

WEISS INSTRUMENTS

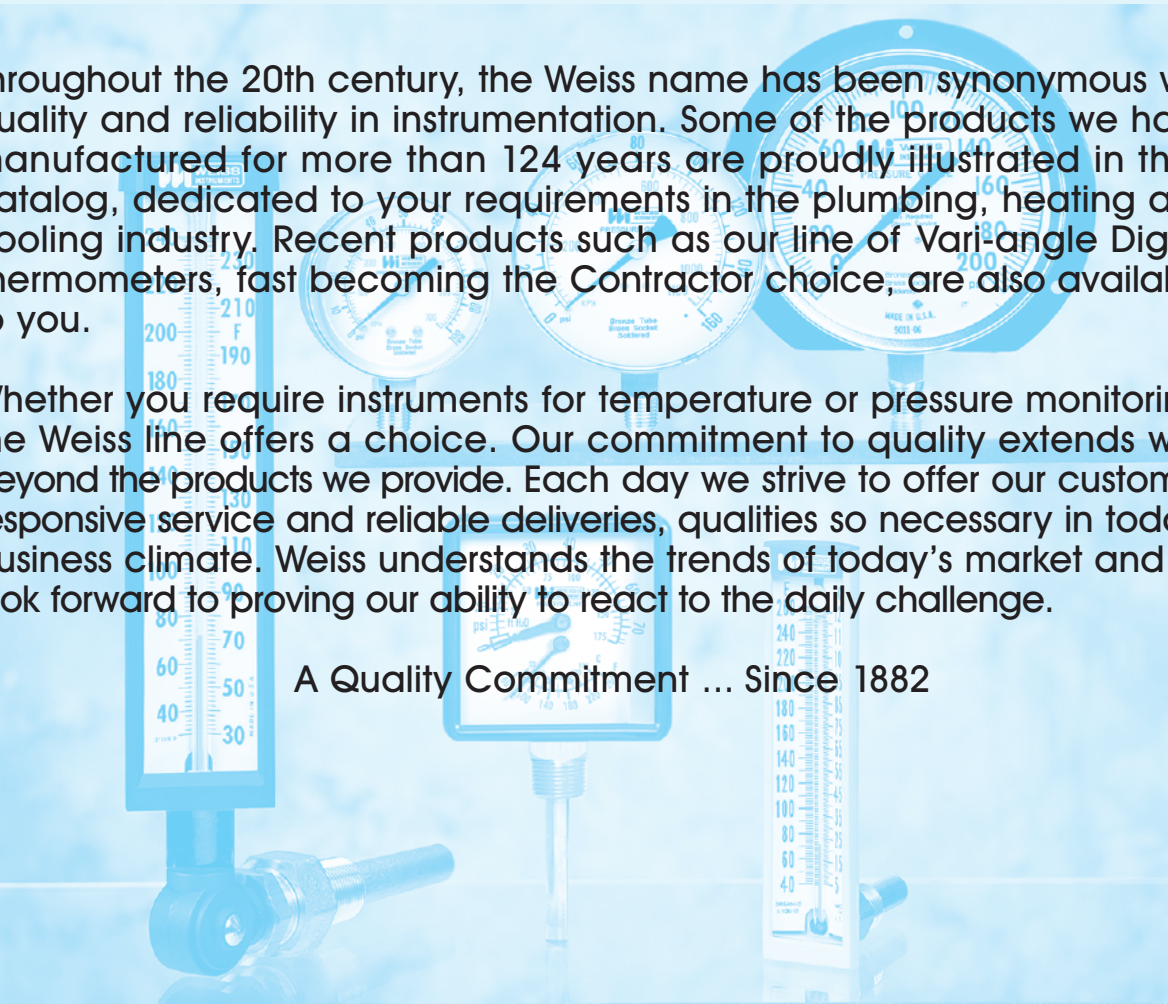
Plumbing

Heating

Cooling

Temperature, Pressure Instruments





Throughout the 20th century, the Weiss name has been synonymous with quality and reliability in instrumentation. Some of the products we have manufactured for more than 124 years are proudly illustrated in this catalog, dedicated to your requirements in the plumbing, heating and cooling industry. Recent products such as our line of Vari-angle Digital Thermometers, fast becoming the Contractor choice, are also available to you.

Whether you require instruments for temperature or pressure monitoring, the Weiss line offers a choice. Our commitment to quality extends well beyond the products we provide. Each day we strive to offer our customers responsive service and reliable deliveries, qualities so necessary in today's business climate. Weiss understands the trends of today's market and we look forward to proving our ability to react to the daily challenge.

A Quality Commitment ... Since 1882

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INDUSTRIAL GLASS THERMOMETERS

The Weiss 7" and 9" Vari-angle® is molded of GE Valox® polyester, 40% glass/mineral reinforced. This particular material has excellent strength, impact and stiffness properties which makes it perfect for the toughest applications. Some of the uses are process piping, tanks, pipelines in building construction, boilers and air ducts. The Vari-angle is a versatile thermometer that can be adjusted easily for optimum readability. Furnished in ranges up to and including 300°F.

® Vari-angle is a registered trademark of Weiss Instruments, Inc.

FILL: Weiss "Blue Ribbon Liquid" is non-toxic and environmentally safe.

CASE: Modern V-shape design with parts molded of GE Valox polyester, in black textured finish. Heavy glass protected front firmly secured against rattles by spring action.

STEM: For 31/2" stems only and ranges up to and including 300°F, the stem material is a precision die cast Zamac alloy. For ranges above 300°F, bulb chamber is a precision machined aluminum alloy with copper plated steel stem extension. *For Separable Socket connections only.*

® Valox is a registered trademark of the General Electric Co.



AIR DUCT THERMOMETERS

9" SCALE	CAT NO.
31/2" STEM	9VD35
6" STEM	9VD6
9" STEM	9VD9
12" STEM	9VD12

ADD RANGE CODE FROM RANGE TABLE LISTING. **EX: 9VD6-180 (RANGE 30-180F)**
ABOVE CAT. NUMBERS INCLUDE A REVERSIBLE DUCT MOUNTING FLANGE.

INDUSTRIAL THERMOMETERS

7" SCALE	CAT NO.
31/2" STEM	7VU35
6" STEM	7VU6
9" STEM	7VU9
12" STEM	7VU12

ADD RANGE CODE FROM RANGE TABLE LISTING. **EX: 9VU35-240 (RANGE 30-240F)**
ABOVE CATALOG NUMBERS **DO NOT INCLUDE SOCKETS** - ORDER SEPARATELY FROM THERMOWELL TABLE LISTING.

9" SCALE	CAT NO.
31/2" STEM	9VU35
6" STEM	9VU6
9" STEM	9VU9
12" STEM	9VU12

VARI-ANGLE ALUMINUM INDUSTRIAL THERMOMETERS

7" SCALE	CAT NO.	9" SCALE	CAT NO.
31/2" STEM	A7VD35	31/2" STEM	A9VU35
6" STEM	A7VD6	6" STEM	A9VU6
9" STEM	A7VD9	9" STEM	A9VU9
12" STEM	A7VD12	12" STEM	A9VU12

ADD RANGE CODE FROM RANGE TABLE LISTING. **EX: 9VD6-180 (RANGE 30-180F)**
ABOVE CAT. NUMBERS INCLUDE A REVERSIBLE DUCT MOUNTING FLANGE.

