

**Cushion Clamp Assemblies & Insulation Coupling Systems** 





- ↑ Hydra-Zorb® Strut Mounted Clamps [ page 2 ]
- ▼ Klo-Shure® Insulation Couplings [ page 9 ]







Hydra-Zorb Co.® has been the leader in the strut mounted clamp market for over 50 years, offering a wide variety of solutions when shock, vibration and corrosion are a problem. As the originator of the cushion clamp assembly, Hydra-Zorb® is the name to request in the fluid power, pneumatic, refrigeration, HVAC and plumbing/mechanical industries.

#### Hydra-Zorb® cushion clamps:

- Cushion material is a thermoplastic elastomer rated from -65°F to +275°F
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines
- Permit various size lines to be mixed to suit installation
- All metal components have a Tri-Valent (non-hex) plating
- Provide fast and simple installation. Only one man and one tool needed for assembly after base channel is in place
- Available in 304 and 316 stainless steel, aluminum and galvanized powder coated
- UL Classified Flame/Smoke
- Made in USA



## Strut Mounted Cushion Clamp Assembly Numbers

Ordering is simple.

First, determine if you require tube or pipe series.

Second, determine the size of the line to be clamped.

That's it.



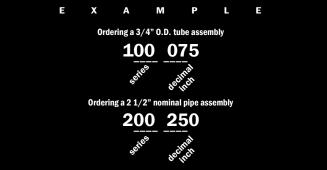


All standard clamp assemblies consist of a 6-digit part number. A complete listing of part numbers for the pipe and tube series is on pages 5-6. The clamp assemblies are shown by series 100 and 200 as:

100 – tube (O.D. tube)

200 - pipe (Nominal pipe)

The cushion size is indicated by decimal inch. The example will show how to order both tube and pipe series.



# All standard strut mounted cushion clamps have the following features:

- Cushion material is a thermoplastic elastomer rated from -65°F to +275°F
- Clamps are 1008-1010 carbon steel
- Studs are projection welded
- Nylon insert locknut
- All metal components have a Tri-Valent (non-hex) plating



## **Additional Materials**

These are commonly requested materials for special applications. Just add one of the following suffix numbers to your 6-digit part number.

(series)	(decimal inch)	(suffix)	
		<u>- 4 - 555</u>	304 stainless steel clamps 304 stainless stud (welded) 304 locknut
		<u>-4-565</u>	304 stainless steel clamps 316 hex head bolt (loose) 304 locknut
		<u>-4-655</u>	316 stainless steel clamps 304 stainless stud (welded) 304 locknut
		<u>-4-666</u>	316 stainless steel clamps 316 hex head bolt (loose) 316 locknut
		<u>-4-865</u>	aluminum (5052) clamps* 316 hex head bolt (loose) 304 locknut

<sup>\*</sup> Special Orders Only



## **Cushion Clamp Assemblies**

## TUBE

Tube Outside Diameter			.250	.312	.375	.470	.500	.625	.750	.875	1.000	1.125	1.190	1.250	1.375
Clamp Assembly Part Number			100025	100031	100037	100047	100050	100062	100075	100087	100100	100112	100119	100125	100137
Quantity Per Box			25	25	25	25	25	25	25	25	25	20	20	20	20
ACR Tube										•					
Refrigeration Serv.												•			
Type "K" Copper												•			
Type "L" Copper															
Type "M" Copper															
Steel												•			
Stainless Steel												•			
Aluminum															
РВ															
PVC												•			
CPVC												•			
PE															
	elow)	А	1.11	1.24	1.24	1.36	1.36	1.50	1.78	1.91	2.03	2.16	2.30	2.30	2.75
	am b	В	.22	.28	.28	.34	.34	.41	.53	.58	.66	.72	.72	.78	.91
	diagram below)	С	.075	.075	.075	.075	.075	.075	.075	.075	.075	.075	.105	.105	.119
	ees)	*D	.62	.75	.75	.87	.87	1.00	1.33	1.45	1.66	1.79	1.92	1.92	2.22

#### PIPE

Nominal Pipe Size		1/4	3/8	1/2	3/4	1
Pipe O.D.		.54	.675	.84	1.05	1.315
Clamp Assembly Part Number		200025	200037	200050	200075	200100
Quantity Per Box	25	25	25	20	20	
Carbon Steel 5S, 10S, 40 & 80			•	•		-
Stainless 5S, 10S, 40 & 80			•	•	•	•
Red & Yellow Brass & Copper			•	•		-
Aluminum 5S, 10S, 40 &80			•	•	•	•
PVC 48, 80 & 120			•	•	•	-
CPVC 40 & 80			•	•		•
PE 40 & 80			•	•	•	-
PP 40 & 80			•	•	•	-
PVDF 80			•	•	•	•
PB 40			•	•	•	•
ABS 40 & 80			•			
Fiberglass						
A Top of Channel	А	1.41	1.59	1.91	2.16	2.75
$B \leftarrow \downarrow$	В	.63	.45	.59	.72	.91
## P &	С	.075	.075	.075	.075	.119
*D *Minimum Required Installation	*D	.91	1.07	1.45	1.79	2.22
Dimension	For h	oses: measure h	ose outside diam	eter and select ne	earest o.d. size	

## **Engineering Information & Piping Assembly Chart**

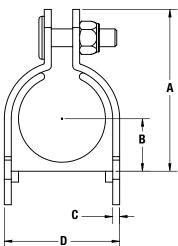
1.500	1.625	1.750	1.875	2.000	2.125	2.250	2.375	2.500	2.625	3.000	3.125	3.625	4.125	5.000	5.125	6.000	6.125
100150	100162	100175	100187	100200	100212	100225	100237	100251	100262	100300	100312	100362	100412	100500	100512	100600	100612
20	20	20	20	10	10	10	10	5	5	5	5	5	5	Each	Each	Each	Each
		•										•					
																	•
2.75	3.03	3.03	3.28	3.28	3.53	3.78	3.78	4.03	4.03	4.52	4.52	5.03	5.66	6.75	6.75	7.75	7.75
.91	1.03	1.03	1.16	1.16	1.28	1.41	1.41	1.53	1.53	1.78	1.78	2.03	2.34	2.81	2.81	3.31	3.31
.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119	.119
2.22	2.47	2.47	2.47	2.72	2.97	3.22	3.22	3.47	3.47	3.97	3.97	4.47	5.09	6.25	6.25	7.50	7.50

1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	5	6
1.66	1.90	2.375	2.875	3.5	4.0	4.5	5.563	6.625
200125	200150	200200	200250	200300	200350	200400	200500	200600
20	20	10	5	5	5	5	Each	Each
				•				
							•	
				•			•	
•			•					
3.03	3.28	3.78	4.27	4.91	5.53	6.03	7.03	8.03
1.03	1.16	1.41	1.66	1.97	2.28	2.53	3.03	3.53
.119	.119	.119	.119	.119	.119	.119	.135	.135
2.47	2.47	3.22	3.72	4.36	4.97	5.47	6.47	7.47



