

2018-20 Propane Equipment Catalog



Serving the Propane Industry since 1963.

Ohio
800 537 7518

Kentucky
800 448 9504

Indiana
800 662 3252

Missouri
800 821 3878

Minnesota
800 328 6291



Shipped fast. Shipped right. Hassle free.



Residential + Fleet

Bergquist propane veterans are field-trained and factory-trained. We've experienced retail, plant and distribution missions and know what it takes to succeed. In **Bergquist 2018-20** we bring you the finest products from the world's most innovative manufacturers. At Bergquist, we are dedicated to the safe and economical use of propane. And, to all our friends and customers, we promise to give you the service you deserve. Please call us with any questions at 1 800 537 7518.



ME57EXTHD
Page 135



988HP-05
Page 9



ME85OSS-8
Page 134



Excelsa-Flo



Kosan+LINE



cavagna group

CORKEN

MARPAC

Apollo

Jomar VALVE

Blue Moon

Schneider Electric

GASLOG

Mr. Heater

Blackmer

BALDOR • RELIANCE

Hannay Reels

Sumter Coatings

Chase Fitters

MANCHESTER TANK SINCE 1908

Plant

MEGR1627
Page 33



ME990S-3F
Page 92



6902900118
Page 96



Product Specialists are standing by 1 800 537 7518

Product	Contact Person	Extension
Anodes Cathodic Protection	Gary Bozigar	1205
Baldor Motors	Joe Vitt	4204
Blackmer	Dave Leonard	3202
Broilmaster	Dale Aldrich	1214
Carburetion/Conversion	Dale Aldrich	1214
Cavagna	Don Heller	1204
Chicago Fittings (X-Riser)	Don Heller	1204
Continental / Plastic Fittings	Ron Coons	2202
Corken	Richard Constant	2204
Decals / Signs	Joe Vitt	4204
Dispensers	Don Heller	1204
Empire/White Mountain Hearth	Richard Constant	2204
Enerco/Mr. Heater	Mike Kelley	1201
Flame Engineering	Mike Kelley	1201
Gastite	Joe Vitt	4204
Gauges /Leak Testing Systems	Gary Bozigar	1205
Hannay Reels	Tom Schlenger	3200
Industrial Hoses	Dave Leonard	3202
Jurisdictional Systems	Ron Coons	2202
Krug Pump-out Products	Gary Boziger	1205
L.B. White Agricultural Heaters	Mick Walsh	5204
L.B. White Construction Heaters	Mick Walsh	5204
Manchester Cylinders	Gary Bozigar	1205
MEC	Don Heller	1204
Modine	Gary Bozigar	1205
Neptune Liquid Meters	Dave Leonard	3202
Personal Protective Equipment	Gary Bozigar	1205
Regulators - Commercial / industrial	Ron Coons	2202
Rinnai	Dale Aldrich	1214
Sensus Vapor Meters / Regulators	Ron Coons	2202
Sumter Coatings	Matt Collins	5202
Tank Anchoring Equipment	Gary Bozigar	1205
Tank Monitoring Equipment	Joe Vitt	4204
Temporary Heat	Mick Walsh	5204
Trenchers	Tom Schlenger	3200
Truck/Plant Builders	Dave Leonard	3202
Vaporizers	Dave Leonard	3202

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



Dale Aldrich
x1214



Gary Bozigar
x1205



Matt Collins
x5202



Richard Constant
x2204



Ron Coons
x2202



Mike Kelley
x1201



Don Heller
x1204



Dave Leonard
x3202



Tom Schlenger
x3200



Joe Vitt
x4204



Mick Walsh
x5204

1. Regulators

Accessories 11
 Commercial/Industrial Regulators 28-37
 Line Regulators 18-21
 Pigtails & Hogtails 10
 POL Tee Blocks and Checks 40-41
 Residential Regulators 6-9, 12-17
 Single Stage (Grill) Regulators 22-27, 38-39



2. Tubing, Fittings, Appliance/Flexible Connectors & Risers

Aluminum Tubing 51
 Appliance Connectors 57
 Copper Tubing 51
 Corrugated Stainless Steel Tubing (CSST) 58-60
 Dielectric Items 49-50
 Extra Heavy (Schedule 80) Black Pipe and Black Pipe Fittings 45-46
 Flare Fittings (Brass) 42-43
 Flex Connectors and Liquid Y Strainers 47
 Plastic Tubing 52
 Plastic Fittings and Accessories 52-53, 56
 Reinforced Thermoplastic Pipe (RTP) 57
 Risers 54-55
 Standard (Schedule 40) Black Pipe and Black Pipe Fittings 44
 Steel Pipe/Swivel Fittings 48



3. Valves

Actuators and Accessories 97-99
 Angle Valves 68-69
 Back Check Valves 108, 141
 Ball Valves 61-67
 Bobtail Hose End Valves, Adapters and Swivel Connectors 132-136
 Cylinder Valves and Accessories 71-73



Emergency Shutoff Valves (ESV) 100-102
 Excelsa-Flange 120-131
 Excess Flow Valves 106
 Globe Valves 70
 Internal Valves 78-96
 Liquid Flow Indicators 103-105
 Low Emission Transfer Valves 137-140
 Relief Valves and Covers 109-119
 Tank Valves 74-75

4. Float Gauges, Pressure Gauges & Remote Tank Monitors

ASME Float Gauges 145-147
 Centeron (Schneider Electric) 152
 DOT Float Gauges 145-147
 Forklift Float Gauges 143
 Gaslog (Silicon Controls) 150-151
 Liquid Level Gauges (Bleeder Valves) 148
 Pressure Gauges 149
 Replacement Dials 144
 TankCheck Sensor 151

5. Hoses

Bobtail Hoses 154
 CGA 555 Adapters 163
 High Pressure Hoses 153
 Hose Barb Fittings, Ferrules & Crimping Tool 157-159
 Low Pressure Hoses 156
 Motor Fuel Hoses 155
 Needle Valves & Brass Fittings 162
 Rubber Flex Connectors 153
 Transport & Facility Hoses 160

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

6. Pumps & Compressors

Bypass Valves 176-180

Compressors 181, 185

Dispenser Pumps 164-172

Motors 182-184

Plant Pumps 173

Tank Evacuation Equipment 186

Truck Pumps 174-175

7. Meters, Registers & Printers

Electronic Registers 190-192

Liquid Meters 187

Mechanical Registers 188-190

Vapor Meters 193

Printer 192

8. Reels & Reel Parts pgs. 194-199

9. Carburetion Equipment pgs. 200-201

10. ACME Adapters, Caps and Couplings pgs. 202-209

11. Paint, Decals & Signage pgs. 210-215

12. Cylinders

Cylinders 216-217

Cylinder Cages 222-223

Cylinder Equipment and Repair 218-221

13. Dispensers

Autogas Dispensers 228-229

Bergquist Better Dispensers (Cylinders) 224-225, 226-227

Dispenser Nozzles & Filling Adapters 231-235

Filters 236

Scales 230



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



14. Tools, Test Equipment and Service Truck Items

Cathodic Protection 248
 Flaring and Tube Cutters 237
 Lock Caps and POL Locks 252
 Manometers 241
 Methanol Equipment 251
 Pilot Orifices and Plugs 257-258
 Serviceman's Tools 238-240, 247, 256
 Tank Transportation 250
 Test Equipment 242-246, 249
 Trenchers 253

15. Safety Equipment

Chock Blocks 262
 Fire Extinguishers 261
 Gas Detectors 264
 PPE 259-260
 Reflector Triangles 262
 Smart Interlock Technology 263
 Thermometers 262
 Wood Safety Plugs 261

16. Outdoor and RV Accessories

Adapter Tees 268
 Brass Fittings 272
 Camping Accessories 270
 Camping Hoses 267
 Gas Outlet Boxes 266
 POL Fittings 268
 QCC1 Fittings 271
 Quick Connectors 265, 269
 Torches 273

17. Vaporizers pgs. 274-275

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excela-Flo First-Stage Residential Regulators

(Cont. on next page)



bergquistinc.com

MEGR-1122H Series: Offers a compact first stage regulator design perfect for tight applications such as underground tank domes. They feature an adjustment range from 9-12 PSIG (factory set @ 10 PSIG), stainless steel internal components, fluorocarbon (FKM) seat discs, molded lip fabric reinforced diaphragms and large aluminum precision machined orifice to minimize freeze ups while providing superior downstream regulation and maximum corrosion resistance against weather or contaminated gas.



MEGR-1122H

All MEC first stage regulators are red indicating high outlet pressure. First stage regulator vents have 3/4" FNPT tapped ports and E-Z Grip screens located over the outlet. Both the MEGR-1122H and the MEGR-1622H series offer optimal relief performance that well exceeds UL test requirements providing double failure overpressure protection when used with MEC MEGR-1622 & MEGR-1652 Series Second Stage regulators. All MEC Excela-Flo domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

Excela-Flo



MEGR-1622H Series: Offers all of the same features as the compact MEGR-1122H Series in a full size version. Our full size MEGR-1622H Series has a large fabric reinforced diaphragm for superior downstream regulation, heavy duty wrench flats, and a large 3/4" FNPT tapped drip lip vent to help prevent relief vent blockage.



MEGR-1622H

Type: First Stage
 Max. Inlet Pressure: 250 PSIG
 Exterior Finish: Red Powder Coat
 Orifice Size: .15" (Compact) & 7/32" Full
 Diaphragm: Fabric Reinforced NBR
 Molded Lip O-Ring Bonnet/ Body Seal
 Relief Type: Internal Relief - Spring Loaded
 Bonnet / Body Material: Die Cast Aluminum
 Seat Material: Fluorocarbon (FKM)
 Listings: cUL_{US} / UL 144
 Mounting Holes: Standard 3-1/2" Center
 Pressure Taps: #54 Orifice 1/8" FNPT Plugged (2)
 Relief Travel Stop: Molded in Adjustment
 Cap -Gray (Compact), Black (Full Size)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Excela-Flo First-Stage Residential Regulators

(Continued)

These first stage F. POL tee inlet regulators are used to reduce LP gas tank pressures for a second stage regulator (normally 10 PSIG) in a multiple tank manifold installation without adapters or tees. All MEC first stage regulators are red indicating high outlet pressure. Compact First stage regulator vents have 3/8" FNPT tapped ports and E-Z Grip screens located over the outlet. The MEGR-1222H series offers optimal relief performance that well exceeds UL test requirements providing double failure overpressure protection when used with MEC MEGR-1622, MEGR-1642 & MEGR-1652 Series Second Stage regulators. All MEC Excela-Flo domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

MEGR-1222HT



MEGR-1222H



MEC Excela-Flo First-Stage Residential Regulators

Part No.	Type	Capacity in BTU/H LPG(1)	Inlet	Outlet	Outlet Adj. Range (PSI)	Outlet Set Point (PSI)
MEGR-1122H-AAJ	Compact	1,000,000	1/4" FNPT	1/2" FNPT	8-12	10
MEGR-1122H-AAJXA(2)	Compact	1,000,000	1/4" FNPT	1/2" FNPT	8-12	10
MEGR-1222H-BGF	Compact	1,000,000	F.POL	1/2" FNPT	9-12	10
MEGR-1222H-BGFXA(2)	Compact	1,000,000	F.POL	1/2" FNPT	9-12	10
MEGR-1222HT-BGF	Compact	1,000,000	F.POL/Tee	1/2" FNPT	9-12	10
MEGR-1252H-BGF	Compact - Back Mount	1,400,000	F.POL	1/2" FNPT	9-12	10
MEGR-1252H-BGFXA(2)	Compact - Back Mount	1,400,000	F.POL	1/2" FNPT	9-12	10
MEGR-1252H-BGJ	Compact - Back Mount	1,500,000	F.POL	3/4" FNPT	9-12	10
MEGR-1252H-BGJXA(2)	Compact - Back Mount	1,500,000	F.POL	3/4" FNPT	9-12	10
MEGR-1222H-BGJ	Compact	1,700,000	F.POL	3/4" FNPT	9-12	10
MEGR-1222H-BGJXA(2)	Compact	1,700,000	F.POL	3/4" FNPT	9-12	10
MEGR-1622H-BGK	Full Size	2,100,000	1/2" FNPT	1/2" FNPT	4-6	5
MEGR-1622H-HGK	Full Size	2,200,000	F.POL	1/2" FNPT	4-6	5
MEGR-1622H-JGK	Full Size	2,650,000	F.POL	3/4" FNPT	4-6	5
MEGR-1622HT-HGJ	Full Size	2,300,000	F.POL/Tee	1/2" FNPT	9-12	10
MEGR-1622HT-JGJ	Full Size	2,750,000	F.POL/Tee	3/4" FNPT	9-12	10
MEGR-1622H-BGJ	Full Size	2,200,000	1/2" FNPT	1/2" FNPT	8-12	10
MEGR-1622H-DGJ	Full Size	2,500,000	3/4" FNPT	3/4" FNPT	8-12	10
MEGR-1622H-HGJ	Full Size	2,300,000	F.POL	1/2" FNPT	8-12	10
MEGR-1622H-JGJ	Full Size	2,750,000	F.POL	3/4" FNPT	8-12	10

(1) Based on 30 PSIG inlet pressure and 20% droop

(2) Indicates vent orientation opposite taps

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Kosan+ First-Stage Residential Regulators

(Cont. on next page)



988HP-04

A first-stage regulator reduces the high inlet pressure from the tank or cylinder to 10psi, the rate of flow of a second stage regulator. The 984 HP compact regulator is designed for both Type A and Type C outside installations. The correct mounting position is with the vent-hole angled down. The standard 984 HP regulator has the vent-hole facing in line with the outlet fitting.



988HP-07

First-Stage Regulator
Technical Specifications:
 Body and cover: aluminum
 Diaphragm: reinforced
 Supplying pressure: 25-250 PSIG
 Cover screws: stainless steel
 Inlet fitting screws: stainless steel
 Gas type: propane
 Setting point: inlet pressure
 100 PSI, 140,000 Btu, outlet
 pressure 10 PSI
 Provided flows: flow based on 25
 PSI (1,725 bar) inlet pressure
 and 20% drop (in accordance
 with UL 144 standard).
 Regulator specifications: see
 following table.



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

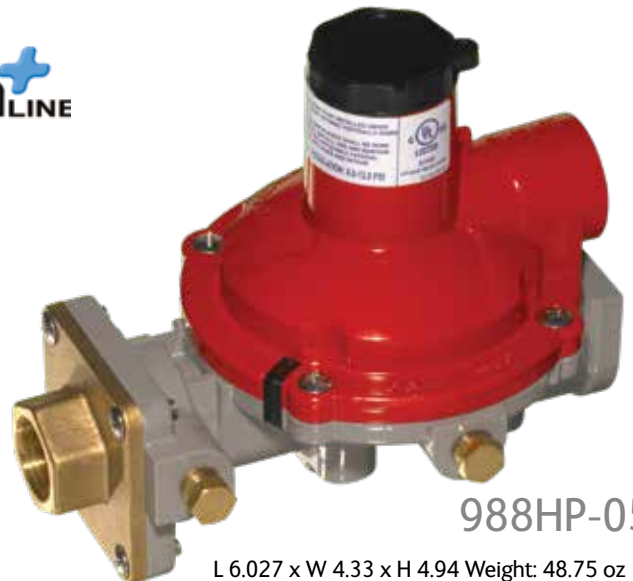
Kosan+ First-Stage Residential Regulators

(Continued)



984HP-04

L4.881 x W4.333 x H3.917 Weight: 31.375 oz



988HP-05

L 6.027 x W 4.33 x H 4.94 Weight: 48.75 oz

Cavagna Kosan+ First-Stage Residential Regulators

Type Number	Capacity BTU/HR Propane	Inlet Connection	Outlet Connection	Outlet Adjustment Range	Outlet Pressure Setting	Suggested Mounting Bracket
984HP-04	1,000,000	1/4" FNPT	1/2" FNPT	No Adjustment	10 psi	P100L
984HP-05	1,000,000	FPOL		No Adjustment	10 psi	
988HP-07	2,000,000	1/2" FNPT		4-6 psi	5 psi	
988HP-08		FPOL				
988HP-09	2,250,000			3/4" FNPT		
988HP-04	2,100,000	1/2" FNPT	1/2" FNPT	8-12 psi	10 psi	
988HP-01	2,400,000	3/4" FNPT	3/4" FNPT			
988HP-05	2,100,000	FPOL	1/2" FNPT			
988HP-06	2,250,000		3/4" FNPT			

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

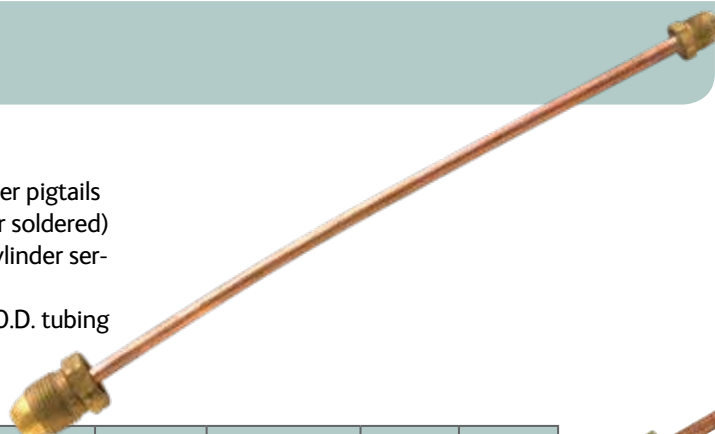
Hogtails/Pigtails



bergquistinc.com



Copper pigtails
(silver soldered)
for cylinder service.
1/4" O.D. tubing



Copper hogtails
(silver soldered) for
bulk tank service.
3/8" O.D. tubing

Pigtails

Manufacturer	Part No.	Length Inches	Connection	POL Hex	Nipple			
MEC	ME1660-20	20"	POL X POL	1 1/8"				
	ME1660-30	30"						
	ME1660-36	36"						
	ME1660-48	48"						
Cavagna	30-A-190-0008	48"						
MEC	ME1661-20	20"	POL X 1/4" Inv. FL.		Long			
	ME1661-30	30"						
	ME1661-36	36"						
	ME1662-12	12"						
ME1662-20	20"							
Cavagna	30-A-190-0003	20"		POL X POL				
MEC	ME1662-30	30"						
	ME1662-36	36"						
	ME1662-48	48"						
Cavagna	30-A-190-0005	48"						
MEC	ME1663-20	20"	POL X 1/4" Inv. FL.	7/8"				
Cavagna	30-A-190-0006	20"						
MEC	ME1663-30	30"						
	ME1663-36	36"						
Cavagna	30-A-190-0007	36"						
MEC	ME1663-48	48"	POL X POL		Short			
	ME1664-12	12"						
Cavagna	30-A-190-0004	12"						
MEC	ME1669-06	6"	POL X 1/4" MNPT					
	ME1669-12	12"						
Cavagna	30-A-190-0001	12"						
MEC	ME1669-20	20"						
Cavagna	30-A-190-0002	20"						
MEC	ME1679D-12	12"	POL X POL		Long			
	ME1679-48	48"						
	ME1680LD-12	12"						

Hogtails

Part Number	Length Inches	Connection	POL Hex	Nipple
ME 1680-06	6"	POL x POL	7/8"	Short
ME 1680-12	12"			
ME 1680-20	20"			Long
ME 1680L-20	20"			
ME 1684-12	12"	POL X 1/2" MNPT		Short
ME 1689 -06	6"	POL x 1/4" MNPT		
ME 1689-12	12"			

Flexible Pigtails

Part No	Connection	Length Inches
MER401-15	MPOL x 1/4" I.F. with excess flow POL	15"
MER401-20		20"
MER401-24		24"
MER401-30		30"
MER401-36		36"
MER401-48		48"
MER401-60		60"
MER425-20	QCC1 x 1/4" I.F. Green Nut 200M BTU	20"
MER425-24		24"
MER425-36		36"
MER425-48		48"
MER425 -60	QCC1 x 1/4" MNPT Green Nut 200M BTU	60"
MER426-20		20"

I.F. = Inverted Flare
QCC1 = Type 1, Plastic Nut

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Regulator Vent Assemblies, Regulator Mounting Brackets/Regulator Covers



Vent Assemblies ME900-6

Vent assemblies allow you to change the vent direction, either on the regulator, or piped away to meet codes and regulations. Vent stabilizers are also available.



MEC FLEX-VENT



The MEC Flex-Vent provides a safe and easy solution to vent LP Gas regulators away from openings, sources of ignition or other potential fire hazards. Meets all requirements of the new flexible material allowance in the 2011 NFPA-58, section 5.8.3.1 (3).

Features:

- Durable hose constructed of flexible PVC material suitable for use with LP Gas vapor
- UV stable for maximum resistance to outdoor exposure
- 3/4" NPT swivel inlet for easy installation
- Standard 90° vent assembly with screen
- Mounting clamps and coated masonry screws supplied
- Crimped ends for maximum durability

Part No.	Description
Standard Lengths	
ME960-48	Flex-Vent Kit - 3/4" MPT X 48"
ME960-72	Flex-Vent Kit - 3/4" MPT X 72"
Other Available Lengths	
ME960-36	Flex-Vent Kit - 3/4" MPT X 36"
ME960-120	Flex-Vent Kit - 3/4" MPT X 120" one end not crimped
ME960-120C	Flex-Vent Kit - 3/4" MPT X 120" both ends crimped



P100L

Regulator Mounting Brackets

Part No	Description
P100L	Regulator bracket aluminum, bow-tie style. Fits Excelsa-Flo, Kosan+, ReGo or Fisher.

Regulator Covers

Part No.	Use With
Rubber Meter Cover	Fits Most second Stage Regulators. (white, heavy duty plastic.) 12"H x 7.5"W x 6"D

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Vent Protector

Part No	Description
13A15	1/8" MNPT vent protector for 1/2" line pressure regulator
13A15-5	3/8" MNPT vent protector for 3/4" line pressure regulator



Rubber Meter Cover

Excela-Flo Second-Stage Residential Regulators

Compact Series



MEGR-1222

Full Size



MEGR-1622

Back Mount



MEGR-1652

MEGR-1222 Series: Offers a compact second stage regulator design perfect for lower BTU applications. They feature an adjustable range from 8-14" WC (factory set @ 11" WC), stainless steel internal components, fluorocarbon (FKM) seat discs, molded lip fabric reinforced diaphragms and large aluminum precision machined orifices providing superior downstream regulation and maximum corrosion resistance against weather or contaminated gas.



MEGR-1622 & MEGR-1652 Series: Offers all of the same features as the compact MEGR-1122 Series but in a full size, high capacity version. Our full size second stage regulators have a large fabric reinforced diaphragm for superior downstream regulation, heavy duty wrench flats, and a large 3/4" FNPT tapped drip lip vent to help prevent relief valve blockage. The MEGR-1622 Series have both the inlet and outlet in line where the MEGR-1652 series have a rear discharge back mount outlet for convenient wall mount applications.



bergquistinc.com

All MEC second stage regulators are green indicating low outlet pressure. Second stage regulator vents have 3/4" FNPT tapped ports and our exclusive E-Z grip screens located over the inlet. All MEC second stage domestic regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator. Both the MEGR-1622 and the MEGR-1652 Series offer optimal relief performance that well exceeds UL test requirements providing double failure overpressure protection (no more than 2 PSI downstream pressure) when used with MEGR-1122H and MEGR-1622H Series First Stage regulators. All MEC Excela-Flo domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

Type: Second Stage
Max. Inlet Pressure: 10 PSIG
Exterior Finish: Green Powder Coat
Orifice Size: .14" (Compact) & 7/32" (Full)
Diaphragm: Fabric Reinforced (NBR) Molded Lip
O-Ring Bonnet/Body Seal
Relief Type: Internal Relief - Spring Loaded
Bonnet / Body Material: Die Cast Aluminum
Seat Material: Fluorocarbon (FKM)
Listings: cUL_{us} / UL 144
Mounting Holes: Standard 3-1/2" Center
Pressure Taps: #54 Orifice 1/8" FNPT Plugged (2)
Relief Travel Stop: Molded In Adjustment Cap
Black (Full Size), Gray (Compact)

Excela-Flo Second-Stage Regulators

Part No.	Type	Capacity in BTU/H LPG(1)	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1222-BAF	Compact	500,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1222-CFF	Compact	800,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1222-DFF	Compact	800,000	3/4" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252-BAF(2)	Compact	500,000	1/2" FNPT	1/2" FNPT	9.5-13	11
MEGR-1252-CFF(2)	Compact	650,000	1/2" FNPT	3/4" FNPT	9.5-13	11
MEGR-1252-DFF(2)	Compact	700,000	3/4" FNPT	3/4" FNPT	9.5-13	11
MEGR-1622-BCF	Full Size	710,000	1/2" FNPT	1/2" FNPT	9-13	11
MEGR-1622-CFFXO(3)	Full Size	1,300,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1622-DFFXO(3)	Full Size	1,300,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1622-CFF	Full Size	1,300,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1622-DFF	Full Size	1,300,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1642-DFF(4)	Full Size	900,000	3/4" FNPT	3/4" FNPT	9-13	11
MEGR-1652-CFF(2)	Full Size	1,000,000	1/2" FNPT	3/4" FNPT	9-13	11
MEGR-1652-DFF(2)	Full Size	1,000,000	3/4" FNPT	3/4" FNPT	9-13	11

(1) Based on 10 PSIG inlet pressure and 20% droop

(2) Indicates back mount configuration

(3) Indicates vent over outlet

(4) Indicates angle mount configuration

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Kosan+ Second-Stage Residential Regulators

Figure A

998LP-03 / 998LP-04



Back Mount

Figure B

998LP-05



Angle Body

Figure C

998LP-09 / 998LP-10



Inline

The 988 Type regulator is designed for Type A outside installations. The correct mounting position is with the vent angled down. The standard 988 LP regulator has the vent-hole facing in line with the inlet fitting. Three other configurations of the inlet and outlet fittings for the 988 LP model include:

Back Mount 998 LP-03 and 998 LP-04 (See Fig. A)

Angle Body 998-LP-05 (See Fig. B)

In line inlet and outlet Flange 998LP-09 and 998LP-10 (See Fig. C)

998LP-03



998LP-05



Kosan+LINE



Kosan+Guardian

INTEGRATED
DIELECTRIC
UNION



998LP-34

Type Number	Capacity BTU/HR Propane	Inlet Connection	Outlet Connection	Outlet Adjustment Range	Outlet Pressure Setting	Suggested Mounting Bracket	Body Configuration	
988LP-03	800,000	1/2" FNPT	1/2" FNPT	9 - 13" WC	11" WC	P100L	Straight Through	
998LP-22	1,000,000		3/4" FNPT					
998LP-01	1,400,000							Angle Body
998LP-02								
998LP-05	920,000	Back Mount						
998LP-03	1,000,000					1/2" FNPT		
998LP-04			3/4" FNPT					
998LP-10	2,300,000		3/4" FNPT			N/A	Inline	
998LP-09			1" FNPT					1" FNPT
Kosan+ Guardian								
988LP-24	800,000	1/2" NPT	1/2" NPT	9 " to 13" W. C.	11" W. C.	P100L	Compact Second Stage	
998LP-40	1,000,000		3/4" NPT				3/4" NPT LAT	Second Stage
998LP-41 ¹	1,400,000							
998LP-31								
998LP-32	920,000	3/4" NPT	3/4" NPT 90°				Second Stage Angle 90°	
998LP-35								
998LP-33								1,000,000
998LP-34	3/4" NPT							
¹ Vent hole in line with outlet fitting								

¹ Vent hole in line with outlet fitting

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excela-Flo Integral Two-Stage Residential Regulators



bergquistinc.com

Excela-Flo



MEGR-1232



MEGR-1232T-HBFXA

These integral two-stage regulators combine the first and second stage regulator set-up into one convenient unit converting tank pressure to 11" WC. All MEC integral two-stage domestic regulators are gray indicating low outlet pressure. Integral two-stage regulators are recommended for installations with short piping distances, but provide the same advantages of two-stage regulation with a single unit. All MEC integral two-stage regulator vent have tapped ports (7/16" -24-First Stage) (3/4" FNPT - Second Stage) and our exclusive E-Z Grip screens located over the outlet. Both the MEGR-1232 and MEGR-1632 series offer optimal relief performance that well exceeds UL test requirements providing over pressure protection of no more than 2 PSI downstream pressure. MEC Excela-Flo integral two-stage domestic regulators feature a 25 year recommended replacement life, our exclusive Tri-Tap™ (tank, 10 PSI, 11" WC) pressure port system and tear away leak check adhesive sticker.

Part No.	Type	Capacity in BTU/H LPG(1)	Inlet	Outlet	Outlet Adj. Range	Outlet Set Point
MEGR-1232-BFF	Compact	450,000	1/4" FNPT	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1232-BFFXA(2)	Compact	450,000	1/4" FNPT	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1232-HBF	Compact	450,000	F.POL	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1232-HBFXA(2)	Compact	450,000	F.POL	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1232T-HBF	Compact	450,000	F.POL/Tee	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1232T-HBFXA(2)	Compact	450,000	F.POL/Tee	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1232-HFF	Compact	625,000	F.POL	3/4" FNPT	9.5-13 WC	11 WC
MEGR-1232-HFFXA	Compact	625,000	F.POL	3/4" FNPT	9.5-13 WC	11 WC
MEGR-1232T-HFF	Compact	625,000	F.POL/Tee	3/4" FNPT	9.5-13 WC	11 WC
MEGR-1232T-HFFXA	Compact	625,000	F.POL/Tee	3/4" FNPT	9.5-13 WC	11 WC
MEGR-1632-BCF	Full Size	700,000	1/4" FNPT	1/2" FNPT	9-13 WC	11 WC
MEGR-1632-BCFXA(2)	Full Size	700,000	1/4" FNPT	1/2" FNPT	9-13 WC	11 WC
MEGR-1632-HCF	Full Size	700,000	F.POL	1/2" FNPT	9-13 WC	11 WC
MEGR-1632-HCFXA(2)	Full Size	700,000	F.POL	1/2" FNPT	9-13 WC	11 WC
MEGR-1632T-HCF	Full Size	700,000	F.POL/Tee	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1632T-HCFXA(2)	Full Size	700,000	F.POL/Tee	1/2" FNPT	9.5-13 WC	11 WC
MEGR-1632H-JFF	Full Size	900,000	F.POL	3/4" FNPT	9-13 WC	11 WC
MEGR-1632H-JFFXA(2)	Full Size	900,000	F.POL	3/4" FNPT	9-13 WC	11 WC
MEGR-1632T-JFF	Full Size	900,000	F.POL/Tee	3/4" FNPT	9.5-13 WC	11 WC
MEGR-1632T-JFFXA(2)	Full Size	900,000	F.POL/Tee	3/4" FNPT	9.5-13 WC	11 WC
MEGR-1632-CFF	Full Size	950,000	1/4" FNPT	3/4" FNPT	9-13 WC	11 WC
MEGR-1632-CFFXA(2)	Full Size	950,000	1/4" FNPT	3/4" FNPT	9-13 WC	11 WC
MEGR-1232E-BBH(2)	Compact	550,000	1/4" FNPT	1/2" FNPT	1-2.2 PSI	2 PSI
MEGR-1232E-BBHXA(2)	Compact	550,000	1/4" FNPT	1/2" FNPT	1-2.2 PSI	2 PSI
MEGR-1632E-HCH(2)	Full Size	1,025,000	F.POL	1/2" FNPT	1-2.2 PSI	2 PSI
MEGR-1632E-HCHXA(2)	Full Size	1,025,000	F.POL	1/2" FNPT	1-2.2 PSI	2 PSI
MEGR-1632E-JFH(2)	Full Size	1,050,000	F.POL	3/4" FNPT	1-2.2 PSI	2 PSI
MEGR-1632E-JFHXA(2)	Full Size	1,050,000	F.POL	3/4" FNPT	1-2.2 PSI	2 PSI

(1) Based on 30 PSIG inlet pressure and 20% droop

(2) Indicates regulator vents opposite pressure tap ports

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Kosan+ Integral Two-Stage Residential Regulators



The integral 2-stage regulator uses two regulators in one body to regulate the inlet pressure of the gas from the tank or cylinder directly to the inlet pressure of the appliance. The 988TW regulator is designed for Type B outside installations. The correct mounting position is with the vent angled down. The standard 988TW regulator has the vent-hole facing in line with the outlet fitting.

Integral 2-Stage Regulator Technical Specifications:
 Body and cover: aluminum
 Diaphragm: reinforced
 Supplying pressure: 25-250 PSIG
 Cover screws: stainless steel
 Inlet fitting screws: stainless steel
 Gas type: propane
 Setting point: inlet pressure
 10 PSI, 140,000 Btu, outlet pressure: 2 PSIG
 Provided flows: flow based on 10 PSI (0.69 bar) inlet pressure and 20% drop (in accordance with UL 144 standard).



L 7.055 x W 5.657 x H 4.964 Weight: 54.875 oz

Kosan+ Integral Two-Stage Residential Regulators

Part No.	Capacity BTU/HR	Inlet Connection	Outlet Connection	Outlet Adjustment Range	Outlet Pressure Setting
988TW-15	750,000	1/4" FNPT	1/2" FNPT	9-13 WC	11 WC
988TW-16*					
988TW-17		FPOL			
988TW-18*					
998TW-11	1,400,000	1/4" FNPT	3/4" FNPT	1-2.2 PSI	2 PSI
998TW-12*					
998TW-13		FPOL			
998TW-14*					
998TW-23		1/4" FNPT			
* Vent opposite test taps					

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excela-Flo 2-PSI Service Regulators



MEGR-1622E

These 2 PSI service regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to a nominal 2 PSI. 2 PSI service regulators are used in conjunction with an LPG line regulator either at the indoor appliance or a remote manifold distribution header inlet. All MEC 2 PSI service regulators are green with white adjustment caps. Our 2 PSI service regulator vents have 3/4" FNPT tapped vents and our exclusive E-Z grip screens located over the inlet. All MEC 2 PSI service regulators feature a stainless steel inlet filter screen to reduce debris from passing through the regulator. Both the MEGR-1622E and MEGR-1652E series offer optimal relief performance that well exceeds UL test requirements. All MEC Excela-Flo domestic regulators feature a 25 year recommended replacement life and our exclusive tear away leak check adhesive sticker.

MEGR-1622E Series: Offers a full size high capacity molded lip fabric reinforced diaphragm, stainless steel internal components, fluorocarbon (FKM) seat discs, precision machined aluminum orifices, and an adjustment range from 1-2.2 PSI (factory set @ 2 PSI) providing superior downstream regulation and maximum corrosion resistance against weather or contaminated gas.

MEGR-1652E Series: Offers all of the same features as the MEGR-1622E Series but with a rear discharge back mount outlet for convenient wall mount applications.

Type: 2 PSI
 Max. Inlet Pressure: 10 PSI
 Exterior Finish: Green Powder Coat
 Orifice Size: 7/32"
 Seat Material: Fluorocarbon (FKM)
 Diaphragm: Fabric Reinforced (NBR) / Molded Lip
 O-Ring Bonnet/Body Seal
 Relief Type: Internal Relief - Spring Loaded
 Bonnet / Body Material: Die Cast Aluminum
 Listings: cUL_{us} / UL 144
 Mounting Holes: Standard 3-1/2" Center
 Pressure Taps: #54 Orifice 1/8" FNPT Plugged (2)
 Relief Travel Stop: Molded in Adjustment Cap - White

MEC Excela-Flo 2-PSI Service Regulators

Part No.	Type	Capacity in BTU/H LPG ⁽¹⁾	Inlet	Outlet	Outlet Adj. Range (PSI)	Outlet Set Point (PSI)
MEGR-1622E-BCH	Full Size	1,100,000	1/2" FNPT	1/2" FNPT	1-2.2	2
MEGR-1622E-DCH	Full Size	1,400,000	3/4" FNPT	3/4" FNPT	1-2.2	2
MEGR-1652E-DFH⁽²⁾	Back Mount	1,300,000	3/4" FNPT	3/4" FNPT	1-2.2	2

(1) Based on 10 PSIG inlet pressure and 20% droop.

(2) Indicates back mount configuration.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

998TP regulators are designed for Type C installations. The correct mounting position is with the vent angled down. The standard 998TP regulator has the vent-hole facing in line with the outlet fitting. There is a special configuration of inlet and outlet fittings for the 998 TP model:

Back Mount 998 TP-07 (See Fig. A)

2-PSI Regulator Technical Specifications:
 Body and cover: aluminum
 Diaphragm: reinforced
 Supplying pressure: 5-15 PSIG
 Cover screws: stainless steel
 Inlet fitting screws: stainless steel
 Gas type: propane
 Setting point: inlet pressure 10 PSI, 140,000 Btu, outlet pressure: 2 PSIG
 Provided flows: flow based on 10 PSI (0.69 bar) inlet pressure and 20% drop (in accordance with UL 144 standard).

Figure A



Kosan+ 2-PSI Service Regulators

998TP-07



L 6.692 x W 4.33 x H 4.94 Weight: 41.625 oz

998TP-08



L 7.055 x W 5.657 x H 4.964 Weight: 57.5 oz



998TP-25



INTEGRATED
DIELECTRIC
UNION



Kosan+ 2-PSI Service Regulators

Part No	BTU Capacity	Inlet	Outlet	Outlet Adjustment Range PSIG	Outlet Pressure Setting, PSIG	Description
988TP-22	700,000	1/2" FNPT	1/2" FNPT	Non Adjustable	2	
998TP-06	1,680,000	3/4" FNPT	3/4" FNPT	1 - 2.2		
998TP-07	1,500,000		3/4 " FNPT			
998TP-08	1,460,000	1/2" FNPT	1/2" FNPT			
Kosan+ Guardian Integrated Dielectric Union						
988TP-25	700,00	1/2" NPT	1/2" NPT	Non Adjustable	2	2 PSI Compact Body
998TP-36	1,680,000	3/4" NPT	3/4" NPT	1 TO 2.2		2 lb.
998TP-37	1,500,000		3/4" NPT 90°			2 lb. Backmount
998TP-38	1,460,000	1/2" NPT	1/2" NPT			2 lb.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



TYPE 90/2 PSI



The Type 90 OARA pressure regulator is manufactured to supply the highest performance as both a line pressure regulator and as gas appliance regulator.

Features:

Precise regulating control of both full flow and of tiny pilot flows.

All models are approved by IAS, in accordance with the two different standards.

Manufactured in order to fulfill utility specifications for usage in residential, commercial and industrial applications.

Materials of all component parts are carefully selected and corrosion-resistant.

Diaphragm and washer are made of NITRILE RUBBER, which guarantees resistance to combustible gases.

Rubber is selected to work at the following ambient temperatures: -40/205°F (-40/96°C).

Housings are made of rugged die-cast aluminum.

Regulators are supplied with a vent limiter type "0" 3-18 thread 1/8" NPT. In case of diaphragm rupture, gas leakage is limited within ANSI standard levels.

Manufacturing of the regulators in terms of balancing capacity guarantees excellent control of the outlet pressure in case of absence of flow.

Rated inlet pressure	2 PSI (138 MBAR)
Outlet pressure setting	Type 901 7"-9" w.c. Type 902 9"-12" w.c. Type 903 7"-11" w.c. Type 904 7"-11" w.c. Type 905 5"-9" w.c.
Gases	Natural or LP Gas
Code	The four digit code indicate the year and the calendar week, in which the regulator was manufactured (i.e. 1112: in the twelfth week of 2011).
Ambient temperature range	-40/205°F (-40/96°C)
Pipe size NPT	1/2" X 1/2"
Venting	Vent limiter "0" 3-18 thread 1/8" NPT
Emergency exposure limits	65 PSI (4.5 BAR) inlet side only

PRESSURE DROP - 0.64 SP GR GAS EXPRESSED IN CFH (M3/H)

Pressure drop	7.0" psi=17 mbar	1/2 psi=34.5 mbar	3/4 psi=52 mbar	1 psi=69 mbar
Flow rate CFH (m3/h)	359 (10.1)	504 (14.3)	627 (17.7)	719 (20.3)

CAPACITIES BASED ON 1" W.C. PRESSURE DROP FROM SET POINT 0.64 SP GR GAS EXPRESSED IN CFH (M3/H)

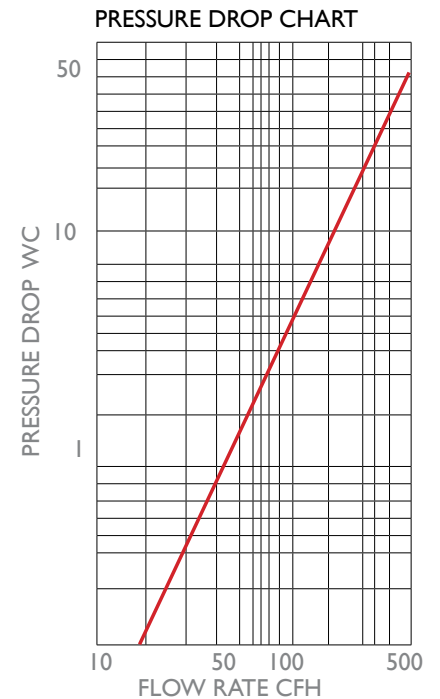
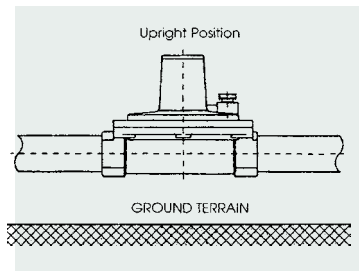
MODEL	Outlet pressure	1/2 psi=34.5 mbar	3/4 psi=52 mbar	1 psi=69 mbar	2 psi=138 mbar	5 psi=345 mbar
90	6" w.c.	160 (4.5)	200 (5.6)	235 (6.6)	285 (8.0)	350 (9.8)
	7" w.c.	155 (4.3)	200 (5.6)	230 (6.4)	280 (7.8)	345 (9.7)
	8" w.c.	155 (4.3)	195 (5.5)	230 (6.4)	270 (7.6)	335 (9.4)
	9" w.c.	145 (4.1)	190 (5.3)	215 (6.0)	260 (7.3)	325 (9.1)
	10" w.c.	135 (3.8)	180 (5.0)	205 (5.7)	245 (6.7)	310 (8.7)
	11" w.c.	125 (3.5)	170 (4.8)	195 (5.5)	235 (6.6)	300 (8.4)
	12" w.c.	125 (3.5)	165 (5.5)	195 (5.5)	230 (6.4)	295 (8.3)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Line Pressure Regulators (cont.)



Line Pressure Regulator Table of Conversion Type 90/2 PSI

Model	Part No.	Pipe Size	Inlet Pressure	Setting	N. G.	L.P.G.
90	44-4-190-0002	1/2"	2 PSI	8"	7"-11" w.c.	-
	44-4-190-0006*	1/2"	2 PSI	7"	-	7"-11" w.c.
	44-4-190-0008*	1/2"	2 PSI	11"	-	9"-12" w.c.
	44-4-190-0004	1/2"	2 PSI	11"	-	7"-11" w.c.
	44-4-190-0013*	1/2"	5 PSI	7"	-	7"-11" w.c.
	44-4-190-0011*	1/2"	5 PSI	8"	7"-11" w.c.	-
	44-4-190-0012*	1/2"	5 PSI	11"	-	7"-11" w.c.

*Special Order



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Line Pressure Regulators (cont.)



bergquistinc.com



TYPE 95/2 PSI



L 5.964 x W 5.551 x H 5.196 Weight: 47.625 oz

The Type 95 OARA pressure regulator is manufactured to supply the highest performance as both a line pressure regulator and as a gas appliance regulator.

Features:

Precise regulating control of both full flow and of tiny pilot flows.

All models are approved by IAS, in accordance with the two different standards.

Manufactured in order to fulfill utility specifications for usage in residential, commercial and industrial applications. Materials of all component parts are carefully selected and corrosion-resistant.

Diaphragm and washer are made of NITRILE RUBBER, which guarantees resistance to combustible gases. Rubber is selected to work at the following ambient temperatures: -40/205°F (-40/96°C).

Housings are made of rugged die-cast aluminum.

Vent limiter is made of brass.

Regulators are supplied with a vent limiter type "0" 6-38 thread 1/8" NPT.

In case of diaphragm rupture, gas leakage is limited within ANSI standard levels.

Manufacturing of the regulators in terms of balancing capacity guarantees excellent control of the outlet pressure in case of absence of flow.

Rated inlet pressure	2 PSI (138 MBAR)
Outlet pressure setting	Type 951 7"-11" w.c. Type 952 7"-11" w.c. Type 951 8"at 200 CFH Type 952 11"at 200 CFH
Gases	Natural or LP Gas
Code	The four digit code indicate the year and the calendar week, in which the regulator was manufactured (i.e. 1112: in the twelfth week of 2011).
Ambient temperature range	-40/205°F (-40/96°C)
Pipe size NPT	3/4" X 3/4"
Venting	Vent limiter "0" 6-38 3/8"NPT
Emergency exposure limits	65 PSI (4.5 BAR) inlet side only

PRESSURE DROP - 0.64 SP GR GAS EXPRESSED IN CFH (M3/H)				
Pressure drop	7.0" psi=17 mbar	1/2 psi=34.5 mbar	3/4 psi=52 mbar	1 psi=69 mbar
Flow rate CFH (m3/h)	359 (10.1)	504 (14.3)	627 (17.7)	719 (20.3)

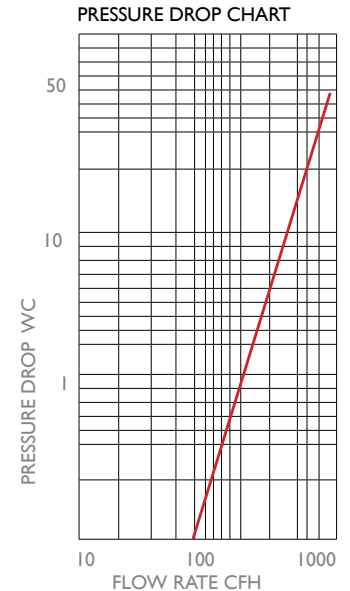
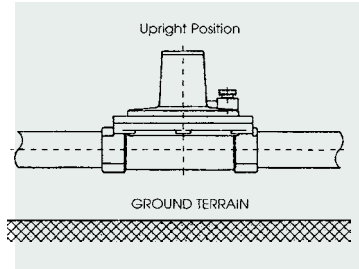
CAPACITIES BASED ON 1" W.C. PRESSURE DROP FROM SET POINT 0.64 SP GR GAS EXPRESSED IN CFH (M3/H)						
MODEL	Outlet pressure	1/2 psi=34.5 mbar	3/4 psi=52 mbar	1 psi=69 mbar	2 psi=138 mbar	5 psi=345 mbar
95	7" w.c.	364 (10.3)	403 (11.4)	447 (12.7)	517 (14.6)	645 (18.3)
	8" w.c.	359 (10.2)	394 (11.2)	447 (12.7)	509 (14.4)	636 (18.0)
	9" w.c.	342 (9.7)	381 (10.8)	430 (12.2)	500 (14.2)	636 (18.0)
	10" w.c.	342 (9.3)	377 (10.7)	403 (11.4)	496 (14.0)	627 (17.8)
	11" w.c.	302 (8.5)	360 (10.2)	372 (10.5)	473 (13.4)	614 (17.8)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Line Pressure Regulators (cont.)



Line Pressure Regulator Table of Conversion Type 95/2 PSI

Model	Part No.	Pipe Size	Inlet Pressure	Setting	N. G.	L.P.G.
95	44-4-290-0002	3/4"	2 PSI	8"	7"-11" w.c.	-
	44-4-290-0003	3/4"	2 PSI	11"	-	7"-11" w.c.
	44-4-290-0010*	3/4"	5 PSI	8"	-	7"-11" w.c.
	44-4-290-0011*	3/4"	5 PSI	11"	-	7"-11" w.c.

*Special Order

Maxitrol Line Pressure Regulator

Part No.	Description
325-3LP	1/2" FNPT LP regulator with vent limiter - 2 lb. inlet, 11" WC outlet
325-5LP	3/4" FNPT LP regulator with vent limiter - 2 lb. inlet, 11" WC outlet
RV47CL	LP and NG appliance regulator, 4" - 10" WC outlet
12A09	1/8" MNPT vent limiter for 325-3LP regulators
12A39	3/8" MNPT vent limiter for 325-5LP regulators
13A15	1/8" MNPT weather cap protector for regulator vent limiter
13A15-5	3/8" MNPT weather cap protector for regulator vent limiter



325 Series



Maxitrol RV47 Series
Appliance Regulator

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excela-Flo Automatic Changeover Regulators



bergquistinc.com

MEGR-175CS61622-BCF Series:
Offers all of the same features as the compact MEGR-175S61222 series but with a full size high capacity second stage regulator option. The full size second stage diaphragm provides superior downstream regulation has heavy duty wrench flats and a large 3/4" FNPT tapped drip lip vent to help prevent relief vent blockage perfect for manifolding larger tanks together such as 420 LB cylinders.

MEGR-175CS61222-BAF

Excela-Flo



MEGR-175CS61222-BAF Series:
Offers a compact two stage regulator option for lower BTU applications such as mobile or seasonal homes. They feature a second stage adjustment from 8-14" WC (factory set @ 11" WC), stainless steel internal components, fluorocarbon (FKM) seat discs, molded lip fabric reinforced diaphragms, and large precision machined aluminum orifices providing superior downstream regulation and maximum resistance against weather or contaminated gas.



These Two Stage Automatic Changeover regulators combine the first and second stage regulator into one unit converting tank pressure to 11" WC. MEC Excela-Flo Automatic Changeover regulators prevent gas outages by switching supply cylinders over to the reserve cylinder automatically when the primary cylinder is near empty. When the primary cylinder is depleted causing the changeover to occur a red indicator will appear signifying the reserve cylinder is now in use and the primary cylinder can be refilled without loss of service.

MEGR-175CS61222 & MEGR-175CS61622 Series Specifications:

Type: Automatic Changeover Two-Stage

Max. Inlet Pressure: 250 PSIG

Exterior Finish: Gold / Gray Powder Coat

Orifice Size: .14" (Compact) & 7/32" (Full)

Seat Material: (NBR) 1st Stage, Fluorocarbon (FKM) 2nd Stage

Diaphragm: Fabric Reinforced (NBR) / Molded Lip O-Ring Bonnet/Body Seal

Relief Type: Internal Relief - Spring Loaded

Bonnet / Body Material: Die Cast Zinc/Plastic 1st Stage Die Cast Aluminum 2nd Stage

Listings: cUL_{US} / UL 144 2nd Stage

Mounting Holes: Standard 3-1/2" Center

Pressure Taps: #54 Orifice 1/8" FNPT Plugged (1)

Relief Travel Stop: Molded in

Adjustment Cap Gray (Compact), Black (Full Size)

MEGR-175CS61622-BCF

Excela-Flo Automatic Changeover Regulators

Part No.	Type	Primary Cylinder Capacity in BTU/H LPG ⁽¹⁾	Auxiliary Cylinder Capacity in BTU/H LPG ⁽¹⁾	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-175CS61222-BAF	Compact	400,000	340,000	1/4" IF (2)	1/2" FNPT	9.5-13	11
MEGR-175CS61622-BCF	Full Size	650,000	570,000	1/4" IF (2)	1/2" FNPT	9-13	11

(1) Based on 30 PSIG inlet pressure and 20% droop

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com



MEGR-900
Z-Mounting Bracket



MEGR-RVB
L-Mounting Bracket



MEGR-862
Automatic Changeover
Regulator Cover for MEGR-253
& MEGR-291 Series

The Model MEGR-253 Automatic Changeover Regulator automatically redirects LP gas vapor flow from an empty service cylinder to a reserve cylinder, without interruption of service. It features an easy to read green indicator which changes to red when the service cylinder needs to be refilled. The MEGR-253 and MEGR-293H Series regulators meet UL, RVIA and NFPA requirements.

Excela-Flo



Features:

- Type: Two Stage
- Max Inlet Pressure: 250 PSI
- Inlet Connection: 1/4" Female Inverted Flare
- Outlet Connection: 3/8" FNPT
- Exterior Finish: Raw Zinc / Powder Coat
- Diaphragm: Fabric Reinforced Molded with O-Ring Bonnet / Body Seal
- Diaphragm Type: Internal Relief - Spring Loaded
- Bonnet/ Body Material: Die Cast Zinc
- Listings: ULLISTED / UL 144
- Mounting Holes: 3-1/2" On Center
- Pressure Taps: 1/8" FNPT Plugged

MEGR-253H

High Capacity
Automatic
Changeover
Regulator



MEGR-253

Automatic
Changeover
Regulator



MEC Excela-Flo Automatic Changeover Regulators

Part No.	Description	Primary Cylinder BTU/Hr.**	Reserve Cylinder BTU/ Hr.**	Covers	Mounting Bracket
MEGR-253	2 Stage Auto Changeover Regulator 1/4" Inv. Flare x 3/8" FPT	225,000	150,000	MEGR-862	MEGR-900 or MEGR-RVB
MEGR-253H	High Capacity 2 Stage Auto Changeover Regulator 1/4" Inv. Flare x 3/8" FPT	350,000	200,000		

* Packaged option consists of a plastic clamshell with barcode

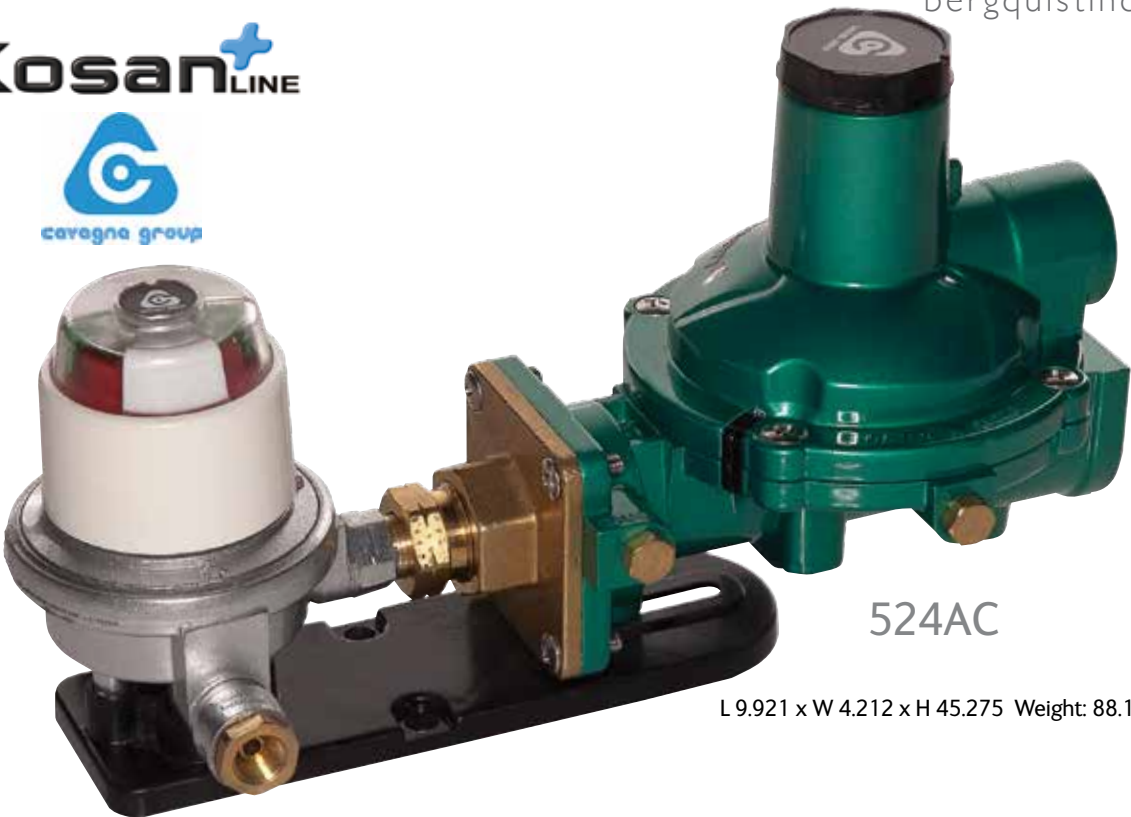
** BTU/H Capacity @ 20% Droop

Note: MEGR-253 and MEGR-253H set point: 100 PSIG Inlet @ 11" WC outlet Flowing @ 30 SCFH Air

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Kosan+ Automatic Changeover Regulators

Continued on next page



524AC

L 9.921 x W 4.212 x H 45.275 Weight: 88.125 oz

Kosan+ Automatic Changeover Regulators

Type Number	Capacity BTU/HR Propane	Inlet Connection	Outlet Connection	Pressure Set Point	Vent Style	Includes
524AC	600,000	1/4" Inv Fl	1/2" FNPT	11" wc	3/4" FNPT	No Accessories
528B	450,000	1/4" Inv Fl	1/2" FNPT	11" wc	3/4" FNPT	



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com



Kosan+ Automatic Changeover Regulators (cont.)

The double stage automatic changeover regulator 524AC, combines an automatic changeover first stage regulator coupled with a second stage regulator, 988 LP. This changeover regulator is used with two DOT cylinders installed side by side and ensures continuous gas flow from the first exhausted cylinder (A) to the second reserve cylinder (B). Because the regulator body is made of zinc alloy, a plastic mounting bracket must be used.

Start-up:

To ensure the automatic changeover and a continuous flow of gas, turn both cylinders' gas valves on at the same time. The changeover from the first to the second cylinder (A to B) will not happen if the valve on the second cylinder is closed.

Reading the changeover indicator:

When both A and B cylinders are full and their valves are opened, the changeover indicator will show green. (See Fig. 1) The arrow on the changeover's knob shows which cylinder (A) is supplying gas. When that cylinder's pressure reaches less than 10 PSI, the automatic changeover to the second cylinder (B) "automatically" takes place and gas continues to flow. At that point, the indicator will then show red. (See Fig 2)

Changing cylinders:

Close the valve on cylinder A and turn the automatic changeover knob 180° to the right. (See Fig. 3a) If the reserve cylinder B is full and its valve is open, the automatic changeover indicator will show green. (See Fig. 3b) Remove the empty cylinder. Position a new full cylinder and open the valve. (See Fig. 3c)

Automatic Changeover Regulator

Technical Specifications:

Body and cover: ZAMAK

Diaphragm: reinforced

Supplying pressure: 25-250 PSIG

Cover screws: stainless steel

Fittings: brass

Gas type: propane

Setting point: inlet pressure

100 PSI, 140,000 Btu, outlet pressure: 11 WC

Provided flows: flow based on 25

PSI (1.725 bar) inlet pressure and 20% drop (in accordance with UL 144 standard).

Regulator specifications:

see table previous page.

Figure 1

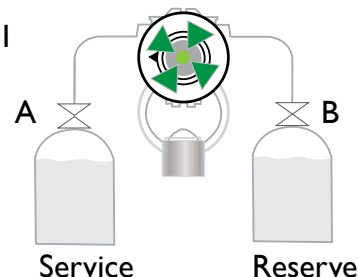


Figure 2

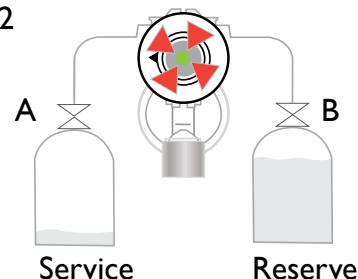


Figure 3a

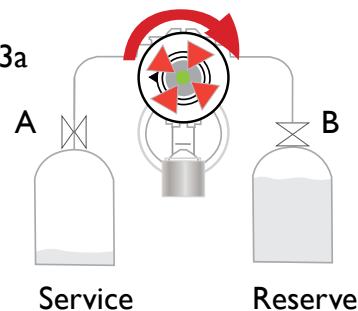


Figure 3b

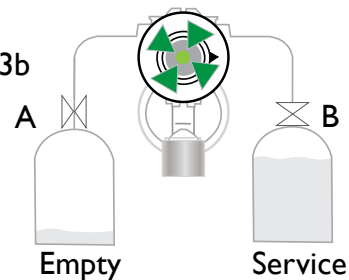
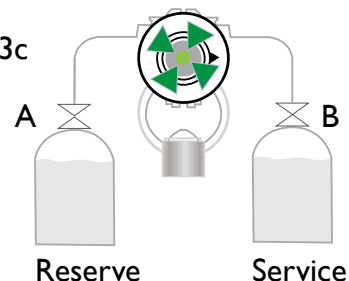


Figure 3c



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Cavagna Two-Stage Type 524AS



TYPE 524AS



Two Stage Type 524AS
 for use on Recreational Vehicles
 160,000 Btu
 POL x 3/8" FPT
 Meets UL 144 requirements

524AS-90
 160,000 Btu
 90° vent
 Hardnose POL with excess flow
 installed in inlet.
 The Type 524AS two-stage
 regulator is mounted directly to the
 tank valve.



Cavagna Automatic Changeover Regulators

924 NRV



924 NRV
 160,000 Btu
 1/4" FIF Inlet
 3/8" FPT Outlet
 Includes mounting bracket
 Come w/90-degree angle
 bracket

924NRV
 Meets UL144
 requirements

924 N
 160,000 Btu
 1/4" FIF Inlet
 3/8" FPT Outlet
 Includes mounting bracket
 Comes w/flat bracket

A combination of the first
 and second stage regulator
 which ensures
 a continuous flow
 of gas. The regulator
 automatically changes to
 the reserve tank when the
 first tank is empty.
 The indicator on the first-
 stage regulator changes
 from green to red to
 indicate the initial tank is
 empty.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



Excela-Flo Compact Intergral Two-Stage Regulator

Regulator Specifications

- Type: Two Stage
- Max. Inlet Pressure: 250 PSI
- Inlet Connection: 1/4" FNPT
- Outlet Connection: 3/8" FNPT
- Exterior Finish: Raw Zinc / Powder Coated
- Diaphragm: Fabric Reinforced Molded with O-Ring Bonnet / Body Seal
- Diaphragm Type: Internal Relief - Spring Loaded
- Bonnet/ Body Material: Die Cast Zinc
- Listings: ULLISTED / UL 144
- Mounting Holes: 3-1/2" On Center
- Pressure Taps: 1/8" FNPT Plugged

MEGR-295
MEGR-291 with
Hard-Nose
Excess FlowPOL

The MEC MEGR-291 two-stage regulators are approved for use in nearly all portable applications and outdoor cooking appliances utilizing low pressure. They feature all zinc body construction, high and low 1/8" NPT pressure tap ports, an integral second stage drip lip vent and optional standard or 90 degree vent locations. The MEGR-291H High Capacity Compact Integral Two Stage Regulator is ideally suited for high demand RV, outdoor appliances, cabins, seasonal homes, gas fire places, water heaters, ranges or other moderate to low demand domestic home installations. (Green bonnet identifies high capacity model).

The MEGR-300 Compact Integral Two Stage 2 PSI Regulator is ideally suited for installations to reduce tank pressure to a nominal 2 PSI outlet pressure. 2 PSI systems typically incorporate a line service regulator within the home that further reduces the 2 PSI system pressure to approximately 11" WC prior to the appliance. (Red bonnet identifies 2 PSI model).

The MEGR-291, MEGR-291H and MEGR-300 Series regulators meet UL, RVIA and NFPA requirements.



MEGR-300
2 PSI Regulator
with Drip Lip Vent



MEGR-291
Compact Regulator
with Drip Lip Vent

MEGR-291H
High Capacity Regulator
with Drip Lip Vent

Part No.	Description	BTU/H LPG @ 30 PSI Inlet*	Accessories
MEGR-291	Compact 2 Stage Regulator 1/4" FNPT Inlet x 3/8" FNPT Outlet	175,000	MEGR-900 (Z-Bracket)
MEGR-298	Compact 2 Stage Regulator 1/4" FNPT Inlet x 3/8" FNPT Outlet - 90° Vent	175,000	
MEGR-295	Compact 2 Stage Regulator HN Excess Flow POL Inlet x 3/8" FNPT Outlet - 90° Vent	175,000	
MEGR-291-20681	Compact 2 Stage Regulator Green Type I QCC Inlet x 3/8" FNPT Outlet	175,000	
MEGR-298-20681	Compact 2 Stage Regulator Green Type I QCC Inlet x 3/8" FNPT Outlet - 90° Vent	175,000	
MEGR-291H	Compact 2 Stage High Capacity Regulator 1/4" FNPT Inlet x 3/8" FNPT Outlet	225,000	
MEGR-298H	Compact 2 Stage High Capacity Regulator 1/4" FNPT Inlet x 3/8" FNPT Outlet - 90° Vent	225,000	
MEGR-295H	Compact 2 Stage High Capacity Regulator HN Excess Flow POL Inlet x 3/8" FNPT Outlet - 90° Vent	225,000	
MEGR-291H-20681	Compact 2 Stage High Capacity Regulator Green Type I QCC Inlet x 3/8" FNPT Outlet	225,000	
MEGR-298H-20681	Compact 2 Stage High Capacity Regulator Green Type I QCC Inlet x 3/8" FNPT Outlet - 90° Vent	225,000	
MEGR-300	Compact 2 Stage 2 PSI Regulator 1/4" FNPT Inlet x 3/8" FNPT Outlet	225,000	MEGR-861 (1st Stage Cover)
MEGR-300-90	Compact 2 Stage 2 PSI Regulator 1/4" FNPT Inlet x 3/8" FNPT Outlet - 90° Vent	225,000	
* Setpoint: 100 PSIG Inlet @ 11" WC Outlet Flowing @ 30 SCFH / Air			MEGR-862 (2nd Stage Cover)

MEGR-291 and MEGR-291H setpoint: 100 PSIG Inlet @ 11" WC Outlet Flowing @ 30 SCFH Air

MEGR-300 setpoint: 100 PSIG Inlet @ 2 PSI Outlet Flowing @ 30 SCFH Air

* BTU/H Capacity @ 20% Droop

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excela-Flo High Pressure Regulators



MEGR-164 Series

The MEGR-164 Series adjustable high-pressure regulators offer a wide selection of available pressure ranges. High pressure regulators are typically used to reduce tank pressure to an intermediate pressure for use by another regulator. They may be used as high pressure regulators on distribution systems when used in conjunction with first-stage downstream regulators.

When equipped with an integral relief valve (MEGR-164SR Series), the regulator may be used as a final-stage regulator on high pressure systems. It may also be used as a first-stage regulator when set at 10 PSIG (0,69 bar) or less. The 1/4"-inch FNPT tapped side outlet can be used to install a pressure gauge or a hydrostatic relief valve. This series contains brass materials that are not compatible with anhydrous ammonia service.

Regulator Specifications

- Type: Adjustable/ PSI
- Max. Inlet Pressure: 250 PSI
- Inlet Connection: 1/2" FNPT or 3/4" FNPT
- Outlet Connection: 1/2" FNPT or 3/4" FNPT
- Exterior Finish: Gray Urethane
- Regulator Spring: Steel
- Stem Guide/Disk Holder: Stainless Steel
- Diaphragm: Fabric Reinforced Nitrile (NBR)
- Bonnet/Body Material: Cast Aluminum
- Vent: Non-Aluminum
- Listings: UL LISTED / UL 144



Part No.	Description	Outlet Pressure Setting (PSI)	Outlet Adjustment Range (PSI)	BTU/H LPG @ 60 PSI Inlet	BTU/H LPG @ 100 PSI Inlet
MEGR-164/33	1/2" FNPT x 1/2" FNPT Adjustable High Pressure Regulator	10	0-30	6,098,000	6,800,000
MEGR-164/35		20	0-30	6,400,000	8,335,000
MEGR-164/36		40	0-60	6,100,000	9,145,000
MEGR-164/222		50	0-125	4,900,000	7,225,000
MEGR-164SR/21	1/2" FNPT x 1/2" FNPT Adjustable High Pressure Regulator w/ Internal Relief Valve	10	0-15	4,675,000	7,825,000
MEGR-164SR/22		15	0-30	3,050,000	4,125,000
MEGR-164SR/23		20	0-30	3,405,000	4,755,000
MEGR-164-6/33	3/4" FNPT x 3/4" FNPT Adjustable High Pressure Regulator	10	0-30	9,150,000	10,875,000
MEGR-164-6/35		20	0-30	10,105,000	12,400,000
MEGR-164-6/36		40	0-60	9,960,000	13,415,000
MEGR-164-6/222		50	35-100	4,575,000	11,890,000

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Kosan+ 94 Series Direct Operated Regulators

TYPE 94HP

The 94 series direct operated regulators are designed for high-pressure service and can be used on either vapor or liquid applications. The outlet pressure ranges from 3 to 100 psig. High-pressure regulators usually reduce tank pressure to an intermediate pressure for use by another regulator. They are also used for final stage service on a particular application, as on high-pressure burners or other medium sized commercial/ industrial applications.

The type 942 HP regulator is an adjustable high-pressure regulator with a wide range of outlet pressures. It is not equipped with a limited relief valve.

The type 948HP regulator is an adjustable high-pressure regulator with a wide range of outlet pressures. It is equipped with a limited relief valve.

Both types are equipped with a 1/4" FNPT side outlet which is normally plugged and provides an opening for an outlet pressure gauge.



L 4.33 x W 4.72 x H 8.26 Weight: 31.375 oz

Technical Specifications:

Body and cover: aluminum

Diaphragm: reinforced

Supplying pressure: 25-250 PSI

Cover screws: stainless steel

Gas type: propane

Provided flows: flow based on inlet pressure 20 psig (1.38 bar) greater than outlet with 20% drop (in accordance with UL 144 standard)

Regulator specifications: see following table

Type	Description	Capacity BTU/hr	Outlet Pressure Setting	Outlet Adjustment Range	Inlet and Outlet Connections
942HP-03	Basic Regulator	2,625,000	10 PSIG	3-15 PSIG	1/2" NPT
942HP-04		3,600,000	20 PSIG	5-35 PSIG	
942HP-05		4,150,000	40 PSIG	30-60 PSIG	
942HP-06		5,250,000	50 PSIG	35-100 PSIG	
948HP-01	With Relief Valve	2,625,000	10 PSIG	3-15 PSIG	1/2" NPT
948HP-02		3,000,000	15 PSIG	5-20 PSIG	
948HP-03		3,600,000	20 PSIG	5-35 PSIG	

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Kosan+ 81HP Series Direct Operated Regulators



TYPE 81HP



Technical Specifications:

Body and cover: aluminum

Diaphragm: reinforced

Supplying pressure: 25-250 PSI

Cover screws: stainless steel

Inlet fitting screws: stainless steel

Gas type: propane

Provided flows: flow based on inlet pressure 20 psig (1.38 bar) greater than outlet with 20% drop (in accordance with UL 144 standard)

Regulator specifications: see following table

The 81HP series direct operated regulators are designed for high-pressure service and for large loads as in factories, office buildings restaurants, etc. The outlet pressure ranges from 5 to 20 psig.

High-pressure regulators usually reduce tank pressure to an intermediate pressure for use by another regulator. They are also used for final stage service on a particular application (pounds to pounds).

The type 81HP regulator is an adjustable high-pressure regulator with a wide range of outlet pressures. They can be equipped with a limited relief valve.

The type 81HP regulators are equipped with a 1/4" FNPT side outlet which is normally plugged and provides an opening for an outlet pressure gauge.

The type 81HP regulators can be equipped with a Viton trim.

L 6.027 x W 4.33 x H 4.94 Weight: 40.75 oz

Type	Capacity BTU/hr	Orifice Size	Inlet-Outlet Connection	Outlet Pressure Range	Outlet Pressure Setting
812HP-03	6,080,000	3/8"	3/4" NPT	5-20 PSIG	10 PSIG
812HP-04	10,755,000	1/2"			
812HP-01	10,773,000		1" NPT		
812HP-02 ²					
811HP-02 ³	10,755,000		3/4" NPT		
811HP-01 ³	10,773,000		1" NPT		
818HP-11 ¹	6,080,000	3/8"	3/4" NPT		
812HP-05	10,755,000	1/2"	2' NPT		

¹ = has internal relief

² = fluorocarbon trim (GLT Viton)

³ = w/monitoring

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Excelsa-Flo



MEGR-6120 Series

The MEGR-6120 Series are UL listed high-pressure regulators that meet a variety of applications for liquid or vapor service. The compact body design makes these regulators particularly useful in installations with space limitations. The basic MEGR-6120 Series regulators come equipped with a handwheel adjustment. The non-adjustable ME6121 Series provides a tamper-resistant spring case and one of seven fixed set points: 5, 10, 20, 30, 40, 50, or 60 PSI.

The MEGR-6120 & MEGR-6121 Series are UL listed as high pressure, non-relief regulators. Both MEGR-6120 & MEGR-6121 Series regulators contain brass materials that are not compatible with anhydrous ammonia service.

Adjustable Configurations	
Part No.	Description
MEGR-6120-30	High Pressure Adjustable Reg 1-30 PSI - 1/4" FNPT Inlet/Outlet
MEGR-6120-60	High Pressure Adjustable Reg 1-60 PSI - 1/4" FNPT Inlet/Outlet
MEGR-6120-100	High Pressure Adjustable Reg 1-100 PSI - 1/4" FNPT Inlet/Outlet



MEGR-6121 Series

Regulator Specifications

- Type: Adjustable or Fixed / PSI
- Max. Inlet Pressure: 250 PSI (17, 2 bar)
- Inlet Connection: 1/4" FNPT
- Outlet Connection: 1/4" FNPT
- Gauge Port: 1/4" FNPT
- Exterior Finish: Red Wet Coat
- Diaphragm: Fabric Reinforced Buna N
- Body / Bonnet Material: Die Cast Aluminum
- Liquid Capacity: 3-5 GPH
- Listings: UL LISTED / UL 144

Non-Adjustable Configurations	
Part No.	Description
MEGR-6121-05	High Pressure Fixed Reg 5PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-10	High Pressure Fixed Reg 10PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-20	High Pressure Fixed Reg 20PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-30	High Pressure Fixed Reg 30PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-40	High Pressure Fixed Reg 40PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-50	High Pressure Fixed Reg 50PSI - 1/4" FNPT Inlet/Outlet
MEGR-6121-60	High Pressure Fixed Reg 60PSI - 1/4" FNPT Inlet/Outlet

CAPACITIES: BTU/H LPG (VAPOR)		
Outlet Set Point	Inlet Pressure	BTU / HR
15 PSI	50 PSI	850,000
15 PSI	100 PSI	1,700,000
15 PSI	150 PSI	2,500,000
20 PSI	50 PSI	900,000
20 PSI	100 PSI	1,800,000
40 PSI	100 PSI	1,500,000
40 PSI	150 PSI	2,000,000
50 PSI	100 PSI	1,300,000
50 PSI	150 PSI	1,800,000
50 PSI	200 PSI	2,300,000
*Approximate BTU/H vapor capacities taking 10-20% droop into consideration		
Note: Side Outlet Connection Style (Plugged): 1/4" MNPT, pressure gauge (MEJ500 Series) can be installed		

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Kosan+ 49 Series Direct Operated Regulators



bergquistinc.com

492



493



494



495



The 49 series direct operated regulators are designed for high-pressure service and can be used on either vapor or liquid applications. The outlet pressure ranges from 3 to 135 psig.

High-pressure regulators usually reduce tank pressure to an intermediate pressure for use by another regulator.

Note: Type 49 regulators do not have an internal relief valve.

The type 492HP regulator is an adjustable high-pressure regulator with a hand wheel adjustment.

The type 493HP regulator is a wrench adjustable high-pressure regulator. It is very compact.

The type 494HP regulator is a preset high-pressure regulator with no field adjustment.

The type 495HP regulator is an adjustable high-pressure regulator with a dial cap adjustment. They are also used for final stage service. All types are equipped with 1/4" FNPT side outlet which is normally plugged and provides an opening for an outlet pressure gauge.

Technical Specifications:

Body and cover: aluminum

Diaphragm: reinforced

Supplying pressure: 25-250 PSI

Cover screws: stainless steel

Gas type: propane

Provided flows: flow based on inlet pressure 20 psig (1.38 bar) greater than outlet with 20% drop (in accordance with UL 144 standard)



Type	Inlet/Outlet Connections	Description	Capacity BTU/hr	Outlet Pressure Setting	Outlet Adjustment Range
492HP-01	1/4" FNPT	Basic Regulator (Handwheel Adjustment)	675,000	15 PSIG	3-20 PSIG
492HP-02			750,000	20 PSIG	3-35 PSIG
492HP-03			1,200,000	40 PSIG	30-60 PSIG
492HP-04			1,000,000	50 PSIG	50-135 PSIG
492HP-05			750,000	20 PSIG	5-35 PSIG
493HP-02		Basic Regulator (Wrench Adjustment)	675,000	15 PSIG	3-20 PSIG
493HP-01			750,000	20 PSIG	3-35 PSIG
493HP-03			1,20,000	40 PSIG	30-60 PSIG
493HP-04			1,000,000	50 PSIG	50-135 PSIG
493HP-05 ¹			750,000	20 PSIG	5-35 PSIG
494HP-02		Non-Adjustable	400,000	10 PSIG	Not-Adjustable
494HP-01			600,000	15 PSIG	
494HP-03			750,000	20 PSIG	
495HP-01		Dial Cap Adjustment	675,000	15 PSIG	5-20 PSIG
495HP-02			750,000	20 PSIG	5-30 PSIG
495HP-03			1,200,000	40 PSIG	20-50 PSIG

¹ = Inlet M POL

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

First-Stage/High Pressure Industrial Regulators

The MEGR-1627 Series commercial/industrial regulator is a large capacity, high pressure unit for use in conjunction with MEGR-CS1200 or MEGR-S1202 Series regulators. It can also be used on final-stage (PSI to PSI) service. The diaphragm case and/or regulator body on the MEGR-1627 Series can be rotated in any of four positions to allow installation in locations with limited space. Available with a monitor or integral relief valve. The MEGR-1627 Series is perfectly suited for jurisdictional systems, grain dryers, direct fired vaporizers or other high capacity service applications.

The MEGR-1630 Series First Stage / Industrial regulators are large capacity, high pressure units for use in conjunction with MEGR-S1202 Series regulators. They can also be used on final stage (pounds-to-pounds) service. These regulators are best suited for industrial applications where high flow capacity is required.

Regulator Specifications

- Type: Adjustable / PSI
- Orifice Diameter: 3/8", 5/16" or 1/2"
- Orifice Material: Aluminum
- Max. Inlet Pressure: 250 PSI
- Regulator Spring: Steel
- Stem Guide / Disk Holder: Stainless Steel
- Valve Stem: Steel
- Exterior Finish: Grey Powder Coat
- Diaphragm: Fabric Reinforced Nitrile (NBR)
- Bonnet Cap & Housing/Body Material: Cast Aluminum/ Iron
- Temp. Range: -20° F. / 180° F.
- Listings: UL LISTED / UL 144



MEGR1627



Part No.	Description	Inlet/Outlet	Orifice	PSIG Outlet Set Point	PSIG Outlet Range	Monitor	BBTU/H LPG @ 100 PSI Inlet	BTU/H LPG @ 20 PSI Inlet
MEGR1627/497	First Stage High Pressure Regulator	1" FNPT	1/2"	20	15-40	No	36,600,000	6,050,000
MEGR1627/576		2" FNPT	1/2"	10	5-20	No	45,000,000	6,003,000
MEGR1627/5810		3/4" FNPT	3/8"	10	5-20	No	11,700,000	4,700,000
MEGR1627/6210		3/4" FNPT	1/2"	10	5-20	No	12,400,000	6,700,000
MEGR1627/7710		1" FNPT	1/2"	10	5-20	No	25,100,000	6,900,000
MEGR1627M/267		2" FNPT	1/2"	10	5-20	Yes	36,100,000	6,003,000
MEGR1627M/471		1" FNPT	1/2"	10	5-20	Yes	25,100,000	6,900,000
MEGR1627R/113		3/4" FNPT	3/8"	10	5-20	Relief	9,800,000	4,200,000
MEGR1627V/7710*		1" FNPT	1/2"	10	5-20	No	25,100,000	6,900,000
* Viton® construction								

Part No.	Description	Inlet/Outlet	Orifice	PSIG Outlet Set Point	Outlet PSIG Range	*SCFH/HR LPG	BTU/H LPG @ 100 PSI Inlet	BTU/H LPG @ 20 PSI Inlet
MEGR-1630-104/78	First Stage Regulator	2" FNPT	1/2"	10	8-20	18,900	47,000,000	7,700,000

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excelsa-Flo Light Commercial Second Stage Regulators



MEGR-1HSRL

These light commercial second stage regulators are used to reduce outlet pressures from first stage regulators (normally 10 PSI) to 11" WC.

MEGR-1HSRL Series: Offers a full size high capacity light commercial type regulator with an adjustment range from 6-14" WC (factory set @ 11" WC), a heavy duty cast iron body with a universal body to bonnet union for fast relocation of inlet to outlet vent location.

