

# RESERVOIR ACCESSORIES

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# ACCESS COVERS

## BAFFLE MOUNT — STEEL AND STAINLESS STEEL

Access Covers (Cleanout Covers) are designed to allow access into a dry (drained) reservoir for cleaning, inspection or mounting of components inside of the reservoir.

### Standard Features:

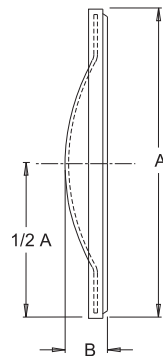
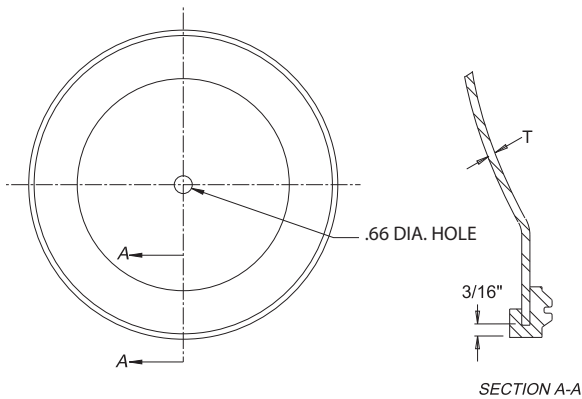
- Center clearance hole for mounting bolt
- With or without drain connection
- Buna N lip gasket
- Reference Spec Sheet for Access Cover kits that includes the mounting hardware

### Standard Materials:

- Carbon Steel
- 304 Stainless Steel

### NOTE:

- Recommended Torque = 15 ft-lb

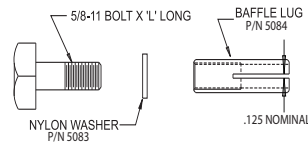


Carbon Steel



304 Stainless Steel

**NOTE:** All dimensions are inches



Access Covers: Baffle Mount - Steel						
Access Cover Size (inches)	*Kit w/o Drain Part No.	*Kit with 3/4 inch NPT Drain Part No.	†Cover Only w/o Drain Part No.	†Cover Only with Drain Part No.	*Kit with SAE-12 Drain Part No.	†Cover Only with SAE-12 Drain Part No.
10	5067	5068	5070	5072	5053-D	5053
12	5080	5080-D	5085	5086-D	5054-D	5054
14	5065	5066	5071	5073	5055-D	5055
16	5087	5087-D	5089	5090-D	5056-D	5056
18	5091	5091-D	5095	5094-D	5057-D	5057

Access Covers: Baffle Mount - Stainless Steel				
Access Cover Size (inches)	*Kit w/o Drain Part No.	*Kit with 3/4 inch NPT Drain Part No.	†Cover Only w/o Drain Part No.	†Cover Only with Drain Part No.
10	5067-SS	5067-D-SS	5070-SS	5072-D-SS
12	5080-SS	5080-D-SS	5085-SS	5085-D-SS
14	5065-SS	5065-D-SS	5071-SS	5071-D-SS
16	5087-SS	5087-D-SS	5089-SS	5089-D-SS
18	5091-SS	5091-D-SS	5095-SS	5095-D-SS

Access Cover Dimensions (inches)					
Access Cover Size	A	*B	T	L	Access Hole Dia.
10	10.75	1.50	11 GA	1.25	8
12	12.50	1.81	7 GA	1.75	10
14	14.12	1.81	8 GA	1.75	12
16	16.06	2.25	7 GA	2.00	14
18	18.50	2.62	7 GA	2.50	16
* All "B" dimensions are reference only					

**\*NOTE:** Access Cover Kit includes - (1) access cover, (1) Buna N gasket, (1) 5/8-11 bolt, (1) Nylon washer, (1) baffle lug

**†NOTE:** Access Cover only includes - (1) access cover, (1) Buna N gasket

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# ACCESS COVERS

## 6 INCH ACCESS COVER

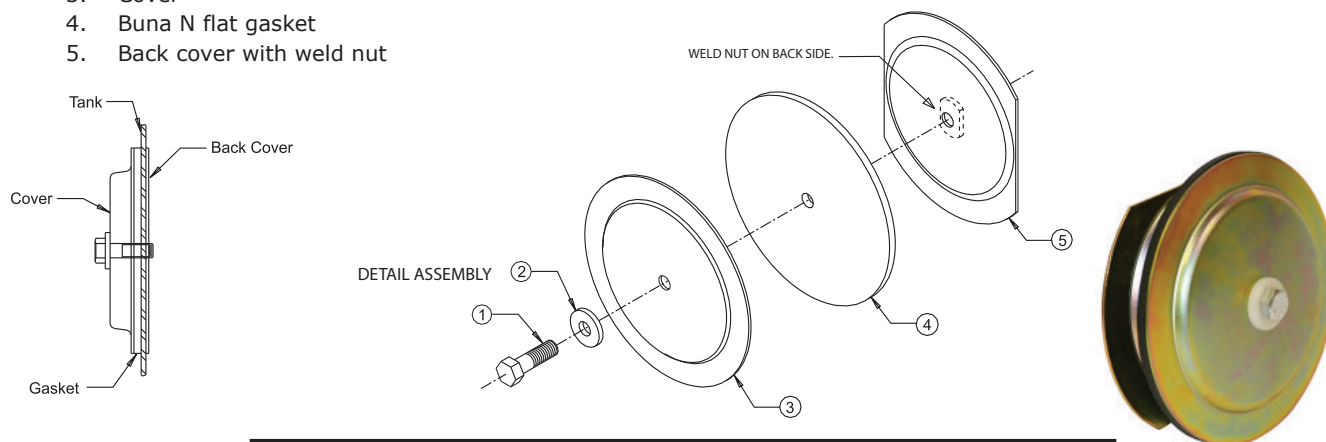
Access Covers (Cleanout Covers) are designed to allow access into a dry (drained) reservoir for cleaning, inspection or mounting of components inside of the reservoir.

### Standard Features:

1. (1) 3/8 inch x 1-1/4 inch long hex head bolt
2. (1) Nylon washer
3. Cover
4. Buna N flat gasket
5. Back cover with weld nut

### Standard Material:

- Zinc plated carbon steel



6 Inch Access Cover		
Part No.	Opening Diameter (inches)	Recommended Torque (ft-lb)
V1917	4 5/8	8

## BAFFLE MOUNT — STEEL W/ FLOW RESTRICTORS

Access Covers (Cleanout Covers) with flow restrictors are designed to help prevent hydraulic fluid from by-passing the baffle cutout by flowing around the cover dome. It will also allow access into a dry (drained) reservoir for cleaning, inspection or mounting of components inside of the reservoir.

### Standard Features:

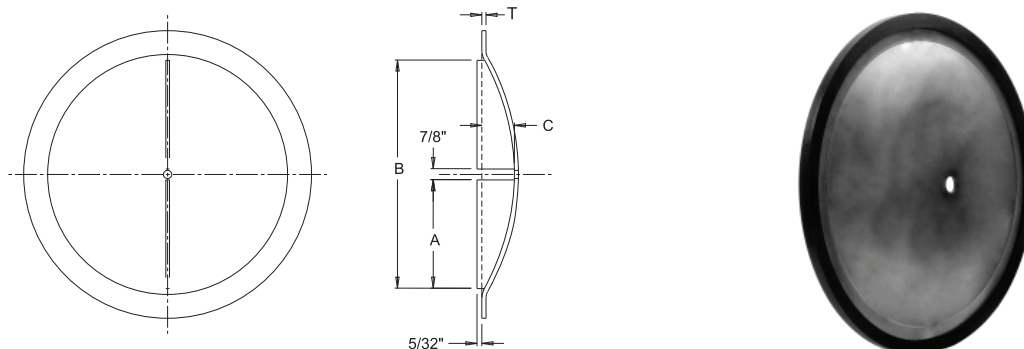
- Center clearance hole for mounting bolt
- One piece design
- With or without drain connection
- Buna N lip gasket

### Standard Material:

- Carbon Steel

### NOTES:

- Stainless steel also available upon request
- Recommended Torque = 15 ft-lb



**NOTE:** All dimensions are inches

Access Covers: Baffle Mount - Steel w/Flow Restrictors								
Access Cover Size (inches)	Dimensions				Access Cover Openings (inches)	Steel Access Cover w/Restrictor w/Drain Part No.	Steel Access Cover w/Restrictor w/o Drain Part No.	Steel Access Cover w/Restrictor w/SAE-12 Drain Part No.
A (inches)	B (inches)	C (inches)	T					
12	4.50	9.88	1.50	7 GA	10.00	5080-R	50800-R	50540
14	5.00	11.88	1.50	7 GA	12.00	5065-R	5066-R	50550
16	5.62	12.12	1.75	7 GA	12.25	5087-R	50870-R	50560
18	7.50	15.88	2.25	7 GA	16.00	5091-R	50910-R	50570

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# ACCESS COVERS

## BRACKET MOUNTS - STEEL

Bracket Mounted Access Covers (Cleanout Covers) are removable and designed to be used when a baffle is unavailable to mount the cover and when access to inside of reservoir is required. This allows access into a dry (drained) reservoir for cleaning, inspection or mounting of components inside of the reservoir with full access through the opening in the reservoir.

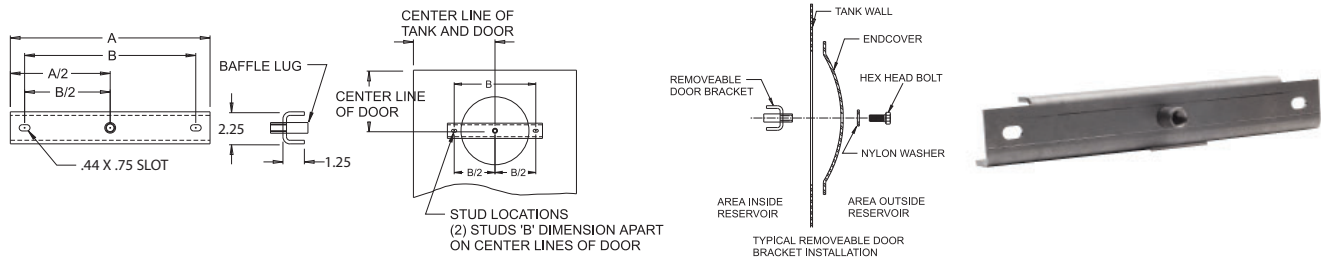
### Standard Features:

- Spider bracket mounted kits are available in two sizes with different options
- A removable bracket style is available
- Quick and easy installation

### Standard Material:

- Carbon Steel

## REMOVABLE ACCESS COVER BRACKET



**NOTE:** All dimensions are inches

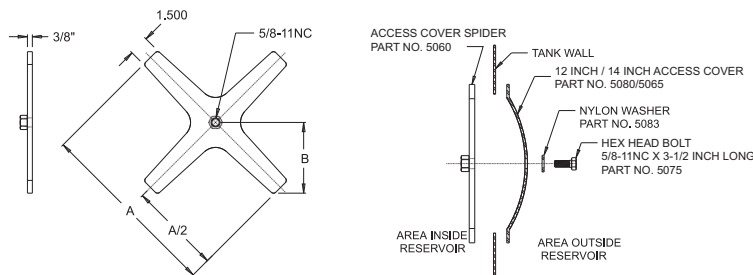
### Removable Access Cover Brackets

Access Cover Dia (inches)	Access Hole Diameter (inches)	Part No.	A (inches)	A/2 (inches)	B (inches)	B/2 (inches)
10	8	V-5393	12.00	6.00	10.00	5.00
12	10	V-5392	14.00	7.00	12.00	6.00
14 / 16	12 / 12.25	V-5390	16.25	8.12	14.25	7.12
18	16	V-5391	20.00	10.00	18.00	9.00

### Each Removable Access Cover Bracket includes:

- (1) Removable Access Cover Bracket
- \*(2) Studs 3/8 inch x 3/4 inch long
- \*(2) 3/8 inch hex nuts
- \*(2) lockwashers
- \*When installed by LDI

## REMOVABLE ACCESS COVER WITH SPIDER



**NOTE:** All dimensions are inches

**NOTE:** Recommended Torque = 15 ft-lb

### Removable Access Cover With Spider

Access Cover Description	Access Hole Diameter (inches)	Part No.	A (inches)	A/2 (inches)	B (inches)
12 inch w/no drain	10	5060-12-S	14.00	7.00	5.31
14 inch w/no drain	12	5060-14-S	14.00	7.00	5.31
12 inch w/ 3/4 inch NPT Drain	10	5060-12-N-S	14.00	7.00	5.31
14 inch w/ 3/4 inch NPT Drain	12	5060-14-N-S	14.00	7.00	5.31
12 inch w/SAE-12 Drain	10	5060-12-S-S	14.00	7.00	5.31
14 inch w/SAE-12 Drain	12	5060-14-S-S	14.00	7.00	5.31

### Available as kit only Each kit includes:

- (1) access cover with gasket
- (1) removable access cover spider
- (1) hex head bolt
- (1) Nylon washer

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# ACCESS COVERS

## CAST BOLT MOUNT — DIN TYPE

DIN Type access covers (Cleanout Covers) are designed to allow access into a dry (drained) reservoir for cleaning, inspection or mounting of components inside of the reservoir.

### Standard Features:

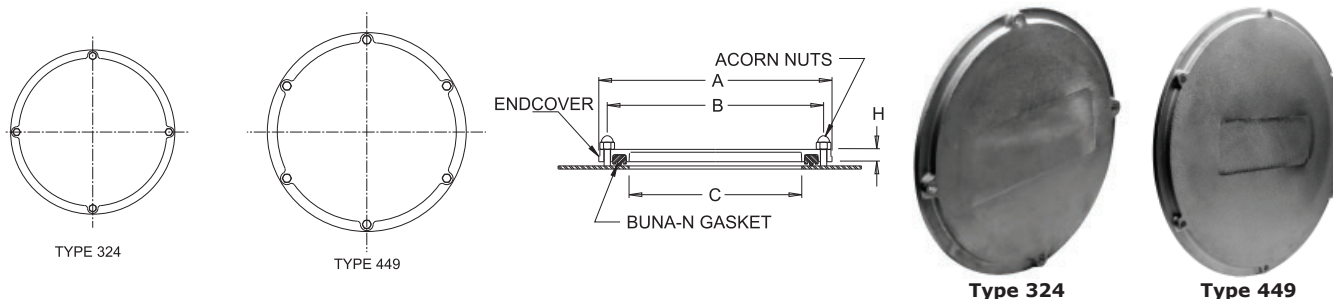
- Multi-bolt mounting for positive sealing
- Available in two sizes
- Does not require a baffle for mounting
- Buna N gasket

### Standard Material:

- Cast Aluminum

### NOTES:

- Recommended Torque = 35 in·lb



**Access Covers: Cast Bolt Mount - DIN Type**

Access Cover Type	*Access Cover Kit No. For All Parts	M10 Acorn Nut Part No.	DIN Type Access Cover Gaskets (Buna N) Part No.	DIN Type Access Cover Part No.	A Dia inches (mm)	B BC inches (mm)	C Cutout inches (mm)	H inches (mm)
324	136699	108499	V-6701	DIN324	13.78 (350)	12.75 (324)	9.76 (248)	.70 (18)
449	136799	108499	V-6702	DIN449	18.70 (475)	17.68 (449)	15.08 (383)	.70 (18)

\*NOTE: Access cover kit includes- (1) DIN type door, (1) Buna N gasket, (4) or (6) acorn nuts. Access cover includes (1) DIN type door and (1) Buna N gasket

## MULTIPLE BOLT ACCESS COVERS

Multiple Bolt Access Cover (Cleanout Cover) are designed to allow access into a dry (drained) reservoir for cleaning, inspection or mounting of components inside of the reservoir.

### Standard Features:

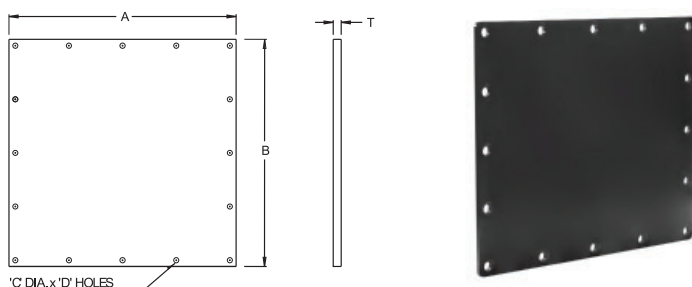
- Multi-bolt mounting bolts for positive sealing
- Larger access hole in the reservoir
- Available in different sizes
- Does not require a baffle for mounting

### Standard Material:

- Carbon Steel

### NOTES:

- Recommended Torque = 25 ft·lb



**Multiple Bolt Access Cover**

Access Cover Size (inches)	Access Hole Size (inches)	Part No.	A (inches)	B (inches)	C (inches)	Qty D	T	Buna N Gasket Part No.
18x18	16x16	5334	18.00	18.00	.44	16	.25	5335
12x14	10x12	5283	14.00	12.00	.44	16	.25	5079
24x24	20x20	5338	24.00	24.00	.44	24	.25	5339

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# ACCUMULATOR BRACKETS & CLAMPS

## VMB SERIES

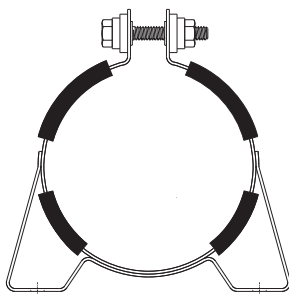
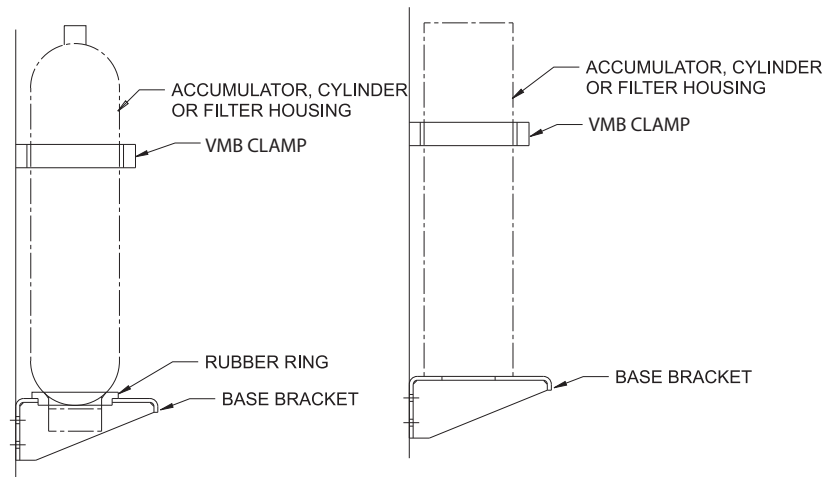
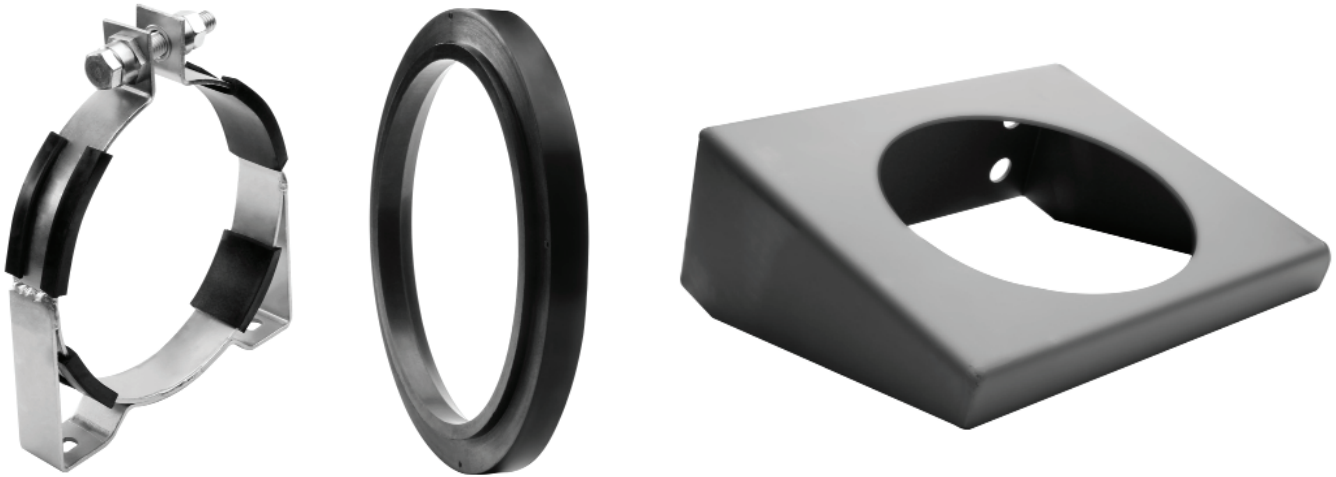
Mounting Brackets are designed to provide simple and secure mounting for accumulators, cylinders and filter housings.