°F RANGES	SCALE DIV.	RANGE CODE
40-0-110°F	2°	110
0-120°F	1°	120
0-160°F	2°	160
30-180°F	2°	180
30-240°F	2°	240
30-300°F	5°	300
50-400°F	5°	400
50-550°F	5°	500

All Ranges 400°F (200°C) and higher are furnished in Aluminum Case.

THERMOWELLS AND ACCESSORIES

STEM LENGTH	BRASS CAT NO.	304SS CAT NO.	316SS CAT NO.	NPT	INSERTION (U)	LAG EXTENSION (L)
3 1/2"	E35-75BS	E35-75SS	E35-75316SS	3/4	2 1/2	—
6"	ER6-75BS	ER6-75SS	ER6-75316SS	3/4	5	—
9"	ER9-75BS	ER9-75SS	ER9-75316SS	3/4	8	—
12"	ER12-75BS	ER12-75SS	ER12-75316SS	3/4	11	—
3 1/2"	ESS35-50BS	ESS35-50SS	ESS35-50316SS	1/2	2	1
3 1/2"	ESS35-75BS	ESS35-75SS	ESS35-75316SS	3/4	2	1
6"	EN6-75BS	EN6-75SS	EN6-75316SS	3/4	2 1/2	2 1/2
9"	ENS9-75BS	ENS9-75SS	ENS9-75316SS	3/4	5 1/2	2 1/2
12"	ENS12-75BS	ENS12-75SS	ENS12-75316SS	3/4	8 1/2	2 1/2

Catalog No. ECC - Brass Cap and Chain Assembly for Test Well

Other Lengths, Materials and NPT Sizes Available - Consult Factory.

SIX INCH INDUSTRIAL THERMOMETERS



The Weiss 6" Navy Class Thermometer is compactly designed, ruggedly constructed and has excellent readability. The blue-reading liquid-in-glass tube maintains accuracy despite vibrations and shock.

This economical thermometer is built for general hydronic applications such as chilled and hot water lines and all small piping networks. It is especially adaptable to equipment operating under continuous vibrating conditions.

FILL: Weiss "Blue Ribbon Liquid" is non-toxic and environmentally safe.

CASE: Attractive modern design; V-shaped gray Valox case. Wide angle construction allows full scale width for easy reading.

STEM ASSEMBLY: Standard fittings of all brass construction which insures proper response to temperature changes. Standard dual threaded socket for 1/2" and 3/4" NPT. Meets all current military specifications (Army, Navy, Air Force).

NAVY CLASS THERMOWELLS

STRAIGHT FORM	CAT NO.	ANGLE FORM	CAT NO.	BRASS	304SS	316SS	STEM	INSERTION U
2" STEM	5SS2	2" STEM	5AS2	E13S-BS	E13S-SS	E13S-316SS	2"	1 5/16"
4" STEM	5SS4	4" STEM	5AS4	E13L-BS	E13L-SS	E13L-316SS	4"	3 5/16"

ADD RANGE CODE FROM RANGE TABLE LISTING. EX: 5AS2-240 (RANGE 30-240F)
ABOVE CATALOG NUMBERS **DO NOT INCLUDE SOCKETS** - ORDER SEPARATELY FROM THERMOWELL TABLE LISTING.

THRIFT LINE THERMOMETERS



Same Features as Navy Class Thermometer except:

STEM & SOCKET ASSEMBLY: All brass stem. Removable socket secured to stem by set-screw. Socket standard in brass with 1/2" NPT.

STRAIGHT FORM	CAT NO. TL5S2
ANGLE FORM	CAT NO. TL5A2

ADD RANGE CODE FROM RANGE TABLE LISTING.
EX: TL5S2-240 (RANGE 30-240F). ABOVE CATALOG NUMBERS **DO NOT INCLUDE SOCKETS** ORDER SEPARATELY FROM THERMOWELL TABLE LISTING.

THRIFT LINE THERMOWELLS

CAT NO.	NPT	INSERTION U
SF12-BS	1/2"	1 3/8"
SF34-BS	3/4"	1 3/8"

°F RANGES	SCALE DIV.	RANGE CODE
40-0-110°F	2°	110
20-120°F	2°	120
20-180°F	2°	180
30-240°F	2°	240
30-300°F	5°	300
50-400°F	5°	400

SIX INCH HOT & CHILLED WATER THERMOMETERS

The Weiss 6" Hot & Chilled Water Thermometer is our most economical offering in industrial glass thermometers. The unit features components of non-corrosive materials and its compact design and excellent readability makes the HW & CW Series ideal for a variety of general purpose applications. Typical applications include small pipe lines, residential and commercial boilers, solar heating systems.

SCALE LENGTH: 5 1/2"

SCALE: White coated aluminum with permanently baked black markings.

TUBE: Magnifying blue liquid.

CASE: Molded V-shaped GE Valox® in gray textured finish.

RANGE: Hot Water 40-260°F (2° div.) and 5-125°C (1° div.)
Chilled Water -40-120°F (2° div.) and -40-50°C (1° div.)

CONNECTION: Brass 1/2" NPT.

HOT WATER

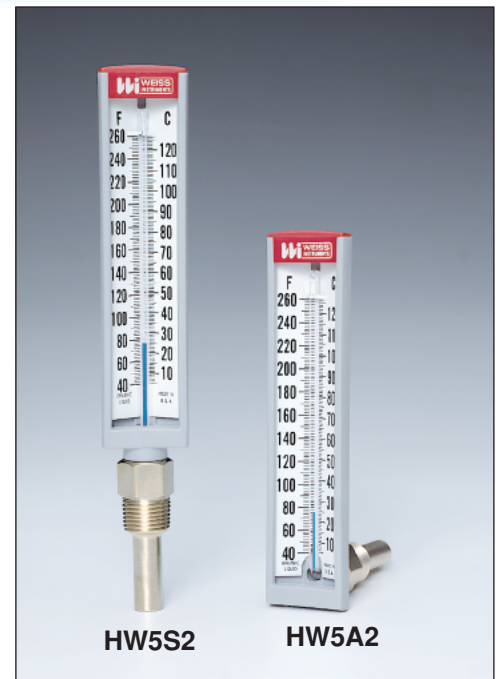
CHILLED WATER

STRAIGHT FORM
ANGLE FORM

CAT NO. HW5S2
CAT NO. HW5A2

CAT NO. CW5S2
CAT NO. CW5A2

COMPLETE WITH 1/2" NPT BRASS CONNECTION WITH 1-3/8" INSERTION.



HOT WATER BIMETAL DIAL THERMOMETERS

Weiss' most economical offering in the dial thermometers is ideal for a number of general heating applications including small pipelines. Units are furnished with 1/2" NPT brass removable socket or 3/4" sweat connection.