- Type: Second Stage
- Max. Inlet Pressure: 40 PSIG
- Exterior Finish: Gray Powder Coat
- Diaphragm: Fabric Reinforced - NBR
- Relief Type: Internal Relief - Spring Loaded
- Bonnet/Body Material: Die Cast Aluminum/Cast Iron
- Orifice Size: 3/8"

MEC Excelsa-Flo Light Commercial Second Stage Regulators					
Part No.	Capacity in BTU/H LPG ⁽¹⁾	Inlet	Outlet	Outlet Adj. Range ("WC)	Outlet Set Point ("WC)
MEGR-1HSRL-BFC	2,000,000	3/4" FNPT	3/4" FNPT	6-14	11
MEGR-1HSRL-CFC	2,500,000	1" FNPT	1" FNPT	6-14	11

(1) Based on 10 PSIG inlet pressure and 20% droop

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

The MEGR-1133 Series Second Stage / Industrial regulators are large capacity, self operated, low or high pressure units for use in applications with loads up to 110,000,000 BTU/H capacity. These regulators are best suited for industrial applications where high flow capacity and a downstream monitor control line are required.



Excela-Flo Second Stage/Industrial Regulators

MEGR-1133 Specifications

- Type: Adjustable / PSI / WC
- Orifice Diameter: 2"
- Orifice Material: Aluminum
- Max. Inlet Pressure: 60 PSI
- Regulator Spring: Steel
- Stem Guide/Disk Holder: Aluminum
- Valve Stem: Aluminum
- Exterior Finish: Gray Powder Coat
- Diaphragm: Fabric Reinforced Nitrile (NBR)
- Body Material: Iron
- Bonnet Cap & Bonnet: Aluminum

MEGR-1133



Part No.	Description	Inlet/Outlet	Orifice	Range of Adjustment	Outlet Set Point	BTU/H LPG @ 10 PSI Inlet	BTU/H LPG @ 20 PSI Inlet
MEGR-1133H-2	Second Stage Regulator	2" FNPT	2"	2-5 PSI	2 PSI	27,405,000	52,700,000
MEGR-1133H-3	Second Stage Regulator	2" FNPT	2"	5-10 PSI	5 PSI	22,300,000	41,600,000
MEGR-1133L-4	Second Stage Regulator	2" FNPT	2"	8.5"-18" WC	14" WC	45,600,000	77,100,000
MEGR-1133L-6	Second Stage Regulator	2" FNPT	2"	.75-2 PSI	2 PSI	46,700,000	77,100,000
Note: Other configurations available upon request							

Cavagna/Sensus High Capacity Regulators

243-12-2



Sensus 243 12-2, is a reliable high capacity regulator used in 2-PSI systems on commercial and industrial applications requiring up to 10,000,000 Btu's



2-PSI Service Regulators

Part No	BTU Capacity	Inlet/ Outlet	Pressure Range	Pressure Set Point	Manufacturer
988TP-22	500,000	1/2" FNPT	2 psig	2 psig	Cavagna
243-12-2	10,000,000	2" FNPT	1-2.2 psig	2 psig	Sensus

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Second-Stage/Low Pressure Industrial Regulators



bergquistinc.com

EXCELA-FLO



The MEGR-S1202/MEGR-CS1200 Series commercial/ industrial regulators are large capacity, low pressure second stage units for installation at schools, bakeries, and similar applications. They contain a limited capacity internal relief valve and can be used in conjunction with either MEGR-1627 Series or MEGR-1630 Series high-pressure regulators.

For high capacity installations, the MEGR-1289H Series relief valve is required to be installed in the downstream system.



MEGRS1202/
MEGRCS1200

Regulator Specifications

- Type: Adjustable / Inches WC or PSI
- Orifice Diameter: 3/8", 5/16", 1/2" or 1"
- Max. Inlet Pressure: 25 PSIG
- Body Material: Cast Iron
- Regulator Spring: Music Wire
- Spring Case/ Stem Guide/ Disk Holder: Aluminum
- Exterior Finish: Gray Powder Coat
- Disk/ Diaphragm and O-Ring: Fabric Reinforced Nitrile (NBR)
- Closing Cap Gasket: Neoprene

Part No.	Description	Inlet/Outlet Connection Style	Orifice	Outlet Pressure Range	Outlet Pressure Setting	Maximum Operating Inlet Pressure	BTU/H LPG @ 25 PSI Inlet	BTU/H LPG @ 10 PSI Inlet
MEGRCS1200IR6EC1	Second Stage Low Pressure Regulator	3/4" FNPT	1/2"	6 - 14" WC	11" WC	25 PSIG	2,100,000	1,600,000
MEGRCS1200IR6EC3		1" FNPT	1/2"				2,500,000	1,900,000
MEGRCS1200IR6EC6		1-1/4" FNPT	1/2"		7" WC		3,100,000	2,800,000
MEGRCS1200IR7EC1		3/4" FNPT	5/16"				~1,250,000	~985,000
MEGRCS1200IR7EC3		1" FNPT	5/16"	9 - 18" WC	11" WC		~1,620,000	~1,525,000
MEGRS1202G-BNC		1-1/2" FNPT	1"				14,700,000	10,800,000
MEGRS1202G-CNC		2" FNPT	1"				30,000,000	23,000,000
MEGRS1202H-CNK		2" FNPT	1"	1.5-3.25 PSI	2 PSI		22,200,000	10,300,000

*Other configurations and materials available upon request.

~ Flow Rates listed in BTU Natural Gas

* WC = Water Column

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Kosan+ Type 47 Commercial/Industrial Regulator



TYPE 47

Adjustable inlet/outlet position

Complete range of inlet/outlet connections

Aluminum regulator body

Cast Iron flange with rotating body

Extreme temperature resistant diaphragm

Integral relief with 1" FPT connection

Protective powder coating

Stainless steel screws and bolts



Part No.	BTU/hr	Connection	Outlet Pressure Setting
478LP-04	2,500,000	3/4" FPT	11" WC
478LP-05	3,800,000	1" FPT	
478LP-06	3,900,000	1-1/4" FPT	
* BTU Flow Capacities with 10 psi inlet x 11" WC outlet			

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC High Pressure Fish Cooker Regulators



MEGR-130-20
Pre-set at 20 PSIG



inside view



Cut-away view

The MEGR-130 series fixed high pressure single stage regulators are designed to provide an economical solution for pounds to pounds service applications. The MEGR-130 can be used to regulate air as well as LP gas. Regulators must be installed in compliance with federal, state or local codes or laws in accordance with NFPA 58.

The MEGR-350 is a single stage, adjustable high pressure regulator. The body and bonnet of both the fixed and adjustable regulators are precisely machined and feature a crimped design and fabric reinforced rubber diaphragm creating a positive seal for leak-free performance.



MEGR-350
Adjustable 0-10 PSIG



inside view



cut-away view

The MEGR-360 with the Type I (QCC) is designed specifically for appliances such as turkey fryers, fish fryers, camp stoves and torch applications that require pounds to pounds pressure instead of inches water column. These regulators will meet or exceed most requirements on a specific outlet setting (0-10 PSI) depending on the application.

Specifications:

Type:	Adjustable or Fixed / PSI
Max. Inlet Pressure:	250 PSIG (17,2 bar)
Inlet Connection:	1/4" FNPT
Outlet Connections:	1/4" FNPT
Orifice Diameter:	0.0625"
Exterior Finish:	Red Anodized
Diaphragm:	Fabric Reinforced Buna N
Body/ Bonnet Material:	Die Cast Zinc
BTU/H Capacity:	1,200,000 BTU/H @ 40 PSI
Listings:	UL LISTED / UL 144

Part No.	Description
MEGR-130-05	Compact High Pressure Fixed Reg 5 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-10	Compact High Pressure Fixed Reg 10 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-20	Compact High Pressure Fixed Reg 20 PSI - 1/4" FNPT Inlet/Outlet
MEGR-130-30	Compact High Pressure Fixed Reg 30 PSI - 1/4" FNPT Inlet/Outlet
MEGR-350*	Compact High Press. Adjustable Reg 0-10 PSI - 1/4" FNPT Inlet/Outlet
MEGR-350-20*	Compact High Press. Adjustable Reg 0-20 PSI - 1/4" FNPT Inlet/Outlet
MEGR-350-30*	Compact High Press. Adjustable Reg 0-30 PSI - 1/4" FNPT Inlet/Outlet
MEGR-351*	Compact High Pressure Adjustable Reg 0-10 PSI - Full Flow POL x 1/4" FNPT
MEGR-360*	Compact High Pressure Adjustable Reg 0-10 PSI - Black F. QCC x 1/4" FNPT

*Always shut off gas at cylinder when not in use.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Single Stage Regulators



750050

1/4" FNPT x 3/8" FNPT

low pressure regulator 70,000 Btu



F276136



800010

QCC1 X 3/8" FNPT 90°

low pressure regulator 60,000 Btu

High/Low Pressure Outdoor Cooking Regulators

- Zinc die casting
- Outlet: 1/4" FNPT at 90° or 180°
- Inlet: 1/4" FNPT
- Outlet Pressure: 9, 10, 15 or 16 psi
- Setting Point: 11 WC +/-, 35,000 Btu/h
- Inlet Pressure: 25 - 250 psi

The single stage regulator has to be installed in compliance with state or federal laws and with NFPA58. It is designed to supply gas appliances functioning at pressure equal to or higher than 0.5 PSI. This regulator will be connected to gas appliances through high pressure flexible hoses. Depending on the versions the outlet fitting may be at 90° or 180° in comparison with inlet fitting.



TYPE 756 HP FIXED



TYPE 755 HP ADJUSTABLE

- Zinc die casting
- Outlet: 1/4" FNPT
- Inlet: 1/4" FNPT
- Outlet Pressure: 0 - 10 psi
- Inlet Pressure: 25 - 250 psi

The 755HP regulator is especially designed for gas appliances such as turkey fryers, fish fryers, camping stoves and torches, i.e. appliances that need variable pressure in terms of psi. The regulator flow rate is regulated by rotating the hand-wheel on the regulator from 0 to 10. Position '0' means TURNED OFF (no gas flowing). For safety reasons '0' is locked. Gas begins to flow by pressing the red button on the hand-wheel and turning the hand-wheel clockwise at the same time.



Low Pressure Single Stage Regulators

Part No.	Inlet	Outlet	Manufacturer
MEGR218	POL with plastic handwheel	3/8" FNPT	MEC
MEGR230	1/4" FNPT	3/8" FNPT	MEC
750050	1/4" FNPT	3/8" FNPT	Cavagna
MEGR230-90*	1/4" FNPT	3/8" FNPT	MEC
MEGR230-1326	Female QCC1	3/8" FNPT	MEC
MEGR230-1618*	Female QCC1	3/8" FNPT	MEC
MEGR231*	POL	3/8" FNPT	MEC
F276136	POL	3/8" FNPT	Mr. Heater
800010	Female QCC1	3/8" FNPT at 90°	Cavagna
* 90° vent			



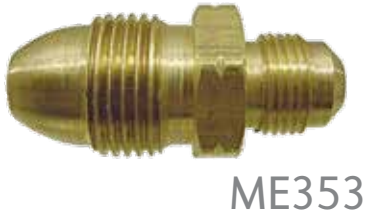
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Single Piece POL Adapters



Single Piece POL Adapter

Part Number	POL Connection	Other Connection
ME301	Female POL	1/4" FNPT
ME303	Female POL	1/2" FNPT
ME284	Female POL	1/4" MNPT
ME285	Female POL	3/8" MNPT
ME286	Female POL	1/2" MNPT
ME287	Female POL	3/4" MNPT
ME357	Male POL	1/2" FNPT
ME353	Male POL	3/8" SAE Flare
ME355	Male POL	1/2" SAE Flare
ME356	Male POL	5/8" SAE Flare



POL Tee Blocks and Tee Checks

POL Tee Blocks & Tee Checks

Part Number	Check	Inlet	Outlet	POL Hex
1703B	No	MPOL	FPOL	1 1/8" Hex
1702A	Yes	MPOL	FPOL	1 1/8" Hex
ME1704B	No	FPOL	FPOL	1 1/8" Hex
ME1700A	Yes	1/4" Inv Flr	1/4" MNPT	-
G1700B	No	1/4" Inv Flr	1/4" MNPT	-
ME1705A	Yes	1/4" MNPT	FPOL	1 1/8" Hex
ME1701B	No	FPOL	MPOL	7/8" Hex
16-1-190-0184	No	FPOL	MPOL	7/8" Hex



POL Excess Flow Manifold Adapters

Part #	Description	GPM Closing Rate
ME353EX9	Male POL x 3/8" M FLARE	0.9
ME353EX18	Male POL x 3/8" M FLARE	1.8
ME354EX9	Male POL x 1/2" MNPT	0.9
ME354X18	Male POL x 1/2" MNPT	1.8
ME355EX9	Male POL x 1/2" M FLARE	0.9
ME355EX18	Male POL x 1/2" M FLARE	1.8
ME356EX9	Male POL x 5/8" M FLARE	0.9
ME356EX18	Male POL x 5/8" M FLARE	1.8

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

POL Adapters

POL Adapters

Part Number	Excess Flow	Soft Nose	Outlet
G1638	#60 Orifice	Yes	1/4" MNPT
G1650	No	No	9/16" MLH
G1675	No	No	1/4" MNPT
G1689	Yes	No	9/16" MLH
G1690	Yes	No	1/4" MNPT
ME345	No	No	90° 1/4" MNPT
I685N	-	-	7/8" Hex Nut Only
I685NLH	-	-	1 1/8" Hex Nut Only



G1675



G1654A

POL Adapters

Part Number	Excess Flow	Soft Nose	Description
G1654	No	Yes	Plastic Handwheel
G1654A	No	Yes	Brass Handwheel
G1653	Yes	Yes	Plastic Handwheel
G1653A	Yes	Yes	Brass Handwheel
G1645	Yes	Yes	9/16" LH, Plastic Handwheel
2-110A	-	-	"O" Ring Replacement

POL Adapters

Part Number	Description
G475	Softnose, Handwheel, POL x 1" 20 Male
G1691	Brass POL Plug
PC4510	Brass POL plug with chain & ring
G1699	Brass POL Cap



G475



G1691



G1699

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

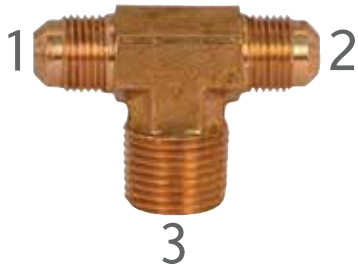
Flare Fittings

3-Way Reducing Tee
No. 44 Forged



Part No.	O.D. Tube Size
	1.... 2.... 3....
44EEC	3/8" x 3/8" x 1/4"
44EEF	3/8" x 3/8" x 1/2"
44EEI	3/8" x 3/8" x 5/8"
44FFE	1/2" x 1/2" x 3/8"
44FFII	1/2" x 1/2" x 5/8"
44IFF	5/8" x 1/2" x 1/2"
44IIEE	5/8" x 5/8" x 3/8"
44IIF	5/8" x 5/8" x 1/2"

3-Way Tee
No. 45 Forged



Part No.	O. D. Tube Size - Pipe Size
	1.... 2.... 3....
45EEE	3/8" x 3/8" x 3/8"
45EEF	3/8" x 3/8" x 1/2"
45FFF	1/2" x 1/2" x 1/2"

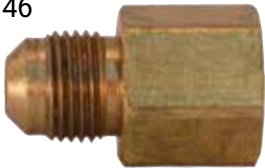
3-Way Tee
No. 44 Forged



Part No.	O.D. Tube Size
44C	1/4"
44E	3/8"
44F	1/2"
44I	5/8"

Part No.	O. D. Tube Size - Pipe Size
46EC	3/8" x 1/4"
46EE	3/8" x 3/8"
46EF	3/8" x 1/2"
46EK	3/8" x 3/4"
46FC	1/2" x 1/4"
46FE	1/2" x 3/8"
46FF	1/2" x 1/2"
46FK	1/2" x 3/8"
46IE	5/8" x 3/8"
46IF	5/8" x 1/2"
46IK	5/8" x 3/4"

Female Connector
No. 46



Male Breakaway Nut
with Sleeve



Part No.	Size
CF639	1/8" O. D.
43283-2	1/8" O. D.
CF644	3/8" O. D.

Compression Nut
and Sleeve



Part No.	Tube Size
60C	1/4" Sleeve
61C	1/4" Female Compression Nut

Short Forged Nut
No. NS4



Part No.	O. D. Tube Size
NS4C	1/4"
NS4E	3/8"
NS4F	1/2"
NS4L	5/8"
4IL	7/8"

Reducing Nut
Forged No. NRS4



Part No.	O. D. Tube Size
NRS4EC	3/8" x 1/4"
NRS4FE	1/2" x 3/8"
NRS4IE	5/8" x 3/8"
NRS4IF	5/8" x 1/2"

Swivel Nut
No. US4



Part No.	O. D. Tube Size
US4E	3/8"
US4F	1/2"
US4I	5/8"
US4EC	3/8" x 1/4"
US4FE	1/2" x 3/8"
US4IF	5/8" x 1/2"

Full Union
No. 42



Part No.	O. D. Tube Size
42C	1/4"
42E	3/8"
42F	1/2"
42I	5/8"

Reducing Union
No. 42



Part No.	O. D. Tube Size
42FE	1/2" x 3/8"
42IE	5/8" x 3/8"
42IF	5/8" x 1/2"

bergquistinc.com
1 800 537 7518

Flare Fittings

Male Connector NO. 48

Part No.	O. D. Tube Size - Pipe Size
48CA	1/4" x 1/8"
48CC	1/4" x 1/4"
48CE	1/4" x 3/8"
48CF	1/4" x 1/2"
48EA	3/8" x 1/8"
48EC	3/8" x 1/4"
48EE	3/8" x 3/8"
48EF	3/8" x 1/2"
48EK	3/8" x 3/4"
48FC	1/2" x 1/4"
48FE	1/2" x 3/8"
48FF	1/2" x 1/2"
48FK	1/2" x 3/4"
48IE	5/8" x 3/8"
48IF	5/8" x 1/2"
48IK	5/8" x 3/4"
48LK	7/8" x 3/4"



(Special fitting with longer male threads)

Female Elbow No. 54 Forged

Part No.	O.D. Tube Size - Pipe Size
54EE	3/8" x 3/8"
54EF	3/8" x 1/2"
54EK	3/8" x 3/4"
54FE	1/2" x 3/8"
54FF	1/2" x 1/2"
54FK	1/2" x 3/4"
54IE	5/8" x 3/8"
54IF	5/8" x 1/2"
54IK	5/8" x 3/4"



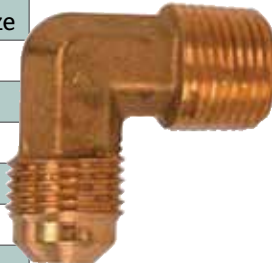
2-Way Elbow No. 55 Forged

Part No.	O. D. Tube Size
55E	3/8"
55F	1/2"
55I	5/8"
55FE	1/2" x 3/8"



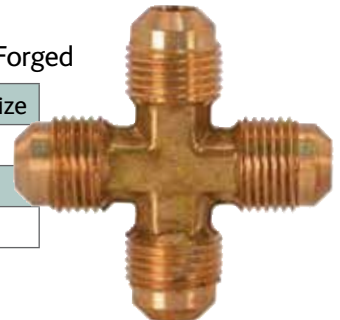
Male Elbow No. 49 Forged

Part No.	O. D. Tube Size - Pipe Size
49CA	1/4" x 1/8"
49CC	1/4" x 1/4"
49EA	3/8" x 1/8"
49EC	3/8" x 1/4"
49EE	3/8" x 3/8"
49EF	3/8" x 1/2"
49EK	3/8" x 3/4"
49FC	1/2" x 1/4"
49FE	1/2" x 3/8"
49FF	1/2" x 1/2"
49FK	1/2" x 3/4"
49IE	5/8" x 3/8"
49IF	5/8" x 1/2"
49IK	5/8" x 3/4"



SAE Flare Cross No. C1 Forged

Part No.	O. D. Tube Size
C1E	3/8"
C1F	1/2"
C1I	5/8"



Flare Cap No. N5

Part No.	O. D. Tube Size
N5C	1/4"
N5E	3/8"
N5F	1/2"
N5I	5/8"



Female Elbow No. 50 Forged

Part No.	O. D. Tube Size - Pipe Size
50EC	3/8" x 1/4"



Copper Seal Bonnet

Part No.	Size
B1C	1/4" O. D.
B1E	3/8" O. D.
B1F	1/2" O. D.
B1I	5/8" O. D.

bergquistinc.com
1 800 537 7518

Flare Plug No. P2

Part No.	O. D. Tube Size
P2C	1/4"
P2E	3/8"
P2F	1/2"
P2I	5/8"
ME2131	1/4" Inv. Flr.



ME2131

P2E



Standard (Schedule 40) Black Pipe Fittings

Check with the sales dept. for any sizes not listed below.



bergquistinc.com



613010



613051



TEE



CAP



STREET
ELBOW



ELBOW



COUPLING



PLUG



UNION

Pipe Size	Hex Bushing	Bell Reducer	Reducing Ell
3/8" x 1/4"	613007	613300	-
1/2" x 3/8"	613006	613014	-
3/4" x 1/2"	613010	613015	613051
1" x 1/2"	613012	613351	-
1" x 3/4"	613013	613020	613052
1 1/4" x 3/4"	-	613362	613054
1 1/4" x 1"	613021	613022	-

Carry the box with you to the job site.

Part Number	Description
613150	1/2" Nipple Pack, standard weight
613175	3/4" Nipple Pack, standard weight

Item	Pipe Size (Inches)						
	1/4	3/8	1/2	3/4	1	1 1/4	2
90° Elbow	613039	613047	613050	613053	613055	613048	613049
45° Elbow	613200	613203	613206	613209	613212	613214	613218
Tees	612999	612998	613000	613003	613005	-	612996
Crosses	-	-	613415	613421	-	-	-
Cap	-	613023	613025	613028	613035	613036	-
90° Street Elbow	613037	613038	613040	613043	613044	-	613045
Couplings	612966	612968	612970	612975	612977	612979	-
Hex Head Plugs	613251	613253	612940	612943	613259	-	-
Unions	612951	612953	612955	612956	612957	612960	-
Pipe Nipples - Close	613057	613056	613060	613075	613090	613140	613147
1 1/2" Long Nipples	613058	-	613063	-	-	-	-
2" Long Nipples	613100	613103	613061	613078	613125	-	-
2 1/2" Long nipples	-	-	-	613079	-	-	-
3" Long Nipples	613059	613107	613062	613080	613127	-	613148
4" Long Nipples	613184	613106	613065	613082	613129	-	-
5" Long Nipples	613185	-	613067	613084	613131	-	-
6" Long Nipples	613064	613109	613069	613086	613133	-	613149
7" Long Nipples	-	613111	-	-	-	-	-
8" Long Nipples	-	-	613070	613113	-	-	-
9" Long Nipples	-	613112	-	-	-	-	-
10" Long Nipples	-	-	613072	613089	-	-	-
12" Long Nipples	-	-	613074	613088	-	-	-
18" Long Nipples	-	-	613161	613166	-	-	-
24" Long Nipples	-	-	-	613167	-	-	-

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

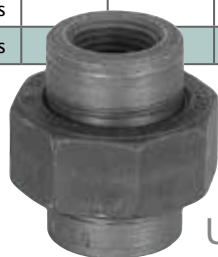


bergquistinc.com

Extra Heavy (Schedule 80) Forged Steel Fittings



Item	Rating	Pipe Size (Inches)									
		1/8	1/4	3/8	1/2	3/4	1	1 1/4	1 1/2	2	3
90° Elbow	2000 lb	611011	611012	611013	611014	611019	611024	611029	611034	611039	611049
45° Elbow				611079	611077	611080	611081	611129	611134	611139	611143
Tees			611168	611169	611170	611171	611173	611174	611176	611175	611180
Crosses			611509	611511	611513	611515	611524	611530		611533	611537
90° Street Elbow	3000 lb	611156	611160	611161	611162	611163	611164	611165	611166	611167	
Couplings		600100	600105	600110	600115	600120	600125	600130	600135	600140	600150
Hex Head Plugs			600505	600510	600515	600520	600525	600530	600535	600540	600550
Caps		600395	600400	600405	600410	600415	600420	600425	600430	600435	
Unions			660105	660110	660115	660120	660125	660130	660135	660140	660150
Pipe Nipples - Close	XH Sch 80		612019	612020	612040	612095	612170	612220	612285	612335	612405
1 1/2" Long Nipples			612008	612022	612045						
2" Long Nipples			612009	612024	612050	612105	612175	612225	612287		
2 1/2" Long nipples			612010		612055	612110	612180	612230	612290	612345	
3" Long Nipples			612011	612025	612060	612115	612185	612235	612295	612350	612410
3 1/2" Long Nipples					612065	612120	612190	612240	612300	612355	
4" Long Nipples			612013	612027	612070	612125	612195	612245	612305	612360	612415
4 1/2" Long Nipples					612075	612130	612200	612250	612310	612370	
5" Long Nipples			612017	612026	612080	612135	612205	612255	612315	612375	612420
5 1/2" Long Nipples					612085	612138	612210	612260	612320	612380	
6" Long Nipples			612014	612029	612090	612145	612215	612265	612325	612385	612425
7" Long Nipples								612270		612390	612435
8" Long Nipples					612094			612275			612440
9" Long Nipples						612150					
10" Long Nipples			612018				612216	612277		612398	612446
12" Long Nipples					612093	612160	612218	612279	612328	612401	612448
18" Long Nipples						612168					
24" Long Nipples							612217	612281			



UNION



HEXAGON
HEAD PLUG



COUPLING



PIPE
NIPPLE

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Extra Heavy (schedule 80) Forged Steel Fittings



HEXAGON BUSHING



REDUCER

SWAGE
NIPPLE



Extra Heavy (XH) Forged Steel Fittings

Pipe Size	Swage Nipples (Sch. 80)	Hex Bushings (3000lbs)	Reducing Couplings (3000lbs)
3/8 x 1/4		603110	600600
3/4 x 1/4		603135	600607
3/4 x 3/8	C1206	603140	600610
3/4 x 1/2	C1208	603145	600609
1 x 1/4		603155	600611
1 x 3/8		603160	600612
1 x 1/2	C1608	603165	600613
1 x 3/4	C1612	603170	600614
1 1/4 x 1/4		603180	
1 1/4 x 1/2	C2008	603190	
1 1/4 x 3/4	C2012	603195	600619
1 1/4 x 1	C2016	603200	600620
1 1/2 x 1/4		603210	
1 1/2 x 1/2		603220	
1 1/2 x 3/4	C2412	603225	
1 1/2 x 1	C2416	603230	600626
1 1/2 x 1 1/4	C2420	603235	600627
2 x 1/4		603258	
2 x 3/4	C3212	603260	
2 x 1	C3216	603265	600633
2 x 1 1/4	C3220	603270	600634
2 x 1 1/2	C3224	603275	600635
2 1/2 x 1		603305	
2 1/2 x 2	C4032	603313	600637
3 x 3/4		603345	
3 x 1 1/4	C4820	603350	
3 x 1 1/2	C4824	603352	
3 x 2	C4832	603365	600639
3 x 2 1/2	C4840		

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Flexible Connectors

Flexible Connectors/Liquid Y Strainers

630136

Part Number	Pipe Size	Overall Length	# of Steel Braids	SPECIAL ORDER Minimum Lengths
630002	1/2" MNPT	12"	Single	10"
630006	3/4" MNPT			
630008		16"		
630010		18"		
630026	1" MNPT	16"	Double	12"
630056	1 1/4" MNPT			
630096	1 1/2" MNPT			
630136	2" MNPT	18"		
630171	3" MNPT	22"		16"



Braided stainless steel.

350 PSI rated.

Schedule 80 ends.

For liquid propane service and anhydrous ammonia service.

Prevents piping damage from vibration and thermal expansion.

Notes: Never use a flexline to correct bad plumbing.

Flexline must be kept straight.

Do not use on mobile installations - use high pressure

Parker rubber hose, with pressed on ends, certified.

We can custom make flexlines to your specifications
Allow 3 days for custom lines.

The length shown in the chart is the minimum.
36" is the maximum allowed.

Liquid Y Strainers

Part Number	Description	Clean Out Plugs Size, Part Number
ME650SP	1/2" FNPT	1/2", 600515
ME651SP	3/4" FNPT	1/2", 600515
ME652SP	1" FNPT	3/4", 600520
ME653SP	1 1/4" FNPT	3/4", 600520
ME654SP	1 1/2" FNPT	1", 600525
ME655SP	2" FNPT	1", 600525
ME655S-2F	2" Flange	1", 600525
ME656SP	3" FNPT	1 1/4", 600530
ME656S-3F	3" Flange	1 1/4", 600530
ME656S-4F	4" Flange	1 1/4", 600530

Ductile iron strainers rated at 600 lb.

Self cleaning Y-type design

40 mesh stainless steel screen



ME656SP

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Steel Pipe Adapters



bergquistinc.com



2047-8-8

Swivel Pipe to Elbow (MxF)

Part Number	Description
2047-8-8	1/2", M x F, 90° Elbow, Swivel
2047-12-12	3/4", M x F, 90° Elbow, Swivel



2046-16-16

Swivel Female Pipe Adapter (Straight)

Part Number	Female Size, Both Sides
2046-4-4	1/4"
2046-6-6	3/8"
2046-8-8	1/2"
2046-12-12	3/4"
2046-16-16	1"
2046-20-20	1 1/4"
2046-24-24	1 1/2"
2046-32-32	2"

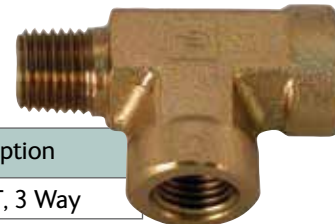


2048-12-12

Swivel Female Pipe Adapter (Elbow)

Part Number	Female Size, Both Sides
2048-8-8	1/2"
2048-12-12	3/4"
2048-24-24	1 1/2"
2048-32-32	2"

Note: One application - use to install a hydrostat and a bleeder in same 1/4" NPT opening.



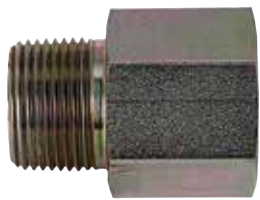
2092-4-4

Steel Street Tee

Part Number	Description
2092-4-4	1/4" NPT, 3 Way

Solid Pipe to Pipe (MxF) Adapters

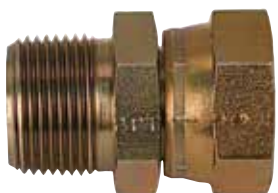
Part Number	Male Size	Female Size
2040-8-12	1/2"MNPT	3/4"FNPT
2040-12-12	3/4"MNPT	3/4"FNPT
2040-12-16	3/4"MNPT	1"FNPT
2040-16-16	1"MNPT	1"FNPT
2040-16-20	1"MNPT	1 1/4"FNPT



2040-8-12

Swivel Pipe to Pipe (MxF) Adapters

Part Number	Both Sides Same Size
2045-4-4	1/4" M x F
2045-6-6	3/8" M x F
2045-8-8	1/2" M x F
2045-12-12	3/4" M x F
2045-16-16	1" M x F
2045-20-20	1 1/4" M x F
2045-24-24	1 1/2" M x F
2045-32-32	2" M x F



2045-8-8

48



bergquistinc.com

Dielectric Unions, Meter Stops, Brass Connectors

Extra Heavy Dielectric Unions

Part No.	Description
GS33XH	3/4" O-ring insulated union, forged steel, dielectric, 3000#
GS44XH	1" O-ring insulated union, forged steel, dielectric, 3000#
GS55XH	1-1/4" O-ring insulated union, forged steel, dielectric, 3000#
GS66XH	1-1/2" O-ring insulated union, forged steel, dielectric, 3000#
GS77XH	2" O-ring insulated union, forged steel, dielectric, 3000#
GS88XH	3" O-ring insulated union, forged steel, dielectric, 3000#



Standard Dielectric Unions

Part No.	Description
GS22	1/2" 150# insulated union
GS33	3/4" 250# insulated union
GS44	1" 150# insulated union
GS55	1-1/4" 150# insulated union
GS77	2" 150# insulated union



Dielectric Meter Stop

Part No.	Description
241-004B	3/4" meter stop shut off valve with dielectric union



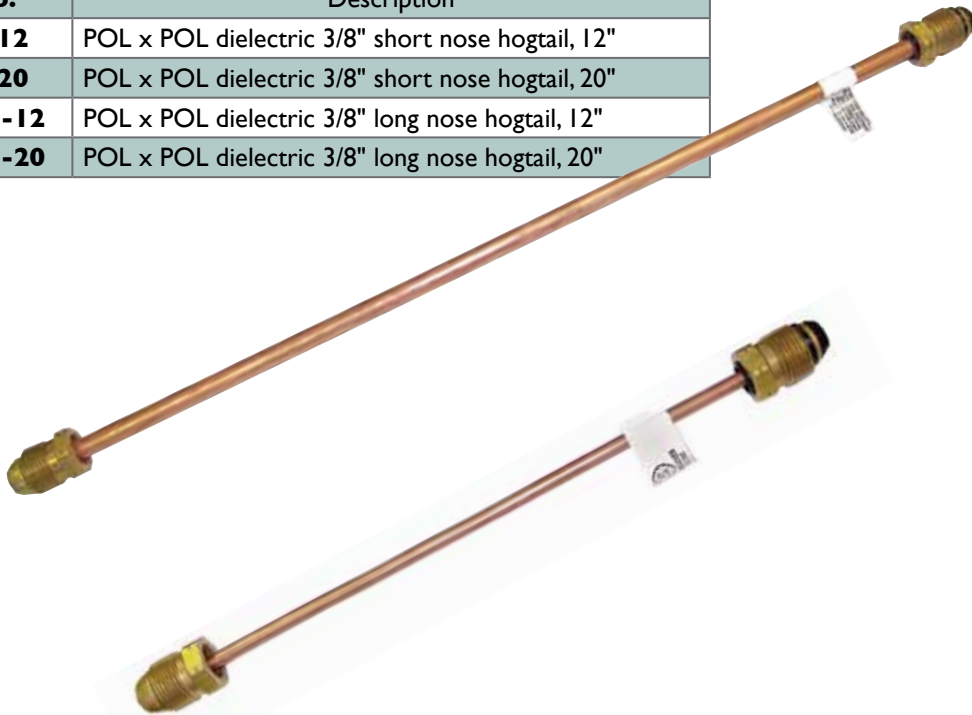
Dielectric Brass Connectors

Part No.	Description
ME690-4-10	Insulated 150# dielectric union, 1/2" MPT x 5/8" M. flare
ME690-4-6	Insulated 150# dielectric union, 1/2" MPT x 3/8" M. flare
ME690-4-8	Insulated 150# dielectric union, 1/2" MPT x 1/2" M. flare
ME690-6-10	Insulated 150# dielectric union, 3/4" MPT x 5/8" M. flare
ME690-6-6	Insulated 150# dielectric union, 3/4" MPT x 3/8" M. flare
ME690-6-8	Insulated 150# dielectric union, 3/4" MPT x 1/2" M. flare



Dielectric Hogtails

Part No.	Description
MEI680D-12	POL x POL dielectric 3/8" short nose hogtail, 12"
MEI680D-20	POL x POL dielectric 3/8" short nose hogtail, 20"
MEI680LD-12	POL x POL dielectric 3/8" long nose hogtail, 12"
MEI680LD-20	POL x POL dielectric 3/8" long nose hogtail, 20"



Dielectric Pigtails

Part No.	Description
MEI662D-12	POL x POL dielectric 1/4" long nose hogtail, 12"
MEI662D-20	POL x POL dielectric 1/4" long nose hogtail, 20"
MEI664D-12	POL x POL dielectric 1/4" short nose hogtail, 12"
MEI664D-20	POL x POL dielectric 3/8" short nose hogtail, 20"
MEI669D-12	POL x 1/4" MNPT dielectric 1/4" short nose pigtail, 12"
MEI669D-20	POL x 1/4" MNPT dielectric 1/4" short nose pigtail, 20"
MEI679D-12	POL x 1/4" MNPT dielectric 1/4" long nose pigtail, 12"
MEI679D-20	POL x 1/4" MNPT dielectric 1/4" long nose pigtail, 20"

Dielectric Ball Valves

Part No.	Description
R602F12DU	1/2" male flare x 1/2" FPT valve w/dielectric union
R60212DU	1/2" FPT ball valve with dielectric union
R60212MDU	1/2" MPT x 1/2" MFL ball valve w/dielectric insulated union
R60234DU	3/4" FPT ball valve with dielectric union
R60234MDU	3/4" MPT x 3/4" FPT ball valve w/dielectric insulated union





bergquistinc.com

Copper and Coated Copper Tubing, Aluminum Tubing

CT0650



Refrigeration Copper
Sold by outside diameter (O. D.)

Part Number	O.D. Tube Size	Length
CT0450	1/4"	50'
CT0650	3/8"	50'
CT06100	3/8"	100'
CT0850	1/2"	50'
CT08100	1/2"	100'
CT1050	5/8"	50'
CT10100	5/8"	100'

GT0650



Coated Refrigeration Copper
Sold by outside diameter (O.D.)

Part Number	O.D. Tube Size	Length
GT0650	3/8"	50'
GT06100	3/8"	100'
GT0850	1/2"	50'
GT08100	1/2"	100'
GT1050	5/8"	50'
GT10100	5/8"	100'

Type K Copper sold by inside diameter (I. D.)

Part Number	I. D. Tube Size	Length
KT0460	1/4"	60'
KT04100	1/4"	100'
KT0660	3/8"	60'
KT06100	3/8"	100'
KT0860	1/2"	60'
KT08100	1/2"	100'

Type L Copper sold by inside diameter (I. D.)

Part Number	I. D. Tube Size	Length
LT0460	1/4"	60'
LT04100	1/4"	100'
LT0660	3/8"	60'
LT06100	3/8"	100'
LT0860	1/2"	60'
LT08100	1/2"	100'



Coated L Copper
Sold by inside diameter (I. D.)

Part Number	O.D. Tube Size	Length
GTL0460	1/4"	60'
GTL04100	1/4"	100'
GTL0660	3/8"	60'
GTL06100	3/8"	100'
GTL0860	1/2"	60'
GTL08100	1/2"	100'

ALUMINUM TUBING

Aluminum Tubing
Sold by outside diameter (O. D.)
Full rolls only.

Part Number	O.D. Tube Size	Length
AL0250	1/8"	50'
AL0450	1/4"	50'
AL0650	3/8"	50'



71900
Termination flange for
copper installations
7/8" hex

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

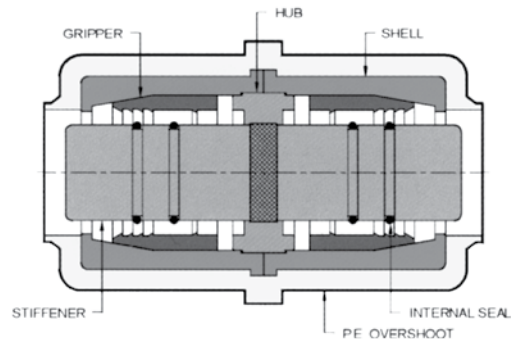
Plastic Pipe and Fittings



Note: Plastic pipe is sold in CTS (copper tube size) and IPS (iron pipe size). We stock 1/2" CTS and IPS in all other sizes

Plastic Pipe

Part Number	Description
PP08	1/2" CTS Tubing, 500' Roll - SDR 7 - Shrink wrapped or banded
PP12	3/4" IPS Tubing, 500' Roll - SDR 11
PP16X500	1" IPS Tubing, 500' Roll - SDR 11
PP20X500	1 1/4" IPS Tubing, 500' Roll - SDR 10
PP32X250	2" IPS Tubing, 250' Roll - SDR 11
PP32X500	2" IPS Tubing, 500' Roll - SDR 11



The internal seal enables each fitting to seal on scratched pipe. A seal is maintained on the smooth inside surface of the polyethylene pipe, regardless of the exterior surface of the piping. This improved seal protection creates the ultimate design for mechanical joints.

Each Con-Stab fitting provides the following unique features:

- Two internal seals
- Fixed stiffener
- Self-locking gripper
- Moisture lip
- Uni-body construction



Con-Stab Transition Fitting
9932-00-0019-00

The Con-Stab I.D. Seal® fittings provide the user with the following advantages:

- Cost effective joining method
- Simple assembly
- No additional assembly equipment required for installation (just chamfer pipe and push)
- Expanded product line with various configurations and material options (PE 2406 or PE 3408)
- Uni-body design eliminating all external parts
- Meets or exceeds all D.O.T. and ASTM requirements

Chamfer Tool

Part Number	Description
0000-33-5481-00	3/4" IPS x 1/2" CTS chamfer tool (5/8" O.D.)
0000-33-6580-15	1 1/4" IPS chamfer tool
0000-33-6580-17	2" IPS chamfer tool
0000-33-5606-00	1" IPS x 1" CTS chamfer tool



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Plastic Fittings

Reducing Tee



Part Number	Description
3259-49-0413-66	1/2" CTS x 1/2" CTS x 3/4" IPS
3259-49-1304-66	3/4" IPS x 3/4" IPS x 1/2" CTS
3259-49-1413-66	1" IPS x 1" IPS x 3/4" IPS

Couplings

Part Number	Description
3259-52-1004-66	1/2" CTS
3259-52-1013-66	3/4" IPS
3259-52-1014-66	1" IPS
3259-52-1015-00	1 1/4" IPS
3259-52-1017-00	2" IPS



90° Elbow



Part Number	Description
3259-51-1004-66	1/2" CTS
3259-51-1013-66	3/4" IPS
3259-51-1014-66	1" IPS
3259-51-1015-00	1 1/4" IPS
3259-51-1017-00	2" IPS

End Caps

Part Number	Description
3259-53-1004-00	1/2" CTS con stab end cap Continental fitting
3259-53-1013-00	3/4" IPS con stab end cap Continental fitting
3259-53-1014-00	1" IPS con stab end cap SDR-11 Continental fitting
3259-53-1015-00	1 1/4" IPS con stab end cap Continental fitting
3259-53-1017-00	2" IPS con stab end cap Continental fitting

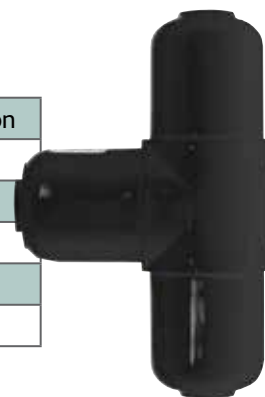
Repair Couplings

Part Number	Description
0459-56-0800-66	1/2" CTS x 8" long
0459-56-1200-66	1/2" CTS x 12" long
0459-56-2400-66	1/2" CTS x 24" long
1359-56-0800-66	3/4" IPS x 8" long
1359-56-1200-66	3/4" IPS x 12" long
1359-56-2400-66	3/4" IPS x 24" long
1459-56-0800-66	1" IPS x 8" long
1459-56-1200-66	1" IPS x 12" long



Tees

Part Number	Description
3259-50-1004-66	1/2" CTS
3259-50-1013-66	3/4" IPS
3259-50-1014-66	1" IPS
3369-50-1015-00	1 1/4" IPS
3259-50-1017-00	2" IPS



Self-Tapping Tee

Part Number	Description
5864-15-1604-66	1 1/4" IPS Main x 1/2" CTS
5864-15-1613-66	1 1/4" IPS Main x 3/4" IPS
5864-17-1604-66	2" IPS Main x 1/2" CTS
5864-17-1613-66	2" IPS Main x 3/4" IPS
5864-17-1614-66	2" IPS Main x 1" IPS

Reducing Couplings

Part Number	Description
3259-54-1304-66	3/4" IPS x 1/2" CTS
3259-54-1404-66	1" IPS x 1/2" CTS
3259-54-1408-66	1" IPS x 1" CTS
3259-54-1413-66	1" IPS x 3/4" IPS



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Plastic Pipe Risers



X-Riser



Flexible Riser System
for Plastic Pipe
Dependable, simplified
compression style anodized
service head.
Reusable fitting with Buna seal,
strengthened with a spiral steel
stiffener.
Integral swivel for easy
installation.
Complete with poly liner and
lower moisture seal.
Meets or exceeds NFPA58 and
ANSI standards..
Available with 1/2", 3/4" MPT or
1/2" female flare service head, in
3', 6', 8' & 12' lengths.



Part Number	Plastic Pipe Size	Outlet Connection	Length
XR108-36	1/2" CTS	1/2" MPT	3 ft
XR108-72			6 ft
XR108-96			8 ft
XR108-144			12 ft
XR108SN-36		1/2" Female Flare Swivel	3 ft
XR108SN-72			6 ft
XR108SN-96			8 ft
XR1012-36		3/4" MPT	3 ft
XR1012-48			4 ft
XR1012-72			6 ft
XR1012-96			8ft
XR1012-144			12 ft
XR17C12-36	3 ft		
XR17C12-72	6 ft		
XR17C12-96	8 ft		
XR17C10SN-36	3/4" IPS	5/8" Female Flare Swivel	3 ft
XR17C10SN-72			6 ft
XR17C10SN-96			8 ft

Note: Slide the plastic tubing through the riser to the end and make your connection there, above ground. No connections underground, no coupling needed.

Note: Slide the plastic tubing through the riser to the end and make your connection there, above ground. No connections underground, no coupling needed.

Rigid Risers

Part Number	Description
1253-91-4604-00	1/2"MPT x 1/2" CTS Riser w/ 30" Vertical
1352-91-4604-00	3/4"MPT x 1/2" CTS Riser w/ 36" Vertical
1353-91-4613-00	3/4"MPT x 3/4" IPS Riser w/ 30" Vertical
1453-91-4614-00	1" MPT x 1" IPS Riser w/ 30" Vertical
1553-91-4615-00	1 1/4" MPT x 1 1/4" IPS Riser w/ 30" Vertical
1752-91-4617-00	2" MPT x 2" IPS Riser w/ 36" Vertical

Riser Materials

597-10-8-SW	Service Head Top Half 1/2" FFL Swivel for 1/2" CTS XX Riser
--------------------	---

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Transition Fittings



M545C1
M545C2

Plastic to pipe.
19" over-all length



Transition Fittings

Plastic to Copper, Male Flare Transition Fittings		
Part No.	Description	Manufacturer
M545C1	1/2" CTS X 3/8" M Flare Brass - Compression	Chicago Fittings
M545C2	1/2" CTS x 1/2" M Flare Brass - Compression	Chicago Fittings
9943-99-0063-00	1/2" CTS X 3/8" M Flare Brass - Con Stab	Continental Industries
9943-99-0064-00	1/2" CTS x 1/2" M Flare Brass - Con Stab	Continental Industries
Plastic to Female Pipe Transition Fittings		
Part No.	Description	Manufacturer
M697C	1/2" CTS x 1/2" FNPT Brass - Compression	Chicago Fittings
9932-00-0019-00	1/2" CTS x 1/2" FNPT Brass - Con Stab	Continental Industries
M697B	1/2" CTS x 3/8" FNPT Brass Compression	Chicago Fittings
9932-00-0032-00	3/4" IPS x 3/4" FNPT Brass - Con Stab	Continental Industries
Plastic to Pipe Transition Nipples 19" Over All Length (Requires Plastic Coupling)		
Part No.	Description	Manufacturer
240369	1/2" CTS x 3/4" MPT	RW Lyall
240148	3/4" IPS x 3/4" MPT	RW Lyall
240151	1" IPS x 1" MPT	RW Lyall
240339	1 1/4" IPS x 1 1/4" MPT	RW Lyall
240340	2" IPS x 2" MPT	RW Lyall

Fusion Fittings

CURB VALVES, BOXES & SUPPORTS	
Part Number	Description
VC1	Curb Support 1/2" to 1 1/4" valves

All curb valves, curb boxes and supports are products of Handley Industries, Inc.

CURB VALVE



VC1

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Plastic Pipe Accessories



bergquistinc.com

Butt fusion and socket fusion fittings are also available, some items in stock. Call for additional information: 1 800 537 7518.

Plastic Pipe Accessories

Part Number	Description
Tracer Tape	1000 ft Roll metal tracer tape Silver with yellow stripes
Tracer Wire	2500 ft roll Tracer Wire 14 AWG UF 600V heavy insulation Yellow
Tracer Wire 500	500 ft roll Tracer Wire 14 AWG UF 600V heavy insulation Yellow
Marker	5 ft yellow pipeline marker with CAUTION decal
Snipper	#5190 Cutting Tool for Plastic & Rubber up to 1" OD



TRACER TAPE



TRACER WIRE



SNIPPER



99-0118

Cable Hound Underground Cable and Pipe Locator

- Locates buried cable up to 4 feet deep
- Provides both location and depth
- Battery operated, lightweight and portable
- Designed for use with Tracer wire

MARKER



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Gas Appliance Connectors

Thermoplastic Pipe

Stainless Steel Gas Appliance Connectors			
1/2" OD (3/8" ID) with 1/2" MNPT x 1/2" FNPT ends		5/8" OD (1/2" ID) with 3/4" MNPT x 3/4" FNPT ends	
Length	Part Number	Length	Part Number
12"	CG-121212MF-12	12"	CG-583434MF-12
18"	CG-121212MF-18	18"	CG-583434MF-18
24"	CG-121212MF-24	24"	CG-583434MF-24
36"	CG-121212MF-36	36"	CG-583434MF-36
48"	CG-121212MF-48	48"	CG-583434MF-48
60"	CG-121212MF-60	60"	CG-583434MF-60

Black Appliance Connectors	
3/8" OD (1/4" ID) - 3/8" MNPT x 1/2" FNPT ends	
Length	Part Number
12"	CGB-383812MF-12
18"	CGB-383812MF-18
24"	CGB-383812MF-24
36"	CGB-383812MF-36
48"	CGB-383812MF-48



CG-121212MF-12

Yellow Coated Gas Appliance Connectors	
1" OD (3/4" ID) with 3/4" MNPT x 3/4" FNPT ends	
Length	Part Number
24"	C-GCY-103434MF-24
36"	C-GCY-103434MF-36

Flexible Non-Metallic Pipe for Propane (Liquid & Vapor)



Crimper and dies



Standard coil length 660'



Cross fiber braid

Longitudinal fiber braid

Product requires approval from Authority Having Jurisdiction (AHJ) before installation. The construction standard for this product is not specifically referenced in NFPA 58.

Part No.	Tubing Size O.D.	Operating Pressure psi	Std. Coil Length	Min. Bend Radius	Coupling Output Male NPT	Coupling Part No.
LP1025	1-1/4"	500	660	1.97'	3/4"	MC20075-NPT
LP1050	1-1/2"			1.97'	1"	MC25100-NPT
LP1075	1-3/4"			2.3'	1-1/4"	MC32125-NPT
Crimper & Dies		Install continuous propane lines from tank to grain dryers eliminating all buried inaccessible joints. Just cut, crimp and bury. Reduce installation time and costs... hours vs days No corrosion. With CGH Belgium's reinforced thermoplastic pipe (RTP) smaller pipe diameter gives identical flow as larger steel pipes Less pressure drop.				
KD160SH	Crimper					
T420-34Red	34 mm Die					
T420-39Black	39 mm Die					
T420-45Black	45 mm Die					

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Gastite© Corrugated Stainless Steel Tubing

(Continued next two pages)



Electrical bonding of Gastite CSST

This technical bulletin provides requirements for the direct bonding of Gastite CSST. These requirements supersede any prior documents and are mandatory manufacturer's instructions until such time as requirements are adopted by the appropriate national/state model codes and direct bonding installation instructions are specified therein. This document replaces Technical Bulletin TB2007-01 and Section 4.10 Electrical Bonding/Grounding of the January 2008 Gastite Design and Installation Guide. This technical bulletin is effective for all Gastite CSST installed from this date forward. Direct bonding of Gastite CSST is required for all gas-piping systems incorporating Gastite CSST whether or not the connected gas equipment is electrically powered. This requirement is provided as part of the manufacturer's instruction for single-family and multi-family buildings. A person knowledgeable in electrical system design, the local electrical code and these requirements should specify the bonding for commercial applications. Gastite CSST installed inside or attached to a building or structure shall be electrically continuous and direct bonded to the electrical ground system of the premise in which it is installed. The gas piping system shall be considered to be direct bonded when installed in accordance with the following. The piping is permanently and directly connected to the electrical service equipment enclosure, the grounded conductor at the electrical service, the grounding electrode conductor (where of sufficient size) or to one or more of the grounding electrodes used. For single and multi-family structures, a single bond connection shall be made downstream of the individual gas meter for each housing unit and upstream of any CSST connection. The bonding conductor shall be no smaller than a 6 AWG copper wire or equivalent. The bonding jumper shall be attached in approved manner in accordance with NEC Article 250.70 and the point of attachment for the bonding jumper shall be accessible. Bonding/grounding clamps shall be installed in accordance with its listing per UL 467 and shall make metal-to-metal contact with the piping. This bond is in addition to any other bonding requirement as specified by local codes. For attachment to the CSST gas piping system, a single bonding clamp must be attached to either a segment of steel pipe or to a rigid pipe component.

The corrugated stainless steel tubing portion of the gas piping system shall not be used as the point of attachment of the bonding conductor at any location along its length under and circumstances. Proper bonding and grounding will reduce the risk of damage and fire from a lightning strike. Lightning is a highly destructive force. Even a nearby lightning strike that does not strike a structure directly can cause all electrically conductive systems in the structure to become energized. If these systems are not adequately bonded, the difference in electrical potential between the systems may cause the charge to arc from one system to another. Arcing can cause damage to CSST. Direct bonding and grounding as set forth above will reduce the risk of arcing and related damage over a non direct bonded system. Depending upon conditions specific to the location of the structure in which the Gastite system is being installed, including but not limited to whether the area is prone to lightning, the owner of the structure should consider whether a lightning protection system is necessary.

Part No	Description
FS-8-250	1/2" CSST Tubing Gastite - 250ft coil
FS-8-125	1/2" CSST Tubing Gastite - 125ft coil
FS-8-50	1/2" CSST Tubing Gastite - 50ft coil
FS-11-125	3/4" CSST Tubing Gastite - 125 ft coil
FS-11-250	3/4" CSST Tubing Gastite - 250 ft coil
FS-11-50	3/4" CSST Tubing Gastite - 50 ft coil
FS-16-150	1" CSST Tubing Gastite - 150ft coil
FS-16-50	1" CSST Tubing Gastite - 50ft coil
FS-16-75	1" CSST Tubing Gastite - 75ft coil

Jacket Stripping Tool	
Part No	Description
STRP3-8	1/2" Jacket Stripper
STRP3-11	3/4" Jacket Stripper
STRP3-16	1" Jacket Stripper

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Gastite© Corrugated Stainless Steel Tubing (cont.)

- The industry's only metallically shielded CSST.
- The only LC1027 certified CSST
- Withstands nearly 95% of lightning strikes versus competitor's around 5%.
- XR3™ fitting provides shield-to-fitting continuity with metal mesh

Part No.	Description
XR3FTG-8	1/2" straight fitting tube - 1/2" NPT Gastite CSST
XR3FTG-11	3/4" straight fitting tube - 3/4" NPT Gastite CSST
XR3FTG-16	1" straight fitting tube - 1" NPT Gastite CSST
Part No.	Description
XR3CPL-8	1/2" coupling Gastite CSST
XR3CPL-11	3/4" coupling Gastite CSST
XR3CPL-16	1" coupling Gastite CSST



XR3CPL-8

Part No	Description
TFM201	3" x 7" Half Striker Plate for CSST Gastite
TFM204	3" x 2" Quarter Striker Plate for CSST Gastite
TFM205	3" x 12" Full Striker Plate for CSST Gastite
TFM210	6" x 17" Long Striker Plate for CSST Gastite
FLOPPY12	3/4" Coil Steel Conduit fits 3/8" CSST Gastite (50 ft/coil)
FLOPPY16	1" Coil Steel Conduit fits 1/2" CSST Gastite (50ft/coil)
FLOPPY20	1-1/4" Coil Steel Conduit fits 3/4" CSST Gastite (25ft/coil)
FLOPPY24	1-1/2" Coil Steel Conduit fits 1" CSST Gastite (25ft/coil)
MSTRAPS6	Metal Tubing Strap - Fits 3/8" Gastite CSST (250 per box)
MSTRAPS8	Metal Tubing Strap - Fits 1/2" Gastite CSST (250 per box)
MSTRAPS11	Metal Tubing Strap - Fits 3/4" Gastite CSST (150 per box)
MSTRAPS16	Metal Tubing Strap - Fits 1" Gastite CSST (100 per box)
ANGLE STUB-01-10	1/2"M x 4-1/2"L x 72.5° Angle Stub for Fireboxes Gastite CSST



STRIKER PLATES
AND CONDUITS

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Gastite© Corrugated Stainless Steel Tubing (cont.)



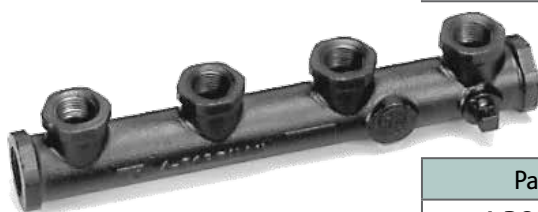
XR3T-8

Part No.	Description
XR3T-8	1/2" tee fitting Gastite CSST
XR3T-11	3/4" tee fitting Gastite CSST
XR3T-16	1" tee fitting Gastite CSST
Part No.	Description
XR3TRM-8	1/2" termination fitting - cast flange 1/2" NPT
XR3TRM-11	3/4" termination fitting - cast flange 3/4" NPT
XR3TRM-16	1" termination fitting - cast flange 1" NPT
Note: Fittings available without the flange	



XR3TRM
TERMINATION
FITTING

Part No	Description
1/2X12STUB	1/2" M x 12" L Straight Stub Gastite CSST
1/2X6STUB	1/2" M x 6" L Straight Stub Gastite CSST
1X12STUB	1" M x 12" L Straight Stub Gastite CSST
1X6STUB	1" M x 6" L Straight Stub Gastite CSST
3/4X12STUB	3/4" M x 12" L Straight Stub Gastite CSST
3/4X6STUB	3/4" M x 6" L Straight Stub Gastite CSST
XRAPSTUB11	1/2" M x 1/2" M x 1-1/2" Stub length with 3/4" female fitting Gastite CSST
XRAPSTUB11-11	3/4" M x 3/4" M x 1-1/2" Stub length with 3/4" female fitting Gastite CSST
XRAPSTUB8	1/2" M x 1/2" M x 1-1/2" Stub length with 1/2" female fitting Gastite CSST



4-PORTMAN

Part No	Description
4-PORTMAN	Four ports 3/4" F by 1/2" F x 1/2" F Gastite CSST

Part No	Description
GTCUTTER SM	Cutter with flat rollers for 3/8" - 1" Gastite CSST
GTCUTTER LG	Cutter with flat rollers for up to 2" Gastite CSST
GTBLADE LG	Replacemt Blade for GTCUTTER LG Gastite CSST pkg of 5 blades
GTBLADE SM	Replacemt Blade for GTCUTTER SM Gastite CSST pkg of 5 blades

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Blue Handle Brass Ball Valves

Designed for use with
LP Gas and Natural Gas.
UL Listed.
600 WOG pressure rated.

Jomar R602 Series Pipe Thread

Part Number	Inlet	Outlet	Box Qty
R60238	3/8" FNPT	3/8" FNPT	12
R60212	1/2" FNPT	1/2" FNPT	12
R60234	3/4" FNPT	3/4" FNPT	12

R60212



R602FF12



Jomar R602 Series Flare

Part Number	Inlet	Outlet	Box Qty
R602F38	3/8" Flare	1/2" FNPT	14
R602F12	1/2" Flare	1/2" FNPT	14
R602FF-38	3/8" Flare	3/8" Flare	12
R602FF12	1/2" Flare	1/2" Flare	12
R602FF58	5/8" Flare	5/8" Flare	12
R602FM-38	3/8" Flare	1/2" MPT	12
R60212M	1/2" Flare	1/2" MPT	12

R602F12



Jomar R602 Series Side Tap

Part Number	Inlet	Outlet	Box Qty
R602S14	1/4" FNPT	1/4" FNPT	10
R602S38	3/8" FNPT	3/8" FNPT	10
R602S38FF	3/8" Flare	3/8" Flare	15
R602S12	1/2" FNPT	1/2" FNPT	10
R602S12FF	1/2" Flare	1/2" Flare	12
R602S34	3/4" FNPT	3/4" FNPT	10
R602S58FF	5/8" Flare	5/8" Flare	15
R602S1	1" FNPT	1" FNPT	6

R602S12



R602S12FF

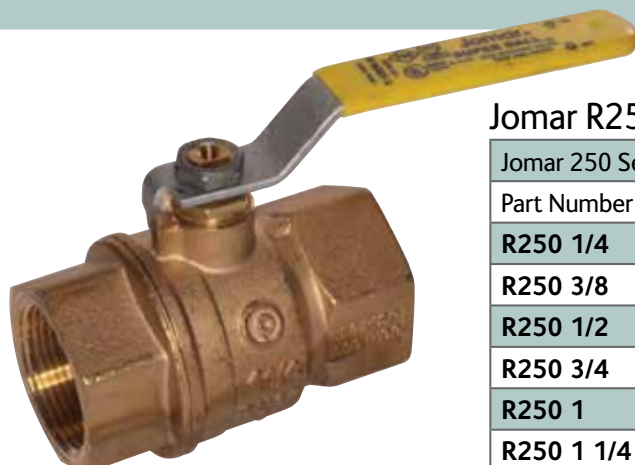


Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Full Port Ball Valves



Jomar 'Full Port' Ball Valves
'Economical
- Good All Purpose
Propane Valve'
Forged brass body, chrome plated ball, double Viton o-rings, UL Listed for liquid propane, 500 WOG rated, with PTFE modified seats.



R250 1 1/4



Jomar R250 Series Ball Valves

Jomar 250 Series Ball Valves	
Part Number	Size
R250 1/4	1/4" FNPT
R250 3/8	3/8" FNPT
R250 1/2	1/2" FNPT
R250 3/4	3/4" FNPT
R250 1	1" FNPT
R250 1 1/4	1 1/4" FNPT
R250 1 1/2	1 1/2" FNPT
R250 2	2" FNPT
R250 3	3" FNPT
R250FM 1/2	1/2" FNPT X 1/2" MNPT
R250FM 3/4	3/4" FNPT X 3/4" MNPT
R250S 1 1/4	1 1/4" FNPT w/ Side Tap
R250S 1 1/2	1 1/2" FNPT w/ Side Tap
R250S 2	2" FNPT w/ Side Tap

Repair Parts for Jomar R250 Series Ball Valves

Part Number	Size
899-701	1/4", 3/8", 1/2" Handle
899-704	3/4" Handle
899-705	1" & 1 1/4" Handle
899-708	1 1/2" & 2" Handle
899-710	3" Handle
210-995	3/4" Lift N Lock Handle
210-996	1" & 1 1/4" Lift N Lock Handle
210-997	1 1/2" & 2" Lift N Lock Handle



Jomar Stainless Steel Ball Valves

1/4 turn, latch-lock, lever handle operated, CF8M stainless steel body with 316 stainless steel ball and stem, 100% full port, blow-out proof stem, and 2-piece body design. Pressure rating 1000 WOG/150 WSP

Jomar Full Port Stainless

Part Number	Size
100-961	1/4" FNPT
100-963	1/2" FNPT
100-964	3/4" FNPT
100-966	1 1/4" FNPT
100-967	1 1/2" FNPT
100-968	2" FNPT



bergquistinc.com

Apollo 'Full Port' Bronze Ball Valves

Apollo Stainless Steel Ball Valves

Apollo 'Standard Port' Bronze Ball Valves

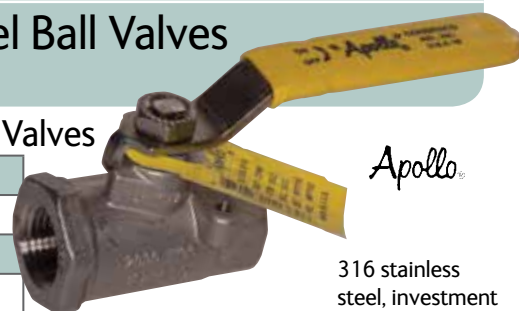
Model Number	Size
77-106	1 1/4" FNPT
77-107	1 1/2" FNPT
77-108-01	2" FNPT

Apollo '77 Series' Repair Parts

Part Number	Description
RK70-007	1 1/4" Seal Kit
RK70-008	1 1/2" Seal Kit
78-020-01	2" Seal Kit
W5648-00	1 1/4" Handle
W6356-00	1 1/2" & 2" Handle

Apollo Stainless Steel Ball Valves

Part Number	Size	Pressure
76-101	1/4" FNPT	2000 WOG
76-102	3/8" FNPT	2000 WOG
76-103	1/2" FNPT	2000 WOG
76-104	3/4" FNPT	2000 WOG



76-103

Apollo

316 stainless steel, investment cast components, reinforced TFE seats, with stainless steel lever and nut.

77-107



Apollo full port, 600 WOG, with chromium plated ball, and reinforced tee packing. Designed for easy actuator mounting.

Apollo Standard Port Ball Valves

Part No.	Thread Size FNPT	Port Diameter	Valve Length
80-101	1/4"	3/8"	2 1/16"
80-102	3/8"	3/8"	2 1/16"
80-103	1/2"	1/2"	2 1/4"
80-104	3/4"	11/16"	3"
80-105	1"	7/8"	3 3/8"
80-106	1 1/4"	1"	4"
80-107	1 1/2"	1 1/4"	4 3/8"
80-108	2"	1 1/2"	4 11/16"
80-100	3"	2 1/2"	6 3/4"

Apollo Full Port Ball Valves



80-108

Apollo '80 Series' Repair Parts

Part Number	Description
RK70-004	Seal Kit 3/4" Valve
RK70-005	Seal Kit 1" Valve
RK70-006	Seal Kit 1 1/4" Valve
RK70-007	Seal Kit 1 1/2" Valve
RK70-008	Seal Kit 2" Valve
RK70-009	Seal Kit 3" Valve
W5640-00	Handle 1/4", 3/8", 1/2" Valve
W5644-00	Handle 3/4" Valve
W5648-00	Handle 1" & 1 1/4" Valve
W6356-00	Handle 1 1/2" & 2" Valve
W-5653-00	Handle 3" Valve

UL Listed for propane gas and flammable liquids, 600 WOG, with chromium plated ball, and TFE packing.

Marpac Full Port Ball Valves



CSB790TT112



Union End Valves

Marpac union end valves are constructed with steel bodies and carbon steel union ends. These valves feature full flow ports, teflon seals, and union ends for ease of installation.

MARPAC

Marpac Union End Valves

Part Number	Size	Style	Valve Length	Pressure Rating
CSB790TT34	3/4" FNPT	Union End	4 1/2"	1000 CWP
CSB790TT1	1" FNPT	Union End	4 15/16"	1000 CWP
CSB790TT114	1 1/4" FNPT	Union End	5 3/8"	1000 CWP
CSB790TT112	1 1/2" FNPT	Union End	5 7/8"	1000 CWP
CSB790TT2	2" FNPT	Union End	6 7/8"	1000 CWP

Repair Parts For Marpac Union End Valves

Kit Number	Description
5807ETT	1" B790 Seal Kit
5807FTT	1 1/4" B790 Seal Kit
5807GTT	1 1/2" B790 Seal Kit
5807HTT	2" B790 Seal Kit
9109KTT	3" D1800 Seal Kit



bergquistinc.com



Jomar 3 piece, four bolt, 100% full port. 316 stainless steel body, ball, stem and latch handle. UL Listed for liquid propane, 1000 WOG with new 2nd. generation PTFE modified seats.

Model Number	Size
500-306	1 1/4" FNPT
500-307	1 1/2" FNPT
500-308	2" FNPT
500-310	3" FNPT



500-307

Jomar four bolt, 100% full port ball valve. Carbon steel body with 316 stainless steel ball and stem, and standard latch handle. 1000 WOG. UL Listed for liquid propane. New generation PTFE modified seats.

Model Number	Size
500-406	1 1/4" FNPT
500-407	1 1/2" FNPT
500-408	2" FNPT



500-407

Jomar four bolt, 100% full port ball valve. Carbon steel valve same as the 500-400 Series, but with socket weld ends.

Model Number	Size
500-506	1 1/4" Socket Weld
500-507	1 1/2" Socket Weld
500-508	2" Socket Weld



500-508

Apollo carbon steel, full port ball valve. 1000 WOG. Reinforced TFE seats and seals with a chromium plated ball. In-line repairable.

Model Number	Size
83-106	1 1/4" FNPT
83-107	1 1/2" FNPT
83-108	2" FNPT



Apollo

83-107

Repair Parts For 4 Bolt Ball Valves Only

Part No.	Description	For Valve
899-916	Seal Kit	1 1/4" Jomar
899-917	Seal Kit	1 1/2" Jomar
899-918	Seal Kit	2" Jomar
899-908	Handle (TCS10004B)	All Jomar
82-006-01	Seal Kit	1 1/4" Apollo 83 Series
82-007-01	Seal Kit	1 1/2" Apollo 83 Series
82-008	Seal Kit	2" Apollo 83 Series
W5648-00	Handle	1 1/4" Apollo 83 Series
W6356-00	Handle	1 1/2" & 2" Apollo 83 Series

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Apollo Ball Valves with Deadman Return Spring



Part Number	Description
76-501	1/4" FPT Apollo SS Ball Valve
76-502	3/8" FPT Apollo SS Ball Valve
76-503	1/2" FPT Apollo SS Ball Valve

Jomar Stainless Steel Ball Valves



T-SS-2000N-DH



Features

- Stainless steel spring return handle
- Two-piece standard port
- For LP gas and anhydrous ammonia 250 psi max
- Pressure rating: 2000 WOG/150 WSP
- Hostaflo® TFM 1600 seats and stem packing
- 316 stainless steel ball and stem
- Solid ball construction
- 29 in-HG vacuum rating
- Latch lock may be locked in open or closed position
- 1 1/4" - 2" 3 piece, 4 bolt pattern

Part Number	Description
100-931DH	1/4" FPT Jomar SS Ball Valve
100-932DH	3/8" FPT Jomar SS Ball Valve
100-933DH	1/2" FPT Jomar SS Ball Valve
100-934DH	3/4" FPT Jomar SS Ball Valve
100-935DH	1" FPT Jomar SS Ball Valve
100-936DH	1 1/4" FPT Jomar SS Ball Valve
100-937DH	1 1/2" FPT Jomar SS Ball Valve
100-938DH	2" FPT Jomar SS Ball Valve

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



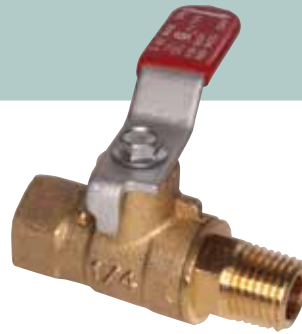
bergquistinc.com

Special Application Ball Valves

Jomar 100-299

Brass body, 1/4" MNPT x 1/4" FNPT, 600 WOG

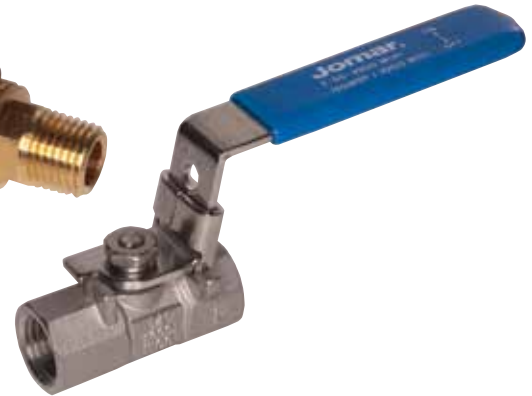
For use in bleed down or blow down applications.



Jomar 500-101

1/4" FNPT, steel construction, with locking handle 1000 WOG

Construction heater applications.



Jomar 100-953

1/2" carbon steel, with locking handle, 2000 WOG

Multi use.

Apollo 73-103

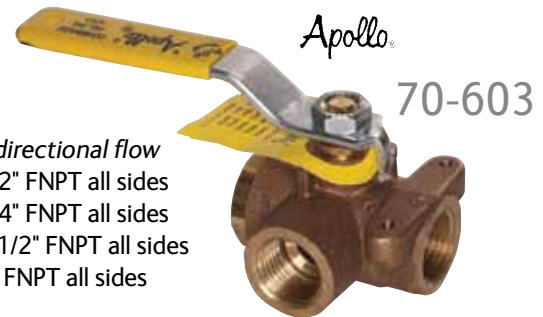
1/2" carbon steel, 2000 WOG

Also available in 1/4"...73-101

Multi use.



73-103
Apollo



Apollo 70-600 Series

Three way valve, 400 WOG

Use with purging systems or for multi-directional flow

Stocked in four sizes...

70-603 - 1/2" FNPT all sides

70-604 - 3/4" FNPT all sides

70-607 - 1 1/2" FNPT all sides

70-608 - 2" FNPT all sides

70-603
Apollo

Jomar 240-004B & 241-004B Lockable Meter Stop

Jomar 240-004B &

241-004B Lockable Meter Stop

Full port, hot forged brass body, CSA Certified,

175 psig certified, 3/4" FNPT

241 series includes a dielectric union



241-004B



240-004B

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Marshall Excelsior Full Port Globe and Angle Valves



ME825-16



ME815-16



ME829

Marshall Excelsior's globe and angle valves provide a positive shut-off that is highly reliable with full flow performance. The globe valve seat area is tilted to a 30° angle for maximum product flow. Valve is ergonomically correct for Bobtail, Transport and Bulk Plant applications.

All stainless steel internal components with rotating seat disc design and V-cup Teflon packing stem seals. Ductile iron body and flange cap with automotive grade powder coat finish. Standard nitrile seat seal, also available with optional Teflon and Viton seat seal. 1/4" FNPT plugged accessory ports upstream and downstream of valve seat.

Available with the E-Z turn knob feature for easier valve operation.

Part Number	Inlet	Outlet	Body Style
ME815-4	1/2" FNPT	1/2" FNPT	Angle
ME815-6	3/4" FNPT	3/4" FNPT	
ME815-10	1 1/4" FNPT	1 1/4" FNPT	
ME815-16	2" FNPT	2" FNPT	
ME815-24 ⁽¹⁾	3" FNPT	3" FNPT	
ME825-4	1/2" FNPT	1/2" FNPT	Globe
ME825-6	3/4" FNPT	3/4" FNPT	
ME825-8	1" FNPT	1" FNPT	
ME825-10	1 1/4" FNPT	1 1/4" FNPT	
ME825-16	2" FNPT	2" FNPT	
ME825-24 ⁽¹⁾	3" FNPT	3" FNPT	
ME826-10	1 1/4" FNPT	1 3/4" M Acme	
ME827-10	1 1/4" FNPT	2 1/4" M Acme	
ME828-16	2" FNPT	3 1/4" M Acme	

To order Teflon or Viton Seal add "T" or "V" after the prefix Part Number

(1) Includes EZ turn knob as standard equipment

Accessories

Part Number	Description
MEH225	1/4" MNPT Hydrostatic Relief Valve 440 psig - 1 1/16" OAL Brass
MEH225SS	1/4" MNPT Hydrostatic Relief Valve 440 psig - 1 1/16" OAL Stainless Steel
MEH425/450	1/4" MNPT Hydrostatic Relief Valve 450 psig - 1 59/64" OAL Brass
MEJ402S	1/4" MNPT Liquid Vent Valve w/ Tee Handle - Stainless Steel
ME829	Universal E-Z Turn Knob & Bolt Kit

Replacement Parts

ME815-10BRK	1 1/4" Angle & Globe Valve Complete Bonnet Assembly
ME815-10SRK	1 1/4" Angle & Globe Valve Replacement Seal Repair Kit
ME815-16BRK	2" Angle & Globe Valve Complete Bonnet Assembly
ME815-16SRK	2" Angle & Globe Valve Replacement Seal Repair Kit
ME816-10/16HRK	1 1/4" & 2" Angle & Globe Valve Replacement Handle & Retaining Nut
ME815-24BRK	3" FNPT Angle & Globe Valve Replacement Bonnet Assembly
ME815-24HRK	3" FNPT Angle & Globe Valve Replacement Hand Wheel Kit
ME815-24SRK	3" FNPT Angle & Globe Valve Replacement Seal Ki



bergquistinc.com

Marshall Excelsior Next Generation 2" Globe and Angle Valves

Marshall Excelsior's Next Generation 2" Globe and Angle valves provide a positive shut-off valve that is highly reliable with full flow performance while permitting bi-directional flow and/or reduced product emissions.

These valves have all of the same great features of the original full flow MEC Globe and Angle valves with additional product performance enhancements.



~ Pilot Feature: (P) These globe and angle valve models incorporate a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

~ Integrated Back Check Feature: (IBC) These globe and angle valve models incorporate an integrated back check feature to allow trapped downstream pressure to automatically bypass to the upstream side of the valve. These valves are designed for systems with flow in one direction, creating a closed loop system that prevents the product from relieving to the atmosphere making for a low emission, more environmentally friendly option.



Pilot

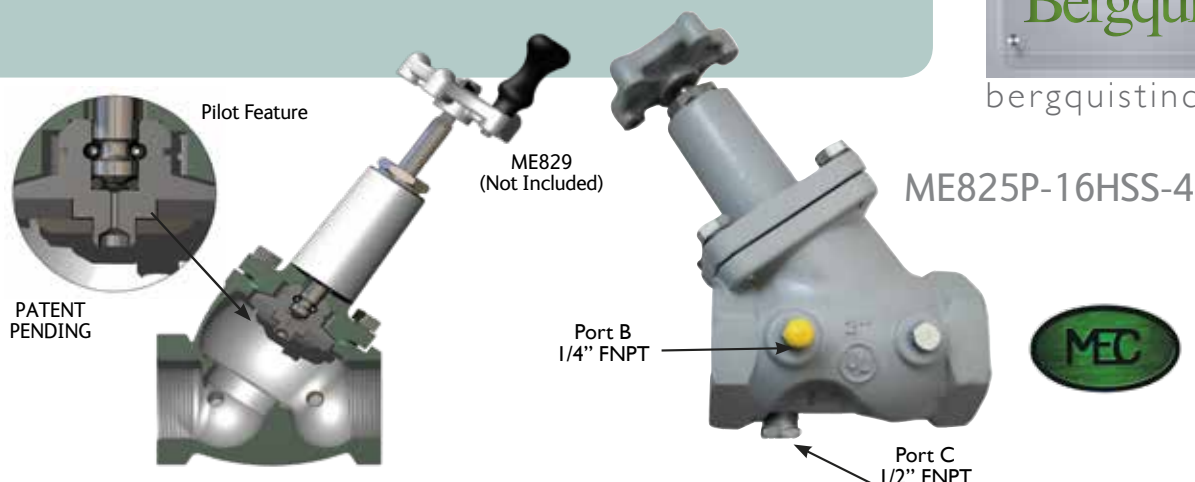


IBC

Marshall Excelsior Next Generation 2" Globe and Angle Valves

Angle Part No	Globe Part No	Description	Side Ports	Inlet	Outlet
ME815P-16	ME825P-16	Full flow valve with Integrated Pilot Feature	1/4" FNPT	2" FNPT	2" FNPT
-	ME828P-16				3 1/4" M Acme
-	ME824P-16		1/2" FNPT		2" FNPT
ME815IBC-16	ME825IBC-16	Full flow valve with Integrated Back Check	1/4" FNPT		3 1/4: M Acme
-	ME828IBC-16				2" FNPT
-	ME824IBC-16		1/2" FNPT		
Replacement Parts					
Part Number		Description			
ME815IBC-16BRK		2" angle & globe valve with integrated back check - complete bonnet assembly			
ME815IBC-16SRK		2" angle & globe valve with integrated back check - seal replacement kit			
ME815-10/16HRK		1 1/4", 1 1/2" & 2" angle & globe valve replacement handle & retaining nut			

Next Generation 2" Bottom Port Globe Valves



Part No.	Description	1/4" FNPT Side Port A	1/4" FNPT Side Port B	1/2" FNPT Bottom Port C	Inlet/Outlet
ME825P-16-4	Full Flow Valve with Integrated Pilot Feature	Plugged	Plugged	Plugged	2" FNPT
ME825P-16H-4	Full Flow Valve with Integrated Pilot Feature	Plugged	MEH225	Plugged	2" FNPT
ME825P-16HSS-4	Full Flow Valve with Integrated Pilot Feature	Plugged	MEH225SS	Plugged	2" FNPT

Provides a positive shut-off valve that is highly reliable with full flow performance while providing bi-directional flow. Ideally suited for use on transport trailers with 1/2" blow down lines to provide rapid and complete product evacuation prior to disconnecting the transfer hose. Valves can be purchased with hydrostatic relief valves pre-installed in the side port of the globe valve downstream of the main seal.

- All of the same great features of the original full flow MEC globe valves with additional product performance enhancements.
- **Pilot Feature:** (P) These globe valve models incorporate a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

Push-To-Turn Locking Handwheel Kit

Helps prevent accidental opening of any 1-1/4", 1-1/2", or 2" MEC angle or globe valve configuration. Once installed the kit requires the operator to push down on the hand wheel to engage the valve stem in order to open or fully close the valve making it a deliberate action to actuate.