### Standard Features:

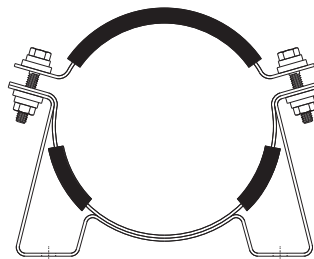
- Rubber cushioning to reduce vibration and noise
- Compensation for thermal expansion and contraction
- Exclusively designed for all types of accumulators, cylinders and filter housings
- Clear Zinc plated to resist corrosion
- Single Bolt Clamp
- Double Bolt Clamp

### Standard Material:

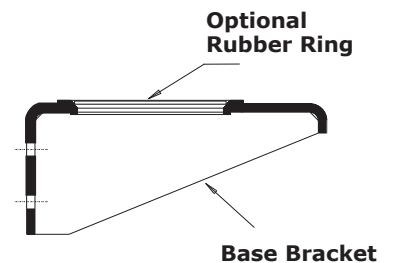
- Rubber ring - Buna N, 70 Durometer



**Type 1**



**Type 2**



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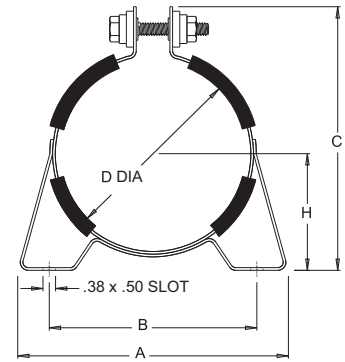
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# ACCUMULATOR BRACKETS & CLAMPS

## VMB SERIES SPECIFICATIONS

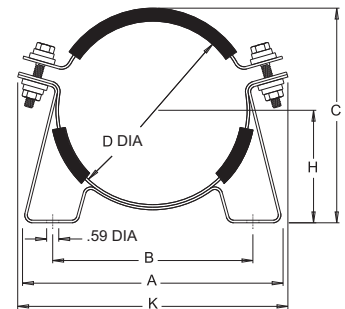
### VMB Series Clamps - Type 1 and Type 2

Part No.	A	B	C	D	H	K	Width	Piece Weight (lbs)
<b>CLAMP-TYPE 1</b>								
VMB-42	5.43	3.94	5.91	4.25	2.52	—	1.25	1.60
VMB-45	5.26	3.94	6.68	4.51	2.87	—	1.25	1.80
VMB-50	6.89	5.35	7.12	4.96	3.03	—	1.25	1.80
VMB-57	6.63	5.35	7.75	5.75	3.50	—	1.25	2.00
VMB-66	7.50	6.02	9.00	6.75	3.94	—	1.25	2.30
<b>CLAMP-TYPE 2</b>								
VMB-81	10.24	8.19	9.06	8.11	4.65	10.83	1.50	3.20
VMB-89	10.00	8.50	9.89	9.12	4.95	12.48	1.50	3.40



**Single Bolt Clamp - Type 1**

**NOTE:** All dimensions are inches



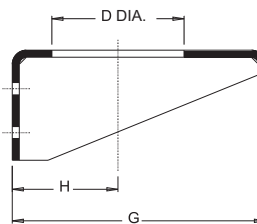
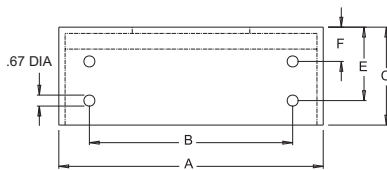
**Double Bolt Clamp - Type 2**

### VMB Series Clamp - Base Brackets and Rubber Ring

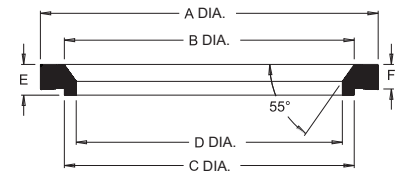
Part No.	A	B	C	D	E	F	G	H	L	Piece Weight (lbs)
<b>Base Bracket</b>										
VMB-47	10.24	7.87	3.94	4.72	2.95	1.38	8.86	3.62	.67	5.5
VMB-67	10.24	7.87	3.94	6.69	2.95	1.38	8.86	4.84	.67	5.3
<b>Rubber Ring</b>										
VMB-425	5.91	4.72	4.69	4.25	.79	.59	Use with VMB-47 Base Bracket			
VMB-625	7.87	6.69	6.65	6.26	.79	.59	Use with VMB-67 Base Bracket			

**Note:** Base Bracket and Rubber Ring must be ordered as separate items

### Base Bracket



### Rubber Ring



### Nominal diameter required for bladder accumulators

Accumulator Size	Clamp Part No.	Qty	Dia (inches)	Base Bracket
1.00 qt	VMB-45	1	4.50	—
2.00 qt	VMB-45	1	4.50	—
1.00 gal	VMB-66	1	6.70	VMB-47
2.50 gal	VMB-89	1	9.00	VMB-67
5.00 gal	VMB-89	2	9.00	VMB-67
7.50 gal	VMB-89	2	9.00	VMB-67
10.00 gal	VMB-89	2	9.00	VMB-67
15.00 gal	VMB-89	3	9.00	VMB-67

**Note:** All dimensions and weights are for general information only. Since products are in continual state of refinement, please verify all critical dimensions with our engineering department.

### Nominal diameter required for piston type accumulators

Accumulator Size	Clamp Part No.	Qty	Dia (inches)	Base* Bracket
1.00 qt	VMB-45	1	4.50	—
2.00 qt	VMB-45	1	4.50	—
1.00 gal	VMB-45	1	4.50	—
1.00 gal	VMB-57	2	5.50	—
1.00 gal	VMB-66	1	7.00	VMB-47
1.50 gal	VMB-45	2	4.50	—
1.50 gal	VMB-57	2	5.50	—
1.50 gal	VMB-66	1	7.00	VMB-47
2.00 gal	VMB-45	1	4.50	—
2.50 gal	VMB-57	2	5.50	—
2.50 gal	VMB-66	1	7.00	VMB-47
2.50 gal	VMB-81	1	8.00	VMB-67
3.00 gal	VMB-57	2	5.50	—
3.00 gal	VMB-66	1	7.00	VMB-47
3.00 gal	VMB-81	1	8.00	VMB-67
4.00 gal	VMB-57	2	5.50	—
4.00 gal	VMB-66	1	7.00	VMB-47

**Note:** \*No Rubber Ring

Accumulator Size	Clamp Part No.	Qty	Dia (inches)	Base* Bracket
4.00 gal	VMB-81	1	8.00	VMB-67
5.00 gal	VMB-57	3	5.50	—
5.00 gal	VMB-66	2	7.00	VMB-47
5.00 gal	VMB-81	1	8.00	VMB-67
5.00 gal	VMB-89	1	9.00	VMB-67
7.50 gal	VMB-66	2	7.00	VMB-67
7.50 gal	VMB-81	2	8.00	VMB-67
7.50 gal	VMB-89	1	9.00	VMB-67
10.00 gal	VMB-81	2	8.00	VMB-67
10.00 gal	VMB-89	2	9.00	VMB-67
15.00 gal	VMB-81	2	8.00	VMB-67
15.00 gal	VMB-89	2	9.00	VMB-67
17.50 gal	VMB-89	3	9.00	VMB-67
20.00 gal	VMB-81	3	8.00	VMB-67
20.00 gal	VMB-89	3	9.00	VMB-67
23.00 gal	VMB-89	3	9.00	VMB-67
25.00 gal	VMB-89	4	9.00	VMB-67

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# AIR OIL COOLERS

Air Oil Coolers are used to cool fluid power systems, gear drives, machine tools, torque converters and hydraulic presses.

## Standard Features:

### • Oil Cooler

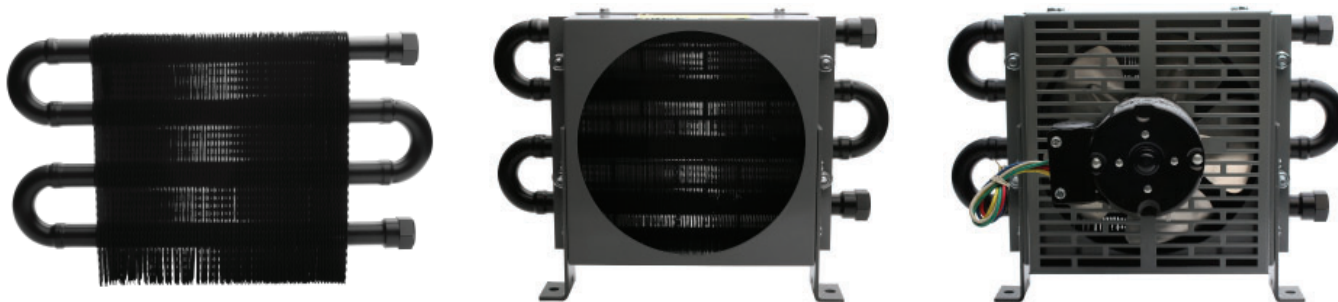
- Rugged construction that resists vibration
- 1/2 inch NPT internal thread mounting connection

### • TEFC Rear Mount Oil Cooler

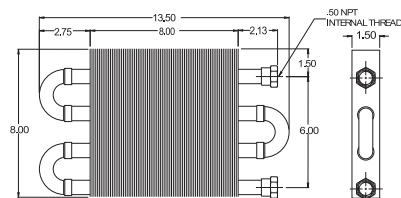
- Compact, efficient design
- Low cost case drain cooling
- Mounts behind existing TEFC motor
- Mounting brackets and gasket
- Operating Pressure - 300 PSI
- Operating Temperature - 350°F
- Air filter has Stainless Steel frame with washable media

### • AC Fan Driven Oil Cooler

- Compact, quiet, efficient design
- Rugged construction resists vibration and stress
- Mounting brackets included
- Operating Pressure - 300 PSI
- Operating Temperature - 350°F
- Air filter has Stainless Steel frame with washable media



## OILCOOLER

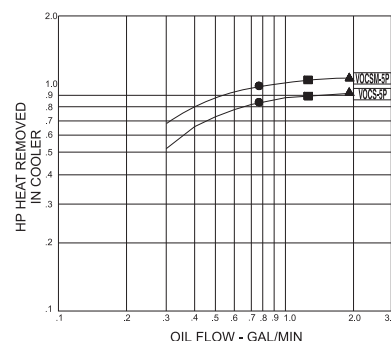


- Highly Efficient Design
- Rugged Construction Resists Vibration

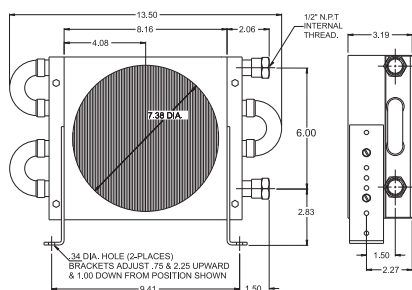
### Order Data / Specifications

Part No.	Flow Range (GPM)	HP Heat Removed	Piece Weight (lbs)
VOC-5-P	0.3-2	1.0	3.0

## PERFORMANCE CURVES



## TEFC REAR MOUNTED OIL COOLER



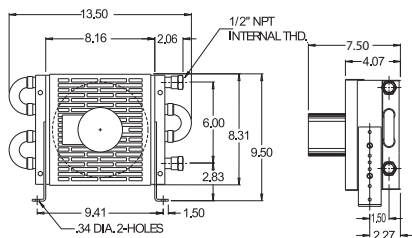
Bracket Adjustment .75 inch and 2.25 inches Upward  
1.00 inch Downward (from position shown)

- Uses air stream from fan of electric motor
- Sized to fit popular electric motor frame sizes
- Durable powder painted cabinet
- Maximizes efficiency with contoured air side fins and internal oil turbulators
- Includes motor gasket and mounting bracket
- Fits Nema frame sizes 48 thru 184T

### Order Data / Specifications

Part No.	Flow Range (GPM)	HP Heat Removed	Piece Weight (lbs)
VOCS-5-P	0.3-2	1.0	6.0

## FORCED AIR OIL COOLER



Bracket Adjustment .75 inch and 2.25 inches Upward  
1.00 inch Downward (from position shown)

**NOTE:** All dimensions are inches

- Compact, highly efficient design with contoured side fins and internal oil turbulators
- Rugged construction resists vibration and stress
- Eliminates sewer and water costs
- Mounting bracket included for easy installation
- Motor voltage 115/230 single phase, 50/60 hertz, 1.2/.60 amps

### Order Data / Specifications

Part No.	Flow Range (GPM)	HP Heat Removed	Piece Weight (lbs)
VOCSM-5-P	0.3-2	1.0	13.0

• VOC-5-P Performance: D-Rate  
VOCS-DP Curve by 25 % (When used  
behind TEFC motor)

• Curves are based in a 40°F  
approach temperature (oil out  
°F-amb air °F)

• Oil Press Drop Coding

- = 5 PSI
- = 10 PSI
- ▲ = 20 PSI

• Average Oil Viscosity = 100 SSU for  
performance rating

• All models above:

- Maximum Pressures — 300 P.S.I.
- Maximum Temperature — 350° F

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# BREATHERS & FILLER BREATHERS

## TOP MOUNT — STANDARD FLOW

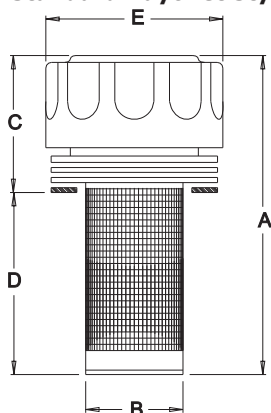
Top Mount Filler Breathers are designed to be used as a filler port for tanks, hydraulic power units or other fluid containers. These units also let the tank breathe while keeping out airborne particles.

### Standard Features:

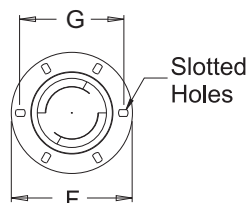
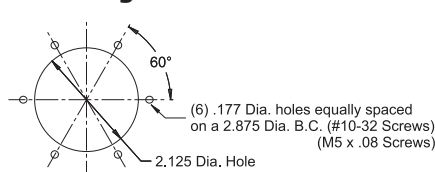
- Bayonet zinc plated steel cap - large capacity
- Twist to lock removable cap breathes and filters air
- Concealed air vents allowing for outdoor applications
- Flute finger inserts for easy gripping (vented style only)
- 10 or 40 micron filtration (vented style only)
- Safety chain - prevents loss of cap
- Heavy duty Cork-Neoprene gasket provides a positive seal between flanges
- Zinc plated flange - bayonet flange (SAE J829)
- Strainer basket
  - 4 inch long Nylon with solid dome bottom to prevent punchout
  - 3 inch long Stainless Steel, 30 mesh
- Thread forming screws -- prevents particles from entering reservoir during installation by forming threads rather than cutting them



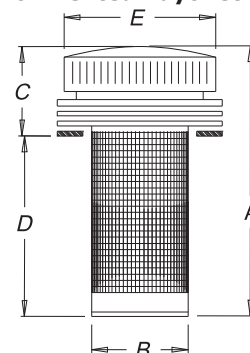
### Standard Bayonet Style



### Mounting Information



### Non Vented Bayonet Style



**NOTE:** All dimensions are inches

### Technical and Dimensional Details

Part No.	Cap Style	Breather (PSI)	Strainer Basket Type	Air Filtration		Air Flow Capacity (CFM)	Oil Transfer Rate (GPM)	Bayonet Flange (inches)						
				Nominal Level	Media			A	B	C	D	E	F	G
Non-Pressurized, Standard Filler Breather - Bayonet Style														
5201	Standard	N/A	Nylon	40 Micron	Foam	25	192	6.10	1.90	2.30	3.80	3.00	3.25	2.88
5204	Standard	N/A	Nylon	10 Micron	Foam	15	115	6.10	1.90	2.30	3.80	3.00	3.25	2.88
5216	Standard	N/A	Stainless Steel	40 Micron	Foam	25	192	5.10	1.90	2.30	2.80	3.00	3.25	2.88
5220	Standard	N/A	Stainless Steel	10 Micron	Foam	15	115	5.10	1.90	2.30	2.80	3.00	3.25	2.88
Pressurized, Standard Filler Breather - Bayonet Style														
5205	Standard	5	Stainless Steel	10 Micron	Foam	25	192	5.10	1.90	2.30	2.80	3.00	3.25	2.88
Non-Pressurized, Non-Vented Filler Breather - Bayonet Style														
5232	Non Vented	N/A	Nylon	N/A	N/A	N/A	N/A	6.10	1.90	1.30	3.80	2.44	3.25	2.88
5227	Non Vented	N/A	Stainless Steel	N/A	N/A	N/A	N/A	5.10	1.90	1.30	2.80	2.44	3.25	2.88
Non-Pressurized, Metric Mounting Filler Breather - Bayonet Type														
5203	Standard	N/A	Nylon	40 Micron	Foam	25	192	6.10	1.90	2.30	3.80	3.00	3.25	2.88

### Ordering Information Options

- For Locking Tabs add LT to part number (3/8 inch dia. hole to accept padlock)(not available in non vented breathers)

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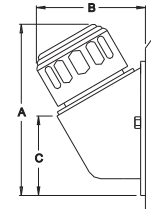
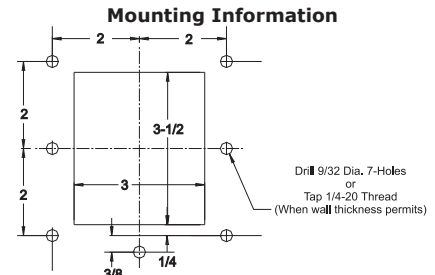
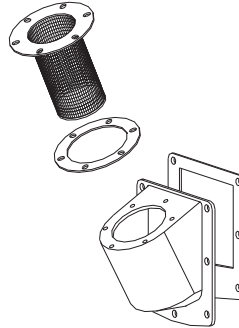
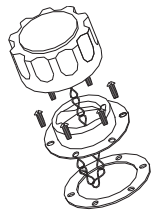
# BREATHERS & FILLER BREATHERS

## SIDE MOUNT — STANDARD FLOW

Side Mount Filler Breathers are designed to be used where top surfaces are not readily available for locating a filler port. This unit easily mounts on vertical tank walls. These units filter the fluid as it is added and also lets the tank breathe while keeping out airborne particles.