DESCRIPTION	DIAL SIZE	CAT. NO.	RANGE	FITTING
HOT WATER BIMETAL	2 1/2"	HWBM25	32-250 F&C	1/2" NPT
	4"	HWBM40	32-250 F&C	1/2" NPT
	2 1/2"	HWBM25S	32-250 F&C	3/4" NPT
	4"	HWBM40S	32-250 F&C	3/4" NPT



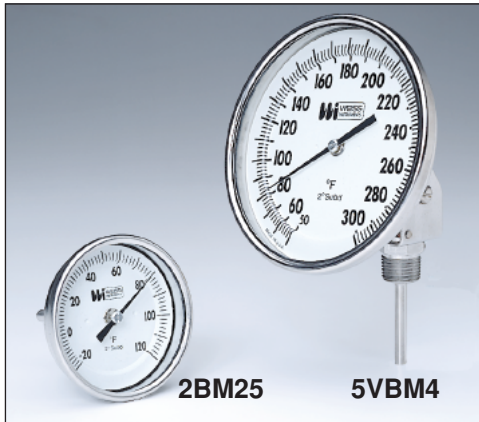
GENERAL PURPOSE THERMOMETERS

The instruments illustrated here are general purpose type. The group consists of bimetal dial, glass pocket clip and pocket digital thermometers.

DESCRIPTION	CAT. NO.	RANGE
DIAL THERMOMETERS		
POCKET DIAL	PT125	25-125F
POCKET DIAL	PT180	40-0-180F
POCKET DIAL	PT220	0-220F
1 3/4" DIAL	134-160	40-0-160F
1 3/4" DIAL	134-220	0-220F
GLASS THERMOMETERS		
POCKET GLASS	PLC120	30-0-120F
POCKET GLASS	PLC220	0-220F
DIGITAL THERMOMETERS		
POCKET DIGITAL/AUTO OFF	DP300	58-0-302F&C
POCKET DIGITAL/WATER PROOF	DP300A	58-0-302F&C



BIMETAL DIAL THERMOMETERS



Weiss offers a complete line of Commercial Bimetal Thermometers in 2", 3" and 5" dial sizes. All versions are hermetically sealed and silicone dampened for optimum performance in most industrial applications. A recalibration feature is standard on the Vari-angle types. Other 3" and 5" dial forms are available with or without a reset feature for a wider customer choice and savings.

CASE: The entire case assembly is of Type 304 Stainless Steel. To insure a moisture proof unit, the heavy glass face is securely gasketed with the case and bezel assembly, hermetically sealed.

STEM ASSEMBLY: The stem and fixed thread connection is fabricated of stainless steel. All welded construction insures complete corrosion resistance. Model BM, RBM and VBM stem diameter is 1/4" and for 2" dials the fixed thread is 1/4" NPT, 3" and 5" dials are 1/2" NPT.

MODEL 2BM - 2" Angle

CAT NO.	Stem Length*	NPT
2BM25	21 1/2"	1/4"
2BM4	4"	1/4"
2BM6	6"	1/4"
2BM9	9"	1/4"
2BM12	12"	1/4"

MODEL 3BM, 3" Angle - 3BMS, 3" Straight

CAT NO.	Stem Length*	NPT
3BM25 3BMS25	21 1/2"	1/2"
3BM4 3BMS4	4"	1/2"
3BM6 3BMS6	6"	1/2"
3BM9 3BMS9	9"	1/2"
3BM12 3BMS12	12"	1/2"

MODEL 5BM, 5" Angle - 5BMS, 5" Str

CAT NO.	Stem Length*	NPT
5BM25 5BMS25	21 1/2"	1/2"
5BM4 5BMS4	4"	1/2"
5BM6 5BMS6	6"	1/2"
5BM9 5BMS9	9"	1/2"
5BM12 5BMS12	12"	1/2"

MODEL 3RBM, 3" Angle - 3RBMS, 3" Straight

CAT NO.	Stem Length*	NPT
3RBM25 3RBMS25	21 1/2"	1/2"
3RBM4 3RBMS4	4"	1/2"
3RBM6 3RBMS6	6"	1/2"
3RBM9 3RBMS9	9"	1/2"
3RBM12 3RBMS12	12"	1/2"

Series RBM with Recalibrator

MODEL 5RBM, 5" Angle - 5RBMS, 5" Str

CAT NO.	Stem Length*	NPT
5RBM25 5RBMS25	21 1/2"	1/2"
5RBM4 5RBMS4	4"	1/2"
5RBM6 5RBMS6	6"	1/2"
5RBM9 5RBMS9	9"	1/2"
5RBM12 5RBMS12	12"	1/2"

MODEL 3VBM, 3" Vari-angle

CAT NO.	Stem Length*	NPT
3VBM25	21 1/2"	1/2"
3VBM4	4"	1/2"
3VBM6	6"	1/2"
3VBM9	9"	1/2"
3VBM12	12"	1/2"



MODEL 5VBM, 5" Vari-angle

CAT NO.	Stem Length*	NPT
5VBM25	21 1/2"	1/2"
5VBM4	4"	1/2"
5VBM6	6"	1/2"
5VBM9	9"	1/2"
5VBM12	12"	1/2"

*Includes thread. Longer stem lengths available.

NOTE: When ordering Silicone Filled Bimetals add Prefix **SF** to appropriate Catalog No. **Ex:** SF5RBM25

FAHRENHEIT	FIG. INTER.	SCALE DIV.	CELSIUS	FIG INTER.	SCALE DIV.	DUAL SCALE - F&C	
-80/0/120	20°	2°	-50/0/50	10°	1°	-80/0/120F	-60/0/50C
-20/0/120	20°	2°	**0/50	5°	1/2°	-20/0/120F	-30/0/50C
**30/130	10°	1°	0/100	10°	1°	**30/130F	0/55C
0/200	20°	2°	0/150	10°	1°	0/200F	-15/0/90C
0/250	20°	2°	0/200	20°	2°	0/250F	-20/0/120C
50/300	20°	2°	0/300	50°	2°	50/300F	10/150C
50/400	50°	5°	*0/450	50°	5°	50/400F	10/200C
50/550	50°	5°	**100/550	50°	5°	50/550F	10/260C
*100/800	100°	10°				*100/800F	40/425C
**200/1000	100°	10°				**200/1000F	100/540C

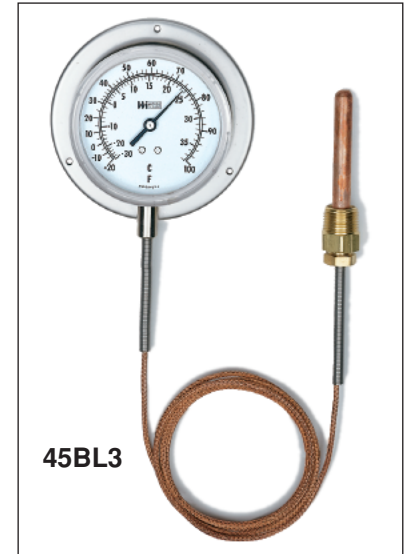
* Satisfactory for continuous service up to 800°F or 425°C. Can be used for intermittent service from 800-1000°F or 425-500°C.