- Kit is 100% reverse compatible with all 1-1/4", 1-1/2" and 2" MEC model angle & globe valves.
- Vinyl coated spring to prevent contact with stem seal surface
- Includes: handwheel, spring, and all mounting hardware



ME815-16LHK

Note: MEC strongly recommends use of ME829 EZ-Turn Handwheel knob to promote ease of use for this product (NOT INCLUDED IN ME815-16LHK KIT).

Part No.	Description
ME815-16LHK	Push-To-Turn Locking Handwheel Kit for all 1-1/4", 1-1/2" & 2" MEC Angle / Globe Valve

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com



Forklift Cylinder Valves



802064

Forklift Equipment

Forklift Equipment					
Cavagna Part Number	Marshall Excelsior Part Number	RegO Part Number	Inlet Connection	Outlet Connection	Comments
802064	ME9101P5H	9101P5H	3/4" MNPT	3/8" MNPT	Forklift Liquid Valve
661024	ME220M	7141M	3/8" FNPT	1 1/4" M Acme	Service Adaptor
661023	ME220F	7141F	1 1/4" F Acme	1/4" FNPT	Service Adaptor
	ME220FSN		1 1/4" F Acme	1/4" FNPT	Moto Seal Low Emission Service Adaptor
660248	MEV75FIR	8545AK	3/4" MNPT		Relief Valve
661122	ME601-6		3/4" MNPT	1 3/4" M Acme	Filler Valve
	MEJ410-054 MEJ410-066		1/4" MNPT		Fixed Liquid Level Gauge, specify dip tube length

Miscellaneous Forklift Equipment

Part Number	Description
MSW4P	Forklift connector washer, bag of 100
M-456	Inline Thermostat for Engine Cooling, 5/8" hose barb
M-456-1	Inline Thermostat for Engine Cooling, 3/8" FTP (both ends)
2-114A	Forklift "O" Ring, inside of MSW4, bag of 100
WB-FL-RK	Starter Kit for replacing Forklift Liquid Tubes
FLDT	Replacment Liquid Tube for 33# Cylinders
FLDT43	Replacment Liquid Tube for 43# Cylinders
ME790	Filler Connector, 1 1/4 F Acme x 1/4" MNPT
ME790SN	Moto Seal Low Emission Filler Connector, 1 1/4 F Acme x 1/4" MNPT
ME795-3-02	Rubber seal tip replacement for ME795, ME220FSN & ME790SN
MEJ400/72	Low Emission Brass Vent Valve #72 Orifice
MEJ405	Low Emission Retro Fit Vent Valve connects in existing valve
MEJ410-054	Vent Valve with Dip Tube with 5.4" diptube
MEJ410/72-5.4	Low Emission Brass Vent Valve with 5.4" dip tube
MEJ410-066	Vent Valve with Dip Tube with 6.6" dip tube
MEJ410/72-6.6	Low Emission Brass Vent Valve with 6.6" dip tube
129A006	Air actuated automated filling head for forklift cylinders



661024



ME790

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Cylinder Valves and Repair Kits



bergquistinc.com



3250BC-312



805016

Cylinder Valves

Part Number	Description
802146	FPOL service valve, no relief, 3/4" MNPT, 1.5 GPM excess flow
805016	100# cylinder valve with spitter, 375 psi relief
806032	Heavy duty, up to 200# cylinder valve with spitter
802146	FPOL service valve, no relief, 3/4" MNPT, no dip tube
MES-PVE3250CLG-11.6	100# cylinder valve with spitter, 375 psi relief
MES-PVE-3250CLM-11.6	100# cylinder valve for liquid with excess flow check and dip tube
MES-PVE3250BC-312	RV valve, 312 psi relief, FPOL x 3/4" MNPT
3329BDB	FPOL service valve, no relief, 3/4" MNPT, no dip tube
9107K8A	100# cylinder withdrawal valve, male CGA 555, excess flow
9103D1.6	100# cylinder valve, 11.6" dip tube, 375 psi relief

Note: 2 lb. to 40 lb. cylinders for vapor service are required to have a fixed maximum liquid level gauge (spitter). The liquid level gauge can be separate or part of the cylinder valve.

Note: 2 lb. to 40 lb. cylinders for vapor service are required to have a fixed maximum liquid level gauge (spitter). The liquid level gauge can be separate or part of the cylinder valve.

MEC Valve Repair Parts

MEC Valve Repair Parts			
Valve Number	3329, 3250BC, 2030BC, 2034CLT, 1447C, 1449	ME662, ME665, 3329, 3250BC, 2034CLT, 1447C, 1449	2035A, 3250C/CLG/ALG7T/ADT-7, CLM, 1427B, 1447B
Handwheel		ME662-102	MES1901S
LH Bonnet, Stem, Seat assy. & O-ring	MES3329-13LHK		MES3250-8LHK

Miscellaneous Valve Repair Parts

Valve Number Description	1477, 2594, 3100, 7100, 6477, 2593	8100	901, 903, 6533D, 6543D, 8555S	9101C/D, 6532A, 6533A, 6542A, 6543A, 7556V, 8593A, G8475, 8555D/DL	8547W	6532, 6533R, 6542R, 6543R, 7556R, G8475R, 8555R, 8593R, 9101R
Handwheel	9107-31	9107-31	9107-31	---	9107-31	903-31
Diaphragm, bonnet & stem ass'y.	---	8100-50	---	---	---	---
Diaphragm ass'y.	3100-80B	---	---	---	---	---
Bonnet, valve stem, O-ring ass'y.	---	8100-50	---	---	---	---
Conversion kit	3100-81K	---	---	---	---	---
Bonnet ass'y., handwheel screw & washer	---	---	903-50 (L) 903-51 (S)	19100-50B	---	19104-50
Multi bonnet conversion kit	---	---	---	19104-50	---	---
Upper packing nut for multi-bonnet	---	---	---	---	---	19104-80

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Cylinder OPD and QCC Valves

OPD Valves

Part Number	Dip Tube Length	Fits Cylinder	Connection Type	Manufacturer
V21113	3.0"	5# Steel	QCC1	Cavagna
808109	4.8"	30# Steel		
808110	6.5"	40# Steel		
V21130	3.6"	10# Steel		
808107	4.0"	20# Steel		
V21464¹	4.0"	20# Steel	QCC1	Manchester
PV3004A	5.8	30# Aluminum		Emerald Isle
PV4004A	7.0"	40# Aluminum		
ME392P	1 5/16" FACME sealing brass cap protects threads during refurbishment			Marshall Excelsior
94QC1	QCC1 plastic valve cover cap pre-bagged quantity-25			

(1) Sureflame® Float valve and gauge dial, replacement dial part no V21462



808107



Part No.	Description
Tear Cap	Single use plastic cover with pull tab cap

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Tank Valves



bergquistinc.com



661261

Filler Valves

Filler Valves				
Part Number	Container Connection	Service Connection	Manufacturer	
661122	3/4" MNPT	1 3/4" M Acme	Cavagna	
ME600-6 (1)			Marshall Excelsior	
7647SC			RegO	
661232	1 1/4" MNPT		Cavagna	
661261 (2)				
661262 (2)			Marshall Excelsior	
ME601-10				
(1) Marshall Excelsior Flow-Max tank filler valves are lockable				
(2) Filler valves include a shutoff at 90° (661261) or straight (661262)				



661122

Vapor Return Valves

Part Number	Description
1876	1 1/4" ACME x 3/4" MNPT, with excess flow
ME663	1 1/4" ACME x 3/4" MNPT, double check
ME664	1 1/4" ACME x 3/4" MNPT, single check

Note: A vapor coupling with a projected nozzle opens the back check to permit flow in both direction.



ME600



661154

Auto Stop Filler Valves

Part Number	Description
661154	Cavagna 80% Auto shut off valve 3/4 MNPT
LT3	Valve adaptor 3/4 FNPT x SR Head Flange
RK28095	O ring kit for repair of obsolete 28095 valve



1876

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Tank Valves



670720



670808



670807



MESPVE2035
AT-11.7



ME449



5137



ME458

Multi-Service Combination Valves

Part Number	Tank Connection	Outlet Connection	1 1/4 Vapor Connection	Comments
670720	3/4" MNPT	FPOL	Yes	Spitter in the middle
MES-PVE2098AT	2 1/2" FNPT	FPOL	Yes	Underground only, Float Gauge Flange
ME665	3/4" MNPT	FPOL	Yes	Spitter in the middle
670808	3/4" MNPT	FPOL	No	DOT 200#, 1 3/4" acme fill
8555D11.6	3/4" MNPT	FPOL	No	DOT 200#, 1 3/4" acme fill
8555DL11.6	3/4" MNPT	Male Hopane	No	1 3/4" acme/liquid withdrawal
2033CLDB	3/4" MNPT	FPOL	Yes	1/8" FPT pressure tap
MESPVE2030BC-11.6	3/4" MNPT	FPOL	No	DOT 200#, 1 3/4" acme fill
MESPVE2035AT-11.7	1" MNPT	FPOL	No	For DOT 420, 375 PSI Relief
ME662	1 1/2" MNPT	FPOL	No	1 3/4" acme fill
670807	2 1/2" FNPT	FPOL	Yes	Underground only, Float Gauge Flange
G8475RV	2 1/2" FNPT	FPOL	Yes	500 Gallon Tank Valve, Float Gauge Flange
G8475RW	2 1/2" FNPT	FPOL	Yes	1000 Gallon Tank Valve, Float Gauge Flange

Check Lock and Liquid Withdrawal Valves

Part Number	Container Connection	Service Connection	Comments
690010	3/4" MNPT	New Style, use with 661109 or ME458 adaptor	Excess Flow
5136	3/4" MNPT	New Style, use with 661109 or ME458 adaptor	Excess Flow
5137	1 1/4" MNPT	New Style, use with 661109 or ME458 adaptor	Excess Flow
7591U	1 1/4" MNPT	New Style, use with 661109 or ME458 adaptor	Excess Flow
ME458	-	3/4" FNPT	New Style Adaptor
661109	-	3/4" FNPT	New Style Adaptor
ME449	3/4" MNPT	3/4" FNPT	Handwheel Valve
ME449H	3/4" MNPT	3/4" FNPT	Hydrostat relief valve
ME449S	3/4" MNPT	3/4" FNPT	Handwheel Valve, Steel Body
ME449EXS/22	3/4" MNPT	3/4" FNPT	Handwheel Valve, Steel Body, Excess Flow
ME453	3/4" MNPT	3/4" FNPT	Old style adaptor
ME455	3/4" MNPT	3/4" MNPT	Old style adaptor
9107K8A	3/4" MNPT	#555 Male Hopane	100# Liquid Tube
3250ALM116	3/4" MNPT	#555 Male Hopane	Fixed Liquid Level Gauge
ME461	-	-	3/4" Check lock cap & gasket
ME461SS	-	-	3/4" Stainless steel check lock cap & gasket

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Multipurpose Filler/Withdrawal Valves



Intended for use as a high capacity combination filler and liquid withdrawal valve with a manual shut off device in LPG or NH₃ containers. These valves can be equipped with either a soft seat back check or excess flow feature that is internal to the container. Ideally suited for use in dispensing applications as a dual purpose high capacity tank filler valve as well as a liquid return line from the pump bypass valve.

Note: For proper operation and performance of the excess flow feature the manual shutoff must be completely open and back seated.

Multipurpose Filler / Withdrawal Valve Features

- Plated ductile iron body with 1/4" NPT auxiliary plugged port
- All stainless steel internal construction for maximum corrosion resistance
- Supplied with ACME cap & chain assembly
- V-cup Teflon® packing stem seals
- Rated 400 PSI / WOG
- Removable data plate



ME673DBC



ME673DEX

MEC Multipurpose Filler / Withdrawal Valves									
Part No.	Inlet (MNPT)	Fill Connection (M. Acme)	Withdrawal (FNPT)	*Fill Capacity GPM/LPG	Approximate Excess Flow Closing Flow		Back Check	Accessories	
					*Liquid GPM/ LPG	**Vapor SCFH/LPG		Hydrostatic Relief	Vent Valve
ME673DEX-6****	1-1/4"	1-3/4"	3/4"	100	58	27,000	No	MEH225***	MEJ400***
								MEH225SS	MEJ402S
ME673DEX-8****	1-1/4"	1-3/4"	1"	100	58	27,000	No	MEH225***	MEJ400***
								MEH225SS	MEJ402S
ME673DBC-6	1-1/4"	1-3/4"	3/4"	100	N/A	N/A	Yes	MEH225***	MEJ400***
								MEH225SS	MEJ402S
ME673DBC-8	1-1/4"	1-3/4"	1"	100	N/A	N/A	Yes	MEH225***	MEJ400***
								MEH225SS	MEJ402S

* For NH₃ Flow Rates Multiply by .90
 ** For NH₃ @ 100 PSI, Multiply by 1.6
 *** Brass accessories cannot be used for NH₃
 **** Available for 45 GPM NH₃ closing flow - e.i. ME673DEX-6/45

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Multipurpose Valves

Intended for use as a high capacity filler valve with a manual shut-off device in LPG or NH₃ containers. These valves can be equipped with either a soft seat back check or excess flow feature that is internal to the container. The excess flow version can also be used as a vapor equalizing valve typically found in NH₃ applicators and nurse tank applications.

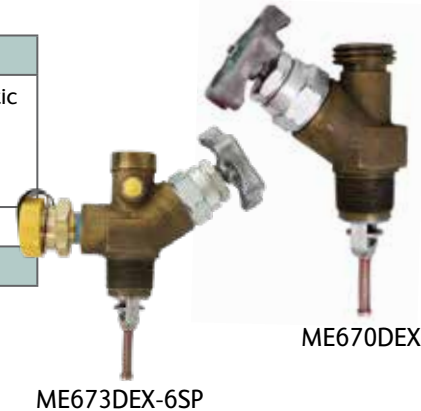
Note: For proper operation and performance of the excess flow feature the manual shutoff must be completely open and back seated.

MEC Multipurpose Filler Bypass Return Valve						
Part No.	Tank Connection (MNPT)	Fill Connection (M. Acme)	Bypass Return Port (FNPT)	Approximate Excess Flow Closing Flow		Hydrostatic Relief
				*Liquid GPM/LPG	**Vapor SCFH/LPG	
ME673DEX-6SP	1-1/4"	1-3/4"	3/4"	58	27,000	MEH225

Note: For use with LPG only

Multipurpose Valve Features

- Plated ductile iron body with 1/4" NPT auxiliary plugged port
- All stainless steel internal construction for maximum corrosion resistance
- Supplied with ACME cap & chain assembly
- V-cup Teflon® packing stem seals
- Rated 400 PSI / WOG
- Removable data plate



ME673DEX-6SP

ME670DEX

MEC Multipurpose Filler / Withdrawal Valves									
Part No.	Inlet (MNPT)	Fill Connection (M. Acme)	*GPM/LPG Fill Capacity	Approximate Excess Flow Closing Flow		Back Check	Accessories		
				*Liquid GPM/LPG	**Vapor SCFH/LPG		Hydrostatic Relief	Vent Valve	
ME670DBC	1-1/4"	1-3/4"	100	N/A	N/A	Yes	MEH225***	MEJ400***	
							MEH225SS	MEJ402S	
ME670DEX****	1-1/4"	1-3/4"	100	58	27,000	No	MEH225***	MEJ400***	
							MEH225SS	MEJ402S	

* For NH₃ Flow Rates Multiply by .90

*** Brass accessories cannot be used for NH₃

** For NH₃ @ 100 PSI, Multiply by 1.6

**** Available for 45 GPM NH₃ closing flow - e.i. ME670DEX/45

ME670DBC

The ME671DIBC is equipped with an integrated back check (IBC) feature built into the lower portion of the seat disc assembly. This feature allows liquid pressure built upstream of the shut-off disc assembly to automatically be relieved back to the container when line pressures exceed 10-25 PSI over container pressure. The (IBC) feature eliminates the need for hydrostatic relief valves to protect upstream piping or lines as well as greatly reducing product emissions and overall system safety.

MEC Multipurpose Withdrawal Valves						
Part No.	Inlet (MNPT)	Withdrawal (FNPT)	Approximate Excess Flow Closing Flow Liquid GPM/LPG*	Back Check	Accessories	
					Hydrostatic Relief	Vent Valve
ME671DIBC-6	1-1/4"	3/4"	50	No	N/A	MEJ400**
					N/A	MEJ402S
ME671DIBC-8***	1-1/4"	1"	58	No	N/A	MEJ400**
					N/A	MEJ402S
ME671D-6	1-1/4"	3/4"	50	No	MEH225**	MEJ400**
					MEH225SS	MEJ402S
ME671D-8***	1-1/4"	1"	58	No	MEH225**	MEJ400**
					MEH225SS	MEJ402S
ME672D	1-1/4"	1"	78	No	MEH225**	MEJ400**
					MEH225SS	MEJ402S

* For NH₃ Flow Rates Multiply by .90

** Brass accessories cannot be used for NH₃ service

*** Available for 45 GPM NH₃ closing flow - e.i. ME671D-8/45



ME671D-8

ME672D

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC Excelerator 1-1/4" Threaded Internal Valves

Continued next page



Intended for use on bobtail trucks and storage tanks with 1-1/4" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. For liquid or vapor service applications.

- Durable cast steel body with powder coat finish
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- UL LISTED for LPG & NH₃ service
- Available with 316 Stainless Steel Body
- Rulon™ bearing on stub shaft



Excelerator™
Internal Valves™



ME990M-10

	1-1/4" Valve Liquid Closing Flow Values
35	35 GPM LPG Closing Flow
55	55 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow
* For NH ₃ multiply GPM by .90	

Part No. *	Description
ME990-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - Only
New! ME990-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - Only
ME990A-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - with Pnuematic Actuator
New! ME990A-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - with Pnuematic Actuator
ME990AR-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - with Rotary Actuator
New! ME990AR-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - with Rotary Actuator
ME990M-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - with Manual Latch
New! ME990M-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - with Manual Latch
* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990-10-85 (85 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME990K-10-35 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME990N-10-35 To order Viton® add "V" for Viton® after the prefix part number i.e. ME990V-10-35	

Viton® and Kalrez® are trademarks of DuPont Performance Elastomers.

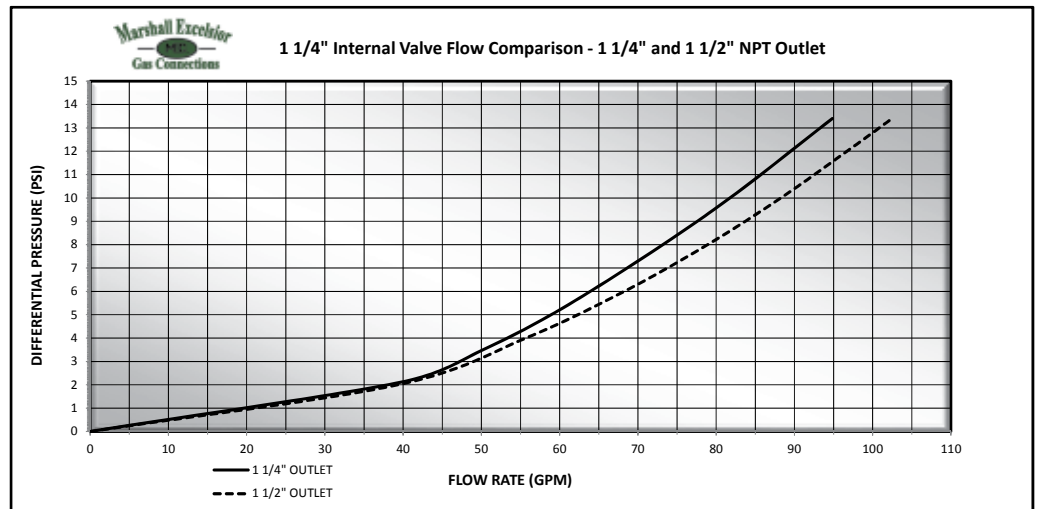
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEC Excelerator 1-1/4" Threaded Internal Valves Service and Repair Parts (cont.)

Excelerator™
Internal Valves™



ACCESSORIES	
Part No.	Description
ME990-10-902	Excelerator™ Manual Latch Assembly for 1-1/4" Threaded Internal Valves
MEP650	Open/Close Cable Control Release with 50' Cable
MEP651	Open/Close Cable Control Release - Only
ME205	Fastroke Actuator
ME225	PowerTorq Direct Drive Actuator

SERVICE KITS & REPAIR PARTS	
Part No.	Description
ME990-10-VRK	Excelerator™ 1-1/4" Internal Valve Complete Valve Repair Kit
ME990-10-SRK	Excelerator™ 1-1/4" Internal Valve Seal Repair Kit
ME990-10-PGA	Excelerator™ 1-1/4" Internal Valve Packing Gland Assembly
ME990-10-PRK	Excelerator™ 1-1/4" Internal Valve Stem Packing Repair Kit
MEP147-01	Cable Connector Ring for 1-1/4" - 3" Internal Valves
ME990-10-129	Excelerator™ 1-1/4" Manual Operating Lever
ME990-160	Universal Internal Valve Fusible Link - 212° F.

EXCESS FLOW SPRINGS			
Part No. *	Description	Closing Flow	Color
ME990-10-106-35	Excelerator™ 1-1/4" Single Flange Internal Valve Stainless Steel Excess Flow Spring	35 GPM	Blue
ME990-10-106-55		55 GPM	Green
ME990-10-106-85		85 GPM	Orange

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC Excelerator 1-1/4" Threaded Tee Internal Valves

Continued next page



Intended for use on bobtail trucks and storage tanks with 1-1/4" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port . For liquid or vapor service applications.

- Durable 316 stainless steel body
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- UL LISTED for LPG & NH₃ service
- Available with 316 Stainless Steel Body
- Rulon™ bearing on stub shaft



ME992-10 SERIES

"X"	1-1/4" Valve Liquid Closing Flow Values
35	35 GPM LPG Closing Flow
55	55 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow
* For NH ₃ multiply GPM by .90	

Part No. *	Description
ME992-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - Only
New! ME992-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - Only
ME992A-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - with Pnuematic Actuator
New! ME992A-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - with Pnuematic Actuator
ME992AR-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - with Rotary Actuator
New! ME992AR-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - with Rotary Actuator
ME992M-10-"X"	Excelerator™ 1-1/4" MNPT x 1-1/4" FNPT Internal Valve - with Manual Latch
New! ME992M-10/12-"X"	Excelerator™ 1-1/4" MNPT x 1-1/2" FNPT Internal Valve - with Manual Latch
* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME992-10-85 (85 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME992K-10-35 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME992N-10-35 To order Viton® add "V" for Viton® after the prefix part number i.e. ME992V-10-35	

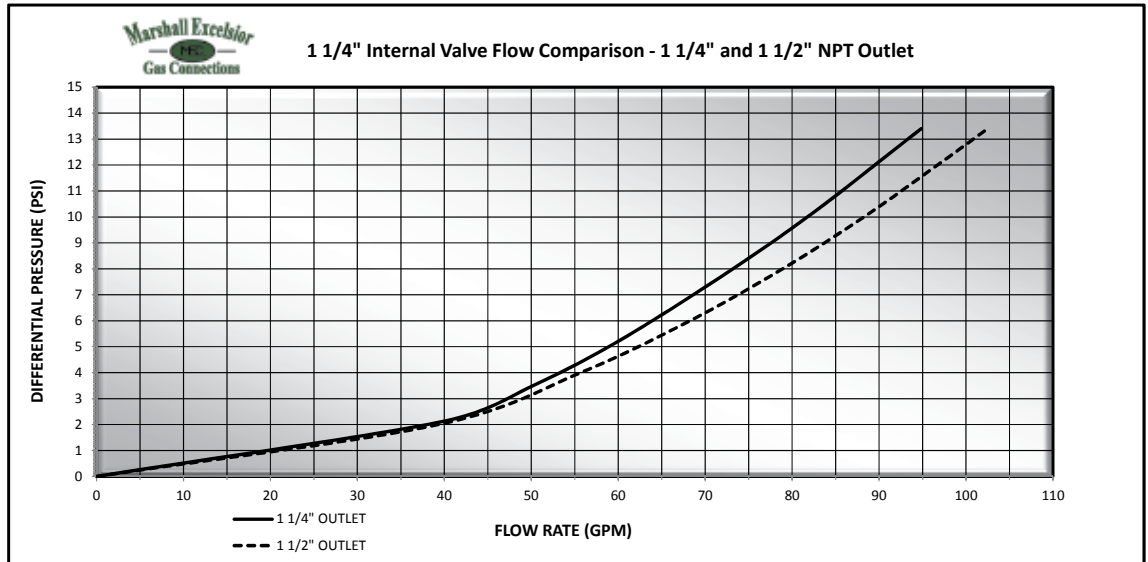
Viton® and Kalrez® are trademarks of DuPont Performance Elastomers.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEC Excelerator 1-1/4" Threaded Tee Internal Valves Service and Repair Parts (cont.)



ACCESSORIES	
Part No.	Description
ME990-10-902	Excelerator™ Manual Latch Assembly for 1-1/4" Threaded Internal Valves
MEP650	Open/Close Cable Control Release with 50' Cable
MEP651	Open/Close Cable Control Release - Only
ME205	Fastroke Actuator
ME225	PowerTorq Direct Drive Actuator

SERVICE KITS & REPAIR PARTS	
Part No.	Description
ME990-10-VRK	Excelerator™ 1-1/4" Internal Valve Complete Valve Repair Kit
ME990-10-SRK	Excelerator™ 1-1/4" Internal Valve Seal Repair Kit
ME990-10-106-"X"*	Excelerator™ 1-1/4" Internal Valve Excess Flow Spring
ME990-10-PGA	Excelerator™ 1-1/4" Internal Valve Packing Gland Assembly
ME990-10-PRK	Excelerator™ 1-1/4" Internal Valve Stem Packing Repair Kit
MEP147-01	Cable Connector Ring for 1-1/4" - 3" Internal Valves
ME990-10-129	Excelerator™ 1-1/4" Manual Operating Lever
ME990-160	Universal Internal Valve Fusible Link - 212° F.

EXCESS FLOW SPRINGS			
Part No. *	Description	Closing Flow	Color
ME990-10-106-35	Excelerator™ 1-1/4" Single Flange Internal Valve Stainless Steel Excess Flow Spring	35 GPM	Blue
ME990-10-106-55		55 GPM	Green
ME990-10-106-85		85 GPM	Orange

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC Excelerator 1-1/2" Threaded Tee Body Internal Valves

Continued next page



Intended for use on bobtail trucks, storage tanks and nurse wagons with 1-1/2" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port.

FOR LIQUID OR VAPOR SERVICE APPLICATIONS.

- Durable ductile iron body
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- UL LISTED for LPG & NH3 service
- Rulon™ bearing on stub shaft
- Supplied with hex socket 1-1/2" port plug for single discharge applications



**ME992-12
SERIES**



"X"	1-1/2" Valve Liquid Closing Flow Values
50	50 GPM LPG Closing Flow
65	65 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow
110	110 GPM LPG Closing Flow
120	120 GPM LPG Closing Flow

For NH3 multiply GPM by .90

MEC Excelerator™ 1-1/2" Threaded Tee Body Internal Valves	
ME992-12-"X"	Excelerator™ 1-1/2" MNPT x 1-1/2" FNPT Internal Valve - Only
ME992A-12-"X"	Excelerator™ 1-1/2" MNPT x 1-1/2" FNPT Internal Valve - with Pneumatic Actuator
ME992AR-12-"X"	Excelerator™ 1-1/2" MNPT x 1-1/2" FNPT Internal Valve - with Rotary Actuator
ME992M-12-"X"	Excelerator™ 1-1/2" MNPT x 1-1/2" FNPT Internal Valve - with Manual Latch

* Note: Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME992-12-85 (85 GPM)
 To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME992K-12-85
 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME992N-12-85
 To order Viton® add "V" for Viton® after the prefix part number i.e. ME992V-12-85

Viton® and Kalrez® are trademarks of DuPont Performance Elastomers.

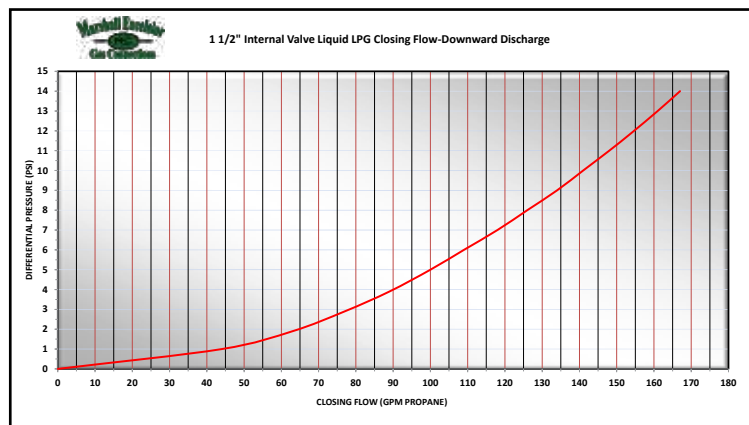
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEC Excelerator 1-1/2" Threaded Tee Body Internal Valves

Service and Repair Parts (cont.)



MEC Excelerator™ 1-1/2" Internal Valve - Accessories	
Part No.	Description
ME990-10-902	Excelerator™ Manual Latch Assembly
MEP650	Open/Close Cable Control Release with 50' Cable
MEP651	Open/Close Cable Control Release - Only
ME205	Fastroke Actuator
ME225	PowerTorq Direct Drive Actuator

MEC Excelerator™ 1-1/2" Internal Valve - Service Kits & Repair Parts	
Part No.	Description
ME990-12-VRK	Excelerator™ 1-1/2" Internal Valve Complete Repair Kit
ME990-12-SRK	Excelerator™ 1-1/2" Internal Valve Seal Repair Kit
ME990-10-PGA	Excelerator™ 1-1/4" - 1-1/2" Internal Valve Packing Gland Assembly
ME990-10-PRK	Excelerator™ 1-1/4" - 1-1/2" Internal Valve Stem Packing Repair Kit
MEP147-01	Cable Connector Ring for 1-1/4" - 3" Excelerator™ Internal Valves
ME990-10-129	Excelerator™ Manual Operating Lever
ME990-160	Excelerator™ Universal Internal Valve Fusible Link - 212° F.

MEC Excelerator™ 1-1/2" Internal Valve - Excess Flow Springs			
Part No.	Description	Closing Flow	Color
ME992-12-106-45	Excelerator™ 1-1/2" Threaded Tee Body Internal Valve Excess Flow Spring - Stainless Steel	50 GPM	Orange
ME992-12-106-60		65 GPM	Red
ME992-12-106-85		85 GPM	Yellow
ME992-12-106-110		110 GPM	Purple
ME992-12-106-125		125 GPM	Brown

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

2" and 3" Threaded Tee Body Internal Valves

Intended for use on transport trucks and large storage tanks with 2" or 3" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being seperated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port. For liquid or vapor service applications.



2" & 3" Threaded Tee Body Internal Valve Features

- Durable ductile body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- UL LISTED for LPG & NH₃ service
- Rulon_{TM} bearings on stem and stub shafts



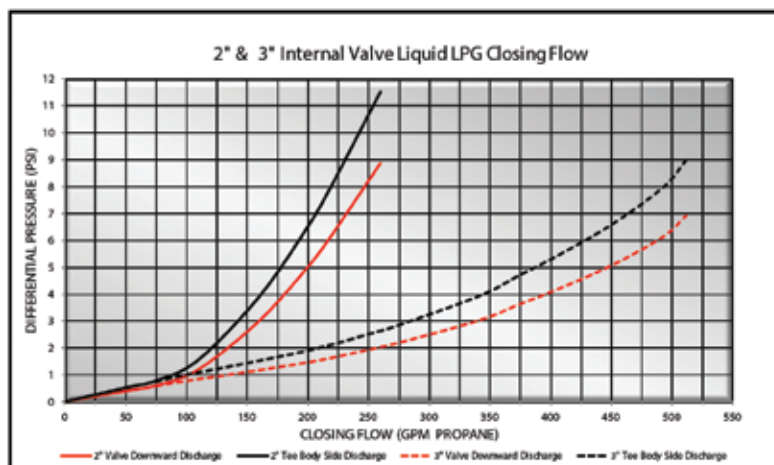
ME992M-16

2" NTP Tee Body Internal Valve
w/ Manual Latch



3" NTP Tee Body
Internal Valve
w/ Manual Latch

ME992M-24



"X"	2" Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

For NH₃ multiply GPM by .90
Side discharge increases differential to close by approx. 2 PSIG

MEC Excelerator_{TM} 2" & 3" Threaded Tee Body Internal Valves

Part No. *	Description
ME992-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Tee Body Internal Valve - Only
ME992A-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Tee Body Internal Valve - with Pnuematic Actuator
ME992AR-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Tee Body Internal Valve - with Rotary Actuator
ME992M-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Tee Body Internal Valve - with Manual Latch
ME992-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Tee Body Internal Valve - Only
ME992A-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Tee Body Internal Valve - with Pnuematic Actuator
ME992AR-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Tee Body Internal Valve - with Rotary Actuator
ME992M-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Tee Body Internal Valve - with Manual Latch

*Note: Indicate desired excess flow closing value when ordering - see chart for values - i.e. ME992-24-250 (250 GPM)
To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME992K-16-160
To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME992N-16-160
To order Viton® add "V" for Viton® after the prefix part number i.e. ME992V-16-160



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEC Excelerator 2" and 3" Threaded Internal Valves

Continued on next page

Intended for use on transport trucks and large storage tanks with 2" or 3" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. For liquid or vapor service applications

2" & 3" Threaded Internal Valve Features

- Durable ductile body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- UL LISTED for LPG & NH₃ service
- Rulon_{TM} bearings on stem and stub shafts

ME990
SERIES



ME990M-16



ME990M-24



Excelerator
Internal Valves_{TM}



MEC Excelerator_{TM} 2" & 3" Threaded Internal Valves

Part No. *	Description
ME990-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Internal Valve - Only
ME990A-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Internal Valve - with Pneumatic Actuator
ME990AR-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Internal Valve - with Rotary Actuator
ME990M-16-"X"	Excelerator _{TM} 2" MNPT x 2" FNPT Internal Valve - with Manual Latch
ME990-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Internal Valve - Only
ME990A-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Internal Valve - with Pneumatic Actuator
ME990AR-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Internal Valve - with Rotary Actuator
ME990M-24-"X"	Excelerator _{TM} 3" MNPT x 3" FNPT Internal Valve - with Manual Latch

* Note: Indicate desired excess flow closing value when ordering - see chart for values
i.e. ME990-24-250 (250 GPM)

To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME990K-16-160

To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME990N-16-160

To order Viton® add "V" for Viton® after the prefix part number i.e. ME990V-16-160

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC Excelerator 2" and 3" Accessories and Repair Kits

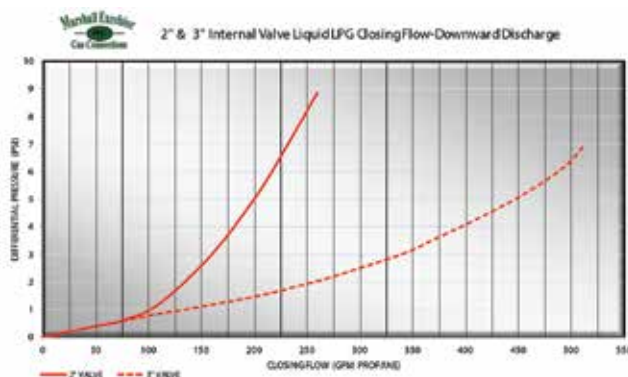


bergquistinc.com

Accessories	
Part No.	Description
MEP990-24	Excelerator Manual Latch Assembly for 2" and 3" Threaded Internal Valves
MEP650	Open/Close Cable Control Release with 50' Cable
MEP651	Open/Close Cable Control Release- Only
ME206	PowerStroke Actuator
ME226	PowerTorq Direct Drive Actuator
Service Kits and Repair Parts	
ME990-16-VRK	Excelerator 2" Internal Valve Complete Valve Repair Kit
ME990-16-SRK	Excelerator 2" Internal Valve Seal Repair Kit
ME990-16-106-"X"	Excelerator 2" Internal Valve Excess Flow Spring
ME990-24-VRK	Excelerator 3" Internal Valve Complete Valve Repair Kit
ME990-24-SRK	Excelerator 3" Internal Valve Seal Repair Kit
ME990-106-"X"	Excelerator 3" Internal Valve Excess Flow Spring
ME990-PGA	Excelerator 2" and 3" Internal Valve Packing Gland Assembly
ME990-PRK	Excelerator 2" and 3" Internal Valve Stem Packing Repair Kit
ME990-140	Excelerator 2" and 3" Manual Operating Lever-Standard
ME990-160	Universal Internal Valve Fusible Link-212° F.
MEP147-01	Cable Connector Ring for 1-1/4" - 3" Internal Valves

*Note: Indicate desired excess flow closing value when ordering - see chart for values.

Example: ME990-16-106-260 (260GPM)



"X"	2" Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
* For NH ₃ multiply GPM by .90	

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

 ENDURANCE



Cavagna Internal Valves

These valves are designed as primary shut-offs to control product discharge in propane gas service. They are predominantly used in the liquid and vapor openings of bobtail and other transport vehicles. The valves can also be used in stationary and storage tank applications. All valves meet the requirements of NFPA 58.

All Cavagna internal valves have a robust one piece body design and incorporate an excess flow function. Each valve is designed with a weak point that allows the pump or piping to "shear" in the event of an accident leaving the valve closing mechanism intact.

Cavagna threaded valves are compact and can be operated either manually or remotely via cable or pneumatic control. The valves contain spring loaded PTFE packing providing excellent leakage protection and the standard disc material is Nitrile.

Operation


Both flanged and threaded internal valves can be manually or remotely operated by cable or pneumatic control.

Connection Inlet x Outlet	Part Number		Closing Flow GPM Propane		Vapor Capacity SCFH Propane	
	Straight Body	Tee Body	Half Coupling	Full Coupling	25 psig Inlet	50 psig inlet
1 1/4" FNPT x 1 1/4" MNPT	6902900101	---	30	---	5,800	9,100
	6902900102	---	50	35	7,350	12,900
	6902900103	---	80	65	10,950	18,800
2" FNPT x 2" MNPT	6902900104	6902900130	100	60	21,550	3,800
	6902900105	6902900131	150	90	33,600	57,200
	6902900106	6902900132	250	130	---	---
3" FNPT x 3" MNPT	6902900107	6902900112	150	100	28,600	48,700
	6902900108	6902900113	200	125	43,500	73,900
	6902900109	6902900114	250	165	51,500	87,600
	6902900110	6902900115	400	235	80,100	139,000
	6902900111	6902900016	500	325	---	---

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC Excelerator 2" and 3" Flanged Tee Body Internal Valves



- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
-  LISTED for LPG & NH₃ service
- Rulon™ bearings on stem and stub shafts

Excelerator
Internal Valves™



ME992S-2F-16



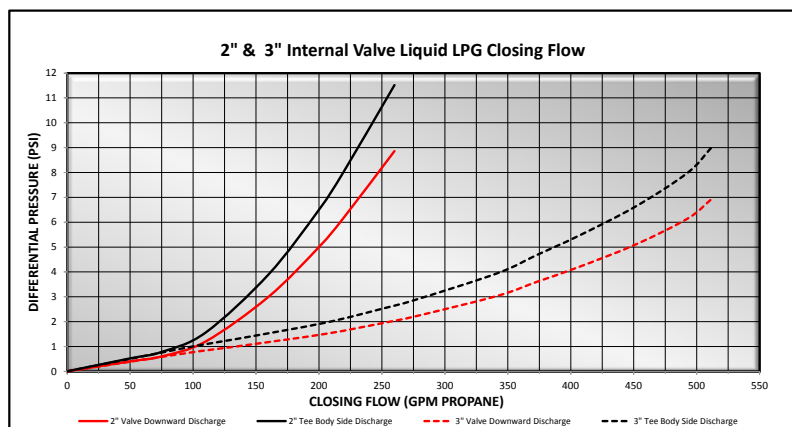
ME992S-3F-24

Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 2" & 3" flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator or open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The tee body features an additional FNPT side discharge port for liquid service applications.

"X"	2" Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

* For NH₃ multiply GPM by .90



MEC Excelerator™ 2" & 3" Flanged Tee Body Internal Valves	
ME992S-2F-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x 2" FNPT Tee Body Internal Valve - Only
ME992SA-2F-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x 2" FNPT Tee Body Internal Valve - with Pneumatic Actuator
ME992SAR-2F-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x 2" FNPT Tee Body Internal Valve - with Rotary Actuator
ME992S-3F-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x 3" FNPT Tee Body Internal Valve - Only
ME992SA-3F-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x 3" FNPT Tee Body Internal Valve - with Pneumatic Actuator
ME992SAR-3F-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x 3" FNPT Tee Body Internal Valve - with Rotary Actuator
<p>* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME992S-3F-24-250 (250 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME992SK-3F-24-250 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME992SN-3F-24-250 To order Viton® add "V" for Viton® after the prefix part number i.e. ME992SV-3F-24-250</p>	


Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

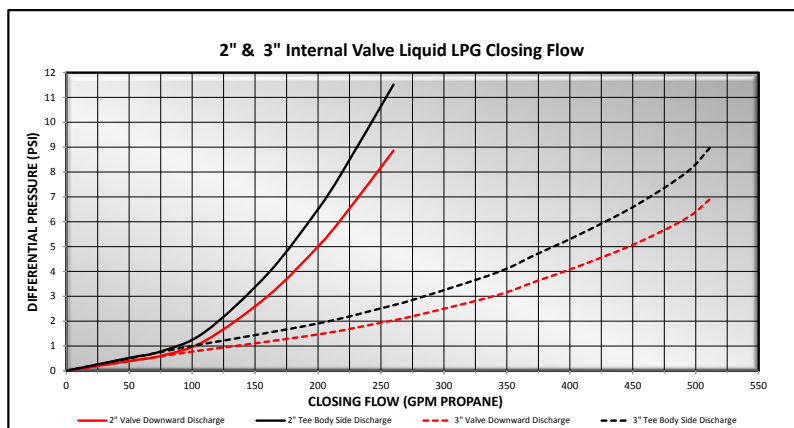
MEC Excelerator 2" and 3" - 300LB 3 Way Flanged Internal Valves

Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 2" & 3" flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator or open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. The flanged tee body features an additional 300 lb. flanged side discharge port for liquid service applications.

- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
-  LISTED for LPG & NH₃ service
- Rulon™ bearings on stem and stub shafts



ME993S-16 Series



"X"	2" Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow

* For NH₃ multiply GPM by .90

MEC Excelerator™ 2" & 3"-300 lb. 3 Way Flanged Tee Body Internal Valves	
Part No. *	Description
ME993S-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x (2) 2"-300 lb. Tee Body Internal Valve - Only
ME993SA-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x (2) 2"-300 lb. Tee Body Internal Valve - with Pneumatic Actuator
ME993SAR-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x (2) 2"-300 lb. Tee Body Internal Valve - with Rotary Actuator
ME993S-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x (2) 3"-300 lb. Tee Body Internal Valve - Only
ME993SA-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x (2) 3"-300 lb. Tee Body Internal Valve - with Pneumatic Actuator
ME993SAR-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x (2) 3"-300 lb. Tee Body Internal Valve - with Rotary Actuator
<p>* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME993S-24-250 (250 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME993SK-24-250 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME993SN-24-250 To order Viton® add "V" for Viton® after the prefix part number i.e. ME993SV-24-250</p>	

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Next Generation 3" Double Flanged Off-Set Internal Valves

Continued next page



Intended for use on bobtail delivery trucks with 3" flanged connections in directional or bi-directional flow applications. The 3" offset outlet flange prevents pump installation interference with truck frame rails, cross members, PTO covers, drive shafts, and other common obstacles when remounting bobtail vessels onto new chassis. In order to reduce the amount of offset from the 2" maximum to 1-1/4", simply rotate the inlet flange connection by 1 bolt hole either direction. To eliminate the offset entirely, simply rotate 1 more bolt hole. The Excelsior_{TM} offset is equipped with three separate packing gland locations to prevent interference while mounting the valve actuator no matter how you choose to mount the valve. Provides both manual shut-down and excess flow closing in the event the of the valve being separated from the tank. Can be equipped with pneumatic or rotary actuator open/closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.

- Body outlet flange offset 2" from inlet flange
- Rotate valve body in either direction 1 bolt hole to reduce offset to 1-1/4"
- Standard with 3 gland ports for stem relocation (2 plugged)
- Each gland port can accept pneumatic or rotary type actuators
- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
- UL LISTED for LPG & NH₃ service
- Rulon_{TM} bearings on stem and stub shafts



Alternate Gland Ports (Plugged)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



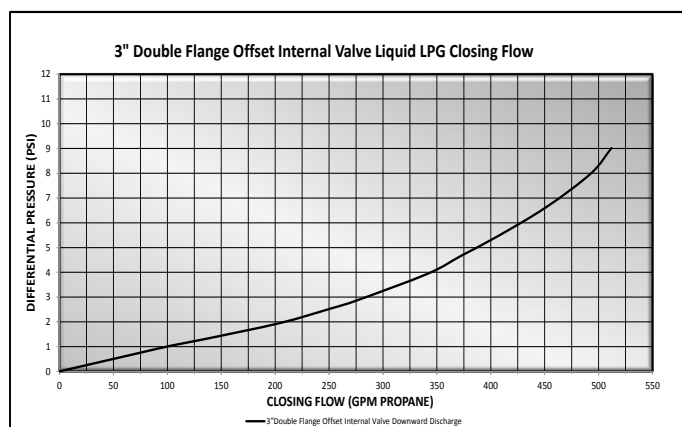
bergquistinc.com

Next Generation 3" Double Flanged Off-Set Internal Valves (cont.)

MEC Excelerator™ 3" Double Flanged Offset Internal Valves	
ME990S-3DFO-"X"	Excelerator™ 3" Double Flange Offset Bobtail Internal Valve - Only
ME990SA-3DFO-"X"	Excelerator™ 3" Double Flange Offset Bobtail Internal Valve - with Pneumatic Actuator
ME990SAR-3DFO-"X"	Excelerator™ 3" Double Flange Offset Bobtail Internal Valve - with Rotary Actuator
<p>*Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME990S-3DFO-250 (250 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME990SK-3DFO-300 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME990SN-3DFO-300 To order Viton® add "V" for Viton® after the prefix part number i.e. ME990SV-3DFO-300</p>	



"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
For NH ₃ Multiply GPM by .90	



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

MEC Excelerator 3" Flanged Internal Valves



bergquistinc.com

ME990S-3DF SERIES



Intended for use on bobtail delivery trucks, transport trucks and large storage tanks with 3" flanged connections in directional or bi-directional flow applications. Provides both manual shut-down and excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the pump or piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss.

3" Flanged Internal Valve Features

- Durable steel body with cadmium surface plating
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained Nitrile seat disc
- Largest variety of excess flow closing valves
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes Nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
- UL LISTED for LPG & NH₃ service
- Rulon™ bearings on stem and stub shafts

ME990S-3F-24 SERIES



Part No.*	Description
ME990-3F-"X"	Excelerator™ 3" Single Flange Internal Valve - Only
ME990A-3F-"X"	Excelerator™ 3" Single Flange Internal Valve - with Pneumatic Actuator
ME990S-3DF-"X"	Excelerator™ 3" Double Flange Bobtail Internal Valve - Only
ME990SA-3DF-"X"	Excelerator™ 3" Double Flange Bobtail Internal Valve - with Pneumatic Actuator
ME990SAR-3DF-"X"	Excelerator™ 3" Double Flange Bobtail Internal Valve - with Rotary Actuator
ME990S-3DFM-"X"	Excelerator™ 3"-300 lb. Modified Double Flange Internal Valve - Only
ME990SA-3DFM-"X"	Excelerator™ 3"-300 lb. Modified Double Flange Internal Valve - with Pneumatic Actuator
ME990SAR-3DFM-"X"	Excelerator™ 3"-300 lb. Modified Double Flange Internal Valve - with Rotary Actuator
ME990S-3F-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x 3" FNPT Internal Valve - Only
ME990SA-3F-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x 3" FNPT Internal Valve - with Pneumatic Actuator
ME990SAR-3F-24-"X"	Excelerator™ 3"-300 lb. Modified Single Flange x 3" FNPT Internal Valve - with Rotary Actuator

* Note: Indicate desired excess flow closing valve when ordering - see chart for values (e.g., ME990S-3DF-250 (250 GPM))

To order Kalrez® add "K" after the prefix part number (e.g., ME990SK-3DF-300)

To order Neoprene add "N" after the prefix part number (e.g., ME990SN-3DF-300)

To order Viton® add "V" after the prefix part number (e.g., ME990SV-3DF-300)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEC Excelerator 3" Flanged Internal Valves

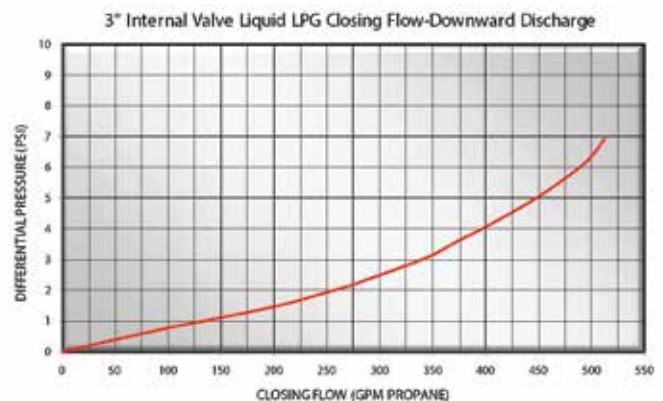
Service and Repair Parts

MEC Excelerator 3" Internal Valve Model 3F Accessories	
Part No.	Description
ME206	PowerStroke Actuator
ME228	PowerTorq Direct Drive Actuator
MEC Excelerator 3" Internal Valve Model 3DF/3DFM Accessories	
ME207	PowerStroke Actuator
ME227	PowerTorq Direct Drive Actuator
Service Kits and Repair Parts	
ME990-24-VRK	Excelerator 3", 3"DF,3"DFM Internal Valve - Complete Rebuild Kit
ME990-24-SRK	Excelerator 3", 3"DF,3"DFM Internal Valve - Seal Repair Kit
ME990-PRK	Excelerator 2" and 3" Internal Valve - Stem Packing Repair Kit
ME990-PGA	Excelerator 2" and 3" Internal Valve - Packing Gland Assembly
ME990-106-"X"	Excelerator 3" Internal Valve Excess Flow Spring
MEP147-01	Cable Connector Ring for 1-1/4" - 3" Internal Valves
ME990-140	Excelerator 2" and 3" Manual Operating Lever-Standard
ME990-3F-24-140	Excelerator Modified Single and Double Flange Manual Operating Lever - Short
ME990-160	Universal Internal Valve Fusible Link-212° F.
ME990-3DF-121	Excelerator 3" Double Flange Self-Guiding Poppet Retaining Nut
ME990-3DF-122	Excelerator 3" Double Flange Retaining Nut Roll Pin
ME990-3DF-138	Excelerator 3" Double Flange Screen Mounting Post
ME990-3DF-144	Excelerator 3" Double Flange Filter Screen Perforated Steel
ME990-3DF-145	Excelerator 3" Double Flange Filter Cap Perforated Steel
ME990-3DF-146	Excelerator 3" Double Flange Screen Mounting Post - Locknut
ME990-3DF-148	Excelerator 3" Double Flange Stem Guide Bracket
ME990-244	Excelerator 3" Double Flange Stem Guide Bracket Screw #10-32
ME904SK-01	3" Modified Single and Double Flange Internal Valve Tank Side Mount Stud 3" OAL - B7
ME990-151	3" Bobtail Double Flange Internal Valve Tank Side Mount Stud 3-1/2" OAL - B7
ME904SK-02	3" Internal Valve Mount Stud Standard Hex Nut 3/4 - 10 B8
ME990-3DF-153	Excelerator 3" Double Flange Internal Valve Inlet Flange Gasket
ME904S-3F-027	Excelerator 3" Double Flange Outlet/3" Modified Inlet Flange Gasket

*Note: Indicate desired excess flow closing value when ordering - see chart for values.

Example: ME990-107-250 (250GPM)

"X"	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
* For NH ₃ Multiply GPM by .90	



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



MEC Excelerator 4" Flanged Internal Valves

Continued next page



bergquistinc.com

ME990-4F

Intended for use on transport trucks and large storage tanks with 4" flanged connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator open/ closing devices.



4" Flanged Internal Valve Features

- All stainless construction
- Precision machined stem & stem guide
- Fully retained disc
- Largest variety of excess flow closing values
- Available with standard or #5 mesh filter screen
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Removable data plate
- Threaded packing gland with seal ejector spring
- Standard construction utilizes Nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- UL LISTED for LPG & NH₃ service
- Rulon_{TM} bearings on stem and stub shafts



MEC Excelerator_{TM} 4" Internal Valves

Part No. *	Description
ME990-4F-"X"	Excelerator _{TM} 4" Single Flange Internal Valve - Only
ME990A-4F-"X"	Excelerator _{TM} 4" Single Flange Internal Valve - with Pneumatic Actuator
ME990AR-4F-"X"	Excelerator _{TM} 4" Single Flange Internal Valve - with Rotary Actuator
ME990M-4F-"X"	Excelerator _{TM} 4" Single Flange Internal Valve - with Manual Latch

* Note: Indicate desired excess flow closing value when ordering - see chart for values

i.e. ME990-4F-650 (650 GPM)

For #5 Mesh screen add /5 e.i. ME990-4F-650/5

To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME990AK-4F-500

To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME990AN-4F-500

To order Viton® add "V" for Viton® after the prefix part number i.e. ME990AV-4F-500

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEC Excelerator 4" Flanged Internal Valves Service and Repair Parts (cont.)

Excelerator Internal Valves 4" Flanged	ME990-4F-VRK	Excelerator 4" Internal Valve Rebuild Kit
	ME990-4F-SRK	Excelerator 4" Internal Valve Seal Repair Kit
	ME990-4F-PRK	Excelerator 4" Internal Valve Stem Packing Repair Kit
	ME990-4F-PGA	Excelerator 4" Internal Valve-Stem Packing Gland Assembly
	ME990-4F-144	Excelerator 4" Internal Valve Filter Screen Perforated - Stainless Steel
	ME990-4F-145	Excelerator 4" Internal Valve Filter Cap Perforated - Stainless Steel
	ME990-4F-146	Excelerator 4" Internal Valve Filter Screen Retain Bolt - 1/4-28
	ME990-4F-153	Excelerator 4" Internal Valve Inlet Flange Gasket
	ME990-4F-172	Excelerator 4" Internal Valve Outlet Flange Gasket
	ME990-4F-162	Excelerator 4" Internal Valve Filter Screen/Cap #5 MESH
	ME990-4F-151	4" Internal Valve Mounting Stud 6-3/4" OAL B7 Xylan Coated
	ME990-4F-106-"X" *	Excelerator 4" Single Flange Internal Valve-Excess Flow Spring

MEC Excelerator 4" Internal Valve Accessories	
Part No.	Description
ME208SF	PowerStroke Actuator
ME228	PowerTorq Direct Drive Actuator

*Note: Indicate desired excess flow closing value when ordering-see chart for values
Example: ME990-4F-650 (650 GPM)

"X"	4" Valve Liquid Closing Flow Values
375	375 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
650	650 GPM LPG Closing Flow
850	850 GPM LPG Closing Flow
1250	1,250 GPM LPG Closing Flow
1500	1,500 GPM LPG Closing Flow
* For NH3 Multiply GPM by .90	



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Cavagna 3 and 4 Endurance Valves Single and Double Flange



Cavagna flanged valves are equipped with a built-in excess flow to prevent the uncontrolled release of product. They are perfect for mounting a pump or piping direct to the internal valve. Mounting bolts are weakened allowing the pump or piping to “shear” in the case of an accident leaving the valve intact. Cavagna flanged internal valves have a filter to trap dirt and particles before entering the pump. This filter can be removed when the valve is installed on the filling pipe line.

The valves contain spring loaded PTFE packing providing excellent leakage protection and the standard disc material is Nitrile.

Cavagna Internal Valves

Single Flange	Double Flange	Inlet Connection	Outlet Connection	Excess Flow Rate	Vapor Capacity SCFH Propane	
					25 psig Inlet	100 psig Inlet
6902900117	6902900122	3" 300 lb ANSI RF Modified (4 7/8" diameter bore)	3" 300 lb ANSI RF	150 GPM	25,100	42,700
6902900118	6902900123			200 GPM	36,900	62,800
6902900119	6902900124			250 GPM	42,200	71,800
6902900120	6902900125			400 GPM	59,400	100,900
6902900121	6902900126			500 GPM	---	---

Cavagna 4" Endurance Valves - Single Flange

Part Number	Inlet Connection	Outlet Connection	Excess Flow Rate
6902900141	4" 300 lb ANSI RF Modified (4 7/8" diameter bore)	4" 300 lb ANSI RF	340 GPM
6902900142			440 GPM
6902900143			600 GPM
6902900144			800 GPM
6902900145			1000 GPM

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



Actuators		
Part Number	Name	Fits
30009000000	O-205	CAVAGNA 1" 1/4 & 1" 1/2 Threaded Internal Valve
30009000001	O-206	CAVAGNA 2" & 3" Threaded Internal Valve
30009000002	O-207 SF	CAVAGNA 3" Single Flange Internal Valve
30009000003	O-207	CAVAGNA 3" Double Flanged Internal Valve
30009000004	O-208 SF	CAVAGNA 4" Single Flange Internal Valve

Features:

- The actuator is preassembled and ready to install.
- Compared to current devices which require adjustments the installment is quick and easy (3 screws and 1 split pin).
- The actuator can be fitted to the valve in four separate positions allowing optimization of space on the vehicle.
- Direct drive design does not apply side load to internal valve stem packing for maximum valve life.
- The actuator uses an internal cam mechanism, which guarantees higher performance optimizing the opening torque.
- Torque moment: The return torque moment relies only on the spring and is independent from the supply pressure.
- Immediate and automatic closing in absence of air (no need for additional rapid discharge accessories).
- OPEN/CLOSE indicator.
- Compact design and lightweight.
- Aluminum body, components in stainless steel and aluminum.
- Valve anchoring bracket made in stainless steel.
- The actuator is self-lubricating with PTFE carbon-graphite seals.
- The actuator guarantees complete opening of the valve and is equipped with limit switch.
- Operating media: compressed filtered air, not necessarily lubricated.
- 500,000 opening cycles guaranteed.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Internal Valve Actuators



PowerTorq Rotary Actuators

These direct drive actuators are designed to maximize the life of the internal valve by eliminating side pressure on the valve's packing stem. These actuators are intended to be used at remote locations or operated directly off the air brake system in bobtail or transport applications.

The low temperature factory installed seals allow these actuators to be used with air, nitrogen, carbon dioxide or LP-Gas vapor. In case of a fire the factory provided thermal plug melts at 212° Fahrenheit releasing pressure allowing the internal valve to close. The factory set rotation of these actuators require no modification, can be oriented in any direction and all hardware needed for installation is provided.

ME225



ME707 & Internal valves not included

Actuator Operating Pressure Limits:

Minimum = 25 PSIG
Maximum = 125 PSIG
Recommended = 40-60 PSIG

PowerTorq Actuators

PowerTorq Rotary Actuator Features

- Stainless steel all weather mounting hardware
- Field repairable under full tank pressure
- Anodized aluminum actuator body with easy to see open/close indicator
- No pinch points for operator safety
- Includes mounting bracket for ME707 Quick Release Valve
- Note: ME707 is not required for operation

ME227



Part No.	Actuator Type	Fits MEC Excelerator Valves	Fits Cavagna Endurance 6902900 Valves	Internal Valve
ME225	Direct Drive	ME990-10	101 Thru 103	1-1/4" Threaded
ME226	Direct Drive	ME990-16, ME990-24, ME990S-3F-24	104 Thru 116 130 thru 132	2" & 3" Threaded
ME227	Direct Drive	ME990S-3DF & ME990S-3DFM	122 Thru 126	3" Double Flange
ME228	Direct Drive	ME990-4F	141 Thru 145	4" Single Flange

Cavagna is the trademark of Cavagna Group

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Internal Valve Actuators

FaStroke Actuators

ME710



ME205R



ME205



Actuator Operating Pressure Limits:

Minimum = 20 PSIG

Maximum = 125 PSIG

Recommended = 20-25 PSIG

Part No.	Actuator Type	Fits MEC Excelsator Valves	Fits Cavagna 6902900 Valves	Fits	Internal Valve
ME205	Airstroke™ by Firestone	ME990-10	101 Thru 103	RegO A3209R	1-1/4" Threaded
ME205R	Airstroke™ by Firestone	—			1-1/4" Threaded
ME206	#9 Chamber	ME990-16, ME990-24, ME990S-3F-24, ME990S-2F-16	104 Thru 116 130 Thru 132		2" & 3" Threaded
ME207	#9 Chamber	ME990S-3DF & ME990S-3DFM	122 Thru 126		3" Double Flange
ME207SF	#9 Chamber	—	117 Thru 121		3" Single Flange
ME208SF	#24 Chamber	ME990-4F	141 Thru 145		4" Single Flange
ME710	Airstroke™ by Firestone	—	RegO® Flowmatic® Three-Way Valve		

*Internal Valves not included

FaStroke & PowerStroke Actuator Features

- Stainless steel all weather bracket
- Field repairable without complete disconnect from internal valve
- Repairable with common automotive brake chamber
- High gloss automotive grade black epoxy coating



ME552

Part No.	Description	Fits
ME205	FASTroke Air Actuator	1 1/4" Internal Valve
ME205R	FASTroke Air Actuator for REGO®	
ME206	Type #9 Power Stroke Air Actuator	2" & 3" Internal Valve
ME207	Type #9 Power Stroke Actuator	Double Flanged Internal Valve
ME207SF	Type #9 Power Stroke Air Actuator	Single Flange Internal Valve
ME208SF	Type #24 Power Stroke Air Actuator	Single Flange Internal Valve
ME710	FloStroke Actuator	REGO® Flomatic Valve
ME551	Safety Stroke Air Actuator	MEC ME980 Series Emergency Shutoff Valve
ME552	Rotary Actuator Kit	MEC ME980 Series Emergency Shutoff Valves

Actuator Accessories

ME707	Quickrelease valve - 3/8" FNPT inlet and outlets
ME708	Air Pressure Regulator 0-150 PSI - 1/8" FNPT Gauge Ports - 1/4" FNPT Outlet with Mounting Bracket
ME709	1/4" FNPT x 1/4" MNPT LP Gas and Air Filter - Aluminum

PowerStroke Actuators

ME206



ME208SF



ME207



ME707



ME551



ME207



ESV Tubing and Accessories



bergquistinc.com



3330



#P148



P149



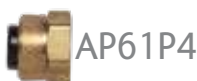
V129



44P

44PX500

44PX1000



AP61P4



AP64P4



AP62P4



AP68P4X4



AP69P4X4

Part No	Description
44P	1/4" Plastic Air Tubing, 100' length only
44PX500	1/4" Plastic Air Tubing, 500' length only
44PX1000	1/4" Plastic Air Tubing, 1000' length only
AP62P4	1/4" Plastic Air Union
AP64P4	1/4" Plastic Air Tee
AP68P4x2	1/4" Plastic x 1/8" MNPT, male connector
AP68P4x4	1/4" Plastic x 1/4" MNPT, male connector
AP69P4x2	1/4" Plastic x 1/8" MNPT, elbow connector
AP69P4x4	1/4" Plastic x 1/4" MNPT, elbow connector
AP61P4	1/4" Ferrule and nut
3330	1/4" ESV Palm valve
#P148	"Pull to Close", 10"x 12", rigid plastic
P149	"Push to Close", 10"x 12", rigid plastic
V129	"Pull to Close", 5"x 6", soft vinyl sticker

Actuator Accessories



ME707

Part No.	Inlet	Outlet
ME707	3/8" FNPT	3/8" FNPT (2 Ports)
ME708	1/4" FNPT	1/4" FNPT
ME709	1/4" FNPT	1/4" MNPT



ME709

ME707—The quick release valve is used in conjunction with Marshall Excelsior's air actuators to decrease the response time when closing actuators. They are particularly effective when long distances (75 feet or more) exist between the actuator and the actuator control valve.

ME708—The 0-150 psig air pressure regulator prolongs the life of the air actuator and air system by allowing the air pressure to be set and regulated at the minimum required operating pressure for each individual system.

ME709—The gas/air filter is used to filter foreign materials and/or particles from LP-Gas systems such as motor fuel/carburetion systems. Also designed to be used to filter air supply lines for internal and emergency shutoff valve actuator systems.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Emergency Shutoff Valves (cont. next page)



ME980C-6



ME980-905-25



Emergency Shutoff Valves (ESV's) are designed to provide rapid and positive shutdown of gas lines should a down stream rupture or piping break occur. Due to the presence of a built-in fuseable element at the valve operating hub the ESV will automatically close when exposed to heat between 212* F. - 250* F. These valves are ideally suited for installation at direct fired vaporizer inlets for automatic emergency shutdown as a result of fire or at dispensing pump inlets to provide immediate and positive remote shutdown.

Features:

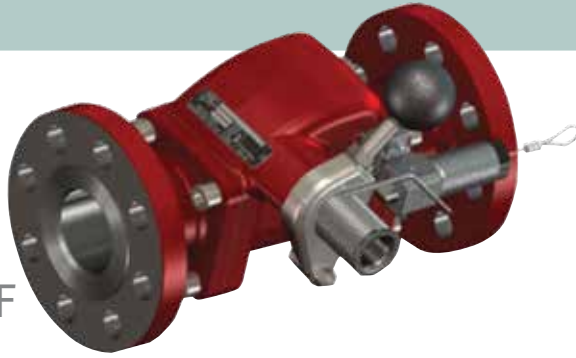
- Powder coated ductile iron body with cast hexagonal ends for maximum durability and ease of installation.
- Integral swing away check valve with soft seat to promote maximum product flow and minimize product loss in the event of a line failure.
- All stainless steel internal component construction provides maximum corrosion resistance
- Provides clear visual indication if valve is open / closed
- UL Listed for use with LP Gas and Anhydrous Ammonia - 400 PSI WOG
- Integral fusable element for automatic closure when exposed to fire
- Durable Teflon packing gland and resilient seals provide long lasting service life
- Available with pneumatic or cable style latch mechanism.

Emergency Shut Off Valves (ESV's)		
Part No.	Description	Latch Type
ME980-6	3/4" FNPT Emergency Shutoff Valve (ESV)	Pneumatic
ME980-8	1" FNPT Emergency Shutoff Valve (ESV)	Pneumatic
ME980C-6	3/4" FNPT Emergency Shutoff Valve (ESV)	Cable
ME980C-8	1" FNPT Emergency Shutoff Valve (ESV)	Cable

Accessories / Repair Kits	
Part No.	Description
ME980-905	Universal Thermally Activated Remote Cable Release Mechanism
ME980-905-25	Universal Thermally Activated Remote Cable Release Mechanism w/ 25' Cable
ME980-905-50	Universal Thermally Activated Remote Cable Release Mechanism w/ 50' Cable
ME980-906-25	Universal Remote Release Cable - 25'
ME980-906-50	Universal Remote Release Cable - 50'
ME980-907	Remote Thermally Activated Elbow 1/4" cc Inlet - For Pneumatic Latch Systems
ME980-6-901	3/4"- 1" ESV / Sight Indicating Back Check Valve Replacement Clapper Assembly
ME980-6-902	3/4"- 1" ESV Replacement Pneumatic Latch Assembly
ME980-6-903	3/4"- 1" ESV Replacement Cable Latch Assembly
ME980-6K	3/4"- 1" ESV Complete Valve Repair Kit
ME980-6SRK	3/4"- 1" ESV Seal Repair Kit

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Emergency Shutoff Valves (cont.)



ME980-16-2F



ME980-10



ME980-24



Emergency Shut Off Valves (ESV's)		
Part	Description	Latch Type
ME980-1 0	1-1/4" FNPT Emergency Shutoff Valve (ESV)	Pneumatic
ME980C-10	1-1/4" FNPT Emergency Shutoff Valve (ESV)	Cable
ME980-16	2" FNPT Emergency Shutoff Valve (ESV)	Pneumatic
ME980C-16	2" FNP T Shutoff Valve (ESV)	Cable
ME980-24	3" FNP T Shutoff Valve (ESV)	Pneumatic
ME980C-24	3" FNPT Emergency Shutoff Valve (ESV)	Cable
ME980-16-2F	2" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Pneumatic
ME980C-16-2F	2" - 300 lb. Flange Emergency Shutoff (ESV)	Cable
ME980-24-3F	3" - 300 lb. Flange Emergency Shutoff Vavve (ESV)	Pneumatic
ME980C-24-3F	3" - 300 lb. Flange Emergency Shutoff (ESV)	Cable
ME980-24-4F	4" - 300 lb. Flange Emergency Shutoff Valve (ESV)	Pneumatic
ME980C-24-4F	4" - 300 lb. Flange Emergency Shutoff Vavve (ESV)	Cable

Accessories / Repair Kits	
Part No.	Description
ME980-905	Universal Thermally Activated Remote Cable Release Mechanism
ME980-905-25	Universal Thermally Activated Remote Cable Release Mechanism w/ 25' Cable
ME980-905-50	Universal Thermally Activated Remote Cable Release Mechanism w/ 50' Cable
ME980-906-25	Remote Release Cable - 25'
ME980-906-50	Universal Remote Cable - 50'
ME980-907	Remote Thermally Activated Elbow 1/4" cc Inlet - For Pneumatic Latch Systems
ME551	1-1/4" - 3" ESV Pneumatic Actuator
ME552	1-1/4" - 3" ESV Rotary Actuator
ME980-10-901	1-1/4" ESV / Sight Flow Back Check Clapper Assembly
ME980-16-901	2" ESV / Sight Flow Back Check Clapper Assembly
ME980-24-901	3" ESV / Sight Flow Back Check Clapper Assembly
ME 980-10K	1-1/4" ESV Complete Valve Repair Kit
ME980-16K	2" ESV Complete Valve Repair Kit
ME980-24K	3' ESV Complete Vavve Repair Kit
ME980-10SRK	1-1/4" ESV Seal Repair
ME980-16SRK	2" ESV Seal Repair Kit
ME980-24SRK	3' ESV Seal Repair Kit



bergquistinc.com

Liquid Flow Indicators Ball Cone Check Valves

1532R-0071



Flow Indicators

Flow Indicators			
Part Number	Pipe Size	Back Check	Manufacturer
1532R-0071	3/4" FNPT	No	OPW
ME875S-16	2" FNPT	YES	MEC
ME875S-24	3" FNPT	YES	MEC



ME875S-16

Ball Cone Check Valves

Materials of Construction

Body - cast bronze, LP only

Tail Piece - brass rod

Ball Check - glass filled TFE Teflon

Guide - brass rod

Spring - 300 Series stainless steel

Part No.	Size
61-102	3/8" FNPT
61-103	1/2" FNPT
61-104	3/4" FNPT
61-105	1" FNPT
61-106	1 1/4" FNPT
61-107	1 1/2" FNPT
61-108	2" FNPT



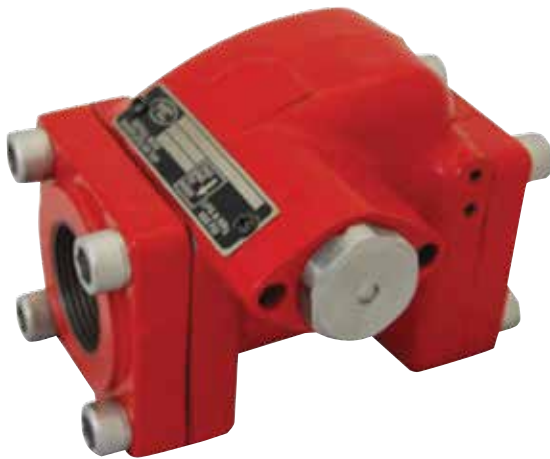
61-105

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Flow Indicating Swing Check Valve (cont. next page)



ME981-10



ME982-10

Promotes maximum pump efficiency by allowing system operators a visual inspection point for monitoring liquid flow conditions as well as providing a soft seat back check valve to prevent reverse product flow. Installation of a flow indicating swing check valve upstream of the pump, allows the operator to observe product flow and make pump adjustments for maximum flow without cavitation. Suitable for stationary and mobile applications.

- Features:
- Powder coated ductile iron body for maximum durability
- Removable flanged ends for ease of field service
- Integral swing away check valve with soft seat to promote maximum product flow and prevent reverse product flow
- All stainless steel internal component construction provides maximum corrosion resistance
- Magnetically coupled flow indicator for maximum protection against leaks and minimal resistance to product flow
- Clear/Easy to read flow indicator with "Glow" arrow allows the operator to easily see if the valve is open or closed
- Indicator dial removable under full system pressure
- UL Listed for use with LP Gas and Anhydrous Ammonia - 400 PSI WOG



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Flow Indicating Swing Check Valve (cont.)



Flow Indicating Valves				
Part No.	Description	Material	Flange Material	OAL
ME981-10	1-1/4" FNPT Flow Indicating Check Valve	Ductile Iron	Ductile Iron	5-3/8"
ME981-16	2" FNPT Flow Indicating Check Valve	Ductile Iron	Cast Steel	6-7/8"
ME981-24	3" FNPT Flow Indicating Check Valve	Ductile Iron	Ductile Iron	9-5/8"
ME982-10	1-1/4" FNPT Non-Indicating Check Valve	Ductile Iron	Ductile Iron	5-3/8"
ME982-16	2" FNPT Non-Indicating Check Valve	Ductile Iron	Cast Steel	6-7/8"
ME982-24	3" FNPT Non-Indicating Check Valve	Ductile Iron	Ductile Iron	9-5/8"
ME981-16-2F	2" - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	11-7/6*
ME981-24-3F	3" - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/8"
ME981-24-4F	4" - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/4*
ME982-16-2F	2" - 300 lb. Flange Flow Non-Indicating Check Valve	Ductile Iron	Ductile Iron	11-7/8"
ME982-24-3F	3" - 300 lb. Row Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/8"
ME982-24-4F	4" - 300 lb. Flange Flow Indicating Check Valve	Ductile Iron	Ductile Iron	14-1/4"

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excess Flow Valves



bergquistinc.com

Marshall Excess Flow Valves

Part Number	Inlet Connection	Outlet Connection	Closing Flow GPM (1)	Material
ME880-6/14	3/4" MNPT	3/4" FNPT	14	Brass
ME880-6/17			17	
ME880-6/22			22	
ME880-6/28			28	
ME880-6/4.6			4.6	
ME880-10/32	1 1/4" FNPT	1 1/4" MNPT	32	
ME880-10/42			42	
ME880-16/105	2" FNPT	2" MNPT	105	
ME880-16/114			114	
ME880-16/80			80	
ME880S-6/14	3/4" MNPT	3/4" FNPT	14	Steel
ME880S-6/17			17	
ME880S-6/22			22	
ME880S-6/28			28	
ME880S-6/4.6			4.6	
ME880S-10/32	1 1/4" FNPT	1 1/4" MNPT	32	
ME880S-10/42			42	
ME880S-16/105	2" FNPT	2" MNPT	105	
ME880S-16/114			114	
ME880S-16/80			80	
ME880S-24/265	3" FNPT	3" MNPT	265	
ME880S-24/350			350	
ME880SS-6/14	3/4" MNPT	3/4" FNPT	14	Stainless
ME880SS-6/17			17	
ME880SS-6/22			22	
ME880SS-6/28			28	
ME880SS-6/ 4.6			4.6	
ME880SS-10/ 32	1 1/4" FNPT	1 1/4" MNPT	32	
ME880SS-10/42			42	
ME880SS-16/105	2" FNPT	2" MNPT	105	
ME880SS-16/114			114	
ME880SS-16/80			80	
ME882S-16/105	2" MNPT	2" MNPT	105	Steel
ME882S-16/114			114	
ME882S-16/80			80	

Note 1 - Gallons per minute liquid propane

Marshall Excelsior Excess Flow Valves are intended for use in liquid or vapor LP Gas or NH₃ systems. Excess flow valves can be used for filling, withdrawal, and vapor equalization in containers or line applications, specifically long lines or branch piping. This product protects against excessive discharge as a result of a break in the hose or piping system. The excess flow feature is designed to remain closed after activation until the system pressure equalizes on both sides of the shutoff poppet.

Features:

- All Models Feature Stainless Steel Stem, Spring, and Valve Guide
- Valve Body and Shutoff Poppet Available In Brass, Zinc Plated Steel, or Stainless Steel
- Available From 3/4" NPT Through 3" NPT (Male x Female & Male x Male)
- Zinc Plated Steel and Stainless Steel Models can be Used with LP Gas or NH₃
- Break Away Feature Leaves Valve Assembly Intact with Internal Hex Broach for Easy Removal
- Available in a Wide Variety of Closing Flow Rates.



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

High Capacity Flanged Bell Housing Kits

Part No.	Description	Fits Internal Valve Models
MEP889-16	2" FNPT Inline ESV/ISC Bell Housing	ME990-16 Series
MEP889-24	3" FNPT Inline ESV/ISC Bell Housing	ME990-24 Series
MEP990-2DFM	2"-300 lb. Double Flange ESV/ISC Bell Housing Conversion Kit	ME990S-2DFM Series
MEP990-3DFM	3"-300 lb. Double Flange ESV/ISC Bell Housing Conversion Kit	ME990S-3DFM Series



MEP990-3DFM



MEP889-16



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Back Check Valves



bergquistinc.com

Marshall Excelsior High Flow Back Check Valves provide back flow protection to container openings or liquid lines where flow is intended for one direction. The valve is normally held closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position. All Marshall Excelsior High Flow Back Check Valves are supplied with o-ring soft seats, which can be removed for metal to metal seating.



ME870S



Features:

- Dual Purpose Seat Reduces Inventory - 2 for 1
- Universal Seat - Remove O-Ring Seal to Create Metal to Metal Seating Surface
- Up to 20% More Flow than Nearest Competitor
- Maximum Product Flow Achieved by Full Port and Stem Travel Design
- All Models Feature Stainless Steel Stem, Spring, and Valve Guide
- Valve Body and Shutoff Poppet Available In Brass, Zinc Plated Steel, or Stainless Steel
- Available From 3/4" NPT through 3" NPT (Male x Female & Male x Male NPT)
- Zinc Plated Steel and Stainless Steel Models can be Used with LP Gas or NH3

Marshall Excelsior Back Check Valves

Part Number	Inlet Connection	Outlet Connection	Closing Flow GPM (I)	Material
ME870-6	3/4" FNPT	3/4" MNPT	24	Brass
ME870-10	1 1/4" FNPT	1 1/4" MNPT	61	
ME870-16	2" FNPT	2" MNPT	187	
ME870S-6	3/4" FNPT	3/4" MNPT	24	Steel
ME870S-10	1 1/4" FNPT	1 1/4" MNPT	61	
ME870S-16	2" FNPT	2" MNPT	187	
ME870S-24	3" FNPT	3" MNPT	449	
ME870SS-6	3/4" FNPT	3/4" MNPT	24	Stainless
ME870SS-10	1 1/4" FNPT	1 1/4" MNPT	61	
ME870SS-16	2" FNPT	2" MNPT	187	
ME872S-16	2" MNPT	2" MNPT	187	Steel

Note 1 - Gallons Per Minute of liquid propane at 10 psig pressure differential



bergquistinc.com

ASME and Forklift Internal Relief Valves

Internal Relief Valves

ASME					
Part Number	Container Connection	Relief (PSIG) Setting	Flow/Air SCFM - UL	Maximum Surface Area Capacity - Sq. Ft.	Raincap
661128	3/4" MPT	250	1852	75	MEH501-1.5
661129	1" MPT	250	2795	124	MEH501-1.75
661130	1 1/4" MPT	250	4312	212	MEH501-2.25
MEVS-UVE433AM/250*	3/4" MPT	250	1930	79	
MEVS-UVE443AM/250*	1" MPT	250	2755	122	
MEVS-UVE453AM/250*	1 1/4" MPT	250	4640	230	
FORKLIFT RELIEF VALVES, DOT*					
MEV75FIR	3/4" MPT	375	368	11	MEP175C
660248			400	11	
661027			3/4" MPT w/Pipeaway	400	11
ENGINE FUEL & RV RELIEF VALVES & DOT					
MEVS-PVE445/AT/375	1" MNPT	375	1625	64	
MEVS-VVE445/AM/250	1" MNPT	250	987	34	
661135	1" MNPT	250	967	25	

*California setting at 275 psig also available.



Forklift Valve Accessories



MEP175-45

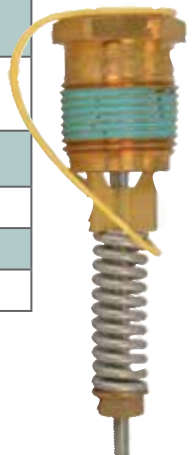


MEP175-90

* All containers used in industrial trucks (including forklift truck cylinders) shall have the pressure relief valve replaced by a new or unused valve within 12 years of the date of manufacture of the container and each 10 years thereafter.