### Standard Features:

- Zinc plated steel cap - large capacity
- Twist to lock removable cap breathes and filters air
- Air vents are concealed allowing for outdoor application
- Fluted finger insertions for easy gripping
- 10 or 40 micron filtration
- Safety chain prevents loss of cap
- Heavy duty Cork-Neoprene gaskets provide a positive seal between flanges
- Zinc plated flange - bayonet type (SAE J829)
- 3 inch, 30 mesh Stainless Steel strainer
- Thread forming screws - prevents particles from entering reservoir during installation by forming threads instead of cutting them
- Tough glass-reinforced Nylon housing
- Includes (7) 1/4-20 NC x 1 inch bolts, nylon washers and nuts for mounting



- NOTES:**
- All dimensions are inches
  - Requires .69 inch clearance for cap removal



**Side Mount Filler Breathers - Technical and Dimensional Details**

Part No.	Cap Style	Breather	Strainer Basket Type	Air Filtration		Air Flow Capacity (CFM)	Oil Transfer Rate (GPM)	Bayonet Flange (inches)		
				Nominal Level	Media			A	B	C
SM-5201	Std.	Non-Pres	Stainless	40 Micron	Foam	25	192	6.10	3.90	3.20
SM-5204	Std.	Non-Pres	Stainless	10 Micron	Foam	15	115	6.10	3.90	3.20

## SCREW-IN BREATHER — NICKEL PLATED STEEL W/FILTER

Screw-In Breather insures a free flow of air into hydraulic tanks or other fluid containers. These units let the tank breathe while keeping out airborne particles.

### Standard Features:

- Chrome plated cap -- large capacity
- Cap breathes and filters air
- Air vents are concealed allowing for outdoor applications
- Fluted finger inserts for easy gripping
- 40 micron filtration

### Standard Material:

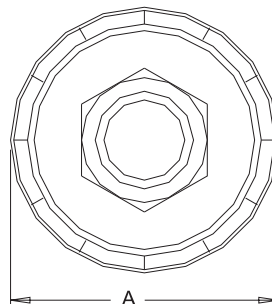
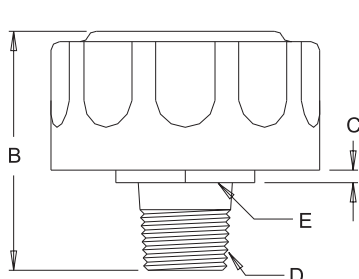
- Nickel plated steel

### Temperature Rating:

- 212°F (100°C)

### Mounting Information:

- Any standard 3/4 inch NPT (female) threaded pipe port



**Miniature Breather - Technical and Dimensional Details**

Part No.	Cap Style	Breather	Air Filtration		Air Flow Capacity (CFM)	Oil Transfer Rate (GPM)	Dimensions (inches)				
			Nominal Level	Media			A	B	C	D NPT	E Hex
V-5213	Blank	Screw-In	40 Micron	Foam	30	192	3.00	2.70	.50	3/4 inch	1.38

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# BREATHERS & FILLER BREATHERS

## MINIATURE BREATHER — POLYMER W/FILTER

LDI Miniature Tank Breathers are designed to replace more costly, less efficient breathers and to improve the filtering performance of the breather vent.

### Standard Features:

- 40 micron air filtration
- Gray cap for high visibility

### PMB Series Features

- Suitable for use on hydraulic power packs or tanks subject to change in liquid volume

### SGB Series Features

- Splash guard that prevents oil loss
- Suitable for use where oil is violently agitated and could be splashed against breather cap

### Standard Material:

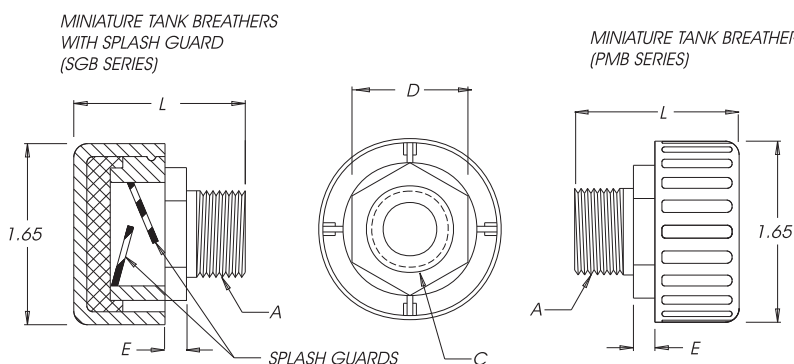
- Polyamide based technopolymer cap

### Temperature Rating:

- -22°F (-30°C) to 212°F (100°C)

### Mounting Information:

- PMB/SGB-02-10 - Any standard 1/4 inch NPT (female) threaded pipe port
- PMB/SGB-05-10 - Any standard 3/8 inch NPT (female) threaded pipe port
- PMB/SGB-03-10 - Any standard 1/2 inch NPT (female) threaded pipe port
- PMB/SGB-07-10 - Any standard 3/4 inch NPT (female) threaded pipe port



**NOTE:** All dimensions are inches

### PMB and SGB Series - Technical & Dimensional Details

Part No.	A NPT	C Hole Dia	D Hex	E Flat	L Overall Length	Splash Guard
<b>PMB-02-10</b>	1/4	.27	.62	.27	1.53	No
<b>PMB-05-10</b>	3/8	.31	.75	.27	1.73	No
<b>PMB-03-10</b>	1/2	.47	1.00	.27	1.85	No
<b>PMB-07-10</b>	3/4	.70	1.13	.27	1.85	No
<b>SGB-02-10</b>	1/4	.27	.62	.27	1.53	Yes
<b>SGB-05-10</b>	3/8	.31	.75	.27	1.73	Yes
<b>SGB-03-10</b>	1/2	.47	1.00	.27	1.85	Yes
<b>SGB-07-10</b>	3/4	.70	1.13	.27	1.85	Yes

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# BREATHERS & FILLER BREATHERS

## TOP MOUNT — HIGH FLOW

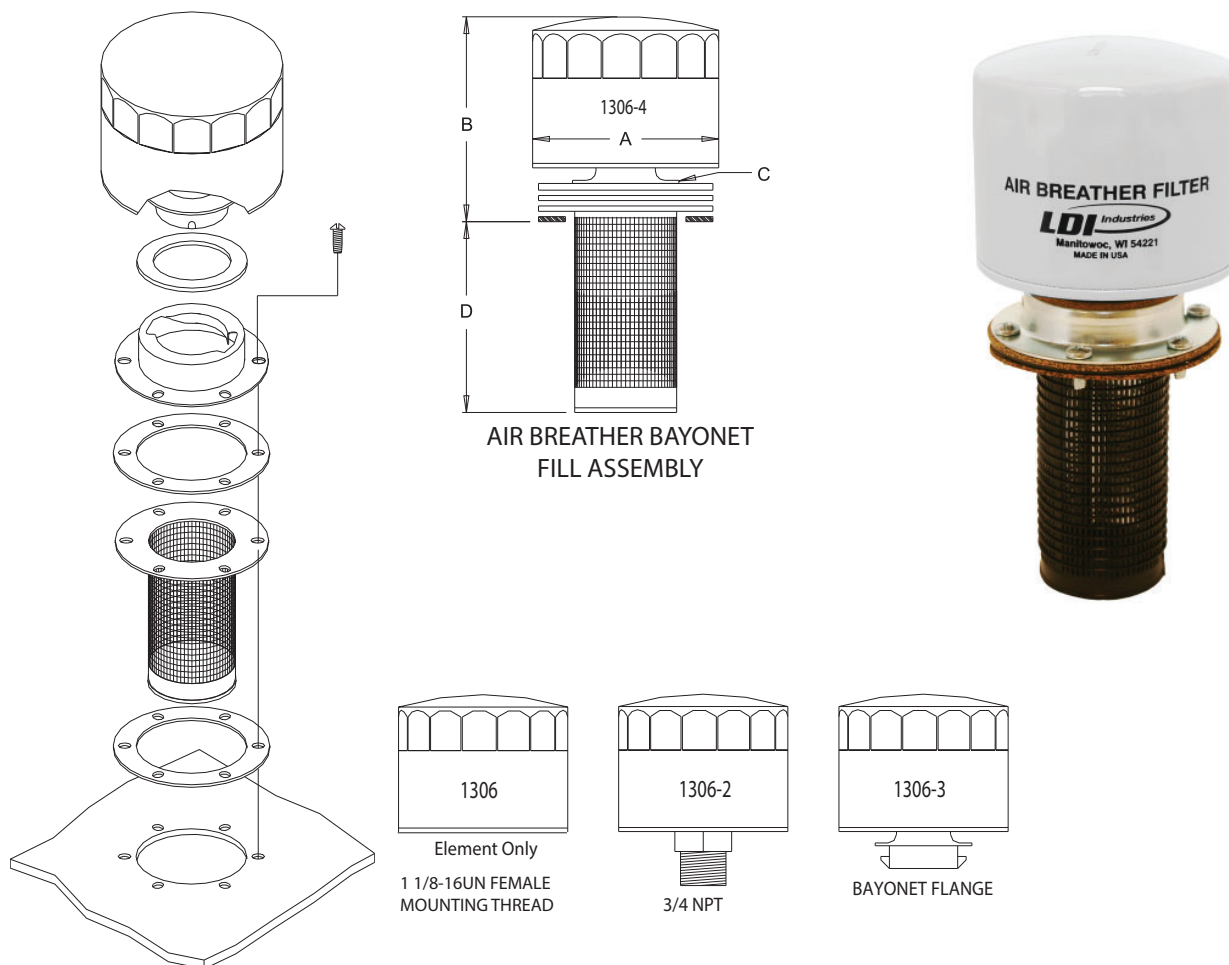
Top Mount Filler Breathers protect your hydraulic systems from ingesting airborne particles. These breathers feature a large pleated surface area providing an exceptional dirt holding capacity that extends the life of the breather and thus the length of time between servicing.

### Standard Features:

- 3 micron and above filtration
- High capacity air flow

### Mounting Information:

- 3/4 inch NPT (male) adapter - any standard 3/4 inch NPT (female) threaded pipe port
- SAE bayonet flange adapter - any mating SAE bayonet flange adapter



### Technical and Dimensional Details

Part No.	Description	Normal Capacity (SCFM)	Air Flow PSI Drop	A Dia (inches)	B Dim (inches)	C Adapter	D Dim (inches)
1306	Air Breather Filter Element Only	40	.4 PSI @ 20 SFM 1.25 PSI at 40 SCFM	3.68	3.25	N/A	N/A
1306-2	Air Breather w/ 3/4 inch NPT Adapter				4.38	3/4 inch NPT (male)	N/A
1306-3	Air Breather with Bayonet Flange Adapter				4.50	SAE Bayonet	N/A
1306-4*	Air Breather Bayonet Fill Assembly				4.50	SAE Bayonet	3.80

**\*NOTE:** 1306-4 includes (1) air breather filter, (1) cap gasket, (1) flange gasket, (1) flange SAE 1829, (1) 4 inch Nylon strainer basket, (1) tank gasket, (6) mounting screws

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# BREATHERS & FILLER BREATHERS

## DES-CASE

### Attack the cause of oil contamination

Industry spends millions of dollars annually treating the negative effects of oil contamination. Des-Case Breather attacks the cause as opposed to treating the problem of contamination.

Designed and developed by filtration engineers, the hygroscopic breather is a unique, patented air filter and water vapor removal system. It will virtually eliminate moisture and particulate contamination in industrial equipment reservoirs such as hydraulic tanks and gear boxes.

### Unique Filtration Process

Moisture and particulate accumulation are major factors of oil contamination in industrial equipment. Neglected, these detriments restrict equipment efficiency, causing machine downtime and significant expense in replacement oil, parts and repair labor.

Des-Case breathers incorporate a proven, field tested design. They prevent water and contaminants from entering fluid reservoirs as differential pressures occur through thermal expansion and contraction of the fluid, or during the filling or emptying process.

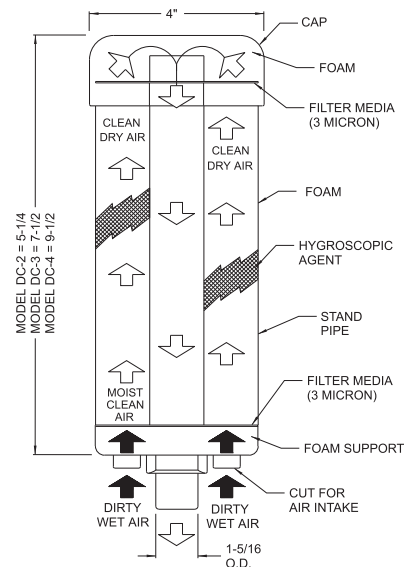
Manufactured with a hygroscopic agent, Des-Case breathers utilize the entire filter area, and have the capability of extracting water vapor from the air as it is drawn through the unit. Accompanying solid particulate is then removed by a patented polyester fabric filter, allowing only clean, dry air to enter the system.

### Change to Des-Case™ for Maximum Machine Performance

Hygroscopic breather elements are state-of-the-art in design and function, and are industry's best choice for assuring maximum machine performance.

Des-Case offers these cost-saving benefits:

- Elimination of water-contaminated oil which leads to additive stripping
- Less abrasive particles to prolong machine operating life
- Elimination of rust-forming condensation
- Longer oil and oil filter life
- Elimination of sludge deposits



### Resilient Construction...Multiple Applications

Every Des-Case hygroscopic breather is manufactured in a durable, shock absorbing clear plastic casing with resilient qualities to withstand the customary abuse associated with heavy manufacturing equipment. The units are disposable, and are manufactured entirely of environmentally safe components.

Des-Case disposable hygroscopic breathers are manufactured in three sizes DC2, DC3, and DC4 to accommodate different mounting space requirements. All three models are rated for 20 cfm of air in and out of the tank or reservoir (the equivalent of 150 gpm fluid level change in the reservoir). The patented air flow design produces a partial regeneration of the hygroscopic agent and a back flushing (cleaning) of the particulate filter when the air leaves the reservoir.

### Color Visually Indicates Unit Condition

To activate the unit, the protruding air intake nipples must be opened. The more nipples cut, the greater the breathing capacity.

Every Des-Case breather will remain effective as long as the hygroscopic agent's color in the transparent unit remains **BLUE**. A light **PINK** color indicates 100% saturation and the need to replace the unit.

### Low Unit Cost...Long Shelf Life... Varied Industrial and Commercial Applications

Des-Case hygroscopic breathers are readily available and the modest price of these units is insignificant when compared to the costs associated with machine down time, replacement parts and labor. Each Des-Case breather is packaged and shipped in an airtight container for long-lasting shelf life.

Manufactured in the U.S.A., Des-Case units have excellent field test records and are utilized in a wide range of industries- food processing, automotive manufacturing, paper mills, transportation, robotics, power generation and many more.

### Design Flexibility Permits Easy Installation Regardless of Equipment Location

Des-Case hygroscopic breathers are designed for installation on most equipment regardless of location. For installation in difficult areas, Des-Case offers (2) mounting options for ease of installation and unit maintenance.

# BREATHERS & FILLER BREATHERS

## DES-CASE

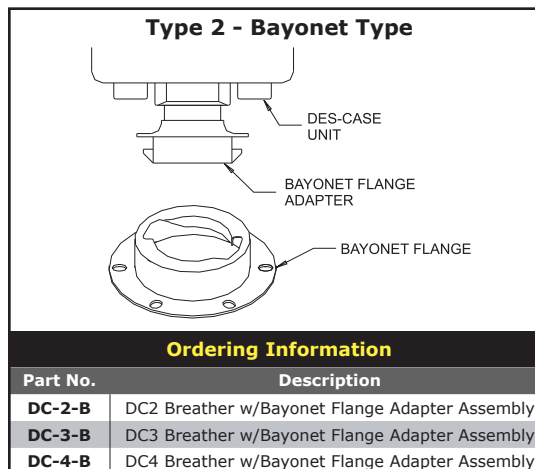
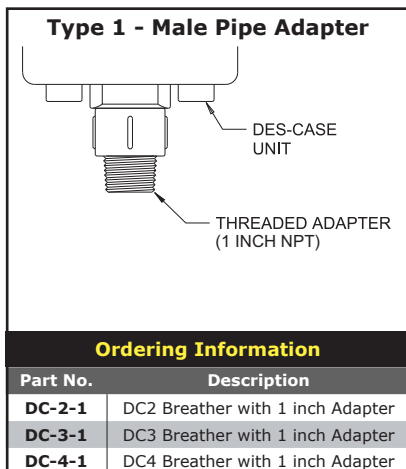
Des-Case's desiccant breathers incorporate a high-efficiency filter to help sustain cleanliness levels by preventing the ingress of even minute particulate matter. Water adsorbing silica gel creates low relative humidity levels in the headspace to make condensation and absorption by the lubricant unlikely.