## **Cushion Clamps For Metric Pipe Sizes**





#### **Hydra-Zorb® Cushion Clamps for Metric Pipe Sizes:**

- Cushion material is a thermoplastic elastomer rated from -65°F to +275°F
- Guards against shock, vibration and corrosion
- Supports metric polypropylene pipe.
- Classified UL Flame/Smoke for use in air handling systems
- Made in USA

PART NUMBER	DESCRIPTION	Α	В	С	D
20 MMHZ	20mm Clamp Assembly	1.78	0.53	0.07	1.33
25 MMHZ	25mm Clamp Assembly	2.03	0.66	0.07	1.66
25 MMHZ	25mm Clamp Assembly	2.30	0.78	0.07	1.92
40 MMHZ	40mm Clamp Assembly	2.75	0.91	0.11	2.22
50 MMHZ	50mm Clamp Assembly	3.28	1.16	0.11	2.72
63 MMHZ	63mm Clamp Assembly	4.03	1.53	0.11	3.47
75 MMHZ	75mm Clamp Assembly	4.52	1.78	0.11	3.97
90 MMHZ	90mm Clamp Assembly	4.91	1.97	0.11	4.36
110 MMHZ	110mm Clamp Assembly	5.76	2.44	0.11	5.30
125 MMHZ	125mm Clamp Assembly	6.55	2.71	0.11	6.15
160 MMHZ	160mm Clamp Assembly	7.95	3.41	0.11	7.70

<sup>\*</sup> Additional sizes available (see page 29).





## **Specification Data & Guidelines**

#### **Specification Data For Tube, Pipe & Hose Clamping**

- All tube, pipe and hose lines are to be secured using resilient Hydra-Zorb cushions with clamps and anchoring channel or other similar approved equal method.
- Tube, pipe and hose are to be secured to the machine base or frame. Clamp assemblies shall allow:
  - pipe and tube sizes to be intermixed on variable centers to conserve space
  - for addition or removal of tube or pipe without unclamping other elements
  - tubes, pipes and hoses to be stacked back to back
  - installation without removing lines from supply or receiver.

- Cushions shall be of resilient material: resistant to oils, hydraulic fluids, grease, fuels, common solvents, dilute bases and mineral acids, and not degrade at operating temperatures of 275° F.
- Entire clamp assembly can be assembled or disassembled with a single hand or power wrench.
   Clamps should be spaced not more than 60 diameters apart or a maximum of 5 feet.
- Available in sizes from 1/4" to 6-1/8" o.d. tube and 1/4" to 6" nominal pipe. Available in mild steel, 304 and 316 stainless and aluminum (special order).
- Classified by UL for use in air handling systems

#### **Guidelines For Reducing Vibration Shock And Noise In Fluid Systems**

#### A. Isolate Pumps

- Use flexible couplings between pump and prime mover.
- Use adequately-sized hose between pump pressure port and start of tubing runs. A two or three foot length is adequate.
- Avoid solid contact between suction and return lines and fluid reservoir.
- Isolation mounts between the pump and prime mover & the reservoir or machine frame are highly desirable.

#### **B. Rigidly Mount all Valves**

- Mount all larger directional and flow control valves to the machine base or frame. Avoid in-line mounting.
- Smaller two-port solenoid, in-line flow and in-line check valves can be considered rigidly-mounted when installed directly next to a clamp point.



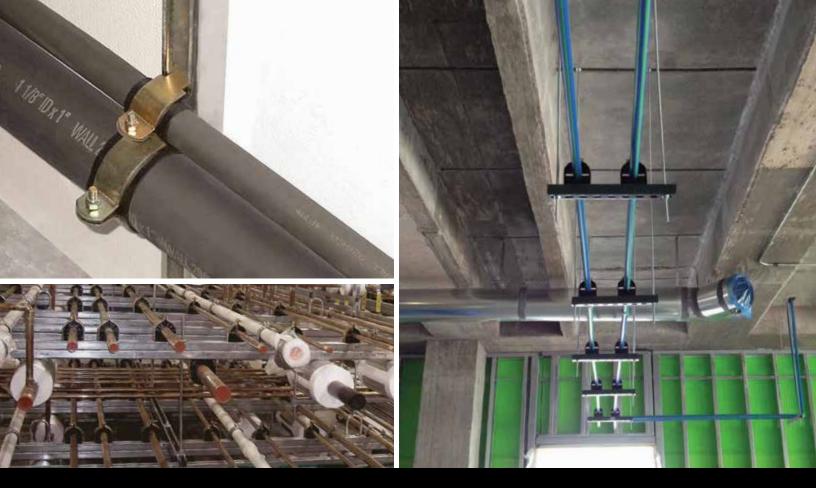
#### C. Minimize Fluid Resistance

- Use adequately-sized components and lines.
- Avoid drilled junction blocks.
- Keep conductor runs as straight as possible.
- Use bends rather than right angle fittings. Straight fittings for disassemble and service may be used as required.

#### D. Secure The Fluid Conductor System

- Use resilient cushion clamps.
- Normally, clamp spacing distance should not be more than 60 diameters.
- Where severe vibration is present, clamp spacing distance should not be more than 30 diameters.
- On long runs, vary clamp spacings by approximately 15% to break up and change vibration frequency.
- Provide clamps as close as possible to each side of a bend.
- Use unions rather than rigidly-mounted bulkhead fittings.
   Use clamps on each side of union to maintain alignment during service or reinstallation.
- All clamping should be made to the machine frame.
   However, clamping lines to each other is much better than not clamping.
- Use adequate lengths of flexible hose where required.
   Clamp tube directly adjacent to hose connection point.
   Clamp hose to base or frame when practical.





▲ With Klo-Shure®

## **→ Without Klo-Shure**®



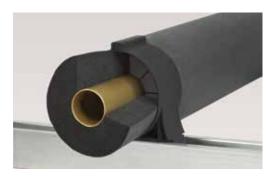




Patented Klo-Shure • Insulation Couplings allow sections of closed-cell, elastomeric or fiberglass insulation to be secured, eliminating most secondary operations at suspension points. It can also be used to simply join and secure two lengths of insulation.



**7-Series Strut Mount** supports and secures tubing in strut mounted applications.



**8-Series Strut Mount** installs in seconds without metal clamps.



**9-Series Strut Mount** for fiberglass insulation. Available for copper tube, iron pipe and millimeter sizing.



**Clevis System** locks the coupling into clevis hanger.



### **Klo-Shure® Features**

Classified by UL for use in air handling systems. UL 2043 spread / smoke index.

- Manufactured from high strength TPO plastic.
- Meets the 25/50 flame spread/ smoke developed index.
- Made in USA
- Superior vapor barrier
- Three times faster installation of closed-cell elastomeric and fiber glass insulation.
- Dramatically improved finished appearance of insulated tubing.
- Eliminates insulation compression at suspension points.
- For use with strut mounted clamps and clevis hangers.
- Supports OD tube from 1/4" to 4-1/8" and 1/2" to 2-1/2" nominal pipe

fastener and locknut

- Millimeter sizes available from 25mm 90mm.
- Available with 304 or 316 stainless steel hardware.