661029



661058



660248

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Semi Internal Pressure Relief Valves




MEV200SIR



Designed for use in large stationary LPG containers as a primary pressure relief valve. These pressure relief valves have been specifically designed to provide optimum performance when installed in either a 2" half or full coupling making them perfect for most large stationary tank installations.

Note: Available with all stainless steel components for NH₃ stationary container service applications.

Semi Internal Pressure Relief Valve Features

- Durable forged brass body with 3" NPT outlet pipeaway thread
- All steel & stainless steel stem, spring, and valve gasket holder for maximum corrosion resistance
- Available with Nitrile, Viton®, or Kalrez® valve seals
- Large seating surface for superior seal performance & reliability
- Available with 125, 250, 265 PSI  LISTED set pressures
- Custom set pressures available

Part No.	STD/ PSIG	Container Connection	Pipeaway Connection	Installation Hex	Flow Capacity SCFM/Air**	Service		Seat Material	Accessories
						LPG	NH ₃		
MEV200SIR/125	125	2" MNPT	3" MNPT	3-1/2"	4,870	Yes	No	Nitrile	MEV200SIR-106 (Cap & Lanyard)
MEV200SIR/250	250	2" MNPT	3" MNPT	3-1/2"	10,925	Yes	No	Nitrile	
MEV200SIR/265	265	2" MNPT	3" MNPT	3-1/2"	11,475	Yes	No	Nitrile	
MEV200SIRV/125	125	2" MNPT	3" MNPT	3-1/2"	4,870	Yes	No	Viton®	
MEV200SIRV/250	250	2" MNPT	3" MNPT	3-1/2"	10,925	Yes	No	Viton®	
MEV200SIRV/265	265	2" MNPT	3" MNPT	3-1/2"	11,475	Yes	No	Viton®	
MEV200SIRK/125*	125	2" MNPT	3" MNPT	3-1/2"	4,870	Yes	No	Kalrez®	MEP104-24 (Pipeaway adapter) see page 31
MEV200SIRK/250*	250	2" MNPT	3" MNPT	3-1/2"	10,925	Yes	No	Kalrez®	
MEV200SIRK/265*	265	2" MNPT	3" MNPT	3-1/2"	11,475	Yes	No	Kalrez®	

* Seat Material not UL Listed

Note: For stainless steel add "S" to part to part number - i.e. MEV200SSIR/265

** Flow rates are shown as bare relief valves.

*** Size relief capacity per NFPA 58 2011, table 5.7.2.6

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291




Full Internal Pressure Relief Valves

Designed for use in mobile LPG & NH₃ containers as a primary pressure relief valve for bobtail and transport trailer installations. All working components are internal to the container connection preventing damage to the valve should a roll-over occur.



Full Internal Pressure Relief Valve Features

- Durable stainless steel body construction
- All stainless steel internal components for maximum corrosion resistance
- Available with Nitrile, Viton®, or Kalrez® valve seals
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI  LISTED set pressures
- Custom set pressures available

**MEV200FIR/
MEV300FIR**



Part No.	STD/ PSIG	Container Con- nection	Installation Hex	Flow Capacity SCFM/ Air**	Service		Seat Material	Accessories	
				UL @ 120% Set Pressure	LPG	NH ₃		Cap	Hex Installation Tool
MEV200FIR/250	250	2"MNPT	1-1/2"	4,460	Yes	Yes	Nitrile	MEV200FIR-09	MEP200FIR
MEV200FIR/265	265	2"MNPT	1-1/2"	4,670	Yes	Yes	Nitrile	MEV200FIR-09	MEP200FIR
MEV200FIRV/250	250	2"MNPT	1-1/2"	4,460	Yes	No	Viton®	MEV200FIR-09	MEP200FIR
MEV200FIRV/265	265	2"MNPT	1-1/2"	4,670	Yes	No	Viton®	MEV200FIR-09	MEP200FIR
MEV200FIRK/250*	250	2"MNPT	1-1/2"	4,460	Yes	Yes	Kalrez® ~	MEV200FIR-09	MEP200FIR
MEV200FIRK/265*	265	2"MNPT	1-1/2"	4,670	Yes	Yes	Kalrez® ~	MEV200FIR-09	MEP200FIR
MEV300FIR/250	250	3" MNPT	2-1/2"	10,865	Yes	Yes	Nitrile	MEV300FIR-09	MEP300FIR
MEV300FIR/265	265	3" MNPT	2-1/2"	11,600	Yes	Yes	Nitrile	MEV300FIR-09	MEP300FIR
MEV300FIRV/250	250	3" MNPT	2-1/2"	10,865	Yes	No	Viton®	MEV300FIR-09	MEP300FIR
MEV300FIRV/265	265	3" MNPT	2-1/2"	11,600	Yes	No	Viton®	MEV300FIR-09	MEP300FIR
MEV300FIRK/250*	250	3" MNPT	2-1/2"	10,865	Yes	Yes	Kalrez® ~	MEV300FIR-09	MEP300FIR
MEV300FIRK/265*	265	3" MNPT	2-1/2"	11,600	Yes	Yes	Kalrez® ~	MEV300FIR-09	MEP300FIR

* Seat Material not UL Listed

** Flow rates are shown for bare relief valves, pipe-aways will reduce flow

*** Size relief capacity per NFPA 58 2011, table 5.7.2.6

~ Recommended for LPG and NH₃ Dual Service Applications

Viton® and Kalrez® are trademarks of DuPont Performance Elastomers.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Flanged Full Internal Pressure Relief Valves




MEV-
200FIR



Designed for use in mobile LPG & NH₃ containers as a primary pressure relief valve for bobtail and transport trailer installations. All working components are internal to the container connection preventing damage to the valve should a roll-over incident occur. Our unique design incorporates a standard 3"ANSI - 300LB. raised face flange connection to assure a 100% leak free connection for rugged over the road applications. This eliminates problems associated with NPT threaded connections and/or tank coupling wear due to vibration caused by over the road transit, providing maximum tank and relief valve service life.



Flanged Full Internal Pressure Relief Valve Features

- Durable single piece stainless steel flanged body construction.
- All stainless steel internal components for maximum corrosion resistance.
- Available with Nitrile, Viton®, or Kalrez® valve seals.
- Large seating surface for superior seal performance & reliability.
- Available with 250 & 265 PSI  LISTED set pressures.
- Custom set pressures available

Part No.	STD/ PSIG	Container Connection	Flow Capacity SCFM/Air**	Service		Seat Material	Accessories
			UL @ 120% Set Pressure	LPG	NH ₃		Cap
MEV300FIR-3F/250	250	3" 300LB. Flange	10,865	Yes	Yes	Nitrile	MEV300FIR-09
MEV300FIR-3F/265	265	3" 300LB. Flange	11,600	Yes	Yes	Nitrile	
MEV300FIRV-3F/250	250	3" 300LB. Flange	10,865	Yes	No	Viton®	
MEV300FIRV-3F/265	265	3" 300LB. Flange	11,600	Yes	No	Viton®	
MEV300FIRK-3F/250*	250	3" 300LB. Flange	10,865	Yes	Yes	Kalrez® ~	
MEV300FIRK-3F/265*	265	3" 300LB. Flange	11,600	Yes	Yes	Kalrez® ~	
* Seat Material not UL Listed							
** Flow rates are shown for bare relief valves.							
*** Size relief capacity per NFPA 58 2011, table 5.7.2.6							
~ Recommended for LPG and NH3 Dual Service Applications							

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

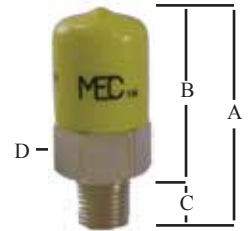


bergquistinc.com

Hydrostatic Pressure Relief Valves

Designed to protect piping and shutoff valves from over pressure situations where liquid LP-Gas or NH₃ has the potential to be trapped. These relief valves provide pressure relief at or in excess of the stated pressure setting, protecting against line or plumbing system failures.

Note: NFPA #58 states, "Hydrostatic relief valves designed to relieve the hydrostatic pressure that can develop in sections of liquid piping between closed shutoff valves shall have pressure settings not less than 400 psig or more than 500 psig unless installed in systems designed to operate above 350 psig. Hydrostatic relief valves for use in systems designed to operate above 350 psig shall have settings not less than 110 percent or more than 125 percent of the system design pressure."



MEP173



Hydrostatic Relief Valve Features

- Compact design to fit any application
- Stainless steel spring
- Non-adjustable, tamper resistant design
- Stainless steel models rated for LP-Gas & NH₃
- Specially designed internal components to increase flow at discharge



MEH225SS



MEH25



MEH50



MEH75

Part No.	Body Material	Seal Material	Start-to-Discharge Setting PSIG	Inlet MNPT	A	B	C	D	Accessory
									Pipeaway Adapter
MEH225	Brass	Nitrile	440	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	—
MEH225SS/350	Stainless Steel	Nitrile	350****	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	—
MEH225SS/400	Stainless Steel	Nitrile	400	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	—
MEH225SS	Stainless Steel	Nitrile	440	1/4"	1-1/16"	13/16"	1/4"	9/16" Hex	—
MEH25/450	Brass	Nitrile	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173*
MEH25K/450	Brass	Kalrez®	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173*
MEH25V/450	Brass	Viton®	450	1/4"	1-59/64"	1-43/64"	1/4"	7/8" Hex	MEP173*
MEH50/460	Brass	Nitrile	460	1/2"	2-1/2"	2-1/8"	3/8"	1-1/8" Hex	MEP174**
MEH75/460	Brass	Nitrile	460	3/4"	2-21/32"	2-5/32"	1/2"	1-1/8" Hex	MEP174**
MEJ602H***	Brass	Nitrile	440	1/4"	—	—	—	—	—

* 1/4" FNPT Outlet; ** 1/2" FNPT Outlet; *** Factory Installed Vent Valve, **** Special Applications

Viton® and Kalrez® are trademarks of DuPont Performance Elastomers.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Protective Relief Valve Caps



These protective caps are made of durable, fade resistant vinyl. All relief valves must have a protective cap to keep debris and water out of the valve.

Part No.	Cap ID	Cap Height	Replacement Protective Cap for Part No.	Part No.	Cap ID	Cap Height	Replacement Protective Cap for Part No.
MEH501-.437	.437"	3/8"	MEH225 MEH225SS Series	MEH501-1.75	1.75"	1"	—
MEH501-.812	.812"	1"	MEH25/450	MEH501-2.25	2.25"	1"	—
MEH501-1.062	1.062"	3/4"	MEH50/460 MEH75/460	MEH501-2.625	2.625"	1"	—
MEH501-1.5	1.50"	1"	—	MEV250-013*	3.974	1/2"	MEV250 Series

* With Lanyard

Relief Valve Covers, Lock Caps, POL Locks

Additional Relief Valve Covers

Part Number	Description
MEH501-.437	Protective Vinly Cap for MEH225
MEH501-.812	7/8" ID Soft Yellow Plastic
MEH501-1.062	1 1/6" ID Soft Yellow Plastic
ME501-1.5	1 1/2" ID Soft Yellow Plastic
MEH501-1.75	1 3/4" ID Soft Yellow Plastic
MEH501-2.25	2 1/4" ID Soft Yellow Plastic
MEH501-2.625	2 3/4" ID Soft Yellow Plastic
3133-54	3" ID Soft Yellow Plastic
MEH502	1/2" & 3/4" Shower Cap Style, 10 per bag
MEH503	3/4" - 1 1/4" Shower Cap Style, 10 per bag
11001	Metal - Fits Exhaust with O.D. between 1" and 1 3/16", 3/4" pipe
11002	Metal - Fits Exhaust with O.D. between 1 1/4" and 1 7/16", 1" pipe
11006	Metal - Fits Exhaust with O.D. between 2 1/4" and 2 7/16", 2" pipe
11011	Metal - Fits Exhaust with O.D. between 3 1/2" and 3 11/16", 3" pipe
11013	Metal - Fits Exhaust with O.D. between 4" and 4 3/16", 3 1/2" pipe
11015	Metal - Fits Exhaust with O.D. between 4 1/2" and 4 11/16", 4" pipe

* Other relief valve caps listed with the relief valves



ME501

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Marshall Excelsior Relief Valve Manifold

Features

- Heavy Duty Ductile Iron Body
- Vapor Equalizing Feature for Easy Port to Port Rotation
- All Stainless Steel Internal Components
- Heavy Duty Lifting Chain Included
- Durable Teflon V-Pack Stem Seals
- Supplied with Spiral Wound Flange Gasket
- Large Diameter Spiked Hand wheel and Port Indicator
- Molded rubber Weather Guard for Manifold Rotary Gear with Port Plug
- Available with 250 PSIG and 265 PSIG Relief Valve Set Pressures



ME QUAD
PORT A



ME QUAD
PORT B

Type Number	Tank Connection	Service		Relief Valve		Flow Rating SCFM/Air@ 120% of set pressure	
		LPG	NH3	Qty	Part Number	US Rating	ASME
ME903S-3F-250VM	3" 300 lb Flange ⁽²⁾	Yes	No	3	MEV250/250	20,400	(2)
ME903S-3F-250CN ⁽¹⁾		Yes	Yes	3	ME250CN/250VM ⁽¹⁾	20,400	(2)
ME903S-3F-265VM		Yes	No	3	MEV250/265VM	20,400	(2)
ME903S-3F-265CN ⁽¹⁾		Yes	Yes	3	ME250/265CN ⁽¹⁾	20,400	(2)
ME904S-3F-250VM		Yes	No	4	MEV250/250VM	27,740	(3)
ME904S-3F-250CN ⁽¹⁾		Yes	Yes	4	ME250/250CN ⁽¹⁾	27,740	(3)
ME904S-3F-265VM		Yes	No	4	MEV250/265VM	27,740	(3)
ME904S-3F-265CN ⁽¹⁾		Yes	Yes	4	ME250/265CN ⁽¹⁾	27,740	(3)
ME904S-4F-250VM	4" 300 lb Flange	Yes	No	4	MEV250/250VM	27,740	(3)
ME904S-4F-250CN ⁽¹⁾		Yes	Yes	4	ME250/250CN ⁽¹⁾	27,740	(3)
ME904S-4F-265VM		Yes	No	4	MEV250/250VM	27,740	(3)
ME904S-4F-265CN ⁽¹⁾		Yes	Yes	4	ME250/250CN ⁽¹⁾	27,740	(3)
ME903S-4F-250VM		Yes	No	3	MEV250/250VM	20,400	(2)
ME903S-4F-250CN ⁽¹⁾		Yes	Yes	3	ME250/250CN ⁽¹⁾	20,400	(2)
ME903S-4F-265VM		Yes	No	3	MEV250/265VM	20,400	(2)
ME903S-4F-265CN ⁽¹⁾		Yes	Yes	3	ME250/265CN ⁽¹⁾	20,400	(2)

Notes: (1) Relief valve seal material not UL listed
(2) For use with modified 300 lb ANSI flange with 4" port

Accessories

ME904SK	8 stud/Nut universal mounting kit - hardened steel for ME903S and ME904S series manifolds
MEP250	Installation and removal tool for 2 1/2" external relief valves
MEV250-015	Replacement stainless steel weep hole deflector for MEV250 series relief valves
MEV250-013	Replacement vinyl cap with lanyard for MEV250 series relief valves
MEP170	2" MNPT x 2 1/2" FNPT relief valve adaptor

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Mini Quad-Port Relief Valve Manifold



bergquistinc.com



ME904S-16/250

For use with large LPG & NH₃ stationary storage containers with 2" FNPT openings. These Relief Manifolds have an additional relief valve excluded from the flow rating, which allows for service and/or exchange of any one relief valve without evacuating the tank. Our large port selection handle allows for each specific valve port to be closed off so that the relief valve may be removed while the remaining valves stay under pressure protecting the tank and contents. Each manifold model is rated based on the flow through the relief valves with one valve removed from service.

- Heavy Duty Ductile Iron Body
- All Stainless Steel Internal Components
- Durable Teflon V-Pack Stem Seals
- Large Diameter Port Selection Handle and Port Indicator
- Molded Rubber Weather Guard for Manifold Rotary Gear with Port Plug
- Available with 250 PSIG and 265 PSIG Relief Valve Set Pressures
- Vapor Equalizing Feature for Easy Port to Port Rotation
- Includes Tank Stabilizer Nut for Maximum Strength at Container Connection

COVERS MOST 30,000 GALLON TANKS WITH ONLY TWO MANIFOLDS



MEP178K
(Pipeaway
Adapter and
Stabilizer Kit)

Part No.	Relief Valve STD	Application		Tank Connection Size	Relief Valve		***Flow Rating SCFM/AIR @ 120% of set pressure
ME902S-16B/250	250 PSIG	YES	NO	2" MNPT	2	MEV125B/250	5,115 (1)
ME902S-16/250	250 PSIG	NO	YES	2" MNPT	2	MEV125/250	5,115 (1)
ME902S-16/265	265 PSIG	NO	YES	2" MNPT	2	MEV125/265	5,855 (1)
ME903S-16B/250	250 PSIG	YES	NO	2" MNPT	3	MEV125B/250	9,320 (2)
ME903S-16/250	250 PSIG	NO	YES	2" MNPT	3	MEV125/250	9,320 (2)
ME903S-16/265	265 PSIG	NO	YES	2" MNPT	3	MEV125/265	10,795 (2)
ME904S-16B/250	250 PSIG	YES	NO	2" MNPT	4	MEV125B/250	12,481 (3)
ME904S-16/250	250 PSIG	NO	YES	2" MNPT	4	MEV125/250	12,481 (3)
ME904S-16/265	265 PSIG	NO	YES	2" MNPT	4	MEV125/265	13,630 (3)
***Flow rating based on number of valves indicated in parenthesis (). Flow rates shown are for bare relief valves, pipeways will reduce flow rates. Note: For 265 PSIG set pressure change part number suffix - i.e. ME903S-16/265 To order Viton seal materials add "VM" for Viton® after the prefix part number - i.e. ME904S-16B/250VM							
Accessories							
MEV125-109	Replacement Plastic Rain Cap for MEV125 Series Relief Valves - Black						
MEP178	Pipeaway Adapter for MEV125 Series w/ 2" FNPT Outlet - Aluminum						
MEP178K	Pipeaway Adapter Kit w Stabilizer Bracket for ME904S-16						
MEP123	Installation / Removal Tool for MEV125 Series Relief Valves						

Pipeaway Adapter

Designed to be installed between semi-internal pressure relief valves and vent stacks or at any point in plant plumbing where breakaway protection is needed. This plated steel adapter has a weak section to help protect the relief valve if vent stack is damaged or to help protect plant plumbing from catastrophic failure.

Part No.	Inlet & Outlet	Material
MEP104-24	3" FNPT	Steel



For LP-Gas & NH₃



bergquistinc.com



MEV250VM/250



MEP250



MEP170



MEV50/250

External Pressure Relief Valves

Part No.	Container Connection	Seal Material*	Start-to-Discharge Setting PSIG	OAL	Wrench Hex	Flow Capacity SCFM/Air** UL @ 120% Set Pressure	Suitable for Tanks w/Surface Area Up To:***	Application	Accessories
MEV25/60	1/4" MNPT	Nitrile	60	1-59/64"	7/8"	—	—	LPG	MEP173 Pipeaway Adapter
MEV25/250	1/4" MNPT	Nitrile	250	1-59/64"	7/8"	—	—	LPG	
MEV25/312	1/4" MNPT	Nitrile	312	1-59/64"	7/8"	—	—	LPG	
MEV25/375	1/4" MNPT	Nitrile	375	1-59/64"	7/8"	—	—	LPG	
MEV125B/250	1-1/4" MNPT	Nitrile	250	10-1/2"	2-11/16"	6,330	1,010	LPG	MEV125-013 Replacement cap MEP170 Relief valve adapter MEP123 Installation and removal tool
MEV125B/265	1-1/4" MNPT	Nitrile	265	10-1/2"	2-11/16"	6,545	1,045	LPG	
MEV125BVM/250	1-1/4" MNPT	Nitrile	250	10-1/2"	2-11/16"	6,330	1,010	LPG	
MEV125BVM/265	1-1/4" MNPT	Nitrile	265	10-1/2"	2-11/16"	6,545	1,045	LPG	
MEV125/250	1-1/4" MNPT	Nitrile	250	10-1/2"	2-11/16"	6,330	1,010	LPG & NH ₃	
MEV125/265	1-1/4" MNPT	Nitrile	265	10-1/2"	2-11/16"	6,545	1,045	LPG & NH ₃	
MEV125VM/250	1-1/4" MNPT	Nitrile	250	10-1/2"	2-11/16"	6,330	1,010	LPG	
MEV125VM/265	1-1/4" MNPT	Nitrile	265	10-1/2"	2-11/16"	6,545	1,045	LPG	
MEV50/250	1/2" MNPT	Nitrile	250	2-1/2"	1-1/8"	200	—	LPG	MEP174 Pipeaway Adapter
MEV50/375	1/2" MNPT	Nitrile	375	2-1/2"	1-1/8"	—	—	LPG	
MEV75/250	3/4" MNTP	Nitrile	250	2-21/32"	1-1/8"	—	—	LPG	
MEV75/312	3/4" MNTP	Nitrile	312	2-21/32"	1-1/8"	—	—	LPG	
MEV75/375	3/4" MNTP	Nitrile	375	2-21/32"	1-1/8"	—	—	LPG	
MEV250VM/250	2-1/2" MNPT	Viton®	250	10-1/2"	4-1/8"	10,333	610 Sq Ft.	LPG	MEP170 Re- lief Valve Adapter MEP250 Installation & Re- moval Tool
MEV250CN/250	2-1/2" MNPT	Nitrile	250	10-1/2"	4-1/8"	10,333	610 Sq Ft.	LPG & NH ₃	
MEV250VM/265	2-1/2" MNPT	Viton®	265	10-1/2"	4-1/8"	10,948	655 Sq Ft.	LPG	
MEV250CN/265	2-1/2" MNPT	Nitrile	265	10-1/2"	4-1/8"	10,948	655 Sq Ft.	LPG & NH ₃	

Note: Kalrez option available

* Nitrile and Kalrez® not UL Listed

** Flow rates are shown for bare relief valves, pipeaways will reduce flow

*** Per NFPA 58, table 5.7.2.5 area shown is for UL or ASME flow rating, which ever is greater

Part No.	Description	Material	STD Setting	Flow Capacity SCFM/Air UL@120% Set Pressure	OAL Length (A)	Height (B)	Install Depth (C)	Install Hex (D)
MEVS-PVE431B/250	3/4" MNPT Vapor Relief Valve w/Cap	Nitrile	250 PSIG	1,740	3-21/64"	2-7/16"	1"	1-3/4"
MEVS-PVE431/250	1" MNPT Vapor Relief Valve w/Cap	Nitrile	250 PSIG	1,740	4"	2-53/64"	3/4"	1-3/4"
Accessories								
MEPS-UT12X	Replacement Poly Cap for MEVS-PVE431 and 431B							
MEPS-431	1" FNPT Pipeaway Adapter for MEVS-PVE431 and 431B							

Pressure Relief Valve Warning

Continued next page



Chart A - Minimum Required Rate of Discharge for LP-Gas Pressure Relief Valves Used on ASME Containers

From NFPA Code #58, Table 5.7.2.6 (2011 Edition)

Minimum required rate of discharge in cubic feet per minute of air at 120% of the maximum permitted start-to-discharge pressure relief valves to be used on containers other than those constructed in accordance with Interstate Commerce specification.

Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air
20 or less	626	85	2050	150	3260	230	4630	360	6690	850	13540	1500	21570
25	751	90	2150	155	3350	240	4800	370	6840	900	14190	1550	22160
30	872	95	2240	160	3440	250	4960	380	7000	950	14830	1600	22740
35	990	100	2340	165	3530	260	5130	390	7150	1000	15470	1650	23320
40	1100	105	2440	170	3620	270	5290	400	7300	1050	16100	1700	23900
45	1220	110	2530	175	3700	280	5450	450	8040	1100	16720	1750	24470
50	1330	115	2630	180	3790	290	5610	500	8760	1150	17350	1800	25050
55	1430	120	2720	185	3880	300	5760	550	9470	1200	17960	1850	25620
60	1540	125	2810	190	3960	310	5920	600	10170	1250	18570	1900	26180
65	1640	130	2900	195	4050	320	6080	650	10860	1300	19180	1950	26750
70	1750	135	2990	200	4130	330	6230	700	11550	1350	19780	2000	27310
75	1850	140	3080	210	4300	340	6390	750	12220	1400	20380		
80	1950	145	3170	220	4470	350	6540	800	12880	1450	20980		

Surface area = Total outside surface area of container in square feet.

When the surface area is not stamped on the name plate or when the marking is not legible, the area can be calculated by using one of the following formulas:

1. Cylindrical container with hemispherical heads. Area (in sq. ft.) = overall length (ft.) x outside diameter (ft.) x 3.1416
2. Cylindrical container with other than hemispherical heads. Area (in sq. ft.) = [overall length (ft.) + .3 outside diameter (ft.)] x outside diameter (ft.) x 3.1416.
3. Spherical container. Area (in sq. ft.) = outside diameter (ft.) squared x 3.1416.

Flow Rate CFM Air = Required flow capacity in cubic feet per minute of air at standard conditions, 60°F. and atmospheric pressure (14.7 psia).

The flow rate discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater than 2000 square feet, the required flow rate can be calculated using the formula. Flow Rate in CFM Air = $53.632 A^{0.82}$. Where A = total outside surface area of the container in square feet.

Valves not marked "Air" have rate marking in cubic feet per minute of liquefied petroleum gas. These can be converted to ratings in cubic feet per minute of air by multiplying the liquefied petroleum gas ratings by the factors listed below. Air flow ratings can be converted to ratings in cubic feet per minute of liquefied petroleum gas by dividing the air ratings by the factors listed below.

Air Conversion Factors

Container Type	100	125	150	175	200
Air Conversion Factor	1.162	1.142	1.113	1.078	1.010

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Pressure Relief Valve Warning

Continued

Chart B - Minimum Required Rate of Discharge for Anhydrous Ammonia Pressure Relief Valves

Used on ASME Containers

From ANSI K61.1-1999, Appendix A

Minimum required rate of discharge in cubic feet per minute of air at 120% of the maximum permitted start-to-discharge pressure for pressure relief valves to be used on containers other than those constructed in accordance with United States Department of Transportation cylinder specifications.

Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air	Surface Area Sq. Ft.	Flow Rate CFM Air
20 or less	626	85	2050	150	3260	230	4630	360	6690	850	13540	1500	21570
25	751	90	2150	155	3350	240	4800	370	6840	900	14190	1550	22160
30	872	95	2240	160	3440	250	4960	380	7000	950	14830	1600	22740
35	990	100	2340	165	3530	260	5130	390	7150	1000	15470	1650	23320
40	1100	105	2440	170	3620	270	5290	400	7300	1050	16100	1700	23900
45	1220	110	2530	175	3700	280	5450	450	8040	1100	16720	1750	24470
50	1330	115	2630	180	3790	290	5610	500	8760	1150	17350	1800	25050
55	1430	120	2720	185	3880	300	5760	550	9470	1200	17960	1850	25620
60	1540	125	2810	190	3960	310	5920	600	10170	1250	18570	1900	26180
65	1640	130	2900	195	4050	320	6080	650	10860	1300	19180	1950	26750
70	1750	135	2990	200	4130	330	6230	700	11550	1350	19780	2000	27310
75	1850	140	3080	210	4300	340	6390	750	12220	1400	20380		
80	1950	145	3170	220	4470	350	6540	800	12880	1450	20980		

Surface area = Total outside surface area of container in square feet.

When the surface area is not stamped on the name plate or when the marking is not legible, the area can be calculated by using one of the following formulas:

1. Cylindrical container with hemispherical heads. Area (in sq. ft.) = overall length (ft.) x outside diameter (ft.) x 3.1416
2. Cylindrical container with other than hemispherical heads. Area (in sq. ft.) = [overall length (ft.) + .3 outside diameter (ft.)] x outside diameter (ft.) x 3.1416.
3. Spherical container. Area (in sq. ft.) = outside diameter (ft.) squared x 3.1416.

Flow Rate CFM Air = Required flow capacity in cubic feet per minute of air at standard conditions, 60°F. and atmospheric pressure (14.7 psia).

The rate of discharge may be interpolated for intermediate values of surface area. For containers with total outside surface area greater than 2,500 square feet, the required flow rate can be calculated using the formula, Flow Rate in CFM Air = $22.11 A^{0.82}$ where A = outside surface area of the container in square feet.

Conversion Factor

$$\begin{aligned} \text{ft}^2 \times 0.092\ 903 &= \text{m}^2 \\ \text{CFM} \times 0.028\ 317 &= \text{m}^3/\text{min} \\ \text{ft.} \times 0.304\ 8 &= \text{m} \end{aligned}$$

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

1-1/4" MNPT x 4 Bolt Flange Internal Valve




bergquistinc.com

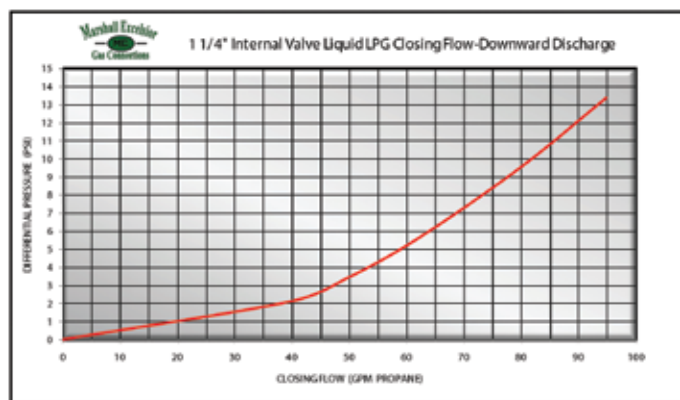
The ME991-10 Series valves feature our new modular Excel-Flange 4 bolt outlet flange design that can be easily adapted to both NTP thread or socket weld type B companion flanges (ME842 & ME843 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve outlet. Intended for use on bobtail trucks and storage tanks with 1-1/4" threaded connections in directional or bi-directional flow applications. Provides both manual shut-down as well as excess flow closing in the event of the piping being separated from the valve. Can be equipped with manual latch, pneumatic or rotary actuator, open/ closing devices. All valve models are equipped with a break-away feature in the cast body which permits the piping to shear off in the event of side impact, leaving the valve poppet intact and protecting the tank from catastrophic product loss. For liquid or vapor service applications.

ME991-10



1-1/4" MNPT x 4 Bolt Type A
Flanged Internal Valve

- Durable 316 SS body
- All stainless internal component construction
- Precision machined hard coated stem
- Fully retained nitrile seat disc
- Large variety of excess flow closing values
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
-  LISTED for LPG & NH₃ service
- Rulon™ bearing on stub shaft
- 4 Bolt universal outlet flange for built in union joint



"X"	1-1/4" Valve Liquid Closing Flow Values
35	35 GPM LPG Closing Flow
55	55 GPM LPG Closing Flow
85	85 GPM LPG Closing Flow
* For NH ₃ multiply GPM by .90	

Excela-Flange
Bobtail



MEC Excela-Flange™ 1-1/4" NPT x 4 Bolt Internal Valves			
Part No.	Description	Mating Flange Type	Weight (lbs.)
ME991-10-"X"	1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - Only	B	5.7
ME991A-10-"X"	1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - w/Pneumatic Actuator	B	9.5
ME991AR-10-"X"	1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - w/Rotary Actuator	B	10.2
ME991M-10-"X"	1-1/4" MNPT x 4 Bolt Type A Flange Internal Valve - w/Manual Latch	B	5.7
* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME991-10-85 (85 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME991K-10-35 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME991N-10-35 To order Viton® add "V" for Viton® after the prefix part number i.e. ME991V-10-35			

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

High Flow Socket Weld Back Check Valves

These Excelsa-Flange High Flow Socket Weld Back Check valves lead the industry with up to 20% More Flow than the nearest competitor. Back check valves provide flow protection to container openings or liquid lines where flow is intended for one direction. The valve is normally closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position.

Being socket weld connection points, these valves are ideally suited for inline applications where welded piping construction is desired, such as in a bobtail spray fill / bypass return combination line. A perfect companion to the MEC Excelsa-Flange product line. Only available with metal-to-metal seat due to high heat associated with socket weld construction/installation.

NOTE: Leaving the O-ring soft seat installed on the valve will require a minimum of 15 psig pressure differential between the transfer line and container to unseat the valve and allow it to fully open.



ME870SW-16
2" Male Socket Weld X 2" Female Socket Weld
Back Check Valve

- Up to 20% More Flow than nearest competitor
- Maximum flow achieved by full port and increased stem travel design
- Integral breakaway feature leaves valve assembly intact
- All stainless steel internal components
- High temperature Inconel spring withstands heat from welding

Excelsa-Flange
Bobtail



MEC Excelsa-Flo High Flow Socket Weld Back Check Valve				
Part No.	Inlet Socket Weld	Outlet Socket Weld	Propane Flow @ 10 PSIG Pressure Differential	Weight (lbs.)
ME870SW-16	2" Female	2" Male	189	1.77
* Rated for LP-Gas & NH ₃				
** Includes removable o-ring				

Liquid Butane Capacity = Flow Rate x .94

Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

2"-300LB. x 2" -8 Bolt Companion Flange Series Internal Valves



ME994S-2F-16

The ME994S-2F series valves feature our new modular Excelsa-Flange 2"-8 bolt outlet flange design that can be easily adapted to either 2" NPT or socket weld companion flanges (MEP994S-2F-2SW) making it universal to either piping construction.

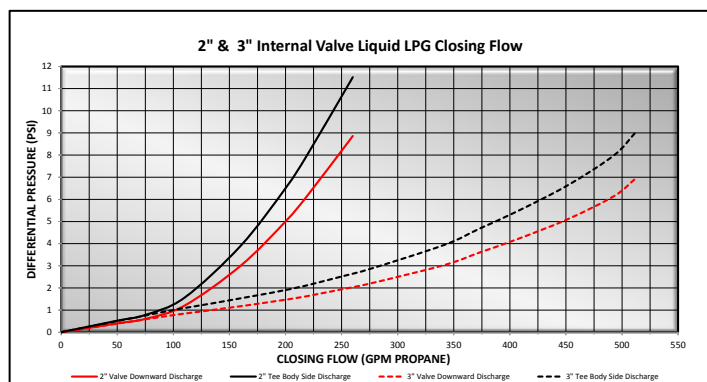
- Durable steel body with cadmium surface plating
- Universal 2"-8 bolt outlet flange connection for threaded or welded piping
- Universal 2" -8 bolt outlet flange provides a built-in union joint for easy servcability
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
- UL LISTED for LPG & NH₃ service
- Rulon™ bearings on stem and stub shafts
- Fits standard 2" - 300# flanged tank openings



X	2" Valve Liquid Closing Flow Values
110	110 GPM LPG Closing Flow
160	160 GPM LPG Closing Flow
260	260 GPM LPG Closing Flow

* For NH₃ Multiply GPM by .90

Excelsa-Flange Transport



MEC Excelerator™ Excelsa-Flange 2"-300lb. x 2"-8 Bolt Companion Flange Internal Valves		
Part No. *	Description	Weight (lbs.)
ME994S-2F-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x 2"-8 Bolt Flange Internal Valve - Only	21.6
ME994SA-2F-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x 2"-8 Bolt Flange Internal Valve - with Pneumatic Actuator	35.5
ME994SAR-2F-16-"X"	Excelerator™ 2"-300 lb. Modified Single Flange x 2"-8 Bolt Flange Internal Valve - with Rotary Actuator	28.9

* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME994S-2F-16-260 (260 GPM)
 To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME994SK-2F-16-260
 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME994SN-2F-16-260
 To order Viton® add "V" for Viton® after the prefix part number i.e. ME994SV-2F-16-260
 Available in Stainless Steel – add "SS" to part number i.e. ME994SS-3F-24-500

MEC Excelerator™ Excelsa-Flange Companion Flange Kits		
Part No. *	Description	
MEP994-2F-16	2" -8 Bolt x 2" FNPT Excelsa-Flange Companion Flange Kit w/ Bolts and O-Ring	3.5
MEP994-2F-2SW	2" -8 Bolt x 2" Socket Weld Excelsa-Flange Companion Flange Kit w/ Bolts and O-Ring	3.6

Available in Stainless Steel with Stainless Steel Bolts – Add "SS" to part number i.e. MEP994SS-3F-3SW

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

3" -300LB. x 3"-8 Bolt Companion Flange Series Internal Valves

The ME994S-3F series valves feature our new modular Excela-Flange 3"-8 bolt outlet flange design that can be easily adapted to either 3" NPT or socket weld companion flanges (MEP994S-3F-3SW) making it universal to either piping construction.

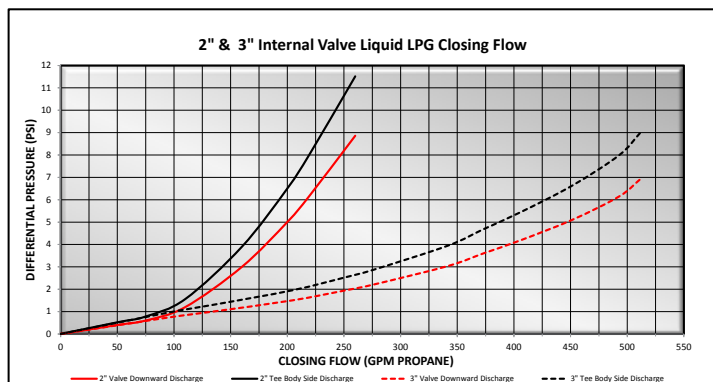
- Durable steel body with cadmium surface plating
- Universal 3"-8 bolt outlet flange connection for threaded or welded piping
- Universal 3"-8 bolt outlet flange provides a built-in union joint for easy servcability
- All stainless internal component construction
- One piece threaded packing gland
- Precision machined hard coated stem & stem guide
- Fully retained nitrile seat disc
- Largest variety of excess flow closing values
- Corrosion resistant sleeved flange bolt holes
- Xylan coated corrosion resistant mounting studs
- Roller cam actuation
- Industry's fastest bleed time
- Removable data plate
- Industry's easiest valve to service
- Standard construction utilizes nitrile seals
- Available with Neoprene, Viton®, or Kalrez® seals
- Available with 316 Stainless Steel bodies
- UL LISTED for LPG & NH₃ service
- RulonTM bearings on stem and stub shafts
- Fits standard 3" - 300# flanged tank openings



ME994S-3F-24

Excela-Flange Transport

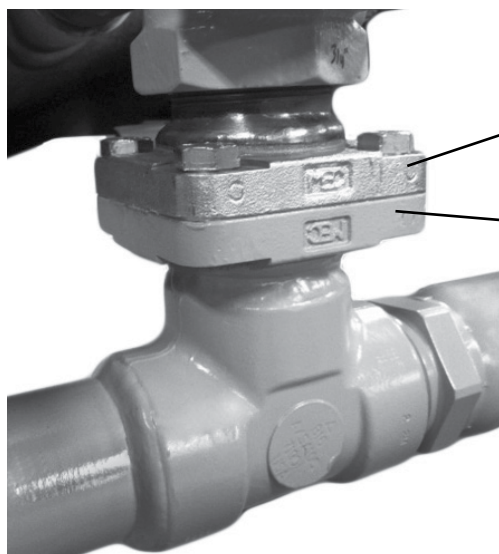
MEC Excelerator TM Excela-Flange 3"-300 lb. x 3" -8 Bolt Companion Flange Internal Valves		
Part No. *	Description	Weight (lbs.)
ME994S-3F-24-"X"	Excelerator TM 3"-300 lb. Modified Single Flange x 3"-8 Bolt Companion Flange Internal Valve - Only	38.3
ME994SA-3F-24-"X"	Excelerator TM 3"-300 lb. Modified Single Flange x 3"-8 Bolt Companion Flange Internal Valve - with Pneumatic Actuator	52.8
ME994SAR-3F-24-"X"	Excelerator TM 3"-300 lb. Modified Single Flange x 3"-8 Bolt Companion Flange Internal Valve - with Rotary Actuator	45.9
<p>* Note: Indicate desired excess flow closing value when ordering - see chart for values i.e. ME994S-3F-24-260 (260 GPM) To order Kalrez® add "K" for Kalrez® after the prefix part number i.e. ME994SK-3F-24-260 To order Neoprene add "N" for Neoprene after the prefix part number i.e. ME994SN-3F-24-260 To order Viton® add "V" for Viton® after the prefix part number i.e. ME994SV-3F-24-260 To order Stainless Steel add "SS" to part number i.e. ME994SS-3F-24-500</p>		
MEC Excelerator TM Excela-Flange Companion Flange Kits		
Part No. *	Description	
MEP994-3F-24	3" -8 Bolt x 3" FNPT Excela-Flange Companion Flange Kit w/ Bolts and O-Ring	4.8
MEP994-3F-3SW	3" -8 Bolt x 3" Socket Weld Excela-Flange Companion Flange Kit w/ Bolts and O-Ring	4.9
Available in Stainless Steel with Stainless Steel Bolts – Add "SS" to part number i.e. MEP994SS-3F-3SW		



X	3" Valve Liquid Closing Flow Values
175	175 GPM LPG Closing Flow
250	250 GPM LPG Closing Flow
300	300 GPM LPG Closing Flow
375	375 GPM LPG Closing Flow
400	400 GPM LPG Closing Flow
475	475 GPM LPG Closing Flow
500	500 GPM LPG Closing Flow
* For NH ₃ Multiply GPM by .90	

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

4-Bolt Unions and Companion Flanges



ME841-16F
(Requires purchase of flat face flange)
TYPE A FLANGE

ME843-16-107
(Requires purchase of mating kit)
TYPE B FLANGE



Excelsa-Flange Bobtail Transport

- All steel construction for maximum durability and weldability
- Available in 1-1/4" - 2" FNPT or Socket Weld configurations
- Zinc plated flange faces for maximum corrosion resistance
- No plating on weld surfaces for improved weld quality with minimum weld prep
- Approved for use in LPG or NH₃ service
- Rated 400 WOG

These 4 bolt unions can be used anywhere system piping needs to be joined together between shut off valves. Using piping unions such as these significantly improves the ease by which maintenance can be performed particularly where long runs or multiple directional changes are necessary. Our flange unions feature a captured o-ring design, hardened mounting bolts, and are available in NTP or Socket Weld configurations. Suitable for use in mobile or stationary applications.

MEC Flat Face Flanges			
Part No.	Description	Flange Type	Weight (lbs.)
ME842-10-107	1-1/4" FNPT Tapped 4 Bolt Flat Face Flange Adapter	B	2.7
ME843-10-107	1-1/4" Socket Weld 4 Bolt Flat Face Flange Adapter	B	2.6
ME842-12-107	1-1/2" FNPT Tapped 4 Bolt Flat Face Flange Adapter	B	2.6
ME843-12-107	1-1/2" Socket Weld 4 Bolt Flat Face Flange Adapter	B	2.5
ME842-16-107	2" FNPT Tapped 4 Bolt Flat Face Flange Adapter	B	2.2
ME843-16-107	2" Socket Weld 4 Bolt Flat Face Flange Adapter	B	2.0
MEC Universal Flange Kit			
Part No.	Description	Flange Type	Weight (lbs.)
ME840-10F	1-1/4" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring	A	3.0
ME841-10F	1-1/4" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring	A	2.9
ME840-12F	1-1/2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring	A	2.8
ME841-12F	1-1/2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring	A	2.7
ME840-16F	2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring	A	2.5
ME841-16F	2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring	A	2.3
MEP840-10	1-1/4" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring	A	4.8
MEP841-10	1-1/4" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring	A	4.7
MEP840-12	1-1/2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring	A	4.6
MEP841-12	1-1/2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring	A	4.6
MEP840-16	2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring	A	4.3
MEP841-16	2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring	A	4.2

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Turbo-Flo LE Dry Break Transfer Systems

FOR USE WITH LPG & NH₃ TRANSFER SYSTEMS

The ME808-16 Series valves feature our new modular Excelsa-Flange 4-bolt inlet flange design that can be easily adapted to both NTP thread or socket weld type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet. The Turbo-Flo LE system provides a safe, ergonomic and efficient solution for liquid or vapor transfer applications while increasing productivity and dramatically reducing fugitive product emissions. For use with bobtail, transport, railcar and bulk plant applications.



ME808-16

Excelsa-Flange Bobtail Transport



- Universal 4 bolt inlet flange for built in union joint
- Reduces product emissions 99.6% over standard valve combinations
- 100% compatible with all existing acme transfer connections
- Heavy duty spring loaded safety latch prevents accidental opening of valve
- Cam operated vapor equalization feature for smooth valve operation
- All stainless internal components
- Factory installed hydrostatic relief valve
- Specially formulated low temperature valve seals for maximum performance and life under all operating conditions
- Integrated Back Check (IBC) feature to allow trapped liquid to be forced back upstream of the valve if liquid is trapped downstream of the valve seat.
- Available with brass or steel acme connections.

MEC Excelsa-Flange Turbo-Flo LE™ Transfer Valves

Part No.	Description	Discharge at Disconnect	Material	Mating Flange Type	Weight (lbs.)
ME808-16	Low Emission Transfer Valve 4 Bolt Type B Flange x 3-1/4" M. Acme Fixed	3.2 CC	Ductile/Brass	A	12.3
ME808A-16	Low Emission Transfer Valve 4 Bolt Type B Flange x 3-1/4" M. Acme Fixed - w/ screen	3.2 CC	Ductile/Brass	A	12.3
ME808S-16	Low Emission Transfer Valve 4 Bolt Type B Flange x 3-1/4" M. Acme Fixed	3.2 CC	Ductile/Steel	A	12.3
ME808SA-16	Low Emission Transfer Valve 4 Bolt Type B Flange x 3-1/4" M. Acme Fixed - w/ screen	3.2 CC	Ductile/Steel	A	12.4

Replacement Parts & Accessories

Part No.	Description
ME806HRK	Handle Repair Kit for ME806 & ME807 Series
ME807CRK	Replacement 3-1/4" M. Acme Adapter Repair Kit (Brass) for ME807 Series
ME807SCRK	Replacement 3-1/4" M. Acme Adapter Repair Kit (Steel) for ME807 Series
ME807VRK	Complete Valve Repair Kit for ME807 Series
ME807PIB	MEC Smart Interlock Sensor Kit for ME807 Series

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Excelsa-Flange Bobtail Transport



ME819P-16
2" - Flange x NPT
Globe Valve

The Next Generation Flanged 2" Globe and Angle Valves feature our new modular Excelsa-Flange 4 Bolt inlet/outlet design that can be easily adapted to both NTP thread or socket weld type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet/outlet connections.

- All of the same great features of the original full flow MEC globe valves with additional product performance enhancements.

Pilot Feature: (P) This globe valve model incorporates a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

Integrated Back Check Feature: (IBC) These globe and angle valve models incorporate an integrated back check feature to allow trapped downstream pressure to automatically bypass to the upstream side of the valve. These valves are designed for systems with flow in one direction, creating a closed loop system that prevents the product from relieving to the atmosphere making for a low emission, more environmentally friendly option.

Integrated Back Check
Feature



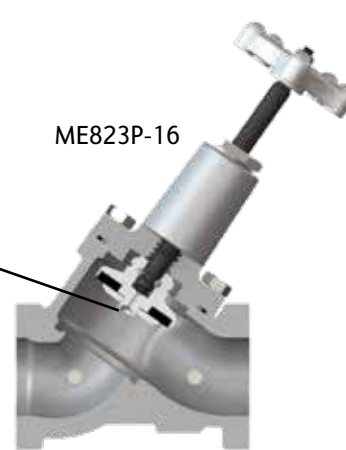
ME823IBC-16



Pilot Feature



ME823P-16



MEC Excelsa-Flange Single & Double Flange Next Generation Globe and Angle Valves

Angle	Globe	Description	Side Ports	Inlet	Outlet	Mating Flange Type	Weight (lbs.)	
							Angle	Globe
ME813IBC-16	ME823IBC-16	2" Full Flow 4 Bolt Double Flange (IBC) Valve	1/4" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	17.6	20.1
—	ME822IBC-16	2" Full Flow 4 Bolt Double Flange (IBC) Valve	1/2" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	—	19.7
ME813P-16	ME823P-16	2" Full Flow 4 Bolt Double Flange (P) Valve	1/4" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	18.1	20.1
—	ME822P-16	2" Full Flow 4 Bolt Double Flange (P) Valve	1/2" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	—	20.1
—	ME818IBC-16	2" Full Flow 4 Bolt Single Flange (IBC) Valve	1/2" FNPT	4 Bolt Flange Type B	2" FNPT	A	—	18.2
—	ME818P-16	2" Full Flow 4 Bolt Single Flange (P) Valve	1/2" FNPT	4 Bolt Flange Type B	2" FNPT	A	—	18.2
—	ME819IBC-16	2" Full Flow 4 Bolt Single Flange (IBC) Valve	1/4" FNPT	4 Bolt Flange Type B	2" FNPT	A	—	18.1
—	ME819P-16	2" Full Flow 4 Bolt Single Flange (P) Valve	1/4" FNPT	4 Bolt Flange Type B	2" FNPT	A	—	18.1

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



2" Bottom Port Pilot Operated Flanged Globe Valves

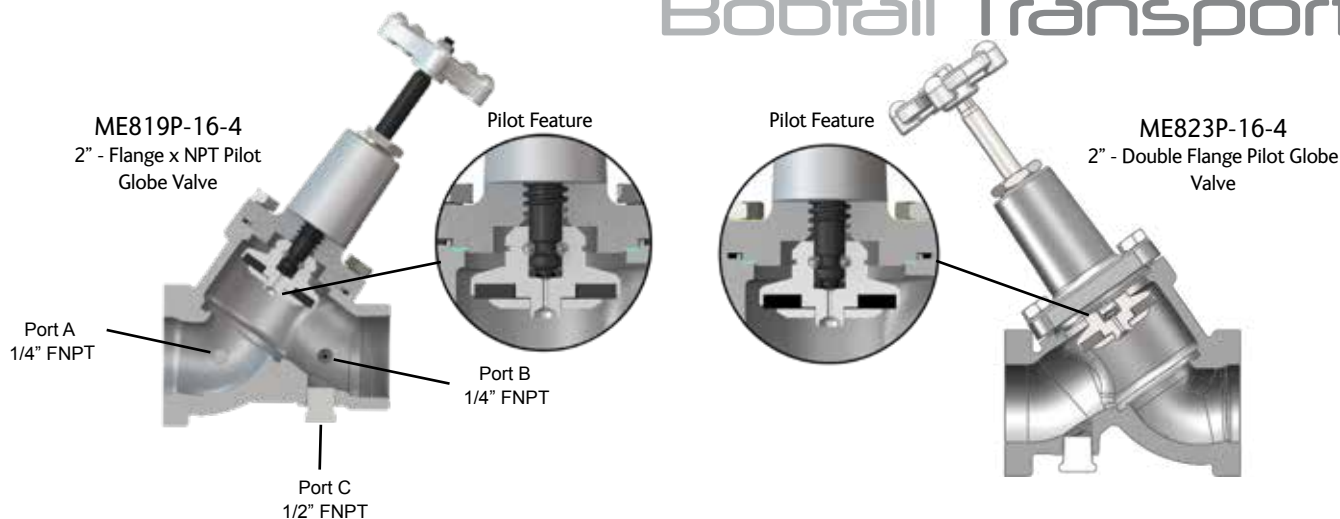
Provides a positive shut-off valve that is highly reliable with full flow performance while providing bi-directional flow. Ideally suited for use on transport trailers with 1/2" blow down lines to provide rapid and complete product evacuation prior to disconnecting transfer hose. Valves can be purchased with hydrostatic relief valves pre-installed on the out board side port of the globe valve main seal.

- All of the same great features of the original full flow MEC globe valves with additional product performance enhancements.

Pilot Feature: (P) This globe valve model incorporates a pilot orifice feature to facilitate pressure equalization in sections of system piping that have bidirectional flow or high differential pressures. This greatly reduces the opening torque required and prevents premature wear of the valve seat.

The Excelsa-Flange 2" bottom port operated flanged globe valves feature our new modular Excelsa-Flange 4 bolt inlet/outlet flange design that can be easily adapted to both NPT thread or socket weld Type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet/outlet connections.

Excelsa-Flange Bobtail Transport



MEC Excelsa-Flange Full Flow Single & Double Flange Globe Valves								
Part No	Description	1/4" FNPT Side Port A	1/4" FNPT Side Port B	1/2" FNPT Side Port C	Inlet	Outlet	Mating Flange Type	Weight (lbs)
ME822P-16-4*	2" Full Flow 4 Bolt Flange (P) Valve	Plugged	Plugged	Plugged	4 Bolt Flange Type B	4 Bolt Flange Type B	A	20.2
ME823P-16-4		Plugged	Plugged	Plugged		4 Bolt Flange Type B	A	20.1
ME823P-16H-4		Plugged	MEH225	Plugged		4 Bolt Flange Type B	A	20.1
ME823P-HSS-4		Plugged	MEH225SS	Plugged		4 Bolt Flange Type B	A	20.1
ME818P-16-4*		Plugged	Plugged	Plugged		2" FNPT	A	18.2
ME819P-16-4		Plugged	Plugged	Plugged		2" FNPT	A	18.2
ME819P-16H-4		Plugged	MEH225	Plugged		2" FNPT	A	18.2
ME819P-16HSS-4		Plugged	MEH225SS	Plugged		2" FNPT	A	18.2
*Indicates all ports 1/2" FNPT								
Accessories & Replacement Parts								
Part No.	Description							
ME815P-16BRK	2" Angle & Globe Valve with Pilot - Complete Bonnet Assembly							
ME815P-16SRK	2" Angle & Valve with Pilot - Seal Replacement Kit							
ME815-10/16HRK	1-1/4", 1-1/2" & 2" Angle & Globe Valve Replacement Handle & Retaining Nut							

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Full Flow Globe and Angle Valves



bergquistinc.com



ME823-10
1-1/4" Double Flange Globe valve

ME813-16
2" Double Flange
Angle Valve



The ME813, ME818, ME819 and ME823 Series valves feature our new modular Excelsa-Flange 4 Bolt inlet/outlet design that can be easily adapted to both NTP thread or socket weld type A companion flanges (ME840 & ME841 Series) ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet/outlet connections.

- All stainless steel internal components with rotating seat disc design & V-cup Teflon® packing stem seals
- Double lead acme stem thread ensures quick and efficient operation
- Durable ductile iron valve body with zinc plating finish
- 1-1/4" & larger globe valves have 35° seat angle for maximum product flow
- 1-1/4" & larger globe valve designed ergonomically correct for bobtail transport and bulk plant applications
- Rated for 400 WOG
- Operating temperature -40° to +212° Fahrenheit
- Up to 70% **MORE FLOW** than the nearest competitor
- 1/4" FNPT or 1/2" FNPT plugged accessory ports upstream and downstream of valve seat
- Standard Nitrile seat, optional Teflon or Viton seat

ME819-16
2" Flange x NPT Globe Valve



Excelsa-Flange Bobtail Transport



MEC Excelsa-Flange Single & Double Flange Full Flow Globe and Angle Valves

Angle	Globe	Description	Side Ports	Inlet	Outlet	Mating Flange Type	Weight (lbs.)	
							Angle	Globe
ME813-10	ME823-10	1-1/4" - 4 Bolt Full Flow Double Flange Valve	1/4" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	14.8	15.3
—	ME822-16	2" - 4 Bolt Full Flow Double Flange Valve	1/2" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	—	19.7
ME813-16	ME823-16	2" - 4 Bolt Full Flow Double Flange Valve	1/4" FNPT	4 Bolt Flange Type B	4 Bolt Flange Type B	A	17.6	19.6
—	ME818-16	2" - 4 Bolt Full Flow Single Flange Valve	1/2" FNPT	4 Bolt Flange Type B	2" FNPT	A	—	17.7
—	ME819-10	1-1/4" - 4 Bolt Full Flow Single Flange Valve	1/4" FNPT	4 Bolt Flange Type B	1-1/4" FNPT	A	—	14.0
—	ME819-16	2" - 4 Bolt Full Flow Single Flange Valve	1/4" FNPT	4 Bolt Flange Type B	2" FNPT	A	—	17.7

Viton® and Teflon® are trademarks of DuPont Performance Elastomers.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

The ME873S Series valves feature our new modular Excelsa-flange 4 bolt inlet flange design that can be easily adapted to both NPT thread or socket weld type B companion flanges ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary extra connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet. Marshall Excelsior High Flow back check valves provide back flow protection to container openings or liquid lines where flow is intended for one direction. The valve is normally held closed until pressure activates the valve when flow is directed into piping or containers causing the back check to open. When flow stops or reverses, the check returns to the closed position. All MEC High Flow Back Check valves are supplied with o-ring soft seats, which can be removed for metal to metal seating. Also available with permanently bonded on main valve seals (SBN).

Excelsa-Flange Bobtail Transport



MEC Excelsa-Flange High Flow Back Check Valves					
Part No.	Description	Material	Propane Flow 10 PSIG Pressure Differential	Mating Flange Type	Weight (lbs.)
ME873S-16	Excelsa-Flange 2" MNPT x 4 Bolt Type A Flange Back Check Valve	Ductile	187	B	4.2
ME873SBN-16	Excelsa-Flange 2" MNPT x 4 Bolt Type A Flange Back Check Valve (SBN) Bonded Seat	Ductile	187	B	4.2
ME873S-24	Excelsa-Flange 3" MNPT x 4 Bolt Type A Flange Back Check Valve	Ductile	449	B	7.0
ME873SBN-24	Excelsa-Flange 3" MNPT x 4 Bolt Type A Flange Back Check Valve (SBN) Bonded Seat	Ductile	449	B	7.1

Liquid Butane Capacity = Flow Rate x .94

Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

Replacements o-rings available upon request

- Universal seat - Remove O-ring seal to create metal to metal seating surface or (SBN) bonded seat
- Up to **20% MORE FLOW** than nearest competitor
- Maximum product flow achieved by full port and stem travel design
- All models feature stainless steel stem, spring and valve guide
- Valve body: Ductile Iron / Shutoff poppet assy: steel & stainless steel
- Available in 2" NPT and 3" NPT x 4 Bolt Type A Flange
- All models can be used with LP Gas or NH₃
- Universal 4 bolt flange inlet type A

The MEP873 is intended to fit all Excelsa-Flange™ type A flange tank valves. This tool is designed to fit snugly into each of the 4 type A smooth bore flange bolt holes with individual posts. Each replaceable post features a self-retaining spring action ball detent to hold the tool firmly in place while attached to the Excelsa-Flange™ valve and has rubber cushioning pads to prevent direct contact with sealing surfaces. The MEP873 features a robust 1" square socket drive for use with even the most heavy duty impact or socket wrenches.

Part No.	Description
MEP183	4 Bolt Type A Flange Valve Installation Tool w/ 1" Square Drive
MEP183-102	Replacement Torque Posts

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

High Flow Back Check Valves



ME873S-24
SHOWN WITH O-RING
REMOVED
METAL TO METAL



ME873SBN-24
(SBN - BONDED SEAT)



ME873S-16
SHOWN WITH O-RING REMOVED
METAL TO METAL

Valve Installation Tool



MEP873

Excess Flow Valves



ME883S-16/105
2" NPT x 4 Bolt Flange
Excess Flow Valve

Marshall Excelsior offers the largest closing flow selection in the industry. These excess flow valves are intended for use in liquid or vapor LP-Gas or NH₃ systems. These valves can be used for filling, withdrawal and vapor equalization in containers or line applications, specifically long lines or branch piping. This product is designed to protect against excessive discharge as a result of a break in the hose or piping system. The excess flow feature is designed to remain closed after activation until the system pressure equalizes on both sides of the shutoff poppet.

The ME883S-16 Series valves feature our new modular Excelsa-flange 4 bolt inlet flange design that can be easily adapted to both NPT thread or socket weld type B companion flanges ranging from 1-1/4" to 2" in diameter making it universal to piping sizes within this range. This innovative system allows installers the ability to eliminate unnecessary extra connections as well as possible leak points by integrating a convenient 4 bolt flange union at the valve inlet.

WARNING: An excess flow valve will not activate if there is a break or leak downstream of the valve that does not equal or exceed the closing flow of the valve or if the excess flow valve installed exceeds the flow capacity of the system. See the Excess Flow Warning page for more information regarding the use of excess flow devices.



Excelsa-Flange

Bobtail Transport

- All models feature stainless steel stem, spring and valve guide
- Valve body: Ductile Iron / Shutoff poppet assy: zinc plated steel & stainless steel
- Available 2" NPT x 4 Bolt Type A Flange
- All models can be used with LP Gas or NH₃
- Available in a wide variety of closing flow rates - see chart below

MEC Excelsa-Flange Excess Flow Valves					
Part No.	Description	Material	Closing Flow	Mating Flange Type	Weight (lbs.)
ME883S-16/80	Excelsa-Flange 2" MNPT x 4 Bolt Type A Flange Excess Flow	Ductile	80	B	4.23
ME883S-16/105	Excelsa-Flange 2" MNPT x 4 Bolt Type A Flange Excess Flow	Ductile	105	B	4.23
ME883S-16/114	Excelsa-Flange 2" MNPT x 4 Bolt Type A Flange Excess Flow	Ductile	114	B	4.23
ME883S-16/140	Excelsa-Flange 2" MNPT x 4 Bolt Type A Flange Excess Flow	Ductile	140	B	4.23

****WARNING** - Reducing outlet pipe size below 2" nominal diameter could result in excess flow feature failing to close as designed

Liquid Butane Capacity = Flow Rate x .94

Liquid Anhydrous Ammonia Capacity = Flow Rate x .90

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

High Flow Socket Weld Bodies

These tees and elbows are available in both 2" and 3" socket weld pipe configuration and maximize flow through system piping where a 90° turn must be made. Flow rates are maximized by an optimized flow path as well as nearly seamless piping joints reducing turbulence and focusing flow through the system. Ideally suited for pump discharge lines, transport loading/unloading tee assemblies, spray fill lines or any other piping application where piping is welded and high flow rates are desired.



MEP996S-16

2" F. SOCKET WELD X 2" F. SOCKET WELD ELBOW



Excelsa-Flange Bobtail Transport

- All steel construction for maximum durability and weldability
- Available in 2" & 3" Socket Weld configurations
- Coated for maximum corrosion resistance
- Approved for use in LPG or NH₃ service
- Rated 400 WOG



MEP995S-24/16

3" F. SOCKET WELD X (2") -2" F. SOCKET WELD TEE

MEC Excelsa-Flange High Flow Socket Weld Tees		
Part No.	Description	Weight (lbs.)
MEP995S-16	Excelsa-Flange 2"x 2"x 2" Socket Weld High Flow Tee Body-Steel	6.1
MEP995S-24/16	Excelsa-Flange 3"x 2"x 2" Socket Weld High Flow Tee Body-Steel	7.8
MEP995SBW-16	Excelsa-Flange 2"x 2"x 2" Butt Weld High Flow Tee Body-Steel	
MEC Excelsa-Flange High Flow Socket Weld Elbows		
Part No.	Description	Weight (lbs.)
MEP996S-16	Excelsa-Flange 2" x 2" Socket Weld High Flow Elbow Body-Steel	3.8
MEP996S-24	Excelsa-Flange 3" x 3" Socket Weld High Flow Elbow Body-Steel	6.7

Tees and elbows also available in stainless steel

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

High-Flow Low Emission Hose End Valves



ME800

New
High Flow
Model



These hose end valves are leading the industry in minimal product loss during disconnect without sacrificing flow. They have instant full-on flow with the added protection of a quick closing, self-locking handle to prevent accidental opening of the valve during transport. They are designed to be used at the end of a filling hose on a bobtail, dispensing system or nurse tank.

Hose End Valve Features

- All stainless steel component construction
- Molded and riveted on valve main seal
- Vents less than .50cc for minimal loss of product at disconnect
- Self-locking toggle handle prevents accidental valve opening
- Toggle handle and stem assembly rotate 360°
- Durable ductile iron valve body with automotive grade powder coat finish
- Stainless steel 1-3/4" female Acme insert cast into the handle
- No additional adapters or connectors needed for operation
- Optional extended version offers 6 inches of additional reach for filling underground containers or other hard to reach applications
- Optional composite style offers a durable lightweight handle that is resistant to frosting and cold transfer during the filling operation
- Optional factory installed **EZTurn** stainless steel swivel



ME800G



ME800GWS



ME800EXTWS

Part No.	Inlet (FNPT)	Outlet (F. Acme)	Handle Style	Handle Material	Factory Installed E-Z Turn Swivel	Extended Version	Accessories
							Holster
ME800	1"	1-3/4"	Standard	Aluminum	No	No	MEP801
ME800WS	1"	1-3/4"	Standard	Aluminum	Yes	No	MEP801
ME800C	1"	1-3/4"	Standard	Composite	No	No	MEP801
ME800CWS	1"	1-3/4"	Standard	Composite	Yes	No	MEP801
ME800G	1"	1-3/4"	Fluted	Aluminum	No	No	MEP801
ME800GWS	1"	1-3/4"	Fluted	Aluminum	Yes	No	MEP801
ME800GC	1"	1-3/4"	Fluted	Composite	No	No	MEP801
ME800GCWS	1"	1-3/4"	Fluted	Composite	Yes	No	MEP801
ME800EXT	1"	1-3/4"	Standard	Aluminum	No	Yes	No
ME800EXTWS	1"	1-3/4"	Standard	Aluminum	Yes	Yes	No

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Quick Jaw Hose End Valve



ME777-4



ME779N-6



L364

- Minimum Loss Valve ~ .6cc at disconnect
 - Safety Tab prevents lifting collar when valve is open
 - The operating handle can be moved to any position without cutting seat
 - User friendly handle is large enough to operate with gloved hands
- Self latching handle with safety latch to prevent accidental opening
Only 1/8 turn to connect or disconnect
No additional adapters or connectors needed for operation

L364...3/4" FPT x 1-3/4" Acme Quick Jaw minimum loss hose end valve

Easy Operation...

- Pull up on the locking collar to open jaws.
- Place jaws on the fill valve, release collar and tighten 1/8 turn and open valve to fill.
- Close valve, loosen collar 1/8 turn to bleed, pull up on the collar to release.

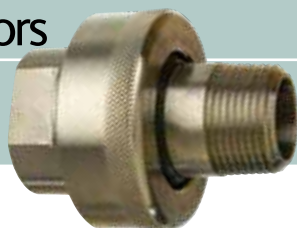
Quick Connect Hose End Valves (for Cylinders)		
Part Number	Description	Manufacturer
AL363	1" FNPT x 1 3/4" Acme Quick Jaw Minimum Loss Hose End Valve	Squibb-Taylor
L364	3/4" FNPT x 1 3/4" Acme Quick Jaw Minimum Loss Hose End Valve	Squibb-Taylor
ME777-4	Male Soft Nose POL Filler Valve, 1/2" FNPT x M.POL, Spin On Brass Handle	MEC
ME779N-4	Female QCC (Type 1) Quick Connect Filler Valve, 1/2" x F.QCC, Quick Connect Composite Handle	MEC
ME777-6	Male Soft Nose POL Filler Valve, 3/4" FNPT x M.POL, Spin On Brass Handle	MEC
ME779N-6	Female QCC (Type 1) Quick Connect Filler Valve, 3/4" x F.QCC, Quick Connect Composite Handle	MEC
363-0200	Quick Jaw Repair Kit for AL363 and L364 Filler Nozzles	Squibb-Taylor

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Squibb
Taylor



Swivel Connectors



ME850SS-8



JO1



bergquistinc.com

Part No	Description	Service	Body Style	Manufacturer
ME850SS-6	3/4" FNPT x 3/4" MNPT	LP and NH3	Straight Through	Marshall Excelsior
ME850SS-6/8	3/4" MNPT x 1" MNPT	LP and NH3	Straight Through	Marshall Excelsior
ME850SS-10/8	1 1/4" FNPT x 1" MNPT	LP and NH3	Straight Through	Marshall Excelsior
JO1	1" FNPT x 1" MNPT	LP Only	Straight Through	Full Circle
ME850SS-8	1" FNPT x 1" MNPT	LP and NH3	Straight Through	Marshall Excelsior
ME850SS-8/6	1" FNPT x 3/4" MNPT	LP and NH3	Straight Through	Marshall Excelsior
SMAC114	1 1/4" x 1 1/4" FNPT	LP Only	90° Angle	Full Circle
SMAC112	1 1/2" x 1 1/2" FNPT	LP Only	90° Angle	Full Circle
SMAC112ST	1 1/2" x 1 1/2" FNPT	LP Only	Straight Through	Full Circle

Repair kits available for all units. Call for details 1 800 537 7518



ME691-16



Weldable NPT Swivel Connector Joints			Service	Body Style	Manufacturer
Part No.	Butt/Socket Weld	FNPT Swivel			
ME691-12	1 1/2"	1 1/2"			
ME693-16/12	2"	1 1/2"			
ME691-16	2"	2"	LP and NH3	Straight Through	Marshall Excelsior

Stainless Steel Swivels for Systems Routinely Depressurized



- Stainless Steel housings resistant to environment and moisture-laden air-creep in depressurized systems.
- Corrosion-resistant seal package.
- Three-piece seal tracks movement in three directions, simultaneously.. Intermediary seal ring rotates at one-half speed.
- Seal package compensates for wear; held together by system pressure for ease of rotation.
- No wearing lip seals, o-rings, or disc-seals.
- High-load rated ball bearing, maintenance-free.
- Available in straight-through and 90° configurations.
- UL-Listed for LP-gas service.



Part No.	Description
2" Stainless Steel Swivels	
SMAC200SS	SMAC 2" x 90° hose end swivel, stainless steel, corrosion resistant.
SMAC200STSS	SMAC 2" straight hose end swivel, stainless steel, corrosion resistant.
Repair Kits	
SMAC-200SKSS	Repair kit for SMAC200 2" x 90° hose end swivel, stainless steel, corrosion resistant.
SMAC-200STSKSS	Repair kit for SMAC200 2" straight hose end swivel, stainless steel, corrosion resistant.



bergquistinc.com

Hose End Valve Adapters



Hose End Valve Adapters

Part Number	Description
ME570	1 3/4" F. Acme x 1 3/4" M. Acme - Solid - No Swivel
ME571	1 3/4" F. Acme x 1 3/4" M. Acme - Internal Swivels
ME571H	1 3/4" F. Acme x 1 3/4" M. Acme - Internal Swivels - High Capacity
ME572	1 3/4" F. Acme x 1 3/4" M. Acme - Swivels
ME574	1 3/4" F. Acme x 1 3/4" M. Acme - Swivels with Bleeder
ME574EXT	1 3/4" F. Acme x 1 3/4" M. Acme - Extended Tube with Bleeder - Swivels
ME574EXTHD	1 3/4" F. Acme x 1 3/4" M. Acme - Heavy Duty Extended Tube - Swivels
ME578	1 3/4" F. Acme x 1 3/4" M. Acme - Flow Max Manual Locking Closure - Swivels
Repair Parts	
ME578-02	Replacement Key for ME578

Hose End Valve Lock

Hose End Valve Holster



ME540



Padlock Sold Separately

ME800G
Not Included

Designed to prevent valve operation while in place, eliminating the possibility of accidental discharge and/or theft of product. Simply slide the lock over the handle/bonnet of the hose end or quick acting dispensing valve. For maximum security a common padlock can be installed.

Hose End Valve Lock Features

- All stainless steel construction
- 3/8" diameter through holes for standard 2-1/2" shackle style padlock

Part No.	Fits	Accessories	
		2-1/2" Deep Shackle Padlock	
		Keyed Alike	Keyed Different
ME540	ME800, ME810, ME820 Series	ME540P-KA	ME540P-KD

Hose End Valve Holster



MEP801H



MEP801

Designed to provide a durable and convenient receptacle to store bobtail hose end delivery valves during over-the-road transit.

This holster can be mounted fully above deck or partially below deck in left or right hand hose reel applications with an ergonomic angle providing optimum conditions for delivery personnel.

Hose End Valve Holster Features

- All aluminum and stainless steel construction
- Urethane anti-vibration valve sleeve to prevent incidental damage to delivery valve
- Machined adjustment ribs for easy, secure height adjustment
- Deck backing plate and all mounting hardware supplied

Part No.	Description	Fits	Accessories
MEP801	Bobtail Hose End Valve Holster-Aluminum	ME800 Series	MEP801H (Urethane Weather Hood)
MEP802	Bobtail Hose End Valve Holster-Aluminum w/ All Weather Hood	ME800 Series	MEP801-04 (Urethane Holster Strap)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

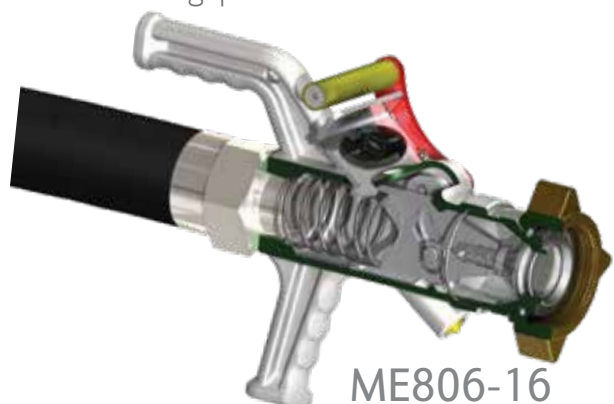


bergquistinc.com

Turbo-Flo LE Dry Break Transfer Systems

For use with LPG & LH3 Transfer Systems.

This revolutionary system provides a safe, ergonomic and efficient solution for transfer applications while increasing productivity and dramatically reducing fugitive product emissions. For use with bobtail, transport, railcar and bulk plant applications.



ME806-16



ME807-16

- Reduces product emissions 99.6% over standard valve combinations
- 100% compatible with all existing acme transfer connections
- Heavy duty spring loaded safety latch prevents accidental opening of valve
- Cam operated vapor equalization feature for smooth valve operation
- All stainless internal components
- Factory installed hydrostatic relief valve
- Specially formulated low temperature valve seals for maximum performance and life under all operating conditions
- Hardend steel bearing race with stainless steel ball bearings (ME806 Series Only)
- Integrated Back Check (IBC) feature to allow trapped liquid to be forced back upstream of the valve if liquid is trapped downstream of the valve seat (ME807 Series Only)
- Available with brass or steel acme connections (ME806 & ME807 Series)
- Both ME806 & ME807 series allow for bi-directional flow of product

ME868-16/ ME825IBC-16



Turbo-Flo LE Transfer Valves

Part No.	Description	Discharge at Disconnect	Material
ME806-16	Low Emission Transfer Valve 2" FNPT x 3-1/4" F. Acme Swivel	.09CC	Ductile/Brass
ME806S-16	Low Emission Transfer Valve 2" FNPT x 3-1/4" F. Acme Swivel	.09CC	Ductile/Steel
ME807-16	Low Emission Transfer Valve 2" FNPT x 3-1/4" M. Acme Fixed	.09CC	Ductile/Brass
ME807S-16	Low Emission Transfer Valve 2" FNPT x 3-1/4" M. Acme Fixed	.09CC	Ductile/Steel

Low Emission Acme Adapters

Part No.	Description	Discharge at Disconnect	Material
ME868-16	Low Emission Acme Adapter 2" MNPT x 3-1/4" M. Acme	3.11CC	Brass
ME868-24	Low Emission Acme Adapter 3" MNPT x 3-1/4" M. Acme	3.11CC	Brass
ME868A-16	Low Emission Acme Adapter 2" MNPT x 3-1/4" M. Acme W/ Screen	3.11CC	Brass
ME868A-24	Low Emission Acme Adapter 3" MNPT x 3-1/4" M. Acme W/ Screen	3.11CC	Brass

Replacement Parts & Accessories

Part No.	Description
ME806CRK	Replacement 3-1/4" Acme Coupling Repair Kit for ME806 Series
ME806HRK	Handle Repair Kit for ME806 & ME807 Series
ME806VRK	Complete Valve Repair Kit for ME806 Series
ME807CRK	Replacement 3-1/4" M. Acme Adapter Repair Kit (Brass) for ME807 Series
ME807SCRK	Replacement 3-1/4" M. Acme Adapter Repair Kit (Steel) for ME807 Series
ME807VRK	Complete Valve Repair Kit for ME807 Series
ME807PIB	MEC Smart Interlock Sensor Kit for ME807 Series

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Turbo-Flo LE Transfer System

(continued on next page)



ME868-16
Patent Pending

Turbo-Flo LE Acme Adapters								
Part No.	Inlet (M. Acme)	Outlet (MNPT)	Factory Installed Screen	Discharge at Disconnect	Material	Accessories		
						Mechanical Brake Interlock Retro-Fit	Electronic Proximity Interlock Kit	Back Check Test Adapter
ME866-8	1-3/4"	1"	No	.16 CC	Brass	—	—	—
ME866A-8	1-3/4"	1"	Yes	.16 CC	Brass	—	—	—
ME866-10	1-3/4"	1-1/4"	No	.16 CC	Brass	—	—	—
ME866A-10	1-3/4"	1-1/4"	Yes	.16 CC	Brass	—	—	—
ME867-10	2-1/4"	1-1/4"	No	1.96 CC	Brass	—	—	—
ME867A-10	2-1/4"	1-1/4"	Yes	1.96 CC	Brass	—	—	—
ME868-16*	3-1/4"	2"	No	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868A-16*	3-1/4"	2"	Yes	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868-24*	3-1/4"	3"	No	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105
ME868A-24*	3-1/4"	3"	Yes	3.11 CC	Brass	ME868MIB	ME868PIB	MEP105

* Not for use in conjunction with soft seat back check

To determine payback and cost savings visit www.marshallexcelsior.com

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Turbo-Flo LE Transfer System Accessories (cont.)

ME868BLK – “Bypass Line Kit” is used to create a one-way closed loop between the upstream and downstream sides of a Marshall Excelsior 2” globe valve when used in conjunction with a ME868 Series low emission Acme adapter. The kit features a brass one-way check valve and preformed heavy wall copper tubing with brazed end fittings for durability. This product is intended to prevent over pressurization of the ME868 Series low emission Acme adapters making them truly low emission. This product will also greatly reduce pressures within the ME868 Series adapters thereby decreasing any wear that may occur to the shutoff valves or the low emission Acme adapter.



ME868BLK

ME868MIB – “Mechanical Interlock Bracket” allows for a standard Parker style pneumatic air roller valve normally used in conjunction with standard bobtail brake interlock systems to be retro-fit to the ME868 Series low emission Acme adapters. This bracket system allows the standard brake interlock system and connections to be moved forward to the end of the low emission adapter where normal contact with the ME441F8 flange Acme cap can occur. The kit includes all bracketing and mounting hardware. (Kit does not include Parker style pneumatic roller valve)



ME868MIB

ME868-16 & ME441F8
not included

ME868PIB – “Proximity Interlock Bracket” uses the new MEC smart interlock technology designed to connect with the Allison automatic transmission “auxiliary function range inhibit” preventing operation of the bobtail while this connection is in use. MEC smart interlock technology incorporates a high grade Turck proximity switch that senses the presence of the stainless steel flange on the ME441F8 Acme cap when secured tightly to the ME868 Series low emission Acme adapter. This kit comes complete with all mounting hardware, MEC smart interlock technology and wiring harness to reach 5’ below the deck of the bobtail.



ME868PIB
Patent Pending

ME868-16
& ME441F8 not
included

MEP105 – This adapter allows for the periodic evacuation and testing of a bobtail’s internal back check valve during five year inspection requirements. The adapter fits snugly into the female Acme side of a ME130 which then can be threaded onto the ME868 Series low emission Acme adapter pushing the valve poppet to the open position thereby depressurizing the system for testing purposes. (Note: Be sure to consult instruction manual supplied with MEP105 test adapter before attempting use.)



MEP105

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

3 1/4" F. Acme x 2" MNPT Filler Coupling



ME135
 Acme Fill Coupling

Intended for use in conjunction with our new ME807-16 in applications where our ME806-16 Turbo-Flo LE Valve is not practical due to space or lack of fixed loading / unloading lines. The ME135 allows for normal use of on board passive shutdown hoses and traditional product "blow down" discharge lines in instances where LE hose end valves are not available or practical. Acme connection comes fully assembled with an stainless steel hose, fittings, self-closing ball valve and quick disconnect for easy installation.

Note: Quick Disconnect is 3/8" FNPT

3-1/4" F. Acme x 2" MNPT Filler Coupling

Part No.	Description	F. Acme	MNPT	LPG	NH3
ME135	Filler Coupling - Brass Nut/Steel Stem & S.S. Hose Assembly	3-1/4"	2"	Yes	No
ME135S	Filler Coupling - Steel Nut/Steel Stem & S.S. Hose Assembly	3-1/4"	2"	Yes	Yes

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

High Flow Double Back Check Valves

Marshall Excelsior High Flow Double Back Check Valves provide back flow protection to container openings or liquid lines where flow is intended in one direction. The valve is normally held closed until pressure activates the valve when flow is directed into piping or containers causing the double back check to open. When flow stops or reverses, both checks return to the closed position. All MEC High Flow Double Back Check Valves are supplied with the correct ACME cap and chain assembly, as well as factory installed hydrostatic relief protection.