### Standard Features:

- 1 inch NPT or bayonet flange adapter
- Multi-tiered filtration process
- Filter element captures particles at 3-micron absolute
- Filter media changes color to indicate need for replacement
- Rated for 20 CFM

### Standard Materials:

- Nylon standpipe
- Clear Polycarbonate casing
- Silica gel hydrophilic agent
- Polyester filter



DES-CASE Basic Specifications									
Type 1 Male Pipe Adapter Part No.	Type 2 Bayonet Part No.	Body Material	Unit Height inches (cm)	Diameter inches (cm)	Absorbance Capacity	Operating Temp.	Silica Gel Amount	Cap	Shipping Weight (unit/case)
DC-2-1	DC-2-B	Polycarbonate and Nylon	6.125 (15.56)	4.00 (10.16)	0.13 L	-20F° to 200F° (-29C° to 93C°)	11 oz	Black	1 lb 3 oz / 9 lbs
DC-3-1	DC-3-B		8.125 (20.64)		0.23 L		1 lb 4 oz	Blue	1 lb 12 oz / 11 lbs 8 oz
DC-4-1	DC-4-B		10.125 (25.72)		0.35 L		1 lb 14 oz	White	2 lbs 7 oz / 16 lbs

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# BREATHERS & FILLER BREATHERS

## SERIES AB

### WITH POLYESTER, PAPER OR WIRE MESH ELEMENT

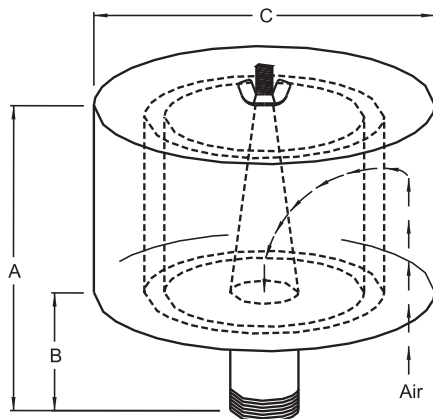
Air Breathers stop airborne dirt from entering the reservoir as the oil is removed. They allow the reservoir to breathe with clean, filtered air as the oil level changes.

#### Standard Features:

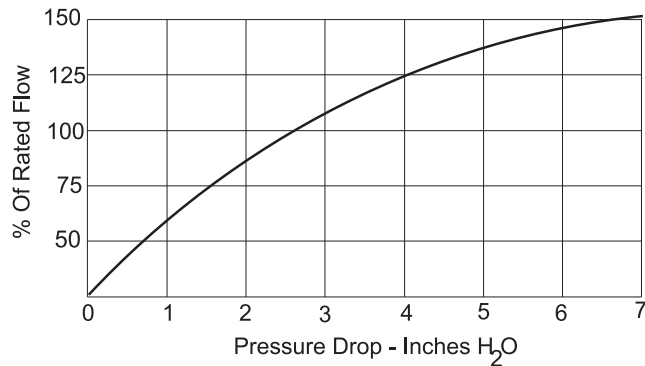
- Fully drawn weatherhood -- no welds to rust or vibrate apart
- Low entry velocity air gap between base and cover
- Heavy gauge base with low pressure drop outlet pipe and center bracket design
- Interchangeable elements
- Center bracket located for minimal flow restriction

#### Standard Materials:

- Durable carbon steel construction with powder coat finish



Normal Flow Curve



AB Series										
Polyester Element	Part No. Paper Element	Wire Mesh Element	Effective Surface Area of Element in Square Feet		Application CFM		NPT Connection (inch)	Dimensions (inches)		
			Polyester	Paper	Pulsating Flow	Continuous Flow		A	B	C
AB-E19P-125	AB-E18P-125	AB-E18S-125	1.5	3.0	60	80	1 1/4	6.50	1.50	6.00
AB-E19P-150	AB-E18P-150	AB-E18S-150	1.5	3.0	60	80	1 1/2	6.50	1.50	6.00
AB-E31P-200	AB-E30P-200	AB-E30S-200	2.3	5.7	60	135	2	7.25	2.25	7.75
AB-E31P-250	AB-E30P-250	AB-E30S-250	2.3	5.7	80	195	2 1/2	7.50	2.50	7.75
AB-E231P-300	AB-E230P-300	AB-E230S-300	4.5	10.9	300	300	3	13.00	3.00	10.00

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# BREATHERS & FILLER BREATHERS

## SERIES AB REPLACEMENT ELEMENTS

Air Breathers stop airborne dirt from entering the reservoir as the oil is removed. They allow the reservoir to breathe with clean, filtered air as the oil level changes.

### Standard Features - Polyester Elements:

- Pleated industrial needle felt polyester media
- Reinforced with epoxy coated steel wire on both sides of the media
- Washable with warm water and mild detergent
- Dust loading capacity is increased 40-50% with prefilter "P" designation at end of element part number
- 5 micron, 99% efficiency

### Standard Features - Wire Mesh:

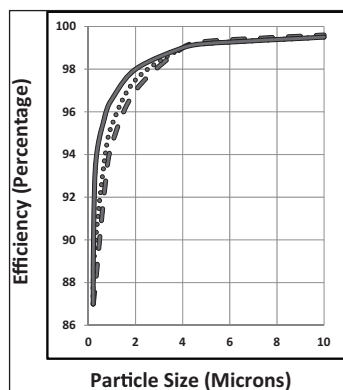
- Handles hot air and oil mist from unload cycle of reciprocating/piston compressor
- More durable than paper media
- Moisture resistant
- Epoxy coated wire mesh pleated media

### Temperature Rating:

- Temperature range -26° F to 220° F (-15° C to 104°C)

### Standard Features - Paper Elements:

- Heavy duty industrial strength paper surrounded by heavy gauge galvanized expanded metal
- Lightly blow out media to clean
- Dust loading capacity is increased 40-50% with prefilter "P" designation at end of element part number
- 2 micron, 99% efficiency

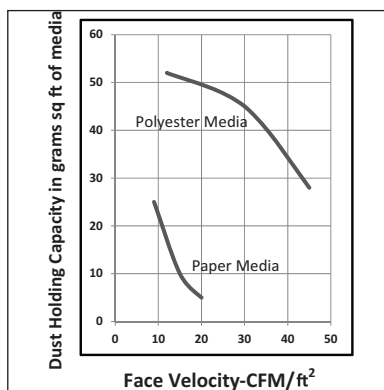


**Polyester Media Efficiency Chart**

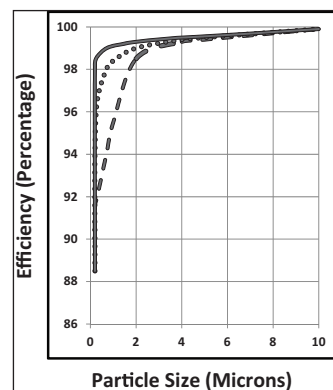
Particle Size vs. Filter Efficiency  
Polyester Media at Indicated Face Velocity:

15 CFM/ft<sup>2</sup> media —————  
30 CFM/ft<sup>2</sup> media .....  
45 CFM/ft<sup>2</sup> media - - - - -

**NOTE:** Efficiency charts are based on SAE Fine Dust Tests



**Face Velocity-CFM/ft²  
Dust Holding Capacity**



**Paper Media Efficiency Chart**

Particle Size vs. Filter Efficiency  
Paper Media at Indicated Face Velocity:

10 CFM/ft<sup>2</sup> media —————  
15 CFM/ft<sup>2</sup> media .....  
20 CFM/ft<sup>2</sup> media - - - - -



### AB Series Replacement Elements

Polyester Element	Part No. Paper Element	Wire Mesh Element	Flow CFM	Effective Surface Area of Element in Square Feet		Dimensions (inches)		
				Polyester	Paper	ID	OD	HT
<b>E19P</b>	<b>E18P</b>	<b>E18S</b>	100	1.5	3.0	3.00	4.75	4.75
<b>E31P</b>	<b>E30P</b>	<b>E30S</b>	195	2.3	5.7	3.38	5.75	4.75
<b>E231P</b>	<b>E230P</b>	<b>E230S</b>	300	4.5	10.9	3.75	5.75	9.50

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# COUPLING & FLANGE CONNECTIONS

## SAE COUPLINGS

Our SAE couplings are designed to be welded into a reservoir, terminal bar or inline piping. The SAE tees can reduce the need for multiple fittings.

### Standard Features:

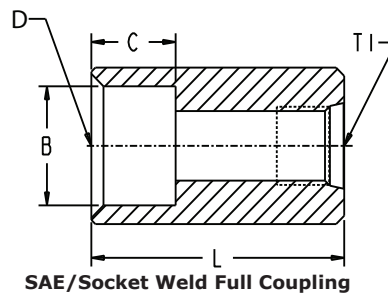
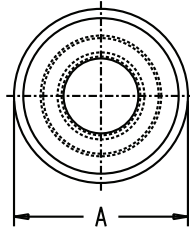
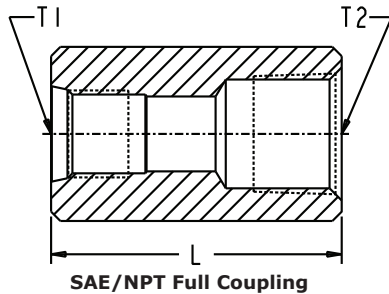
- Provides a o-ring seal to prevent leaks
- Couplings are available in full and half thread
- Full couplings are available in SAE to SAE, SAE to NPT and SAE to Socket Weld
- Tee's are available in reduced branch thread sizes

### Standard Materials:

- 1117 CRS
- 316 Stainless Steel

### Temperature Ratings:

- Temperature ratings vary by material selection for o-ring tank seal



## SAE/NPT FULL COUPLING

SAE/NPT Full Coupling						
Steel Part No.	Stainless Steel Part No.	L Length inches	A Dia inches	T1 SAE Dash Size	T1	T2 (NPTF)
1000	11600	1.875	1.125	-6	9/16-18	1/2-14
1001	11601	1.875	1.125	-8	3/4-16	1/2-14
1002	11602	2.000	1.375	-10	7/8-14	3/4-14
1003	11603	2.000	1.375	-12	1 1/16-12	3/4-14
1005	11605	2.375	1.750	-16	1 5/16-12	1-11 1/2
1006	11606	2.625	2.250	-20	1 5/8-12	1 1/4-11 1/2
1007	11607	3.000	2.500	-24	1 7/8-12	1 1/2-11 1/2
1008	11608	3.375	3.000	-32	2 1/2-12	2-11 1/2

## SAE/SOCKET WELD FULL COUPLING

SAE/Socket Weld Full Coupling							Dimensions	
Steel Part No.	Stainless Steel Part No.	L Length inches	A Diameter inches	T1 SAE Dash Size	T1	Port D Socket for Pipe Size (inches)	B inches	C inches
1080	—	1.875	1.125	-6	9/16-18	1/2	.855	.625
1081	11681	1.875	1.125	-8	3/4-16	1/2	.855	.625
1083	11683	2.000	1.375	-12	1 1/16-12	3/4	1.065	.750
1085	11685	2.375	1.750	-16	1 5/16-12	1	1.330	1.000
1086	11686	2.625	2.250	-20	1 5/8-12	1 1/4	1.675	1.000
1087	11687	3.000	2.500	-24	1 7/8-12	1 1/2	1.915	1.000
1088	—	3.375	3.250	-32	2 1/2-12	2	2.406	1.250

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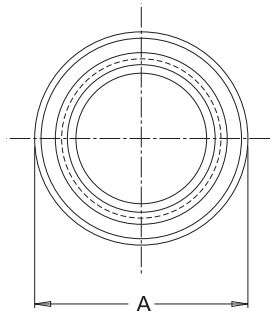
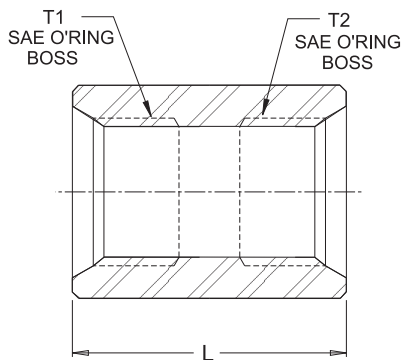


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# COUPLING & FLANGE CONNECTIONS

## SAE COUPLINGS (CONT'D)

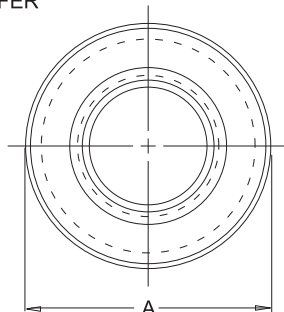
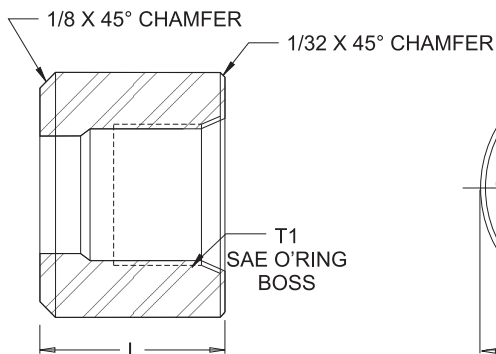
### SAE O-RING BOSS FULL COUPLING



**SAE O-Ring Boss Full Coupling**

Steel Part No.	L Length inches	A Dia inches	T1	T1 SAE Dash Size	T2	T2 SAE Dash Size
<b>1020</b>	1.500	.875	7/16-20	-4	7/16-20	-4
<b>1021</b>	1.375	1.000	9/16-18	-6	9/16-18	-6
<b>1022</b>	1.500	1.250	3/4-16	-8	3/4-16	-8
<b>1023</b>	1.750	1.500	7/8-14	-10	7/8-14	-10
<b>1024</b>	2.000	1.625	1 1/16-12	-12	1 1/16-12	-12
<b>1026</b>	2.000	2.000	1 5/16-12	-16	1 5/16-12	-16
<b>1027</b>	2.500	2.500	1 5/8-12	-20	1 5/8-12	-20
<b>1028</b>	2.500	2.500	1 7/8-12	-24	1 7/8-12	-24
<b>1029</b>	2.750	3.250	2 1/2-12	-32	2 1/2-12	-32

### SAE HALF COUPLING



**SAE Half Coupling**

Steel Part No.	Stainless Steel Part No.	L Length inches	A Diameter inches	T1 thread	T1 SAE Dash Size
<b>6206</b>	<b>8906</b>	.750	.875	7/16-20	-4
<b>6207</b>	—	.750	1.000	1/2-20	-5
<b>6208</b>	<b>8908</b>	.750	1.000	9/16-18	-6
<b>6209</b>	<b>8909</b>	.750	1.250	3/4-16	-8
<b>6210</b>	<b>8910</b>	.875	1.500	7/8-14	-10
<b>6211</b>	<b>8911</b>	1.000	1.625	1 1/16-12	-12
<b>6213</b>	<b>8913</b>	1.250	2.000	1 5/16-12	-16
<b>6214</b>	<b>8914</b>	1.250	2.500	1 5/8-12	-20
<b>6215</b>	<b>8915</b>	1.250	2.500	1 7/8-12	-24
<b>6216</b>	<b>8916</b>	1.375	3.250	2 1/2-12	-32

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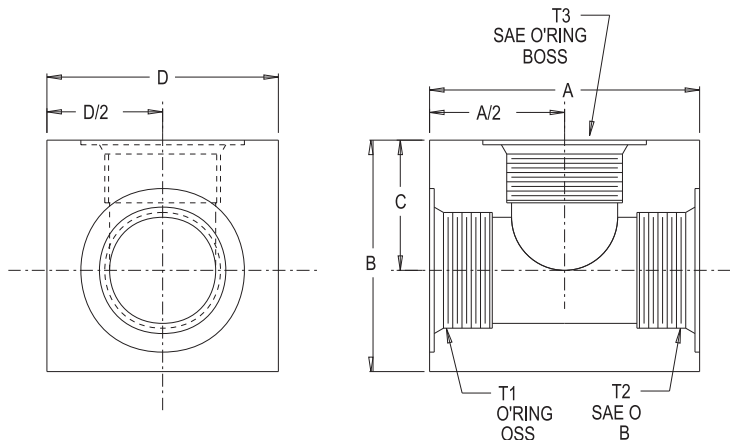
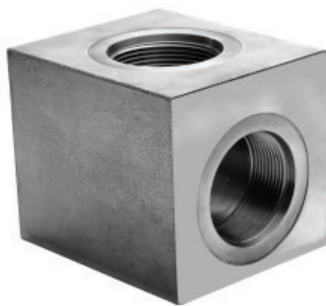
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# COUPLING & FLANGE CONNECTIONS

## SAE COUPLINGS (CONT'D)

### SAE STRAIGHT THREAD TEE COUPLING



Material: 1117 CRS

Thread Tee Coupling										
Part No.	SAE Dash Size						Dimensions			
	T1	T2	T3	T1	T2	T3	A inches	B inches	C inches	D inches
<b>1040</b>	2 1/2-12	2 1/2-12	2 1/2-12	-32	-32	-32	5.00	4.00	2.19	4.00
<b>1041</b>	2 1/2-12	2 1/2-12	1 7/8-12	-32	-32	-24	5.00	4.00	2.19	4.00
<b>1043</b>	2 1/2-12	1 7/8-12	1 7/8-12	-32	-24	-24	5.00	4.00	2.19	4.00
<b>1045</b>	1 7/8-12	1 7/8-12	1 7/8-12	-24	-24	-24	4.12	3.50	2.00	3.50
<b>1048</b>	1 7/8-12	1 5/8-12	1 5/8-12	-24	-20	-20	4.12	3.50	2.00	3.50
<b>1050</b>	1 5/8-12	1 5/8-12	1 5/8-12	-20	-20	-20	3.50	2.75	1.62	2.75
<b>1051</b>	1 5/8-12	1 5/8-12	1 5/16-12	-20	-20	-16	3.50	2.75	1.62	2.75
<b>1052</b>	1 5/8-12	1 5/16-12	1 5/8-12	-20	-16	-20	3.50	2.75	1.62	2.75
<b>1053</b>	1 5/8-12	1 5/16-12	1 5/16-12	-20	-16	-16	3.50	2.75	1.62	2.75
<b>1054</b>	1 5/16-12	1 5/16-12	1 5/8-12	-16	-16	-20	3.25	2.50	1.50	2.50
<b>1055</b>	1 5/16-12	1 5/16-12	1 5/16-12	-16	-16	-16	3.25	2.50	1.50	2.50
<b>1056</b>	1 5/16-12	1 5/16-12	1 1/16-12	-16	-16	-12	3.25	2.50	1.50	2.50
<b>1060</b>	1 1/16-12	1 1/16-12	1 1/16-12	-12	-12	-12	3.00	2.12	1.31	2.12
<b>1070</b>	3/4-16	3/4-16	3/4-16	-8	-8	-8	2.62	1.75	1.12	1.75
<b>1075</b>	9/16-18	9/16-18	9/16-18	-6	-6	-6	2.62	1.75	1.12	1.75

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Pg RA-20

# COUPLING & FLANGE CONNECTIONS

## 4 BOLT FLANGE - THREADED x O-RING FACE

The 4 Bolt Flange is a known leak-free connection. It is specifically designed for use in high pressures, larger pipes and tight quarters applications. They are commonly used to connect larger sized hose and tubing in fluid power systems.