## **Specification Data & Guidelines**

#### **Specification and Insulation Data**

- All insulated copper tube and iron pipe lines are to be secured using resilient Klo-Shure® Insulation Couplings and Hydra-Zorb® anchor channel.
- Tubing supported and secured by internal part design.
- Insulation is to be inserted inside coupling with insulation contacting internal wall.
- Secondary operations (glue and tape) can be performed at the installer's discretion.
- Entire assembly can be assembled or disassembled with a single hand or power wrench.
- Proudly manufactured in the USA.

#### **Klo-Shure Recommendations**

- Coupling spacing should be no more than 60 diameters.
- Keep conductor runs as straight as possible.
- Overwrap of Klo-Shure® coupling with insulation is not required.
- 7 and 9-series acceptable for horizontal and vertical installations.



**7-Series Strut Mount** 



**8-Series Strut Mount** 



9-Series Strut Mount



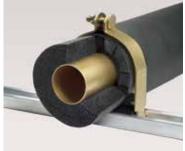
**Clevis System** 



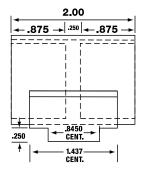
## **7-series Strut Mount Insulation Couplings**

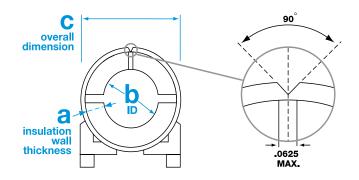
Klo-Shure® strut mounted parts include the Klo-Shure® Coupling, clamp halves with welded fastener and locknut. For use with elastomeric insulation.











#### **Part Numbers:**

All Klo-Shure® couplings consist of a 6-digit part number. This shows the breakdown of typical part numbers:

(i.e. Strut mounted coupling for 1-5/8" tube with 1" wall insulation)

# 728162 third digit insulation wall thickness based on $1/8^{\circ}$ increments second digit 2 = strut mount $3 = 3/8^{\circ}$ $4 = 1/2^{\circ}$ $6 = 3/4^{\circ}$

## last three digits

outer diameter of the tubing/inner diameter of Klo-Shure® Coupling

(decimal equivalent in inches)

#### d see diagram above

Klo-Shure® Strut Mounted Coupling for **3/8"** wall insulation

* <b>b</b> Klo-Shure <sub>®</sub> ID tube OD	C overall dimension	part no.	quantity per box
1/4" OD	1.12	723 <b>025</b>	40
3/8" OD	1.25	723 <b>037</b>	25
1/2" OD	1.37	723 <b>050</b>	20
5/8" OD	1.50	723 <b>062</b>	20
3/4" OD	1.62	723 <b>075</b>	20
7/8" OD	1.75	723 <b>087</b>	20
1" OD	1.87	723 <b>100</b>	20
1-1/8" OD	2.00	723 <b>112</b>	20
1-3/8" OD	2.25	723 <b>137</b>	20
1-5/8" OD	2.50	723 <b>162</b>	10
2-1/8" OD	3.00	723 <b>212</b>	10

8 = 1" 9 = 1-1/2"





<b>a</b> see diagram on previous page	<b>* b</b> Klo-Shure∘ ID tube OD	overall dimension	part no.	quantity per box
Klo-Shure®	1/2" OD	1.37	724 <b>025</b>	25
Strut Mounted Coupling for	3/8" OD	1.50	724 <b>037</b>	25
1/2" wall insulation	1/2" OD	1.62	724 <b>050</b>	20
	5/8" OD	1.75	724 <b>062</b>	20
	3/4" OD	1.87	724 <b>075</b>	20
	7/8" OD	2.00	724 <b>087</b>	20
	1" OD	2.12	724 <b>100</b>	20
	1-1/8" OD	2.25	724 <b>112</b>	20
	1-3/8" OD	2.50	724 <b>137</b>	20
	1-5/8" OD	2.75	724 <b>162</b>	10
	2-1/8" OD	3.25	724 <b>212</b>	10
	2-5/8" OD	3.75	724 <b>262</b>	10
	3-1/8" OD	4.25	724 <b>312</b>	10
	3-5/8" OD	4.75	724 <b>362</b>	10
	4-1/8" OD	5.25	724 <b>412</b>	10
Klo-Shure®	1/4" OD	1.87	726 <b>025</b>	20
Strut Mounted Coupling for	3/8" OD	2.00	726 <b>037</b>	20
3/4" wall insulation	1/2" OD	2.12	726 <b>050</b>	10
	5/8" OD	2.25	726 <b>062</b>	10
	3/4" OD	2.37	726 <b>075</b>	10
	7/8" OD	2.50	726 <b>087</b>	10
	1-1/8" OD	2.75	726 <b>112</b>	10
	1-3/8" OD	3.00	726 <b>137</b>	10
	1-5/8" OD	3.25	726 <b>162</b>	10
	2-1/8" OD	3.75	726 <b>212</b>	10
	2-5/8" OD	4.25	726 <b>262</b>	10
	3-1/8" OD	4.75	726 <b>312</b>	10
	3-5/8" OD	5.25	726 <b>362</b>	10
	4-1/8" OD	5.75	726 <b>412</b>	10
Klo-Shure®	5/16" OD	2.43	728 <b>031</b>	10
Strut Mounted Coupling for	3/8" OD	2.50	728 <b>037</b>	10
I" wall insulation	1/2" OD	2.62	728 <b>050</b>	10
	5/8" OD	2.75	728 <b>062</b>	10
	3/4" OD	2.87	728 <b>075</b>	10
	7/8" OD	3.00	728 <b>087</b>	10
	1-1/8" OD	3.25	728 <b>112</b>	10
	1-3/8" OD	3.50	728 <b>137</b>	10
	1-5/8" OD	3.75	728 <b>162</b>	10
	2-1/8" OD	4.25	728 <b>212</b>	10
	2-5/8" OD	4.75	728 <b>262</b>	10
	3-1/8" OD	5.25	728 <b>312</b>	10
	3-5/8" OD	5.75	728 <b>362</b>	10
	4-1/8" OD	6.25	728 <b>412</b>	5
(lo-Shure®	5/16" OD	3.43	729 <b>031</b>	10
Strut Mounted Coupling for	3/8" OD	3.50	729 <b>037</b>	10
-1/2" wall insulation	1/2" OD	3.62	729 <b>050</b>	10
	5/8" OD	3.75	729 <b>062</b>	10
	7/8" OD	4.00	729 <b>087</b>	10
	1-1/8" OD	4.25	729 <b>112</b>	10
	1-3/8" OD	4.50	729 <b>137</b>	10
	1-5/8" OD	4.75	729 <b>162</b>	10
	2-1/8" OD	5.25	729 <b>212</b>	10
	2-5/8" OD	5.75	729 <b>262</b>	10

<sup>\*</sup>Note: Klo-Shure® ID equals copper tube OD. Chart indicates coupling sizes currently available from Klo-Shure®. All metal parts have Tri-Valent plating. Please contact Klo-Shure® for 304 or 316 stainless steel hardware pricing.