* Minimum stem length for these ranges is 4". ** Minimum stem length is 4" Straight and Vari-angle Form.

SEPARABLE SOCKETS FOR 3" AND 5" ONLY				DUCT MOUNTING FLANGES	
CAT. NO.	STEM LGTH.	INSERT LGTH.		CAT. NO.	INSERTION
3/4" NPT	B25	21 1/2	1	BF3	STANDARD
	B35	4	21 1/2	BF3-2	EXTENSION NECK
	BR6	6	41/2		
	BR9	9	71/2		
	BR12	12	101/2		
CAT. NO.	STEM LGTH.	INSERT LGTH.	LAG EXT.		
3/4" NPT	BSS35	4	11/2		
	BN6	6	21/2		
	BN9	9	41/2		
	BN12	12	71/2		

VAPOR ACTUATED DIAL THERMOMETERS

Offered in 3 1/2" and 4 1/2" dial sizes, these thermometers are furnished in four stainless steel case configurations for direct, surface or panel mounting. The following coding chart illustrates a wide variety of bulb styles, capillaries and process connection fittings. The versatility of configurations makes these thermometers well suited to a wide range of applications including hot and chilled water pipeline systems, tanks and air ducts.



CODE	CATALOG NO.	DESCRIPTION
I	35	CASE SIZE 3 1/2" Case
	45	4 1/2" Case
II	V	CASE TYPE Vari-angle® Direct Mount
	B	Back Flange, Surface Mount
	R	Semi-flush, Panel Mount
	Z	Adjustable Bracket, Remote Mount
III	A	CASE CONNECTION Adjustable
	B	Back Connection
	R	Semi-flush, Panel Mnt., Stainless Steel
	L	Lower Connection
IV	3	CASE WINDOW Snap in Lexan with "O" Ring
V		THERMAL SYSTEM
	0	Bulb Type Union Bulb Material Copper (Vari-angle only) Capillary Material Capillary Protection
	2	Plain Copper Cu. Braid
	3	Plain 316 S.S. 316 S.S. None
	5	Union Copper Copper Cu. Braid
	7	Union 316 S.S. Copper Cu. Braid
	8	Union 316 S.S. 316 S.S. Intlock Armor*
	9	Union 316 S.S. 316 S.S. None
	*At bulb end 31 1/2" long. All systems have S.S. Spring capillary protection at indicating head. No. 5-7 system include S.S. spring at bulb end - S.S. jam nut standard on No. 8-9 system.	
VI		BULB SELECTION
		Thermal System No. 5 Thru 9 (Union) Thermal System No. 2 & 3 (Plain) Max. System Len.
	1	Dia. Length Dia. Length
	2*	7/16 2.5" N.A. N.A. 10Ft.
	3*	7/16 3.4" 3/8 3.4 25Ft.
	4	7/16 5.4" 3/8 4.9 50Ft.
	5	7/16 7.4" 3/8 7.9 99Ft.
	X	7/16 9.4" 3/8 9.4 99Ft.
		1/8" x 180" Averaging Bulb 10Ft.
	6	N.A. N.A. 3/8 2.5 05Ft.
	*Only No. 2&3 bulbs are options for Vari-angle.	

STANDARD RANGES*		
-40-0-60F	0-150F	30-300F
-20-0-100F	0-180F	100-350F
-40-0-110F	40-240F	60-260F
*All Ranges available in Dual Scale, F&C.		

VII		PROCESS CONNECTION FITTING
	1	Union Connection 1/2" NPT
	2	Union Connection 3/4" NPT
	3	Separable Socket 1/2" NPT
	4	Separable Socket 3/4" NPT
	5	Separable Socket 1/2" NPT with 2" Lag Extension (No.3 Bulb only)
	6	Separable Socket 3/4" NPT with 2" Lag Extension (No.3 Bulb only)
VIII	7	Air Duct Flange, Union Conn., Aluminum only
	9	Plain bulb, no fitting
		PROCESS CONNECTION MATERIAL
	1	Brass
	2	304 Stainless Steel
IX	3	316 Stainless Steel
	5	Aluminum (Air Duct Flange only)
	0	None - Plain Bulb
	See Example Below	SYSTEM LENGTH SPECIFYING
A-B		9A - Use 2 digits: EX. 05, 10, 99 for length required. 9B - Use FT for feet, use IN for inches

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES VTR

CODE I-IV (HEAD ASSY) CODE V-VIII (THERMAL SYSTEM) CODE IX A - B (CAPILLARY LENGTH)

4 5 B L 4 — **5 2 3 1** — **0 5 F T**

RANGE
40-240 F

EXAMPLE FOR OBTAINING COMPLETE CATALOG NUMBER FROM CODES - SERIES VTA

CODE I-IV (HEAD ASSY) CODE V-VIII (THERMAL SYSTEM)

4 5 V A 3 — **0 2 3 1**

RANGE
40-0-60 F&C

DIGITAL VARI-ANGLE THERMOMETER



SPECIFICATIONS

CASE	Hi-impact ABS	
RANGE	-50/300°F -45/150°C	
DISPLAY	3/8" LCD digits, wide ambient formula	
ACCURACY	1% of reading or 1° whichever is greater	
RESOLUTION	1/10° between -19.9/199.9°F (-28/93 °C)	
RECALIBRATION	Internal potentiometer	
LUX RATING	10 Lux (one foot-candle)	
UPDATE	10 seconds	
AMBIENT OPERATING	-30/140°F (-35/60 °C)	
AMBIENT TEMP ERROR	Zero	
HUMIDITY	100%	
SENSOR	Glass passivated thermistor	
STEM ASSEMBLIES	INDUSTRIAL GLASS	BIMETALLIC
	Full conformance with Fed Spec GG-T-321D. Fully interchangeable with Industrial Glass Thermometers.	Full conformance with ASME B40.3-1990. Fully interchangeable with Bimetallic Dial Thermometers.

The Weiss patented* Digital Vari-angle® Thermometer maintains the strict requirements for thermometers in hydronic applications in that they're self-powered and within 1% accuracy. This reliable series of digital thermometers offers the added feature of stem assemblies for direct replacement of mercury-in-glass types where environmental concerns exist. Whether on new installations or replacements, our Vari-angle Digital Thermometers include the same level of quality that the industry associates with the Vari-angle trademark and all Weiss Products.

*Patent No. 5,196,781 ©Vari-angle is a registered trademark of Weiss Instruments, Inc.

CAT. NO.	DESCRIPTION	IDN
DVU35	3 1/2" Industrial Stem	62100
DVU6	6" Industrial Stem	62110
E35-75BS*	3/4" NPT 3 1/2" Socket	20300
ER6-75BS*	3/4" NPT 6" Socket	20500
EN6-75BS*	3/4" NPT 6" Ext. Socket	20501
DVBM25	2 1/2" x 1/2" NPT Stem	62120
DVBM4	4" x 1/2" NPT Stem	62130
DVBM6	6" x 1/2" NPT Stem	62140
DVD6	6" Stem w/ Duct Mtg. Flange	62310
DVD9	9" Stem w/ Duct Mtg. Flange	62320

*For use with DVU thermometers on new installations.