### Standard Materials:

- Carbon Steel

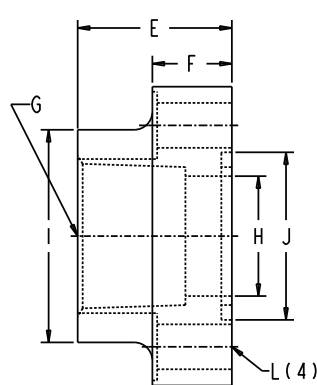
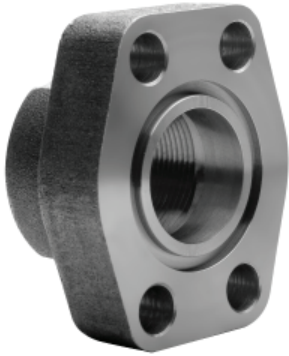


Figure 1

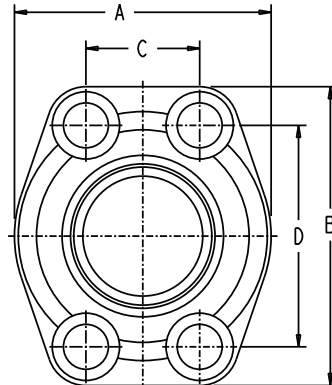


Figure 2

Refer to page 27 for metric mounting options

### Code 61 - 3000 PSI NPTF Thread

O-Ring Part No. Fig 1	Flat Face Part No. Fig 2	inches												Mounting Hardware		
		G Port Size (NPTF)	Pad Size	A	B	C	D	E	F	H	I	J	L Drill Dia	Mounting Hardware		
														K Tap	O-Ring	SHCS
W43-8-8-U	W104-8-8	1/2	.50	1.81	2.13	.688	1.500	1.42	.63	.50	1.25	1.000	.344	5/16-18	210	5/16-18x1.25
W43-12-12-U	W104-12-12	3/4	.75	1.97	2.56	.875	1.875	1.42	.71	.75	1.54	1.250	.406	3/8-16	214	3/8-16x1.50
W43-16-16-U	W104-16-16	1	1.00	2.17	2.75	1.031	2.062	1.50	.71	1.00	1.81	1.560	.406	3/8-16	219	3/8-16x1.50
W43-20-20-U	W104-20-20	1 1/4	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.25	2.22	1.750	.469	7/16-14	222	7/16-14x1.75
W43-24-24-U	W104-24-24	1 1/2	1.50	3.07	3.66	1.406	2.750	1.77	.98	1.50	2.50	2.115	.531	1/2-13	225	1/2-13x1.75
W43-32-32-U	W104-32-32	2	2.00	3.54	4.00	1.688	3.062	1.77	.98	2.00	3.12	2.490	.531	1/2-13	228	1/2-13x1.75
W43-40-40-U	W104-40-40	2 1/2	2.50	4.09	4.49	2.000	3.500	1.97	.98	2.50	3.62	2.995	.531	1/2-13	232	1/2-13x1.75
W43-48-48-U	W104-48-48	3	3.00	4.88	5.28	2.438	4.188	1.97	1.06	3.00	4.47	3.615	.656	5/8-11	237	5/8-11x2.00

Part Numbers with "U" suffix include Bolt Kit and O Ring

### Code 61 - 3000 PSI NPTF Thread Reducing

O-Ring Part No. Fig 1	Flat Face Part No. Fig 2	inches												Mounting Hardware		
		G Port Size (NPTF)	Pad Size	A	B	C	D	E	F	H	I	J	L Drill Dia	Mounting Hardware		
														K Tap	O-Ring	SHCS
W43-12-16-U	-	3/4	1.00	2.17	2.75	1.031	2.062	1.50	.71	.75	1.81	1.560	.406	-	219	3/8-16x1.50
W43-16-20-U	-	1	1.25	2.68	3.12	1.188	2.312	1.61	.83	1.00	2.22	1.750	.469	-	222	7/16-14x1.75
W43-20-24-U	-	1 1/4	1.50	3.07	3.66	1.406	2.750	1.77	.98	1.25	2.50	2.115	.531	-	225	1/2-13x1.75
W43-24-32-U	-	1 1/2	2.00	3.54	4.00	1.688	3.062	1.77	.98	1.50	3.12	2.490	.531	-	228	1/2-13x1.75

Part Numbers with "U" suffix include Bolt Kit and O Ring

### Code 62 - 6000 PSI NPTF Thread

O-Ring Part No. Fig 1	Flat Face Part No. Fig 2	inches												Mounting Hardware		
		G Port Size (NPTF)	Pad Size	A	B	C	D	E	F	H	I	J	L Drill Dia	Mounting Hardware		
														K Tap	O-Ring	SHCS
W44-8-8-U	-	1/2	.50	1.81	2.21	.718	1.594	1.25	.63	.50	1.33	1.000	.344	5/16-18	210	5/16-18x1.25
W44-12-12-U	-	3/4	.75	2.17	2.80	.937	2.000	1.25	.83	.75	1.65	1.250	.406	3/8-16	214	3/8-16x1.50
W44-16-16-U	-	1	1.00	2.56	3.19	1.093	2.250	1.50	.98	1.00	1.98	1.560	.492	7/16-14	219	7/16-14x1.75
W44-20-20-U	-	1 1/4	1.25	3.07	3.75	1.250	2.625	1.50	1.06	1.25	2.36	1.750	.531	1/2-13	222	1/2-13x1.75
W44-24-24-U	-	1 1/2	1.50	3.70	4.41	1.437	3.125	1.75	1.18	1.50	2.68	2.115	.656	5/8-11	225	5/8-11x2.25
W44-32-32-U	-	2	2.00	4.50	5.28	1.750	3.812	1.75	1.46	2.00	3.38	2.490	.781	3/4-10	228	3/4-10x2.75

Part No. with "U" suffix include Bolt Kit and O Ring

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# COUPLING & FLANGE CONNECTIONS

## 4 BOLT FLANGE - THREADED x O-RING FACE (CONT'D)

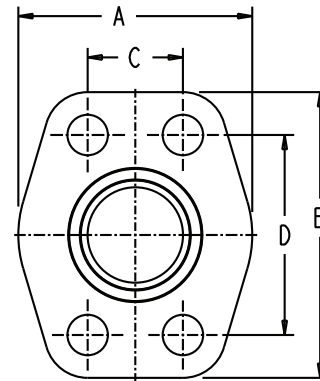
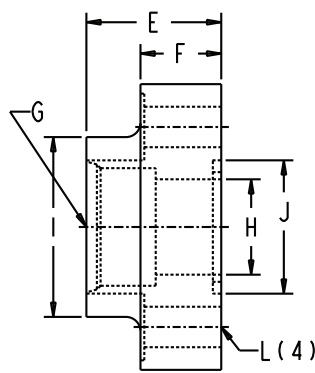
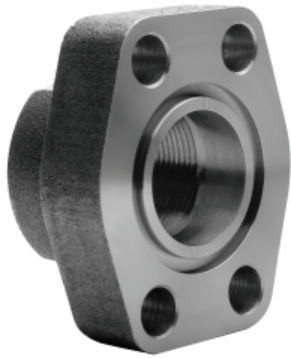


Figure 1

Refer to page 27 for metric mounting options

### Code 61 - 3000 PSI SAE Straight Thread

O-Ring Part No. Fig 1	SAE Port Size	Pad Size	inches						G Straight Thread	inches				K Tap	Mounting Hardware	
			A	B	C	D	E	F		H	I	J Max	L Drill Dia		O-Ring	SHCS
W46-12-12-U	-12	.75	1.97	2.56	.875	1.875	1.42	.71	1 1/16-12	.75	1.54	1.255	.406	-	214	3/8-16x1.50
W46-16-16-U	-16	1.00	2.17	2.75	1.031	2.062	1.50	.71	1 5/16-12	1.00	1.81	1.565	.406	-	219	3/8-16x1.50
W46-20-20-U	-20	1.25	2.68	3.12	1.188	2.312	1.61	.83	1 5/8-12	1.25	2.22	1.755	.469	-	222	7/16-14x1.75
W46-24-24-U	-24	1.50	3.07	3.66	1.406	2.750	1.77	.98	1 7/8-12	1.50	2.50	2.125	.531	-	225	1/2-13x1.75

Part Numbers with "U" suffix include Bolt Kit and O Ring

### Code 62 - 6000 PSI SAE Straight Thread

O-Ring Part No. Fig 1	SAE Port Size	Pad Size	inches						G Straight NPTF	inches				K Tap	Mounting Hardware	
			A	B	C	D	E	F		H	I	J Max	L Drill Dia		O-Ring	SHCS
W48-12-12-U	-12	.75	2.17	2.80	.937	2.000	1.25	.83	1 1/16-12	.75	1.65	1.255	.406	3/8-16	214	3/8-16x1.50
W48-16-16-U	-16	1.00	2.56	3.19	1.093	2.250	1.50	.98	1 5/16-12	1.00	1.98	1.565	.492	7/16-14	219	7/16-14x1.75
W48-20-20-U	-20	1.25	3.07	3.75	1.250	2.625	1.50	1.06	1 5/8-12	1.25	2.36	1.755	.531	1/2-13	222	1/2-13x1.75
W48-24-24-U	-24	1.50	3.70	4.41	1.437	3.125	1.75	1.18	1 7/8-12	1.50	2.68	2.125	.656	5/8-11	225	5/8-11x2.25
W48-32-32-U	-32	2.00	4.50	5.28	1.750	3.812	1.75	1.46	2 1/2-12	2.00	3.38	2.500	.781	3/4-10	228	3/4-10x2.75

Part No. with "U" suffix include Bolt Kit and O Ring



# COUPLING & FLANGE CONNECTIONS

## 4 BOLT FLANGE - SOCKET x O-RING FACE

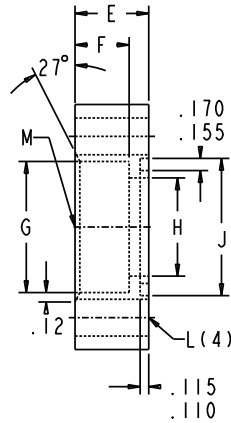


Figure 1

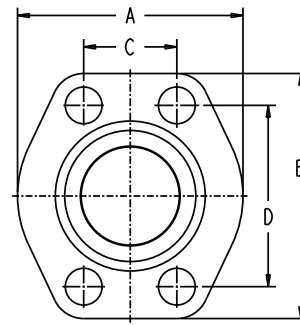


Figure 2

Refer to page 27 for metric mounting options

NOTE: All dimensions are inches

### Code 61 - 3000 PSI Flat Socket-Pipe

O-Ring Part No. Fig 1	Flat Face Part No. Fig 2	inches												Mounting Hardware		
		M Port Size	Pad Dash Size	A	B	C	D	E	F	G Dia	H	J Max	L Drill Dia	K Tap	O-Ring	SHCS
W4-8-8-U	W61-8-8	1/2	-8	1.813	2.125	.688	1.500	.75	.560	.855	.50	1.005	.344	5/16-18	210	5/16-18x1.50
W4-12-12-U	W61-12-12	3/4	-12	2.063	2.563	.875	1.875	.75	.560	1.062	.75	1.255	.406	3/8-16	214	3/8-16x1.50
W4-16-16-U	W61-16-16	1	-16	2.313	2.750	1.031	2.063	.88	.630	1.326	1.00	1.565	.406	3/8-16	219	3/8-16x1.75
W4-20-20-U	W61-20-20	1 1/4	-20	2.875	3.125	1.188	2.313	.94	.690	1.672	1.25	1.755	.469	7/16-14	222	7/16-14x1.75
W4-24-24-U	W61-24-24	1 1/2	-24	3.250	3.688	1.406	2.750	1.19	.750	1.922	1.50	2.125	.531	1/2-13	225	1/2-13x2.25
W4-32-32-U	W61-32-32	2	-32	3.813	4.000	1.688	3.063	1.38	.875	2.406	2.00	2.500	.531	1/2-13	228	1/2-13x2.50
W4-40-40-U	W61-40-40	2 1/2	-40	4.281	4.500	2.000	3.500	1.75	1.00	2.906	2.50	3.005	.531	1/2-13	232	1/2-13x2.75
W4-48-48-U	W61-48-48	3	-48	5.156	5.313	2.438	4.188	2.12	1.25	3.547	3.00	3.625	.656	5/8-11	237	5/8-11x3.50

Part No. with "U" suffix include Bolt Kit and O Ring

### 500 PSI Flat Socket-Pipe

O-Ring Part No. Fig 1	Flat Face Part No. Fig 2	inches												Mounting Hardware		
		M Port Size	Pad Dash Size	A	B	C	D	E	F	G	H	J Max	L Drill Dia	K Tap	O-Ring	SHCS
W72-48-48-U	-	3	-48	5.12	5.31	2.438	4.188	1.38	1.12	3.547	3.00	3.625	.656	-	237	5/8-11x2.50
W72-56-56-U	-	3 1/2	-56	5.50	6.00	2.750	4.750	1.44	1.19	4.047	3.50	4.115	.656	-	241	5/8-11x2.75
W72-64-64-U	-	4	-64	6.00	6.38	3.062	5.125	1.50	1.25	4.578	4.00	4.615	.656	-	245	5/8-11x2.75

Part No. with "U" suffix include Bolt Kit and O Ring

### Code 62 - 6000 PSI Flat Socket-Pipe

O-Ring Part No. Fig 1	Flat Face Part No. Fig 2	inches												Mounting Hardware		
		M Port Size	Pad Dash Size	A	B	C	D	E	F	G	H	J Max	L Drill Dia	K Tap	O-Ring	SHCS
-	W60-20-20	1 1/4	-20	3.06	3.75	1.250	2.625	1.50	.690	1.672	1.25	1.755	.531	1/2-13	222	1/2-13x2.50
-	W60-24-24	1 1/2	-24	3.75	4.44	1.437	3.125	1.75	.750	1.922	1.50	2.125	.656	5/8-11	225	5/8-11x3.00

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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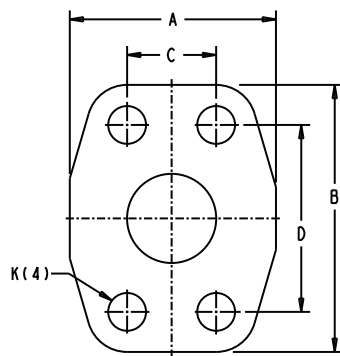
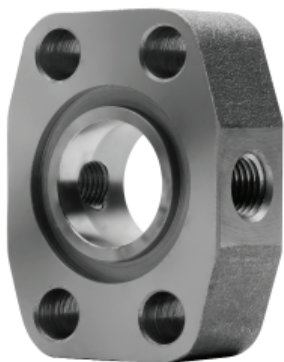
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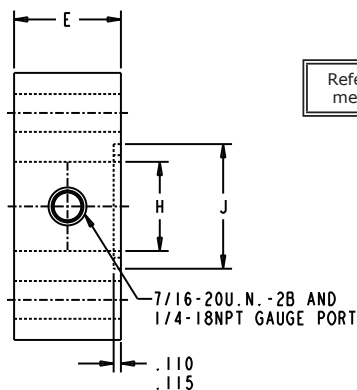
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# COUPLING & FLANGE CONNECTIONS

## 4 BOLT FLANGE - GAGE PORT SPACER



Includes o-ring and plugs  
for both ports



Refer to page 27 for  
metric mounting options

**NOTE:** All dimensions are inches

### Code 61 - SAE O Ring Spacer

Part No.	Pad Dash Size	inches									O-ring No.
		A	B	C ±.010	D ±.010	E	H	J Min.	J Max.	K Dia.	
AS-12-GP	-12	2.063	2.563	0.875	1.875	0.88	0.750	1.250	1.255	0.406	214
AS-16-GP	-16	2.313	2.750	1.031	2.063	0.88	1.000	1.560	1.565	0.406	219
AS-20-GP	-20	2.875	3.125	1.188	2.313	0.94	1.250	1.750	1.755	0.469	222
AS-24-GP	-24	3.250	3.688	1.406	2.750	1.19	1.500	2.115	2.125	0.531	225
AS-32-GP	-32	3.813	4.000	1.688	3.063	1.38	2.000	2.490	2.500	0.531	228

### Code 62 - SAE O Ring Spacer

Part No.	Pad Dash Size	inches									O-ring No.
		A	B	C ±.010	D ±.010	E	H	J Min.	J Max.	K Dia.	
ASX-20-GP	-20	3.06	3.75	1.250	2.625	1.500	1.250	1.750	1.755	0.531	222

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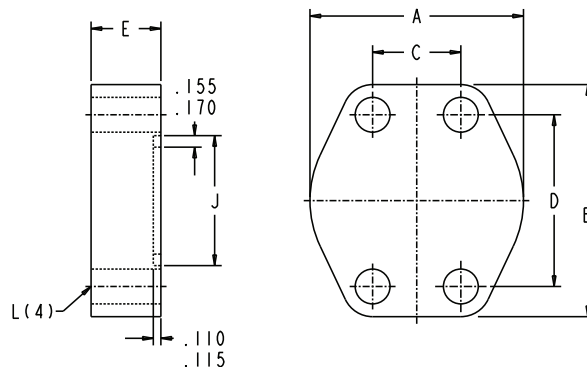
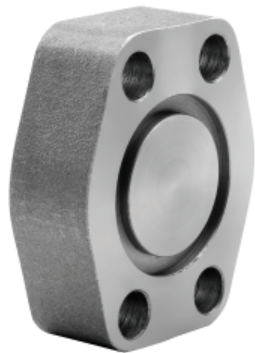
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# COUPLING & FLANGE CONNECTIONS

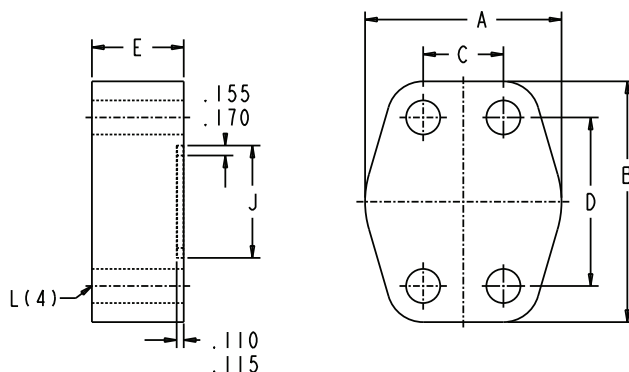
## 4 BOLT FLANGE - BLANKING x O-RING FACE



Refer to page 27 for metric mounting options

**NOTE:** All dimensions are inches

Code 61 - 3000 PSI Blanking											
O-Ring Part No.	Pad Dash Size	inches								Mounting Hardware	
		A	B	C	D	E	J Min	J Max	L Drill Dia	O-Ring	SHCS
W36-12-12-U	-12	2.063	2.563	.875	1.875	.750	1.250	1.255	.406	214	3/8-16x1.50
W36-16-16-U	-16	2.313	2.750	1.031	2.063	.880	1.560	1.565	.406	219	3/8-16x1.75
W36-20-20-U	-20	2.875	3.125	1.188	2.313	.940	1.750	1.755	.469	222	7/16-14x1.75
W36-24-24-U	-24	3.250	3.688	1.406	2.750	1.190	2.115	2.125	.531	225	1/2-13x2.25
W36-32-32-U	-32	3.813	4.000	1.688	3.063	1.440	2.490	2.500	.531	228	1/2-13x2.50
W36-40-40-U	-40	4.281	4.500	2.000	3.500	1.815	2.995	3.005	.531	232	1/2-13x2.75
The Part No. suffix "U" reflects Bolt Kit and O-Ring are included.											