ME869-10/8



ME869-24



- Primary Seat - Creates metal to metal seating surface
- Secondary Seat - bonded nitrile soft seat for a leak free seal
- Up to 20% More Flow than nearest competitor
- Maximum product flow achieved by full port and stem travel design
- All models feature stainless steel stem, spring and valve guide in body check assembly
- Built in hydrostatic relief valve
- For use with LP Gas ONLY

Part No.	Description	Propane Flow		
		Differential Pressure		
		10 PSI	25 PSI	50 PSI
ME869-10/10	Double Back Check Valve 1-1/4" MNPT x 2-1/4" M. Acme	75	116	157
ME869-10/8	Double Back Check Valve 1-1/4" MNPT x 1-3/4" M. Acme	51	85	124
ME869-16	Double Back Check Valve 2" MNPT x 3-1/4" M. Acme	195	296	416
ME869-24	Double Back Check Valve 3" MNPT x 3-1/4" M. Acme	347	519	718

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Float Gauges for Bulk Tanks and Lift Truck Cylinders



JA192

TA194A

Float Gauges for Bulk Tanks					
Tank Size Gallons	Tank Diameter	Junior Head*	Senior Head*	Screw IN 1"	Screw in 1 1/4"
420# Horz	24	MES-FG1280-001R	N/A	MES-FG3981-002R	MES-FG2281-001R
250, 330	30	MES-FG1280-002R	SA160A	MES-FG3981-003R	MES-FG2281-002R
500	37	MES-FG1280-003R	SA194A	MES-FG3981-004R	MES-FG2281-003R
1,000	41	MES-FG1280-004R	SA214A	MES-FG3981-005R	MES-FG2281-004R
420# Upright	30	6281-85	SA230E	MES-FG3981-001R	7281-85
* Junior and Senior gauges are complete with gasket and four screws					
Float Gauges for Lift Truck Cylinders					
Tank Size #	Type Service	Junior Head	3/4" NPT	1 1/4" NPT	
20, 33, 43	Horizontal	JD060A	N/A	N/A	
33	Universal	MES-FG1284-001U	MES-FG2184-001U	MES-FG2284-001U	
43	Universal	JU212A	N/A	TU212A	
20	Universal	6284-33	7384-1005	N/A	

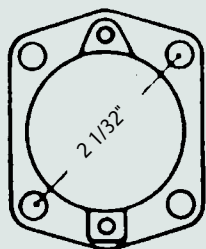
Special Order Gauges

In addition to the standard gauges, special order gauges are available. Delivery time is approximately 2 weeks on special order gauges.

NPT)

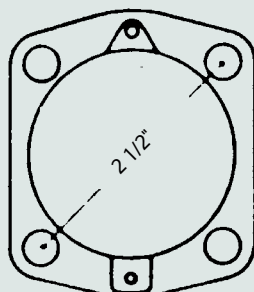
We will need to know;

- Gauge Head Type... (A) Junior 4 Bolt (about 2" diagonal - bolt to bolt)
(B) Senior 4 Bolt (about 2 1/2" diagonal - bolt to bolt)
(C) Threaded Screw-In (3/4", 1", 1 1/4"
- Tank Diameter _____ inches in diameter
- Gauge Location Top, at 45°, or at 90°
- Rise Off Tank is there a rise off the tank surface - as on an underground domed tank.

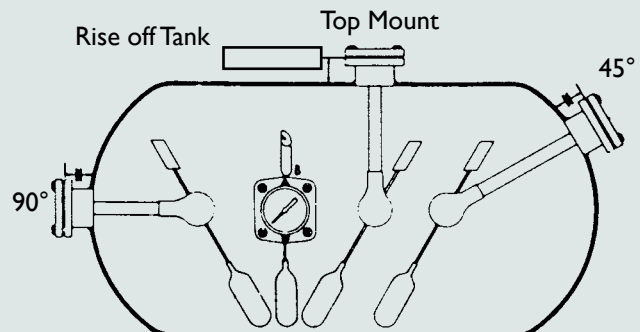


Junior Gauge
2 1/32" Bolt Circle

Gauge Head



Senior Gauge
2 1/2" Bolt Circle





bergquistinc.com

Fork Lift Dials/Sending Units/Gauge Parts

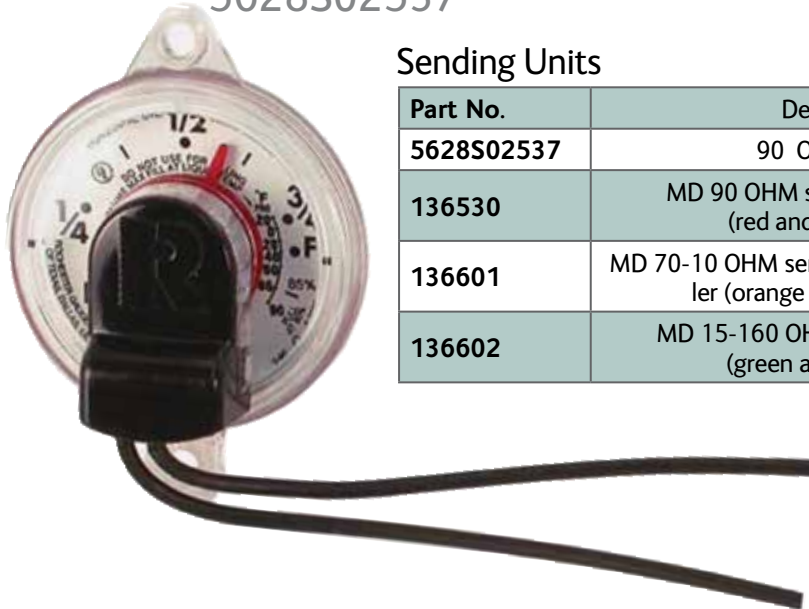
Fork Lift Dials

Part No.	Description
2733U	Round Junior Dial., Fits JU160B
5343S01791	Junior Universal 33# Dial
2710	Dial for 43# Vertical
5714S02591	Snap on Universal Dial 33#



2733U

5628S02537

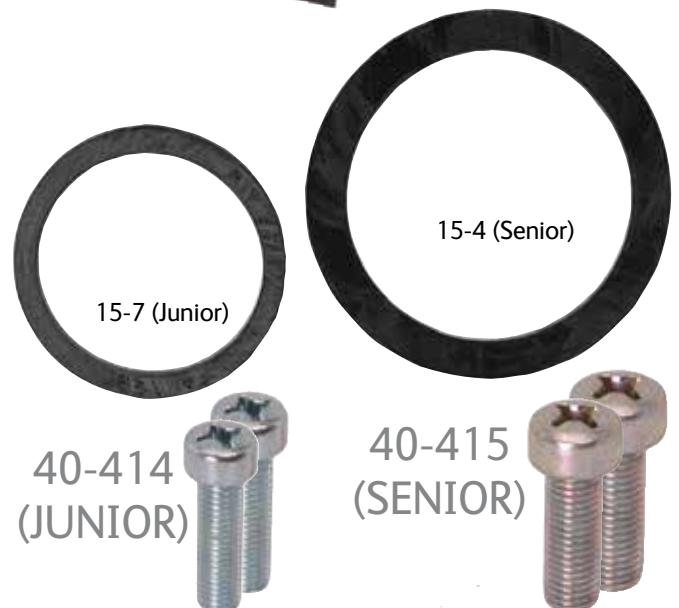


Sending Units

Part No.	Description
5628S02537	90 OHM sender
136530	MD 90 OHM sender, GM and RV's (red and brown wires)
136601	MD 70-10 OHM sender, Old Ford and Chrysler (orange and yellow wires)
136602	MD 15-160 OHM sender, New Ford (green and blue wires)

Gauge Parts

Part No.	Description
40-414	Junior Screw
MES-1284-21-3	Junior Screw
40-415	Senior Screw
40-416	Dial Screw
15-4	Senior Gauge Gasket
15-7	Junior Gauge Gasket
2-223A	Senior Gauge O-Ring
2-219A	Junior Gauge O-Ring
130101	Junior Blank Head
130104	Senior Blank Head



Domestic Gauge Parts, Replacement Dials



2701CV



MES-1284-20-002R-KIT

Replacement Dials

Part Number	Dial Size	Description
MES-1284-20-002R-KIT	Junior	Above ground
5909S02772	Junior	420# Vertical with tabs
5986S02733	Senior	Above ground
5364S01951	Snap-On	420# Vertical
2765	Round	420# Cylinder
2701CV	Round	For screw in gauges
2700CV	Round	For underground tank
2700CVX	Round	Chemitrol underground only
5323S01789	Junior	1/4, 1/2, 3/4 horizontal cylinder
136610	Junior	Horizontal mobile tanks
2089HORZ	Junior	Aboveground Horizontal ASME Tanks

Universal Dial Kits

Part Number	Dial Size	Description
130010	Senior	Squibb
130005	Junior	Squibb Kit
130010	Senior	Squibb Kit
130101	Junior	JR Blank Flange
130104	Senior	SR Blank Flange



130005



130010

Note: Glue is not included in kits.

Note: Squibb VIS2 is not available with ears & set screws.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Accu-Max Float Gauges (continued next page)



Marshall Excelsior Accu-Max Float Gauges
Application:

Measures liquid levels within horizontal DOT and Stationary ASME Tanks with fluid capacities above 2,300 gallons. Suitable for use in bobtail, transport, railcar and bulk storage applications

Features:

- All stainless steel construction for use with LPG & NH3 applications
- Welded tube to coupling design for maximum strength and durability
- Integral spring loaded shock absorber for arduous over-the-road application
- Exclusive easy to read "glow in the dark" dial face perfect for low light situations
- Dial face 100% sealed and argon filled to prevent moisture build-up & fogging
- Factory set and precision tuned for superb accuracy
- Dial face and mounting hardware universal with other industry standard gauges
- Mounts to all standard 8 bolt tank flange adapters

ME940
ASME Series



ME930
DOT Series

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Accu-Max Float Gauges (cont.)



bergquistinc.com



DOT Float Gauges		
Part No	Description	Dial Face
ME930-72	Accu-Max DOT Float Gauge Assy. Glow Dial - 72"	Glow/Black
ME930-79	Accu-Max DOT Float Gauge Assy. Glow Dial - 79"	
ME930-84	Accu-Max DOT Float Gauge Assy. Glow Dial - 84"	
ME930C-72	Accu-Max DOT Float Gauge Assy. Classic Dial - 72"	Silver/Black
ME930C-79	Accu-Max DOT Float Gauge Assy. Classic Dial - 79"	
ME930C-84	Accu-Max DOT Float Gauge Assy. Classic Dial - 84"	
ASME Stationary Float Gauges		
Part No	Description	Dial Face
ME940-108	Accu-Max Stationary Float Gauge Assy.- Glow Dial - 108"	Glow/Black
ME940-130	Accu-Max Stationary Float Gauge Assy.- Glow Dial - 130"	
ME940C-108	Accu-Max Stationary Float Gauge Assy.- Classic Dial - 108"	Silver/Black
ME940C-130	Accu-Max Stationary Float Gauge Assy. - Classic Dial - 130"	
Accessories and Replacement Parts		
Part No	Description	
ME930-905	Accu-Max DOT Replacement Dial Face - Glow Dial	
ME930C-905	Accu-Max DOT Replacement Dial Face - Classic Dial	
ME940-905	Accu-Max Stationary Replacement Dial Face - Glow Dial	
ME940C-905	Accu-Max Stationary Replacement Dial Face - Classic Dial	
ME931	2-1/2" MPT x 8 Bolt Tank Flange Mount for 8" or 10" Dial	
ME932	8 Bolt Tank Weld Flange Adapter Steel	
ME930-211	Replacement Universal Float Bulb 2" x4-1/2" - SS	
ME930-212	Replacement Spiral Wound Teflon SS Flange Gasket	
ME930-222	Replacement DOT 4" Dial Mountng Bracket - SS	
ME930-223	Replacement Universal Mounting Hex Nut 1/2-13 - SS	
ME930-224	Replacement Universal Mounting Stud Bolt 1/2-13 - SS	
ME930-239	Replacement Glass for DOT 4" Dial Face	
ME930-240	Replacement Glass Seal for DOT 4" Dial Face	
ME930-243	Replacement Universal Dial Nut #10-32 - SS	
ME930-244	Replacement Universal Dial Scrw #10-32 - SS	
ME930-903-72	Replacement Float Tube & Bulb Assy - 72"	
ME930-903-79	Replacement Float Tube & Bulb Assy - 79"	
ME930-903-84	Replacement Float Tube & Bulb Assy - 84"	
ME940-206	Replacement Stationary 8" Dial Mounting Bracket - SS	
ME940-210	Replacement Glass for Stationay 8" Dial Face	
ME940-211	Replacement Glass Seal for Stationary 8" Dial Face	
ME940-903-108	Replacement Float Tube & Bulb Assy - 108"	
ME940-903-130	Replacement Float Tube & Bulb Assy - 130"	



bergquistinc.com

Accu-Max Float Gauges, Trans-Max Series

Measure liquid levels within horizontal DOT and Stationary ASME Tanks with 1" FNPT tank gauge port openings. Designed to replace rotary style gauges in tanks with fluid capacities greater than 2,300 gallons. Suitable for use in bobtail, transport, and bulk storage applications. MEC exclusive "wedge" design allows for easy installation while greatly reducing time spent inside the vessel.

ME930WG DOT Series
ME940WG ASME Series

Note: The heavy duty design of this gauge requires entering vessel through man-way during installation.

Trans-Max Float Gauge Features

- All stainless steel construction for use with LPG & NH₃ applications
- Welded tube to coupling design for maximum strength and durability
- Installation requires man-way
- Converts rotary style gauge to heavy duty Accu-Max style for both mobile & stationary applications
- Integral spring loaded shock absorber for arduous over-the-road application
- Easy to assemble
- Exclusive easy to read "glow in the dark" dial face perfect for low light situations
- Dial face 100% sealed and argon filled to prevent moisture build-up & fogging
- Factory set and precision tuned for superb accuracy
- Dial face and mounting hardware universal with other industry standard gauges
- Mounts to all standard 1" NPT tank coupling adapters
- Custom lengths available upon request
- Available with classic style dial face



Trans-Max Accu-Max DOT Float Gauges			
Part No.	Description	Dial Face	Tank Diameter
ME930WG-72	Trans-Max Accu-Max DOT Float Gauge Assembly	Glow/Black	72"
ME930WG-79	Trans-Max Accu-Max DOT Float Gauge Assembly	Glow/Black	79"
ME930WG-84	Trans-Max Accu-Max DOT Float Gauge Assembly	Glow/Black	84"
ME930CWG-72	Trans-Max Accu-Max DOT Float Gauge Assembly (Classic)	Silver/Black	72"
ME930CWG-79	Trans-Max Accu-Max DOT Float Gauge Assembly (Classic)	Silver/Black	79"
ME930CWG-84	Trans-Max Accu-Max DOT Float Gauge Assembly (Classic)	Silver/Black	84"

Trans-Max Accu-Max ASME Stationary Float Gauges			
Part No.	Description	Dial Face	Tank Diameter
ME940WG-108	Trans-Max Accu-Max Stationary Float Gauge Assembly	Glow/Black	108"
ME940WG-130	Trans-Max Accu-Max Stationary Float Gauge Assembly	Glow/Black	130"
ME940CWG-108	Trans-Max Accu-Max Stationary Float Gauge Assembly (Classic)	Silver/Black	108"
ME940CWG-130	Trans-Max Accu-Max Stationary Float Gauge Assembly (Classic)	Silver/Black	130"

Liquid Level Gauges



Unloading Adapters

Part Number	Description
ME450	1 3/4 F Acme x 3/4 FNPT, 90° Use with 623B or 1855SD Fill Valves only Mfg after 1995

Note: Valve will open double back check filler valves for adding methanol, also used on older style multi-valve tanks for liquid withdrawal through the filler valve. The handwheel design opens the valve slowly for safety.

MEJ401SC

	Marshall Excelsior Part Number	Inlet	Dip Tube	Stop Fill Dial	Comment
	MEJ400	1/4" MNPT	No	No	Brass
	MEJ402S	1/4" MNPT	No	No	Stainless Steel, MEJ402S has tee handle
	MEJ410-054	1/4" MNPT	Yes	No	Brass, Dip Tube 5.4"
	MEJ410-066	1/4" MNPT	Yes	No	Brass, Dip Tube 6.6"
	MEJ410-120	1/4" MNPT	Yes	No	Brass, Dip Tube 12.0"
	MEJ415	3/4" MNPT	No	No	Stainless Steel, Two 1/4" Outlet
	MEJ415G	3/4" MNPT	No	No	MEJ415 w/ MEJ402S and 0-400 psig Stainless Steel Gauge Installed
	MEJ400/72¹	1/4" MNPT	Yes	No	Low Emission Brass Vent Valve #72 Orifice
	MEJ401SC²	1/4" MNPT	Yes	No	Replacement Self Cleaning Bleeder Screw and Seat
	MEJ410/72-5.4¹	1/4" MNPT	Yes	No	Low Emission Brass Vent Valve with 5.4" dip tube
	MEJ410/72-5.7¹	1/4" MNPT	Yes	No	Low Emission Brass Vent Valve with 5.7" dip tube
	MEJ410/72-6.6¹	1/4" MNPT	Yes	No	Low Emission Brass Vent Valve with 6.6" dip tube
	MEJ410/72-6.9¹	1/4" MNPT	Yes	No	Low Emission Brass Vent Valve with 6.9" dip tube
	MEJ410/72-120¹	1/4" MNPT	Yes	No	Low Emission Brass Vent Valve with 12.0" dip tube

Notes: (1) The Marshall Excelsior low emission vent valve provides minimal loss of product while allowing the operator to bleed down connections and detect liquid levels during filling operations.
 (2) MEJ401SC includes a captured #54 orifice drill reamer to ream the valve's orifice hole each time the adjusting screw is loosened eliminating nuisance orifice clogging. Compatible with all exiting vent valve bodies for easy field change out.
 Parts: MEJ401 Standard bleeder stem & seat only (the part that turns)
 2550-40P "Stop Filling When Liquid Appears" dial only

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Pressure Gauges

Pressure Gauges

Part Number	Pressure Range	Connection Type	Liquid Filled	Connection Size	Comment
KA50ECO-2	0-30" WC	Bottom	No	1/4" MNPT	Non-Adjustable
ME60-2	0-35" WC	Bottom	No	1/4" MNPT	Adjustable
KA510	0-15 PSIG	Back	No	1/4" MNPT	Non-Adjustable
KA500	0-15 PSIG	Bottom	No	1/4" MNPT	
KA603LP-01	0-15 PSIG	Bottom	Yes	1/4" MNPT	
KA603LP-02	0-30 PSI	2" Bottom	Yes	1/4" MNPT	
KA511	0-30 PSIG	Back	No	1/4" MNPT	
KA511-18	0-30 PSIG	Back	No	1/8" MNPT	
KA501	0-30 PSIG	Bottom	No	1/4" MNPT	
KA501-18	0-30 PSIG	Bottom	No	1/8" MNPT	
KA512	0-60 PSIG	Back	No	1/4" MNPT	
KA502	0-60 PSIG	Bottom	No	1/4" MNPT	
KA513	0-100 PSIG	Back	No	1/4" MNPT	
KA503	0-100 PSIG	Bottom	No	1/4" MNPT	
KA504	0-160 PSIG	Bottom	No	1/4" MNPT	
KA505	0-200 PSIG	Bottom	No	1/4" MNPT	
KA516	0-300 PSIG	Back	No	1/4" MNPT	
KA506	0-300 PSIG	Bottom	No	1/4" MNPT	
MEJ520	0-5 PSIG	Bottom	No	1/4" MNPT	4 1/2" Dial for Storage Tank
MEJ580	0-300 PSIG	Bottom	No	1/4" MNPT	
MEJ524	0-400 PSIG	Back	Yes	1/4" MNPT	
MEJ526	0-400 PSIG	Back	Yes	1/4" MNPT	
MEJ542	0-400 PSIG	Bottom	Yes	1/4" MNPT	
MEJ552	0-400 PSIG	Bottom	Yes	1/4" MNPT	All Stainless Steel
KA603HP-01	0-300 PSIG	Bottom	Yes	1/4" MNPT	
					Brass Inlet



- Notes:
- 1... Liquid filled gauges absorb shock from pumps and compressors better.
 - 2... KA501-18 & KA511-18 with 1/8" pipe thread can be used directly with regulators for testing or permanent installation.
 - 3... Use adaptor B120CA to convert any 1/4" connect gauge to 1/8" connect for pressure testing.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Gaslog Remote Cellular Tank Monitoring

Continued next page



SC415C514WSENDER

REMOTE CELLULAR TANK MONITORING
GASLOG remote cellular tank monitoring gives you control of:
Unpredictable customers
Remote locations
Bulk storage tanks
By improving delivery efficiency and driver workload, reducing or eliminating run outs and customer turnover, improve company cash flow.

Installed by drivers in under 5 minutes -
Tank level available same day.
No home access required
Maintenance free design
UL certified (Class 1, Div. 1)



GASLOG features and benefits

Feature	Benefit
UL approved (Class 1, Div. 1)	Safe in any hazardous location
Cellular communications	No home access required
Waterproof housing/connectors	Very robust and reliable
Two universal inputs	Can monitor two tanks
Built-in temperature sensor	Records level and temperature
Operates from -40°F to +120°F	Designed for hostile environments
15 year average battery life	Minimum maintenance
Clip-on sender adapters	Works on majority of float gauges
Remote configuration	Adjust alarm set points
End-to-end connectivity	Secure, reliable data



bergquistinc.com

Gaslog Remote Cellular Tank Monitoring (cont.)



GASLOG cellular remote tank monitoring	
Dialers	
SC415C514WSENDER	LTE Cat1-M1 cellular dialer with GPS
SC415C514RF2	Sensor for refined fuels with 2 meter cable
SC415C514RF5	Sensor for refined fuels with 5 meter cable
Sender and cables	
SC645E1	CDMA sender and junior adaptor
JUNIOR ADAPTOR	Junior adaptor for SC645E1 sender
SENIOR ADAPTOR	Senior adaptor for SC645E1 sender
SNAP ON ADAPTOR	Snap on dial adaptor for SC645E1 sender
SCREW DOWN ADAPTOR	Screw down dial adaptor for SC645E1 sender
ZAB TYPE ZC	6' extension cable with ZAB type ZC connectors
SC670B11	Unterminated ZAB Cable for wiring to storage tank dial
Tools and accessories	
SC663	Magnetic activation and removal tools for SC415 dialers
SC BATTERY	AA lithium battery for SC414 dialers
SC460A252A21	PGT Gauge, 0-36 psi
SC460A253A21	PGT Gauge, 0-362 psi

TankCheck Sensor	
Part Number	Description
024-1000	Dual sensor with monitor, no smartphone needed
024-1001	Single sensor for use with smartphone
024-1002	Dual sensor for use with smartphone
024-1003	15 pack retail assortment with display carton
024-1004	Monitor only, use with 024 series sensor
024-2001	XL single sensor for use with smartphone



SC415C514RF2



SC460A252A21

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Schneider Tank Monitoring System



bergquistinc.com



Schneider's advanced tank monitoring system gives you the ability to prioritize deliveries, optimize truck loading and reduce emergency fills and fleet size. Using state-of-the-art technology, the system gives you the level of info you need, when you need it. The sensor technologies have years of proven reliability in the field and the long battery life eliminates worry of frequent replacements. The monitor, controller and data center combine to help you manage your tanks better than ever before.

Part Number	Description
Monitors	
DG0000Y	Cellular LP monitor - no wire harness, no dial, Class 1 Div 2 Group D
DG0001Y	Cellular LP monitor - w/ 5' wire harness, no dial, Class 1 Div 2 Group D
GR05R-VL	Residential cellular LP monitor - w/ 5' wire harness, remote ready, Class 1 Div 2 Group D
Renewable Call Blocks	
500 CALL BLOCK	Block of 500 Calls
1000 CALL BLOCK	Block of 1,000 Calls
5000 CALL BLOCK	Block of 5,000 Calls
Remote Ready Tank Gauge Dials	
130022	Taylor A style replaces 2701CV top mount remote ready (pinholes: large at 95% and small at 35%)
130023	Taylor B style replaces 2701CV top mount remote ready (pinholes: small at 65% and large at 5%)
5909S02733	Rochester Junior above ground tank gauge, remote ready
5986S02733	Rochester Senior above ground tank gauge, remote ready
5909S02772	Rochester Junior 420 DOT / TABS tank gauge, remote ready
5AAAS02772	Rochester Junior 420 DOT / SNAP ON tank gauge, remote ready
GSLRH10I00	Rochester 8" bulk gauge w/ 10' wire, remote ready (w/ 8 bolts, top bolt at 12 noon)
GSLTH10I00	JY Taylor 8" bulk gauge w/ 10' wire, remote ready (w/ 7 bolts)
GSLMH10I000	Rochester Magnetel 4" dial, remote ready
GSLSH10I00	Rochester Senior 4" dial, remote ready
Harness Cables	
GSHB10A	10' wire harness w/ sensor for large 4" and 8" dial gauges
GSU05	5' propane harness cable
GSU10	10' propane harness cable
SIC86640	Serial cable connects controller to PC - for non call block applications



bergquistinc.com

Parker LP Gas Hose...7132 Series

Heavy duty, flexible, for liquid or vapor transfer,
350 psig working pressure, black neoprene cover, continuous labeling,
UL Listed

Hose is available in cut lengths
(by the foot), or in reel lengths.

Order by inside diameter.

High Pressure Propane Hose



HP04 REEL

Propane Hose

Part Number	Hose I.D.	Hose O.D.	# of Braids	Ft/Reel *
HP04	1/4"	.58"	2	350'/700'
HP06	3/8"	.75"	2	600'
HP08	1/2"	.94"	2	500'
HP12	3/4"	1.25"	2	350'
HP16	1"	1.50"	2	250'
HP20	1 1/4"	1.87"	2	150'
HP24	1 1/2"	2.18"	3	150'
HP32	2"	2.75"	3	100'

**Estimated - some reels may be different lengths.*

Note: Rubber hose is pin pricked the length of the hose to allow for natural permeation of LP Gas through the cover. This may appear as bubbles when the hose is wet or sitting in water.

Crimped-on ends are available on any length of hose.

Testing & Certification available...
We will pressure test (nitrogen tested at 420 psi, unless specified otherwise) and send a 'certification sheet' with the hose.

Parker Crimped-on Hose Ends

Part Number	Hose Size	Hose End
4NP	1/4" I.D.	1/4" MNPT
HY04-04FA	1/4" I.D.	1/4" Female Flare
6NP	3/8" I.D.	3/8" MNPT
HY06-06FA	3/8" I.D.	3/8" Female Flare
8NP	1/2" I.D.	1/2" MPT
HY08-08FA	1/2" I.D.	1/2" Female Flare
12NP	3/4" I.D.	3/4" MNPT
16NP	1" I.D.	1" MNPT
20NP	1 1/4" I.D.	1 1/4" MNPT
24NP	1 1/2" I.D.	1 1/2" MNPT
32NP	2" I.D.	2" MNPT

Rubber Flex Connectors

Hose Size	Coupling Length	Minimum Overall Length
1/2" ID	2 7/8"	9"
3/4" ID	3"	9"
1" ID	3 1/2"	10"
1 1/4" ID	4"	12"
1 1/2" ID	4"	12"
2" ID	5 1/2"	12"



Parker Rubber Flex Connectors

Custom made and certified rubber flex connectors.
Maximum length available is 36" - see table for minimum lengths.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Bobtail Hose/Clamp Style Reusable Hose Couplings



bergquistinc.com



HPI6X100CR

One Inch Bobtail Hose
with Crimped On Ends

Type	Part Number	Length
GAS-FLO	HP16X125FV	125'
GAS-FLO	HP16X150FV	150'
PARKER	HP16X100CR	100'
	HP16X125CR	125'
	HP16X150CR	150'
PARKER LOW TEMP	HP16X125PARKER	125'
	HP16X150PARKER	150'
POLAR FLEX LOW TEMP	HP16X125CRLT	125'
	HP16X150CRLT	150'

Note: 125' bobtail hose is the most commonly used.

Reusable Hose Couplings
Clamp Style

ME3162-32



Reusable clamp style couplings -
suitable for propane and anhydrous
service.

ME3162-32S



Clamp Style Reusable Hose Couplings

Marshall Excelsior Part Number	Hose ID	Outlet
ME3162-08	1/2"	1/2" MNPT
ME3162-12	3/4"	3/4" MNPT
ME3162-16	1"	1" MNPT
ME3162-20	1 1/4"	1 1/4" MNPT
ME3162-24	1 1/2"	1 1/2" MNPT
ME3162-32	2"	2" MNPT
ME3162-12S	3/4"	1 3/4" F. Acme Swivel
ME3162-32S	2"	3 1/4" F. Acme Swivel
ME3162-32B*	2"	3 1/4" F. Acme Swivel

*Note: Two piece screw together couplings
are not available.*

**Brass nut not suitable for Anhydrous.*



bergquistinc.com

Pig's Tail, Motor Fuel Hose, Steel Fittings

Protect your transfer hoses from abrasion with 'Pig's Tail' protective wrapping.

Easy to install - Lightweight - UV Resistant - Beveled Edges - Temperature Operating Range...-40°F to 140°F.

Pig's Tail

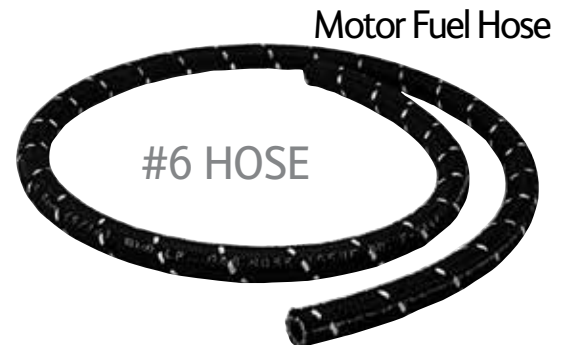
Part Number	Description
R50SSG	Fits 1 1/4" I.D. Hose
R75SSG	Fits 2" I.D. Hose



Parker stainless steel braid with cloth cover for motor fuel (liquid service). Synthetic rubber high temperature tube, one stainless steel wire braid and two textile braids.

Motor Fuel Hose

Part Number	I.D.	O.D.
#4	3/16"	.52
#6	5/16"	.67
#8	13/32"	.77
#10	1/2"	.92



Steel Fittings for Wire Braid Hose

Part Number	Hose #	Female Flare End	Male Pipe Thread End
4412-4-4	#4	--	1/4" MNPT
4412-4-6	#6	--	1/4" MNPT
4412-6-6	#6	--	3/8" MNPT
4412-8-10	#10	--	1/2" MNPT
4401-4	#4	1/4" F.F.	--
4401-6	#6	3/8" F.F.	--
4401-8	#8	1/2" F.F.	--
4401-8-10	#10	1/2" F.F.	--
4401-10	#10	5/8" F.F.	--
190299-6	#6	3/8" F.F. - 45°	--
190302-6	#6	3/8" F.F. - 90°	--
4411-6	#6	3/8" Male Flare	--



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Low Pressure Hose



bergquistinc.com



469-06

Standard package is 500'.
100' lengths can be ordered.

Accuflex Thermoplastic Hose

Part Number	ID	OD	Standard Roll Size
469-04	1/4"	.5"	500'
469-05	5/16"	.56"	500'
469-06	3/8"	.65"	500'



LP06

Low pressure 'Red' Dayco Hose

Part Number	Size	Pressure Rating	Ferrule Required
LP06	3/8" I.D.	125 psig	7329



VH100

Carburetion Hose ("Skunk Hose")

Part Number	Description
VH100	1" Vapor Carb Hose

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Hose Ferrules, Crimping Tool, Hose Cutter

Brass Hose Ferrules

Part Number	I.D.	Commonly used for
7323	.525"	1/4" Accuflex
7324	.531"	1/4" Accuflex
7325	.562"	1/4" Accuflex
7326	.593"	1/4" Rubber & 5/16" Accuflex
7327	.625"	1/4" Rubber
7328	.656"	3/8" Accuflex
7329	.687"	3/8" Accuflex & Red Low Pressure Hose
7330	.718"	3/8" Accuflex
7331	.750"	3/8" Rubber (Single Braid)
7332	.781"	3/8" Rubber (Double Braid)

Note: LP hose is sold by inside diameter - sometimes the outside diameter may vary from hose to hose.

7327



Brass Hose Ferrules

Crimping Tool

The **CR100** crimps ferrules on 3/16", 1/4", 5/16" and 3/8" I.D. Hose

Repair parts...

856-8 - adjustment screw with .75 die



CR100

Wheeler-Rex Hose Cutter

Part Number	Description
Snipper	Snipper Hose/Plastic Cover
5200	Replacement Blade

Note: Blade can be reversed

Wheeler-Rex Hose Cutter

SNIPPER



The SNIPPER cuts hose and plastic tubing.



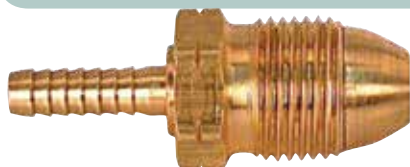
5200

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Hose Barb Fittings



bergquistinc.com



HC5930



ME518-25H



HC5133

Tank Connection by Hose Barb Connector

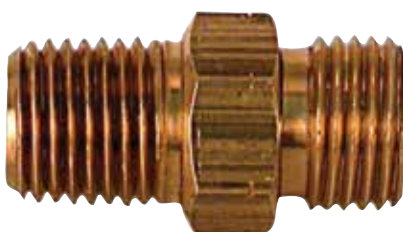
Part Number	Hose I.D.	Description
G1683	1/4"	MPOL x 1/4 hose barb 7/8" hex
G1656	1/4"	Soft nose MPOL X 1/4" hose barb full flow w/ handwheel
G1655	1/4"	Excess flow soft nose MPOL x 1/4" hose barb with plastic handwheel
ME517	1/4"	QCC1 adapter w/ 1/4" MPT black nut - 70,000 BTU max
ME518	1/4"	QCC1 adapter with 1/4 inch MPT green nut - 200,000 BTU max
ME518-25H	1/4"	QCC1 adapter w/ 1/4 " hose barb green nut - 200,000 BTU max
ME517-EV	n/a	QCC1 purge adapter for cylinder 1 5/16 acme
HC5930	1/4"	MPOL X 1/4" hose barb 7/8 hex full flow



#37



41B



#33



#8 & #17

158

Miscellaneous Hose Barb Fittings

Part Number	Hose I.D.	Description
HC5133	1/4"	1/4" Male Inverted Flare (Pigtail)
#37	1/4"	Hose Splicer
#149	3/8"	Hose Splicer

9/16 Left Hand Connectors

Part Number	Hose I. D.	Description
#8 Nut	---	9/16" Left Hand Nut
#17	1/4"	Stem for #8 Nut
#20	3/8"	Stem for #8 Nut
#41B	1/4"	Male 9/16" Left Hand
#31	---	9/16" Male LH x 9/16" Male LH
#33	---	1/4" MNPT x 9/16" MLH
#143	---	3/8" MNPT x 9/16" MLH
A193	---	9/16" Female Swivel x 1/4" MNPT
A243	---	9/16" Male LH x 1/4" Female Pipe

Note: 9/16 left hand fittings are commonly used on torches and construction heaters - look for the indents on the nut - that indicates a left hand fitting

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



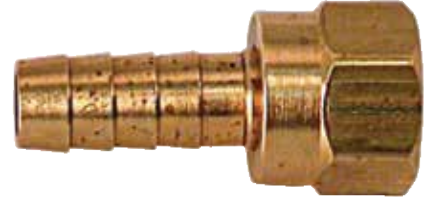
bergquistinc.com

Hose Barb Fittings

Female Flare Swivel by Hose Barb Connector

Part Number	Hose I.D.	Female Flare Swivel
HC5333	1/4"	1/4"
HC4335	1/4"	3/8"
HC4334	1/4"	Barb only for NS4E Flare Nut
126HBLFSV-5-6	5/16"	3/8"
HC4355	3/8"	3/8"
HC4357	3/8"	1/2"

Note: Part number includes both pieces, except HC4334 - barb only



HC4355



HC4855

Male Flare by Hose Barb

Part Number	Hose I.D.	Flare Size O.D.
HC4835	1/4"	3/8"
HC4855	3/8"	3/8"
HC4857	3/8"	1/2"

Female NPT by Hose Barb Connector

Part Number	Hose I.D.	Female Pipe Size
#552	1/4"	1/8" FNPT
#555	1/4"	1/4" FNPT
#558	1/4"	3/8" FNPT
126HBL-5-4	5/16"	1/4" FNPT
126HBL-5-6	5/16"	3/8" FNPT
#557	3/8"	1/4" FNPT
#560	3/8"	3/8" FNPT

Note: Female connectors are one piece...they do not swivel.



#560

Male NPT by Hose Barb Connector

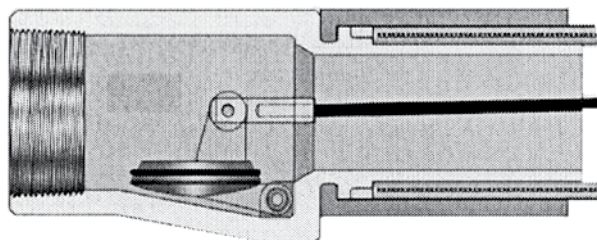
Part Number	Hose I.D.	Male Pipe Size
A339	1/8"	1/8" MNPT
#545	1/4"	1/8" MNPT
#541	1/4"	1/4" MNPT
#537	1/4"	3/8" MNPT
125HBL-5-4	5/16"	1/4" MNPT
#538	5/16"	3/8" MNPT
#543	3/8"	1/4" MNPT
#539	3/8"	3/8" MNPT

Note: 1/8" MNPT is the test port size on Kosan+ regulators.
Use A339 or #545 to connect to your manometer.



#539

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



The Smart-Hose safety system is combined with a heavy duty LPG transfer hose designed to meet the most rugged applications found in the LPG industry. All hose meets UL 21. To achieve lower operating cost, return used Smart-Hose couplings for attachment to new hose.

1. Each hose is tested under water with dry air or nitrogen to Test Pressure.
2. Each hose is serial numbered.
3. Each hose comes with Test Certification & Operating Booklet.
4. 316 Stainless steel couplings are designed for reuse on new hose.
5. Each hose meets DOT HM225 - 46CFR173.315
6. Each hose meets NFPA 58 & 59
7. Each hose meets DOT HM212 - (Special rail car unloading exemption eliminates requirement for human monitoring during unloading procedure) DOT-SP 1232S

Hose Data:

Cover - Black CR w/Blue Longitudinal Stripe - abrasion and weather resistant

Reinforcement - Multiple layers of Polyester - min. burst 1750 PSI

Tube - oil resistant - resistant to permeation of Butane/Propane

Branding - LPG Hose MH12585 350 MAX WP, Quarterly/Year. Made in USA

TEMPERATURE - -40°F to 180°F

Part Number	Description
LL3B-18S	2" FPT x OAL Smart Hose w/breakaway Swivel and Scuff Guard
FH2	2" x 15' OAL Smart Hose System Lifeline 3 Facility Hose FPT x FPT
SH2F	2" FPT x 18' OAL Smart Hose Lifeline 3 for LP
SH2FA	2" FPT x 18' OAL Smart Hose Lifeline 3 for NH3
LL3B-15	2" FPT x 15' OAL Smart Hose w/ breakaway Swivel, Facility Use
LL3B-15A	2" FPT x 15' OAL Smart Hose w/ breakaway Swivel, for NH3 Facility Use
LL3B-18	2" FPT x 18.5' OAL Smart Hose w/ breakaway Swivel, DOT Certified
LL3B-18A	2" FPT x 18.5' OAL Smart Hose w/ breakaway Swivel, for NH3, DOT Certified



bergquistinc.com

Steel Pipe Adapters

Swivel Pipe to Elbow (MxF)

Part Number	Description
2047-8-8	1/2", M x F, 90° Elbow, Swivel
2047-12-12	3/4", M x F, 90° Elbow, Swivel



2047-8-8

Swivel Female Pipe Adapter (Straight)

Part Number	Female Size, Both Sides
2046-4-4	1/4"
2046-6-6	3/8"
2046-8-8	1/2"
2046-12-12	3/4"
2046-16-16	1"
2046-20-20	1 1/4"
2046-24-24	1 1/2"
2046-32-32	2"



2046-16-16

Swivel Female Pipe Adapter (Elbow)

Part Number	Female Size, Both Sides
2048-8-8	1/2"
2048-12-12	3/4"
2048-24-24	1 1/2"
2048-32-32	2"



2048-12-12

Steel Street Tee

Part Number	Description
2092-4-4	1/4" NPT, 3 Way

Note: One application - use to install a hydrostat and a bleeder in same 1/4" NPT opening.



2092-4-4

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Needle Valves, Brass Fittings



ME831



YV-51



#211

Needle Valves

Part Number	Inlet	Outlet
ME831SS	1/4" MNPT	1/4" FNPT, Stainless Steel
#206	1/4" MNPT	9/16" MLH
#208	9/16" MLH	1/4" MNPT
#208F	9/16" MLH	1/4" FNPT
#211	1/4" MNPT	1/4" MNPT
ME831	1/4" MNPT	1/4" FNPT
YV-51	9/16" L Female	2 - 9/16" Male (Y)
V3055P	1/4" FNPT	1/4" MNPT Red Dragon Torch Valve
PC4021	Cap and Chain 9/16" LH	

Brass Elbows

Part Number	Description
B100C	1/4" 90°
B116A	1/8" 90° Street Elbow
F116C	1/4" 90° Street Elbow
B124C	1/4" 45° Street Elbow

Brass Hex Bushing

Part Number	Description
B110CA	1/4" x 1/8"
B110EA	3/8" x 1/8"
B110EC	3/8" x 1/4"
B110FA	1/2" x 1/8"
B110FC	1/2" x 1/4"
B110FE	1/2" x 3/8"
B110KF	3/4" x 1/2"

Brass Nipples

Part Number	Description
B122AA	1/8 X 1/8 hex nipple
B122CC	1/4 X 1/4 hex nipple
B122EC	3/8 X 1/4 hex nipple
B122EE	3/8 X 3/8 hex nipple
B122FE	1/2 X 3/8 hex nipple
B122FF	1/2 X 1/2 hex nipple

Brass Couplings

Part Number	Description
B103A	1/8"
B103C	1/4"
B103E	3/8"
B119CA	1/4" x 1/8" Reducing Coupling



B100C



B110FE



B122EE



B103E



bergquistinc.com

CGS 555 Adapters



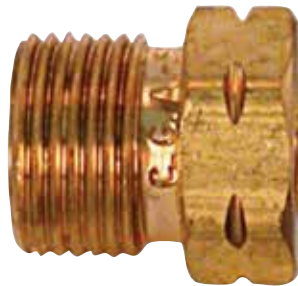
ME308

Left Hand, Hopane, CGA 555

Part Number	Description
ME308	Filling Adapter, FPOL x F Hopane Swivel
ME306	Female Hopane x 1/4" MNPT
M307	Female Hopane x 9/16" Male
A653	Male Hopane x 1/2" MNPT
414-1	Male Hopane x 1/4" FNPT
PC555	Hopane Cap and Chain
#72	Hopane Nut only
#73	Nipple only for M306
#62	Uncommon, Right Hand Nut, CGA 540



PC555



414-1



A653

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Corken Coro-Flo Pumps for Dispensing Units

Continued on next page



The world's most popular propane gas pump, the Corken Coro-flo, achieved its wide acceptance because it is long-lived, dependable, quiet, impossible to over-work, easy to repair and simple to maintain.



Coro-Flo 'C' Model

Model No.	C-Models			On-Off Switch	FNPT Inlet	FNPT Outlet	Gal./Min. at 50lbs. Differential
	HP	PH	Volts				
C-10	2	1	115/230	Yes	1 1/4"	1"	6.5
C-12	2				15		
C-13	2				22		
C-14	3	3	230/460	No			32

Note: Always use a B166 bypass valve with C & F model pumps... usually a B166-3/4" with C/F10, C/F12 and a B166-1" with C/F13 and C/F14

C Model features.....

- Only one moving part!
- Smooth, pulseless flow
- No rubbing parts
- Floating impeller
- Ductile iron case
- Hydraulically balanced mechanical seal
- Replaceable shaft sleeve under mechanical seal
- No coupling necessary
- No bearing in pump!
- Adjusted for wear
- Compact construction
- Motor overload in switch
- Automatic drain on motor
- Heavy duty motor

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Corken Coro-Flo Pumps for Dispensing Units (cont.)

The Coro-Vane® pump was designed for higher flow and head conditions, pumping thin liquids and liquefied gases.



Coro-Flo 'F' Model

Model No.	FNPT Inlet	FNPT Outlet	Gal./Min. at 50lbs. Differential
F-10 *	1 1/4"	1"	6.5
F-12 *	1 1/2"		15
F-13 *			32

* To order with a baseplate use -101. Example F12-101

F models pumps are similar to C models but without a motor. Typically, these pumps are mounted on a baseplate and close coupled to a motor of your choice.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Corken Coro-Flo and Blackmer Pump Repair Parts



Corken Coro-Flo Pump Repair Parts - C & F Models

Pump	Seal Kit	Brass Impeller	C Model Motors	Motor HP
C10/F10	113CXA	1003-0	2556	1
C12/F12	113CXA	1003-2	2556	1
C13/F13	113CXA	1003-3	4261	2
C14/F14	113CXA	1003-4	2557 ¹	3

Notes:

- 1) C model motors are single phase, except for the C14-2557-3HP
- 2) You must order the Corken motor for replacement on C pumps.
The motor shaft is drilled where the seal pin is placed.

BLACKMER PUMP REPAIR KITS - REPAIR PARTS

Blackmer Pump Repair Kits

Pump Model	New Maintenance Kit	New Rebulid Kit
LGF1, LGF1P	898994	--
LGL- 1 1/4	898976	899077
LGRLF- 1 1/4	898976	899076
LGL- 1 1/2	898976	899078
LGLD2E	898979	899079
LGLD3E	898981	899081
TLGLF3	898980	899080
LGLD4A/TIGLF4A	898922	899022

Notes:

Blackmer **Maintenance Kits** include; discs, vanes, push rods, o-rings, gaskets, seals, and bearings.

Blackmer **Rebuild Kits** include; all maintenance kit parts, plus liner, liner key, bearing locknut, rotor & shaft.

Common Repair Parts for Blackmer Pumps

Parts	LGF 1	LGF 1 1/4	LGLD2E	LGLD3E	TLFLF3	TLGLF4A
Seals	332920	333045	334439	335225	331652	332050
Vanes	092913	093088	091419	095131	095132	092019
Push Rods	--	123076	123905	125105	121607	122005
Bearings	903405	903114	903156	903166	903156	903172
Liner	--	183004	184405	185111	185101	182000
Disc	--	063075	064412	065112	065121	062039
Rotor and Shaft	262901	4-263076 8-262300	264443	265149	265147	262041

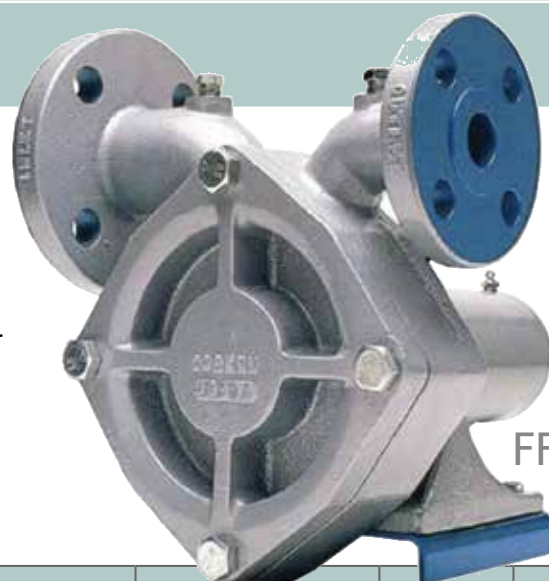


bergquistinc.com

CORKEN

The Corken Autogas Pump achieves new levels of performance with higher flow at high differential pressures, non-pulsating and quiet transfer, longer pump life and a design that is easy to repair. The pump is also versatile enough to be used in like applications such as cylinder filling, vaporizer feeding or bulk transfer.

Corken Autogas Pumps



FF-150

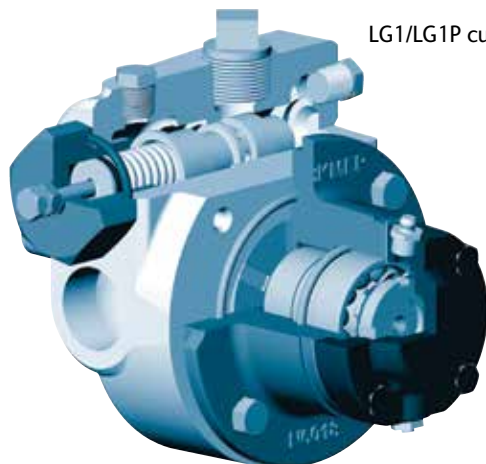
Part Number	Description	Inlet	Outlet	RPM	Working Pressure	Maximum Recommended Differential Pressure
FF060	Bare pump	1 1/2" ANSI 300 lb. RF Flange	1" ANSI 300 lb. RF Flange	3450	400 psig	150 psig
HDPDLF060-1P51	Foot mount pump with bypass and single phase, 5 HP motor					
HDPDLF060-3P53	Foot mount pump with bypass and three phase, 5 HP motor					
HDPFF060-1P51	Direct mount pump with bypass and single phase, 5 HP motor					
HDPFF060-3P53	Direct mount pump with bypass and three phase, 5 HP motor					
FF075	Bare pump					
HDPDLF075-3P75	Foot mount pump with bypass and three phase, 7.5 HP motor			3600	400 psig	250 psig
HDPFF075-3P75	Direct mount pump with bypass and three phase, 7.5 HP motor					
FF150	Bare pump					
HDPFF150-3P10	Direct mount pump with bypass and three phase, 10 HP motor					
HDPFF150-3P75	Direct mount pump with bypass and three phase, 7.5 HP motor					
DL16	Bare pump					200 psig
HDPDL16-3P1	Direct mount pump with bypass and single phase, 3 HP motor					
HDPDL16-3P3	Direct mount pump with bypass and three phase, 3 HP motor					
C16GD6A	Close coupled pump with byps and three phase, 3 HP motor					

Notes

- (1) All pumps require companion flange kit (part no. 6133X1) which includes bolts, nuts, flexitalluc gaskets and flanges
- (2) Use B166B-1CAU bypass with 100 - 225 psi spring range (150 max allowed per NFPA 58)
- (3) Switch not included. Requires 3 phase explosion proof switch with magnetic starter
- (4) Variable frequency drive converts single phase to three phase service, also has slow start up function which helps nuisance excess flow closures and allows for switch without magnetic starter

Blackmer Pumps (continued next 5 pages)

LGF1 & LGB1 Pumps Motor Speed Pumps for Cylinder Filling



LG1/LG1P cutaway

These 1-inch motor speed pumps have long been popular for cylinder filling, small volume motor fueling and supplying small vaporizers. They offer the same heavy-duty construction of larger Blackmer models and are available in two mounting styles and capacity ranges. The LGF1 model is fitted with an integral bracket and coupling for direct flange mounting to a NEMA C-face motor. This bracket also allows the pump body to be rotated to simplify hookup to piping systems. The LGB1 model is equipped with a coupling and bracket for mounting to a conventional base. The LGF1 and LGB1 models will handle up to 10 U.S. gpm (38 L/min). The LGF1P and LGB1P models offer 50% greater capacity and will handle up to 15 U.S. gpm (57 L/min).

All models have 1-inch NPT tapped ports and use an exclusive "combination" valve that acts as both a back-to-tank bypass valve and as an internal relief valve. This feature lowers installation costs by eliminating the need for a separate bypass valve. It also assures pressure relief if the back-to-tank bypass line is closed. The valve's unique three-stage operation is shown in Figure 3.

Standard construction materials for these models include Buna-N mechanical seals and Duravanes for handling both LP gas and anhydrous ammonia. Maximum differential pressure is 125 psi (8.62 Bar) for both models.

Assembled Pump Units

LGF Drive Style

Flange Mounting -
Direct Motor Drive



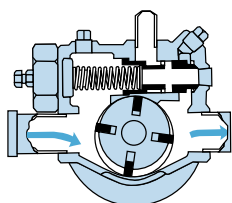
LGF1 and LGF1P models are supplied with an integral bracket and flexible shaft coupling, ready to accept a NEMA C-face motor. All LGF units are available with or without electric motors.

LGF1/LGF1P

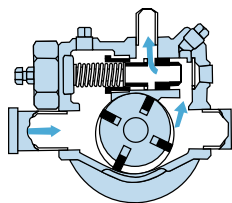


LGB1/LGB1P

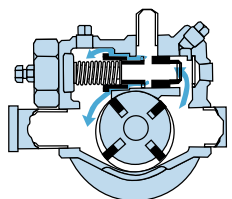
FIGURE 3. Combination relief/bypass valve



Normal Operation
Valve is completely closed during normal operation with discharge line open.



Back-to-Tank Bypassing
Discharge pressure exceeding the valve setting opens valve to second stage, returning all or part of pump flow back to supply tank.



Pressure Relief
If back-to-tank line is closed, valve opens to third stage, passing flow back to inlet side of pump.



DM Drive Style

Bracket Mounting -
Direct Motor Drive
LGB1-DM or LGB1P-DM base-mounted units are available, complete with pump, bracket, coupling and coupling guard, mounted

on a common base, ready to accept a standard NEMA motor. All DM units are available with or without electric motors.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Blackmer Pumps (cont.)

LGF1 & LGB1 Pumps

Motor Speed Pumps for Cylinder Filling

Selection Data

When selecting a standard pump or assembled unit from the table below, check the pump's delivery and brake horsepower requirements in the performance curves. These pumps are rated for continuous duty, although such applications may accelerate pump wear rates, particularly if vaporization occurs in the pump

intake line. Pumps used on vaporizers should be mounted with inlet up, and sized for a capacity of at least 150% of the normal peak load to prevent system failure due to sudden pressure drop on start-up. Additional system requirements can be achieved by series of parallel staging.

Assembled Pump Units		Pump and Motor Speed rpm	Approximate Delivery of Propane at Differential Pressures and Pump Speeds Shown ¹				Maximum Differential Pressure		Maximum Working Pressure ³		Normal Time To Fill LP Gas Cylinders in Minutes		Standard Motor ²	Motor Size For Mounting on Standard Base ²	
Model	Factory Relief Valve Setting		50 PSI (3.45 Bar)		100 PSI (6.89 Bar)		psi	Bar	psi	Bar	20 lb. (9 kg) Cylinder	100 lb. (45 kg) Cylinder	hp	Minimum Frame Size	Maximum Frame Size
			gpm	L/min	gpm	L/min									
LGF1	105 psi (7.24 b ar)	1,750	8.0	30.3	6.0	22.7	125	8.62	350	24.13	³ / ₄	3	1	56C	184C ⁴
LGB1-DM	105 psi (7.24 Bar)	1,750	8.0	30.3	6.0	22.7	125	8.62	350	24.13	³ / ₄	3	1	56	184
LGF1P	120 psi (8.27 Bar)	1,750	13.0	49.2	10.0	37.9	125	8.62	350	24.13	¹ / ₂	2	1½	56C	184C ⁴
LGB1P-DM	120 psi (8.27 Bar)	1,750	13.0	49.2	10.0	37.9	125	8.62	350	24.13	¹ / ₂	2	1½	56	184

¹ Check the pump's delivery and brake horsepower requirements in the performance curves below. See footnote with the curves which explains the factors that can cause delivery to vary.

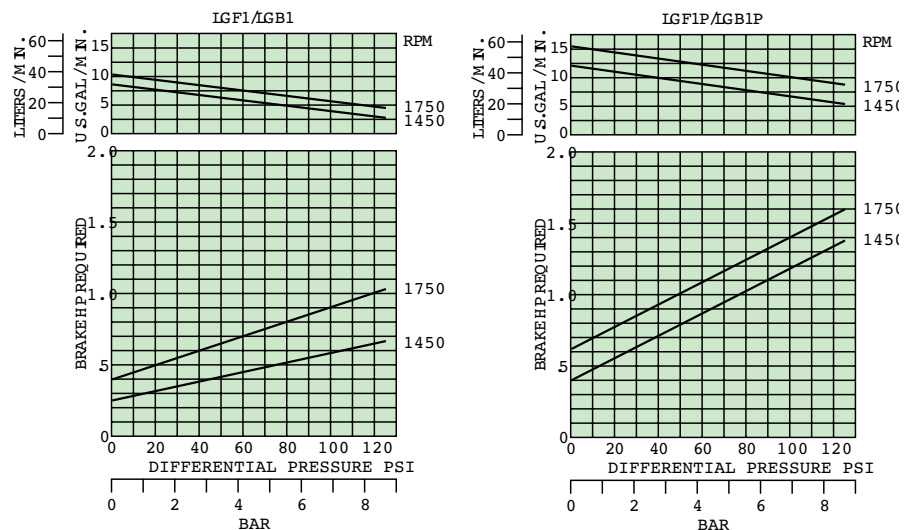
² Motors may be specified from Electric Motor Price List No. 10-MTRG-01 (explosion-proof manual start switch for 1 & 1-1/2 horsepower single-phase motors also available).

³ Maximum rated working pressure is 350 psi (24.13 Bar) for LPG and NH₃ (limited by U.L. and N.F.P.A. 58).

⁴ Pump flange accepts NEMA C-face motors with 5-7/8" bolt circle diameter. Pump flange will not accept 182TC or 184TC frames.

Performance Curves

These curves are based on approximate delivery rates when handling propane or anhydrous ammonia at 80°F (26.7°C). Line restrictions such as excess flow valves, elbows, etc. will adversely affect deliveries. For propane at 32°F (0°C), actual delivery will be further reduced to about 80% of nominal. Delivery of butane at 80°F (26.7°C) will be 60% to 70% of these values, and may run as low as 35% to 45% at 32°F (0°C). This loss of delivery is not a pump characteristic but is caused by natural thermodynamic phenomena of liquefied gases.



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Blackmer Pumps (cont.)

LGL Series Pumps With Cavitation Suppression Liners



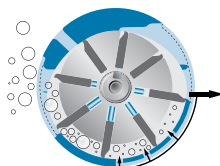
1.25-inch through 4-inch LGL pumps feature noise suppression liners.

This patented technology reduces noise at its source by reducing the amount of cavitation in the pump. Reducing the cavitation level also reduces vibration and wear.

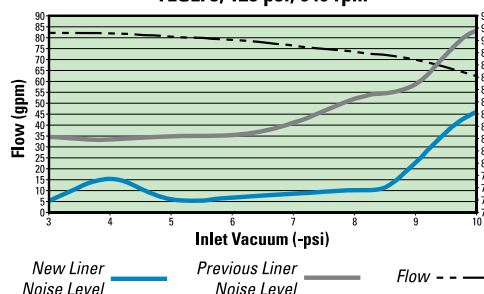
The sudden collapse of vapor bubbles inside the pump is known as cavitation. By allowing a controlled amount of fluid at discharge pressure to bleed back toward the suction of the pump, the vapor bubbles are collapsed over a longer period time. The net result is less noise, less vibration and less wear.

As shown in the chart, the reduction in noise level can be quite dramatic. Similar noise reductions have been measured in all the LGL pump sizes.

Patent number: 6,030,191



Flow and Noise vs. Inlet Vacuum
TLGLF3, 125 psi, 640 rpm



LGRL1.25, LGL1.25 & LGL1.5 Pumps Motor Speed Pumps for Motor Fueling and Multi-Cylinder Filling



LGL1.25/LGL1.5



LGL1.25/LGL1.5



LGRF1.25/
LGLF1.25

These durable motor speed pumps offer capacities from 9 to 35 U.S. gpm (34-132 L/min), and are ideal for motor fueling, multiple-station cylinder filling and a variety of small transfer jobs. The LGL models are designed for foot mounting to a common base-plate. The LGLF models are fitted with an integral bracket and coupling for direct flange mounting to a NEMA C-face motor. This bracket also allows the pump body to be rotated to simplify hookup to piping systems.

Available with 1.25 or 1.5-inch NPT tapped ports, all models are equipped with an internal relief valve, and a replaceable casing liner and end discs for easy rebuilding of the pumping chamber if ever necessary. The LGRLF 1.25-inch model features a special liner, which offers lower flow rates than the LGL 1.25-inch pump. In addition, these pumps feature cavitation suppression liners to reduce noise, vibration and wear.

Standard construction materials for these models include Buna-N mechanical seals and Duravanes for handling both LP gas and anhydrous ammonia. Maximum differential pressure is 150 psi (10.34 Bar) for all models.

Assembled Pump Units



Blackmer



LGF Drive Style

Flange Mounting - Direct Motor Drive
Standard LGRLF1.25, LGLF1.25, and LGLF1.5 models are supplied with an integral bracket and a flexible shaft coupling, ready to accept a NEMA C-face motor. All LGF units are available with or without electric motors.

DM Drive Style

Foot Mounting - Direct Motor Drive
LGL1.25-DM and LGL1.5-DM base-mounted units are available, complete with pump, coupling and coupling guard, mounted on a common base, ready to accept a standard NEMA motor. All DM units are available with or without electric motors.

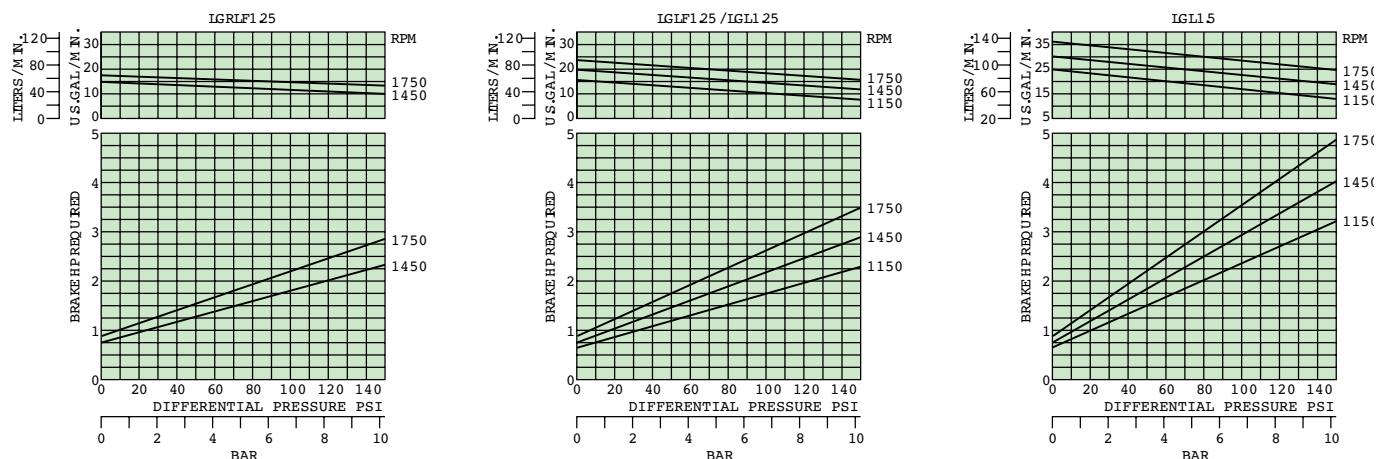
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Blackmer Pumps (cont.)

Performance Curves



These curves are based on approximate delivery rates when handling propane or anhydrous ammonia at 80°F (26.7°C). Line restrictions such as excess flow valves, elbows, etc. will adversely affect deliveries. For propane at 32°F (0°C), actual delivery will be further reduced to about 80% of nominal. Delivery of butane at 80°F (26.7°C) will be 60% to 70% of these values and may run as low as 35% to 45% at 32°F (0°C). This loss of delivery is not a pump characteristic but is caused by natural thermodynamic phenomena of liquefied gases.

Selection Data

When selecting a standard pump or assembled unit from the table below, check the pump's delivery and brake horsepower requirements in the performance curves. These pumps are rated for continuous duty, although such applications may accelerate pump wear rates, particularly if vaporization occurs in the pump intake line. Pumps used on vaporizers should be mounted with inlet up, and sized for a capacity of at least 150% of the normal peak load to prevent system failure due to sudden pressure drop on startup. Additional system requirements can be achieved by series or parallel staging.

Assembled Pump Units		Pump and Motor Speed rpm	Approximate Delivery of Propane at Differential Pressures and Pump Speeds Shown ¹				Maximum Differential Pressure		Maximum Working Pressure ²		Motor Size For Mounting on Standard Base ³	
Model	Factory Relief Valve Settings		50 psi (3.45 Bar)		100 psi (6.89 Bar)		psi	Bar	psi	Bar	Minimum Frame Size	Maximum Frame Size
			gpm	L/min	gpm	L/min						
LGRF1.25	150 psi (10.34 Bar)	1,750	16.0	60.6	14.0	53.0	150	10.34	350	24.13	56C	184C ⁴
LGLF1.25	150 psi (10.34 Bar)	1,750 1,150	21.0 13.0	79.5 49.2	18.0 10.0	68.1 37.9	150 150	10.34 10.34	350 350	24.13 24.13	56C 56C	184C ⁴ 184C ⁴
LGL1.25-DM	150 psi (10.34 Bar)	1,750 1,150	21.0 13.0	79.5 49.2	18.0 10.0	68.1 37.9	150 150	10.34 10.34	350 350	24.13 24.13	56 56	215 215
LGL1.5-DM	150 psi (10.34 Bar)	1,750 1,150	33.0 20.0	124.9 75.7	29.0 17.0	109.8 64.4	150 150	10.34 10.34	350 350	24.13 24.13	56 56	215 215
LGLF1.5	150 psi (10.34 Bar)	1,750 1,150	33.0 20.0	124.9 75.7	29.0 17.0	109.8 64.4	150 150	10.34 10.34	350 350	24.13 24.13	56C 56C	184C 184C

¹ Check the pump's delivery and brake horsepower requirements in the performance curves. See footnote with the curves which explains the factors that can cause delivery to vary.

² Maximum rated working pressure is 350 psi (24.13 Bar) for LPG and NH₃ (limited by U.L. and N.F.P.A. 58).

³ Motors may be specified from Electric Motor Price List No. 10-MTRG-01 (explosion-proof manual start switch for 1 & 1-1/2 horsepower single-phase motors also available).

⁴ Pump flange accepts NEMA C-face motors with 5-7/8" bolt circle diameter. Pump flange will not accept 182TC or 184TC frames.

Note: Refer to back cover for external bypass valve information.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Blackmer Pumps (cont.)

LGL150 Series Motor Speed High Differential Pressure Pumps

Designed for the toughest LPG applications:



LGL 154



LGL 158A

Applications

- Single and dual hose fuel dispensers
- Aerosol filling
- Vaporizer feed
- Underground tank applications
- Aboveground tank applications
- Other high differential pressure liquefied gas applications
- U.L. listed for use on propane, butane, butane/propane mixes and anhydrous ammonia



Features

- Designed for high differential pressure of 13.7 bar (200 psi)
- Sliding vane, positive displacement design for consistent performance
- Motor speed operation at 1,450 rpm (50Hz) or 1,750 rpm (60Hz) operation
- LGL158 suction lift up to 13 feet (4 meters) – smaller pumps have less lift capability
- LGL154 & 156 Models designed to allow use of single phase motors
- Cavitation suppression liner
- Replaceable liner and discs
- Ductile iron construction
- Flanged inlet and outlet connections
- Factory ISO-9001 certified

Pump Specifications

Pump Model	Maximum Speed	GPM (L/min)	HP (kW)	Maximum Differential Pressure	Recommended Bypass Valve Setting	Relief Valve Setting	Maximum Working Pressure
LGL154	1,750	11.2 (42.4)	3 (2.2)	140 PSI (9.6 bar)	140 PSI (9.6 bar)	225 PSI (15.5 bar)	425 PSI (29.3 bar)
LGL156	1,750	21 (79.5)	4.9 (3.6)	160 PSI (11.0 bar)	160 PSI (11.0 bar)	225 PSI (15.5 bar)	425 PSI (29.3 bar)
LGL158	1,750	32.3 (122)	6.5 (4.8)	200 PSI (13.8 bar)	200 PSI (13.8 bar)	225 PSI (15.5 bar)	425 PSI (29.3 bar)

DM Drive Style

Direct Motor Drive

Base mounted units are available, complete with pump, coupling and coupling guard, mounting on a common base, ready to accept a standard NEMA motor. DM units are available with and without electric motors.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Corken Plant Pumps

Reliable, time tested
and proven, the best
plant pump in the
industry...
Floating rotor and
hydraulically
actuated vanes.

CORKEN

Note: Add -103 to the
model number to indicate
the complete unit; pump,
baseplate, motor slide
base, belts and pulleys,
with
belt guard.
Stock units are setup
at 780 RPM



521EG

Motors should
be ordered
separately - 1750
RPM, explosion
proof, three phase
or single phase.

Bare Pumps					
Part Number	Inlet Connection	Outlet Connection	Weight	Recommended Motor Size	Capacity
521EG	2"	2"	132 lbs	5 HP ¹	30 - 85 GPM
Z3500HG	3"	3"	140 lbs	10 HP ¹	52 - 197 GPM
Z4500HG	4" ANSI RF Flange	3" ANSI RF Flange	261 lbs	10 HP ¹	197 - 382 GPM
(1) Explosion Proof Motors, if required, should be ordered separately. Electrical options include Voltage & Phase Rating.					

Complete Pump, Base & Motor Assembly				
Part Number	Inlet Connection	Outlet Connection	Weight	Installed Motor
521EG-103	2"	2"	422 lbs	(1)
Z3500HGAMT-103-10HP	3"	3"	424 lbs	10HP
Z4500HGASP-103-25HP	4" ANSI RF Flange	3" ANSI RF Flange	1028 lbs	25HP
FF150CD6A-101-14	1 1/2" ANSI RF Flange	1" ANSI RF Flange	396 lbs	10HP
FF150CD6A-101-14-7.5HP			396 lbs	7.5HP (2)
(1) Stocked without motor. Motor can be sized and installed before shipping. Contact our sales team for assistance. (2) Use 7.5 HP motor when electrical service is limited.				

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Corken Bulk Truck and Transport Pumps

Repair Kits next page



Z3200HG



Inlet: 3" Flanged
Outlet: 2" NPT Elbow
Auxil. Inlet: 1 1/2", 2" NPT
or Blind

Controlling thrust loads and cavitation are critical for extended pump life. The new Corken Z pump thrust bearing design is rated up to 4000 lb. of thrust. Z pumps last longer and need service less often because of their new materials and design.

You can hear the quiet superiority of the Z pump. It is easy to switch to a Z pump...no piping changes. And the best warranty in the business. Now is the time to step up to Corken quality.

Bulk Truck/Bobtail Pump

The Z3200 is a truck pump that is typically used on delivery trucks requiring capacities of 63 to 121 GPM. The Z3200 is designed with 300 lb. ANSI flanges for maximum strength. The belly-mount flange design minimizes cavitation and increases pumping efficiency.

Z4200



Inlet: 4" Flanged
Outlet: 2" Dual NPT

CORKEN

Transport Pump

The Z4200 is a truck pump used on transports requiring capacities of 200 to 400 GPM. It is designed with 300 lb. ANSI flanges for maximum strength. The belly-mount flange design minimizes cavitation and increases pumping efficiency.

Z2000



Inlet: 2" NPT
Outlet: 2" NPT

Bulk Truck/Bobtail Pump

The Z2000 is a foot-mounted, sliding vane, pump designed for bulk delivery trucks requiring 41 to 85 GPM flow capacity. The pump is securely mounted on a steel frame fixed to the truck's chassis and is piped from the internal valve on the truck's barrel.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Kit No.	2904X2		3109X1	2905X5	2906X2		2907X3	
For Pump Model	521E	522E, T522E, TR522E	T522G, TR522G	T722G, TR722G	1021E, F1021E	1022E, F1022E	F1521F	F1522F, T1522F, TR1522F
Seal Assembly (Qty)	1769XRA (2)		1769XRA (2)	1769XRA (2)	1769XRA (2)		1769XRA (2)	
Bearings (Qty)	2754X (2)		2754X(2)	2754X(2)	2754X (2)		3209	
Outer Race	-	-	-	-	-	-	2754 (2)	
Thrust Bearing	-	-	-	-	-	-	-	
Grease Seals (Qty)	1358 (2)		1358 (2)	1358 (2)	1358 (2)		1358 (2)	
Grease Seal Thrust	-	-	-	-	-		2014	
Blades / Vanes (Qty)	1168-7 (10)		4000 (6)	3981 (6)	1308-9 (10)		3477 (6)	
Blade/Vane Driver	-	-	-	-	-	-	-	-
Sideplates (Qty)	1163-2 (2)		3932 (2)	3932 (2)	1209-1 (2)		3476R, 3476L	
Case O- Ring (Qty)	2-261A (2)		2-261A (2)	2-261A (2)	2-268A (2)		2-268A (2)	
Inlet Flange O-Ring	2-234A	?	?	-	** 2-245A, 2-249A		-	-
Outlet Flange O-Ring	2-234A	?	?	2-234A	** 2-245A, 2-249A		-	-
R Valve Cap O-Ring	2-224A		?	-	2-228A		-	-
RV Adj Screw O-ring	2-112A		?	-	2-112A		-	-
RV Flange O-Ring	-		?	-	-		2-245A, 2-249A, 2-234A, 2-238A	
Cam / Liner	* 1162-2		?	* 4192	* 1201-2 (1 0		* 1792-1	
Rotor & Shaft	* 11661X1R	* 11661X2R		* 3983X2R	* 12081X1R	* 12081X2R	* 3350X1R	* 3350X2R

* Items Not included in Kit

** 2 pieces each 3" standard & 4" optional. Flange O-Rings are included with kit 2906X2

Kit No.	3193X1	3195X1	3195X2	3197X1
For Pump Model	Z2000	Z3200, ZH3200	Z3500	Z4200, Z4500
Seal Assembly (Qty)	4431XA2 (2)	4431XA2	6660XA2 (2)	4464XA2 (2)
Roller Bearing (Qty)	2754X (2)	2754X (2)	2754X (2)	4460X (2)
Outer Race	-	-	-	-
Thrust Bearing (Qty)	4432 (2)	4432 (2)	4432 (2)	4453 (2)
Thrust Bearing Mtg Ring (Qty)	4435 (2)	4435 (2)	4435 (2)	4454 (2)
Grease Seals (Qty)	4441 (2)	4441 (2)	4441 (2)	4463 (2)
Blades / Vanes (Qty)	4428 (6)	4232 (6)	3936 (6)	4448 (6)
Blade/Vane Driver (Qty)	4262X (3)	4262X (3)	5554X (2)	4449X (5)
Sideplates (Qty)	*4427 (2)	* 4231 (2)	* 3935 (2)	* 4446 (2)
Case O- Ring (Qty)	* 2-261A (2)	* 2-262A (2)	* 2-268A (2)	* 2-270A (2)
Inlet Flange O-Ring	2-231A	-	* 2-259A	-
Aux Inlet Flange O-Ring	-	-	-	2-234A
Outlet Flange O-Ring (Qty)	2-231A (2)	2-234A (2)	* 2-245A	2-231A
R Valve Cap O-Ring	2-224A	2-224A	2-228A	2-234A
Bearing Cap Shim (0.002) (Qty)	4439 (8)	4439 (8)	4439 (8)	4458 (8)
Bearing Cap Shim (0.010) (Qty)	44391 (2)	44391 (2)	44391 (2)	44581 (2)
Bearing Cap Shim (0.020) (Qty)	44392 (2)	44392 (2)	44392 (2)	44582 (2)
Shaft Key	2270	2270	2270	4459
Cam / Liner	*4414	* 4242	* 5539	* 4443
Rotor & Shaft	4430X2R	* 4495X2R	* 12081X6R	* 4444X2R
* Items Not included in Kit				
Rebuild Kit No.	3194X1	3196X1	3196X2	3198X1
For Pump Model - includes all repair kit items plus sideplates & cam/liner	Z2000	Z3200, ZH3200	Z3500	Z4200 Z4500

CORKEN CORO-VANE LPG/NH3 REPAIR KITS

High Flow Bypass Valve for Dispensing Applications

High Flow 3" Bypass Valve for Plant Applications



bergquistinc.com



ME840-6/150

High Flow Bypass Valve Features

- Ductile iron body and bonnet construction
- Large range of set pressure springs
- Two 1/4" FNPT plugged auxiliary pressure ports (outlet side)
- Stainless steel main valve poppet
- Heavy duty protective stem cap
- Available in 3/4" & 1" FNPT threaded versions
- Factory set at 125 PSI
- Durable powder coat finish

Intended for use in small cylinder filling applications as a bypass and primer valve for turbine style dispensing pumps. These bypass valves feature a special "check ball" mechanism that helps eliminate vapor from liquid while keeping the pump flooded and properly primed. The priming and vapor elimination features in combination with the high flow bypass design significantly reduces pump wear and promotes seal longevity.

Part No.	Description	Standard Spring Range*
ME840-6-150	3/4" FNPT High Flow Bypass Valve	50-150 PSI
ME840-8-150	1" FNPT High Flow Bypass Valve	50-150 PSI

* Alternate spring ranges available. Please see replacement parts section in back of catalog



ME840-24-100

Specifically designed for plant systems where maximum bypass flow is necessary to protect the pump from rapid pressure changes or over pressurization. Perfectly suited for 4" base mount pumps or larger pump applications.

3" High Flow Bypass Valve Features

- Ductile iron body and bonnet construction
- All stainless steel internal wetted components
- Bonnet / seat positioned at 35° angle for maximum product flow
- Downstream bleed port to boost product flow during bypass
- Two 1/4" FNTP plugged auxiliary pressure ports
- Heavy duty protective stem cap
- Factory set at 100 PSI
- Durable powder coat finish

Part No.	Description	Standard Spring Range*	
ME840-24-100	3”FNPT high flow bypass valve	0-100 PSI	
Parts and Accessories			
ME840-24K	3”complete bypass repair kit - less spring (Major Kit)		
ME840-24SRK	3” bypass seal repair kit (Minor Kit)		
ME840-24-105-100	3” bypass valve spring 0-100 PSI		
ME840-24-105-200	3”bypass valve spring 100-200 PSI		
Flow Range Minimum and Maximum Flow Rating* - GPM (water) @			
Part No.	Pressure	Min. Flow (GPM/Water)	Max. Flow (GPM/Water)
ME840-24-100	125	451	1,038
* Alternate spring ranges available.			

* Alternate spring ranges available.



bergquistinc.com

High Flow Bypass Valves for Bobtail Truck/ Plant Applications

High Flow Bypass Valve Features

- All ductile iron body and bonnet
- All stainless steel wetted components
- Heavy duty protective stem cap
- Wide open flow channels for industry best flow rates
- Orifice weep hole to maintain constant pressure above and below valve seat
- Large range of set pressure springs
- Weldable steel NPT and socket weld flanges
- Zinc dichromate finish for maximum corrosion resistance
- Available with or without flanges factory assembled
- Flanges available 1-1/4" through 2" NPT and socket weld construction
- Universal 4 bolt, flanged body configuration
- Two 1/4" FNPT plugged auxiliary pressure ports
- Factory set at 125 PSI

ME840-16/125



These bypass valves are specifically designed to protect truck and plant pumps from damage due to excessive pressure while providing the industry's best bypass flow rates across a full range of set pressures. They feature wide open flow channels with an orifice weep hole chamber to prevent the valve from slamming open / closed. The weep hole chamber also helps prevent valve seat chatter by allowing constant pressure communication between both the upstream and downstream side of the seat.

Part No.	Description	Standard Spring Range*
ME840-10-125	1-1/4" FNPT High Flow Bypass Valve	90-125 PSI
ME841-10-125	1-1/4" Socket Weld High Flow Bypass Valve	90-125 PSI
ME840-12-125	1-1/2" FNPT High Flow Bypass Valve	90-125 PSI
ME841-12-125	1-1/2" Socket Weld High Flow Bypass Valve	90-125 PSI
ME840-16-125	2" FNPT High Flow Bypass Valve	90-125 PSI
ME840C-16-125	2" FNPT Classic Flow Bypass Valve	90-125 PSI
ME841-16-125	2" Socket Weld High Flow Bypass Valve	90-125 PSI
ME840-125	1-1/4" -2" Universal High Flow Bypass w/o Flanges	90-125 PSI

*Alternate spring ranges available.