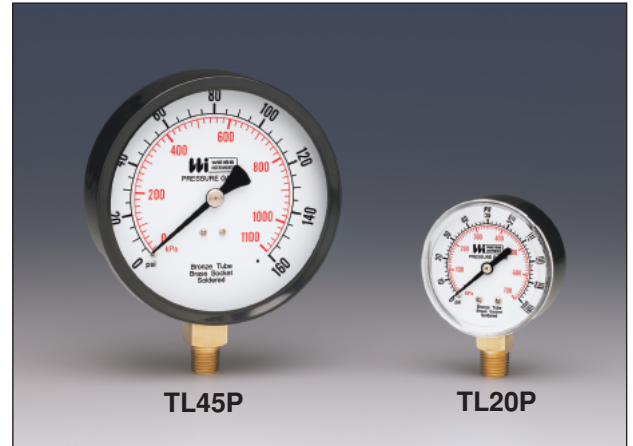


Cat No.	Description	IDN
DVC-4	Outdoor Waterproof Cover (4 pcs per pack)	62410

TRADE LINE PRESSURE GAUGES

Weiss TL Gauges are intended for general service conditions, for pressure or vacuum on air, oil, water, gas or other mediums that do not attack brass. TL Gauges are furnished in drawn steel cases, finished in black. The 1 1/2" dials are supplied with 1/8" NPT and 2" dial versions are available with 1/4" or 1/8" NPT connections. All other dial sizes are 1/4" NPT. All gauges conform with ANSI B40.1 accuracy Grade B-2% mid scale.

PRESSURE		
RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.5	1
0-30	0.5	5
0-60	1	5
0-100	2	10
0-160	5	20
0-200	5	20
0-300	5	30
0-400	10	50
0-600	10	50
COMPOUND		
30-0-15	1" Hg.-0.5p	5" Hg.-3p
30-0-30	1" Hg.-1p	10" Hg.-5p
30-0-60	2" Hg.-1p	10" Hg.-10p
30-0-100	5" Hg.-2p	15" Hg.-10p
30-0-150	5" Hg.-2p	30" Hg.-20p
VACUUM		
30"-0	0-5" In. Hg.	5" In. Hg.



TO SPECIFY							
SIZE	PRESSURE	VACUUM	COMPOUND	CASE STYLE	NPT	MOUNT	RANGE
1 1/2"	TL15P	TL15V	N/A	U*	1/8"	LM♦or CBM♦	—
2"	TL20P	TL20V	TL20VP	U or F**	1/8 or 1/4"	LM or CBM	—
2 1/2"	TL25P	TL25V	TL25VP	U or F	1/4"	LM or CBM	—
3 1/2"	TL35P	TL35V	TL35VP	N/A	1/4"	LM or CBM	—
4 1/2"	TL45P	TL45V	TL45VP	N/A	1/4"	LM	—
Ex: TL20P-U 1/4" CBM 0-30psi							

*U - U Clamp. **F - Front Flange. ♦LM - Lower Mount. ♦CBM - Center Back Mount

HVAC PRESSURE GAUGES

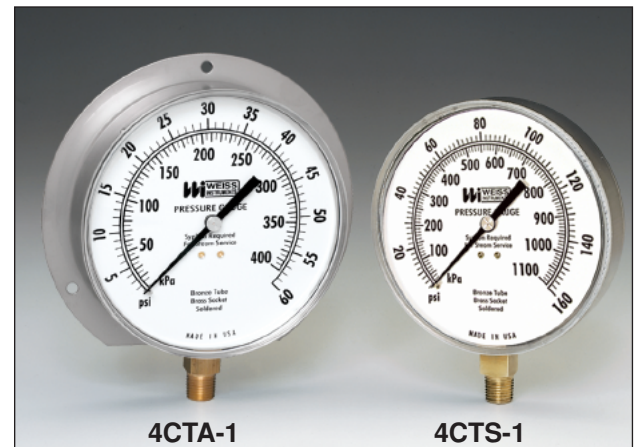
Weiss 4 1/2" CTS/CTA Pressure Gauges are designed to meet the standard specifications for Heating, Cooling and Air Conditioning applications. The CTS has a stainless steel case for stem mount and the CTA is an aluminum back flange case for either stem or surface mounting. Both versions conform with ANSI B40.1 accuracy Grade A-1% mid scale.

POINTER: Balanced adjustable aluminum.

DIAL: White coated metal, lithographed with black graduation lines and numerals.

MOVEMENT: Brass construction.

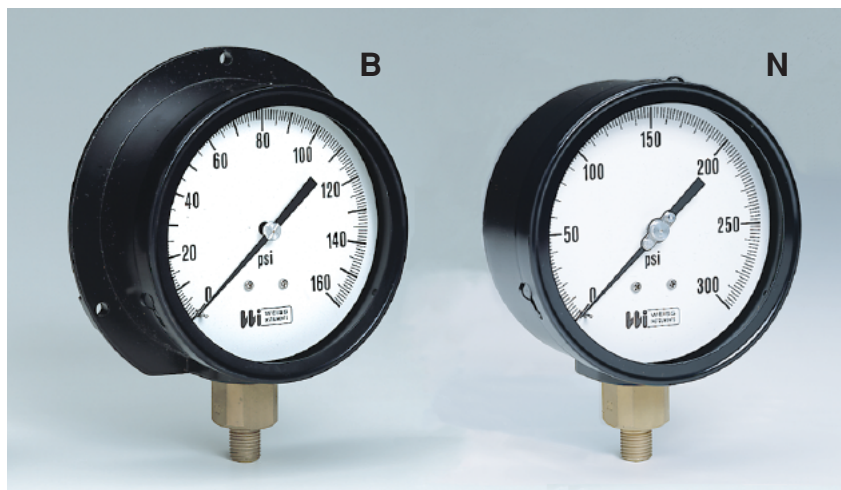
BOURDON TUBE & SOCKET: Phosphor bronze bourdon. Brass stock socket 9/16" square wrench surface and 1/4" NPT lower connection. Soft-soldered construction.



PRESSURE			COMPOUND		
RANGE	GRADUATIONS	FIG. INTERVAL	RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.2	1	30-0-15*	1" Hg.-0.5p	10" Hg.-5p
0-30	0.5	5	30-0-30	1" Hg.-0.5p	10" Hg.-10p
0-60	1	5	30-0-60	1" Hg.-1p	10" Hg.-10p
0-100	1	10	30-0-100	2" Hg.-1p	30" Hg.-20p
0-160	2	20	30-0-150*	2" Hg.-2p	30" Hg.-20p
0-200	2	20	30-0-300*	10" Hg.-5p	30" Hg.-50p
0-300	5	50	VACUUM		
0-400	5	50			
0-600	10	50			
			30"-0	0-5" In. Hg.	5" In. Hg.

*In the 4CTA-1 Gauge these ranges are not available.