**NOTE:** All dimensions are inches

Code 62 - 6000 PSI Blanking											
O-Ring Part No.	Pad Dash Size	inches								Mounting Hardware	
		A	B	C	D	E	J Min	J Max	L Drill Dia	O-Ring	SHCS
W38-12-12-U	-12	2.50	2.95	.937	2.000	1.250	1.250	1.255	.406	214	3/8-16x1.50
W38-16-16-U	-16	2.75	3.19	1.093	2.250	1.500	1.560	1.565	.469	219	7/16-14x1.75
W38-24-24-U	-24	3.75	4.44	1.437	3.125	1.815	2.115	2.125	.656	225	5/8-11x2.25
The Part No. suffix "U" reflects Bolt Kit and O-Ring are included.											

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# COUPLING & FLANGE CONNECTIONS

## ELBOW - 4 BOLT FLANGE x NPTF

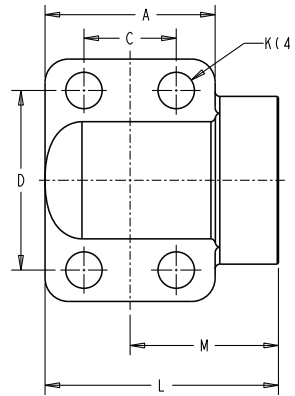
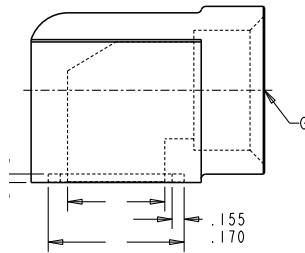
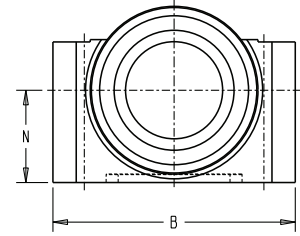


Figure 1



Refer to page 27 for metric mounting options

NOTE: All dimensions are inches

Code 61 - 3000 PSI Elbow NPTF Thread																	
O-Ring Part No. Fig 1	G Port Size (NPTF)	inches													Mounting Hardware		
		Pad Dash Size	A	B	C	D	E	H	J Min	J Max.	K Drill Dia	L	M	N			
		O-Ring	SHCS														
W168-16-16-U	1	-16	1.94	2.75	1.031	2.062	1.50	1.00	1.560	1.565	.406	2.62	1.66	1.062	219	3/8-16x2.25	
W168-20-20-U	1 1/4	-20	2.19	3.12	1.188	2.312	1.81	1.25	1.750	1.755	.469	3.00	1.91	1.188	222	7/16-14x2.75	
Part No. with "U" suffix include Bolt Kit and O Ring																	

Part No. with "U" suffix include Bolt Kit and O Ring

## ELBOW - 4 BOLT FLANGE x PIPE SOCKET

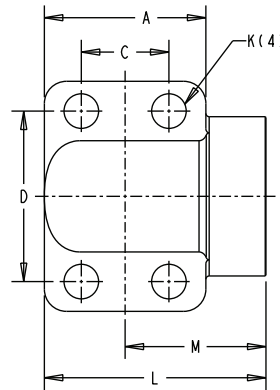
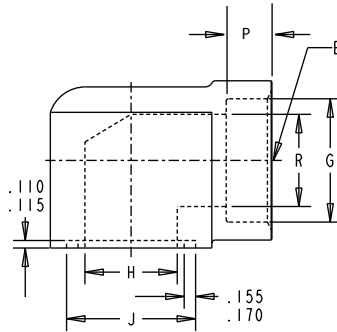
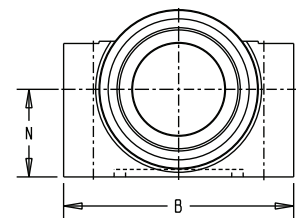


Figure 2



Refer to page 27 for metric mounting options

NOTE: All dimensions are inches

Code 61 - 3000 PSI Elbow Socket Weld																	
O-Ring Part No. Fig 2	E Port Size	Pad Dash Size	inches													Mounting Hardware	
			A	B	C	D	G	H	J Min	J Max	K Drill Dia	L	M	N	P	R	O-Ring
W176-12-12-U	3/4	-12	1.69	2.56	.875	1.875	1.062	.75	1.250	1.255	.406	2.28	1.44	.875	.56	0.75	214
W176-16-16-U	1	-16	1.94	2.75	1.031	2.062	1.328	1.00	1.560	1.565	.406	2.62	1.66	1.062	.56	1.00	219
W176-20-20-U	1 1/4	-20	2.19	3.12	1.188	2.312	1.672	1.25	1.750	1.755	.469	3.00	1.91	1.188	.62	1.25	222
W176-24-24-U	1 1/2	-24	2.56	3.69	1.406	2.750	1.922	1.50	2.115	2.125	.531	3.28	2.05	1.312	.69	1.50	225
W176-32-32-U	2	-32	3.06	4.33	1.688	3.062	2.406	2.00	2.490	2.500	.531	3.81	2.28	1.656	.75	2.00	228

Part No. with "U" suffix include Bolt Kit and O Ring

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# COUPLING & FLANGE CONNECTIONS

## SAE J518 SPLIT FLANGE

A Split Flange is made of two halves, and installment is easy on existing piping. Designed to allow easy assembly of the hose in tight quarters applications and provide tilt proof clamping. Split Flanges come in two varieties.

### Standard Features:

- Conforms to SAE J518 / ISO 6162
- Code 61 (3000 PSI) - Series SF
- Code 62 (6000 PSI) - Series SFX
- Each Kit contains: (2) split flange halves, (4) hex head bolt and lock washers, (1) Buna N o-ring



See below for metric mounting options

### Standard Materials:

- Carbon Steel
- Zinc Plated

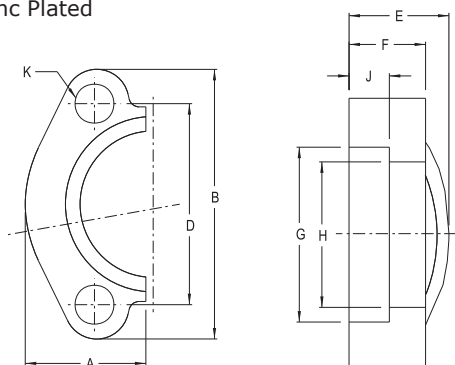


Figure 1

### Code 61 Split Flange (Figure 1)

Part No.	Flange Size inches	A inches ±.030	B inches ±.030	D inches ±.010	E inches ±.030	F inches ±.016	G inches ±.010	H inches ±.010	J inches ±.005	K inches ±.010	Mounting Hardware	
											O-Ring	HHCS
12 SF-0	.75	.98	2.56	1.875	.88	.56	1.531	1.265	.245	.406	214	3/8-16 x 1.25
16 SF-0	1.00	1.11	2.75	2.062	.94	.62	1.781	1.515	.295	.406	219	3/8-16 x 1.25
20 SF-0	1.25	1.39	3.12	2.312	.88	.56	2.031	1.720	.295	.469	222	7/16-14 x 1.50
24 SF-0	1.50	1.58	3.69	2.750	1.00	.62	2.406	2.000	.295	.531	225	1/2-13 x 1.50
32 SF-0	2.00	1.86	4.00	3.062	1.03	.62	2.844	2.470	.355	.531	228	1/2-13 x 1.50
40 SF-0	2.50	2.09	4.50	3.500	1.50	.75	3.344	2.950	.355	.531	232	1/2-13 x 1.75
48 SF-0	3.00	2.53	5.31	4.188	1.62	.88	4.031	3.580	.355	.656	237	5/8-11 x 2.00
56 SF-0	3.50	2.70	6.00	4.750	1.12	.88	4.531	4.030	.422	.656	241	5/8-11 x 2.00

### Code 62 Split Flange (Figure 1)

Part No.	Flange Size inches	A inches ±.030	B inches ±.030	D inches ±.010	E inches ±.030	F inches ±.016	G inches ±.010	H inches ±.010	J inches ±.005	K inches ±.010	Mounting Hardware	
											O-Ring	HHCS
12SFX-0	.75	1.14	2.81	2.00	1.12	.75	1.656	1.280	.325	.406	214	3/8-16 x 1.50
16SFX-0	1.00	1.33	3.19	2.250	1.31	.94	1.906	1.530	.355	.469	219	7/16-14 x 1.75
20SFX-0	1.25	1.48	3.75	2.625	1.50	1.06	2.156	1.750	.385	.531	222	1/2-13 x 1.75
24SFX-0	1.50	1.83	4.44	3.125	1.69	1.19	2.531	2.030	.475	.656	225	5/8-11 x 2.25
32SFX-0	2.00	2.20	5.25	3.812	2.06	1.44	3.156	2.660	.475	.781	228	3/4-10 x 2.75

### Metric Mounting Options

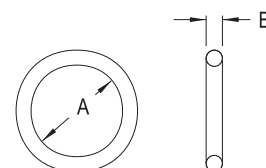
Code 61 Metric Mounting		
Pad Size	Metric Drilled Bolt Holes	Metric Tapped Bolt Holes
8	8.5 mm	M8 x 1.25
12	10.5 mm	M10 x 1.50
16	10.5 mm	M10 x 1.50
20	10.5 mm	M10 x 1.50
24	12.5 mm	M12 x 1.75
32	12.5 mm	M12 x 1.75
40	12.5 mm	M12 x 1.75
48	16.5 mm	M16 x 2.00
56	16.5 mm	M16 x 2.00
64	16.5 mm	M16 x 2.00

Code 62 Metric Mounting		
Pad Size	Metric Drilled Bolt Hole	Metric Tapped Bolt Holes
8	8.5 mm	M8 x 1.25
12	10.5 mm	M10 x 1.50
16	12.5 mm	M12 x 1.75
20	14.5 mm	M14 x 2.00
24	16.5 mm	M16 x 2.00
32	21.0 mm	M20 x 2.50

All items in our SAE Flange line are available with Metric Mounting options. Listed here are the standard metric drilled hole diameters and metric tapped holes which are provided both for the Code 61 and Code 62 applications.

### O Ring Information

90 Durometer Buna N O-Ring for Split Clamp Heads			
O-Ring	Size inch	A inch	B inch
210	0.50	0.75	0.139
214	0.75	1.00	0.139
219	1.00	1.31	0.139
222	1.25	1.60	0.139
228	2.00	2.25	0.139
232	2.50	2.75	0.139
237	3.00	3.38	0.139
241	3.50	3.88	0.139
245	4.00	4.38	0.139



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# COUPLING & FLANGE CONNECTIONS

## SUCTION FLANGES FOR PIPE/TUBING

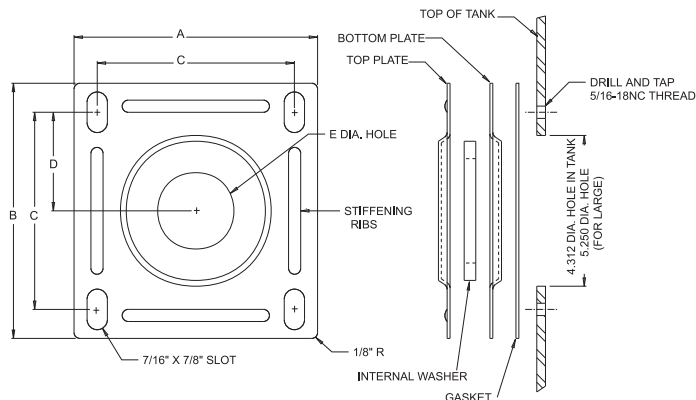
Suction/Return Flanges and Grommets are designed to seal pipe or tube lines when passing through the top plate of a hydraulic reservoir or similar applications. Suction Flanges also allow access for removal of a suction element for inspection without draining the reservoir.

### Standard Features:

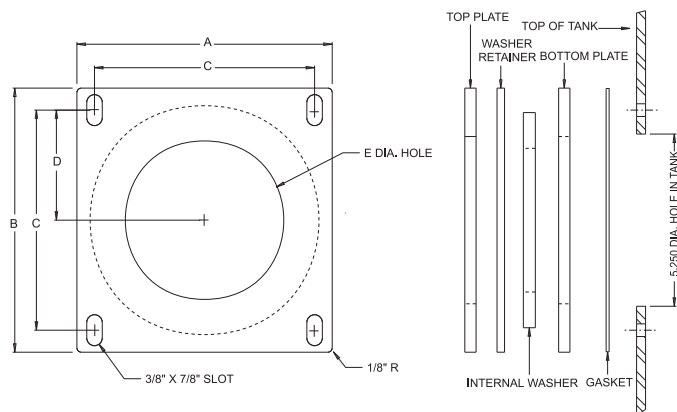
- (1) Top plate
- (1) Internal washer
- (1) Bottom plate
- (1) Gasket
- (4) 5/16-18 thread forming screws

### Standard Material:

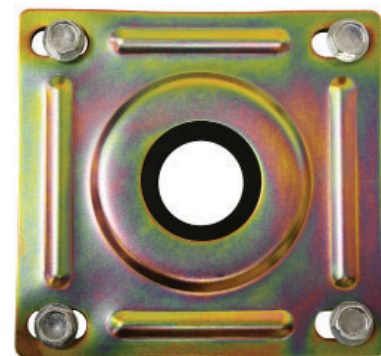
- Zinc plated Carbon Steel



Part Numbers 5100-5179 and 5880-5891



Part Numbers 5180-5181



Suction Flanges for Pipe						
Part No.	Dimensions (inches)					Pipe Size
	A	B	C	D	E	
<b>5100</b>	5.25	5.50	4.25	2.12	1.19	1/2
<b>5101</b>	5.25	5.50	4.25	2.12	1.19	3/4
<b>5102</b>	5.25	5.50	4.25	2.12	1.75	1
<b>5103</b>	5.25	5.50	4.25	2.12	1.75	1 1/4
<b>5104</b>	5.25	5.50	4.25	2.12	2.50	1 1/2
<b>5105</b>	5.25	5.50	4.25	2.12	2.50	2
<b>5187</b>	7.25	7.50	6.25	3.12	3.12	1 1/2
<b>5188</b>	7.25	7.50	6.25	3.12	3.12	2
<b>5178</b>	7.25	7.50	6.25	3.12	3.75	2 1/2
<b>5179</b>	7.25	7.50	6.25	3.12	3.75	3
<b>5180</b>	7.25	7.50	6.25	3.12	4.75	3 1/2
<b>5181</b>	7.25	7.50	6.25	3.12	4.75	4

Suction Flanges for Tubing						
Part No.	Dimensions (inches)					Tube Size OD
	A	B	C	D	E	
<b>5891</b>	5.25	5.50	4.25	2.12	1.19	.38
<b>5880</b>	5.25	5.50	4.25	2.12	1.19	.50
<b>5881</b>	5.25	5.50	4.25	2.12	1.19	.62
<b>5882</b>	5.25	5.50	4.25	2.12	1.19	.75
<b>5883</b>	5.25	5.50	4.25	2.12	1.75	1.00
<b>5884</b>	5.25	5.50	4.25	2.12	1.75	1.25
<b>5885</b>	5.25	5.50	4.25	2.12	2.50	1.50

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# COUPLING & FLANGE CONNECTIONS

## RETURN FLANGES FOR PIPE AND TUBING

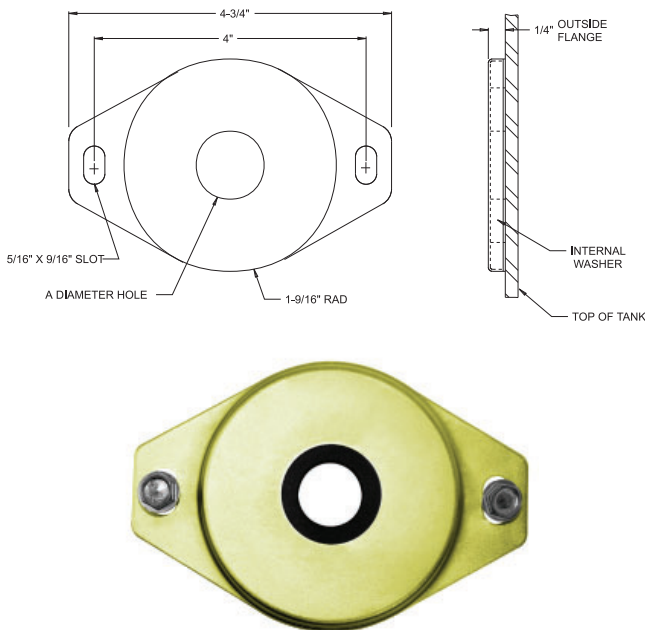
Suction/Return Flanges and Grommets are designed to seal pipe or tube lines when passing through the top plate of a hydraulic reservoir or similar applications. Suction Flanges also allow access for removal of a suction element for inspection without draining the reservoir.