Universal Flange Kits

Part No.	Description
ME840-10F	1-1/4" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME841-10F	1-1/4" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME840-12F	1-1/2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME841-12F	1-1/2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME840-16F	2" FNPT 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
ME841-16F	2" Socket Weld 4 Bolt Flange Adapter Plate w/ Bolts & O-Ring
MEP840-10	1-1/4" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP841-10	1-1/4" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP840-12	1-1/2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP841-12	1-1/2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP840-16	2" FNPT 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring
MEP841-16	2" Socket Weld 4 Bolt 90° Flange Adapter Elbow w/ Bolts & O-Ring

High Capacity Pump Discharge Elbows

Part No.	Description	Fits Pump Model
MEP840H-16	Excelsa-Flange 2" FNPT High Flow Discharge Elbow, 4 Bolt Type A	TLGLF3
MEP840HSS-16	Excelsa-Flange 2" FNPT High Flow Discharge Elbow, 4 Bolt Type A - SS	TLGLF3
MEP841H-16	Excelsa-Flange 2" Socket Weld High Flow Discharge Elbow, 4 Bolt Type A	Z3200
MEP841HSS-16	Excelsa-Flange 2" Socket Weld High Flow Discharge Elbow, 4 Bolt Type A - SS	Z3200

Bypass Valves and Back Pressure Valves



ZV200

B166-.75



The new ZV200 is a low-pressure build-up bypass valve designed for applications requiring protection for positive displacement pumps. Specifically designed for protecting pumps with capacities up to 250gpm (946L/min). The continuous internal bleed will assist in the operation of systems with "air" or "electric" operated internal valves. Typical applications include bobtail, transport and stationary loading and unloading of LPG, NH3 and other light liquids.

Corken Bypass Valves

Part Number	Size	PSI Range	Description
B166-.75	3/4"	50 - 150	Vapor elimination for all
B166-1	1"	50 - 150	
B166B-1CAU	1"	100-225	
T166-1.25	1 1/4"	50 - 150	Modulating Flo-Control Valve
T166-1.5	1 1/2"	50 - 150	
B177-2	2"	30 - 80	Differentiating by-pass with pressure sensing line from storage
B177-2.5	2 1/2"	80 - 160	
ZV200	2"	91 - 125	Truck Applications



T166 BY-PASS

Tank and stationary pump by-pass



B177 BY-PASS

Differential by-pass with pressure sensing line from storage tank for true differential control.



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Bypass Valves and 4-way Valve



Blackmer Bypass Valves

Part No.	Body Size	Pump Size	Set PSI	PSI Range	Cap. GPM
BV 1	1" NPT	1 1/4" - 1 1/2"	95	70 - 100	50
BV 1 1/4	1 1/4" NPT	1 1/4" - 2"	115	90 - 125	125
BV 1 1/2	1 1/2" NPT	2" - 3"			
BV 2	2" NPT	3" - 4"	95		



BVI 1/4

4-Way Valve

Part No.	Size
3989X	1"
3990X	1 1/4"

Non-lubricated full port design.
Carbon steel construction



3989X

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Blackmer Bypass Valves

Precise, On-Line Pressure Protection

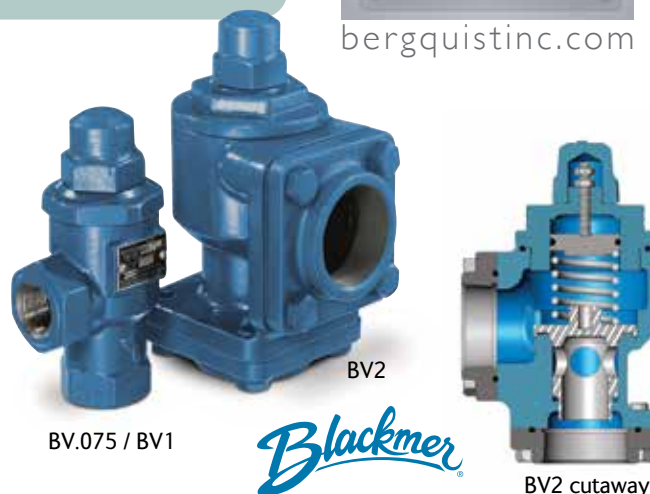


Selection Guide

Model BV0.75 (ports are 3/4-inch NPT tapped)
Model BV1 (ports are 1-inch NPT tapped)
These models are commonly used for cylinder-filling system. Either valve can be used with 1.25 or 1.5-inch Blackmer pump models

Model BV1.25 (ports are 1 1/4-inch NPT tapped)
Model BV1.5 (ports are 1 1/2 -inch NPT tapped)
These models are normally used for bobtail trucks and smaller bulk plant systems. Either valve can be used with 2 or 3-inch Blackmer pump models. Both valves are available with optional springs for use with the LGL 158 or LGL H2

Model BV2 (ports have 2-inch NPT companion flanges, 1 1/4-inch and 1 1/2-inch NPT ad WELD bolt-on flanges are available).
The BV2 model is widely used for transports or larger bulk plant systems.
It is recommended for use with 3 and 4-inch Blackmer pump models.
The BV2 is factory set at 125 psi.



Blackmer differential bypass valves are designed to protect pumps and system components from excessive pressure damage, and no LP gas pump installation is complete without one. Blackmer offers five different models that provide full-flow pressure control to 250 U.S.

gpm (946 L/min) at 120 psid (8.27 Bar). Installation is easy with NPT tapped ports in sizes from 3/4" to 2". All models are suitable for both LP gas and anhydrous ammonia service.

Technical Assistance

In some applications, selecting the right pump or compressor may require more detailed information than can be presented in this bulletin. Your Blackmer representative can help you find the correct equipment to ensure the best performance possible for your specific application.

If you have a unique gas or fluid handling problem, please contact Blackmer at the telephone or fax number listed below.

View maintenance and training videos online at <http://www.youtube.com/BlackmerGlobal/>.

In operation, Blackmer valves provide exceptionally close pressure

Maximum flow through valve

Model	Maximum Rated Flow* - gpm (L/min) @			
	20 psi (1.38 Bar)	50 psi (3.45 Bar)	80 psi (5.52 Bar)	120 psi (8.27 Bar)
BV0.75 / BV1	25 (95)	40 (151)	50 (189)	60 (227)
BV1.25 / BV1.5	60 (227)	80 (303)	100 (379)	125 (473)
BV2	150 (568)	180 (681)	220 (833)	250 (946)

*Normal maximum bypass flow rates without significantly exceeding the set pressure limit, even under widely varying bypass flow conditions. The performance curve in Figure 4 below shows how a Blackmer valve maintains a virtually constant pressure of 100 psi (6.89 Bar) even as the volume being bypassed rises from 10 gpm to 100 gpm (38-378 L/min). Although the curve is that of a BV1.5" valve, the precision it demonstrates is typical of any Blackmer valve.

Blackmer bypass valves have no small, easily plugged, sensing passages; and with only two moving parts, their operation is simple and reliable. They open precisely at the preset spring pressure, and they close smoothly and quietly, thanks to a patented dash-pot design. As shown in Figure 5, a small chamber in the valve stem fills with liquid when the valve opens. This liquid then provides a hydraulic cushion preventing the valve from slamming shut if pressure is suddenly released. It also minimizes chatter and valve seat wear when pressures hover around the crucial limit.

The BV0.75 , BV1, BV1.25, and BV1.5 are all UL Listed for 200 PSI.

FIGURE 4. Bypass volume/pressure curve BV1.5

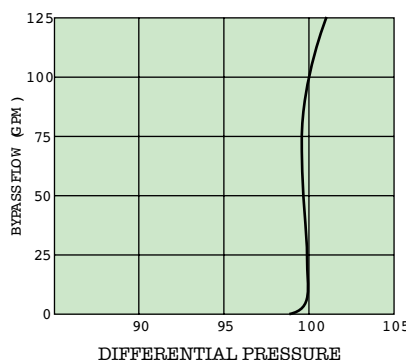
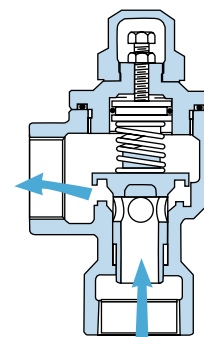


FIGURE 5. Bypass valve operation



Dash-pot chamber cushions closing of valve

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Corken Compressors, Repair Parts, Exchange Program

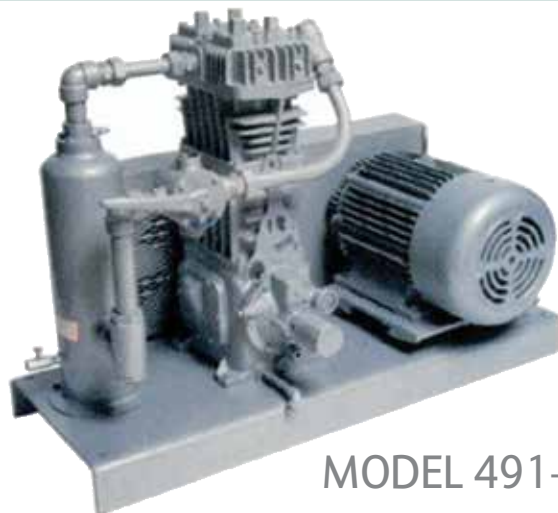
Corken compressors are extremely versatile. They can be used to transfer liquids between tanks, off-load liquids, recover residual vapor, and evacuate vapors for maintenance purposes.

For compressors, compressor service, parts or additional information, please call Bowling Green, KY Warehouse.
800-448-9504

Compressor repair and return program also available at Bergquist Inc. Bowling Green, Kentucky facility.

Compressor Exchange Program

- 6 Month Warranty
1. Order the like model of the down compressor
 2. Bergquist will immediately ship the exchange compressor to you
 3. Ship the down compressor to Bergquist, Bowling Green, KY
 4. If core is rebuildable, credit will be issued for core charge included in price of rebuilt compressor. Repair & return service is also available.



MODEL 491-107

CORKEN

Add 107 to the model number to include the following: complete gas compressor bulk plant unit with pressure gauges, steel baseplate, liquid trap, 4-way valve, relief valve, strainer, interconnecting piping, adjustable driver slide base, V-belt drive and enclosed belt guard - ready to receive an electric motor driver.

Compressor Selection Chart

Model	Capacity GPM	Horsepower Required
91	44	5
291	77	7 1/2
291	88	10
491	110	10
491	198	15
691	265	20
691	330	30

Corken Compressor Repair Kit

Model #	Kit #
91	3549X1
291	3550X
491	3551X1
691	3552X2

Note: Repair kits include valves, piston rings, packing, rod bearings and gaskets.

Corken Compressor Repair Parts

We have a full line of **single stage compressor** parts for models 291, 491, and 691 to include valves, piston rings and expanders, packings, packing nuts, crossheads, wrist pins, bushings, crankshafts, oil pumps, bushings, springs, gasket sets, etc. We also have several parts available for **two stage compressors**: 191, 391, and 591 compressors. Please call **1-800-448-9504** for further assistance. Complete model and serial # will be helpful for a quicker response.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Motors, Single Phase



BALDOR • RELIANCE

Single Phase Baldor Explosion Proof Motors

Part Number	H.P.	RPM	Volts	Frame	Fold Load Amps	Weight
VL5023A *	1	1725	115/230	56C	6.5	54
VL5024A *	1 1/2"	1725	115/230	56C	8	76
L5030T	1 1/2"	3450	115/230	143T	7.5	56
L5018	3	1725	115/230	215	15	152
L5028T	3	3450	115/230	184T	14.5	84
L5020	5	1725	230	215	21	166

* C faced motors for Blackmer pumps

Note: Corken F & FF model pumps use 3450 RPM

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Motors, Three Phase



BALDOR • RELIANCE

Three Phase Baldor Explosion Proof Motors

Part Number	H.P.	RPM	Volts	Frame	Full Load Amps	Weight
EM7018T-1	1 1/2	3450	230/460	143T	2.1	42
EM7042T-1	3	1725	230/460	182T	4.1	105
EM7044T-1	5	1725	230/460	184T	6.7	120
EM7072T-1	5	3450	230/460	184T	5.6	85
EM7047T-1	7 1/2	1725	230/460	213T	10.2	177
EM7170T-1	10	1725	230/460	215T	14.2	225
EM7174T	10	3450	230/460	215T	11.6	236
EM7054T-1	15	1770	230/460	254T	18	347
EM7056T-1	20	1760	230/460	256T	24	365
EM7058T-1	25	1775	230/460	284T	30.8	454

Note: (1) truck loading facilities where motors may run intermittently. Also, applications where explosion-proof motors are installed outdoors, exposed to the environment, and may not be operated for extended periods of time.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



CORKEN

Part Number	Description			
	HP	RPM	Phase, Volt	Mount
6007-2C2B1	3	3600	3 phase 230V	182T
6008-1C2B1	5	1800	3 phase Exp. proof	184T
6008-1C7A1	5	1800	Single phase, 230V Exp. proof	213
6008-2C2B1	5	3450	Single phase 230/460V 60HZ Exp. proof	184T
6008-2C7A1	5	3450	Single phase, 115/230V 60HZ	215T
6009-1C2B1	7.5	1800	3 phase Exp. proof	213T, base mont
6009-2C2B1	7.5	3600	3 phase XP Motor	213T, base mount
6010-1C2B1	10	1750	3 phase 230/460V 60HZ	215T, Frame
6010-2C2B1	10	3540	3 phase 230/460V 60HZ	215T
6011-2C2B1	15	3600	XP Motor	256T
6013-1C2B1	25	1800	3 phase 230/460V XP Motor	284T
6037-2C1A1	3	3450	Single phase, 230V C-Face	-
6038-2C2B1	5	3600	3 phase 230/460V 60HZ C-Face	184T
6038-2C7A1	5	3600	Single phase 230/460V 60HZ C-Face	213T Frame
6039-2C2B1	7.5	3600	3 phase 230/460V 60HZ	213TC Frame
6040-2C2B1	10	3600	3 phase 230/460V 60HZ	215TC Frame
2557	3	-	C14 Coro-Flo Motor 50/60 HZ	-
4261	2	3600	220V Single phase, C-Face Coro-Flo Motor	-



bergquistinc.com

Krug Compressors and Hand Pumps

Tank Evacuation Vapor Compressor

Part No.	Engine Fuel	Inlet/Outlet
H50LPH	Propane	1/2" FNPT
H50GH	Gasoline	
760001	Compressor Only	

H50G



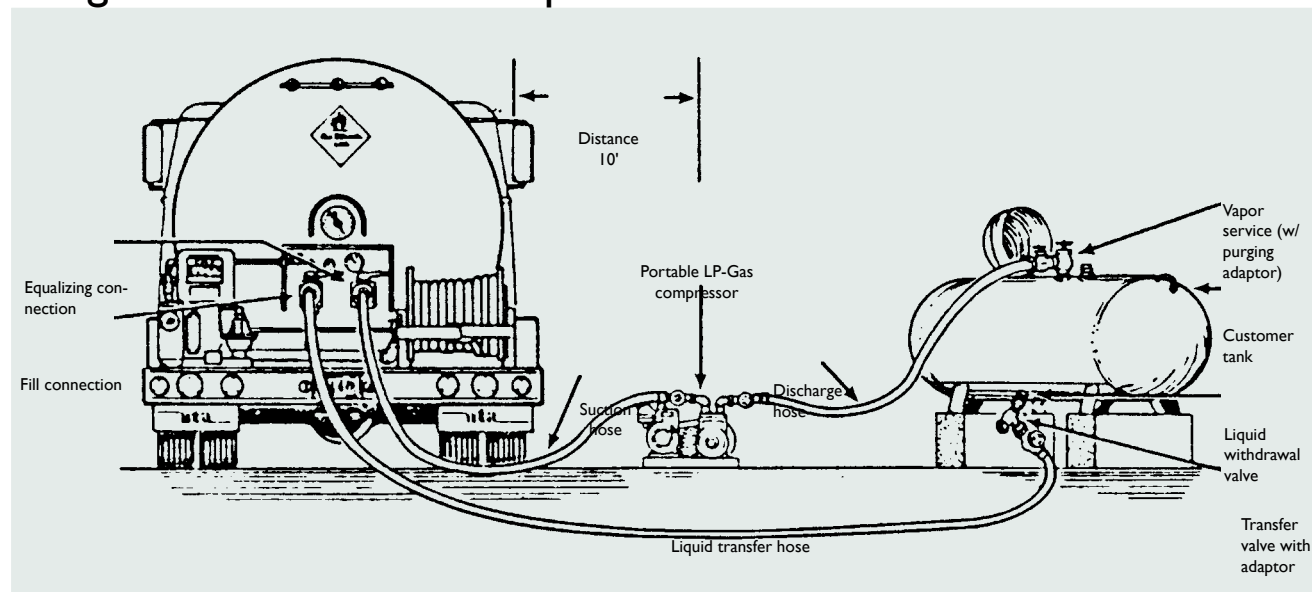
Krug Compressor Hose Kit

Part No.	Kit Contains
K-K2	<p>Vapor lines & connectors include:</p> <ul style="list-style-type: none"> 2 - 13ft 1/2" vapor hoses with 1/2 MNPT connections 2 - 1/2" ball valves 1 - 1 1/4" female acme coupling 1 - 1 3/4" female acme coupling 1 - 1 1/4" female acme x 1 3/4" male acme adaptor 1 - POL fitting with 1/4" brass elbow & 0-300 pressure gauge to monitor differential pressure between tanks <p>Liquid line & connectors include:</p> <ul style="list-style-type: none"> 25' of 3/4" liquid hose with 1 3/4" female acme couplings 1 - ME449 liquid transfer valve with adaptor

The Krug compressor transfers liquid by increasing vapor pressure in the tank being emptied, and decreasing vapor pressure on the tank being filled. A separate hose transfers the free flowing liquid.

Note: Check the compressor crankcase oil before each use. The compressor requires 5/8 of a pint of SAE 40 oil, 1" on the dipstick. Low or no oil may damage the compressor.

Using A Portable LP-Gas Compressor



Krug Hand Pump

Part No.	Inlet	Outlet
760002	1"	3/4"
M7A	Shaft packing only	

Simple piston hand pump for use in filling portable and motor fuel cylinders. Six gallon capacity at 40 strokes per minute.



Ventur-Evac

Evacuating a propane tank has never been easier



Part No.	Description
VENTUR-EVAC	Ventur-Evac Tank Evacuation Tool with 1-3/4" Acme connectors. Allows for tank evacuation using a bobtail pump. Creates 20 PSI pressure drop in suction line, Flows at 10 to 15 GPM with truck at idle speed. 3 Openings: - Truck tank - 1-3/4" Female Acme - Truck fill hose - 1-3/4" Male Acme - Evacuation hose - 1-3/4" Male Acme 7 lbs. ~ 14" OAL
VE HOSE KIT 25	Ventur-Evac 25' liquid and vapor hose kit with valves and fittings. Hose Kit for tank evacuation with the Ventur-Evac Liquid hose 25' x 3/4" w/ 1-3/4" Acme connectors Vapor hose 25' x 1/2" w/ 1-3/4" Acme connectors Evacuation tank valves included
VE Hose Kit 50	Ventur-Evac 50' liquid and vapor hose kit with valves and fittings. Hose kit for tank evacuation with the Ventur-Evac Liquid hose 50' x 3/4" w/ 1-3/4" Acme connectors Vapor hose 50' x 1/2" w/ 1-3/4" Acme connectors Evacuation tank valves included
1532R-0071	3/4" FPT OPW Visi-flo sight flow indicator, bi-directional
VE CASE	Ventur-Evac Pelican travel case fits hoses, valves and fitting

The VENTUR-EVAC is designed FOR the propane industry BY propane people. Evacuating a propane tank has never been easier. Weighing only 7 pounds, the VENTUR-EVAC is highly portable and easy to use. Reduce Labor Costs: Tank evacuations can now be performed by your delivery drivers while they are on their routes. By carrying the VENTUR-EVAC in the tool box of your bulk truck, additional service personnel are not required. Tank Overfills: Immediately remedy overfills by connecting the VENTUR-EVAC to remove excess gallons. No more calling back to the shop to dispatch service personnel for costly pump outs or flare offs. Gauge or Valve Repairs: Efficiently evacuate propane into the bulk truck for valve or gauge repairs. Accomplish this task with your drivers while making deliveries. Welded Steel Construction: The VENTUR-EVAC has no moving parts and no source of ignition. Flow Rate: The VENTUR-EVAC has up to a 15 GPM flow rate and will not activate the excess flow valve. Works in all Weather Conditions: The VENTUR-EVAC works great in both inclement and ideal weather conditions.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Neptune Liquid Meters, Neptune Registers

RL100108A12

neptune



Note: 3/4" and 1" meters are used in dispensers. Both have 3/4" FNPT flanges. The 1" meter is the newer version with higher volumn. Read the data plate to verify which meter you have.

Neptune Liquid Meters

Part Number	In/Out Size	Min/Max Gal/Min	Register	Temperature Compensation
RL100108A12, 1"	3/4" FNPT	3-18 GPM	600 (AAAAD)	No
RL100118A23	3/4" FNPT		600 (AAAAD)	Yes
RL12521RGD1	1 1/4" FNPT	5-30 GPM	833-0	
RL15021RGD1	1 1/2" FNPT	12-60 GPM		
RL20021RGD2	2" FNPT	20-100GPM		
RL2002N21RGD2*	2" FNPT			

* Ductile iron body, all others are aluminum

Common Neptune Replacement Parts

Meter Size	Gear Train	Chamber	Main Case Gasket	Differential Diaphragm	Strainer
3/4"	080905-012	042075-101	004861-016	100028-001*	087185-000
1"	080905-017	001748-001	004861-016	100028-001*	101738-001
1 1/4"	083501-000	043260-101	004862-008	1000624	101433-704
1 1/2"	084981-000	083271-101			
2"	083502-000	045806-101			101405-004

* Replacement differential valve

Note: More parts available, check with inside sales

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Veeder-Root, Neptune Registers

(cont. next page)



Neptune 600 Series Mechanical RegistersThe 600 series Register is mechanically driven designed for easy adaptation to a local or remote batching and recording system. The 600 series register offers a 5 digit delivery quantity reset similar to the Models 831/841 and an 8 digit non-resettable totalizer. It is fully mechanical and does not offer mechanical preset or ticket printing options.

600 Series Register Features

- Five digit roller type reset wheels, with 3/4" numerals for ease in reading up to 10-15 feet away
- Eight small non-resettable totalizing wheels mounted at the top right of the register front serve as an odometer
- Low profile for ease in retro fit installations
- Light weight, heavy gauge steel outer casing
- Ability to mount all digital and analog pulse transmitters, calibrated output
- Available in US and Imperial gallons, litres, decalitres, pounds and kilograms

Neptune 800 Series Mechanical Registers
The 800 series register is the latest of four multi-function devices specifically designed for petroleum distribution and industrial process industries. Some models allow automatic preset deliveries via mechanical valve and Weights and Measures approved ticket printing.

Models

The 800 Series Registers consist of the Model 830 Series and the Model 840 Series. Model 830 Series registers are in tenths and the Model 840 Series registers are in units.

Models 831 and 841 are direct reading resettable registers with the basic non-resettable totalizer.

Models 832 and 842 are the basic 830 and 840 features plus a preset register that provides automatic deliveries. The operator sets the register for the desired quantity from the front panel. The flow will cut off automatically at the exact volume desired when used in conjunction with either a mechanical valve or a solenoid actuated valve. There are two preset models available, a single trip for one stage shutoff or a double trip for two stage shutoff (delivery decreases, then the final shutoff stops the delivery).

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Veeder-Root, Neptune Registers (cont.)

880030-000



Models 833 and 843 are the basic 830 and 840 features plus a printer register that prints a receipt or ticket showing the readings before and after delivery. The register locks the ticket during delivery to prevent fraud. Providing two letter wheels in the register makes it possible to print a letter code on the ticket to identify the flowmeter or truck. These letter wheels can print any single letter or combination of two letters from A to J, omitting I. Additionally, three serial number wheels are provided in the register to number each ticket consecutively from 000 to 999. There are four printer models available:

- Accumulative Face Up (most commonly used): Prints beginning reading and the final reading
- Accumulative Face Down (for outside use): Prints beginning reading and the final reading
- Zero Start Face Up (for larger deliveries): Prints all zeros and the actual delivery
- Zero Start Face Down (for larger deliveries): Prints all zeros and the actual delivery

Models 834 and 844 are printer-preset registers that combine the features of the other registers. They contain the preset quantity control plus the printed ticket features.

800 Series Register Features

- Standard eight digit non-resettable totalizer, five digit delivery display, four preset and five or six digit printer
- Measurement in Gallons, tenths of gallons, litres, dekalitres, pounds and kilograms
- High visibility $\frac{3}{4}$ " wheels
- Long life, precision die cast Zamac printer wheels provide clear, sharp, easy to read tickets
- Exchange Register Program

Bergquist offers an exchange program where you can trade in an old 433, 600 or 800 series register for a rebuilt unit. This program is an economical way to refurbish your registers.

Neptune Registers

Part Number	Model	Description
100498-009	600AEAAD	Reset register, 3/4" 4D only
100498-016	600AAAAD	Reset register, 3/4" 4D only
100198-018	600AAAF	Reset register, 1" 4D with ATC only
601010-000	n/a	Electronic register, 1" RL100
880010-025	831-00	Reset register 1 1/4" - 2"
880030-000	833-0	Reset register 1 1/4" - 2"
833EXCH	833-0	Reset register 1 1/4" - 2", Rebuilt

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Positive Displacement Meter, LectroCount Register



POSITIVE DISPLACEMENT
METER MA-7

Positive Displacement Meter - MA7

A new standard for LPG custody transfer accuracy. No metal-to-metal contact provides the longest, most reliable service in the industry. Compact, cost efficient package offers greater mounting flexibility. Accessories include vapor eliminator and strainer with 100-mesh or 200-mesh screen, diaphragm valve, choice of mechanical or electronic registration with optional temperature/volume compensation.

MA-7 Meters in class 10 construction are designed for LPG truck and bulk loading applications (UL Listed):

- Capacity: 100 GPM (380 L/min.)
Class 12 construction for NH3 (Anhydrous Ammonia) service available upon request.
- Choice of 2" NPT standard, 1 1/2" optional companion flanges.



LectroCount TM
ELECTRONIC REGISTER

LectroCount is an electronic register that replaces the mechanical register, calibration gears and/or adjuster mechanism traditionally used on many flow meters.

Weights & Measures (custody transfer) approved advanced microprocessor based electronic registration, presetting and printing control systems. LectroCount is designed to meet - even adapt to - your flow meter and process control instrumentation requirements. Units are rated NEMA-4 non-incendive Class 1, Division 2, Group C & D. LectroCount accepts pulse input from most flow meters and includes RS232.485 communications capability.

Power Requirements

- LectroCount LC³, +10 - 18 VDC
- LectroCount LCR-II, +9 - 28 VDCik

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Veeder-Root, Neptune, Mid:Com Electronic Registers



The Neptune E4000 electronic register automates transaction operations for deliveries of LPG, distillate fuels, and other commercially distributed liquids through flow meters on bulk delivery trucks. Designed for compatibility with emerging automation technologies, the E4000 offers the ability to modernize truck metering operations today and provides a platform for data collection technology tomorrow. Its improved accuracy and efficiency mean less loss, providing a fast return on investment and safeguarding future profits.

Smarter Today...

- Easy to use, menu driven display
- Start with simple pump and print (imitate your mechanical register)
- Electronic temperature compensation (accurate, rapid response)
- Stand-alone pricing (print invoices directly from the truck)
- Ten products, ten prices
- Configure register from laptop computer

Smarter Tomorrow...

- Add data collection devices (hand held, laptop, wireless) without the need for additional register hardware.
- No requirement for early commitment to proprietary technology.
- Interface with popular industry office software packages.

Veeder-Root Registers

Part No.	New/Remanufactured	Reset Knob Location
789002-002	New	Right
R789002-002	Remanufactured	Right
789022-701	New	Left
R789022-071	Remanufactured	Left

Neptune — Veeder-Root Conversion Adapters

Part No.	Description
117900-233	Adapter for 1 1/4" thru 2" Neptune w/Temperature Compensation
G310450-422	Gear Plate for 1 1/4" thru 2" Neptune Meter w/ Temperature Compensation

Standard Features:

- 99 Products - each with a custom product label, price, two taxes, cash discount and two special charges
- Preset deliveries made by volume or price
- Unlimited presets on each delivery
- Pulse input
- Pulse output
- Backlit display
- 2 auxiliary inputs
- 4 auxiliary outputs
- I/O customized software available
- Volume displayed in Gallons or Litres
- Mass displayed in Pounds or Kilograms
- Display can also show flow rate and total
- Whole unit or 1/10th
- Auto calibration
- Serial port for peripheral connections



E:Count

New E:Count LT Register - rated Class 1 Div 1 - can be used anywhere, including bulk plants.



789002-002

Remanufactured registers may be purchased or be part of the register exchange program; we send you a remanufactured register and you return the old register for a core credit.

A gear plate, adapter and register are needed for conversion

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

VEEDER-ROOT
Petroleum Products



8000 COMPUTER PRINTER

Mid:Com 8000...adapts to all liquid meters.

This New Generation of computer registers makes the job of recording deliveries a snap.

The programed RAM card holds customer information as well as the days deliveries. All the information on this card can be transferred directly into your branch computer each night. The RAM card is about the size of a credit card, it holds an unprecedented 512K of memory to provide hundreds of deliveries with multiple data items.

The new 8000 also sports a new printer. Tested and proven in the Mid:Com 6501B, this printer is designed and built for varying requirements of the customer. Of Dot Matrix design, it prints equally well on 2-part or 5-part tickets of NCR or carbon paper copies. Operators find the Mid:Com 8000 easy to operate day after day, or once in a while. The in-cab display directs the operator to the next move or procedure, eliminating confusion.



ROAD WARRIOR

Road Warrior is the newest on-board computer from Mid:Com. It provides many features and functions that were not available from earlier generations of our computers. The Operating System is Windows CE 5.0 which makes it compatible with many other devices. Readability for the driver is enhanced with a 7" wide screen graphical color display. Account look-up has never been easier with a full alphanumeric keyboard that is sealed from the elements, but offers a tactile response. Accounts can be accessed by Account #, Name, Tank #, Address or Street, Driver #, Route or Notes. Two way communications to other devices via multiple built-in USB or Serial Ports, or Ethernet and CANbus.

Road Warrior is not a general purpose computer, it is built to be an extremely rugged special purpose computer from the one company that has been building on-board systems for trucks since 1975. Mid:Com.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Invensys Vapor Meters and Meter Equipment

Invensys Vapor Meters

Part No.	Temperature Compensated	Max. Pressure	Capacity at 11" WC, Btu	Connections
S275B CU	Yes	5 psig	388,000 Btu	Side, 3/4" FNPT
S275B CU(00)				
S275 GAL		10 psig	650,000 Btu	Top, 1 1/4" MNPT
415				
TC750		20 psig	1,875,000	



S275BCU

Notes:

- 1) All meters read in standard cubic feet, except the S-275 GAL which reads in gallons. SCF must be used if invoicing from the meter reading.
- 2) A second stage regulator should be installed directly before the meter, to read SCF at 11" WC. A pressure multiplier must be used if a pressure different from 11" WC is used. Contact inside sales.
- 3) Be aware most direct read indexes have one or two constant zeros at the end of the reading. This constant is stamped on the index.

Mounting bracket kit (00163-555-15000). Mounting brackets come on meters with model numbers that end with 'B'

Side inlet & outlet.



HC7



METER SEAL

Vapor Meter Equipment

Part Number	Description
HC7	HC7 seal press for meter wire
Blank Die	Blank die for HC7 seal press for meter wire
Meter Seal	1/2 lead meter seal with 16 inch wire for press
Lead Seal	1/2 lead only
PMB	Post for mounting S275B meter
GS22	1/2" 150# insulated threaded union
GS33	3/4" 150# insulated threaded union
GS44	1" 150# insulated threaded union
GS55	1 1/4" 150# insulated threaded union
GS77	2" 150# insulated threaded union
240-003B	1/2" FPT meter stop locking shut off valve, brass
240-004B	3/4" FPT meter stop locking shut off valve, brass
241-004B	3/4" FPT meter stop locking shut off valve, brass with dielectric union
240970	#4 Barrell lock with end cap cadmium plated for meter stops
240975	#4 barrel lock key modified



241-004B



GS22

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Hannay Reels and Reel Parts



bergquistinc.com



17.0060

Junction Boxes

Part No.	Description
17.0060	Round Junction Box
17.0030	Square Junction Box



Circuit Breakers



17.0021

Circuit Breakers

Part No	Description
17.0021	50 Amp Breaker
17.0022	70 Amp Breaker
17.0024	CB-2 Bracket
17.0025	12 Volt Solenoid

Since 1933 Hannay Reels has set the standard for quality, service, and delivery. The modern state-of-the-art facility in Westerlo, New York produces over 70,000 reels a year, ranging in size from hand portables to reels over 12 feet in. length. The propane delivery reels are now produced in standard painted steel, polished aluminum, or unpolished 304 sst.



CB-2 (17.0024)

Things to consider when ordering a new reel;

- 1) Capacity - how many feet of 1" hose do you want on the reel. Typical lengths are 100', 125', and 150' (125' is the most common).
- 2) Which side do you want the 1 1/2" inlet and 12 volt motor located on? (as you look at the reel).
- 3) Do you want an auxillary hand crank?
- 4) Do you want any roller assemblies?
- 5) Would you like the reel to be top wind or bottom wind?
- 6) Would you like a Guidemaster installed?

Notes: 1.) If you have the model and serial number of a reel you now have and like, Hannay can duplicate it.

- 2.) "Spool Assembly"...If you want the disc & drum width brackets to fit your old reel, order a spool assembly by model and serial number. Specify how complete you want the assembly - then just drop it in the old frame and piping.



17.0025

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Operating Switches For Electric Rewind Reels

Part No.	Description
17.0001	Switch Complete - 12 Volt
17.0014	Internal Switch
17.0150	Red Dot Cover/Plunger Assembly



EXPB-2A



EPS-I (NEW STYLE)

Part No.	Description
17.0200	New EPS-I Switch Complete
17.0207	Bracket New EPS-I GM700
17.0205	Bracket (Old) EPS-3 GM600
17.0208	Top Side Universal Bracket
17.0004	Capped Push Button Switch
17.0008	Rubber Cap Only



Swivel Joint Repair Kits

Part No.	Description
SMAC-112SK	Repair Kit SMAC112
SMAC-200SK	Repair Kit SMAC200
36.0643	1 1/2" & 2" Hannay Kit
36.0630	1 1/2" Chicksan Kit
36.0730	2" Chicksan Kit
36.0042	54 Ball Bearings, 1 1/2" Chicksan
38.0044	48 Ball Bearings, 2" Chicksan



SMAC 112

Swivel Joint

Part No.	Description
SMAC112	1 1/2, 90° Swivel Joint
SMAC112ST	1 1/2, Straight Swivel
SMAC200	2", 90° Swivel Joint
SMAC200ST	2", Straight Swivel

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



39.0060



39.0041

Roller Assemblies

Part No.	Description
39.0041	FH338 Roller and Spool
39.0060	Assembly A Straight Roller

Note: Both rollers are stocked at the maximum length - cut to fit your reel. Parts available



2.1400



2.1610



54.0022

Bearings

Part No.	Description
2.1400	Back bearing w/ Bracket
2.1500	Back Bearing Only
2.1610	Front Bearing w/Bracket
2.1700	Front Bearing only
54.0022	1-1/2" Hub Space Washer



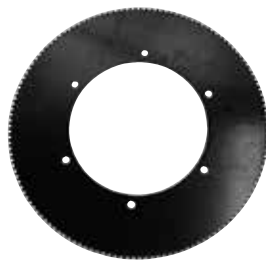
bergquistinc.com



Sprockets, Motors, Chain and Links

	Part No.	Chain Type	Description	
Motors	15.0003	#35	12V DC 1/2 HP 650 RPM Motor 5/8" Shaft	Flange Mount
	15.0013			Base Mount Motor
	15.0003A			Flange Mount w/ 1 5/16" sprocket
	15.0009	#40 Heavy Duty	12V DC 2/3 HP 500 RPM Motor 5/8" Shaft	Flange Mount
Chain & Links	12.0001	#35	10 ft. Chain with Connecting link	
	12.0010		Connecting Link	
	12.0063	#40 Heavy Duty	4.5 ft. Chain with Connecting Link	
	12.0009		Connecting Link	
	12.0016		Half Link	
Sprockets	10.1118	#35	Motor Sprocket 11 Tooth 5/8" Shaft 1 5/16" Long	
	10.1119		Motor Sprocket 11 Tooth 5/8" Shaft 1 3/4" Long	
	10.1116		Motor Sprocket 11 Tooth 5/8" Shaft 3/4" Long	
	10.1423		Drum Sprocket 138 Tooth	
	10.0917	#40 Heavy Duty	Motor Sprocket 9 Tooth 1 5/16" Long	
	10.3121		Drum Sprocket 104 Tooth	

Note - Upgrade kit to heavy duty chain #40 (part number 20.3001) includes disc, motor sprockets, chain, carriage bolts & nuts as needed. Must specify model and serial number of reel being upgraded. Does not include motor.



10.1423



15.0003A



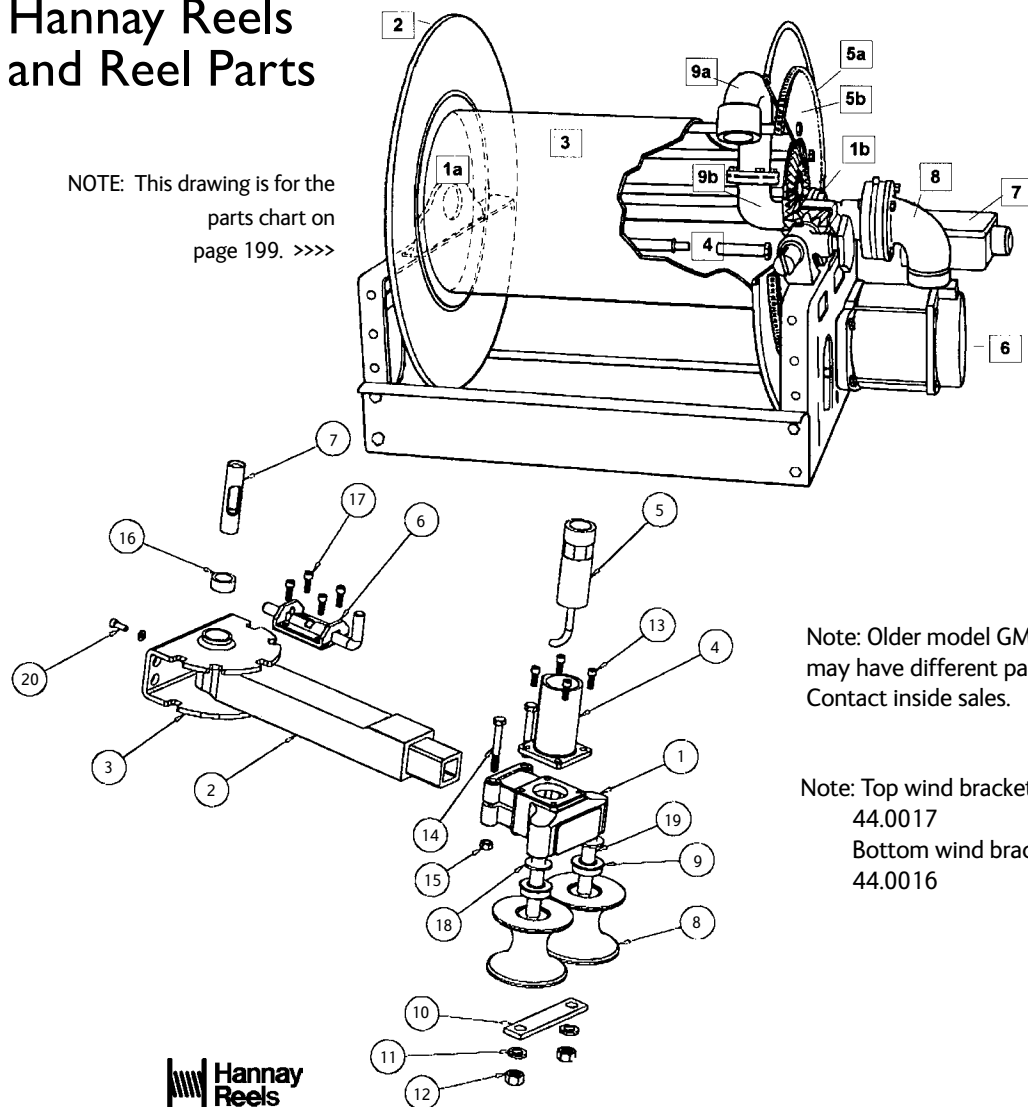
38.0051
14 OZ. TUBE
OF GREASE

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Hannay Reels and Reel Parts



NOTE: This drawing is for the parts chart on page 199. >>>



Note: Older model GM-600 may have different parts. Contact inside sales.

Note: Top wind bracket
44.0017
Bottom wind bracket
44.0016



Part Number	Drawing No.	Description	Quantity
45.1001	1	Roller Body Casting w/Mounting Bolts (for GM-700)	1
45.1002	2	Guide Arm Casting (for GM-700)	1
45.0009	3	Mounting Yoke with Bronze Bushings	1
17.0207	4	Switch Mounting Bracket (for GM-700)	1
17.0200	5	EPS-1 Explosion-Proof Switch	1
45.1003	6	Guidemaster Pinlock Assembly, S/S (GM-700)	1
45.0024	7	SST Pivot Pin (with 1/4" cap screw and lock washer)	1
45.0019	8	GM-609 Roller (with 2 Pressed-in Ball Bearings)	2
45.0026	9	GM-608 Ball Bearing	4
45.1004	10	Guidemaster Bottom Roller Plate (for GM-700)	1
54.0030	11	1/2" Lock Washer	2
54.0036	12	1/2"-13 Hex Nut	2
45.0015	13	1/4"-20 x 3/4" Socket Head Cap Screw	4
45.0013	14	5/16-24 x 2 1/2" Plater Bolt with Nut	2
45.0027	15	5/16"- Hex Nut	2
45.0011	16	Oil-impregnated Bronze Bushing for Yoke	2
45.0015	17	1/4"-20 x 3/4" SST Socket Head Cap Screw	4
54.0008	18	1/2" Flat Washer	2
45.1005	19	Roller Mounting bolt (threaded) for GM-700	2
45.0055	20	1/4"-20 x 5/8" SST Socket Head Cap Screw and Lock Washer	2



bergquistinc.com

Hannay Parts



#1 Bearings	
1a Back Bearing	2.1400 Bearing complete w/bracket
	2.1500 Bearing only
1b Front Bearing	2.1610 Bearing complete w/bracket
	2.1700 Bearing only
#2 Disc	
2	Call for assistance. Need model # of reel or diameter of disc.
#3 Drum	
3	Call for assistance. Need model # of reel or length of drum.
#4 Carriage Bolts w/nuts	
4 Sized 1 2/2" OAL longer than drum length.	4.0226 15" long
	4.0229 17" long
	4.0232 19" long
	4.0235 21 1/2" long
	4.0238 23 1/2" long
#5 Chain/Sprocket	
5a Chain	12.0001 #35 Chain w/link
	12.0009 #40 Chain connect link
	12.0010 #35 Chain connect link
	12.0016 #40 Half Link
	12.0063 #40 Chain 4.5 ft use with 104T sprocket on pressed frame
5b Sprocket/Drive	10.1423 138 tooth sprocket
	10.3121 104 tooth sprocket, 16.65" diameter
5 Sprocket/Motor (Not Shown)	10.1011 9 tooth x 1" long...1/2" shaft
	10.1116 11 tooth x 3/4" long...5/8" shaft
	10.1117 11 tooth x 1 1/6" long...5/8" shaft
	10.1118 11 tooth x 1 5/16" long...5/8" shaft
	10.1119 11 tooth x 1 3/4" long...5/8" shaft
	10.0917 9 tooth, #40 chain sprocket, 1 5/16" long
#6 Motor	
6 Motor	15.0003A Flange mount, 1/2 HP w/sprocket
	15.0009 SX-043 12V DC Flange mount, 2/3 HP 500 RPM, SS shaft
	15.0013 Base mount, 1/2 HP, without sprocket
	16.0070 Set of 2 brushes
#7 Junction Box	
7 Junction Box	17.0030 Junction box - complete - square
	17.0060 Junction box - complete - new style
#8 Swivel Joint	
8 Swivel Joint	SMAC112ST 1 1/2" Straight (Smith)
	SMAC112 1 1/2" 90 Ell (Smith)
	31.4521 2" 90 Ell (Hannay)
	112 Roto Seal
	SMAC112 1 1/2" 90 Ell (Smith)
	SMAC112ST 1 1/2" Straight (Smith)
	SMAC200 2" 90 Ell (Smith)
	SMAC200ST 2" Straight (Smith)
8 Swivel Joint Repair Kit	36.0630 1 1/2" Chicksan
	36.0643 1 1/2" & 2" Buna N Pac/ for LP only
	36.0730 2" Chicksan
#9 Hub Assembly	
9a Hub Riser	1.2460 1" FNPT
	65.0021 Riser gasket
9b Hub (see insert at left)	1.3640A 13 1/2" B dimention
	1.3640B 15 1/2" B dimention
	1.3640C 17 1/2" B dimention
	1.3640D 20" B dimention
	1.3640E 22" B dimention

Carburetion Equipment (cont. next page)



CA300A50-2

PRIMARILY USED ON DUAL-FUEL APPLICATIONS

Impco Dual Fuel Mixers

CT425M2

TAMPER RESISTANT



Mixer Subassemblies



AV1-16-2



AD1-28

Converters

2504A



EB2



SV



200

Equipment and parts by Impco, Century, Garretson, Beam, J&S, and Gann. Complete conversion kits available.

Impco Dual Fuel Mixers

Part Number	Description
CA300A-20M-2	Mixer/Dual Fuel
CA300A50-2	Mixer/Dual Fuel
CA300AM-70-2	Mixer/Dual Fuel
CT425M2	Propane Only

Mixer Subassemblies

Part Number	Description
ADI-28	Idle Diaphragm for CA and CT 425 Mixer
AVI-16-2	Air Valve and Diaphragm for CA and CT 425

Converters

Part Number	Description
EB2	IMPCO Converter 325 H.P.
JB-2	IMPCO Converter 100 H.P.
LB-2	IMPCO Converter 325 H.P.
1477B	Century Model "H", 136 H.P. Max.
2335B	Century Model "G85", 85 H.P. Max
2504A	Century Model "M6", 350 H.P. Max
SV	IMPCO Start Assist Valve Subassembly

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Carburetion Equipment (cont.)

Fuellocks

Part Number	Description
VFF30-2	IMPCO Filter/Fuellock 325 H.P. (Propane)
ET98-50362-001	Century 12 Volt Fuellock (Propane)
2314	Century 12 Volt Gasoline Fuellock

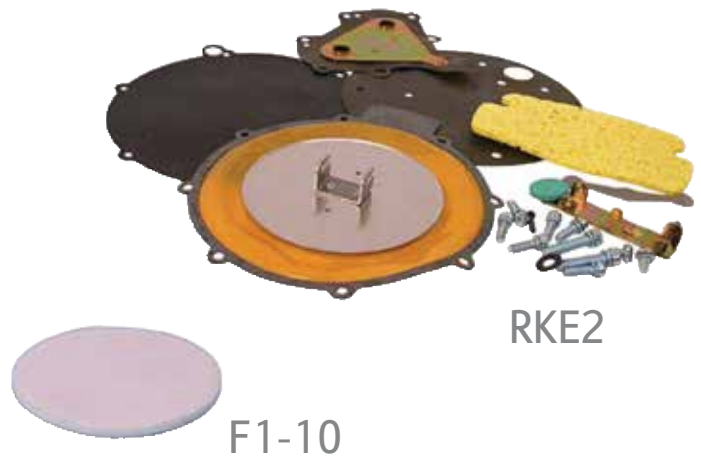


VFF30-2

Impco Repair Kits

Part Number	Description
F1-10	VFF30-2 Replacement Filter
RKVFF30-2	VFF30 Series Repair Kit
RKE2	Model "E" Converter Kit
RKJ2	Model "J" Converter Kit
RKL2	Model "L" Converter Kit
RK300MI-1/20-2	Minor Kit
RK300MI-50-2	Minor Kit
RK300MA-1/20-2	Major Kit
RK300MA-50/70-2	Major Kit

Impco Repair Kits



RKE2

F1-10

Century Repair Kits

Part Number	Description
286-1794	Model 2384B Filter Kit
286-1301	Model "H" Minor Kit
286-1332	Model "M5" Minor Kit
286-1554	Model "G85" Minor Kit
286-1688	Model "M6" Minor Kit
323-529	12 Volt coil 2384 assembly

Century Repair Kits



286-1794

Misc. Carburetion Equipment

Part Number	Description
#6	5/16" Steel Braid Liquid Fuel Line
VH100	1" Vapor Carb Hoe "Skunk Hose"
TB2	Horizontal Bracket, 33#43#
TB2-60	Toggle Nut and Washer

Misc. Carburetion Equipment



#6

VH100

TB2

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Acme Adapters



bergquistinc.com



ME503-16



Brass Male Acme
X MNPT Adapters

Marshall Excelsior Part No.	Description
ME498-4/2*	1 1/4" M. Acme x 1/2" MNPT x 1/4" FNPT Adapter
ME498-6/3*	1 1/4" M. Acme x 3/4" MNPT x 3/8" FNPT Adapter
ME215	1 3/4" M. Acme x 3/4" MNPT Adapter
ME216	1 3/4" M. Acme x 1 MNPT Adapter
ME217	1 3/4" M. Acme x 1 1/4" MNPT Adapter
ME233	2 1/4" M. Acme x 1 1/4" MNPT Adapter
ME502-12/8*	2 1/4" M. Acme x 1 1/2" MNPT x 1" FNPT Adapter
ME502-16/10*	2 1/4" M. Acme x 1 1/4" FNPT x 2" MNPT Adapter
ME502-16/12*	2 1/4" M. Acme x 1 1/2" FNPT x 2" MNPT Adapter
ME503-16	3 1/4" M. Acme x 2" MNPT Adapter
ME262	3 1/4" M. Acme x 3" MNPT Adapter

*Dual thread Male outside / Female inside

ME503JB-16



Acme Adapters
With Vent Valves



Part No.	Description
ME252J-16	3 1/4" M. Acme x 2" FPT (Brass) with 1/4" FPT and vent hole
ME252JB-16	3 1/4" M. Acme x 2" FPT (Brass) with brass vent valve
ME252JS-16	3 1/4" M. Acme x 2" FPT (Brass) with stainless steel vent
ME252SJ-16	3 1/4" M. Acme x 2" FPT (Zinc Plated Steel) with 1/4" FPT and vent hole
ME252SJB-16	3 1/4" M. Acme x 2" FPT (Zinc Plated Steel) with brass vent valve
ME252SJS-16	3 1/4" M. Acme x 2" FPT (Zinc Plated Steel) with stainless steel vent valve
ME503J-16	3 1/4" M. Acme x 2" MPT (Brass) with 1/4" FPT and vent hole
ME503JB-16	3 1/4" M. Acme x 2" MPT (Brass) with brass vent valve
ME503JS-16	3 1/4" M. Acme x 2" MPT (Brass) with stainless steel vent valve
ME503SJ-16	3 1/4" M. Acme x 2" MPT (Zinc Plated Steel) with 1/4" FPT and vent hole
ME503SJB-16	3 1/4" M. Acme x 2" MPT (Zinc Plated Steel) with with brass vent valve
ME503SJS-16	3 1/4" M. Acme x 2" MPT (Zinc Plated Steel) with stainless steel vent valve



bergquistinc.com

Acme Adapters

Marshall Excelsior Part No.	Description
ME192	1 1/4" M. Acme x 1/2" FNPT Adapter
ME193	1 1/4" M. Acme x 3/4" FNPT Adapter
ME210	1 3/4" M. Acme x 1/4" FNPT Adapter
ME211	1 3/4" M. Acme x 3/8" FNPT Adapter
ME212	1 3/4" M. Acme x 1/2" FNPT Adapter
ME213	1 3/4" M. Acme x 3/4" FNPT Adapter
ME214	1 3/4" M. Acme x 1" FNPT Adapter
ME250	3 1/4" M. Acme x 1 1/4" FNPT Adapter
ME251	3 1/4" M. Acme x 1 1/2" FNPT Adapter
ME252	3 1/4" M. Acme x 2" FNPT Adapter
ME498-4/2*	1 1/4" M. Acme x 1/4" FNPT x 1/2" MNPT Adapter
ME498-6/3*	1 1/4" M. Acme x 3/8" FNPT x 3/4" MNPT Adapter
ME502-12/8*	2 1/4" M. Acme x 1 FNPT x 1 1/2" MNPT Adapter
ME502-16/10*	2 1/4" M. Acme x 1 1/4" FNPT x 2" MNPT Adapter
ME502-16/12*	2 1/4" M. Acme x 2" MPNT x 1 1/2" FNPT Adapter
ME508-24	3 1/4" M. Acme x 3" FNPT Adapter

Brass Male Acme
X FNPT Adapters



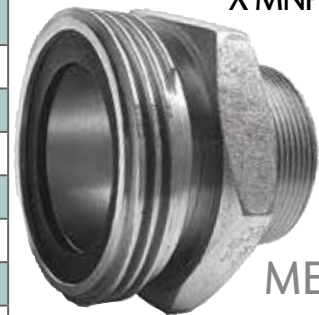
ME252

* Dual Threads -
Male outside / Female inside



Marshall Excelsior Part No.	Description
ME520S-8	1 1/4" M Acme x 1" MNPT
ME215S	1 3/4" M Acme x 3/4" MNPT
ME216S	1 3/4" M Acme x 1" MNPT
ME217S	1 3/4" M Acme x 1 1/4" MNPT
ME233S	2 1/4" M Acme x 1 1/4" MNPT
ME503S-16	3 1/4" M Acme x 2" MNPT
ME262S	3 1/4" M Acme x 3" MNPT

Steel Male Acme
X MNPT Adapters



ME503S-16

Marshall Excelsior Part No.	Description
ME213S	1 3/4" M Acme x 3/4" FNPT
ME214S	1 3/4" M Acme x 1" FNPT
ME502S-16/10*	2 1/4" M Acme x 1 1/4" FNPT x 2" MNPT
ME252S-16	3 1/4" M Acme x 2" FNPT
ME508S-24	3 1/4" M Acme x 3" FNPT

Steel Male Acme
X FNPT Adapters



ME252S-16
203

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

3 1/4" M. Acme Conical Filter Screen



bergquistinc.com

MEP503-16
(not included)



MEP503K
(installed)



MEP503

Application:

Provides a low cost and effective means to filter both truck and plant liquid inlet lines equipped with 3 1/4" M. Acme fittings. This screen is easily removed without discharge of product and can be cleaned then reinstalled in minutes.

Features:

Reinforced perforated stainless steel body and retainer lip

30 Mesh stainless steel inner filter screen

All welded construction

Part No.	Description
MEP503	3 1/4" M. Acme Conical Filter Screen Only, 30 Mesh, SS
MEP503K	3 1/4" M. Acme Conical Filter Screen and Retainer Clip Kit, 30 Mesh, SS

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Acme Adapters and Acme Couplings

Acme Adapters with Strainer Screen

Part No.	Description
ME503A-16	3 1/4" M Acme x 2" MNPT
ME262A	3 1/4" M Acme x 3" MNPT
ME250A	3 1/4" M Acme x 1 1/4" FNPT
ME251A	3 1/4" M Acme x 1 1/2" FNPT
ME252A-16	3 1/4" M Acme x 2" FNPT
ME508A-24	3 1/4" M Acme x 3" FNPT
ME251-02	Replacement screen for adaptors
ME251-03	Replacement snap ring for screen



ME252A-16



Brass Filler Couplings

Marshall Excelsior Part No.	Type of Acme Nut	Description
ME100	Knurled Brass Nut	1 1/4" F Acme x 3/8" MNPT
ME101		1 1/4" F Acme x 1/2" MNPT
ME110		1 3/4" F Acme x 1/2" MNPT
ME111		1 3/4" F Acme x 3/4" MNPT
ME112		1 3/4" F Acme x 1" MNPT
ME110C	EZ Grip Brass Nut	1 3/4" F Acme x 1/2" MNPT
ME111C		1 3/4" F Acme x 3/4" MNPT
ME112C		1 3/4" F Acme x 1" MNPT
ME120S		2 1/4" F Acme x 1 1/4" MNPT - Steel Nipple
ME130B		3 1/4" F Acme x 2" MNPT - Brass Nipple
ME130		3 1/4" F Acme x 2" MNPT - Steel Nipple
ME135	Brass Nut w/ Blow Down Line	3 1/4" F Acme x 2" MNPT
ME135S	Steel Nut w/ Blow Down Line	3 1/4" F Acme x 2" MNPT



ME120

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Acme Couplings



bergquistinc.com



ME121S



ME112S



ME635-6

Steel Filler Couplings

Marshall Excelsior Part No.	Type of Acme Nut	Description
ME635-4	Heavy Duty Grip Steel	1 3/4" F Acme x 1/2" MNPT
ME635-6		1 3/4" F Acme x 3/4" MNPT
ME635-8		1 3/4" F Acme x 1" MNPT
ME635-10		1 3/4" F Acme x 1 1/4" MNPT
ME111S	Knurled Steel	1 3/4" F Acme x 3/4" MNPT
ME112S		1 3/4" F Acme x 1" MNPT
ME111SC	EZ Grip Steel	1 3/4" F Acme x 3/4" MNPT
ME112SC		1 3/4" F Acme x 1" MNPT
ME113SC		1 3/4" F Acme x 3/4" FMNPT
ME121S		2 1/4" F Acme x 1 1/4" MNPT
ME130S		3 1/4" F Acme x 2" MNPT

Brass Vapor Couplings

Marshall Excelsior Part No.	Description
ME140	1 1/4" F Acme x 3/8" MNPT Vapor Return
ME141	1 1/4" F Acme x 1/2" MNPT Vapor Return
ME150	1 3/4" F Acme x 3/4" MNPT Vapor Return
ME151	1 3/4" F Acme x 1" MNPT Vapor Return
ME160	2 1/4" F Acme x 1 1/4" MNPT Vapor Return - Brass Nut/Steel Nipple



ME141



Steel Vapor Couplings

Marshall Excelsior Part No.	Description
ME141S	1 1/4" F Acme x 1/2" MNPT Vapor Return Coupling
ME646-4	1 3/4" F Acme x 1/2" MNPT Vapor Return Coupling - 7" O.A.L.
ME646-6	1 3/4" F Acme x 3/4" MNPT Vapor Return Coupling - 7" O.A.L.
ME646-8	1 3/4" F Acme x 1" MNPT Vapor Return Coupling - 7" O.A.L.
ME151S	1 3/4" F Acme x 1" MNPT Vapor Return Coupling - 3 1/4" O.A.L.
ME160S	2 1/4" F Acme x 1 1/4" MNPT Vapor Return Coupling - 3 3/8" O.A.L.



bergquistinc.com

Acme Adapters and Adapter Caps

Brass Male Acme Adapters

Marshall Excelsior Part No.	Description
ME270	1 1/4" M. Acme x 1 1/4" M. Acme
ME273	1 3/4" M. Acme x 1 3/4" M. Acme
ME275	2 1/4" M. Acme x 2 1/4" M. Acme
ME277	3 1/4" M. Acme x 3 1/4" M. Acme

ME273S



Steel Male Acme Adapter

Marshall Excelsior Part No.	Description
ME273S	1 3/4" M. Acme x 1 3/4" M. Acme
ME275S	2 1/4" M. Acme x 2 1/4" M. Acme
ME277S	3 1/4" M. Acme x 3 1/4" M. Acme



Adapter Caps



ME612

Brass Adapter Caps

Marshall Excelsior Part No.	Description
ME611	2 1/4" F. Acme x 1 3/4" M. Acme
ME612	3 1/4" F. Acme x 1 3/4" M. Acme
ME442	3 1/4" F. Acme x 1 1/4" FNPT
ME614	3 1/4" F. Acme x 2 1/4" M. Acme

Steel Adapter Caps

Marshall Excelsior Part No.	Description
ME611S	2 1/4" F. Acme x 1 3/4" M. Acme Adapter
ME612S	3 1/4" F. Acme x 1 3/4" M. Acme Adapter
ME442S	3 1/4" F. Acme x 1 1/4" FNPT Adapter



ME442S

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Acme Caps with Flange

Acme Caps and Dust Plugs



ME441F8



Flange

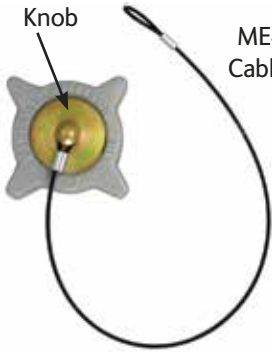
The flange allows for easy operation of pneumatic or proximity interlock switches which control the safety systems of transport vehicles. The stainless steel flange is flush mounted to the Acme cap.

Part No.						F. Acme	Style	Flange Diameter	Accessory	
Brass			Steel *						Chain Only	Cable Only
Cap with Flange	Cap with Flange & Chain	Cap with Flange & Cable	Cap with Flange	Cap with Flange & Chain	Cap with Flange & Cable					
ME229F5	ME229F5-1	ME229F5-1C	ME229FS5	ME229FS5-1	ME229FS5-1C	1-3/4"	Knob	5"	MEP167	MEP168
ME441F8	ME441F8-1	ME441F8-1C	ME441FS8	ME441FS8-1	ME441FS8-1C	3-1/4"	Knob	8"	MEP167	MEP168
ME441R8	ME441R8-1	—	—	—	—	3-1/4"	Tapped Hole	8"	MEP167	MEP168
* Rated for LP-Gas & NH ₃										

* Rated for LP-Gas & NH₃

Knob

ME441FS-1C
Cable Included



Metal Acme Caps

Part No.	Type of Acme Nut	Description
ME220FP	Knurled Brass	1 1/4" F Acme Cap
ME229	Knurled Brass	1 3/4" F Acme Cap
ME229-1		1 3/4" F Acme Cap w/ Ring & Chain
ME229S	Knurled Steel	1 3/4" F Acme Cap
ME229S-1		1 3/4" F Acme Cap w/ Ring & Chain
ME229F	EZ Grip Brass	1 3/4" F Acme Cap
ME229F-1		1 3/4" F Acme Cap w/ Ring & Chain
ME229FS	EZ Grip Steel	1 3/4" F Acme Cap
ME229FS-1		1 3/4" F Acme Cap w/ Ring & Chain
ME431	EZ Grip Brass	2 1/4" F Acme Cap w/ Knob Plug
ME431F-1		2 1/4" F Acme Cap w/ Knob Plug, & Chain
ME431FS	EZ Grip Steel	2 1/4" F Acme Cap w/ Knob Plug
ME431FS-1		2 1/4" F Acme Cap w/ Knob Plug, & Chain
ME441F	EZ Grip Brass	3 1/4" F Acme Cap w/ Knob Plug
ME441F-1		3 1/4" F Acme Cap w/ Knob Plug, Ring & Chain
ME441FS	EZ Grip Steel	3 1/4" F Acme Cap w/ Knob Plug
ME441FS-1		3 1/4" F Acme Cap w/ Knob Plug, Ring & Chain

ME441F



ME229



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Acme Caps and Dust Plugs

Plastic Acme Caps

Marshall Excelsior Part No.	Description
ME106	3 1/4" F. Acme Dust Cap - Yellow Plastic
ME106-1	3 1/4" F. Acme Cap with Chain Assembly - Yellow Plastic
ME108	1 1/4" F. Acme Cap - Yellow Plastic
ME108-1	1 1/4" F. Acme Cap With Ring and Chain - Yellow Plastic
ME109	1 3/4" F. Acme Cap - Yellow Plastic
ME109-1	1 3/4" F. Acme Cap with Ring and Chain - Yellow Plastic
ME109-NH3	1 3/4" F. Acme Cap - Anhydrous Service
ME109-NH3-1	1 3/4" F. Acme Cap and Chain Assembly - Anhydrous Service

ACME DUST CAP



ME106

Dust Plugs

Marshall Excelsior Part No.	Description
ME178	1 1/4" M Acme Yellow Plastic Dust Seal
ME178-1	1 1/4" M Acme Yellow Plastic Dust Seal with Chain Assembly
ME179	1 3/4" M Acme Yellow Plastic Dust Seal
ME179-1	1 3/4" M Acme Yellow Plastic Dust Seal with Chain Assembly
ME180	2 1/4" M Acme Yellow Plastic Dust Seal
ME180-1	2 1/4" M Acme Yellow Plastic Dust Seal with Chain Assembly
ME181	3 1/4" M Acme Yellow Plastic Dust Seal
ME181-1	3 1/4" M Acme Yellow Plastic Dust Seal with Chain Assembly



ME179

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Sumter Coatings, Painting Tools



bergquistinc.com



Part No.	Description
Tank / Cylinder Paint	
880W2203	#5 Tank Enamel (blued-white)
880W2201	#7 Silicone Alkyd (white)
880---	Tank Enamels... D0130 Mist Gray L0184 Tan D4450 Pearl Aluminum Gray
Aluminum Finishes	
888S2005	SC 2000 Aluminum Tank Paint
888S2006	SC 2110 Strontium Chromate Aluminum
880S2208	SC 1140 Fast Dry Cylinder Paint
Primers...quick re-coat	
855D1373	Epoxy Ester Gray Primer
855W1370	Epoxy Ester Off White Primer
Specialty Items	
880N2209	122 Foot Ring Protection
PL005	Penetrol - paint additive / wetting agent
856X2210	XL Thinner
Envir-Tuff Industrial Enamels...Accent dome colors	
886Y8625	Federal / Safety Yellow
886G8677	JD Green



New Low VOC [volatile organic compound] Paint

Part No.	Description
Tank / Cylinder Paint . . . Low VOC	
580W2203	#5 Tank Enamel (blued-white) Low VOC
780W2201	#7 Silicone Alkyd (white) Low VOC
580---	Tank Enamels... D0130 Mist Gray...Low VOC L0184 Tan...Low VOC
800---	D4450 Pearl Aluminum Gray
Primers...quick re-coat . . . Low VOC	
755D1373	Gray Uni-Pox Primer Low VOC
755W1370	Off White Uni-Pox Primer Low VOC
Specialty Items . . . Low VOC	
980N2209	122 Foot Ring Protection - Black cyl. saver
Envir-Tuff Industrial Enamels...Accent dome colors . . . Low VOC	
986Y8625	Federal Yellow industrial enamel
986G8677	JD Green industrial enamel



How much paint do I need?

Tank Size Gallons	Approx. Sq. Ft.	Gallons of Paint Needed
30,000	2,000	8
18,000	1,250	6
12,000	1,160	5
1,000	225	1
500	116	2 tanks per gallon
250	57	4 tanks per gallon

Part No.	Description
TR09K	Tank Roller - 9" (handle only)
LCV16	Lambswool Tank Roller Cover 9"
RC09P	9" Economy Roller Cover
CR063	7" Contour Roller (complete for cylinders)
CR006	Contour Roller Refill Cover 7"
BG0001	Bucket Grid w/dimple
AP024	Aluminum Extension Pole 2' - 4'
TA072	Telescoping Aluminum Extension Pole 6' - 12' - one piece
EP03P	Extension Pole 42" (3 piece)
BC0003	Bucket Cover (bonnet)
TTB002	2" Tank Trim Brush
WB042	Wire Brush w/metal scraper
PS012	Production Oxide Sandpaper
Tank Wash	Heavy Duty Industrial Strength Tank Cleaner
KM-1009	Empty 5 Gal. Metal Pail
7722PL	Latex Gloves.....100 per carton

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Stencil Ink , Decals, Signs and Labels



RIO PAD



Diagram Stenciling Ink and Accessories

Part No.	Description
3" Type N	3" roller assembly complete
Type N Rep Roller	3" replacement roller
RIO Cond	Roll It On conditioner
RIO Pads	Roll It On ink pads
S-1	Black Ink - quart
S-4	Red Ink - quart
S-6	Blue Ink - quart



S-4

Many colors available.
Price varies with color.

DECALS, SIGNS AND LABELS



P111



V128



RIN LABEL

OPD Retrofit Guidelines				
Cylinder Size	Material	Cylinder I.D. (in.)	Cylinder Water Capacity (lb.)	Recommended Dip Tube Length (in.)
4.25	Steel	8.9	16.2	2.2
16	Steel	7.8	15.9	3.6
68	Steel	7.8	19.9	3.2
100	Steel	8.9	20.1	3.6
119	Steel	8.9	20.2	3.6
139	Steel	11.9	20.2	3.6
11.99	Steel	11.9	27.2	3.2
209	Steel	11.9	47.6	4.9
224	Steel	12.6	36.7	4.8
309	Steel	12.6	71.9	4.8
409	Steel	12.6	98.2	6.9
69	Aluminum	8.9	15.8	4.8
100	Aluminum	10.0	23.6	4.9
209	Aluminum	12.6	47.6	4.8
309	Aluminum	12.6	71.9	4.8
409	Aluminum	12.6	98.2	7.9

P-114



PMICH

Decals and Signs



AA16/AA16 ROLL



2N1



SP53R



P102

Prefix	Suffix
P = Polyethylene (plastic)	A = 6" Letters
S= Scotchlite® (or equal) reflective	B = 4" Letters
V = Vinyl (stick-on) decal	BB = 3" Letters
M = Metal (aluminum)	C = 2" Letters
G = Magnetic blanket	D = 1" Letters
C = Coroplast	

Part Number	Description
A16	Custom imprinted DOT cylinder labels - min. order 3500
AA16	DOT cylinder labels - min. order 100
AA16ROLL	DOT cylinder labels 500 per roll
AA16GHS-CUSTOM	Custom GHS DOT cylinder labels - min. order 2,000
2N1	For all portable cylinders - 500 per roll DOT 1075 / Warning ANSI / NFPA Pamphlet 58
V56RGHS-CUSTOM	Custom GHS 3 in 1 Hazardous Material Labels - Minimum order 500
SP53R	Warning label, 3 valves. Black on yellow
P-101	Water capacity chart
P102	Notice for your safety
P-206	Cylinder filling instructions (ASME/DOT) - poly
V206	Cylinder filling instructions (ASME/DOT) - vinyl
V14	Cylinder exchange check list - vinyl
C37	Cylinder exchange check list - coroplast
P111	OPD sign - "Does your valve look like this ..."
P-114	OPD retrofit guide
PMICH	No Smoking - No Open Flame .. Warning: Filling the following...
V128	This container is NOT equipped with an OPD' (for horizontal cylinders)
RIN LABEL	RIN DOT Cylinder decal label 50 per roll
CUSTOM RIN	RIN DOT Cylinder decal label 500 per roll



C37



P-206/V206

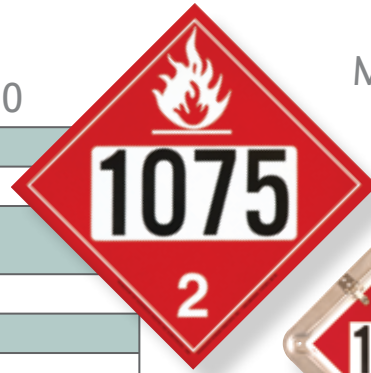
CYLINDER FILLING CAPACITY CHART			
W.T.	W.T.	W.T.	W.T.
2.39	1	35.8	15
4.78	2	38.2	16
7.17	3	40.6	17
9.56	4	43.0	18
11.9	5	45.4	19
14.3	6	47.8	20
16.7	7	50.2	21
19.1	8	52.6	22
21.5	9	55.0	23
23.9	10	57.4	24
26.2	11	59.8	25
28.6	12	62.2	26
31.0	13	64.6	27
33.4	14	67.0	28

P-101

Decals and Signs



S500



MPH69



Part Number	Description
M1075	Magnetic diamond placard 1075-2 LPG
P1075	Plastic placard diamond 1075-2 LPG, works with MPH69 holder
S1075	Scotchlite reflective 1075 decals
V1075	Vinyl placard diamond decal 1075-2 LPG
MPH69	Placard holder
CG126FO	Flip placard assembly metal frame
81-CLIP	Stainless steel clip for CG126FO metal placard
V83	Shipping paper 1075-2 one truck
V83-CYL	Shipping paper for cylinder truck
V83-TANK	Shipping Paper One Storage Tank
VDOT	"Operating under 49 CFR 171.5" white on black decal
S22B	Decal 4" X 36" We Stop at all Railroad (RR) Crossings
S22C	8" x 12" We stop at all decal railroad (RR) crossings
S500	3X5" black diamond " PROPANE " decal
HZ116GHS-CUSTOM	Custom GHS OSHA Commercial Cylinder Decal 2-4-0 PROPANE minimum order 500
SMV7	Slow Moving Vehicle decal
V92	Liquid/Clutch/PTO/By Pass decal
V8	Vapor/Relief/Liquid decal
V45	Valve ID label set 10 X 10 decal
V65	QT Decal
V66	NQT Decal
V31	HM-183 annual inspection decal kit
V32	HM 183 5 yr. inspection decal kit
V33	Number sheet only for V31 & V32 decal
V90-5	"Liquid" five per sheet 1 X 4" decal
V91-5	"Vapor" five per sheet 1 X 4" vinyl decal
V58C	LPG Octane label 2 1/2 x 3 decal
V75-20	Container Shutoff decal
V75-20 Tag	Container shut off warning tag

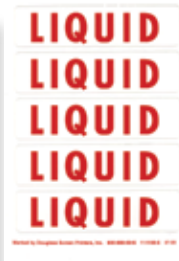
M1075
P1075
S1075
V1075



CG126FO
81-CLIP
REPLACEMENT
CLIPS



V8



V90-5



V91-5



V83-CYL
NO OF
CYLINDERS



V-83
ONE
TRUCK LOAD



V83-TANK
ONE
STORAGE TANK



V92



V45



V66

S22B



V65

S22C



V32



V31

213

Decals and Signs

FLAMMABLE

V24A / V24BB / V24C

FLAMMABLE GAS

V17B / V17C

PROPANE

V28A / V28B / V28BB / V28C

PROPANE GAS

V288BB

NO SMOKING

V23A / V23BB / V23B
M23BB / V23C

NO SMOKING
SHUT OFF MOTOR
WHILE FUELING

V39B /
M39B

NO SMOKING
OR OPEN FLAMES
WITHIN 25 FEET

V26A



M97FR
Optional
Frame
& Base



M97A
M97AD

M97FR
Optional
Frame
& Base

M97AX
M97AXD



V52

Part Number	Description
M97A	2' x 4' Aluminum single faced "PROPANE FILLING STATION"
M97AD	2 x 4 Aluminum double faced "PROPANE FILLING STATION"
M97AX	2' x 4' Aluminum single faced "PROPANE CYLINDERS EXCHANGED"
M97AXD	2 x 4 Aluminum double faced "PROPANE CYLINDERS EXCHANGED"
M97FR	2' x 4' frame for metal signs
V24A	6" flammable decal
V24BB	3" flammable decal
V24C	2" flammable decal
V17B	4" flammable gas vinyl decal
V17C	2" flammable gas vinyl decal
V52	11" Flammable Gas diamond decal red with white letters, class 2
V52S	4" Flammable Gas diamond decal red with white letters, class 2
V28A	Propane 6" letters decal
V28B	Propane 4" letters decal
V28BB	Propane 3" letters decal
V28C	Propane 2" letters decal
V288BB	Propane Gas 3" letters decal
V39B	12" x 18" No Smoking or Open Flames 25 feet decal
M39B	12" x 18" metal No Smoking within 25ft
V26A	12x18 No Smoking/Shut off motor decal
V23A	6" No Smoking decal
V23BB	3" No Smoking decal
V23B	4" No Smoking decal
M23BB	3" No Smoking on metal
V23C	2" No Smoking decal
V21	Concerned for your safety cylinder filling decal
V121	Port cylinder fill instructions decal
P13	Emergency contact # 's 18" x 24"
V153	Vinyl 10" x 12" "For Your Safety Leave Cylinder Outside"
P153	Plastic 10" x 12" "For Your Safety Leave Cylinder Outside"



V21



C37

Decals and Signs

Part Number	Description
#P148	Plastic sign Liquid Valve Emergency Shut Off PULL To Close 10" x 12"
V81	Vinyl sign Emergency Shut Off PULL To Close 10" x 12"
V126	Vinyl decal Emergency Shut Off PULL To Close 5" X 6"
P149	Plastic sign Liquid Valve Emergency Shut Off PUSH To Close 10" x 12"
V129	Vinyl decal Emergency Shut Off PUSH To Close 5" x 6"
V302BB	3" Liquid Petroleum Gas vinyl decal
V302C	2" Liquid Petroleum Gas vinyl decal
V2A	2" Anhydrous Ammonia vinyl decal
V5	4" Anhydrous Ammonia (straight) decal
V5A	4" Anhydrous Ammonia (curved) decal
V2B	2" Vinyl Inhalation Hazard decal
V1005	NH3 Placard diamond vinyl decal green stick on diamond 1005
V41	2" Liquefied -Green letters decal
704-1	2-4-0 OSHA diamond 7.5 X 7.5 propane decal
704-3	2-4-0 OSHA diamond 15 X 15 propane decal
V30	Tank filling instructions 15 X 22 "Motor Fuel" decal
7282Q	Methanol Warning Decal 3 x 5
V1203	UN 1203 Gasoline diamond decal Placard
6STCC-B	Tank Car Connected blue sign plate
4015-01	Steel holder - clamps to railhead, non-locking
4017-01	Manual hand mover lever for rail cars - includes wood handle
4011-06	'C' type double steel chock w/flag - handle length 28"
UG DOME SIGN	Plastic sign UG DOME SIGN 10" x 12" Yellow
P201	Plastic Sign 14" x 10" Emergency Electrical Shutoff Red and White
704-2	1-4-0 OSHA diamond 15 x 15 Butane Decal
V82	Vinyl, Emergency Shutoff PUSH to close 10" x 12"



V81/V126



6STCC-B



V129



UG DOME



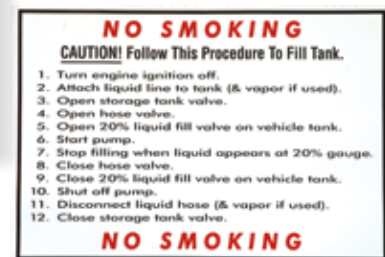
#P148



V1005



P149



V30

ANHYDROUS AMMONIA

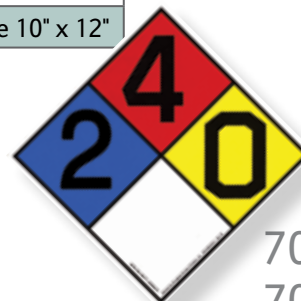
V2A

ANHYDROUS AMMONIA

V5

INHALATION HAZARD

V2B



704-1

704-3

LIQUEFIED PETROLEUM GAS

V302BB/V302C



7282Q

Manchester Cylinders (cont. next page)



5 LB.



11 LB.
SHORT



20 LB.

Part Number	Size Pounds	Service	Material	Valve
CY414OPD	4 1/2	Vapor	Steel	OPD
CY5OPD	5	Vapor	Steel	OPD
CYAL6	6	Vapor	Aluminum	OPD
CY10OPD	10 - Tall	Vapor	Steel	OPD
CY11OPD	11- Short	Vapor	Steel	OPD
CY15MC	15	Vapor	Steel	Mower Cylinder LH Connector, Acme Fill, No Gauge
CY20OPD	20	Vapor	Steel	OPD
CY20SFG	20	Vapor	Steel	OPD & Sureflame Gauge
CYFL20	20	Liquid	Steel	Forklift w/ Coupler & Gauge
CY20HOR	20	Vapor	Steel Horizontal w/ Gauge	OPD
CY20BUF	20	Vapor	Steel Verticle for Buffer	Forklift w/ Coupler & Gauge
CYAL20BUF	20	Vapor	Aluminum Buffer Verticle Only	Forklift w/ Coupler & Gauge
CY30OPD	30	Vapor	Steel	OPD
CY30HOR	30	Vapor	Steel Horizontal w/ Gauge	OPD
CY33.5	33.5	Liquid	Steel	Forklift w/ Coupler & Gauge
CYAL33.5	33.5	Liquid	Aluminum	Forklift w/ Coupler & Gauge

Special quantity
pricing may
apply on pallet
quantities or truck
load quantities.
Check with inside
sales.
1 800 537 7518



CYAL33.5
ALUMINUM

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Manchester Cylinders(cont.)