INDUSTRIAL PRESSURE GAUGES



The Weiss Series 088 Gauges are ideal for use on boilers, compressors, pumps, and any industrial applications that require a heavy duty internal gauge. Our 4 1/2" case styles have a glass window, solid back with safety blow out disc standard. Available in two case styles- Style B: Aluminum Back Flange and Style N: Aluminum No Flange, all have 1/4" NPT lower mount connection. Optional 1/2" NPT available.

TO SPECIFY					
SIZE	CAT. NO.	CASE STYLE	NPT	MOUNT	RANGE
4 1/2"	4PG_-1	B - Back Flange	1/4"	LM*	—
4 1/2"	4UG_-1	N - No Flange	1/4"	LM	—
Ex: 4PGN-1 1/4" LM 0-160psi *LM - Lower Mount					

CAT. NO.	POINTER	RANGE LIMITS	BOURDON TUBE	MOVEMENT	SOCKET	ACCURACY
PG-1	SLOTTED ADJUSTABLE	VACUUM THRU 0-600 psi	"C" PHOSPHOR BRONZE SILVER BRAZED JOINTS	BRASS BUSHED ROTARY	BRASS	1% ANSI GRADE A
UG-1	MICROMETER ADJUSTABLE	VACUUM THRU 0-600 psi	"C" PHOSPHOR BRONZE SILVER BRAZED JOINTS	STN. STL. BUSHED ROTARY	BRASS	1/2 of 1% ANSI GRADE 2A

PRESSURE			COMPOUND		
RANGE	GRADUATIONS	FIG. INTERVAL	RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.1	1	30-0-15	0.5" Hg.-0.2p	5" Hg.-3p
0-30	0.2	5	30-0-30	1" Hg.-0.5p	10" Hg.-5p
0-60	0.5	5	30-0-60	1" Hg.-1p	10" Hg.-10p
0-100	1	10	30-0-100	2" Hg.-1p	10" Hg.-10p
0-160	1	20	30-0-150	5" Hg.-2p	10" Hg.-20p
0-200	2	20	30-0-300	5" Hg.-2p	30" Hg.-25p
0-300	2	50	VACUUM		
0-400	5	50	30"-0	0.2" In. Hg.	5" In. Hg.
0-600	5	50			

PROCESS PRESSURE GAUGES

The 4 1/2" Process Gauge is designed for those severe service applications where operator safety is a factor. This solid front gauge is equipped with a solid wall separating the indicating dial from the bourdon tube and a blow-out back which will release from the case if the bourdon tube should rupture.

Available with phosphor bronze/brass, 316 stainless steel or monel internals, liquid-filled or dry construction, this gauge is ideally suited for the requirements of the Process, Power and Chemical Industries. This high quality gauge offers the benefit of field filling without any additional kits or accessories.



NF4UGY1

NF4UGY1 NON-FILLED / LF4UGY1 LIQUID FILLED

SOCKET: Brass
BOURDON TUBE: Phosphor bronze - C tube to 600 psi. AISI 316 stainless steel coiled tube 1000 psi and above.
CONNECTING JOINTS: Silver brazed
MOVEMENT: Bushed stainless steel
DIAL: White aluminum, black & red markings (psi & kPa)
POINTER: Black aluminum, micrometer adjustable
CASE: Black impact resistant phenolic
WINDOW: Acrylic
RING: Reinforced polypropylene
GASKETS: Ethylene propylene
ACCURACY: 0.5% ASME B40.1 Grade 2A
CONNECTIONS: 1/4" or 1/2" NPT lower or lower back
CAT. NO. LF4UGY1: Lower connection only.

NF4UGY2 NON-FILLED / LF4UGY2 LIQUID FILLED

SOCKET: AISI 316 stainless steel
BOURDON TUBE: AISI 316 S.S. - C tube to 600 psi. Coiled tube 1000 psi and above.
CONNECTING JOINTS: Welded
MOVEMENT: Bushed stainless steel
DIAL: White aluminum, black & red markings (psi & kPa)
POINTER: Black aluminum, micrometer adjustable
CASE: Black impact resistant phenolic
WINDOW: Acrylic
RING: Reinforced polypropylene
GASKETS: Ethylene propylene
ACCURACY: 0.5% ASME B40.1 Grade 2A
CONNECTIONS: 1/4" or 1/2" NPT lower or lower back
CAT. NO. LF4UGY2: Lower connection only.

PRESSURE			COMPOUND		
RANGE	GRADUATIONS	FIG. INTERVAL	RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.1	1	30-0-15	0.5" Hg.-0.2p	5" Hg.-3p
0-30	0.2	5	30-0-30	1" Hg.-0.5p	10" Hg.-5p
0-60	0.5	5	30-0-60	1" Hg.-1p	10" Hg.-10p
0-100	1	10	30-0-100	2" Hg.-1p	10" Hg.-10p
0-160	1	20	30-0-150	5" Hg.-2p	10" Hg.-20p
0-200	2	20	30-0-300	5" Hg.-2p	30" Hg.-25p
0-300	2	50	VACUUM		
0-400	5	50	bar -1-0	0.01	0.1
0-600	5	50	kPa -100-0	1	10
0-800	10	100	30"-0	0.2" In. Hg.	5" In. Hg.
0-1000	10	100			
0-1500	10	200			
0-2000	20	200			
0-3000	20	500			
0-5000	50	500			
0-10000	100	1000			
0-20000	200	2000			

STAINLESS STEEL INDUSTRIAL GAUGES



Where vibration, corrosion and pulsating conditions exist, the Weiss line of stainless steel cased liquid filled and dry construction industrial pressure gauges are designed to meet the most severe applications. This series of instruments includes a wide range of accuracies, case patterns and construction materials to cover most requirements.

LIQUID FILLED

CAT. NO.	DIAL SIZE	INTERNALS	ACCURACY	NPT
LF251	2 1/2"	BRONZE	1.6%	1/4"
LF252	2 1/2"	316 S.S.	1.6%	1/4"
LF441	4"	BRONZE	1%	1/4"
LF401	4"	BRONZE	1%	1/4" or 1/2"
LF402	4"	316 S.S.	1%	1/4" or 1/2"
LF602	6"	316 S.S.	1%	1/4" or 1/2"

Above selections are for direct stem mounting. For panel mounting versions add suffix U (U-clamp) or F (Front Flange) to the above Catalog No.

DRY CONSTRUCTION

CAT. NO.	DIAL SIZE	INTERNALS	ACCURACY	NPT
NF252	2 1/2"	316 S.S.	2%	1/4"
NF401	4"	BRONZE	1%	1/4"
NF402	4"	316 S.S.	1%	1/4" or 1/2"
NF601	6"	BRONZE	1 1/2%	1/4"
NF602	6"	316 S.S.	1 1/2%	1/4" or 1/2"

RANGES FOR LF25 & NF25

PRESSURE		
RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.5	3
0-30	0.5	5
0-60	0.5	5
0-100	1	10
0-160	2	20
0-200	2	20
0-300	2.5	30
0-400	4	40
0-600	10	100
0-1000	10	100
0-1500	20	300
0-2000	25	300
0-3000	100	500
0-5000	100	1000
COMPOUND		
RANGE	GRADUATIONS	FIG. INTERVAL
30-0-30	2" Hg.-1p	10" Hg.-5p
30-0-60	2" Hg.-2p	10" Hg.-10p
30-0-100	5" Hg.-2p	30" Hg.-20p
30-0-150	5" Hg.-5p	30" Hg.-25p
30-0-200	5" Hg.-5p	30" Hg.-20p
30-0-300	10" Hg.-5p	30" Hg.-50p
VACUUM		
RANGE	GRADUATIONS	FIG. INTERVAL
0-30"	1" In. Hg.	5" In. Hg.