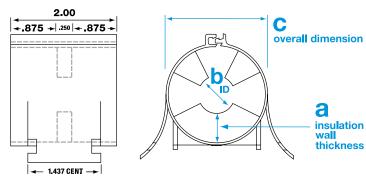
## **8-Series Strut Mount Insulation Couplings**

The Klo-Shure® 8-series coupling allows the installer to insert the Klo-Shure coupling into channel and lock the top. No metal clamps needed. For use with elastomeric insulation. Optional hand tool is available.









#### **Part Numbers:**

All Klo-Shure® couplings consist of a 6-digit part number. This shows the breakdown of typical part numbers:

(i.e. Strut mounted coupling for 1-3/8" tube with 1/2" wall insulation)

# 824**137**

second digit
2 = strut mount

## first digit

8 = series

# third digit insulation wall thickness based on 1/8" increments

3 = 3/8" 4 = 1/2" 6 = 3/4" 8 = 1"

#### last three digits

outer diameter of the tubing/inner diameter of Klo-Shure<sup>®</sup> Coupling (decimal equivalent in inches)

a see diagram above	<b>* b</b> Klo-Shure∘ ID tube OD	C overall dimension	part no.
Klo-Shure® Coupling for	1/2" OD	1.62	824 <b>050</b>
1/2" wall insulation	5/8" OD	1.75	824 <b>062</b>
	7/8" OD	2.00	824 <b>087</b>
	1-1/8" OD	2.25	824 <b>112</b>
	1-3/8" OD	2.50	824 <b>137</b>
	1-5/8" OD	2.75	824 <b>162</b>
	2-1/8" OD	3.25	824 <b>212</b>
Klo-Shure® Coupling for	5/8" OD	2.25	826 <b>062</b>
3/4" wall insulation	7/8" OD	2.50	826 <b>087</b>
	1-1/8" OD	2.75	826 <b>112</b>
	1-3/8" OD	3.00	826 <b>137</b>
Kla Shura® Caupling for	7/8" OD	3.00	828 <b>087</b>
Klo-Shure® Coupling for  1" wall insulation	1-1/8" OD	3.25	828 <b>112</b>
• wan modiation	1-3/8" OD	3.50	828 <b>137</b>
	1-5/8" OD	3.75	828 <b>162</b>
	2-1/8" OD	4.25	828 <b>212</b>
. CCIP.	2-5/8" OD	4.75	828 <b>262</b>



## 9-Series Strut Mount Insulation Couplings

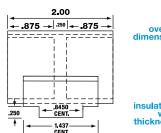
4 = 1/2"

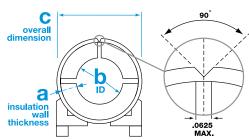
9 = 1-1/2"

8 = 1"

Includes Klo-Shure® Coupling, clamp halves with welded fastener & locknut. For use with fiberglass insulation.







#### **Part Numbers:**

This example shows the breakdown of typical part numbers. (i.e. Strut mounted coupling for 1-5/8" tube with 1" wall insulation) \*Klo-Shure ID equals copper tube OD.

# 928**162**

second digit 2 = strut mount first digit 9 = series

#### last three digits third digit

outer diameter of the insulation wall thickness tube/pipe equals the based on 1/8" increments inner diameter of Klo-Shure® Coupling (decimal equivalent in inches)

	*b	C		
<b>a</b> see diagram above	Klo-Shure ID pipe/tube OD	overall dimension	part no.	quantity per box
Klo-Shure® Strut Mounted Coupling	5/8" OD	1.785	924 <b>062</b>	20
copper tube sizes for	7/8" OD	2.025	924 <b>087</b>	20
1/2" wall fiberglass insulation	1-1/8" OD	2.285	924 <b>112</b>	20
	1-3/8" OD	2.500	924 <b>137</b>	10
	1-5/8" OD	2.845	924 <b>162</b>	10
	2-1/8" OD	3.285	924 <b>212</b>	10
Klo-Shure® Strut Mounted Coupling	5/8" OD	3.008	928 <b>062</b>	10
copper tube sizes for	7/8" OD	3.008	928 <b>087</b>	10
1" wall fiberglass insulation	1-1/8" OD	3.008	928 <b>112</b>	10
	1-3/8" OD	3.638	928 <b>137</b>	10
	1-5/8" OD	3.638	928 <b>162</b>	10
	2-1/8" OD	4.138	928 <b>212</b>	10
	2-5/8" OD	4.648	928 <b>262</b>	10
	3-1/8" OD	5.138	928 <b>312</b>	10
Klo-Shure® Strut Mounted Coupling	7/8" OD	4.138	929 <b>087</b>	10
copper tube sizes for	1-1/8" OD	4.138	929 <b>112</b>	10
1-1/2" wall fiberglass insulation	1-3/8" OD	4.648	929 <b>137</b>	10
• 172 Wall insergiass insulation	1-5/8" OD	5.138	929 <b>162</b>	10
	2-1/8" OD	5.138	929 <b>212</b>	10
Klo-Shure® Strut Mounted Coupling	1/2" pipe (0.84)**	2.025	924 <b>084</b>	20
<b>iron</b> pipe sizes for	3/4" pipe (1.05)**	2.285	924 <b>105</b>	20
1/2" wall fiberglass insulation	1" pipe (1.31)**	2.500	924 <b>131</b>	10
Train moor grade mediation	1-1/4" pipe (1.66)**	2.845	924 <b>166</b>	10
	1-1/2" pipe (1.90)**	3.285	924 <b>190</b>	10
Klo-Shure® Strut Mounted Coupling	1/2" pipe (0.84)**	3.008	928 <b>084</b>	10
iron pipe sizes for	3/4" pipe (1.05)**	3.008	928 <b>105</b>	10
1" wall fiberglass insulation	1" pipe (1.31)**	3.638	928 <b>131</b>	10
• wall liberglass insulation	1-1/4" pipe (1.66)**	3.638	928 <b>166</b>	10
	1-1/2" pipe (1.90)**	3.950	928 <b>190</b>	10
	2" pipe (2.37)**	4.648	928 <b>237</b>	10
	2-1/2" pipe (2.87)**	5.138	928 <b>287</b>	10
Klo-Shure® Strut Mounted Coupling	1/2" pipe (0.84)**	4.138	929 <b>084</b>	10
iron pipe sizes for	3/4" pipe (1.05)**	4.138	929 <b>105</b>	10
1-1/2" wall fiberglass insulation	1" pipe (1.31)**	4.648	929 <b>131</b>	10
- 1/2 wall liberglass insulation	1-1/4" pipe (1.66)**	5.138	929 <b>166</b>	10
	1-1/2" pipe (1.90)**		020.00	

<sup>\*</sup>Note: Klo-Shure® ID equals copper pipe/tube OD. Chart indicates coupling sizes currently available from Klo-Shure®. All metal parts have Tri-Valent plating.

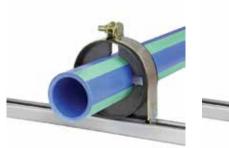




<sup>\*\*</sup> Note: Nominal pipe OD listed in parenthesis.

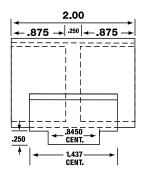
## **9-series Strut Mount Insulation Couplings for Millimeter Pipe**

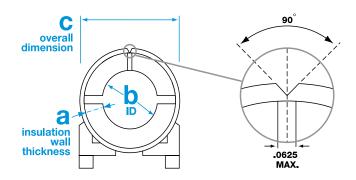
Klo-Shure® strut mounted parts include the Klo-Shure® Coupling, clamp halves with welded fastener and locknut.