CYAL33.5FV	33.5	Liquid	Aluminum	Forklift w/ Coupler, Fill Valve & Gauge
CYAL33.5MC	33.5	Vapor	Aluminum	Mower Cylinder, LH Connector, Acme Fill, Gauge
CYAL33.5SF	33.5	Liquid	Aluminum	Forklift w/ Coupler, Snap-Fill and Gauge
CY40OPD	40	Vapor	Steel	OPD
CYAL40OPD	40	Vapor	Aluminum	OPD
CY435	43.5	Liquid	Steel	Forklift w/ Coupler
CYAL435	43.5	Liquid	Aluminum	Forklift w/ Coupler & Gauge
CY50	50	Vapor	Steel	POL
CY60	60	Vapor	Steel	POL
CY100	100	Vapor	Steel	POL
CY100L	100	Liquid	Steel	CGA555 Hopane
CY100ASME	100	Vapor	Steel	POL & Gauge
CY100 MULTIVALVE	100	Vapor	Steel	Multi-valve
CY200DOT	200	Vapor	Steel	POL & Gauge
CY200ASME	200	Vapor	Steel	POL & Gauge
CY420DOT	420	Vapor	Steel	Multi-Valve

Tankfoot tank stabilizer part number F273169 is available to assist the consumer in transporting 20, 30 & 40 lb cylinders



100 LB.



420 LB.



Special quantity pricing may apply on pallet quantities or truck load quantities. Check with inside sales.
1 800 537 7518

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Cylinder Equipment

Continued next page



247200



33-SCOOP

Heavy Duty Hand Trucks

Part Number	Description
CD-505	100 lb Cylinder Cart
HTBQ1	420 lb Cylinder Cart
33-SCOOP	Forklift Cylinder Cart - 4 Cylinders
247200	Forklift Cylinder Cart - 4 Cylinders



CD-505



HTBQ1



Cylinder Straps

Part No.	Description
Cyl Strap	12' x 2" strap complete, extra wide handle
Long Strap	8' strap, part of the cylinder strap
Short Strap	4' strap part of the cylinder strap
Webbing	Replacement webbing by the foot
Ratchet	Ratchet only for cylinder strap

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



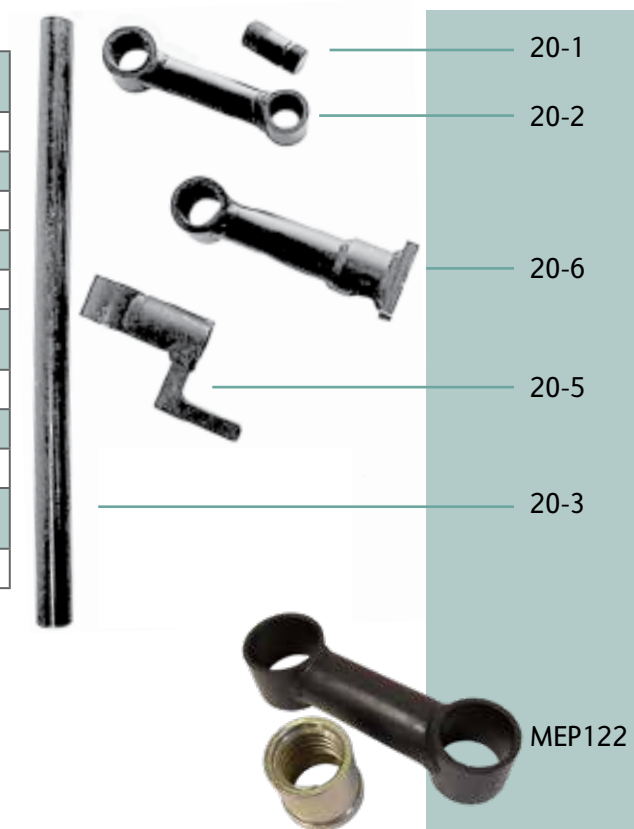
bergquistinc.com

Cylinder Equipment

(cont.)

Cylinder Valve Wrenches

Part Number	Description
20-1	Steel POL plug for valve wrench
20-2	Valve wrench distance piece
20-3	Handle
20-4	Chain vise
20-5	Plumbers pot wrench
20-6	Combo wrench (fits Rego & Sherwood)
20-8A	OPD 1 piece unit
MEP122	2 piece wrench QCC
MEP125	Socket drive crows foot
800411	1 1/8" offset wrench (Cavagna valves)
800412	1 7/32" offset wrench



Cylinder Caps and Collars

Part No.	Description
312MV	3 1/2" collar with multi-valve cutout
312	Standard 3 1/2" collar
318MV	Old style 3 1/8" collar for multi valve
C312	Standard 3 1/2" cap
C318	Old style 3 1/8" cap

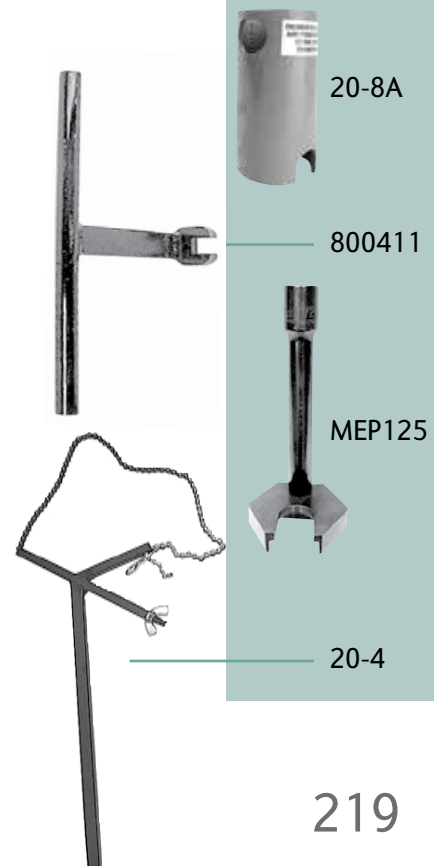
Note: For use on cylinders in transit and on construction sites. 'MV' collars have a cutout to fit over multivalves.



312MV



C312



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Miscellaneous Cylinder Equipment



bergquistinc.com

Air operated light weight tool for dating regualified cylinders.



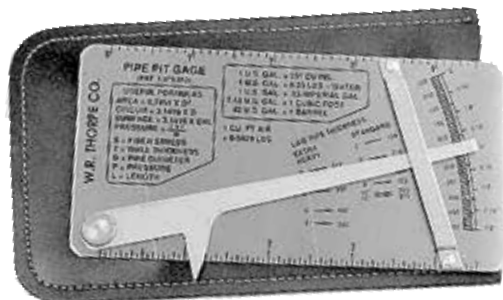
Chicago Pneumatic Air Scribe

Part No.	Description
CP9361	Air scribe, hose, filter
P054177Y	Stylus point for Air Scribe
P054186	Ring ball lock
S000821	1/8" ball
S008613	5/32" ball
P043886	8 ft. hose for Air Scribe



Spark Proof Hammer

Part No.	Description
Hammer	1.5 lbs.,neon orange, non-marking head



Thorpe Pit Gauge

Part No.	Description
Thorpe Pit Gauge	Pit gauge complete with leather case

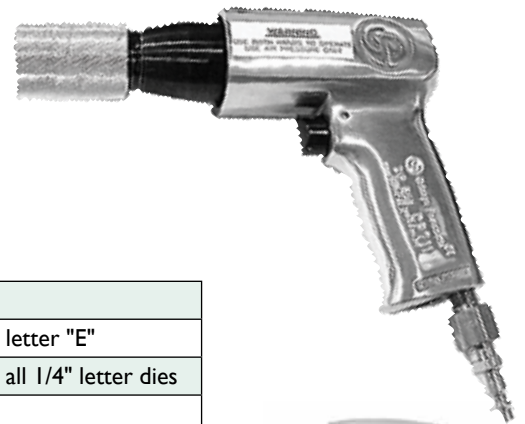
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Miscellaneous Cylinder Equipment

The EZ Stamp only requires 60 lbs. of air pressure to impact the new information onto the cylinder. By rotating the EZ Stamp slowly, the rapid beats (3200 beats per minute) drives the die into the cylinder or cylinder collar without denting the cylinder or the cylinder collar. Within 30 seconds you have a new legible date that doesn't fade away when you clean the paint off the cylinder.



EZ Stamp

Part No.	Description
EZ Stamp Mod A	1/4" numbers and letter "E"
EZ Stamp Mod B	1/4" numbers and all 1/4" letter dies
Includes Air Gun but not hose assembly	

Cylinder Vise

Part No.	Description
Cylinder Vise	Brindle cylinder vise
200XX	Replacement strap
Ratchet	Replacement ratchet



cylinder not included

Steel Stamps

Part Number	Description
Stampset	1/4" numbers with letter "E"
E Stamp	"E" stamp only 1/4"
N Stamp	"N" stamp only 1/4"
V Stamp	"V" stamp only 1/4"
Letter Set	27 Piece letter set 1/4" includes "."



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Cylinder Storage Cabinets



METALCRAFT INC.

Lift Truck Cylinder Cabinets

Part No. (1)	Description	Cabinet Dimensions			
		Deep	Wide	High	Weight
M4	4 Cylinder Cabinet	32"	30"	40"	120 lbs
M6	6 Cylinder Cabinet	32"	30"	55"	152 lbs
M8	8 Cylinder Cabinet	32"	30"	70"	170 lbs
M12	12 Cylinder Cabinet	32"	43"	70"	220 lbs
M16	16 Cylinder Cabinet	32"	60"	70"	305 lbs
M24	24 Cylinder Cabinet	32"	85"	70"	405 lbs

(1) Add an "A" to the Part Number for an Aluminum cabinet

F.O.B. Wawaka, IN. / Truck freight

- Fully fabricated & ready to put to use when received.
- Steel welded construction...no bolt to maintain in the field.
- Powder coated white or the color of your choice (red slightly higher)
- Extra heavy duty hinges
- Decal affixed to cabinet (1-No Smoking and 2-diamond shaped 1/4"/0 on each side).
- Eberhard "T" handle latch with 2 keys and a place for a padlock included
- Slant roof for water run off.
- Construction; Frame - 1 1/2" angle / Shelves - tapered 1" angle / Roof - 16 gauge steel.
- Lift truck cabinets built to fit 33.5 lb cylinders. 43 lb cylinder cabinets available at additional cost.
- All cabinets available in aluminum (1)

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Cylinder Storage Cabinets



20 LB. Cylinder Exchange Cabinets

Part No. (1)	Description	Cabinet Dimensions			
		Deep	Wide	High	Weight
X8	8 Cylinder Cabinet	27"	30"	50"	170 lbs
X12	12 Cylinder Cabinet	27"	43"	50"	215 lbs
X16	16 Cylinder Cabinet	27"	60"	50"	270 lbs
X18	18 Cylinder Cabinet	27"	43"	72"	270 lbs
X24	24 Cylinder Cabinet	27"	60"	72"	360 lbs
X24LP	24 Cylinder Cabinet Low Profile	27"	85"	50"	360 lbs
X36	36 Cylinder Cabinet	39"	60"	72"	490 lbs
X36LP	36 Cylinder Cabinet Low Profile	39"	85"	50"	490 lbs

(1) Add an "A" to the Part Number for an Aluminum cabinet
F.O.B. Wawaka, IN. / Truck freight

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



The Bergquist Better Dispenser

Aluminum or
Steel
Custom
built to your
specifications.
Continues on
next page



Corken C12 Pump
with 2HP Motor

1 1/4"
Internal
Valve for
Safety

Neptune
1" Type 4D-
MD
Dispenser
Meter

Fairbanks
Portable
Beam
1000 lb.
Capacity
Scale

1 -8' Hose for
Cylinder Filling for
RVs
6' for cylinder
filling



- **Secure**...3 doors secured by 1 lock.
- **Compact**...our unique cabinet design was engineered with you in mind.
- **Convenient**...Cabinet & contents are shipped assembled. (except scale)
- **Heavy Duty Cabinet**...Welded steel construction, aluminum or primed and painted white, side floor vents, hose hanger. Comes with decal bins and tool tray.
Adjustable/removable pump and meter mounts for installation flexibility
- **Components** from the industry's leaders. Corken pump, Neptune meter, Fairbank 1000 lb. capacity scale, Jomar ball valves, Parker hose, quick MEC hose end valves and adapter, and top quality strainer and fittings.
- **Fold Back Top**...makes filling and weighing cylinders easy, including 100 lbs. cylinders.
- **Tank Stands Included**. These tank stands accept pipe rails which connect the tank to the cabinet base. (2 - 2" sch. 40 lengths of pipe are required to tie tank stands to cabinet.)
Base Receiver Tubes... accepts 2" pipe rails for common base configurations. Pipe receiver tee option also available..
- **Complete**...your dispenser unit comes assembled and ready to go. All you need to supply is; propane, a bulk propane tank, electricity (110 or 220 volt), 2-2" sch. 40 lengths of pipe for skids and sch.80 pipe for liquid transfer.
- **Optional ~ Integral Purging System**... adjustable 15 lb. regulator with pressure gauge & hose assembly. Two ball valves piped in series allow product venting through pipe-away stack. Purge system uses a three-way ball valve.

Includes;

- **1 1/4" Internal Valve for Safety**
Excess flow protection, fire protection, and remote shutdown capability.
- **Corken C12 Pump with 2 hp Motor.**
Designed specifically for Propane and is simple to service. The C12 has heavy-duty, permanently lubricated ball bearings, free-floating impeller design, ductile iron case, balanced mechanical seal assembly, high flow inlet and discharge, and continuous-duty motor. 2 year Limited Warranty.
- **Fairbanks Beam Scale 1000 lb capacity**
The Model 1124 scale is rugged, long lasting, easy to read, compact and easy to move. It has a cast iron base, cast iron lever system and a cast iron platform. The Fairbanks 1124 provides exceptional accuracy over many years of service, resisting corrosion and bending.
- **Neptune 1" Type 4D-MD Dispenser Meter**
The standard unit includes a 600 Series totalizing register with a 5 digit resettable counter and an 8 digit non-resettable totalizer. The Neptune 4D-MD designed oscillating piston measuring chamber is both accurate and reliable. ATC option available.
- **1 - 8' Hose for Cylinder Filling**
1-6' hose for cylinder filling and 1-18' hose for RV's
- **2-Quick Acting Hose End Valves**
- **Adapters for filling cylinders, forklifts, and RV's.**
- **3/4" Pullaway**
- **High Quality Fittings**
- **Strainer**
- **Decals**
- **Supply of POL Plugs & DOT Labels.**

Part Number	Description
D2-S-02-A-1	Pump, Meter, D2 steel cab with all fittings for Dispenser
D2-A-02-A-1	Pump, Meter, D2A aluminum cabinet with all fittings for Dispenser
D1-S-02-A-1	Pump, Meter, D1 steel cab with all fittings for Dispenser
D1-A-02-A-1	Pump, Meter, D1A aluminum cabinet with all fittings for Dispenser
D3-S-02-A-1	Pump, Meter, WID-6 Tall Steel Cab with all fittings for Dispenser
D3-A-02-A-1	Pump, Meter, WID-6A Tall Aluminum Cabinet with Dispenser fittings
D2-S-02-Z-2	Pump, D2 steel cab, scale, stands, fittings 1 hose, No Meter
D2-A-02-Z-2	Pump, D2A aluminum cab, scale, stands, fittings 1 hose, No Meter
D1-S-02-A-3	Motor Fuel Disp Kit- small steel cabinet, C12 pump,meter,piping, 1 hose,no scale
D1-S-02-Z-6	Motor Fuel Disp Kit- small steel cabinet, C12 pump, piping, 1 hose, no scale, no meter
D1-A-02-A-3	Motor Fuel Disp Kit- small aluminum cabinet, C12 pump,meter,piping,1 hose,no scale
D1-A-02-Z-6	Motor Fuel Disp Kit- small aluminum cabinet, C12 pump, piping, 1 hose,no scale, no meter

Options and Accessories	
ATCM	Automatic 1" temperature compensated meter, non-printing
RL100108A3D	1" meter with printing 833 register (non-temperature compensated only)
D1 / D2 WIRE KIT	Pump switch wiring kit to junction box, Class 1 / Div 1 , installed
ESV POST	Steel post for dispenser ESV system
GG1EHS	Gas Guard nozzle , 1 3/4" Acme x 3/4" FNPT with strainer screen, long-nose and latch options available
NB-GG	Flush mount holster boot for Gas Guard nozzle
ME796	Quick fill QCC1 filler valve for snap on / snap off fill action
ME778-4	Low emission, high flow QCC1 filler valve, other LE filler options available
PURGE KIT	Integral purge system for dispenser with 6' hose, pipeaway stack and 15 lb. regulator
6102	Dispenser hose retractor with 78" post and 1" OD hose clamp
1000 SKID TANK	1000 wg skid tank dispenser package, fully installed
SKID LIFTING BRIDLE	4-leg lifting bridle for tank skid
411	A-B-C rated fire extinguisher
STAND TALL HD	Heavy duty tank stands for 2000 wg tanks
TANK PIPE KIT	For installation of 2nd supply tank - includes internal valves, piping flex lines and ESV
TSTA-2	Aluminum step for tank filling with "C" clamp attachment, skid frame step option available
RECT	2" branch tees with receiver couplings for mid-mount tank
661261	1 1/4" MNPT x 1 3/4" AC filler valve with 90° inlet and shutoff lever
ME673DEX-6SP	1 1/4" MNPT x 1 3/4" AC multivalve with 3/4" FNPT opening for bypass return
601010-000	E1000 electronic register head for RL100 Neptune dispenser meter
XEX200GG	Explosion proof ceiling light for tall dispenser kit
FST-634-NS	1" FNPT Blue Moon filter kit with screw on lid (no spring), 50 GPM, installed after pump
ME680-8	MEC 1" micron filter with bottom mounted element
2SGALV	2" galvanized Schedule 40 black pipe, 21' length, 2 pc required



D3-A
Walk-in-dispenser



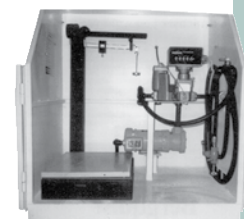
D3-A-02-A-1
Walk-in-dispenser



D1-A -02-Z-6
Compact cabinet



D2-S



D2-S-02-A-1



D1-S
Compact cabinet

D1AFF Fleet Fueling Dispensers



One in a series of the finest dispensers, all designed with you in mind.
(Mechanical Register)
Your company logo here!

The D1AFF is shown with the optional OPW hose retractor system and flush mount nozzle holster



Interior View

Two outlet junction box

Neptune 1" type 4D-MD meter with 600 Series Mechanical Register



Compare these features & benefits

- Compact D1AFF Aluminum Cabinet
- 1" Neptune Type 4D Meter with 600 Series mechanical register
- High Differential Pump Options Available
- Single Phase Service Options
- External Pump & Motor Mount for Ease of Maintenance
- Fully Assembled with Receiver Couplings for integral base
- Internal valve & Gas Guard filler
- Stainless steel flex line, Y strainer, Breakaway, Decals
- Steel tank stands
- Fully Assembled - Leak Checked

Available Options & Accessories

- ATCM - temperature compensated meter (MT, ND, WI required)
- Hose retraction system (6102) (as shown)
- Blue Moon filter

Optional VFD

Variable Frequency Drive
Converts single phase source to 3 phase service
Improves motor efficiency and reduces electrical consumption
Slow start-up feature prevents flow surges
Controls motor speed for maximum performance
Includes motor overload protection



Back View

External mount for easy maintenance motor - pump - bypass

Corken High Differential Pump

Corken Bypass (B166-1)

6133X1 companion flanges

2" pipe receiver couplings

Ball Valve

Corken Pump

TPMP-C external pump base



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

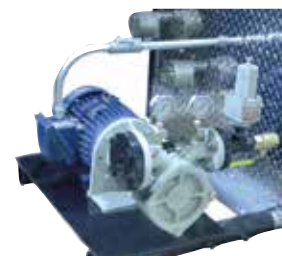


bergquistinc.com

D2AFF Hybrid Dispenser



- D2AFF Fleet Fueling Cabinet diamond plate aluminum cabinet with slide back top
- High differential Autogas Pump with 230V, 3 phase motor (single phase option available)
- 2 - Fill hoses, one for bottle filling, one for metered delivery
- 1" meter with mechanical register, standard
- Metered hose with Gas Guard Autogas filling nozzle
- Scale hose with bottle filling nozzle
- Pump flange kit, base, pressure gauges, ball valve
- Excess flow and pull-away protection
- Hoses coiled on cabinet door hook or add hose retractor option.
- Pump suction piping, y-strainer, flex-line, ball valve
- 1-1/4" Internal valve with latch and pull-to-close cable. ESV options available
- Piping painted and leak tested
- Tank stands, bolt kit, filling decals, QCC1 dust caps etc.
- Filler adapters for forklift and POL cylinders



Two Dispensers in one.
Cylinder filling +
Fleet Fueling

Hose Retractor
(optional)

Purge Kit
(optional)

Mechanical
register

Blue Moon
filter

Removable locking
doors w/decal pouch

Fairbanks Beam Scale
1000lb. capacity

Gas Guard
Autogas Filling Nozzle

Autogas Pump
with 230V, 3
phase motor
(single phase
optional)

Available options
ATC | Purge Kit |
Micron Filter |
Hose Retractor
Tank Fill Step

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

P4 Series LPG Dispensers (Continued on next page)



Advanced Technology /
Competitive Pricing



P4-150, Two Hose
Autogas & Cylinder
(pump option shown)

Parafour's "P4-Series" offer the next generation in advanced LPG refueling systems. From electronic upgrades to existing "Cabinet" style dispensers, to dual purpose cylinder and Autogas dispensers, through full retail "Pay at the Pump" with the PARA-FUEL fuel management system. The P4-Series offer the best technology at the best price. You won't find a more feature rich and capable dispenser. Built to exacting standards and designed around ALL applicable codes and regulations (NFPA 58, NEC, UL-495 and NCWM). Parafour offers the most capable and compliant dispensers available today.

ETL Listed to UL- 495
NTEP Certified for Retail
Sale



P4-100 Single Hose

Attractive, Compact, Robust and Reliable. The P4-Series have no rivals. Designed and built by the most accomplished and experienced LPG dispenser design team in North America, you simply will not find a better product, better technology, better support or better price!



P4-200, Dual Hose
2-Sided, Lane Oriented

Parafour Innovations is dedicated to quality, technology and affordability, with a focus on technology, support and future expandability, to meet the needs of a rapidly evolving and LPG refueling market. Invest today in a product which will give you years of faithful service and upgradable enhancements to improve your efficiency and customer service as your business grows!

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com



P4 Series LPG Parafour Dispensers (cont.)

Parafour Petro Vend PV 100

Computer Features:

Single large display with total Sale, price and gallons
Easy to read back-lit LCD displays
Intuitive programming with secure keypad
16 Key alpha-numeric keypad
5-level secure access programming
110 vac / 60Hz power supply
Communicates to most fuel management systems
Integral Gilbarco 2-wire communication protocol

Standard Features:

Automatic Temperature Compensation
Advanced Electronic "No-Seal" Calibration
Enhanced Accuracy with Quadrature Pulser
5-level Present Pricing
Leak / Theft Detection
Integrated Fuel Management System Interface
All Models Fully Field Upgradable:

Printer Option
PARA-FUEL Fuel Management System

Optional Equipment:

2" Roll Thermal Receipt Printer
Pedestal / Post Mount Options for the P4-050
Integrated Fleet Fuel Management with RFID Key-FOB
PARA-FUEL Fleet / Retail "pay-at-the-pump" System
Integrated 12 gpm Pump for Dual Purpose LPG Resellers
English, Spanish, Russian and Other Languages Available
Hose / Pull-away / Nozzle Kits

The Petro Vend PV100™ Fuel Control System

OPW Fuel Management Systems proudly introduces the Petro Vend 100™ (PV100) Fuel Control System - a stand-alone pedestal-mounted system for small or mid-sized fleet-fueling sites that require one or two hose control.

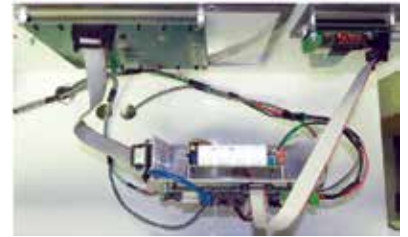
The OPW Petro Vend 100™ is the ideal solution for unattended fueling for small or mid-sized fleets. As a 'turnkey system,' the unit is designed for quick and easy installation. It ships, ready-to-use with 50 pre-configured users and requires only power, and hose-control line connections in order to initiate system operation. The PV100™ stores dispensed fuel amounts as card - and pump - specific totals, which can be viewed on the display or retrieved with an external USB flash drive for transfer to local computer. A great solution for small fleets of a single department, at a very competitive price and pre-configured for installation with P4-Series Dispensers.

Petro Vend 100™

Controls up to two hoses

Features

- User selectable PINs, form 3 to 6 digits in length, allowing only authorized users to access fuel
- Dual, manual, pump override control enables pump relays and the recording of dispenser-fuel volumes during a specific time
- Monochrome graphic display
- Optional dual-head magnetic card reader
- Includes USB flash drive for transaction storage
- Allows you to adjust programming parameters, view card and pump totals, and transfer all data to a USB flash drive via Manager Card access in on-screen manager mode



Calculating Computer



Front/Rear view of receipt printer



Petro Vend PV100



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Breakaway Couplings, Scales

Designed to separate in case of accidental pull away of fill hose on dispensing units. Requires approximately 60 lbs. pull to separate. Be sure to put shut off valve with bleeder and hydrostat before breakaway. Coupling must be left free to swivel in the direction of pull.



Part Number	Type of Mount	Pipe Size
ME860S-6	With Mounting Bracket	3/4" FPT
ME860S-8		1" FPT
ME860S-10		1-1/4" FPT
ME861S-6	With Wire Lanyard	3/4" FPT
ME861S-8		1" FPT
ME861S-10		1-1/4" FPT
ANCHOR001	3/8" x 2 1/4" wedge anchor bolt for breakaway coupling	-



Fairbanks Portable Beam Scale

Capacity: 1000 lbs.
Platform: 17 3/4" x 23 1/2"
Height: 42 3/4"
Ship.Wtg.: 175 lbs.

1124

Common Scale Parts

Description		Fairbanks Part No.	Detecto Part No.
Beam Insert 0 - 100 lbs. x 1/2 lbs. 		55441B1 (set of 2)	Not applicable
Counter poise 		2-55444-40	6P10021X
Couter poise weight 	Pounds	2-55444-55	6PP100X
	100 lbs.		
	200 lbs.	2-55444-56	6PP200X
	400 lbs.	2-55444-57	6PP500X
50 LB. test weight 		C73082	C73082



Detecto Portable Platform Scale

Capacity: 1000 lbs.
Platform: 19" x 28"
Height: 45" Width: 24"
Ship.Wtg.: 132 lbs.

854F100P



bergquistinc.com

Dispenser Quick Acting Valves



ME791C

Dispenser Quick Acting Valves

Part No.	Inlet Connection	Outlet Connection	Locking Handle
ME791C	1/2" FNPT	1/4"FNPT	No
ME791D	1/2" FNPT	1/2"FNPT	No
ME792C	1/2" FNPT	1/4"FNPT	Yes
ME792D	1/2" FNPT	1/2"FNPT	Yes
ME820-4	1/2" FNPT	1/2"FNPT	Yes
ME820-6	3/4" FNPT	3/4"FNPT	Yes
ME820-8	1" FNPT	1"FNPT	Yes - Globe body
ME810	1" FNPT	1"FNPT	Yes - Globe body

Note: ME791K Valve Repair Kit for ME790 Series



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



Filling Adapters

Part No	Manufacturer	Description
MEM390	Marshall Excelsior	Softnose POL x 1/4" MNPT - Long
ME790	Marshall Excelsior	Forklift Filler x 1/4" MNPT - Long
G820	Marshall Brass	1 5/16" Swivel (QCC1) x 1/4" MNPT
ME516	Marshall Excelsior	1 5/16" Swivel (QCC1) x 1/4" MNPT
129A003	Cavagna	Kosan POL Filling Head
129A006	Cavagna	Kosan Forklift Filling Head
129A009	Cavagna	Kosan OPD Filling Head
ME392	Marshall Excelsior	1 5/16" Swivel (QCC1) x FPOL
ME568	Marshall Excelsior	1 3/4" F Acme x FPOL
ME393HD	Marshall Excelsior	1 5/16" Male QCC1 x Softnose MPOL
ME393-1	Marshall Excelsior	1 5/16" Male QCC1 x 1/4" FNPT
ME394	Marshall Excelsior	1 5/16" Male QCC1 x 1 1/4" F Acme
ME569	Marshall Excelsior	1 3/4" F.ACME x 1 5/16" M.ACME
ME390S	Marshall Excelsior	Softnose POL x 1/4" MNPT- Long - Stainless Steel and Brass

Bobtail Hose End Valves Page 132
Acme Adapters Page 202



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

QCC Quick Fill Coupling

Purpose:

Provides a fast and reliable connection for filling cylinders with QCC style 1-5/16" M. Acme service valves. This coupling provides a snap on / snap off design specifically intended to reduce labor and repetitive motion associated with threaded type fill couplings. Our glass filled nylon handle and stainless steel internal components provide a durable, light weight, and easy to operate fill coupling that will withstand even the harshest working conditions while reducing cylinder valve thread wear.

Features:

Easy to use snap on / snap off action for quick fill operation

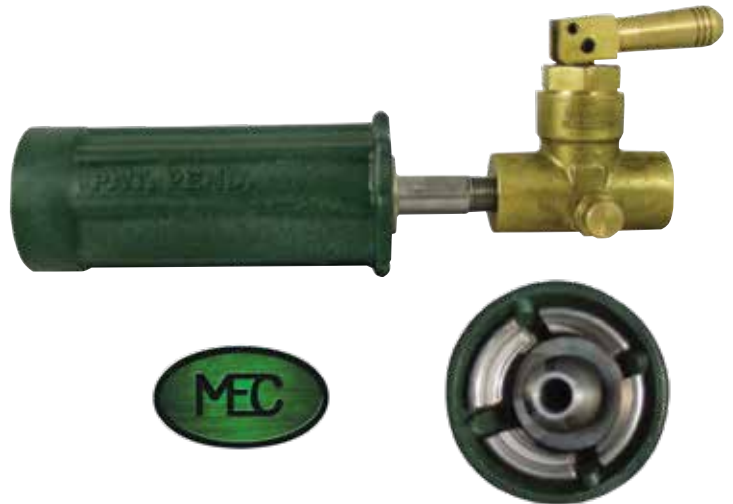
Durable glass filled nylon handle

All stainless steel internal components

Large bore stainless steel stem for increased flow

Designed for universal right or left hand operation

Provides universal fill connection for all model QCC service valves



Coupling detail

QCC Quick Fill Coupling	
Part No.	Description
ME796	QCC Quick Fill Coupling 1-5/16" Acme x 1/4" MNPT

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Quick Connect Autogas Fill Nozzles



bergquistinc.com

The Light Weight
GPV14-L
Comes with Latch

As easy to handle as a gasoline or diesel nozzle.

- place nozzle onto male Quick Connect filling connection
- pull lever

Staubli Propane Autogas Fill Nozzle

- Snap-on threadless Quick Connection
- Uncoupled safety - no flow unless coupled to filler valve
- 3/4" FPT swivel inlet
- Ultra-low emission, less than 1 cc release at discharge
- Flow rate at 10 psi pressure drop: 125 liters/min, 33 GPM



Safe operation... the connection sequence prohibits handling errors:

- If the nozzle is not connected correctly
- no venting of gas
- no gas will flow
- no possibility of partial locking
- no automatic unlocking when the lever is released

Integrated safety - fully automatic operation:

- audible click when the nozzle is seated on filling unit
- automatic locking and opening of the circuit when lever is pulled

Easy to use.

- The valve design allows connection without effort



Gas Guard Quick Connect
Autogas Nozzle
ZVG2
ZVG8 /Optional hold open fill
lever latch assembly for
ZVG2 Quick Connect Nozzle



Gas Guard Nozzle
Holster Boot
NB-GG
Cast aluminum one piece body
4" W x 12.5" H x 4.25" D
Fits ZVG2 Quick Connect Filler
Nozzle
and Staubli GPV14L

**Snap-on threadless Quick
Connect connection**
Uncouple safety
**No flow unless coupled to filler
valve**
3/4" FPT swivel inlet
**Metallic body with rubber hand
grip**
Flow rate 13 GPM
UL Listed
**Ultra-low emission, less that 1 cc
release at discharge**

ELAFLEX

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Quick Connect Autogas Fill Valves and Adapters



1009500283
Quick Connect
Autogas Fill Valve
Housing black plastic
with flip door



16095000320
Quick Connect
Vehicle Fill Adapter
1-3/4" Male Acme x FEM
Quick Connect snap-on



1609500331
Quick Connect
Fill Nozzle Adapter
Male snap-on x 1-3/4"
FEM Acme swivel

6602901292
Quick Connect
Autogas Fill Valve
Male snap-on x 1/2"
flare 90°



6602901359
Quick Connect
Autogas Fill Valve
Male snap-on x 1/2"
flare bulkhead
Direct retro-fit for
the 1-3/4" Acme
auto gas remote fill
valves
Easier connection,
faster flow, lower
emission discharge
Fits the Roush
Bluebird buses



033-473
Plastic Replacement
Cap with Lanyard
For 660201359

660363
Snap-Fill Adapter Fill
Valve 1-3/4" Male
Acme X Female
Quick Disconnect



6602901327
Quick Connect Fill
Valve for Forklift
Cylinders
3/4" MNPT Forklift EN
12806 Filler Valve
Container Connection:
3/4" MNPT
Wrench Hex Flat:
1-3/4"



G1699

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Blue Moon Filters



Blue Moon®



Blue Moon Filters

Today's most advanced filtration system.

Blue Moon® is a unique multi-stage filter system that extracts 90-97% of impurities from LPG. This innovative filter eliminates heavies and particulates (sulfur, metal flake, etc.) protecting fuel injectors and precision components more completely than any other product available in the industry today. Over the long term, this saves on replacement parts and repairs.

Filters				
Part Number	Description	Flow Rate GPM	Replacement Cartridge	Manufacturer
FST-26	3/8" FNPT disposable filter for LP	15	N/A	Blue Moon
FST-42	3/8" FNPT filter for LP	15	FST-RF2	Blue Moon
FST-63	1" FNPT disposable filter for LP	35	N/A	Blue Moon
FST-634	1" FNPT filter for LP	50	FST-RF6	Blue Moon
FST-634-NS	1" FNPT filter w/ screw on lid (no spring) for LP	50	FST-RF6-NS	Blue Moon
ME680-8	1" FNPT filter for LP or NH3	35	ME680-8-ERK	MEC
FST-124-NS	2" FNPT filter w/ screw on lid (no spring) for LP	75	FST-RF4-NS	Blue Moon
FST-418	3" FNPT filter for LP	150	FST-RF8	Blue Moon



ME680-8

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



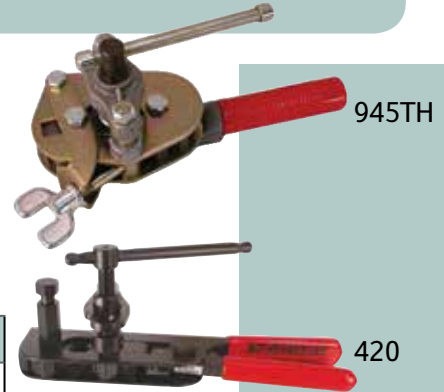
bergquistinc.com

Note: Single handle, most popular, automatic depth gauge, burnishes and flares in one motion.

Flaring Tools and Tubing Cutters

Parker Rolo-Flair Flaring Tool

Part Number	Description
945TH	Parker Rollo-Flare



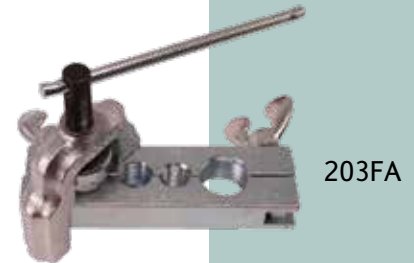
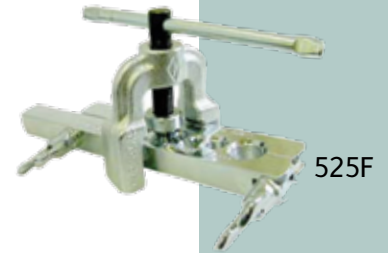
Rothenberger Swing Release Flaring Tool

Part No.	Description
420	3/16", 1/4", 5/16", 3/8", 1/2", and 5/8"



Imperial Professional Flaring Tool

Part No.	Description	Tube Size O.D.
525F	'Grabber' Rol-Air flaring tool	3/16" thru 5/8" one opening fits all sizes
500FC	'Rol-Air' flaring tool	3/16" thru 5/8"
203FA	Flaring tool for large size tubing	5/8" thru 1 1/8"
195FC	Flares 7 tube sizes	3/16" thru 5/8"



Imperial Hi-Duty Tubing Cutter

Part Number	Description
TC1000	3/16" thru 1 1/8" tubing cutter with reamer
75015	Replacement cutting wheel

Note: Extra cutting wheel included under reamer



Imperial 'IMP' Tubing Cutter

Part No.	Description
TC1050	1/8" thru 5/8" cutter
32633	Cutting wheel
26883	Screw

Note: Ideal for tight quarters.



Rothenberger Tubing Cutter

Part Number	Description
512	3/16" thru 1 1/8" tubing cutter with reamer
7.0007	Replacement cutter wheel for 512

Note: Formerly Papco, extra cutting wheel in handle. Most popular.



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Service Equipment



bergquistinc.com

004424

#460

GL12

#8WCB

#815

C-2

6019

P120B

J WRENCH

Wheeler Rex Aluminum Pipe Wrench

Part Number	Description
004414	14" Alum Heavy Duty Straight Pipe Wrench
004424	24" Alum Heavy Duty Straight Pipe Wrench
4436	36" Alum Heavy Duty Straight Pipe Wrench

Channellock Tongue and Groove Pliers

Channellock Tongue and Groove Pliers	
Part Number	Description
#420	9 1/2", 5 adjustments, 1 1/2" capacity
#440	12", 7 adjustments, 2 1/4" capacity
#460	16", 8 adjustments, 4 1/4" capacity
GL12	12 1/2" 90° GripLock, 6 adjustments, 2 1/4" capacity

Note: Right angle teeth grip in all directions. Undercut tongue & groove won't slip. Patented reinforced edge. Channellock blue comfort grips.

Channellock Adjustable Wrenches

Channellock Adjustable Wrenches	
Part Number	Description
#808	8" wrench, 15/16" capacity
#810	10" wrench, 1 3/16" capacity
#812	12" wrench, 1 3/8" capacity
#815	15" wrench, 1 3/4" capacity
#8WCB	8" wrench, wide jaw

Note:

- 1) Measurement scales on jaws ideal to determine size of nuts, pipe, etc.
- 2) Chrome vanadium steel construction.
- 3) Ergonomic handle, non protruding jaw.

Part No.	Description
C-2	Telescoping Inspection Mirror

Ideal for heat exchanger and relief valve inspections. Note: Double ball joint, tempered steel links swivel mirror to any position, withstand stress or constant repositioning, move freely, and hold desired position. The telescoping mirror has a hex inner rod that prevents the mirror from swinging out of present alignment. Has insulated vinyl grip.

Part No.	Description
6019	Channellock 6 in 1 Screwdriver

Spanner Wrenches

Part No.	Description
P120B	2 1/4", 3 1/4", 4 1/4" wrench
J Wrench	3 1/4" acme wrench

Heavy Duty Spanner Wrenches

Part No.	Length
MEP120C	13-3/4"



EZ-Turn Ergonomic Aluminum Acme spanner wrench for 3-1/4" female Acme caps.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Service Equipment

EL-F621

GM3X

GM12

GM4

Gas Matches

Gas Matches	
Part Number	Description
EL-F621	Gas Match 16" Flex Nozzle - No Butane
GM3	Gas Match w/ Continuous Ignitor 14-3/4"
GM3X	Gas Match 15" Flex Nozzle
GM4	Gas Match Refillable 11" Long
GM12	Multi Sparker Continuous Ignitor Gas Match
GM12X	Multi Sparker Continuous Ignitor Gas Match w/ Flex Nozzle
99108	Ronson Multi Fill Butane Refill Large Economy Size 5.3 oz.
B70	2.75 oz. (78 g) Ronson Butane Refill
EXT MATCH HLDR	Extendable Match Holder



99108

EXT
MATCH
HOLDER



Packed in a convenient plastic storage container.

Drill and Tap Kit for Bulk Tank Percentage Gauges

Part No.	Description
Tap Kit	Replace Jr. and Sr. Screws

Note: Jr. & Sr. screws can break off in the tank, save the tank by drilling and tapping. Kit includes steel Jr. & Sr. blocks for proper alignment, and Jr. & Sr. drill & taps.

Flashlight

Part No.	Description
#912	Hazardous area approved flashlight

#912



First-Aid Kit

Part No.	Description
First Aid Kit	Wall mount, plastic case, complete

First Aid Kit contains...

- 16-adhesive strips, 1" x 3"
- 1-triangular bandage, 40"
- 4-gauze pads, 3" x 3"
- 1-large wound dressing, 5" x 9"
- 2-eye pads
- 1-adhesive tape
- 6-first aid & burn cream packets, .9 gm.
- 1-gauze bandage, 4"
- 1-eye wash, 1 oz.
- 1-pair scissors
- 1-pair forceps
- 4-exam gloves
- 1-first aid instructions
- 30-antiseptic wipes

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Service Equipment



SS04



PB04



LACO



400-102



TT61

Pipe Thread Sealant

Part Number	Description
SS04	Gasoila Soft-Set with Teflon 1/4 Pint Brush Top Sealant
SS08	Gasoila Soft-Set with Teflon 1/2 Pint Brush Top Sealant
SS16	Gasoila Soft-Set with Teflon 1 Pint Brush Top Sealant
NT08	Gasoila Non Teflon Blue Pipe Sealant 1/2 Pint Brush Top
NT16	Gasoila Non Teflon Blue Pipe Sealant 1 Pint Brush Top
400-002	1/4 Pint Gimme the White Stuff Pipe Sealant
400-102	1/4 Pint Green Stuff Pipe Sealant
400-104	1 Pint Green Stuff Pipe Sealant
PB04	PLS2 Pipe Thread & Gasket Sealer 1/4 Pint Brush Top Sealant
PB16	PLS2 Pipe Thread & Gasket Sealer 1 Pint Brush Top Sealant
RTS-100	1/4 Pint Rectorseal No 5 Pipe Thread Sealant
RTS-101	1/2 Pint Rectorseal No 5 Pipe Thread Sealant
RTS-102	1 Pint Rectorseal No 5 Pipe Thread Sealant
LACO	4 oz pipetite thread seal stick 443 sealant - 12 per case
TT61	1/2" x 520 inches pipe seal teflon tape
TT54	3/4" x 520 inches pipe seal teflon tape
XTRU	4" X 50" 12 MIL black tape pipe sealing wrap for underground electrolysis protection



FA06



BEE BOP



TS18



TW01-GR100



TW90



HALT
240

Miscellaneous Service Equipment

Part Number	Description
BEEBOP	Wasp and hornet spray (14 oz.), 12 per case
FA06	Free All (6 oz.) aerosol spray penetrating oil
FA12	Free All (12 oz.) aerosol spray penetrating oil
HALT	Dog repellent (1 1/2 oz.) with belt clip, 12 per case
TS18	Tub O' Scrub power hand cleaner bottle wonder works (18 oz.)
TW90	Tub O' Towels disposable towels - 90/canister
TW01-GR100	Tub O'Towels singles, individually wrapped towel packages - 100/carton

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Manometers

Dwyer U-Tube Manometer

Attach to vertical steel surface with magnets behind scale, if necessary attach using screws and bolts. Hose included.

1222-16



DPA1



EM152

Mono-hydro-gauge. Alternative to an ordinary U-tube manometer.



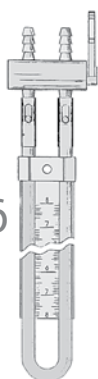
MON-15

MON-15 Manometer

Part NO.	Description
MON-15	Manometer
85P02	Optional Adapter
1D4976	Rubber bell adapter

Part Number	Description
1222-16	U-tube manometer
1222-16-D	Oil filled U-tube manometer
A101	3/4 oz. red gauge oil
A102	4 oz. red gauge oil
A126	3/4 oz. replacement green dye
A201	3' tubing with replacement bell end
A319	Flexible red PVC connector for 1222 manometer
DPA1	Digital water monometer smart-phone adapter with hose
EM152	Electronic manometer, 20" WC w/ 18" hose, 1/8" MPT test adapter

MAN-16



MAN-16 Manometer

Part No.	Description
MAN-16	1-16" U-Tube Manometer

1212



Accurate pressure readings to 16" w.c. No fluid to lose, rolls up for convenient storage.

Dwyer Slack-Tube Manometer

Part Number	Description
1212	Slack tube manometer
A401	1212 Case
A126	3/4 oz. green replacement dye
A201	3' tubing with replacement bell end
1D4976	Rubber bell adapter
1212 KIT	Adapter kit
A339	Brass adapter 1/8" MPT x 1/8" barb

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Service Equipment, Test Equipment



bergquistinc.com



2000A

- Pounds to 200 psi
- Inches of water to 16"
- Accurate leak tester

Test kits include 0-35 w.c. gauge, rubber hose with 'bell' end for easy fit on orifice and plastic protective case.

Kuhlman 3-Instruments-in-One

Part Number	Description
2000A	Kuhlman instrument w/ metal case - complete
2000A-FL	1/2 pint pink fluid
2000A-GAL	Gallon of pink fluid
#12	Female Quick disconnect fitting
B25	Hand pump



ME50P-2

Part No	Description
KA50ECO-2	1/4" MPT Test Gauge 0-30" WC
ME50P-2	Gauge Test Kit 0-35" WC Non Adjustable Rubber Hose w/Bell Plastic Case
ME50P-5	Test Gauge 0-35" WC Non Adjustable Rubber Hose w/Bell No Case
ME60-2	1/4" MPT test gauge 0-35" WC Adjustable
ME60P-2	Gauge Test Kit 0-35" WC Adjustable Gauge w/ Included Screwdriver Rubber Hose w/Bell High Quality Case w/ Metal Hinge



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Leak Detection Equipment

Leak Detection Equipment and Supplies	
Part Number	Description
High Pressure	
MEJ601	MPOL x FPOL test block with 0-300 psi gauge & bleeder
PTK-1	POL test kit with 0-300 gauge & ball valve (with regulator)
PTK-1A	POL test kit with 0-300 gauge & ball valve (no regulator)
KVB Kit	Type B kit w/tool box test block (12) 1/8" & (6) 1/4" type B valves, includes 0-30 psi gauge & 12 lb regulator
V75-20	Shut off valve warning decal
Line Pressure (0-30 psi)	
ME10BTK-KIT30	30 psi Schrader valve test kit
MEJ610/30	Test adaptor 0-30 psi gauge 3/4 FPT x Schrader valve
KA511-18	0-30 psi gauge 1/8 mpt back mount
KA501-18	0-30 psi gauge 1/8 mpt bottom mount
KVB Kit	Type B kit w/tool box test block (12) 1/8" & (6) 1/4" type B valves, includes 0-30 psi gauge & 12 lb regulator
TGB	Type B connection test gauge with bleeder, 0-30 psi gauge
ME10BTK-1-01	Female swivel adaptor Schrader x 1/8" FPT
KR12	1/4" FPT high pressure regulator preset at 12 psi
V75-20	Shut off valve warning decal
Operating Pressure (0 - 35" WC)	
1222-16	Dwyer U-Tube Manometer
1222-16-D	Dwyer Oil filled U-Tube Manometer
1212	Dwyer Slack Tube Manometer
MON-15	CMI Engineering Mono tube hydro gauge Manometer
MAN-16	CMI Engineering U-Tube Manometer
2020	0-20" WC Magnehelic Gauge
2020 BUNA IC	0-20" WC Magnehelic Gauge Buna diaphragm Impregnated Case (IC)
2020LT	0-20" WC Magnehelic Gauge Low Temp to -20F
EM151	0-20" WC Electronic Manometer, w/ 18" hose & 1/8" mpt adapter
ME50P-2	Gauge test kit 0-35" WC with case, hose & adapter
ME50P-5	Gauge test kit 0-35" WC with hose & adapter, no case
ME60P-2	0-35" WC gauge test kit with hose, case, adapter adjustable
ME60P-5	0-35" WC gauge test kit with hose, adaptor adjustable

Type B Leak Testing Equipment	
Part No.	Description
SKVB	Type B Universal Test Kit with 0-35" wc tester, POL test block, 12-1/8" type B valves, 6-1/4" Type B valves and tool box
VB1	Type B Test Tap Valve, 1/8" MPT x Type B connection
VB2	Type B Test Tap Valve, 1/4" MPT x Type B connection
TGB	Type B connection test gauge w/bleeder valve, 0-30 psi gauge
HSB	Type B test adaptor w/ 1/4" fpt for manometer / oz. gauge
KR12	Replacement regulator - 1/4" fpt regulator preset at 1 psi
The SKVB Kit meets the NFPA 54 requirements for leak check testing	



SKVA



SKVB



ME10BTK



The SQTG Kits are ideal for bobtail drivers and service personnel that conduct leak check and regulator pressure testing. The SQTG kits contain four pressure gauges;

- a) 30 psi gauge for pressure tap valves in the outlet of a first-stage regulator, or intermediate pressure of and integral two-stage regulator
- b) 300 psi (with high pressure test block) for systems with no regulator pressure taps

- c) 5 psi gauge for testing set and lock up pressure in 2 psi regulators

- d) 35" WC gauge for use in second-stage regulator leak testing

The hose assembly has an inlet swivel connection for attachment to the pressure tap valve. The outlet connection is a high pressure (300 psi) industrial quick disconnect coupling for attachment to any of the included gauges.



SQTG



QTG Kits include a 30 psi and a 300 psi gauge, six pressure tap valves, a high pressure test block and a hose assembly. The hose assembly has a inlet swivel connection for attachment to the pressure tap valve and the outlet connection is high pressure (300 psi) industrial quick disconnect coupling for attachment to either the 30 psi or 300 psi gauge.

The 30 psi gauge is used when testing at a pressure tap between the first and second stage regulator or intermediate pressure of a integral two stage regulator. Where there is no regulator pressure tap to use the 30 psi gauge, the 300 psi gauge is used with the TBA or TBB high pressure test block installed between the service valve and the pigtail.



QTG

QTG Leak Check Gauge Kits

Part No.	Description
QTG127A	Type A universal kit w/ 1 - QHA hose assembly 1 - GA30N 30 psi gauge 1 - GA300N 300 psi gauge 6 - VA1 1/8" NPT x Schrader pressure tap valves 1 - TBA high pressure test block
QTG128B	Type B universal kit w/ 1 - QHB hose assembly 1 - GA30N 30 psi gauge 1 - GA300N 300 psi gauge 6 - VB1 1/8" NPT x 1/4" flare pressure tap valves 1 - TBB high pressure test block
SQTG4A	Type A universal kit w/ 1 - QHA hose assembly 1 - GA30N 30 psi gauge 1 - GA300N 300 psi gauge 1 = GA5N 5 psi gauge 1 - GA35WN 35" w.c. gauge 6 - VA1 1/8" NPT x Schrader pressure tap valves 1 - TBA high pressure test block
SQTG4B	Type B universal kit w/ 1 - QHA hose assembly 1 - GA30N 30 psi gauge 1 - GA300N 300 psi gauge 1 = GA5N 5 psi gauge 1 - GA35WN 35" w.c. gauge 6 - VB1 1/8" NPT x 1/4" flare pressure tap valves 1 - TBA high pressure test block



bergquistinc.com

Test Equipment (cont.)

Accessories for all Test Kits

MEJ605	Test adaptor female Schrader x 1/8" hose barb, brass
MEJ607-02	Test tap valve 1/4" MPT x Schrader connection
MEJ607-03/100	Warning label for 1/4" mpt Schrader valves
MEJ608B-02	Test tap valve 1/8" MPT x Schrader connection
MEJ608B-03/100	Warning label for 1/8" mpt Schrader valves
ME298	1/2" MNPT x 1/2" FNPT with 1/8" side port which has #54 drill hole
ME299	3/4" MNPT x 3/4" FNPT with 1/8" side port which has #54 drill hole
VB1	Test tap valve 1/8"mpt x 1/4" male flare "Type B" connection
VB2	Test tap valve 1/4"mpt x 1/4" male flare "Type B" connection
ME10BTKL	0-30" WC Schrader valve test kit with tool box & 10 valves
HSB	Type B test adaptor with 1/4" fFPT for manometer/oz gauge access
1328	3/8" OD test adaptor
1331	1/2" OD test adaptor
1332	5/8" OD test adaptor
TL051	Serviceman's Friend
A339	Brass adaptor 1/8" MPT x 1/8" hose barb
AC319	Soft sided carrying case for EM151
A126	3/4 oz bottle of green dye for manometer
A101	3/4 oz bottle of red gauge oil for manometer
A102	4 oz bottle of red gauge oil for manometer
BOOT2.5	Protective Rubber Boot for GA35WC and GA5 pressure gauges.
007	2 oz bottle low temp -20F pink fluid for manometer



1332



2020

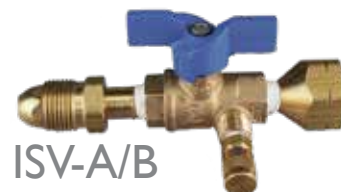
Magnehelic Gauge

Part Number	Description
2020	Magnehelic Gauge 0-20" WC w/Case & Access. (2 boxes)
2020LT	Magnehelic Gauge 0-20" WC Low Temp to -20F w/ Case & Acc (2 boxes)
A432	Case and Accessories for 2020 Magnehelic Gauge

Bergquist Leak Detector

Part No.	Description
150010	One gallon low temp.leak detector / 4 per case
150011	55 gallon drum of low temp. leak detector
150015	8 oz. bottle with daube and low temp. leak detector
150000	Pint bottle with brush top, empty
150002	Pint trigger spray dispenser, empty

ISV-A	POL Isolation Valve w/Type A Schrader Test Tap, assembled
ISV-B	POL Isolation Valve w/Type B Test Tap, brass, assembled



ISV-A/B



Service Equipment, Test Equipment



PTK-1A

Part No.	Description
PTK-1A	Male x Female POL w/ 0-300 PSI Gauge, without regulator

Note: Assembly required



MEJ595

Pressure Gauge Adapter

Part No.	Description
MEJ595	1/2" MNPT x 1/2" FNPT adapter



MEJ601

High-Pressure Test Kit

Part No.	Description
MEJ601	MPOL x FPOL test block with 0-300 psi gauge and bleeder



Serviceman's Friend

Use with flow meter and other applications. One end has 1/8" pipe thread, 1/4" pipe thread and special 5/16" x 32 thread. Opposite end has regular hose fitting & 1/8" straight pipe thread. Hose can be used on either end.

Part No.	Description
TL051	Serviceman's friend



1449

Pressure Gauge Snubber

Part No.	Description
1449	1/4" male x 1/2" female with #54 drill hole
ME202SS	1/4" male x 1/4" female with #55 orifice

Pressure snubber protects the gauge from damaging surges and moderates pulsating at the gauge.



ME299

Part No.	Description
ME298	1/2" MNPT x 1/2" FNPT, 1/8" side
ME299	3/4" x MNPT x 3/4" FNPT, 1/8" side

Note: Side has #54 drill hole and plugged. This test adapter can be installed anywhere in the system and remains part of the permanent installation.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Note: For bending soft tubing to any shape without collapsing walls. Special spring steel, nickel finish. End belled for quick spring removal.

Tubing Bender

Part No.	O.D. Tube Size	Length
102-F-04	1/4"	10"
102-F-06	3/8"	10"
102-F-08	1/2"	12"
102-F-10	5/8"	12"



Nipple Caddy

Part Number	Description
T1005	1/2" nipple caddy - 77 position count
T1007	3/4" nipple caddy - 66 position count
T1057	1/2" & 3/4" nipple caddy - 42 & 36 position count



Gauging Drill Set

Part Number	Description
G4080	Drill kit #40 to #80 & #90 reamer
G1939	Gauging drill kit #19-39



Replacement Drills

Part Number	Description
GD19 - GD80 (Each)	Individual Drills #19 to #80
G3015	#90 without handle
G3020	#90 with handle



Notes:

- 1) Cool down time, 20 seconds minimum.
- 2) Sold individually or in boxes of 10.
- 3) Additional thermocouples, thermopiles & pilot generators are available for the heating units we sell. Specify manufacturer and model number when ordering.

Universal Thermocouples Johnson Controls

Part No.	Description
AT18	18" thermocouple
AT24	24" thermocouple
AT30	30" thermocouple
AT36	36" thermocouple
AT48	48" thermocouple
AT60	60" thermocouple

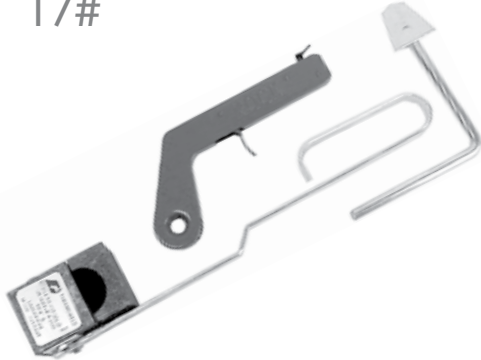


Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Anode Bags, Cadwelding Equipment, Dielectric Union



17#



CAHAA-16



6A



Anode Test Kit



Anode Test Rod



Part Number	Description
Cathodic Protection Equipment	
17#	17 lb magnesium anode bag with 13' of no 12 lead wire attached 1 for 500 gallon tank, 2 for 1,000 gallon tank
5#	5 lb magnesium anode bag with 13' of no 12 lead wire attached Generally used for piping
9#	9 lb magnesium anode bag with 13' of no 12 lead wire attached Generally used for piping
Testing and Optional Equipment	
CAHAA-16	Cadwelder
CA-15	Box of 20 weldshots with 20 discs
B117A	Disc for shots (20 per package)
CA-B133-1H	Copper sleeves (100 per box)
LRT-1	Spark igniter
Anode Clamp	#40 anode clamp
6A	Copper sulfate half cell tester
049-011	6A refill of copper sulfate - 1lb 3 oz
Lug	Copper anode lug for attaching anode to tank
Anode Test Kit	Complete kit - Digital multimeter, Copper sulfate half cell and copper sulfate crystals
Anode Extension Lead	Red 12 ft extension lead for multi meter
MCM50280-50282	Telescoping ball top anode test rod with meter adapter plate
DM200	Digital Multi Meter with leads, 600volts AC/DC
AC504	Carrying case - 3 place, hard sided



Dielectric Union
ME690-4-8

Part No	Description	OAL
ME690-4-6	Dielectric union 1/2" mnpt x 3/8" male flare	3-3/8"
ME690-6-6	Dielectric union 3/4" mnpt x 3/8" male flare	3-1/2"
ME690-4-8	Dielectric union 1/2" mnpt x 1/2" male flare	
ME690-6-8	Dielectric union 3/4" mnpt x 1/2" male flare	3-5/8"
ME690-4-10	Dielectric union 1/2" mnpt x 5/8" male flare	
ME690-6-10	Dielectric union 3/4" mnpt x 5/8" male flare	3-3/4"

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Ethyl Mercaptan Testing

GV100STR

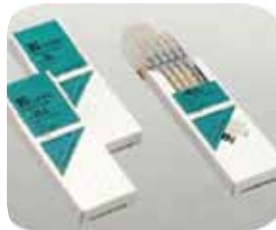
Gastec sampling air pump for Ethyl Mercaptan testing. (Includes carrying case & lifetime warranty).



72L (10 per box)

Direct read stain tubes for Ethyl Mercaptan testing. Single 100 ML stroke, wait 1 min. for PPM reading, color changes from yellow to red. Direct read concentration scale .05 ppm to 30 ppm. NFPA 58 minimum recommended odorant concentration is 3.9 ppm at 68°F. (See accompanying table for minimum recommended concentrations by temperature).

Note: 72L stain tube temperature range is 32°F to 104°F. See back for stroke and temperature correction factors.



MERCAPTESTBOTTLE

500 ml plastic test bottle for Ethyl Mercaptan with hose barb. Fill with LP vapor for 30 seconds or until bottle is purged.

1/4NATTUBE

1/4" OD plastic tubing for Ethyl Mercaptan testing, sold by the foot, use with MERCAPTESTBOTTLE, and choice of hose barb fitting/connector.

3100 VeriAir Flex Sample Bag

1 liter flexible sample bag for Ethyl Mercaptan testing. Includes 1/4" brass hose barb with shut-off. Manually inflated, 4 uses per bag, no pre-purging required.



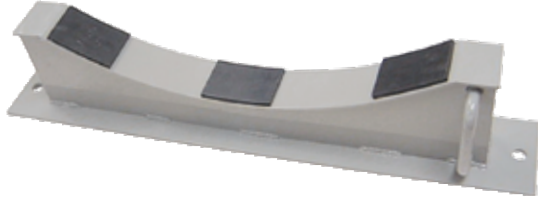
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Tank Transportation DOT Special Permit 13341



The efforts of the National Propane Gas Association (NPGA) have resulted in DOT issuing Special Permit 13341, authorizing, under certain circumstances, the transportation of 500 gallon ASME tanks containing more than 5% propane.

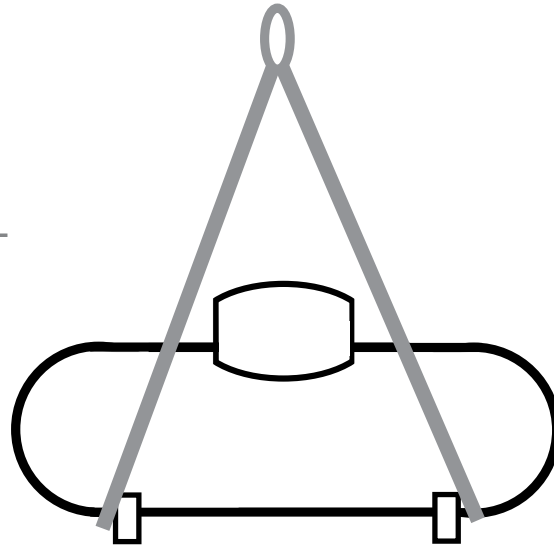
To insure compliance this new permit, contact your state association or NPGA for the full terms of this special permit.



TANK CRADLE ALUM-STEEL



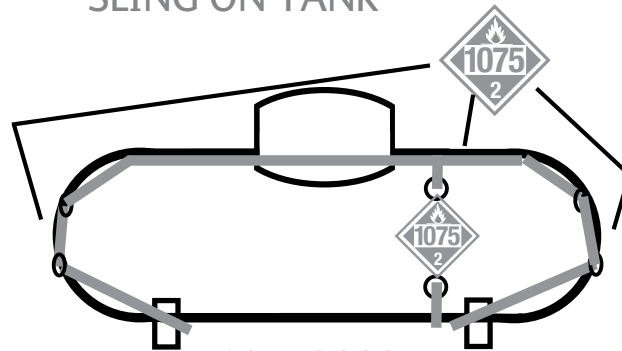
TANK STRAP



SLING ON TANK



D-RING



1075PSSS
1075 PLACARD STRAP SYSTEM

DOT Special Permit 13341 Transportation Items

Part Number	Description
TANK CRADLE ALUM	Aluminium Tank Cradle W/ Rubber Liner for 500 gal Tank
TANK CRADLE	Steel Tank Cradle W/ Rubber Liner for 500 gal Tank
1075PSSS	1075 Placard Strap System
LIFTING SLING	3" x 16ft Strap set of 2
LIFTING SLING SHORT	3" x 13ft Strap set of 2
LIFTING BRIDLE	2 Leg Bridle Lifting Sling Strap 11' overall length
D RING	D Ring Web Shackle 18,000 lb. Working Load
TANK STRAP	20 Ft. Tie down strap for ASME Tank 3300 lb. Working Load

Cradle Sold Individually

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Methanol and Methanol Equipment



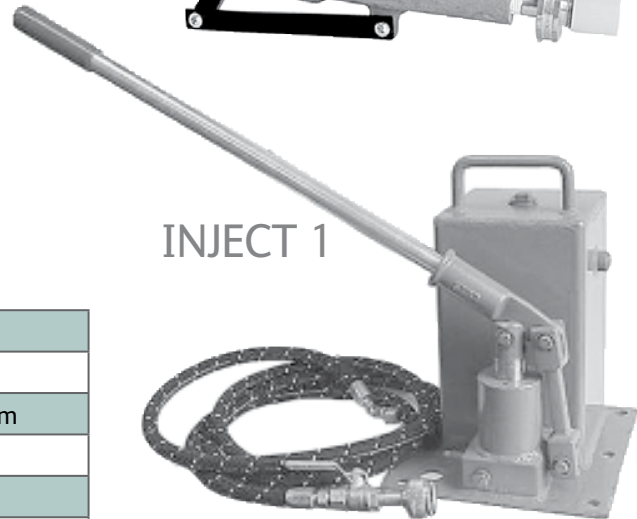
Part Number	Description
MEP700	Complete Vapor Return Methanol Injector 1-1/4" F Acme Assembly
ABJ-2	Holds 5 oz., empties in 5-10 strokes, fits POL
INJECT 1	Methanol injector pump and hose assembly, Manual, fits vapor return



MEP700



ABJ-2



INJECT 1

Part Number	Description
Methanol	55 gallon drum
1710X	Barrel pump for the 55 gallon drum
81	Faucet for a 55 gallon drum
135	Tilting drum gradle
830	Drum vent
8B-898-2	1 gallon oval style safety can
8B-29781	Funnel
7282Q	Methanol Warning decal / 3" x 5"



81



830



8B-898-2

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Lock Caps and POL Locks



ME531-50



#1



VS04



ME530
ME530-03



#1 METAL LOCK CAP

BARREL LOCK

Part Number	Description
Barrel Lock	#141 Barrel lock, stud with edn, 2 pcs
#1	Filler Valve Lock Cap 1 3/4" Acme
S4	Lock Cap for 2 1/2" Handwheel
VS04	Plastic Lock Cap 2 1/2" - 5" Handwheel
VS09	Plastic Lock Cap 6 1/2" - 10" Handwheel
ME530	Saf T Lok Male POL Lock
ME530-03	Saf T Lok Key for POL, pipe and barrell locks
ME530PL	Saf T Lok - Male POL lock with padlock cap, soft nose
ME531-50	Locking Pipe Cap 1/2" FNPT
ME531-75	Locking Pipe Cap 3/4" FNPT
ME532-38	Locking Flare Plug 3/8"
ME532-50	Locking Flare Plug 1/2"
ME533	Locking Acme Cap 1 3/4"
ME540	Hose end & quick acting valve lock - use with ME540P
ME540P-KA	Master® padlock with 2 1/2" deep shackle - keyed alike
ME540P-KD	Master® padlock with 2 1/2" deep shackle - keyed differently



ME530PL

ME540-KA
ME540-KD



ME540
ME540-KA



bergquistinc.com

Trenchers



EZ9100

E-Z TRENCH



Trenchers

Model	Engine H. P.	Cutting Depth	Weight	Comments
EZ9100	6.5 Honda	0-13"	250 lbs.	New wet clutch absorbs sudden impact, for extremely rocky areas.
J9000H	8 Honda	0-13"	250 lbs.	Standard upgrade from J3000
J1000	5 Honda	0-7"	85 lbs.	

Replacement parts available...call for assistance: 1 800 537 7518

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

O-Rings and Washers



bergquistinc.com

1E8122



1E8126



1E8128



MSW4P

1E8124



Washers

Part No	Size	Use
MSW4P	1 1/4" Acme	Forklift connector
1E8122	1 1/4" Acme	Filler and vapor valves and adapters
1E8124	1 3/4" Acme	
1E8126	2 1/4" Acme	
1E8128	3 1/4" Acme	

NOTE: ALL PICTURES ACTUAL SIZE

O-Rings

Part No	Size	Use
2-012A	POL	Mr. Heater
2-110A		Marshall Excelsior and Rego
2-111A		Fisher
2-114A	1 1/4" Acme	Internal forklift
2-210A	1 1/4" Acme	Vapor valves
2-216A	1 3/4" Acme	Filler valves
2-223A	2 1/4" Acme	Bobtail, transport vapor return
2-231A	3 1/4" Acme	Botail, transport liquid loading
2-238A	4 1/2" Acme	Refinery, barge liquid loading
2-460A	Manway cover gasket	

2-114

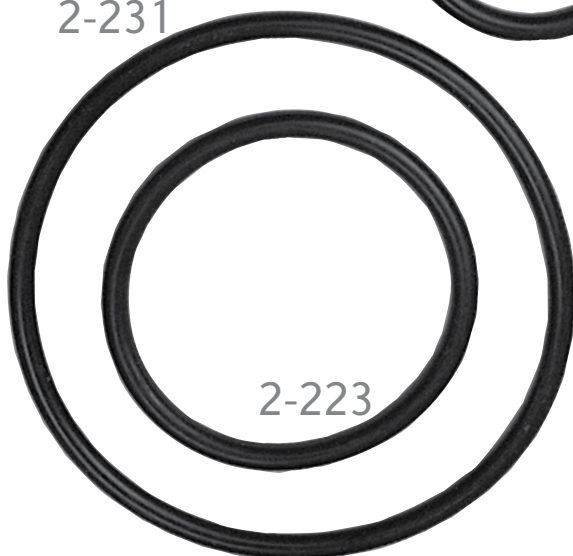


2-216



2-110
(INSIDE)

2-231



2-223

2-210

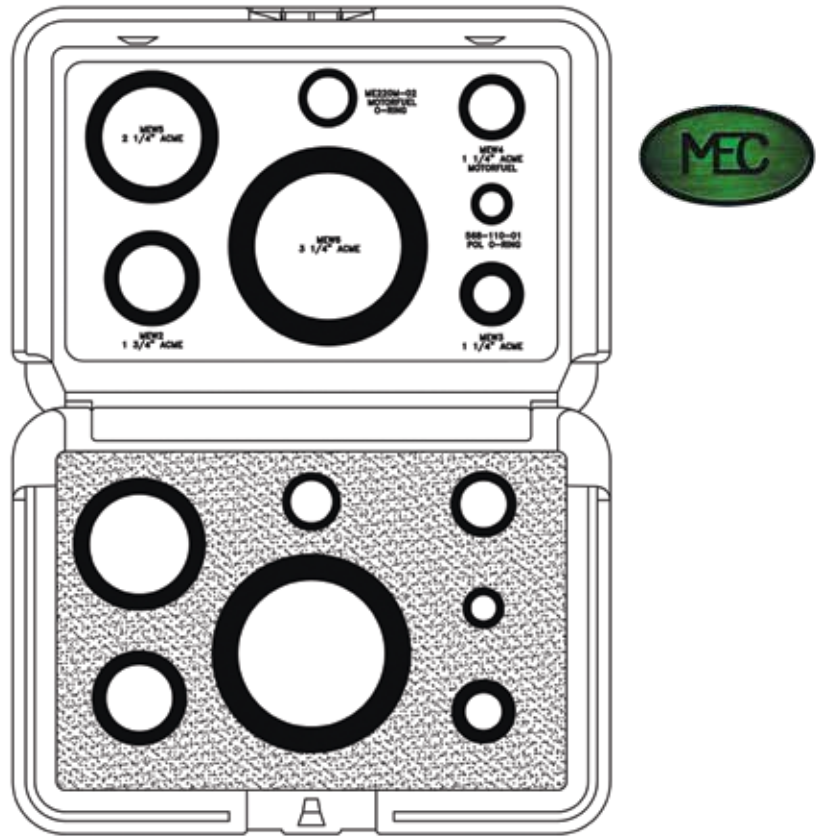


Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

MEW1 Serviceman's Replacement Seal Kit



MEW1 Serviceman's Replacement Seal Kit

Part No	Qty	Description
1E8126	10	2 1/4" acme flat gasket
1E8124	10	1 3/4" acme flat gasket
2-114A	12	1 1/4" acme internal forklift o-ring
1E8128	10	3 1/4" acme flat gasket
MSW4P	9	1 1/4" fork lift connector gasket
2-110A	12	POL O-Ring
1E8122	10	1 1/4" acme flat gasket

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



TL070

How to install the MI100 Adaptor

- Remove the existing orifice from the appliance and place it in the TL074 Safety Anvil, where it is secured by a thumb screw. Ream out the orifice using a TL070 Reamer in conjunction with the TL061 Handpiece (always turn the reamer in one direction to provide a perfectly round, properly sized hole for the Adaptor).
- Remove the orifice from the Safety Anvil and insert the Adaptor (which is tapered to allow for insertion) into the reamed hole.
- Place the orifice (Adaptor side up) on the end of the Safety Anvil or other hard surface and use the TL063 Driving Tool and a hammer to fully seat the Adaptor. Please note the TL063 Driving Tool is designed so that it will not damage the orifice channel during insertion. On the end of the Safety Anvil is a small counter-sunk hole located off center; place the head of the Adaptor into this hole.
- With the orifice in this position, insert the TL062 Crimping Tool and strike once or twice. This will flare the inlet side of the Adaptor and allow an uninterrupted flow of gas.



TL102



TL074



TL0614

Part No	Description
TL102	Adjustable jet cleaner & orifice reamer drill .125 -52
G1008	Tapered broach .008" to .017", no handle
TL061	Handle for reamer and broacher
TL062	Crimping tool for large plugs
TL063	Driving tool
TL070	Large reamer
TL074	Safety anvil
MI100-72	Orifice adapter spud w/#72 pilot hole
MI100K	Master adapter kit with 100 MI100-72, TL061, TL062, TL063, TL064, TL070, TL074



bergquistinc.com



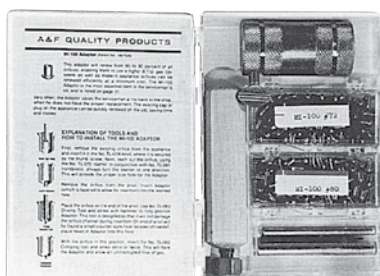
Special LP Plug and Cap Orifice Kit

Part No.	Description
MI135	LP plug and cap orifice kit



Serviceman's Orifice Assortment Kit

Part No.	Description
MI131P	Orifice assortment kit



Adapter Kit

Part No.	Description
MI100K	Orifice adapter kit
MI100-72	Replacement #72 spud

This kit is for LP only and consists of nearly 300 pieces. Including 23 popular items. All are 72 drill except PO527-80, PO539-010, and PO519, PO520. PO523 and MI-108 which are blank. A chart describing and illustrating each item is inside the cover. Includes heavy gauge steel cabinet.

The MI131 orifice cabinet contains 23 of the most commonly used orifices. Over 300 orifices in proportion to normal demand. A chart describing and illustrating each item is just inside the cover. Cabinet is made of heavy gauge steel with durable baked enamel finish, with radius bottom sections for easy removal.

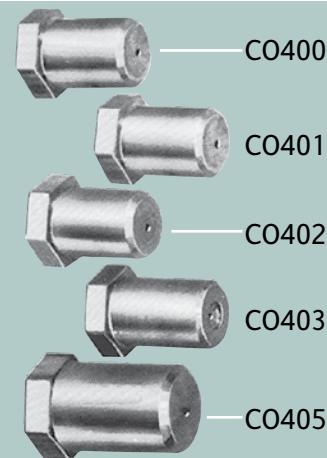
Kit includes all tools needed to assemble MI-100 adaptors.. Kit includes 100 ea. MI-100, and 1 each of the following: TL-061, TL-062, TL-063, TL-064, TL-070, and TL-074 in a plastic box.

Pilot Orifices and Plugs

Continued next page

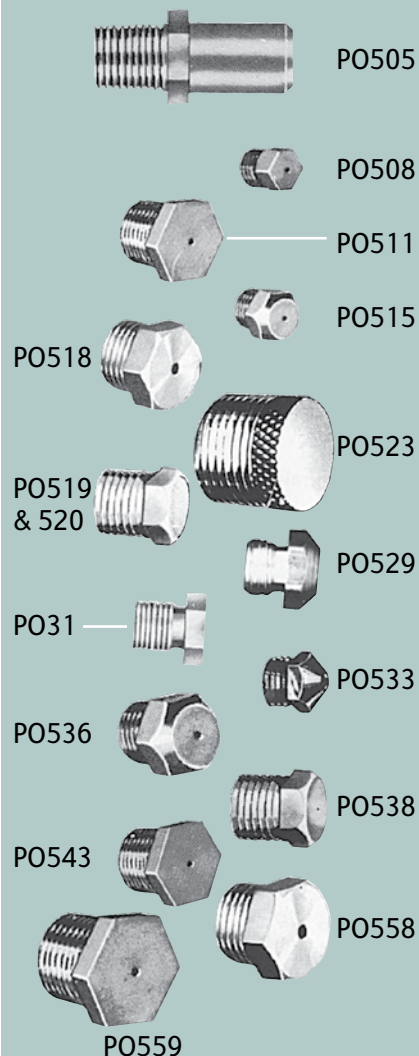
Anderson Forrester Cap Orifices

Part No.	Description
CO400	Std. flat end 3/8" x 27 thread approx. length 23/32"
CO401	Std. flat end 1/8" taper pipe thread approx. length 11/16"
CO402	Std. flat end 3/8" x 40 thread approx. length 11/16"
CO403	Std. counter bored end 3/8" x 27 thread approx. length 3/4"
CO405	Std. flat 1/2" x 20 thread approx. 15/15"



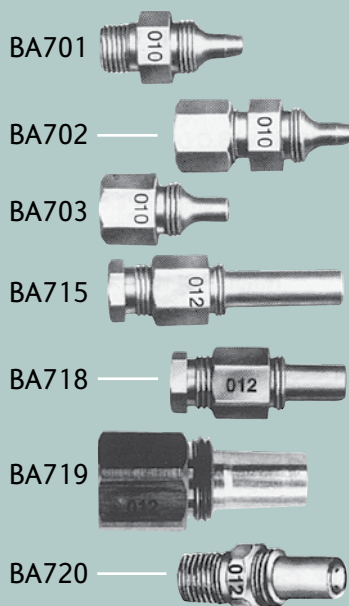
Anderson Forrester Plug Orifices

Part No.	Description
PO505	With flat end 1/8" pipe thread, 72 drill size, unless ordered otherwise
PO508	1/4" x 28 thread. LP drill size 72
PO511	7/16" x 27 thread. Drill size 72
PO515	1/4" x 32 thread. LP drill 72
PO18	11/32" x 32 thread. LP drill size 72
PO519	1/8" pipe thread
PO520	1/4" pipe thread
PO523	Manifold plug 1/8" tape pipe thread
PO529	5/16" x 27 thread LP drill size 72
PO531	11/32" x 27 thread. LP drill size 72
PO533	5/16" x 32 thread LP drill size 72
PO536	3/8" x 27 thread LP drill size 72
PO538	3/8" x 32 thread LP drill size 72
PO543	7/16" x 24 thread LP drill size 72
PO558	9/16" x 27 thread LP drill size 72
PO 559	5/16" x 32 thread LP drill size 72
PO591-72	1/8" MPT X 1/8" MPT orifice #72 drill
PO592-72	1/4" MPT x 1/4" MPT orifice #72 drill



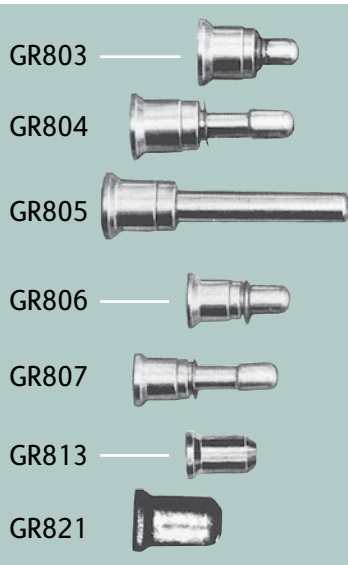
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Pilot Orifices and Plugs (cont.)



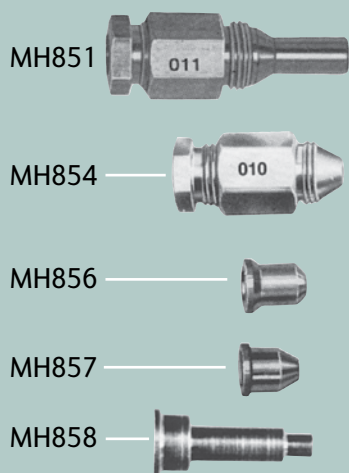
Anderson Forrester Baso

Part No.	Description
BA701	1/8" male pipe thread to 7/16" x 27 thread
BA702	1/4" compression connection to 7/16" x 27 thread. For LP only.
BA703	1/8" female pipe thread to 7/16" x thread
BA715	1/4" compression connection to 7/16" x 27 thread
BA718	1/4" compression to 7/16" x 27 thread
BA719	1/8" female pipe thread to 7/16" x 27 thread
BA720	1/8" male pipe thread to 7/16" x 27 thread - double orifice



Anderson Forrester Robertshaw

Part No.	Description
GR803	Pilot orifice - 1/4" compression connection LP drill size .009
GR804	Pilot orifice - 1/4" compression connection LP drill size .008
GR805	Pilot orifice - 1/4" compression connection LP drill size .007
GR806	Pilot orifice - 3/16" compression connection LP drill size .008
GR807	Pilot orifice - 3/16" compression connection LP drill size .008
GR813	Pilot orifice - 1/4" compression connection LP drill size .010
GR821	Pilot orifice - 1/4" tube size LP drill size .008



Anderson Forrester Minneapolis-Honeywell

Part No.	Description
MH851	Orifice fitting. 1/4" compression connection to 7/16" x 27 male thread LP drill size .011
MH854	Orifice fitting. 1/4" compression connection to 7/16" x 27 male thread. LP drill size .010
MH856	Pilot orifice. LP drill size .010
MH857	Bullet nose pilot orifice. LP drill size .010
MH858	Pilot orifice. LP drill size .010



Anderson Forrester White-Rodgers

Part No.	Description
WR900	1/4" compression connection to 1/2" x 20 thread. LP drill size .012
WR902	1/4" compression connection to 1/2" x 20 thread. LP drill size .012
WR903	1/4" compression connection to 7/16" x 20 thread. LP drill size .012
WR904	1/8" female pipe to 7/16" x 20 thread. LP drill size .010
WR905	1/4" compression connection to 7/16" x 20 thread. LP drill size .010



Kit contains 32 of the most needed pilot orifices. Over 100 pieces. Replacement orifices for Baso, Robertshaw, General Controls, Honeywell, and White Rodgers. A chart is included describing and illustrating each part and thread size, replacement part number, etc. Cabinet is made of heavy gauge steel with durable baked enamel finish with radius bottom sections for easy removal.