RANGES FOR LF40, NF40 & NF60

PRESSURE		
RANGE	GRADUATIONS	FIG. INTERVAL
0-15	0.5	3
0-30	0.5	5
0-60	0.5	5
0-100	1	10
0-160	2	20
0-200	2	20
0-300	2.5	30
0-400	4	40
0-600	10	100
0-1000	10	100
0-1500	20	300
0-3000	25	300
0-5000	50	500
0-10000	100	1000
0-15000	200	2000
0-20000	200	2000
COMPOUND		
RANGE	GRADUATIONS	FIG. INTERVAL
30-0-30	2" Hg.-1p	10" Hg.-5p
30-0-60	2" Hg.-2p	10" Hg.-10p
30-0-100	2" Hg.-2p	10" Hg.-20p
30-0-150	5" Hg.-5p	10" Hg.-10p
30-0-200	10" Hg.-5p	30" Hg.-20p
VACUUM		
RANGE	GRADUATIONS	FIG. INTERVAL
0-30"	0.5" In. Hg.	5" In. Hg.

NOTE: psi and Metric Scales available, consult factory.

LOW PRESSURE DIAPHRAGM GAUGES

Designed for pressures below 15 psi, the Weiss Diaphragm Gauge offers an instrument highly sensitive yet durably constructed. Furnished in black drawn steel cases. Available in 2 1/2" dial size and 1 1/4" NPT lower or center back connected.

SOCKET: Brass

MOVEMENT: Brass

DIAPHRAGM: Copper alloy.

DIAL: White coated aluminum, lithographed with black graduation lines and numerals.



TO SPECIFY						
SERIES	SIZE	RANGE TYPE	CASE STYLE	NPT	MOUNT	RANGE
DG	2 1/2" 25	P3-Pressure V3-Vacuum C3-Combination	U-U Clamp	1/4"	LM* CBM**	— —
Ex: DG25P3 1/4" LM 0-10psi						

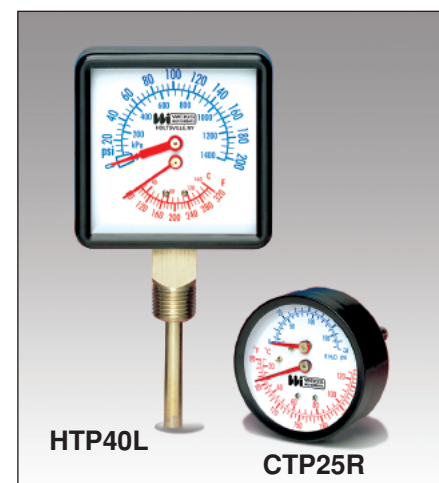
*LM - Lower Mount **CBM - Center Back Mount

PRESSURE			COMBINATION		INNER SCALE		OUTER SCALE	
RANGE	GRADUATIONS	FIG. INTERVAL	IN. WATER OUTER SCALE	OZ. WATER INNER SCALE	GRADS	FIGURE INTERVAL	GRADS	FIGURE INTERVAL
0-3 psi	0.05	0.5	0-35	0-20	0.5	5.0	0.5	5.0
0-5 psi	0.1	1.0	0-15	0-9	0.2	1.0	0.2	3.0
0-10 psi	0.1	1.0	0-60	0-35	1.0	5.0	1.0	10.0
inch/water								
0-15	0.2	3.0						
0-30	0.5	5.0						
0-60	1.0	10.0						
0-100	1.0	10.0						
oz.-sq. in.			VACUUM - in water vac.					
0-10	0.1	1.0	RANGE	GRADUATIONS			FIG. INTERVAL	
0-15	0.2	3.0	30-0	0.5			5.0	
0-30	1.0	5.0	60-0	1.0			10.0	
0-100	1.0	10.0	100-0	1.0			10.0	

TRI-O-METERS

The Weiss Tri-o-meter is designed for use on all types of hot water heating systems. One instrument reads the water pressure, water temperature and system head in feet of H₂O. Available in 2 1/2" dial with 1/4" NPT rear connection and 3 1/2" dial with 1/2" NPT lower or rear connected.

Series C	0-75 psi & Ft. of H ₂ O	60-260 F&C
H	0-200 psi & kPa	80-320 F&C
CAT. NO.	DESCRIPTION	
CTP25R	1/4" NPT Rear	
CTP25RX	1/4" NPT rear x 2" Extension	
CTP40RSX	1/2" NPT Rear	
CTP40L	1/2" NPT Lower	
HTP40RSX	1/2" NPT rear	
HTP40L	1/2" NPT lower	



DIAPHRAGM SEALS



The Weiss line of Diaphragm Seals, in conjunction with Weiss pressure indicators, offers instrumentation that's rugged and carefully calibrated to withstand the most severe industrial, process or OEM service. Our diaphragm seals are available in a variety of metal housing materials and process connection sizes to fit most requirements.

Series DS/DV/DT

Max. Pressure/Temperature Limits: Vacuum thru 2300 psi to 100°F, 1500psi to 200°F, 600 psi to 400°F.

Top Housing: 1/4" or 1/2" NPT (304 S.S. standard)

Diaphragm: 316 L.S.S. welded, Viton* or Teflon**

Nuts and Bolts: Stainless Steel

Lower Housing: 1/4" thru 1" NPT

* Viton is furnished for Vacuum, 30 psi and Compound 30-0-15psi ranges.
** Teflon is available for ranges to 200 psi.

Ranges 0-30" HG, 30-0-15 psi, 30-0-30 psi. Silicone Filling only.

Ordering Code: -DS - **DS=316SS** **Ex: 25-DS12-50**
A -DV **B C** **D** **DV=Viton**
-DT **DT=Teflon**

A. Top Connection

25 = 1/4" NPT
50 = 1/2" NPT

B. Flushing/No Flushing

0 = No flushing conn.
1 = Flushing conn.

C. Lower Housing Mat'l

2 = 316SS

D. Process Conn.

25 = 1/4" NPT
50 = 1/2" NPT
75 = 3/4" NPT
10 = 1" NPT

LIQUID FILLINGS: Food-Grade Glycerine • Silicone DC200

The Series MD/MN is a compact, lightweight, economical diaphragm seal. The upper and lower housing, as well as the diaphragm, are type 316 stainless steel - all welded together making a one piece integral unit, ideally suited for those applications where space is a factor.