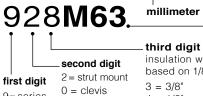




#### **Part Numbers:**

All Klo-Shure® couplings consist of a 6-digit part number. This shows the breakdown of typical part numbers:

(i.e. Strut mounted coupling for 63mm pipe with 1" wall insulation)



#### last two digits outer diameter

insulation wall thickness based on 1/8" increments

3 = 3/8" 4 = 1/2"

6 = 3/4"

8 = 1" 9 = 1-1/2" of the tubing/inner diameter of Klo-Shure® Coupling (decimal equivalent in mm)

a see diagram above	* <b>b</b> Klo-Shure∘ ID pipe OD	overall dimension	part no.	quantity per box
Klo-Shure®	25 mm	3.008	928 <b>M25</b>	10
Strut Mounted Coupling for	32 mm	3.638	928 <b>M32</b>	10
1" wall insulation	40 mm	3.638	928 <b>M40</b>	10
	50 mm	4.138	928 <b>M50</b>	10
	63 mm	4.638	928 <b>M63</b>	10
	75 mm	5.138	928 <b>M75</b>	10
	90 mm	5.750	928 <b>M90</b>	10

9= series







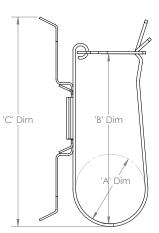
## **TRH Hanger System**

The TRH Hanger System provides a superior fit and finish to better meet contractor and engineer specifications. By simply squeezing the tips together, the spring steel hanger can be secured or adjusted in seconds.









PART NUMBER	THREADED ROD DIAMETER	Α	В	С
TRH-2	1/4" - 3/8"	1.28	3.12	3.82
TRH-3	1/4" - 3/8"	1.40	3.28	3.70
TRH-4	1/4" - 3/8"	2.40	4.17	5.00
TRH-5	1/4" - 3/8"	3.38	6.26	7.03

#### **TRH Hanger System Features**

The TRH Hanger System supports a pair of insulated flow and return refrigerant lines on 1/4" to 3/8" threaded rod. Simply fold the lock-tab over to secure the lines into the strap.

The spring steel hanger grips the rod tightly, and the black zinc coating offers corrosion resistance while matching the insulation color. The clamp can be detached from the rod hanger and used to secure lines to flat surfaces.



## **Clevis Hanger Insulation Couplings**

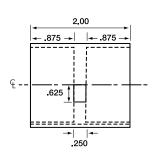
Klo-Shure® clevis hanger system includes clevis hanger, plastic coupling and fastening clip.

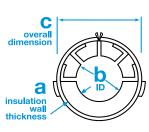


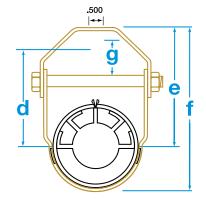












coupling "C" dimension	material size	cross bolt size	max recommended load/lbs
2.12 to 3.25	14 ga. x 1.25	5/16"	250
3.50 to 5.75	12 ga. x 1.25	5/16"	350

#### **Part Numbers:**

All Klo-Shure® couplings consist of a 6-digit part number. This shows the breakdown of typical part numbers:

(i.e. Clevis Mounted part number for 2-1/8" tube with 3/4" wall insulation)

## 706**212**



first digit 2 = strut mount 7= series

#### third digit

insulation wall thickness based on 1/8" increments

4 = 1/2"

6 = 3/4" 8 = 1"

#### last three digits

outer diameter of the tubing/inner diameter of Klo-Shure® Coupling (decimal equivalent in inches)





a	b	C	d	е	f	g	part no.
Klo-Shure®	1/4" OD	1.12	-	-	-	-	703 <b>025</b>
Clevis Hanger	3/8" OD	1.25	-	-	-	-	703 <b>037</b>
Coupling for	1/2" OD	1.37	-	-	-	-	703 <b>050</b>
3/8" wall insulation	5/8" OD	1.50	-	-	-	-	703 <b>062</b>
	3/4" OD	1.62	-	-	-	-	703 <b>075</b>
	7/8" OD	1.75	2-1/2	3-3/8	4-3/8	7/16	703 <b>087</b> *
	1" OD	1.87	2-5/8	3-7/16	4-1/2	1/2	703 <b>100*</b>
	1-1/8" OD	2.00	2-7/8	3-1/2	4-5/8	5/8	703 <b>112</b> *
	1-3/8" OD	2.25	3-3/16	3-13/16	5	15/16	703 <b>137</b> *
	1-5/8" 00	2.50	3-1/2	4	5-1/2	1-1/16	703 <b>162</b> *
	2-1/8" OD	3.00	4-3/16	4-3/4	6-1/2	1-5/16	703 <b>212</b> *
Klo-Shure®	3/8" OD	1.50	-	-	-	-	704 <b>037</b>
Clevis Hanger	1/2" OD	1.62	-	-	-	-	704 <b>050</b>
Coupling for	5/8" OD	1.75	2-1/2	3-3/8	4-3/8	7/16	704 <b>062*</b>
1/2" wall insulation	3/4" OD	1.87	2-5/8	3-7/16	4-1/2	1/2	704 <b>075</b> *
	7/8" OD	2.00	2-7/8	3-1/2	4-5/8	5/8	704 <b>087*</b>
	1" OD	2.12	3	3-5/8	4-7/8	7/8	704 <b>100</b> *
	1-1/8" OD	2.25	3-3/16	3-13/16	5	15/16	704 <b>112*</b>
	1-3/8" OD	2.50	3-1/2	4	5-1/2	1-1/16	704 <b>137</b> *
	1-5/8" OD	2.75	3-3/4	4-3/8	5-7/8	1-1/4	704 <b>162*</b>
	2-1/8" OD	3.25	4-1/2	5-1/8	6-7/8	1-7/16	704 <b>212*</b>
	2-5/8" OD	3.75	5	5-5/8	7-5/8	1-11/16	704 <b>262*</b>
	3-1/8" OD	4.25	5-13/16	6-7/16	8-3/4	2-1/8	704 <b>312</b> *
	3-5/8" OD	4.75	6-5/16	6-7/8	9-3/8	2-15/16	704 <b>362*</b>
	4-1/8" OD	5.25	6-7/8	7-1/2	10-1/8	2-9/16	704 <b>412</b> *
Klo-Shure®	1/4" OD	1.87	2-5/8	3-7/16	4-1/2	1/2	706 <b>025</b> *
Clevis Hanger	3/8" OD	2.00	2-7/8	3-1/2	4-5/8	5/8	706 <b>037</b> *
Coupling for	1/2" OD	2.12	3	3-5/8	4-7/8	7/8	706 <b>050</b> *
3/4" wall insulation	5/8" OD	2.25	3-3/16	3-13/16	5	15/16	706 <b>062*</b>
	3/4" OD	2.37	3-5/16	3-15/16	5-1/4	1	706 <b>075</b> *
	7/8" OD	2.50	3-1/2	4	5-1/2	1-1/16	706 <b>087</b> *
	1-1/8" OD	2.75	3-3/4	4-3/8	5-7/8	1-1/4	706 <b>112</b> *
	1-3/8" OD	3.00	4-3/16	4-3/4	6-1/2	1-5/16	706 <b>137</b> *
	1-5/8" OD	3.25	4-1/2	5-1/8	6-7/8	1-7/16	706 <b>162</b> *
	2-1/8" OD	3.75	5	5-5/8	7-5/8	1-11/16	706 <b>212</b> *
	2-5/8" OD	4.25	5-13/16	6-7/16	8-3/4	2-1/8	706 <b>262*</b>
	3-1/8" OD	4.75	6-5/16	6-7/8	9-3/8	2-5/16	706 <b>312</b> *
	3-5/8" OD	5.25	6-7/8	7-1/2	10-1/8	2-9/16	706 <b>362</b> *
	4-1/8" OD	5.75	7-1/4	7-7/8	10-3/4	2-3/4	706 <b>412</b> *
Klo-Shure®	5/8" OD	2.75	3-3/4	4-3/8	5-7/8	1-1/4	708 <b>062*</b>
Clevis Hanger	7/8" OD	3.00	4-3/16	4-3/4	6-1/2	1-5/16	708 <b>087*</b>
Coupling for	1-1/8" OD	3.25	4-1/2	5-1/8	6-7/8	1-7/16	708 <b>112*</b>
1" wall insulation	1-3/8" OD	3.50	4-3/4	5-3/8	7-1/4	1-9/16	708 <b>137</b> *
	1-5/8" OD	3.75	5	5-5/8	7-5/8	1-11/16	708 <b>162*</b>
	2-1/8" OD	4.25	5-13/16	6-7/16	8-3/4	2-1/8	708 <b>212</b> *
	2-5/8" OD	4.75	6-5/16	6-7/8	9-3/8	2-5/16	708 <b>262*</b>
	3-1/8" OD	5.25	6-7/8	7-1/2	10-1/8	2-9/16	708 <b>312</b> *
	3-5/8" OD	5.75	7-1/4	7-7/8	10-3/4	2-3/4	708 <b>362*</b>
			.,.	, -		-, -	