### Standard Features:

- (1) Flange
- (1) Internal washer
- (2) 1/4-20 thread forming screws

### Standard Material:

- Zinc plated Carbon Steel



### Return Flanges for Pipe

Part No.	A Diameter Hole (inches)	Pipe Size (inches)
5110	1.19	1/2
5111	1.75	3/4
5112	1.75	1
5113	2.50	1 1/4
5114	2.50	1 1/2
5115	2.50	2

### Return Flanges for Tube

Part No.	A Diameter Hole (inches)	Tube Size OD (inches)
5772	1.19	3/8
5765	1.19	1/2
5766	1.19	5/8
5767	1.19	3/4
5768	1.75	1
5769	2.50	1 1/4
5770	2.50	1 1/2
5771	2.50	2

## RUBBER GROMMETS FOR RESERVOIR DOWNPIPES

### Standard Features:

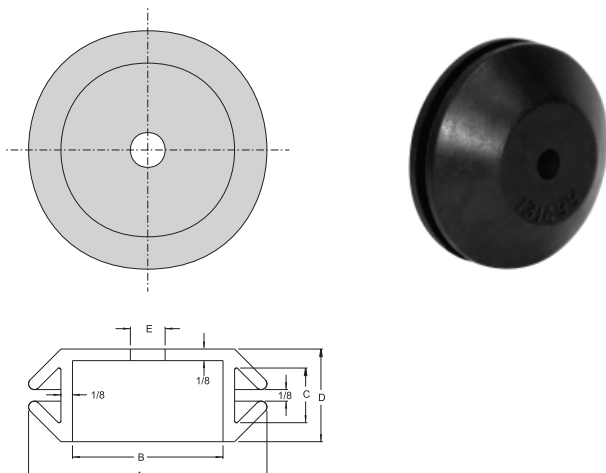
- Blank size with 'E' hole shall be furnished.
- Maximum O.D. limited to 'B' dimension

### Standard Material:

- Buna N rubber

### NOTE:

- Drill hole in tank top per cutout size "F"
- Snap in grommet



### Rubber Grommets for Reservoir Downpipes

Part No.	Dimensions (inches)					F Cutout Size
	A	B	C	D	E	
131499	1.88	.78	.62	1.00	.25	1.12
131599	2.38	1.20	.62	1.00	.25	1.44
131699	3.00	1.84	.62	1.00	.38	2.06
131799	3.50	2.41	.62	1.00	.50	2.62
131899	4.50	3.50	.69	1.19	.50	3.88

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# COUPLING GUARDS

## CG SERIES

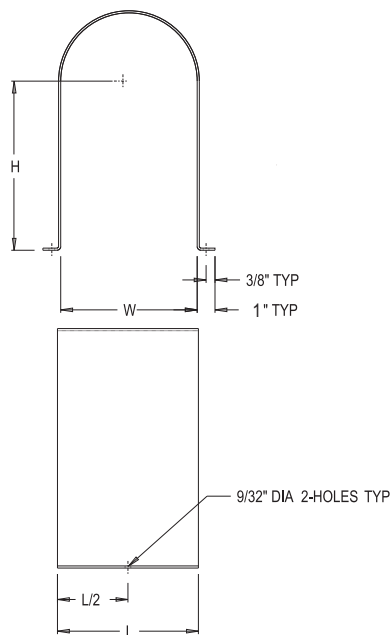
Coupling Guards are used to cover a rotating drive coupling assembly that's connecting shafts of an electric motor to a hydraulic pump.

### Standard Features:

- Foot mounting holes
- LDI gray primer

### Standard Material:

- Carbon Steel



Coupling Guards					
Motor Frame	Part No.	Dimensions (nominal)			Piece Weight (lbs)
		H (inches)	W (inches)	L (inches)	
143/145	<b>CG-145</b>	3.50	3.50	3.75	1.00
182/184	<b>CG-184</b>	4.50	4.00	4.25	1.25
213/215	<b>CG-215</b>	5.25	4.50	4.75	1.50
284/286	<b>CG-286</b>	7.00	5.50	5.75	2.50

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# CUSHION CLAMPS FOR PIPE & TUBE

## SINGLE AND SINGLE STACK CUSHION CLAMPS

Cushion Clamps assemblies are designed to resist crushing while absorbing shock and suppressing vibration and noise.

### Standard Features:

- Low temperature impact resistance
- Long life to temperature of 220°F (120° C)
- Remains stable in light acids, solvents, fuels, mineral oils, alcohol, paints, and salt water
- Single clamp sizes from 1/8 inch to 4 inch pipe and .25 inch to 4.5 inch tube/hose
- Stack/twin clamp sizes up to 2 inch pipe and up to 2.5 inch tube/hose

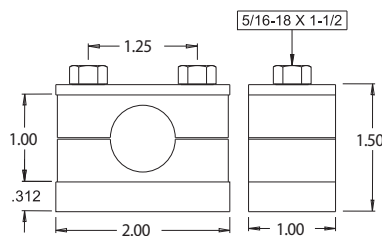
### Standard Materials:

- Cushions made of high impact copolymer
- Zinc plated steel hardware



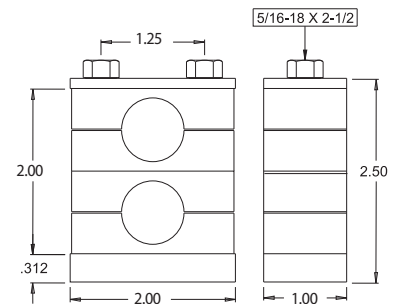
## SINGLE AND SINGLE STACK CLAMP SERIES A

## .125 thru .750 SERIES AA



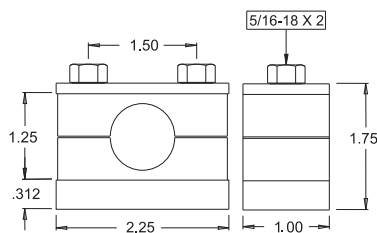
**NOTE:** All dimensions are inches

Series A and Series AA			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1/8	12P	.25	25T
1/4	25P	.50	50H
3/8	37P	.56	56H
		.62	62H
		.69	68H
		.75	75H



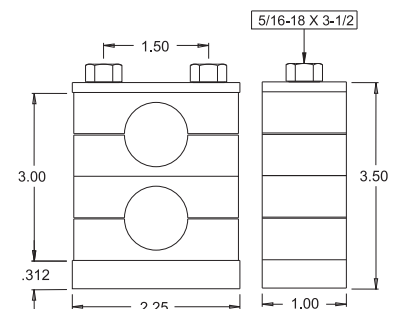
## SINGLE AND SINGLE STACK CLAMP SERIES B

## .500 thru 1.00 SERIES BB



**NOTE:** All dimensions are inches

Series B and Series BB			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1/2	50P	.81	81H
3/4	75P	.88	87H
		.94	93H
		1.00	100H



### How to Order

**Example:** single clamp A25TH  
single stack clamp BB100H100HH

Series Part Number H = All Hardware  
C = Cushion half

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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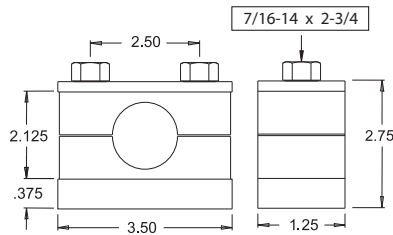
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# CUSHION CLAMPS FOR PIPE & TUBE

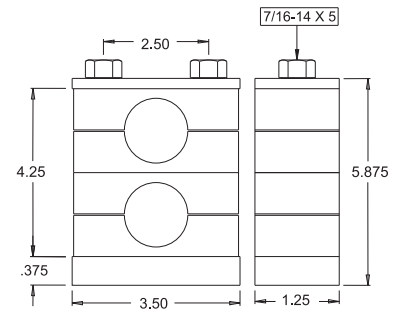
## SINGLE AND SINGLE STACK CLAMP SERIES C



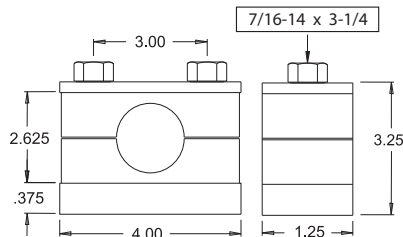
**NOTE:** All dimensions are inches

Series C and Series CC			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1	<b>100P</b>	1.06	<b>106H</b>
		1.12	<b>112H</b>
		1.19	<b>118H</b>
		1.25	<b>125H</b>
		1.31	<b>131H</b>
		1.38	<b>137H</b>
		1.44	<b>143H</b>
		1.50	<b>150H</b>

## 1.00 thru 1.50 SERIES CC



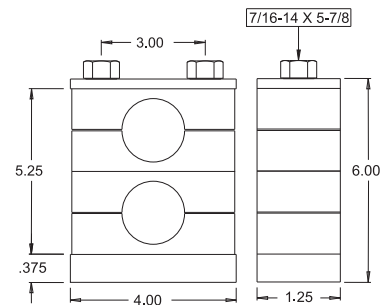
## SINGLE AND SINGLE STACK CLAMP SERIES D



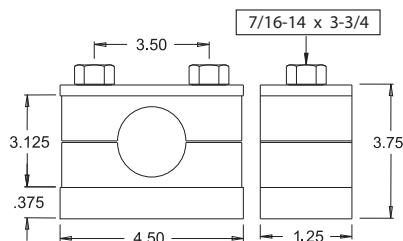
**NOTE:** All dimensions are inches

Series D and Series DD			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1 1/4	<b>125P</b>	1.56	<b>156H</b>
1 1/2	<b>150P</b>	1.62	<b>162H</b>
		1.69	<b>168H</b>
		1.75	<b>175H</b>
		1.81	<b>181H</b>
		1.88	<b>187H</b>
		1.94	<b>193H</b>
		2.00	<b>200H</b>

## 1.25 thru 2.00 SERIES DD



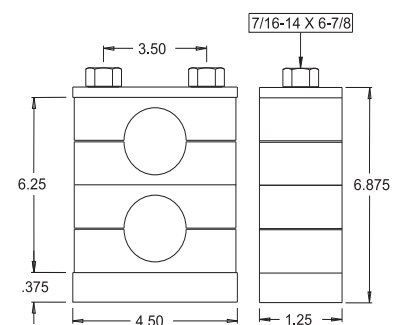
## SINGLE AND SINGLE STACK CLAMP SERIES E



**NOTE:** All dimensions are inches

Series E and Series EE			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
2	<b>200P</b>	2.06	<b>206H</b>
		2.12	<b>212H</b>
		2.19	<b>218H</b>
		2.25	<b>225H</b>
		2.31	<b>231H</b>
		2.38	<b>237H</b>
		2.44	<b>243H</b>
		2.50	<b>250H</b>

## 2.00 thru 2.50 SERIES EE



### How to Order

**Example:** single clamp D125PH  
single stack clamp EE225H250HH

Series Part Number H = All Hardware  
C = Cushion half

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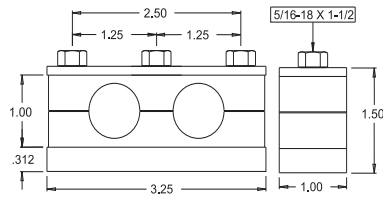
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Pg RA-32

# CUSHION CLAMPS FOR PIPE & TUBE

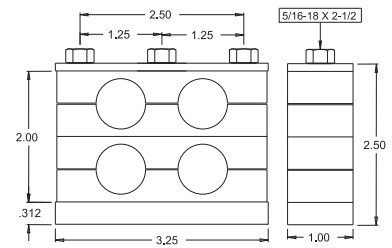
## TWIN AND TWIN STACK CLAMP SERIES F

## .125 thru .750 SERIES FF



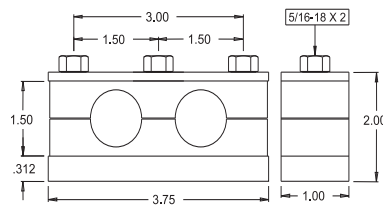
NOTE: All dimensions are inches

Series F and Series FF			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1/8 x 1/8	1212P	.25-.25	2525T
1/4 x 1/4	2525P	.50-.50	5050H
3/8 x 3/8	3737P	.56-.56	5656H
		.62-.62	6262H
		.69-.69	6868H
		.75-.75	7575H



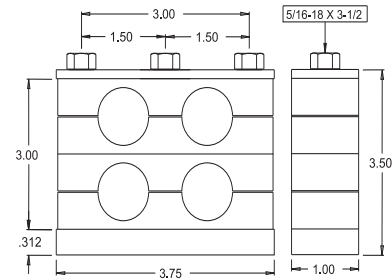
## TWIN AND TWIN STACK CLAMP SERIES G

## .500 thru 1.00 SERIES GG



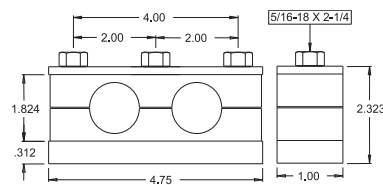
NOTE: All dimensions are inches

Series G and Series GG			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1/2 x 1/2	5050P	.81-.81	8181H
3/4 x 3/4	7575P	.88-.88	8787H
		.94-.94	9393H
		1.00-1.00	1010H



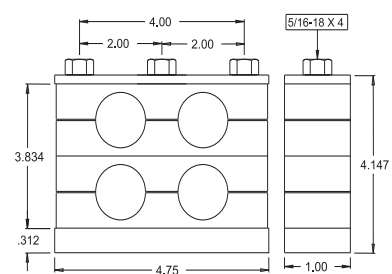
## TWIN AND TWIN STACK CLAMP SERIES L

## 1.00 thru 1.50 SERIES LL



NOTE: All dimensions are inches

Series L and Series LL			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1 x 1	1010P	1.06-1.06	106106H
		1.12-1.12	112112H
		1.19-1.19	118118H
		1.25-1.25	125125H
		1.31-1.31	131131H
		1.38-1.38	137137H
		1.44-1.44	143143H
		1.50-1.50	150150H



### How to Order

Example: twin clamp G7575PH  
twin stack clamp FF5050H2525TH

Series Part Number H = All Hardware  
C = Cushion half

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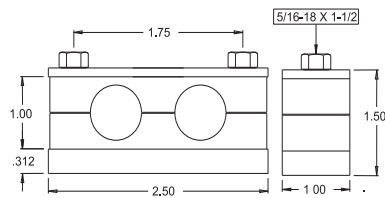
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Pg RA-33

# CUSHION CLAMPS FOR PIPE & TUBE

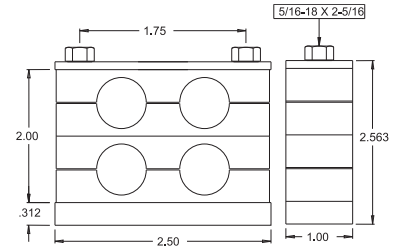
## MINI TWIN & MINI TWIN STACK CLAMP SERIES M

.125 thru 5.00  
SERIES MM



**NOTE:** All dimensions are inches

Series M and Series MM			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
1/8 x 1/8	1212P	.25-.25	2525T
1/4 x 1/4	2525P	.50-.50	5050T



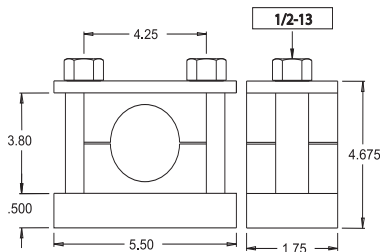
### How to Order

**Example:** mini twin clamp M5050TH  
mini twin stack clamp MM2525T5050TH

Series Part Number H = All Hardware  
C = Cushion half

## SINGLE CLAMP SERIES K

2.50 thru 3.00



Series K - 2.50 thru 3.00			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
2 1/2	250P	3.00	300T

### How to Order

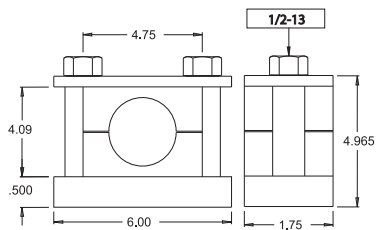
Example: K250PH

K  
Series Part Number H = All Hardware  
C = Cushion half

**NOTE:** All dimensions are inches

## SINGLE CLAMP SERIES K

3.00 thru 3.50



Series K - 3.00 thru 3.50			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
3.00	300P	3.50	300P

### How to Order

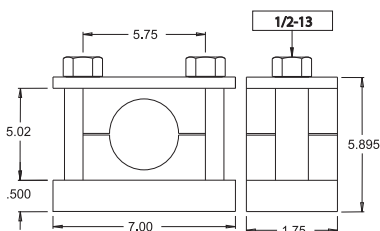
Example: K300PH

K  
Series Part Number H = All Hardware  
C = Cushion half

**NOTE:** All dimensions are inches

## SINGLE CLAMP SERIES K

4.00 thru 4.50



Series K - 4.00 thru 4.50			
Nominal Pipe Size	Part No.	Tube/Hose OD (inches)	Part No.
4.00	400P	4.00	400T
		4.50	400P

### How to Order

Example: K400PH

K  
Series Part Number H = All Hardware  
C = Cushion half

**NOTE:** All dimensions are inches

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - SPIDER PERFORMANCE DATA

Four types of elastomer designs and materials are offered to allow for flexibility in addressing specific application requirements.