The use of a hermetically sealed, liquid filled pressure gauge in conjunction with either a MD or MN seal protects the indicating gauge from both the process medium and atmospheric conditions, as well as reduces pointer fluctuations due to vibration and pulsation.

Series MD

Opr. Pressure: 30 psi thru 1000 psi

Temperature Limits: -5 to 300°F

Top Connection: 1/4" or 1/2" NPT

Process Connection: 1/4", 1/2" or 3/4" NPT

Ordering Code: -MDN2-
A **B**
Ex: 25-MDN2-50

A. Top Connection

25 = 1/4" NP
50 = 1/2" NPT

B. Process Conn.

25 = 1/4" NPT
50 = 1/2" NPT
75 = 3/4" NPT

Series MN

Opr. Pressure: 100 psi thru 1000 psi

Temperature Limits: -5 to 300°F

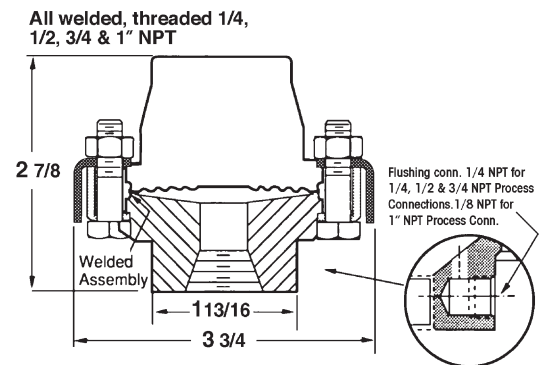
Top Connection: 1/4" NPT

Process Connection: 1/4" or 1/2" NPT

Ordering Code: 25-MNN2-
X
Ex: 25-MNN2-25

X. Process Connection

25 = 1/4" NPT
50 = 1/2" NPT



GAUGE ACCESSORIES

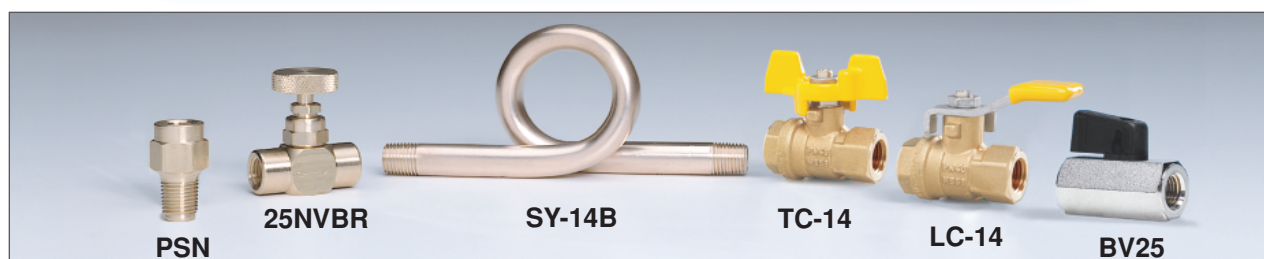


TABLE 1 - PRESSURE SNUBBERS

STYLE CODE	HOUSING MATERIAL CODE	HOUSING MATERIAL	NPT CODE	NPT	PSI RATING AT 70°F
PSN	B	Brass	25	1/4"	1,500 psi
	S	303 S.S.	50	1/2"	1,500 psi

TABLE 2

POROSITY SYMBOL CODE	TYPE OF SERVICE	PORE OPENING MEAN	PORE OPENING MAX.
E	Water and Light Oil (30 to 225 SSU*)	.0013	.0025
D	Oil (225 to 500 SSU)	.0025	.005
G	Air and other Gases	.0004	.0009

*SSU - Saybolt Seconds Universal Viscosity

For complete Catalog No. use Coding from Table 1 & 2. **EX: PSN-B-25-E** = Brass Housing 1/4" NPT, E Porosity Disc.

NEEDLE VALVE

CAT. NO.	SIZE	MATERIAL	RATING
25NVBR	1/4" FNPT X 1/4" FNPT	Brass	600 psi & 300°F

SYPHONS

CAT. NO.	SIZE	MATERIAL	RATING
SY-14S	1/4" MNPT x 1/4" MNPT	Iron	500 psi & 400°F
SY-14B	1/4" MNPT x 1/4" MNPT	Brass	250 psi & 400°F

GAUGE COCKS

CAT. NO.	SIZE	MATERIAL	RATING
TC-14	1/4" FNPT x 1/4" FNPT	Brass	150 lb. Steam
MTC-14	1/4" FNPT x 1/4" MNPT	Brass	150 lb. Steam
LC-14	1/4" FNPT x 1/4" FNPT	Brass	150 lb. Steam

BALL VALVES

CAT. NO.	SIZE	MATERIAL	RATING
BV25	1/4" FNPT x 1/4" FNPT	Nickel Plated Brass	450 psi & 250°F
MBV25	1/4" FNPT x 1/4" MNPT	Nickel Plated Brass	450 psi & 250°F
BV50	1/2" FNPT x 1/2" FNPT	Nickel Plated Brass	450 psi & 250°F

HAND HELD DIGITAL THERMOMETER

ENVIRONMENTAL

Ambient Operating Range: 0 to 50°C 32 to 122°F

Storage Temperature: -10 to 60°C -14 to 140°F

Humidity: 0% to 90% (0 to 35°C) 0% to 70% (35 to 50°C)

ACCURACY

Function	Range	Accuracy + (% of reading+degrees)
°C	-50°C to 1000°C	0.3% ± 1°C
°F	-50°F to 1999°F	0.3% ± 2°F


GENERAL

Weight: 206 GM (7.2oz)

Dimension: 5.31"L x 2.83"W x 1.22"H (135x72x31mm)

Battery: Standard 9V battery (NEDA 1604,6F22 or 006P)

Battery life: Approx.150 hours.

Low battery indication: The  (BT) is displayed when the battery voltage drops below the operating voltage.

Over range indication: OL

Measurement rate: 2.5 measurements per second.

Display: (3) 1/2" liquid crystal digit display, 14mm high LCD.

Yellow Grip Sleeve: Included.

Data Hold Feature - Max Hold Feature

Output Jack: For temperature recording or computer interface.

Instruction manual: Included.



DT51A-1

PROBES

Cat. No.	Description	Length
KS	Type K Surface probe w/velcro	8ft.
KA	Type K Air/Surface probe	8ft.
KG	Type K General Purpose probe	8ft.
KP	Type K Puncture Probe	5ft.
KO	Type K Oven probe	8ft.
KL	Type K Long Velcro	8ft.
KB	Type K Bead probe	8ft.

The DT51A-1 is a type K thermocouple based single probe thermometer with a range of -50/1999°F, resolution switch (0.1°F or 1°F), Data Hold and Max Memory feature, °F or °C switch and includes a general use probe and carrying case.

Send for Weiss Literature to match your specific application.



IND-9/04

BM-4/04

LT-6/06

V-5/05

GD-6/05

DT-2/05



SG-9/04

SSG-7/04

CTP-6/03

ARW-10/05

PHC-11/06

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