**Note**: Klo-Shure<sup>®</sup> ID equals copper tube OD. Chart indicates coupling sizes currently available from Klo-Shure<sup>®</sup>. Plastic coupling available without clevis hanger. Contact factory for price and availability. \* Part number includes metal clevis hanger. All metal parts have Tri-Valent plating.



#### **Modu-Stak Cushion Series**

Hydra-Zorb®'s Modu-Stak cushion clamps are available in a wide variety of configurations. To assist in the ordering procedure, we are highlighting the most popular single and multi-tier assemblies.



#### **General Characteristics**

- Cushion material is polypropylene with working temperature from -20°F to 212°F.
- Reduce noise, shock and vibration caused by surges in fluid conductors.
- Eliminate metal to metal contact between fluid conductors & clamps preventing galvanic reaction
- Resists most fuels, oils, gases, greases, solvents, etc.
- Provide fast and simple installation.
- Extensive selection of components for assemblies can meet varying application requirements.
- Assemblies available in either single or double line.

#### **Mounting Features**

- Clamp assemblies can use weld plates, be bolted directly into place, utilize channel mounting or be suspended using customer supplied threaded rod.
- Formed weld bases have integral weld nuts secured from the underside. Weld failure cannot cause clamp failure.
- Heavy weld plates, including integral weld nuts, are available for heavy duty applications.

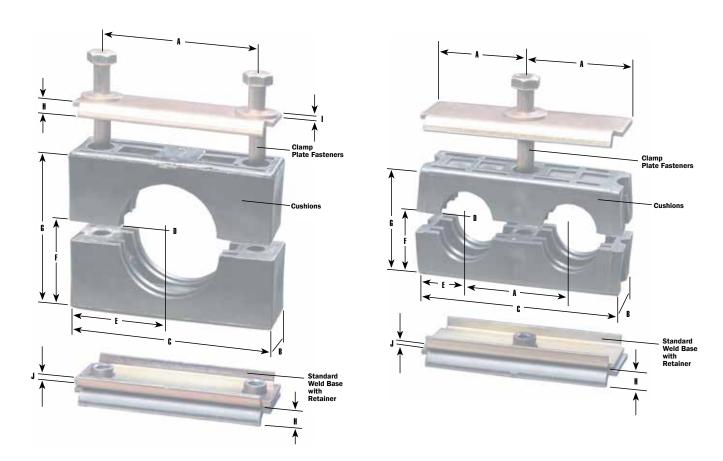
#### **Stacking & Tiering**

- Center distance of mounting holes (bolt holes) and height of the assembly are identical.
- All assembly sizes (like series) are the same width for good appearance when stacked together.
- Double retainer plates are used for heavier duty applications (required when stacking or tiering).



## **Component Selection**

Modu-Stak are available in a wide variety of configurations. A twelve digit assembly number completely specifies all components of a standard assembly. The first step is to determine the cushion series type, page 23. Next, determine the cushion I.D. size for your application, page 24. Pages 25 and 26 will show the most popular ways of mounting single and double tier Modu-Stak assemblies.



Clamp Series & Typ	e A	В	С	D	E	F	G	Н	I	J
511		1.16	1.45				.85			
521	1	1.16	1.90		.95	.425	.85	.30	.075	.075
522	1	1.16	1.94	page 24)	.45	.425	.85	.30	.075	.075
524	1	1.16	3.88		.45	.425	.85	.30	.075	.075
531	1 1/2	1.16	2.40	ا ات. (	1.20	.675	1.35	.30	.105	.075
532	1 1/2	1.16	2.94	Cushion I.D. (see	.72	.675	1.35	.30	.105	.075
541	2	1.16	2.90		1.45	.925	1.85	.30	.105	.075
542	2	1.16	3.94		1.87	.925	1.85	.30	.105	.075
561	3	1.16	3.90		1.95	1.395	2.79	.30	.105	.105



## **Modu-Stak Cushion Series**

5 0 0

See page 22 for dimensions. Drawings are 1/2" scale.







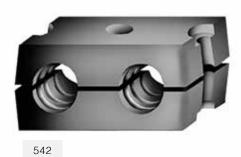


522











561



								_						
												) <del></del>		
	Modu-Stak size and type		Cushion	Tube	Nom. Pipe	Nom. ACR	Bulk	head						
511	521	522	524	531	532		542	561	I.D. Size	O.D. Size	I.D. Size	Tube I.D.	Hex	Tube
									025	.25				
		•	•						031	.31				
•	•	•	•	•					037	.37		.250	.500	1/4
-		•	•	•					050	.50		.375	.531	<sup>5</sup> /16
				•					054		1/4			
							•		062	.62		.500	.687	3/8
				•			-		067		3/8			
							•		075	.75		.625	.812	1/2
							-		084		1/2			
							-		087	.87		.750	.937	5/8
						•	•		100	1.00			1.125	3/4
						-	-		105		3/4			
						•	-		112			1.000	1.250	7/8
						-	-		125	1.25			1.370	1
						-	-		131		1			
						-	-		137			1.250		
									150	1.50			1.680	11/4
									162			1.500		
									166		1 1/4			
									175	1.75				
									190		1 1/2		2.000	11/2
									200	2.00				
									212			2.000		
									225	2.25				
									237		2			

Stock size shown shaded. Other cushion I.D. sizes are available when production quantities warrant, including two different cushion I.D. sizes in a double clamp. Use only single cushions for bulkhead applications.