Anderson Forrester Pilot Orifice Assortment Kit

Part No.	Description
MI132LP	Pilot orifice assortment kit

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Gloves



523173



523193



Gloves

Part Number	Size	Color	Description
523173	Large	Orange	Textured Monkey Grip Glove, Coated Safety Cuff, Insulated
#2114	Large	Green/Gray	Leather Palm Safety Glove
2022	Large	Yellow/Blue	Flex Thumb Glove - Yellow Knit with Leather Palm
1100	Large	Brown	Brown Jersey Glove (pair)
7210	Large		Insulated PVC Safety Cuff Glove
52547	Large		Hyd-Tuf nitrile-coated, safety cuff, soft jersey lining
523193	Large	Orange	Smooth Monkey Grip Glove Coated safety Cuff, Insulated

#2114



2022



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Service Equipment



bergquistinc.com



**9420W
HARD HAT**
Vulcan Hard Hats comply with ANSI A89.1, Type 1, Class E,G, and C. The US made high-density polyethylene outer shell resists penetration, deflects falling objects, and reduces danger from electric shocks. Features include a rain trough, universal accessory slots, chinstrap holes, and detachable front sweatbands. White.

**9230
SAFETY GLASSES**
Fully adjustable temples, coated, scratch-resistant lenses, and full ANSI A89.1 compliance.

**9321
FACE SHIELD**

**9325
FACE SHIELD
ADAPTER**



9528 EAR PLUGS
(2 per bag/sold in boxes of 200 bagged cordless pair vinyl foam ear plugs). Noise reduction rating 29 decibels. Soft vinly foam. Impervious to water and perspiration.



ROUTE BOOK
Forms up to 8 1/2" x 12". Lightweight, built to last.



ICE CLEATS
Rugged, light-weight.rubber strap-on spikes give you a firm grip on a icy day. Available in three sizes to fit any boot.

ICE CLEATS	
Part Number	Description
ICE CLEATS MED	Ice Cleats, Medium, SGT-1
ICE CLEATS LARGE	Ice Cleats, Large, SGT-2
ICE CLEATS XL	Ice Cleats, Extra Large, SGT-3



**7722PL
LATEX GLOVES
FOR PAINTING**
Sold by carton only
100 pair per carton
Beaded cuff.



**DOOR
POUCH**
Access and visibility to your most important forms. Mounting hardware included.



9300-916
Boot cover, dark blue
X-large non-skid, latex free.
Material is 40 GSM spunbound,
Two pieces per polybag.
150 per box.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Fire Extinguishers, Extinguisher Accessories Wood Safety Plugs

Amerex Fire Extinguishers

Part No.	Description
417T	2 1/2 LB. ABC Extinguisher
402T	5 LB. ABC Extinguisher
441	10 LB. ABC Extinguisher
411	20 LB. ABC Extinguisher
FEC2W	Cover w/windows for 20 LB. Extinguisher
FL1	"Fire Extinguisher Inside", Decal 1 3/4" x 10"
PTAG	Plastic Inspection Tag
809	Running Board Bracket for 10 LB. Extinguisher
810	Running Board Bracket for 20 LB. Extinguisher

* Brackets can be installed vertical or horizontal.



2.5 LBS. - 20LBS.
EXTINGUISHERS



FEC2W



810



FL1



P TAG

Wood Safety Plugs

Part Number	Description	Suitable for Use On Pipe Sizes:
MEP301	3/4" x 12" Wood Plug with 5/16" hanger hole	1/8" - 1/2"
MEP302	1 1/2" x 12" Wood Plug w/ 5/16" hanger hole	1/4" - 1"
MEP303	2 1/2" x 12" Wood Plug w/ 5/16" hanger hole	1" - 2"
MEP304	3 1/2" x 12" Wood Plug w/ 5/16" hanger hole	1 1/4" - 2"
MEP305	4 1/2" x 12" Wood Plug w/ 5/16" hanger hole	1 1/4" - 3"



MEP302

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Thermometers, Chock Blocks, Utility Brackets Reflector Triangles, Throttle Control



THERMOMETER ARMOUR



TANK CAR THERMOMETER



MEJ703

Industrial Thermometers

Part Number	Dial	Stem	Connection
MEJ700	2"	4"	1/2" MNPT
MEJ701	2"	6"	1/2" MNPT
MEJ702	3"	4"	1/2" MNPT
MEJ703	3"	6"	1/2" MNPT
Tank Car Thermometer	Thermometer only		
Thermometer Armour	Armour only		

All thermometers have a temperature range of -40°F to +120°F



ME200

Part Number	Description
ME200	Aluminum Chock Block 7" wide x 9 1/2" long x 7" high
ME200B	Wheel Chock Block Holder with hardware
ME200BK	Wheel Chock Block Holder Kit w/(2) - ME200
ME200EXT	Wheel Chock Block 6" Standoff Extension Kit
ME200PIB	Wheel Chock Block Holder Kit w/ MEC Smart Interlock
ME200PIBK	Wheel Chock Block Holder Kit w/ MEC Smart Interlock and (2) ME200



MEP082

Part No.	Description
MEP082	Universal Spring Loaded Utility Bracket

Provides a safe and secure method to mount and retain hand tools such as shovels, picks, brooms or other equipment for bobtail or utility vehicles during over the road transit.



902195

Reflector Triangles	
Part No.	Description
902195	Reflector Triangles w/ Carrying Case



VCGx25

Throttle Control	
Part No.	Description
VCGX25	Self Locking Throttle Control w/25' of Cable

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Smart Interlock Technology

ME200PIBK

ME217PIB

ME890PIB

Smart Interlock
Technology

MEP801PIH
ME800
Not Included

MEP801PIK

Part No.	Description	Temperature Range	Accessories
ME200PIB	Sensor Bracket Assembly for ME200 Wheel Chocks	-20° to +160° F.	ME200EXT (Standoff Extension Kit)
ME200PIBK	Sensor Bracket Assembly with ME200 Wheel Chocks	-20° to +160° F.	
ME217PIB	Sensor Bracket Assembly for ME217 Series	-20° to +160° F.	MEP801PC/20 (20' Proximity Cable) MEP801PC/30 (30' Proximity Cable) Includes Water Tight Receptacle Plug
ME503PIB	Sensor Bracket Assembly for ME503-16 & ME252-16	-20° to +160° F.	
ME868PIB	Sensor Bracket Assembly for ME868 Valve Series	-20° to +160° F.	
MEP801PIH	Sensor Assembly with MEP801 Hose End Valve Holster	-20° to +160° F.	
MEP802PIH	Holster W/Proximity Interlock Sensor Assembly with All Weather Hood	-20° to +160° F.	
MEP801PIK	Interlock Retro Fit Kit for MEP801 Hose End Valve Holster	-20° to +160° F.	
MEP801PIKL	Low Temperature Interlock Retro Fit Kit for MEP801 Hose End Valve Holster	-50° to +160° F.	
ME890PIB	Universal Sensor Bracket Assembly for Enclosures	-20° to +160° F.	

Smart Interlock Technology Wiring Harness Kits

Part No.	Description	No. of Relays	LED Power Indicator	Inline Fuse	Cable Length	Accessories
MEP801PCK/20	Wiring Harness Kit	1	Yes	Yes	20'	MEP801PC/20 (20' Proximity Cable)
MEP801PCK/30	Wiring Harness Kit	1	Yes	Yes	30'	
MEP802PCK/20	Wiring Harness Kit	2	Yes	Yes	20'	MEP801PC/30 (30' Proximity Cable)
MEP802PCK/30	Wiring Harness Kit	2	Yes	Yes	30'	
MEP803PCK/30	Wiring Harness Kit	3	Yes	Yes	30'	Includes Water Tight Receptacle Plug

MEP802PCK/20

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Gas Detectors



CO71 ... Carbon Monoxide detector detects CO levels from 0 to 999 ppm. Tri-color warning indicates 3 concentration levels. Green when CO is 2-9 ppm. Amber when CO is 10-35 ppm and red with an audible alert at 34 ppm indicating dangerous CO levels. Handheld powered by 9V battery.



Pocket Air Check ... affordable pocket sized combustible gas leak detector. Handheld and highly sensitive makes finding gas leaks as easy as using a flashlight. Operates up to 8 hour on (2) AA batteries. Both audible and visual alarm indicators.



HS80504

HS80504...Carbon Monoxide, Propane & Methane Gas Detector

- Senses dangerous levels of carbon monoxide
- Two independent 85dB alarm sounds, one for CO, the other for methane/propane.
- Has computerized calibration to help eliminate false alarms
- Built-in self-diagnostics assures the unit is operating properly
- Plugs into standard 110-120v outlet
- Samples the air every 2.5 min.
- 5 year warranty

Part Number	Description
CD100AK	UEI combustible gas detector with soft side case
COA1	Carbon monoxide detector - smart-phone adapter with alarm
CO71	Handheld carbon monoxide detector
HS80504	110V propane and carbon monoxide gas alarm
Pocket Air Check	Pocket gas detector for NG, LP, methane and butane. (2) AA batteries



CD100AK



COA1

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

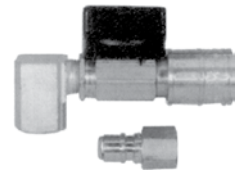
Outdoor Connections/Quick Connect Couplings



Sturgis

103176WU

Sturgis wall outlet kit with cover. 1/2" FPT X FEM quick disconnect.



103028

Sturgis 1/2" male flare outlet. Quick disconnect and shutoff.



103031

Sturgis 12' nat/lp gas hose kit with quick disconnect and shutoff. For outdoor use only

103221-144

12' outdoor appliance hose. (3/8" FPT x FFL quick disconnect).



Quick Connect Couplings

Part Number	Description
104061	1/4" FPT quick disconnect appliance connector, female end only, 250 psi max
401111	1/4" Male Quick Connect Plug x 1/4" MPT
401148	Fill Plug FPOL x 1/4" Male Quik Disconnect for Filling CGA 810
104406B	3/8" FPT quick disconnect appliance connector, female end only, 1/2 psi max
401207	Sturgis brass plug 3/8 fpt x male quick connect
104088	1/2" FPT quick disconnect appliance connector, 5 PSI, female end only
401506	1/2" FPT quick disconnect plug end only
104089	3/4" FPT quick disconnect appliance connector, 5 PSI, female end only
401606	3/4" FPT quick disconnect plug end only

Quick Connect permits instant disconnection and fast, easy connection to gas supply line without using tools. Simply pull back operating ring and the coupling springs apart and shuts off gas. For gas connection bring two parts together until they snap in place. Fusible link (thermal shutoff) cuts off gas flow in presence of fire.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Gas Outlet Boxes



bergquistinc.com

ME952IVY



Flow rate / Capacity specifications:

Model ME951 – Single Outlet*

750,000 BTU/HR – 100 psig inlet pressure/ Outlet regulated at 9.5 – 13" WC (11" nom)

450,000 BTU/HR – 10 psig inlet pressure/ Outlet regulated at 9.5 – 13" WC (11" nom)

Model ME952 – Dual Outlet*

One outlet closed

750,000 BTU/HR – 100 psig inlet pressure/ Outlet regulated at 9.5 – 13" WC (11" nom)

450,000 BTU/HR – 10 psig inlet pressure/ Outlet regulated at 9.5 – 13" WC (11" nom)

Both Outlets Open (at each outlet)

750,000 BTU/HR – 100 psig inlet pressure/ Outlet regulated at 9.5 – 13" WC (11" nom)

320,000 BTU/HR – 10 psig inlet pressure/ Outlet regulated at 9.5 – 13" WC (11" nom)

Application: Utilizes standard LP Gas outdoor appliance regulator and connector. All models provide full capacity operation at 10 PSI or higher inlet pressures for all outdoor appliances without modification or the hassles of a 20 LB cylinder. Simply thread the Type I QCC or POL connector onto the MEC Gas Box, turn on the shutoff valve and enjoy continuous LP Gas flow. Warning – appliances connected to the Gas Box MUST have a low pressure regulator with the output pressure regulated a 9.5 – 13" WC (11" nom.)

Part No	Description	Color
ME951 BLK	Single 1-5/16" M. Acme/F. POL with 1/2" FNPT Inlet	Black
ME951 GRY		Gray
ME951 IVY		Ivory
ME952 BLK	Dual 1-5/16" M. Acme/F. POL with 1/2" FNPT Inlet	Black
ME952 GRY		Gray
ME952 IVY		Ivory
Accessories		
Part No	Description	Length
MER428 - 60	Extension Hose Assembly (M. QCC/FPOL x F QCC)	60"
MER428 - 120	Extension Hose Assembly (M. QCC/FPOL x F QCC)	120"

* These are average capacities and may change slightly due to pressure drop depending on individual installation conditions and length of gas supply runs for the service line. The BTU capacities shown will be further reduced by the flow limiting device in the female Type 1 connection provided with the appliance being attached to the Gas Box.

The **MER407 Series** adapter hose has a safe, convenient,"user-friendly" design that makes it ideal for hooking up portable, high-pressure propane appliances such as camp stoves, lanterns, and table top grills to large cylinders. This hose pays for itself by eliminating the need for the small, yet expensive disposable cylinders normally used to fuel these appliances. One end of the hose is a convenient soft nose handwheel POL which requires no wrench for tightening and fits all propane vapor cylinder valves. The other end has a brass 1"20 male swivel fitting that threads into the appliance.

The **MER421 Series** adapter hose is designed to thread directly into the opening of high pressure appliances. The opposite end is engineered to go into one of our four adapter tee fittings. The appliance connection has 1"20 male swivel, while the tee fitting connection is 1"20 female swivel.

MER407-60 5'

MER407-144 12'
Soft nose
handwheel
POL x 1" 20
swivel

MER421-60 5'

MER421-144 12'
1" 20 male swivel
x 1" 20 female

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Camping Hoses

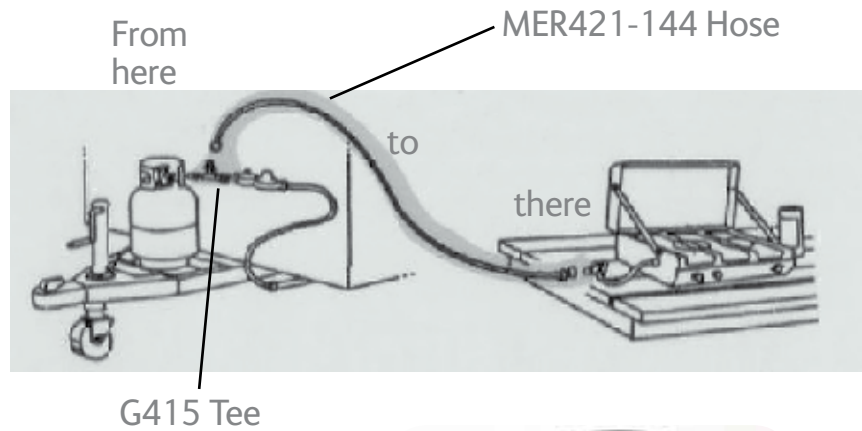
Marshall Gas Adapter Hoses and Camping Hook-Up Kits

The Flow-Longer Propane Adapter Kit MER470 allows R.V. owners to fuel small, portable, high pressure propane appliances such as camp stoves, lanterns and table top grills directly from the fuel supply on their R.V. or cottage rather than using the small, expensive, throwaway propane cylinders that are designed to normally thread into these appliances. The kit includes a listed brass tee fitting, a twelve foot flexible hose and complete directions for installation, use and storage.

The Stay-Longer Propane Adapter Kit MER472 allow motor home owners to hook up to an auxiliary propane cylinder or tank so they can stay where they want for as long as they want without having to periodically move their rig to fill the propane tank.

The standard Stay-Longer Propane Adapter Kit MER472 includes illustrated instructions for installation and proper use, a listed brass tee fitting, and a five foot flexible pigtail for hooking up the auxiliary tank or cylinder when parked for an extended stay.

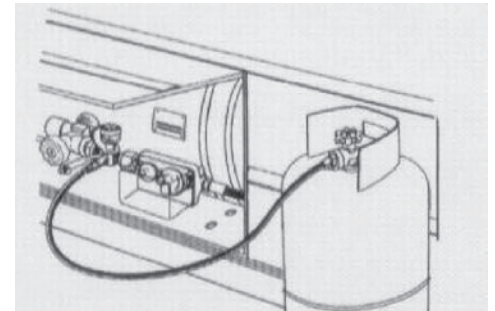
The Stay-Longer-Plus Propane Adapter Kit MER473 features an additional twelve foot hose to let the owner enjoy the additional benefits such as hooking up portable lanterns, camp stoves and table top grills.



MER470 Flow Longer Propane Adapter Kit w/ MER421-144 Appliance Hose and G415 Tee



Typical motorhome installation of Stay Longer fitting with 5' pigtail attached to reserve cylinder. Standard Kit: MER 472



MER472 and MER473 Stay Longer Propane Adapter Kits



MER421-144 Hose
MER401 Standard Pigtail
G420 Tee Fitting

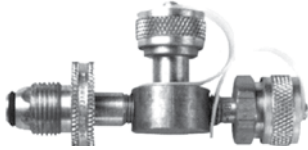
Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Adapter Tees and POL Fittings



bergquistinc.com

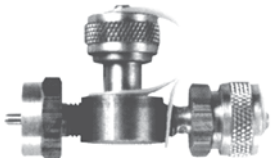
Marshall Brass Adapter Tees



G413

Tee-For-Two.

Soft nose handwheel POL x male 1/20 x male 1/20.



G414

Add-A-Tee. Female 1/20 x male 1/20 x male 1/20.



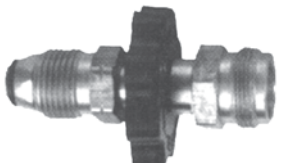
G415

Extend-A-Flow Tee. Excess flow POL x female POL x male 1/20



G420

Extend-A-Stay Tee. Excess flow POL x female POL x male 1/20 x 1/4" female inverted flare.



G475

60 orifice soft nose POL with plastic handwheel x male 1/20.



G483

Cap-A-Tee. 1/20 female cap with gasket and strap.

Marshall Brass POL Fittings



FULL FLOW POL



EXCESS FLOW POL



POL ASSEMBLY



SOFT NOSE
HANDWHEEL POL

Marshall Brass POL Fittings

Part No.	Description
G1675	1/4" MPT x full flow POL 7/8" hex nut
G1654	1/4" MPT x soft nose full flow POL with handwheel
G1690	1/4" MPT x excess flow POL 7/8" hex nut
G1653	1/4" MPT x excess flow soft nose POL with handwheel
G1689	9/16" 18 LH x excess flow POL 7/8" hex nut
G1645	9/16" LH x soft nose excess flow POL with handwheel

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



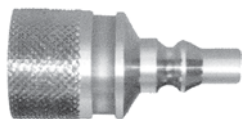
bergquistinc.com

Quick Connectors



F276281

Male quick connect plug CGA 810 X 1/4" MPT, full flow, brass



5LPAFPC

Propane cylinder fill plug 7/8" female POL x male plug for use with Gas Mate II quick connect coupling kit.

Use LP gas fill plug for filling the tank with the Gas Mate II in place (it may be necessary to purchase this if LP filling station does not have this plug).



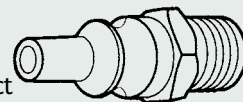
76378

Gas Mate II adapter to convert POL to quick disconnect.

Mr. Heater Quick Connectors

F276328

Propane or natural gas male excess flow plug 1/4" male pipe thread x male plug quick connect fitting. For appliances 80,000 Btu's or less. Use with F276334. CSA Certified.



F276329

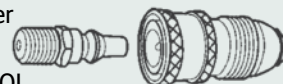
Propane cylinder filling plug. 7/8" female POL x male plug. Use with F276330. Use LP gas fill plug for filling the tank with the GasMate II in place.

CSA certified



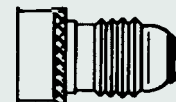
F276330

Propane gas coupling adapter kit. 1/4" male pipe thread x male plug/quick connect x POL eliminates wrenches: fits on all refillable propane cylinders: provides plug in/plug out use of appliances such as gas grills, torches, heaters cookers, etc. Assembly tool supplied. CSA certified.



F276334

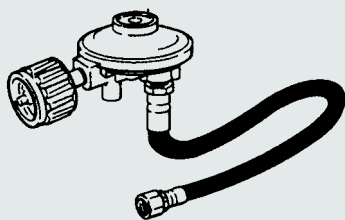
Propane gas grill " Quick Connect" adapter. Quick connect x POL. Use with Ducane, Weber and PGS gas grills or users of a Gas Mate II system. Assembly tool supplied. CSA certified.



Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

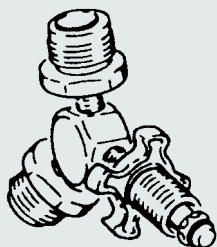
Camping Accessories

Mr. Heater Propane Accessories



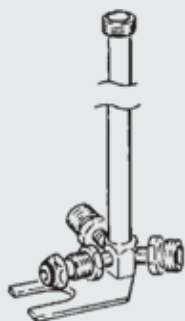
F271161

22" Replacement propane BBQ hose and regulator assembly with appliance end fitting. Regulator w/ appliance end fitting x 3/8" female flare for type 1 (QCC1) gas grill system.



F271715

Propane "Y" male adapter with Handwheel. 2-1"-20 throwaway cylinder threads x POL, allows two appliances to be hooked up to a refillable 20 lb. cylinder. Use with F273710-11 hose assembly.



F271731

30" distribution/lantern post 3-1"-20 male throwaway cylinder threads x POL, use with F273710-11 hose assembly. Hook up 3 appliances to a single refillable propane cylinder. Can hook up to new QCC-1 and old style cylinders.



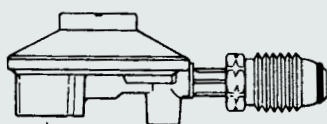
F271735

Propane "Y" female adapter with handwheel. 2-female QCC-1 x MPOL, allows two appliances to be hooked up to a bulk cylinder. Use with F273701-02, F276122-23



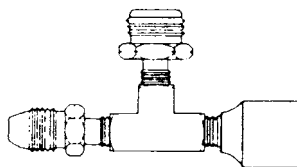
F273169

Tank stabilizer. Fits 20 lb., 30 lb., and 40 lb. cylinders; provides a "tip proof" condition while transporting cylinder in your RV, pick-up, car, etc. Required for MH14TC and MH26TC heater models.



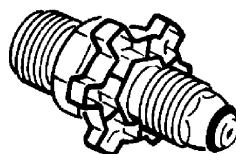
F273759

90° propane low pressure regulator. 3/8" female pipe thread x POL- 11" low pressure regulator designed with 90° angle. Will operate all standard barbecue grills and appliances.



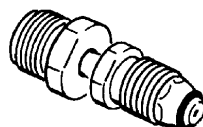
F273751

Propane adapter tee w/ cap and plug. POL x 1"-20 (w/check) throwaway cylinder thread x female POL. Conveniently use your camper/trailer propane supply for lanterns, tabletop barbecue, etc.: at parks, campsites, etc. Use with hose assembly F273710-11.



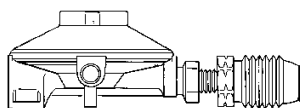
F273758

Propane bulk cylinder adapter with handwheel. 1"-20 throwaway cylinder thread x POL. Allows appliances designed for use on throwaway cylinders, and with a hose/regulator assembly to be attached directly to a bulk tank; i. e., Mr. Camper, Coleman or Century Primus stove.



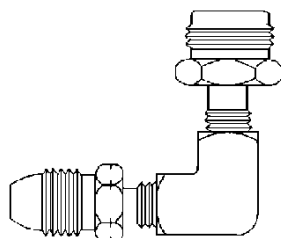
F276132

Propane bulk cylinder adapter without handwheel. 1"-20 throwaway cylinder thread x POL. Allows appliances designed for use on throwaway cylinders, and with a hose/regulator assembly to be attached directly to a bulk tank, i. e., Mr. Camper or Coleman



F276136

Propane low pressure regulator. 3/8" female pipe thread x POL- 11" low pressure regulator will operate all standard barbecue grills and appliances.



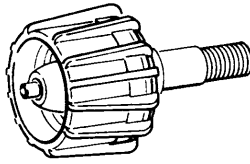
F273760

90° elbow. POL x 1"-20 male throwaway cylinder thread. Allows appliances designed for use on throwaway cylinder to be attached directly to refillable cylinder such as a lantern.

G483

Propane brass cap. Provides threaded protection for most distribution posts, tees, etc.

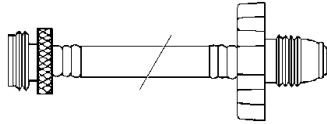
Outdoor Hoses and QCCI Fittings



F276495

Appliance end fitting. (Coupling nut x 1/4" male pipe thread. For type 1 QCC-1) gas grill systems. For appliances with 80,000 Btu's or less.

Mr. Heater Propane Hoses



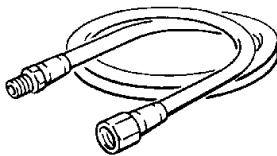
F273701

5' Propane hose assembly

F273702

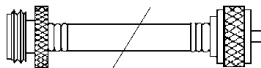
12' Propane hose assembly

Swivel 1"-20 male throwaway cylinder thread x soft nose excess flow POL w/handwheel. Mr. Heater's most popular hose. Connects appliances that are designed for disposable cylinders to a 5-20 lb. cylinder. Hand tighten swivel on both ends.



F273707

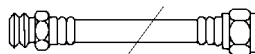
5' propane hose assembly. 1/4" male pipe thread x 3/8" female flare. Replaces most hose assemblies between regulator and fish cooker/smoker, torches or other appliances.



F273711

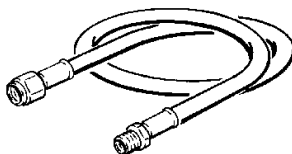
12' Propane hose assembly

Swivel 1"-20 male throwaway cylinder thread x swivel 1"-20 female throwaway cylinder thread. Used with most distribution posts or "T" and "Y" connectors as well as 1 lb. disposable cylinders. Hand tighten swivel on both ends.



F273716

22" Propane replacement barbecue hose. 3/8" male pipe thread x 3/8" female flare. Fits most barbecue gas grills.

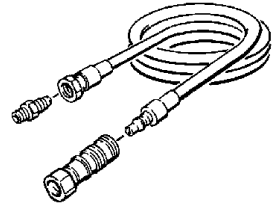


F273717

5' propane hose assembly. 1/4" female pipe thread x 1/4" male pipe thread. Commonly used on most weed burners, torches and fish cookers.

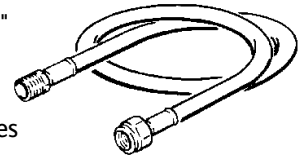
F273720

12' natural gas patio hose assembly. 3/8" female pipe thread x 3/8" male flare quick connect/disconnect with dust plug and cap. Most commonly used on connecting natural gas barbecue grills attached to decks or patios to the supply from a structure.



F276124

5' propane hose assembly. 3/8" male pipe thread x 3/8" female pipe thread. Often used to connect low pressure appliances to low pressure regulators.



MEC Propane Hoses

Part Number	Description
MER413-24	1/4" x 2' plastic hose assembly - 3/8" FFL (both ends)
MER413-30	1/4" x 30" plastic hose assembly - 3/8" FFL (both ends)
MER413-36	1/4" x 3' plastic hose assembly - 3/8" FFL (both ends)
MER413-48	1/4" x 4' plastic hose assembly - 3/8" FFL (both ends)
MER413-60	1/4" x 5' plastic hose assembly - 3/8" FFL (both ends)
MER413-72	1/4" x 6' plastic hose assembly - 3/8" FFL (both ends)
MER413-144	1/4" x 12' plastic hose assembly - 3/8" FFL (both ends)

Type 1 QCC1 Fittings



ME518



M518-25H

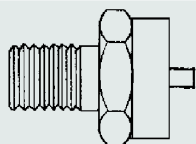
Part Number	Description
ME517-EV	Purge Adaptor Only, No threads on Outlet
ME517	QCC1 x 1/4" MNPT, 70,000 BTU, Black Nut
ME518	QCC1 x 1/4" MNPT, 200,000 BTU, Green Nut
ME518-25H	QCC1 x 1/4" Hose Barb, 200,000 BTU, Green Nut
ME519	QCC1 x 1/4" MNPT, 500,000 BTU, Red Nut

Brass Fittings

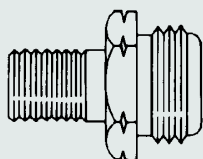


bergquistinc.com

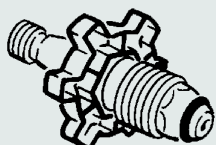
Mr. Heater Propane Brass Fittings



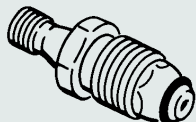
F273754
1/4" male pipe thread x 1"-20
female throwaway cylinder
thread.



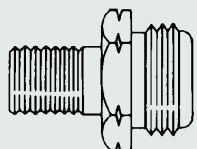
F273755
1/4" male pipe thread x 1"-20
male throwaway cylinder thread.



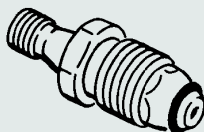
F273757
9/16" left hand thread x POL
w/handwheel.



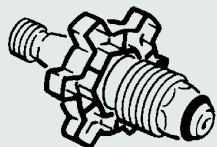
F276129
9/16" left hand thread x POL.



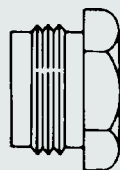
F276130
9/16" left hand thread x 1"-20
throwaway cylinder thread
w/shutoff.



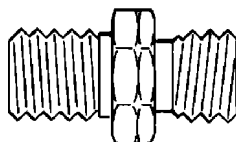
F276139
1/4" male pipe thread x POL.



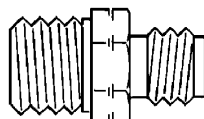
F273756
1/4" male pipe thread x POL
w/handwheel.



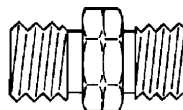
F276140
Propane male throwaway cylinder
adapter. Throwaway thread x
1/4" female pipe thread.



F276152
1/4" male pipe thread x 9/16" left
hand male thread.



F276153
3/8" male pipe thread x 9/16" left
hand male thread.



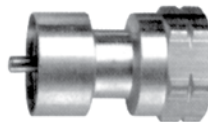
F276154
9/16" left hand male pipe thread
x 9/16" left hand male thread.

Marshall Brass Adapters



G493
9/16" 18 LH x male 1" 20 thread
with check valve and "O" ring.

G417
Male 1" 20 x 1/4" NPT with check.



G487
Reserve cylinder adapter. Female
1"20 x female POL.



G488
1/4" MPT x female 1"20.



G492
1/4" FPT x male 1"20 thread
w/"O" ring. No check valve.



bergquistinc.com

Torches

Red Dragon Vapor Torches

Part No.	Description
VT 1-32C	18,000 Btu torch kit
VT 1 1/2-0	50,000 Btu torch head
VT 1 1/2-12	50,000 Btu torch only
VT 1 1/2-12C	50,000 Btu torch kit
VT 2-23 C	50,000 Btu lawn and garden torch
VT 2-0	100,000 Btu torch only
VT 2 1/2-0	400,000 Btu torch head
VT 2 1/2-24CE	400,000 Btu economy torch kit
VT 2 1/2-30	400,000 Btu torch only
VT 2 1/2-30C	400,000 Btu torch kit
VT 3-0	500,000 Btu torch head
VT 3-6	500,000 Btu torch Head with 6" stem
VT 3-30	500,000 Btu torch only
VT 3-30C	500,000 Btu torch kit (most popular)



VT3-30C



VT2 1/2
24CE

Red Dragon Torches and Equipment

Part No.	Description
HT 1 1/2-10	50,000 Btu hand torch
HT 1 1/2-10C	50,000 Btu hand torch kit
RT 1 1/2-10	50,000 Btu roofing torch
RT 1 1/2-10C	50,000 Btu roofing torch kit
RT 2 1/2-20C	400,000 Btu roofing torch kit
HP10C	10' hose, 1/4" MNPT x 1/4" FNPT
HP25	25' hose, 1/4" MNPT both ends
H-1	Handle only, Red Dragon
H-19H	Safety valve
L2001	Spark lighter with flints
V3055P	Needle valve, 1/4" FNPT x 1/4" MNPT
V880-P	Squeeze valve with adjustable pilot
S-122	12 volt, DC, solenoid, 1/2" FNPT, 312 psig max.
S-117	115 volt, AC, solenoid, 1/2" FNPT, 300psig max.



FV-11



RT1 1/2-10C

Burners Inc. Torches and Liquid Burners

Part No.	Description
FV-10	500,000 Btu vapor torch only
FV-10-TP	500,000 Btu vapor torch kit (contractor choice)
FV-11	300,000 Btu vapor torch only
FV-11-TP	300,000 vapor torch kit (best seller)
FL-15	520,000 Btu @ 50 psi, top of the line torch
FL-1	Liquid burner, 750,000 Btu max.
FL-2	Same as FL-1 with a 36" pipe rise to valve
TK-30-A	750,000 Btu ma., sleeve type, liquid



FL-1

burners, inc.

Algas Vaporizers (cont. on next page)



bergquistinc.com



TORREXX

Model #	GPH Capacity	BTU/HR Capacity	Depth	Width	Height	Liquid Inlet Size (NPT)	Vapor Outlet Size (NPT)
Direct Fired Vaporizers							
40/40	40	3,600,000	21"	22"	41"	3/4"	1"
80/40	80	7,200,000	21"	35"	41"	3/4"	1"
120/60	120	10,800,000	21"	35"	50"	3/4"	1"
160H	160	14,560,000	22"	26"	61"	3/4"	1"
320H	320	29,120,000	41"	33"	61"	2"	2"
480H	480	43,680,000	59"	33"	61"	2"	2"
640H	640	58,240,000	78"	33"	61"	2"	2"
800H	800	72,800,000	96"	33"	61"	2"	2"
Electric Vaporizers							
Zimmer	20	1,800,000	6 1/2"	31 1/8"	10 1/4"	3/4"	1"
TX25	12.5	1,150,000	45 1/2"	12 3/4"	41"	3/4"	1"
TX50	25	2,275,000	45 1/2"	12 3/4"	41"	3/4"	1"
TX100	50	4,550,000	45 1/2"	12 3/4"	41"	3/4"	1"
TX160	80	7,280,000	51 1/2"	12 3/4"	47"	3/4"	1"
TX240	120	10,900,000	56 1/2"	12 3/4"	52"	3/4"	1"
TX320	160	14,560,000	64 1/2"	12 3/4"	59"	3/4"	1"
Accessories							
Part Number	Description						
80445	XP Auto Restart Option						
80449	XP Economy Option						
80887	Zimmer Tank Mount Kit						
80888	Zimmer Tank Mount Piping Kit						
80885	Zimmer Wall Mount Kit						
80890	Zimmer Regulator & Gauge Kit , High Temperature						
80892	Zimmer Strainer & Piping Kit						
41051	Torrex economy option						

Algas Vaporizer Repair Parts

Description	40/40	60/60	80/40	120/60
Master Rebuild Kit - prior to Oct 2002	3-0002	n/a	3-0003	n/a
Master Rebuild Kit - after Oct 2002	81111	41032	81112	41042
Repair Kit	3-0034	41030	3-0035	41040
Thermocouple & Pilot Kit	3-0014	41031	81112	41042
Pilot Assembly Kit	81113	81113	41021	41021
Thermocouple	46-5	37050	46-4	37050
Liquid Inlet Valve Kit	3-0016	3-0016	3-0016	3-0016
Capacity Control Valve Kit	3-0017	3-0017	3-0017	3-0017
Thermostat Control	41073	41073	41073	41073
Regulator (Burner Train)	34800	34800	34800	34800
9 Volt Pilot Relighter	4-1011	4-1011	4-1011	4-1011



bergquistinc.com

Algas Vaporizers (cont.), Tank Heaters

Algas-SDI vaporizers are used to provide sufficient vapor from your propane tank to your equipment. They are typically used in commercial and industrial applications with large BTU requirements

ASDI Direct Fired Vaporizers

As its name implies, a Direct Fired vaporizer uses direct flame to vaporize liquid LPG inside a heat exchanger. Requiring no electricity, the Direct Fired vaporizer utilizes LPG itself as its source of energy and provides a constant supply of LPG, regardless of the LPG composition. Its durable and safe design make it perfect for any number of agricultural and industrial applications, including animal confinement, crop drying, construction heating, manufacturing processes and many more.



80/40

ZIMMER™ Electric LPG Vaporizer

The ZIMMER's Patented design incorporates breakthrough technology never before seen in the LP-Gas industry. By departing from the status quo, Algas-SDI has created a product that is simple, reliable and affordable. You no longer have to make a choice between high quality and low price. With the ZIMMER you can have both!

POWER™ XP Electric LPG Vaporizer

The unique POWER XP vaporizer utilizes DRY ELECTRIC vaporization technology that eliminates the traditional maintenance and efficiency shortcomings of traditional electrically heated "waterbath" style units while requiring less space, less energy, and being easier to install. Over the past 15 years the POWER XP has become the industry standard for compact, high efficiency, electric vaporizers throughout the world.



ZIMMER

TORREXX™ Electric LPG Vaporizer

Set your mind at ease and deliver the reliability of LP-Gas that your customer expects with Algas-SDI's latest electric vaporizer-the TORREXX! Designed with both the discriminating LP-Gas professional and end-user in mind, the TORREXX raises the bar in performance, safety, and reliability. Compact, highly efficient, and extremely durable, the TORREXX is poised to become the new industry standard for electric vaporizers.

Second Sun Tank Heater Model SS-30 11199-01

Flameless, Gas-Powered, Catalytic Heater

Self-contained, off-grid operation

30,000 btu/hr input

Adds 2.2 mm btu/hr of vaporization

Safety controls for high pressure and high temperature

Designed for 41" to 84" diameter tanks,

1,000 - 12,000 gallons

Simple to install, 2 person install

Easy to remove for tank inspection

Meets hazardous location requirements

Can be used with propane, butane and LPG

Shipping dimensions and weight:

84"L x 24" W x 20" H, 225 lbs



Model SS-10 2202-2001

10,000 Btu/hr input 500,000 output

Fits 250 gallon - 3,900 gallon tanks

Tank diameter 30" to 41"

Shipping dimensions and weight:

42"L x 21" W x 12" H, 65 lbs

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Propane Properties



bergquistinc.com

Standard Domestic Propane Tank Specifications

Capacity	Diameter	Length	Tank Weight
Gallons (Liters)	Inches (mm)	Inches (mm)	Pounds (kg)
120 (454)	24 (610)	68 (1727)	288 (131)
150 (568)	24 (6100)	84 (2134)	352 (160)
200 (757)	30 (762)	79 (2007)	463 (210)
250 (946)	30 (762)	94 (2387)	542 (246)
325 (1230)	30 (762)	119 (3023)	672 (305)
500 (1893)	37 (940)	119 (3023)	1062 (482)
1000 (3785)	41 (1041)	192 (4877)	1983 (900)

Approximate Vaporization Capacities of Propane Tanks

Btu. per hour with 40% liquid in domestic tank system

Tank size water capacity	Prevailing air temperatures	
	20°F (-7°C)	60°F (16°C)
120	235,008	417,792
150	290,304	516,096
200	341,280	60,720
250	406,080	721,920
325	514,100	937,900
500	634,032	1,127,168
1000	1,088,472	1,978,051



bergquistinc.com

Propane Properties

Physical Properties of Commercial Propane & Butane	Commercial Propane	Commercial Butane
Formula	C₃H₈	C₄H₁₀
Normal State, 60°F. 30" Mercury	Gas	Gas
Freezing Point (or Melting), °F	-310	-210
Boiling Point, °F. at 30" Mercury	-44	32
Specific Gravity of Gas (Air = 1) at 60°F., 30" Hg.	1.52	2.00
Specific Gravity of Liquid (Water = 1) 60°F.	0.51	0.58
Weight Per Gallon of Liquid at 60°F., lbs.	4.24	4.85
Gallons Per Pound of Liquid at 60°F.	0.236	0.206
BTU Per Gallon (Vaporized)	91,500	102,600
BTU Per Pound (Vaporized)	21,560	21,180
BTU Per Cubic Foot (Vaporized)	2,520	3,260
Latent Heat of Vaporization at Boiling Point, BTU/lb.	185	166
Latent Heat of Vaporization at Boiling Point, BTU/Gal.	785	807
Specific Heat of Gas, BTU/Lb./°F. at 60°F	0.405	0.385
Specific Heat of Liquid, BTU/Lb./°F. at 60°F.	.0590	0.550
Density of Gas, Pounds per cubic foot	0.116	0.153
Density of Liquid, Pounds per cubic foot	31.7	36.0
Cu. Ft. of Gas/Gal. Liquid at 60°F., 30" Hg.	36.5	31.0
Cu. Ft. of Gas/Lb. Liquid at 60°F., 30" Hg.	8.55	6.51
Vapor Pressure, Lbs./sq. in. Gauge	
Temperature -10°F	20
0°F	28
10°F	45
32°F	60
60°F	100	12
80°F	130	22.5
100°F	190	37
120°F	240	55
Combustion Data:		
Cu. Ft. Air Required to Burn 1 cu. ft. Gas	23.5	30.0
Cu. Ft. Oxygen Required to Burn 1 cu. ft. Gas	5	6.25
Cu. Ft. Air Required to Burn 1 lb. of Gas	200	195
Ignition Temperature	920-1020	900-1000
Maximum Flame Temperature	3600	3625
Per cent Gas in Air for Max. Flame Temp.	4.4	3.5
Max. Rate of Flame Propagation in 1" Tube, inches/sec.	32	33
Limits of Inflammability, Percentage of Gas in Air Mixture		
Percent at Lower Limit	2.4	1.9
Percent at Maximum Rate of Flame Propagation	4.8	3.8
Percent at Upper Limit	9.5	8.5
Octane Number (Iso-Octane 100)	125	91
Products of Complete Combustion:		
Cu. Ft. CO ₂ per Cu. Ft. Gas	3.0	3.9
Cu. Ft. Water Vapor per Cu. Ft. Gas	4.0	5.0
Cu. Ft. N ₂ per Cu. Ft. Gas	18.5	23.6
Lbs. CO ₂ per Lbs. Gas	3.0	3.1
Lbs. H ₂ O per Lbs. Gas	1.6	1.5
Lbs. N ₂ per Lbs. Gas	12.0	11.8
Ultimate CO ₂ Per cent by Volume	13.9	14.1

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Orifice Capacities



bergquistinc.com

Orifice Capacities LP 2500 Btu - 1.53 SP . GR Natural 1050 Btu - 0.65 SP . GR			
Drill Size	Decimal Inches	LP.....Inches of H ₂ O...11	Natural.....Inches of H ₂ O...4
		BTU	BTU
80	0.0135	1273	495
79	0.0145	1469	571
1/64	0.0156	1700	661
78	0.016	1788	695
77	0.018	2263	879
76	0.02	2794	1086
75	0.021	3081	1197
74	0.0225	3536	1374
73	0.024	4024	1563
72	0.025	4366	1696
71	0.026	4722	1835
70	0.028	5476	2128
69	0.0292	5956	2314
68	0.031	6713	2608
1/32	0.0313	6843	2659
67	0.032	7153	2779
66	0.033	7607	2956
65	0.035	8557	3325
64	0.036	9053	3518
63	0.037	9563	3716
62	0.038	10087	3919
61	0.039	10625	4128
60	0.04	11176	4343
59	0.041	11742	4563
58	0.042	12322	4788
57	0.043	12916	5019
56	0.0465	15104	5869
1/32	0.0469	15365	5970
55	0.052	18888	7339
54	0.055	21131	8211
53	0.0595	24730	9609
1/32	0.0625	27286	10603
52	0.0635	28167	10945
51	0.067	31357	12184
50	0.07	34228	13300
49	0.073	37225	14464
48	0.076	40347	15678
5/64	0.0781	42608	16556
47	0.0785	43045	16726
46	0.081	45831	17809
45	0.082	46969	18251
44	0.086	51663	20075
43	0.089	55331	21500
42	0.0935	61067	23729
3/32	0.0938	61460	23882
41	0.096	64377	25015
40	0.098	67087	26068
Data supplied by Anderson-Forrester			



bergquistinc.com

Dip Tube Lengths/Line Sizing for Liquid Propane

Recommended Dip Tube Lengths for Various Cylinders.

Cylinder Size	Material	Cylinder I.D. (in.)	Cylinder Water Capacity (lb.)	Recommended Dip Tube Length (in.)
4.25 lb.	Steel	8.9	10.2	2.2
5 lb.	Steel	7.8	11.9	3.0
6 lb.	Steel	7.5	15.5	3.2
10 lb.	Steel	8.9	26.1	3.6
11 lb.	Steel	8.9	26.2	3.6
11 lb.	Steel	12.0	26.2	3.0
11.5 lb.	Steel	12.0	27.3	3.2
20 lb.	Steel	12.0	47.6	4.0
25 lb.	Steel	12.0	59.7	4.8
30 lb.	Steel	12.0	71.5	4.8
40 lb.	Steel	12.0	95.3	6.5
6 lb.	Aluminum	6.0	15.0	4.8
10 lb.	Aluminum	10.0	23.6	4.0
20 lb.	Aluminum	12.0	47.6	4.8
30 lb.	Aluminum	12.0	71.5	6.0
40 lb.	Aluminum	12.0	95.2	7.0

Notes: 1) This table indicates the approximate fixed maximum liquid level gauge dip tube lengths to be used for retrofitting cylinders with valves incorporating an overfilling prevention device. This table does not cover every cylinder design or configuration.

2) Important: If the dip tube length that is marked on the cylinder does not appear in this table, use the next longer dip tube shown in the table. Example: When the dip tube length marked on the cylinder is 3.8 in., use a 4.0 in. dip tube for the retrofit. If the dip tube length is not marked on the cylinder, contact the manufacturer for the recommended dip tube length.

Line Sizing Chart For Liquid Propane Flow in GPM

Based on 2 psig pressure drop.								Propane at 60°F.				Based on Schedule 40/80 steel / iron pipe							
Pipe (ft.)	1/2"		3/4"		1"		1-1/4"		1-1/2"		2"		2-1/2"		3"		4"		
	40	80	40	80	40	80	40	80	40	80	40	80	40	80	40	80	40	80	
10	7.1	5.0	15.0	11.3	28.3	22.2	58	47.6	87	73	169	143	269	229	475	410	967	846	
15	5.8	4.1	12.2	9.2	23.0	18.1	47.5	38.8	71	59	137	116	219	187	387	334	789	690	
20	5.0	3.5	10.5	8.0	19.9	15.6	41.0	33.5	62	51	119	100	189	161	335	289	682	597	
30	4.1	2.9	8.5	6.5	16.2	12.7	33.4	27.3	50.1	41.6	97	82	154	131	283	235	556	486	
40	3.5	2.5	7.4	5.6	14.0	11.0	28.8	23.5	43.3	35.9	84	71	133	114	236	203	481	421	
50	3.1	2.2	6.6	5.0	12.5	9.8	25.7	21.0	36.6	32.1	75	63	119	101	211	182	429	376	
60	2.8	2.0	6.0	4.5	11.3	8.9	23.4	19.1	35.2	29.2	68	57	109	92	192	166	391	343	
70	2.6	1.8	5.5	4.2	10.5	8.2	21.6	17.7	32.5	27.0	63	53	100	85	177	153	362	317	
80	2.4	1.7	5.2	3.9	9.8	7.7	20.2	16.5	30.4	25.2	59	49.6	94	80	166	143	338	296	
90	2.3	1.6	4.8	3.7	9.2	7.2	19.0	15.5	28.6	23.7	55	46.7	88	75	156	135	319	279	
100	2.2	1.5	4.6	3.5	8.7	6.8	18.0	14.7	27.1	22.5	52	44.2	84	71	148	128	302	264	
150	1.8	1.2	3.7	2.8	7.1	5.5	14.6	11.9	22.0	18.2	42.5	35.9	68	58	120	104	246	215	
200	1.5	1.1	3.2	2.4	6.1	4.8	12.6	10.3	18.9	15.7	36.7	31.0	59	49.39	104	89	212	185	
300	1.2	0.9	2.6	1.9	4.9	3.8	10.2	8.3	15.3	12.7	29.7	25.1	47.5	40.4	84	73	172	151	
400	1.0	0.7	2.2	1.7	4.2	3.3	8.8	7.1	13.2	10.9	25.6	21.6	40.9	34.6	73	66	149	130	

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Pipe Sizing for 2 PSI Service

Pipe Sizing Between 2-psi Service Regulator & Line Pressure Regulator: Nominal Pipe Size, Schedule 40									
Pipe	1/2" 0.622	3/4" 0.824	1" 1.049	1 1/4" 1.380	1 1/2" 1.610	2" 2.067	3" 3.068	3 1/2" 3.548	4" 4.026
Length, Ft.									
10	2687	5619	10585	21731	32560	62708	176687	258696	360385
20	1847	3862	7275	14936	22378	43099	121436	177800	247690
30	1483	3101	5842	11994	17971	34610	97517	142780	198904
40	1269	2654	5000	10265	15381	29621	83462	122201	170236
50	1125	2352	4431	9098	13632	26253	73971	108305	150877
60	1019	2131	4015	8243	12351	23787	67023	98132	136706
70	938	1961	3694	7584	11363	21884	61660	90280	125767
80	872	1824	3436	7055	10571	20359	57363	83988	117002
90	819	1712	3224	6620	9918	19102	53822	78803	109779
100	773	1617	3046	6253	9369	18043	50840	74437	103697
150	621	1298	2446	5021	7524	14490	40826	59776	83272
200	531	1111	2093	4298	6439	12401	34942	51160	71270
250	471	985	1855	3809	5707	10991	30968	45342	63166
300	427	892	1681	3451	5171	9959	28060	41083	57233
350	393	821	1546	3175	4757	9162	25814	37796	52653
400	365	764	1439	2954	4426	8523	24015	35162	48984
450	343	717	1350	2771	4152	7997	22533	32991	45960
500	324	677	1275	2618	3922	7554	21284	31164	43413
600	293	613	1155	2372	3554	6844	19285	28236	39336
700	270	564	1063	2182	3270	6297	17742	25977	36188
800	251	525	989	2030	3042	5858	16506	24167	33666
900	236	493	928	1905	2854	5496	15487	22675	31588
1000	222	465	876	1799	2696	5192	14629	21419	29838
1500	179	374	704	1445	2165	4169	11747	17200	23961
2000	153	320	602	1237	1853	3568	10054	14721	20507
Note: Maximum undiluted propane capacities listed are based on a 2-psig setting and a 1-psi pressure drop. Capacities in 1000 Btu/hr.									

Pipe Sizing between Second-Stage and Appliance

Pipe Sizing Between Second-Stage and Appliance														
Maximum undiluted propane capacities listed are based on 11" W.C. Capacities in 1000 Btu Hr.														
Length of Pipe or Tubing, Feet	Schedule 40 Pipe Nominal Size (inside diameter)									Copper Tubing Type L Nominal Size (inside diameter)				
	1/2" (0.622)	3/4" (0.824)	1" (1.049)	1 1/4" (1.38)	1 1/2" (1.61)	2" (2.067)	3" (3.068)	3 1/2" (3.548)	4" (4.026)	1/4" (0.375)	3/8" (0.500)	1/2" (0.625)	5/8" (0.750)	3/4" (0.875)
10	291	608	1146	2353	3525	6789	19130	28008	39018	49	110	206	348	536
20	200	418	788	1617	2423	4666	13148	19250	26817	34	76	141	239	368
30	161	336	632	1299	1946	3747	10558	15458	21535	27	61	114	192	296
40	137	287	541	1111	1665	3207	9036	13230	18431	23	52	97	164	253
50	122	255	480	985	1476	2842	8009	11726	16335	20	46	86	146	224
60	110	231	435	892	1337	2575	7256	10625	14801	19	42	78	132	203
80	94	198	372	764	1144	2204	6211	9093	12668	16	36	67	113	174
100	84	175	330	677	1014	1954	5504	8059	11227	14	32	59	100	154
125	74	155	292	600	899	1731	4878	7143	9950	12	28	52	89	137
150	67	141	265	544	815	1569	4420	6472	9016	11	26	48	80	124
200	58	120	227	465	697	1343	3783	5539	7716	10	22	41	69	106
250	51	107	201	412	618	1190	3353	4909	6839	9	19	36	61	94
300	46	97	182	374	560	1078	3038	4448	6196	8	18	33	55	85
350	43	89	167	344	515	992	2795	4092	5701	7	16	30	51	78
400	40	83	156	320	479	923	2600	3807	5303	7	15	28	47	73

Table reprinted from tables 10-26 & 10-28 in NFPA Pamphlet 54-1996



bergquistinc.com

Maximum Capacity for CSST Tables

Maximum Capacity of CSST															
CSST Tube Size	In thousands of Btu per hour of undiluted liquified petroleum gases at a pressure of 2 psi and a pressure drop of 1 psi. (Based on a 1.52 specific gravity gas)														
	EHD** Flow Designation	Tubing Length (Feet)													
		10	25	30	40	50	70	80	100	150	200	250	300	400	500
3/8"	13	426	262	238	203	181	146	140	124	101	86	77	69	60	53
-----	15	558	347	316	271	243	196	189	169	137	118	105	96	82	72
1/2"	18	927	591	540	469	420	344	333	298	245	213	191	173	151	135
-----	19	1106	701	640	554	496	406	393	350	287	248	222	203	175	158
3/4"	23	1735	1120	1027	896	806	665	643	578	477	415	373	343	298	268
-----	25	2168	1384	1266	1100	986	809	7684	703	575	501	448	411	355	319
-----	30	4097	2560	2331	2012	1794	1457	1410	1256	1021	880	785	716	616	550
1"	31	4720	2954	2692	2323	2072	1685	1629	1454	1182	1019	910	829	716	638

This table does not include effect of pressure drip across the line regulator. If regulator loss exceeds 1/2 psi (based on 13" w.c. outlet pressure), DO NOT USE THIS TABLE. Consult with regulator manufacturer for pressure drops and capacity factors. Pressure drops across a regulator may vary with flow rate. CAUTION: Capacities shown in table may exceed maximum capacity for a selected regulator. Consult with regulator or tubing manufacturer for guidance.

* Table includes losses for four 90° bends and two end fittings. Tubing runs with larger numbers of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation: $L = 1.3n$ where L is the additional length (ft) of tubing and n is the number of additional fittings and/or bends.

***EDH - Equivalent Hydraulic Diameter - A measure of the relative hydraulic efficiency between different tubing sizes. The greater the value of EHD, the greater the gas capacity of the tubing.

*Table reprinted from Table 10-30 in NFPA Pamphlet 54-1996.

With 11" W. C. System Maximum Capacity of CSST*																		
CSST Tube Size	In thousands of Btu per hour of undiluted liquified petroleum gases at a pressure of 11" W.C. and a pressure drop of 0.5" W.C. (Based on a 1.52 specific gravity gas)																	
	EHD** Flow Designation	Tubing Length (Feet)																
		5	10	15	20	25	30	40	50	60	70	80	90	100	150	200	250	300
3/8"	13	72	50	39	34	30	28	23	20	19	17	15	15	14	11	9	8	8
-----	14	99	69	55	49	42	39	33	30	26	25	23	22	20	15	14	12	11
1/2"	18	181	129	104	91	82	74	64	58	53	49	45	44	41	31	28	25	23
-----	19	211	150	121	106	94	87	74	66	60	57	52	50	47	36	33	30	26
3/4"	23	355	254	208	183	164	151	131	118	107	99	94	90	85	66	60	53	50
-----	25	426	303	248	216	192	177	153	137	126	117	109	102	98	75	69	61	57
-----	30	744	521	422	365	325	297	256	227	207	191	178	169	159	123	112	99	90
1"	31	863	605	490	425	379	344	297	265	241	222	208	197	186	143	129	117	107

* Table includes losses for four 90° bends and two end fittings. Tubing runs with larger numbers of bends and/or fittings shall be increased by an equivalent length of tubing to the following equation: $L = 1.3n$ where L is the additional length (ft) of tubing and n is the number of additional fittings and/or bends.

**EDH - Equivalent Hydraulic Diameter - A measure of the relative hydraulic efficiency between different tubing sizes. The greater the value of EHD, the greater the gas capacity of the tubing.

*Table reprinted from Table 10-29 in NFPA Pamphlet 54-1996.

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Sizing between First and Second-Stage Regulators



bergquistinc.com

Pipe Sizing Between First-Stage and Second-Stage Regulators										
Minimum undiluted propane capacities listed are based on a 10 psig first stage setting and 1 psig pressure drop. Capacities in 1,000 Btu/hr.										
Tubing Length, Ft.	Refrigeration Tubing					Copper Tubing Type L				
	Nominal Size (outside diameter)					Nominal Size (outside diameter)				
	3/8" (.0375)	1/2" (.0500)	5/8" (.0625)	3/4" (.0750)	7/8" (.0875)	1/4" (.0375)	3/8" (.0500)	1/2" (.0625)	5/8" (.0750)	3/4" (.0875)
30	299	726	1367	2329	3394	309	700	1303	2205	3394
40	256	621	1170	1993	2904	265	599	1115	1887	2904
50	227	551	1037	1766	2574	235	531	988	1672	2574
60	206	499	939	1600	2332	213	481	896	1515	2332
70	189	459	864	1472	2146	196	443	824	1394	2146
80	176	427	804	1370	1996	182	412	767	1297	1996
90	165	401	754	1285	1873	171	386	719	1217	1873
100	156	378	713	1214	1769	161	365	679	1149	1769
150	125	304	572	975	1421	130	293	546	923	1421
200	107	260	490	834	1216	111	251	467	790	1216
250	95	230	434	739	1078	90	222	414	700	1078
300	86	209	393	670	976	89	201	375	634	976
350	79	192	362	616	898	82	185	345	584	898
400	74	179	337	573	836	76	172	321	543	836
450	69	168	316	538	784	71	162	301	509	784
500	65	158	298	508	741	68	153	284	481	741
600	59	144	270	460	671	61	138	258	436	671
700	54	132	249	424	617	56	127	237	401	617
800	51	123	231	394	574	52	118	221	373	574
900	48	115	217	370	539	49	111	207	350	539
1000	45	109	205	349	509	46	105	195	331	509
1500	36	87	165	281	409	37	84	157	266	409
2000	31	75	141	240	350	32	72	134	227	350

To convert to capacities at 5 psig setting with 10% (0.5 psig) pressure drop, multiply values by 0.606. To convert to capacities at 15 psig setting with 10% (1.5 psig) pressure drop, multiply values by 1.380.
Table reprinted from NFPA Pamphlet 54-1996

Polyethylene Plastic Pipe Sizing Between First-Stage and Second-Stage Regulators						
Plastic Pipe Length, Ft.	1/2" CTS SDR 7.00 (.445)	3/4" IPS SDR 11.0 (.860)	1" IPS SDR 11.00 (1.077)	1 1/4" IPS SDR 10.00 (1.328)	1 1/2" IPS SDR 11.00 (1.554)	2" IPS SDR 11.00 (1.943)
30	762	4292	7744	13416	20260	36402
40	653	3673	6628	11482	17340	31155
50	578	3256	5874	10176	15368	27612
60	524	2950	5322	9220	13924	25019
70	482	2714	4896	8483	12810	23017
80	448	2525	4555	7891	11918	21413
90	421	2369	4274	7404	11182	20091
100	397	2238	4037	6994	10562	18978
125	352	1983	3578	6199	9361	16820
150	319	1797	3242	5616	8482	15240
175	294	1653	2983	5167	7803	14020
200	273	1539	2775	4807	7259	13043
225	256	1443	2603	4510	6811	12238
250	242	1363	2459	4260	6434	11560
275	230	1294	2336	4046	6111	10979
300	219	1235	2228	3860	5830	10474
350	202	1136	2050	3551	5363	9636
400	188	1057	1907	3304	4989	8965
450	176	992	1789	3100	4681	8411
500	166	937	1690	2928	4422	7945
600	151	849	1531	2653	4007	7199
700	139	781	1409	2441	3686	6623
800	129	726	1311	2271	3429	6161
900	121	682	1230	2131	3217	5781
1000	114	644	1162	2012	3039	5461
1500	92	517	933	1616	2441	4385
2000	79	443	798	1383	2089	3753

Notes: 1) Maximum undiluted propane capacities listed are based on a pressure of 10 psig first-stage setting and 1-psi pressure drop. Capacities in 1000 Btu/hr.
2) Dimensions in parentheses are inside diameter.



bergquistinc.com

A

Acme Adapters 202, 203
206, 207
Acme Couplings 206
Acme Spanner Wrenches 238
Accu-Max Float Gauges 145, 146
Accu-Max Float Gauges,
Trans-Max Series 147
Actuators 98-99
Rotary Cam 97
Adapters
Acme 202, 203, 206, 207
Caps 207-209
Filling 232-235
Hose End 135
Liquid Propane 163
Pipeaway 40
POL 41
Pressure Gauge 149
Quick Connect Fill 235
Single Piece POL 40
Steel Pipe 48
Unloading 148
Air Scribe 220
Algas Vaporizers 274-275
Aluminum Tubing 51
Anode Bags 248
Anode Test Kit 248
Anode Test Rod 248
Apollo Ball Valves with
Deadman Return Spring 66
Apollo 'Full Port' Bronze Ball
Valves 63
Autogas Dispenser 226-229
Autogas Pumps 167, 172
Automatic Changeover
Regulators 22-25
Auto Stop Filler Valves 74

B

Back Check Valves 108
Back Pressure Valves 178
Baldor Motors 182, 183
Ball Cone Check Valves 103
Ball Valves 61-67
Barb Fittings, Hose 158, 159
Bases, Cylinder 218
Bee Bop 240
Bell Housing Kits (High Capacity,
Flanged) 107
Bergquist Better Dispensers
224-225
Bergquist Leak Detector 245
Blackmer
Bypass Valves 179, 178
Liquefied Gas Pumps 168-172
Black Pipe Fittings, Standard 44
Blue Handle Brass Ball Valves 61
Blue Moon Filters 236
Bobtail Hose 154
Boot Covers 260
Bottom Port 2" Globe Valves 70
Brass Flare Fittings 42-43
Brass Hose Ferrules 157
Brass Pipe Fittings 162
Breakaway Couplings 230
Burners Inc. Torches 273
Bypass Valves 176-180

C

Cabinets, Cylinder Storage
222, 223
Cadwelding Equipment 248
Carburetion Equipment 200, 201
Caps
Acme 207-208
Acme Adapter 207
Acme with Flange 208
Cylinder 219

Lock 252
Relief Valve 113
Carbon Monoxide Detector 264
Cavagna
Automatic Changeover
Regulators 24-26
First-Stage Regulators 8-9
Filling Adapters 232
High Capacity Regulators 35
High Pressure Outdoor
Regulators 39
Integral Two-Stage Regulators 15
Internal Relief Valves 109
Internal Valves 87, 96
Line Pressure Regulators 18-21
Rotary Cam Actuators 97
Second-Stage Regulators 13
Single Stage Regulators 39
Two-Stage Type 524AS 26

Type 47 Low Pressure Regulators 37
Type 49 Direct Operated
Regulators 32
Type 81HP Regulators 30
Type 94HP Regulators 29
2-PSI Regulators 16-17
Centeron (Schneider Electric) Tank
Monitors 152
Check Lock and Liquid
Withdrawal Valve 75-77
Chicago Pneumatic Air Scribe 220
Chock Blocks 262
Collars, Cylinder 219
Compressors
Corken 181
Krug 185

"c" continued next page

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



"c" continued
 Connectors
 Crimped on Hose Ends 153
 Black Appliance 57
 Flexible 47
 Rubber Flex 153
 Stainless Steel Swivel 134
 Sturgis Quick 265
 Swivel 134
 9/16 Left Hand 158
 Con-Stab Fittings 52-53
 Copper and Coated
 Copper Tubing 51
 Corken Pumps
 Autogas 167
 Bulk Truck and Transport 174-175
 Compressors 181
 Coro-Flo 164-165
 Plant 173
 Repair Kits 175
 Couplings
 Acme 205-206
 Breakaway 230
 Clamp Style, Hose 154
 QCC Quick Fill 73, 233
 Quick Connect 265
 Curb Valve 55
 Cylinders 216-217
 Cylinder Equipment 218-222
 Cylinder Filling Valves 72
 Cylinder Filling Valve
 Repair Kits 72
 Cylinder Storage Cabinets 222-223

D

D-Ring 250
 Decals 211-215
 Detecto Scales 230
 Dial Kits, Universal 144
 Diagraph Stenciling Ink 211 Dielectric
 Unions 49

Dispensers, Bergquist 224-225
 Dispensers, Parafour 228-229
 Dispenser, Quick Acting
 Valve 232-233
 Domestic Gauge Parts 144
 Door Pouch 260
 Drill and Tap Kit 239
 Dust Plugs 209
 Dwyer Slack Tube
 Manometer 241
 Dwyer U-Tube
 Manometer 241

E

Ear Plugs 260
 Emergency Shutoff Valves 101-102
 ESV Tubing and Accessories 100
 Ethyl Mercaptan Testing 249
 Excelsa-Flange 120-131
 Excelsa-Flo (MEC)
 Automatic Changeover
 Regulators 22, 23
 Compact Integral Two-Stage
 Regulators 27
 First-Stage Residential
 Regulators 6-7
 First-Stage/Industrial Regulators 33
 High Pressure Regulators 28, 31
 Integral Two-Stage Regulators 14
 Second-Stage Regulators 12
 Second-Stage Commercial/
 Industrial Regulators 34-36
 2-PSI Regulators 16
 Excelsator (MEC)
 1-1/4" Threaded Internal 78-79
 1-1/4" Threaded Tee
 Internal 80-81
 1-1/2" Threaded Tee
 Internal 82-83
 2" and 3" Threaded Tee Body
 Internal 84

2" and 3" Treaded Internal 85-86
 2" and 3" Flanged Tee Body 88
 2" and 3" - 300LB 3 Way Flanged
 89
 3" Double Flanged Off-Set
 Internal 90-91
 3" Flanged Internal 92-93
 4" Flanged Internal 94-95
 Excess Flow Valves 106
 EZ Stamp 221
 EZ Trench 253

F

Fairbanks Beam Scales 230
 Ferrules 157
 Filler Valves 74
 Filters 236
 Fire Extinguishers 261
 First Aid Kit 239
 First-Stage Regulators 6-9
 Fittings, Con-Stab 52-53, 55
 Fittings, Forged Steel 45-46
 Fittings, Fusion 55
 Fittings, Plastic 53
 Fittings, Standard Black Pipe 44
 Fittings, Transition 55
 Flare Fittings 42-43
 Flaring Tools 237
 Flashlight 239
 Flexible Connectors 47
 Float Gauges 145-147
 Flow Indicating Swing Check
 Valve 104-105
 Forklift Dials 143
 Forklift Equipment 71
 Forklift Valve Accessories 109
 Four (4) Bolt Valves 65
 Four (4)-Way Valves 179
 Full Flanged Internal Pressure
 Relief Valves 112
 Full Internal Pressure Relief
 Valves 111

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



bergquistinc.com

Full Port Globe and Angle
Valves 68

G

Gas Convenience Outlet 266
Gaslog Remote Tank Monitors 150-151
Gas Detectors 264
Gas Matches 239
Gasola 240
Gastite CSST 58-60
Gauging Drill Set 247
Gauges
Accu-Max Float 145-147
Level 148
Magnehelic 245
Mono-Hydro 241
Parts 143-144
Pressure 149
Special Order 142
Thorpe Pit 220
Globe and Angle Valves, 2" 69-70
Gloves 259

H

Hammer, Spark Proof 220
Hand Pumps 185
Hand Trucks 218
Hannay Reels and Reel Parts 194-199
Hard Hat 260
High Capacity Flanged Bell Housing Kits 107
High Flow Bypass Valves Bobtail
Truck/Plant Applications 176-177
High Flow Bypass Valves
for Dispensing 176
High Flow Double Back Check
Valves 141
High Pressure Test Kits 243-244
Hogtails/Pigtails 10
Hoods, Cylinder 218
Hose
Accuflex Thermoplastic 156
Barb Fittings 158-159

Bobtail 154
Carburetion 156
Couplings, Clamp Style 154
Crimped-on-Ends 153
Crimping Tool 157
Cutter 157
Dayco 'Red' 156
Ferrules 157
High Pressure Propane 153
Low Pressure Hose 156
Motor Fuel 155
Pig's Tail 155
Smart-Hose 160
Steel Fittings 155
Transport and Facility 160
Hose End Valves 132-133
Hose End Valve Adapters 135
Hose End Valve Holster 136
Hose End Valve Lock 136
Hydrostatic Pressure
Relief Valves 113

I

Ice Cleats 260
Impco Dual Fuel Mixers,
Repair Kits 200-201
Imperial Flaring Tool 237
Indicators, Liquid Flow 103
Interlock Technology,
Smart 263
Internal Relief Valves 109-112,
Internal Valves 78-95
Internal Valve Actuators
and Accessories 97-99
Invensys Vapor Meters 193

K

Kosan+ (Cavagna)
Automatic Changeover
Regulators 24-25
First-Stage Regulators 8-9
Integral Two-Stage Regulators 15
Second-Stage Regulators 13

Type 47 Low Pressure
Regulators 37
Type 49 Direct Operated
Regulators 32
Type 81HP Regulators 30
Type 94HP Regulators 29
2-PSI Regulators 17
Krug Compressors 185
Krug Hand Pump 185
Kuhlman Service Equipment
242

L

Labels, RIN 211
LACO 240
Latex Gloves 210, 260
Leak Detection Equipment and
Supplies 243-246
LectroCount Register 190
Line Pressure Regulators 18-21
Liquid Flow Indicators 103
Liquid Meters 187-189
Liquid Propane Adapters 163
Liquid Y Strainers 47
Lock Caps 252

Contents continue next page

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

M

Magnehelic Gauge 245
 Manchester Cylinders 216-217
 Manifold, Pressure Relief Valve 115-116
 Manometers 241
 Marker, Plastic Pipe 56
 Meters and Registers
 Mid:Com 191-192
 Neptune 187-189, 191
 Positive Displacement 190
 Vapor 193
 Veeder-Root 188-189, 191
 Methanol Equipment 251
 MEW1 Serviceman's Replacement Seal Kit 255
 Mono-Hydro-Gauge 241
 Motors 182-184
 Mounting Brackets 11
 Multi-Service Combination Valves 75
 Multipurpose Filler/Withdrawal Valves (NH3/LPG) 77
 Multipurpose Valves (NH3/LPG) 76

N

Needle Valves 162
 Neptune
 Liquid Meters 187
 Registers 188-189, 191
 Nipple Caddy 247

O

O-Rings 254
 Orifice Drill 256
 Orifice Reamer 256
 Orifices, Pilot 257-258
 Outdoor Accessories
 Gas Outlet Boxes 266
 Marshall Brass Adapter Tees 271
 Marshall Brass POL Fittings 268

MEC Gas Adapter Hoses and Camping Hook-Up Kits 266-267
 Mr. Heater Propane Accessories 270-271
 Mr. Heater Quick Connectors 269
 Quick Connectors 269, 271

P

Paint 210
 Painting Tools 210
 Parker Flaring Tool 237
 Parker Propane Hose 153
 Pig's Tail 155
 Pigtails/Hogtails 10
 Pilot Orifices and Plugs 257-258
 Pipe Fittings, Brass 162
 Pipe Thread Sealant 240
 Plastic Acme Caps 209
 Plastic Fittings 52-53, 54, 55, 56, 57
 Plastic Pipe 52
 Plastic Pipe Accessories 56
 Plastic Pipe Risers 54
 Pocket Air Check 264
 POL Adapters 40-41
 POL Locks 252
 POL Tee Blocks and Tee Checks 40
 Poly Pipe and Fittings 52-57
 Positive Displacement Meter 190
 Pressure Gauges 149
 Propane Hose 153
 Protective Relief Caps 114
 Pumps
 Autogas 167
 Blackmer 168-172
 Bulk Truck and Transport 174, 175

Corken 164-167, 173-175
 Dispenser, Cylinder Filling 164-165, 168-169
 Plant 173

Q

QCC Quick Fill Coupling 233
 QCC1 Fittings, Type 1 271
 Quick Acting Valves 232-233
 Quick Jaw Hose End Valve 133

R

Reamer 256
 Red Dragon Torches 273
 Reels and Reel Parts 194-199
 Reflector Triangle 262
 Regulators
 Automatic Changeover 22-23, 24-26
 Covers 11
 First-Stage 6-9
 High Pressure Commercial/Industrial 28-33
 High Pressure/Outdoor Cooking 38-39
 Integral Two-Stage 14-15
 Line Pressure 18-21
 Low Pressure Commercial/Industrial 34-35
 Mounting Brackets 11
 Second-Stage 12, 13
 Single Stage 38
 Two-Stage Type 524AS 26
 Type 47 Series 37
 Type 49 Series 32
 Type 81 Series 30
 Type 94 Series 29
 Vent Assemblies 11
 2-PSI 16-17
 2-PSI Commercial/Industrial 35



bergquistinc.com

Relief Valve Covers 114
Remote Cellular Tank Monitors
150-152
Replacement Dials 144
RIN Labels 211
Risers
Rigid 54
Riser Materials 54
X-Risers 54
Road Warrior Meter 192
Rotary Cam Actuators 97
Rothenberger Flaring
Tool 237
Route Book 260
Rubber Flex Connectors 153

S

Safety Glasses 260
Scales 230
Screwdriver 252, 256
Seal Kit 255
Second Sun Tank Heaters 275
Semi Internal Pressure Relief
Valves 110
Sending Units 143
Sensus High Capacity
Regulator 35
Serviceman's Friend 246
Signs 211-215
Single Phase Motors 182
Smart-Hose 160
Smart Interlock 263
Snubber 246
Spanner Wrenches 238
Special Application Ball
Valves 67
Special Order Gauges 142
Stainless Steel Swivel
Connectors 134

Steel Fittings, Extra Heavy 45, 46
Steel Fittings, Standard 44
Steel Pipe Adapters 161
Steel Stamps 221
Stencil Ink 211
Stenciling, Diagraph 211
Storage Cabinets, Cylinder 222,
223
Strainers, Liquid Y 47
Straps, Cylinder 218
Straps, Tank 218
Sturgis Quick Connectors 265
Sumter Coatings 210
Swivel Connectors 134

T

Tank Cradle 250
Tank Monitors 1 50-152
Tank Strap 218
Tank Transportation DOT
Special Permit 13341 250
Tank Valves 74-75
Tee Blocks and Tee Checks,
POL 40
Thermocouples 247
Thermometers 262
Thorpe Pit Gauge 220
Three Phase Motors 183, 184
Throttle Control 262
Torches 273
Tracer Tape 56
Tracer Wire 56
Transition Fittings 55
Trenchers 253
Tub O' Towels 240
Tubing
Aluminum 51
Copper 51
CSST 58-60
Polyethylene 52
Thermoplastic 57
Tubing Bender 247

Tubing Cutter 237
Turbo-Flo LE Dry Break
Transfer Systems,
Accessories 137-139
Type 1 QCC1 Fittings 271

U

Underground Cable and Pipe
Locator 56
Universal Dial Kits 144
Universal Thermocouples 247
Unloading Adapters 148
Utility Brackets 262

V

Valves
Apollo with Deadman Return
Spring 66
Apollo 'Full Port' Bronze
Ball 63
Apollo 'Standard Port'
Bronze Ball 63
Back Check 108
Ball Cone Check 103
Blue Cap II Gas Ball with
Dielectric Union 50
Blue Handle Brass Ball 61
Bypass and Back Pressure
176-177
Check Lock and Liquid
Withdrawal 75-77
Curb 55
Cylinder 73
Cylinder Filling 72
Dispenser Quick Acting 233
Double Back Check 141
Emergency Shutoff
(ESV) 101-102
Excelsa-Flange 120-131
Excess Flow 106
External Pressure Relief 117

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291



Flow Indicating Swing
Check 104-105
Forklift Cylinder 109
Globe and Angle 69-70
Hose End 132-133
Hydrostatic Pressure
Relief 113
Internal
Cavagna Endurance 87, 96
MEC Excelerator 78-88,
90-95
Internal Pressure Relief
110-112
Internal Pressure Relief,
Forklift 109
Jomar 'Full Port' Bronze
Ball 62
Jomar Lockable Meter Stop 67
Jomar Stainless Steel Ball
62, 63
Marpac Ball 65
Multipurpose 77
Multipurpose Filler/
Withdrawal 76
Needle 162
Quick Jaw Hose End 133
Relief Manifolds 115, 116
Special Application Ball
67
Tank 74-75
Vapor Return 74
Vent 148
4-Bolt Ball 65
4-Way 179
Valve Adapters, Hose End
135
Vapor Meters and Meter
Equipment 193
Vapor Return Valves 74

Vaporizers 274, 275
Veeder-Root Registers
188-189, 191
Vent Assemblies, Regulator 11
Vent Valves 148
Vise, Cylinder 221

W

Washers 254
Wheeler Rex Pipe
Wrench 238
Wood Safety Plugs 266
Wrenches
Adjustable 238
Channellock 238
Cylinder Valve 219
J Wrench 238
Pipe 238
Spanner 238

X

X-Risers 54

Reference Section

CSST Tables, Maximum
Capacity 281
Dip Tube Lengths 279
Line Sizing for Liquid
Propane 279
Orifice Capacities 278
Pipe Sizing between Second-Stage
Regulator and Appliance 280
Pipe Sizing for 2-PSI Service 280
Propane Properties 276, 277
Tube Sizing between First and
Second-Stage Regulators 282

Ohio	Kentucky	Indiana	Missouri	Minnesota
800 537 7518	800 448 9504	800 662 3252	800 821 3878	800 328 6291

Terms

This catalog does not constitute an offer to sell by Bergquist, Inc., or the right to purchase from us.

TERMS

All orders are accepted subject to credit approval. To customers with established credit our terms are Net 30 days from the date of the invoice. A late charge of 1 1/2% per month will be assessed on all past due accounts. If credit is not established all shipments will be COD. Any charges by the transportation company will be the responsibility of the buyer.

FREIGHT

Routing of the shipment will be made by Bergquist, Inc. The customer's routing request will be followed if possible. All prices are FOB the shipping point, which is normally our warehouse. We reserve the right to ship from the manufacturer's factory or other points as needed.

SHORTAGE OR DAMAGE CLAIMS

Claims for shortages must be made within 48 hours after receipt of shipment. Broken or damaged packages must be inspected immediately for damaged goods prior to signing for delivery. Claims of damaged goods should be filed with the delivering carrier. Bergquist is not responsible for products damaged in transit

RETURNS

Bergquist has a no-squabble return policy. We will credit the purchase price for any unused standard stock merchandise. We ask that the merchandise be returned within 30 days, unused, in the original packaging for a prompt exchange or credit. To assure proper credit please call for a Return Goods Authorization Number prior to returning any equipment. All returns are subject to inspection.

WARRANTY

All products purchased from Bergquist, Inc. are subject to the manufacturers' warranty policy. In no case do we assume or admit any liability for labor, damage, leakage of other claims arising from defective goods.

TAXES

No sales or use taxes are included in our prices. Any liability for such taxes is the responsibility of the buyer.

PRICES

Prices are subject to change without notice. Shipments will be invoiced at the price in effect at the time of shipment.

CAUTION

Do not use any product in the catalog for any service other than LP Gas or NH3. If you have a need for use in a different application please call Bergquist.

WARNING

Installation, usage and maintenance of all products sold by Bergquist must be done in compliance with the manufacturer's instructions and applicable federal, state and local standards, codes, regulations and laws. Installation and maintenance should be done by qualified personnel.

The products contained in this catalog are mechanical devices that will eventually become inoperative due to wear, corrosion and other environmental conditions. Periodic maintenance and inspection are required to avoid serious injury and property damage.

Some of the products sold by Bergquist are manufactured to store, transport, transfer and use flammable liquids and gases. These products and the material they handle must be handled by experienced and trained personnel. These personnel should use accepted industry and governmental safety procedures.



OHIO

1100 King Road
Toledo, OH 43617
800 537 7518
419 865 4196
FAX 800 383 4664

KENTUCKY

1344 Memphis Junction Rd.
Bowling Green, KY 42101
800 448 9504
270 843 6882
FAX 877 331 0263

INDIANA

Crawfordsville, IN 47933
800 662 3252
765 362 1468
FAX 765 362 1450

MISSOURI

1828 Swift, Suite 350
N. Kansas City, MO 64116
800 821 3878
816 421 8331
FAX 816 421 8012

MINNESOTA

327 Marshall Road
Suite 355
Shakopee, MN 55379
800 328 6291
952 941 1620
FAX 952 942 8538

sales@bergquistinc.com