## **Modu-Stak Single-Tier Arrangements**

To simplify the ordering process, these pages show the most popular methods of mounting Modu-Stak assemblies.

To complete the numbering process, you will need to indicate the series number and the cushion I.D.

Detailed on pages 23 and 24).





#### **Standard Weld Base**

\_\_\_\_\_ 00 1111



# Heavy Duty Weld Base (NEW) (7 GA.)

seijes custion 00 8111





Old Style Still Available (.375" steel/special order)

jies custion

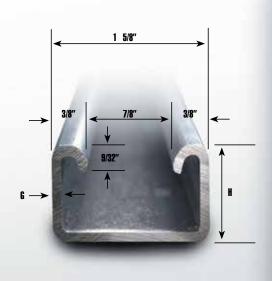
00 6111

## **Modu-Stak Multi-Tier-Arrangements**

Pictured is the most common method of stacking our 521, 524, 531 and 532 series assemblies. When ordering stacking units, a part number needs to be specified for each tier. Various configurations are available. Contact your local distributor or the factory direct. 00 1112 00 0600 The most common way to stack our 541, 542 and 561 Modu-Stak series is shown. When ordering stacking units, a part number needs to be specified for each tier. 00 4111 00 1771

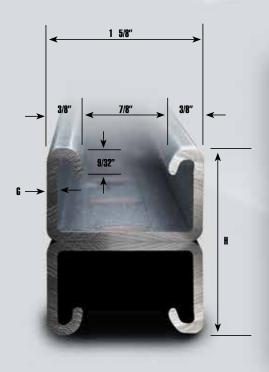


## **Anchor Channels**



#### SINGLE

Part Number	Height (H)	Gauge (G)
121036-1-203	1"	12 GA.
121048-1-203	1"	12 GA.
121120-1-203	1"	12 GA.
121036-1-202	7/8"	12 GA.
121048-1-202	7/8"	12 GA.
121120-1-202	7/8"	12 GA.
121048-1-101	13/16"	14 GA.
121120-1-101	13/16"	14 GA.
121048-5-101	13/16"	14 GA.
121120-5-101	13/16"	14 GA.
121048-6-101	13/16"	14 GA.
121120-6-101	13/16"	14 GA.



## **DOUBLE**

Part Number	Height (H)	Gauge (G)
122048-1-203	2"	12 GA.
122120-1-203	2"	12 GA.
122048-1-202	1 3/4"	12 GA.
122120-1-202	1 3/4"	12 GA.
122048-1-101	1 5/8"	14 GA.
122120-1-101	1 5/8"	14 GA.
122048-5-101	1 5/8"	14 GA.
122120-5-101	1 5/8"	14 GA.
122048-6-101	1 5/8"	14 GA.
122120-6-101	1 5/8"	14 GA.



Material	Length	
Steel	36"	— All channel widths are 1-5/8"
Steel	48"	
Steel	120"	All steel channel shipped with plain finish (hot rolled p.o.)
Steel	36"	Lengths listed are stock sizes. Special
Steel	48"	lengths are available; please contact your local distributor or the factory.
Steel	120"	
Steel	48"	All special cut tolerances are ±1/8"
Steel	120"	
304 SS	48"	
304 SS	120"	
316 SS	48"	
316 SS	120"	

Material	Length					
Steel	48"	All channel widths are 1-5/8"				
Steel	120"	All steel channel shipped with plain				
Steel	48"	finish (hot rolled p.o.).				
Steel	120"	Lengths listed are stock sizes. Special				
Steel	48"	lengths are available; please contact your local distributor or the factory.				
Steel	120"	All special cut tolerances are ± 1/8"				
304 SS	48"					
304 SS	120"					
316 SS	48"					
316 SS	120"					

# Hydra-Zorb® Component Parts List\*

PART NUMBER OD TUBE SERIES	OD Tube Size	PART NUMBER NOM PIPE SIZE	Nom Pipe Size	PART NUMBER MM SERIES	mm Size	CUSHION NUMBER	CUSHION ID SIZE (Inches)	CUSHION ID SIZE (mm)	CLAMP NUMBER	CLAMP SIZE (Inches)	FASTENER
100025	1/4"			6MMHZ	6	1 .250	0.250	6.3	101037	0.375	1/4-20
100031	5/16"			8MMHZ	8	1 .312	0.312	7.9	101050	0.500	1/4-20
100037	3/8"			10MMHZ	10	1 .375	0.375	9.5	101050	0.500	1/4-20
100047	.47"			12MMHZ	12	1 .470	0.470	11.9	101062	0.625	1/4-20
100050	1/2"			13MMHZ	13	1 .500	0.500	12.7	101062	0.625	1/4-20
		200025	1/4"	14MMHZ	14	2 .250	0.540	13.7	101067	0.675	1/4-20
				15MMHZ	15	1 .625	0.625	15.9	101067	0.675	1/4-20
100062	5/8"			16MMHZ	16	1 .625	0.625	15.9	101075	0.750	1/4-20
		200037	3/8"	17MMHZ	17	2 .375	0.675	17.1	101084	0.840	1/4-20
				18MMHZ	18	2 .375	0.675	17.1	101087	0.875	1/4-20
100075	3/4"			19MMHZ	19	1 .750	0.750	19.0	101100	1.000	1/4-20
				20MMHZ	20	1 .750	0.750	19.0	101100	1.000	1/4-20
		200050	1/2"		21	2 .500	0.750	21.3	101112	1.000	1/4-20
100087	7/8"			22MMHZ	22	1 .875	0.875	22.2	101112	1.125	1/4-20
				25MMHZ	25	1 1.00	1.000	25.0	100125	1.250	1/4-20
100100	1"			26MMHZ	26	1 1.00	1.000	25.4	101125	1.250	1/4-20
		200075	3/4"	27MMHZ	27	2 .750	1.050	28.0	101137	1.375	1/4-20
100112	1-1/8"			28MMHZ	28	1 1.12	1.125	29.2	101137	1.375	1/4-20
100119	1.19"			30MMHZ	30	1 1.19	1.190	30.2	101150	1.500	1/4-20
100125	1-1/4"	000400	4.0	32MMHZ	32	1 1.25	1.250	31.8	101150	1.500	1/4-20
100127	1 0/0"	200100	1"	34MMHZ	34	2 1.00	1.315	33.5	101175	1.750	5/16-18
100137	1-3/8"			35MMHZ	35	1 1.37	1.375	34.9	101162	1.620	5/16-18
100150	1-1/2"			38MMHZ 40MMHZ	38 40	1 1.50	1.500	38.1 40.0	101175 101187	1.750 1.870	5/16-18 5/16-18
100162	1-5/8"			40IVIIVITIZ	41	1 1.62	1.625	41.1	101187	1.870	5/16-18
100102	1-5/6	200125	1-1/4"	42MMHZ	42	2 1.25	1.660	42.2	101107	2.000	5/16-18
100175	1-3/4"	200123	1-1/4	45MMHZ	45	1 1.75	1.750	44.5	101200	2.000	5/16-18
100173	1-7/8"	200150	1-1/2"	48MMHZ	48	2 1.50	1.900	48.2	101200	2.250	5/16-18
	1 170			50MMHZ	50	1 2.00	2.000	50.0	101225	2.250	5/16-18
100200	2"			51MMHZ	51	1 2.00	2.000	50.8	101225	2.250	5/16-18
100212	2-1/8"			54MMHZ	54	1 2.12	2.125	54.1	101250	2.500	5/16-18
100225	2-1/4"				57	1 2.25	2.250	57.1	101275	2.750	5/16-18
100237	2-3/8"	200200	2"	60MMHZ	60	2 2.00	2.375	60.4	101275	2.750	5/16-18
				63MMHZ	63	1 2.50	2.500	63.0	101300	3.000	5/16-18
100251	2-1/2"			64MMHZ	64	1 2.50	2.500	63.5	101300	3.000	5/16-18
100262	2-5/8"			66MMHZ	66	1 2.62	2.625	66.5	101300	3.000	5/16-18
	2-7/8"	200250	2-1/2"	72MMHZ	72	2 2.50	2.875	73.2	101325	3.250	5/16-18
				75MMHZ	75	1 3.12	3.120	75.0	101337	3.370	5/16-18
100300	3"				77	1 3.00	3.000	76.2	101350	3.500	5/16-18
100312	3-1/8"			80MMHZ	80	1 3.12	3.120	79.2	101350	3.500	5/16-18
100337	3-3/8"				86	2 3.00	3.500	88.9	101375	3.750	3/8-16
	3-1/2"	200300	3"	90MMHZ	90	2 3.00	3.500	88.9	101387	3.875	3/8-16
100362	3-5/8"	000050	0.1/01		92	2 3.00	3.500	88.9	101400	4.000	3/8-16
100400 100412	4"	200350	3-1/2"		102	2 3.50	4.000	101.6	101450	4.500	3/8-16 3/8-16
100412	4-1/4"				108	2 3.50	4.000	105.0 108.0	101462 101475	4.625 4.750	3/8-16
100423	4-1/4			110MMHZ	110	2 4.00	4.500	111.0	101473	4.875	3/8-16
100437	4-3/8"			TTOWNVITZ	111	2 4.00	4.500	111.0	101487	4.875	3/8-16
100-107	4-1/2"	200400	4"		113	2 4.00	4.500	113.0	101500	5.000	3/8-16
100462	4-5/8"	200700	, ,		118	2 4.00	4.500	118.0	101500	5.125	3/8-16
100492	. 5/6			125MMHZ	125	2 4.00	4.500	125.0	101512	5.500	3/8-16
100500	5"				127	1 5.12	5.125	127.0	101550	5.500	3/8-16
100512	5-1/8"				130	1 5.12	5.125	130.0	101550	5.500	3/8-16
	, 0	200500	5"		141	2 5.00	5.563	141.2	101600	6.000	3/8-16
100600	6"				152	1 6.12	6.125	152.0	101637	6.375	3/8-16
100612	6-1/8"				155	1 6.12	6.125	155.0	101637	6.375	3/8-16
100631				160MMHZ	160	2 6.00	6.625	160.0	101637	6.375	3/8-16
100637	6-3/8"				162	2 6.00	6.625	162.0	101675	6.750	3/8-16
100650	6-1/2"	200600	6"		165	2 6.00	6.625	165.0	101700	7.000	3/8-16

<sup>\*</sup> See Terms and Conditions of Sale

## **Terms and Conditions of Sale**

#### **Agreements:**

All agreements are subject to availability of material, accidents, or other causes beyond our control.

#### Warrantv:

Hydra-Zorb Co. and Klo-Shure Inc., (Company), warrants only products manufactured by Company to be free from defects for a period of 12 months from shipment date. Products must be used for their intended purpose. If goods are found to be defective, Company will replace the product but will not be responsible for labor or expense of replacing or repairing defective goods or damage resulting from same. The Company makes no other warranty of any kind, expressed or implied. Any implied warranties made by resellers of Company's product are hereby disclaimed by Company and are excluded from this warranty. Warranty will be void if Company manufactured clamps and/or cushions are substituted with components produced by other manufacturers.

#### Claims:

No claims for shortages allowed unless made in writing within ten days of receipt of goods. All materials sent out will be carefully examined, counted, and packed. Claims for goods damaged or lost in transit should be made on the carrier, as our responsibility ceases on delivery to the carrier.

#### Returns:

Complete customer satisfaction is our goal. However, if our product does not meet your expectations, we offer the following return policies:

- 1. Return requests must occur within 30 days of shipment. No return requests will be honored more than 30 days after the original shipment date.
- 2. All returns are at the discretion of the Company, and we reserve the right to limit or refuse a return for any reason.
- 3. Special order products cannot be returned. This includes, but is not limited to, custom labeled product, all anchor channel, and stainless steel, hot-dip galvanized and aluminum assemblies.
- 4. Requests to return product must be accompanied by the original invoice number, sales order number, or purchase order number on which the purchase occurred.

- 5. Return Material Authorization (RMA) must be issued by Company before return shipment occurs. RMA # must be clearly marked on all packages.
- 6. Product returns are subject to a 35% restocking fee. Parts must be in unopened, saleable condition, and include all component parts.
- 7. Upon receipt of the return, product will be inspected. Any parts requiring new packaging will be subject to a 50% restocking fee.
- 8. Return freight charges to the Company must be prepaid by Customer.
- 9. Upon inspection of parts, a credit will be issued to your account which may be applied to open invoices or future invoices. Cash refunds will not be issued.
- 10. This Agreement and the rights and obligations of the parties hereunder shall be governed exclusively by the applicable laws of the State of Michigan. Further any and all disputes hereunder shall be resolved exclusively by the courts located in Oakland County, Michigan and the parties stipulate to exclusive jurisdiction in Oakland County, Michigan to resolve any said disputes.
- 11. Any and all costs and expenses of the Company, including all reasonable attorney fees, incurred in enforcing its rights hereunder shall be recoverable from Purchaser hereunder.

#### **Terms And Design:**

Subject to change without notice. Refer to current price list for terms of sale. Hydra-Zorb reserves the right to revise product design, product offerings, and catalog without notification.

#### **Freight Terms:**

All prices are F.O.B. point of shipment.

#### **Dimensions And Weights:**

Although the Company makes every attempt to be as accurate as possible, all listed dimensions and weights are approximations and are not guaranteed.

#### **International Shipments:**

Purchaser is responsible for any import duty or fees related to your purchase.



## **Cushion Clamp Assemblies & Insulation Coupling Systems**



## $www.hydra\hbox{-}zorb.com\hbox{-}www.klo\hbox{-}shure.com$

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