### Standard Materials:

- SOX (NBR) Rubber (Black) - Nitrile Rubber
  - Considered the standard and most economical for jaw coupling spiders
  - Offers the best combination of temperature and chemical resistance, misalignment, and dampening ability
  - Only material suitable for reciprocating engine applications
  - 80A Shore Hardness except L035=60A
  - Temperature Range - 40° F to 212° F (-40° C to 100° C)
  - Resembles natural rubber in resilience and elasticity
  - Also applies to SXB Cushions
- Urethane (Blue)
  - Greater torque capability than NBR (1.5 times), provides less dampening effect and operates in a smaller temperature range
  - Good resistance to oil and chemicals
  - Not recommended for cyclic or start/stop applications
  - L050 to L110 Shore Hardness 55D, L150 to L225 Shore Hardness 90-95A
  - Temperature Range -30° F to 160° F (-34° C to 71° C)
- Hytrel (Tan)
  - Flexible elastomer designed for high torque and high temperature operations
  - Excellent resistance to oil and chemicals
  - Not recommended for cyclic or start/stop applications
  - 55D Shore Hardness
  - Temperature Range -60° F to 250° F (-51° C to 121° C)
- Bronze
  - Rigid, porous oil-impregnated metal insert exclusively for low speed (max 250 RPM) applications requiring high torque capabilities
  - Not affected by extreme temperatures, water, oil, or dirt
  - Temperature Range -40° F to 450° F (-40° C to 232° C)

### Standard Styles:

- Solid Center
  - Commonly used when shafts of the driver and driven equipment can be kept separate by a standard gap
- Open Center
  - Allows for the shafts of the driver and driven to be positioned within a short distance
  - Offer shaft positioning flexibility but have a lower RPM capacity (1,750 RPM Max for NBR, 3,600 Max for Urethane/Hytrel)
- Snap Wrap Flexible
  - Design allows for easy removal of the spider without moving the hubs
  - Allows for close shaft separation all the way up to the hubs maximum bore
  - Maximum RPM is 1,750 RPM with the retaining ring, but if used with the LC Type (with collar) the normal RPM rating of the coupling applies
  - Style is available in NBR and Urethane only, and in limited sizes
- Cushions
  - Used exclusively for the C Type couplings
  - Load cushions are held in place radially by a steel collar which is attached to one of the hubs



# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - SPIDERS & CUSHIONS



**Spiders f<sup>o</sup>r L Type Hubs**

Type	L035	L050	L070	L075	L090	L095	L099	L100	L110	L150	L190	L225	L276
SOX (NBR) (s <sup>o</sup> lid)	10118	10194	10406	10621	11070	11070	11494	11494	11724	12001	12274	12409	
SOX (NBR) (o <sup>o</sup> pen center)			10393	10620	10968	10968	11492	11492	11711	37880	37881	12406	12612
Urethane (s <sup>o</sup> lid)		37786	10395										
Urethane (o <sup>o</sup> pen center)			10411	10626	11075	11075	11499	11499	11729	12006	12280	12417	
Hytrel (s <sup>o</sup> lid)		25307							11717	11993	12265	12401	
Hytrel (o <sup>o</sup> pen center)			25308	25309	25310	25310	11486	11486	38097	38098	38099	12400	
Br <sup>o</sup> nze (o <sup>o</sup> pen center)		10498	10409	10624	11073	11073	11497	11497	11727	12004	12277	34517	25767
Sn <sup>a</sup> p Wr <sup>a</sup> p w/ring					24669	24669	24670	24670	24671	24672	24673		
Sn <sup>a</sup> p Wr <sup>a</sup> p w/o ring					11071	11071	11495	11495	11725	12002	12275		
Sn <sup>a</sup> p Wr <sup>a</sup> p Urethane (S <sup>o</sup> lid Ring)							41170	41170	41171		28284	26093	

**Spiders f<sup>o</sup>r AL Type Hubs**

Type	AL050	AL070	AL075	AL090	AL095	AL099	AL100	AL110	AL150
SOX (NBR) (s <sup>o</sup> lid)	10194	10406	10621	11070	11070	11494	11494	11724	18027
SOX (NBR) (o <sup>o</sup> pen center)		10393	10620	10968	10968	11492	11492	11711	
Urethane (s <sup>o</sup> lid)	37786	10395							
Urethane (o <sup>o</sup> pen center)		10411	10626	11075	11075	11499	11499	11729	
Hytrel (s <sup>o</sup> lid)	25307							11717	
Hytrel (o <sup>o</sup> pen center)		25308	25309	25310	25310	11486	11486	38097	
Br <sup>o</sup> nze (o <sup>o</sup> pen center)	10198	10409	10624	11073	11073	11497	11497	11727	
Sn <sup>a</sup> p Wr <sup>a</sup> p w/ring					24669	24669	24670	24671	
Sn <sup>a</sup> p Wr <sup>a</sup> p w/o ring					11071	11071	11495	11725	



**Cushions and Collars f<sup>o</sup>r C Type Hubs**

Size	→	C226	C276	C280	C285	C295	C2955
N <sup>o</sup> . of Cushions	→	6	6	6	6	6	10
SXB(NBR) cushion set		14547	14633	14712	14771	14805	14856
HYTREL cushion set		27529	14637	14716	14774	14808	14859
BRONZE cushion set		14545				51914	51915
COLLAR with hardware		40122	40123	40124	40292	40293	40293

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

07/15

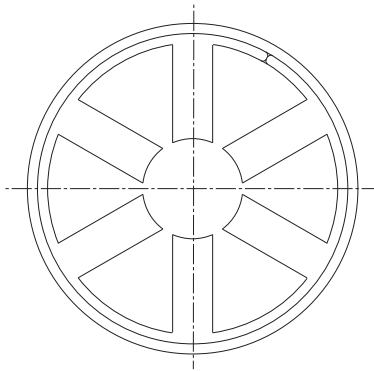
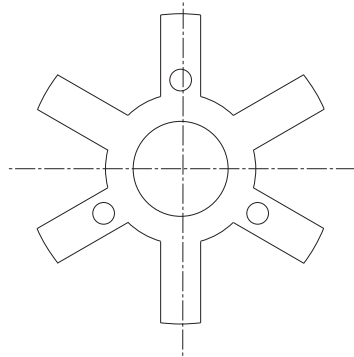
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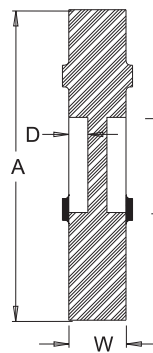
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# FLEXIBLE SHAFT COUPLINGS

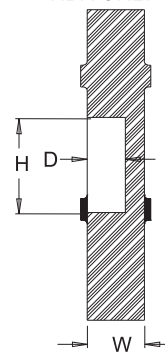
## FLEXIBLE JAW - SPIDERS & CUSHIONS DIMENSIONS



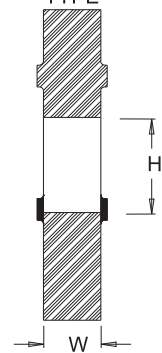
SOLID CENTER



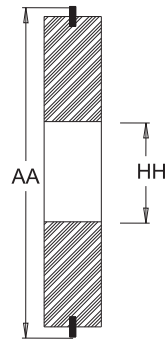
L095 & L225  
NBR ONLY



OPEN CENTER  
TYPE



SNAP WRAP



Solid Center Spiders						
Size	Material Available				Dimensions	
	SOX NBR	URE	HYT	BRZ	A	D H
L035	10118				.062	
L050	10194	37786	25307		1.06	
L070	10406				1.38	
L075	10621				1.75	
L090	11070				2.12	.18 .87
L095	11070				2.12	.18 .87
L099	11494				2.53	.25 1.03
L100	11494				2.53	.25 1.03
L110	11724		11717		3.31	NBR .25 HYT .18 1.18
L150	12001		11993		3.75	NBR .31 HYT .21 1.25
L190	12274		12265		4.50	NBR .31 HYT .18 1.38
L225	12409		12400		5.00	NBR .38 HYT .18 1.75
L276						

Open Center Spiders						
Size	Material Available				Dimensions	
	SOX NBR	URE	HYT	BRZ	A	H
L035						
L050				10498	1.06	.31
L070	10393	10395	25308	10409	1.38	.50
L075	10620	10626	25309	10624	1.75	.75
L090	10968	11075	25310	11073	2.12	.87
L095	10968	11075	25310	11073	2.12	.87
L099	11492	11499	11486	11497	2.53	1.03
L100	11492	11499	11486	11497	2.53	1.03
L110	11711	11729	38097	11727	3.31	1.18
L150	37880	12006	38098	12004	3.75	1.25
L190	37881	12280	38099	12274	4.50	1.38
L225	12406	12417	12401	34517	5.00	1.75
L276	12612		25767		6.18	1.75

Snap Wrap Spiders			
Size	SOX NBR	Dimens.	
		AA	HH
L035	N/A		
L050	N/A		
L070	N/A		
L075	N/A		
L090	24669	2.56	1.06
L095	24669	2.56	1.06
L099	24670	3.08	1.37
L100	24670	3.08	1.37
L110	24671	3.87	1.50
L150	24678	4.56	1.75
L190	24673	5.18	2.25
L225	URE	5.44	2.75
L276	N/A		

All	
Size	W
L035	.27
L050	.40
L070	.42
L075	.44
L090	.44
L095	.44
L099	.63
L100	.63
L110	.75
L150	.88
L190	.88
L225	.92
L276	1.50

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - L TYPE HUBS

The Flexible Jaw Coupling is the industry's largest variety of stock bore/keyway combinations. These couplings require no lubrication and provide highly reliable service for light, medium, and heavy duty electrical motor and internal combustion power transmission applications.

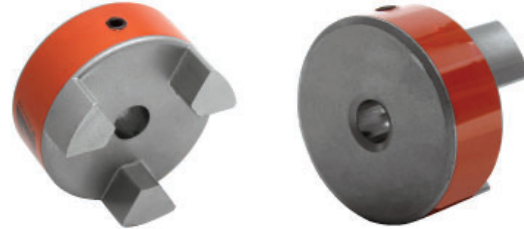
### Standard Features:

- Industry's standard shaft coupling
- Accommodates for angular and parallel shaft misalignment
- No metal to metal contact
- Keyed inch/metric
- Without keyway inch/metric
- Splined bore
- Resistant to oil, dirt, sand, moisture, and grease
- Max Bore: 2.875 inches / 70 mm
- Max Torque: 12,500 in-lbs (1412Nm)

### Standard Materials:

- Sintered Iron (L035 - L150)
- Cast Iron (L190-L276)

**NOTE:** A full L Type Coupling is comprised of two hubs and one elastomeric spider of the same size



L Type Inch Hubs Standard Bore and Keyway Chart Selection

Bore	Keyway	L035	L050	L070	L075	L090	L095	L099	L100	L110	L150	L190	L225	L276
1/8	N° KW	10124												
3/16	N° KW	10126												
1/4	N° KW	10127	10206	10416	10680	10766								
1/4	1/8 x 3/16				35744									
5/16	N° KW	10128	10207	10417	10681	26209								
3/8	N° KW	24687	10208	10418	10682	10767								
3/8	3/32 x 3/64		46121	41985	37234	37235								
3/8	1/8 x 3/16		44136	48829	35745	37236								
7/16	N° KW		10209	10419	10683	10768	11082	31297	11505					
7/16	3/32 x 3/64		44713	44007	28089	28877	27613	38198	37237					
7/16	1/8 x 3/16			44066	28875	28878	28879	38199	37238					
1/2	N° KW		10210	10420	10684	10769	11083	11333	11506					
1/2	1/8 x 3/16		10211	10421	10685	26087	26088	11334	26089					
9/16	N° KW		10212	52338	10686	24976	37239	11335	11508					
9/16	1/8 x 3/16		10213	10423	10687	28876	11084	38200	11509					
5/8	N° KW		10214	24771	44322	46052	41911	44174	44291	11733	12101			
5/8	5/32 x 5/64			51104	37240	37241	37242	38201	37243	37244	37245			
5/8	3/16 x 3/32			10424	10688	10771	11085	11336	11510	26211	26212			
11/16	3/16 x 3/32			10425	10689	10772	11086	11337	11511	11734	12102			
3/4	N° KW			46116	56140	54282	56887	11455	45212			12285	12422	
3/4	1/8 x 15/16			51719	35881	37246	37074	38202	37247	37248	37249	37250		
3/4	3/16 x 3/32			10426	10690	10773	11087	11338	11512	11735	12103	38468	35882	
13/16	3/16 x 3/32				10691	10774	11088	11339	11513	11736	12104	37252	37255	
7/8	N° KW				56941			59063						12582
7/8	3/16 x 3/32				10692	10775	11089	11340	11514	11737	12105	12286	12423	12585
7/8	1/4 x 1/8					38188	35747	38203	35686	35749	35750	37256	35753	54883
15/16	1/4 x 1/8					32332	11090	11341	11515	11738	12106	12287	12424	
1	3/16 x 3/32					37257	37258	38204	37259	37260	37261		37263	
1	1/4 x 1/8					31296	11091	11342	11516	11739	12107	12288	12425	12586
1 1/16	1/4 x 1/8						11092	11343	11517	11740	12108	12289	12426	
1 1/8	1/4 x 1/8						11093	11344	11518	11741	12109	12290	12427	12587
1 3/16	1/4 x 1/8							11345	11519	11742	12110	12291	12428	
1 1/4	1/4 x 1/8								11520	11743	12111	12292	12429	12588
1 1/4	5/16 x 5/32								35748	35752	35751	37264	35754	12589
1 5/16	5/16 x 5/32								11521	11744	12112	12293	26090	
1 3/8	5/16 x 5/32								11522	11745	12113	12294	12430	12590
1 3/8	3/8 x 3/16								44348	37265	37266	37267	37268	46758
1 7/16	3/8 x 3/16									11746	12114	12295	12431	12591
1 1/2	5/16 x 5/32									37269	37270	37271	37272	

**NOTE:** All finished bore hubs are provided with one set screw as standard. Non-standard bores available, consult engineering.

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# FLEXIBLE SHAFT COUPLINGS

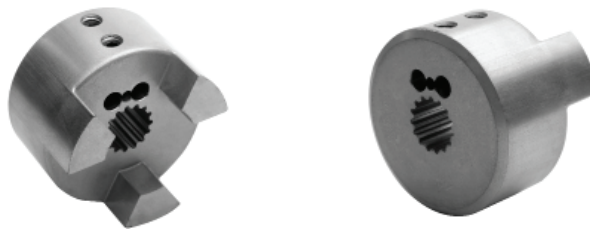
## FLEXIBLE JAW - L TYPE HUBS (CONT'D)



**L Type Inch Hubs Standard Bore and Keyway Chart Selection (cont'd)**

Bore	Keyway	L 035	L 050	L 070	L 075	L 090	L 095	L 099	L 100	L 110	L 150	L 190	L 225	L 276
1 1/2	3/8 x 3/16									11747	12115	12296	12432	12592
1 9/16	3/8 x 3/16									11748	12116	12297	12433	12593
1 5/8	3/8 x 3/16									11749	12117	12298	12434	12594
1 11/16	3/8 x 3/16										12118	12299	12435	12595
1 3/4	3/8 x 3/16										12119	12300	12436	12596
1 7/8	7/16 x 7/32										12120	12301	12437	12597
1 13/16	1/2 x 1/4										12121	12302	12438	12598
1 7/8	1/2 x 1/4											12303	12439	12599
1 15/16	1/2 x 1/4											12304	12440	12600
2	1/2 x 1/4											12305	12441	12601
2 1/16	1/2 x 1/4												12442	12602
2 1/8	1/2 x 1/4												12443	12603
2 3/16	1/2 x 1/4												12444	12604
2 1/4	1/2 x 1/4												12445	12605
2 3/8	5/8 x 5/16												12446	12606
2 5/8	5/8 x 5/16												12447	12607
2 7/8	3/4 x 3/8												12448	12608

**NOTE:** All finished bore hubs are provided with one set screw as standard. Non-standard bores available, consult engineering.



**L Type Hub Spline Bore Chart**

No. Teeth	Pitch	SAE	Shaft Diameters Major	Minor	Shaft Maj. Dia.	L 090	L 095	L 099	L 100	L 110	L 150	L 190	L 225	L 276
9	16/32	A	.651	.509	.625	38568	37900	38571	37904					
11	16/32		.776	.631	.750	38569	37901	38572	37905	37909	37917	37925		
13	16/32	B	.901	.754	.875	38570	37902	38573	37906	37910	37918	37926	37935	
13	8/16	D, E	1.798	1.506	1.750					37915	37923	37931	37940	38576
14	12/24	C	1.289	1.087	1.250					37912	37920	37928	37937	38577
15	16/32	BB	1.026	.877	1.000			38574	37907	37911	37919	37927	37936	38578
15	8/16	F	2.048	1.753	2.000							37933	37942	
21	16/32		1.401	1.250	1.375					37913	37921	37929	37938	
23	16/32		1.526	1.375	1.500					37914	37922	37930	37939	
27	16/32		1.776	1.625	1.750					37916	37924	37932	37941	38579

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - L TYPE HUBS (CONT'D)



**L Type Metric Hubs Standard Bore and Keyway Chart Selection (mm)**

Bore	Keyway	L035	L050	L070	L075	L090	L095	L099	L100	L110	L150	L190	L225	L276
4	Nº KW	41850												
5	Nº KW	47419	46214											
6	Nº KW	45872	50351											
7	Nº KW	60679	10215	58803										
8	Nº KW	55169	41460	46151		60945								
9	3 X 1,4		41313	56177	44298									
10	Nº KW		10216	41452	41456									
10	3 X 1,4		41450	49870	41457	52828								
11	4 X 1,8		41314	41453	50811		49424							
12	Nº KW		48510	51562		48276								
12	4 X 1,8		41315	41454	44153	44329	44832		55195					
14	Nº KW		58036	47505		41461	41465							
14	5 X 2,3		41316	41317	41321	51231	41466	60094	45101					
15	Nº KW		60708		10693		46561	52697	41469					
15	5 X 2,3		41451	41455	41458	52096	45778	46972	47123					
16	5 X 2,3		56176	41318	41322	49198	41325	52098	55534	52092	52471			
17	5 X 2,3			45333	49398		49704		56178	60067	60156			
18	6 X 2,8			59724	41884		46433	46626	44647	41926	44288			
19	Nº KW					10777				41471				
19	6 X 2,8			41319	41323	41462	41326	44157	41329	49700	48821	46717		
20	6 X 2,8				41459	41925	41467	47122	52093	41804	61218	61497		
22	6 X 2,8				58246	41968	44827	41959	44467	45214	44720			
24	8 X 3,3					41463	41327	41990	41330	48301	48182	59109		
25	8 X 3,3					41464	41468	45055	41470	41906	46751	52153		
28	Nº KW										56179	56182		
28	8 X 3,3						41328	50103	41331	41333	45679	52976		
30	8 X 3,3							47132	48317	45681	41738	44471	48982	
32	Nº KW										41472	41473	48319	56232
32	10 X 3,3								41332	41334	41873	45562	41849	41885
35	Nº KW										56180	56183	56184	
35	10 X 3,3								49925	45682	46562	58035	52197	
38	10 X 3,3									41335	41337	41474	49664	52961
40	12 X 3,3									45683	48318	48320	49605	59308
42	12 X 3,3									41336	41338	41475	47492	45609
45	14 X 3,8										45102	56017	52674	50292
48	Nº KW										56181	51995		
48	14 X 3,8										56227	48322	47569	61202
50	Nº KW											56228	56230	56233
50	14 X 3,8											44392	48797	45062
55	Nº KW											56229	56231	56234
55	16 X 4,3											47006	44089	56067
60	Nº KW												56185	56235
60	18 X 4,4												44598	56236
65	Nº KW												56185	56237
65	18 X 4,4												56544	50102
70	20 X 4,9													58268

**NOTE:** All finished bore hubs are provided with one set screw as standard. Non-standard bores available, consult engineering.

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - AL TYPE HUBS

The AL Type coupling is the lightweight version of the standard L Type coupling. These couplings require no lubrication and provide highly reliable service for light, medium and heavy duty electrical motor and internal combustion power transmission applications.

### Standard Features:

- Lightweight aluminum version of the industry standard shaft coupling
- Interchangeable with L and SS line of hubs (except AL150)
- Corrosion resistant (finished bores passivated for additional protection)
- Accommodates for angular and parallel shaft misalignment
- No metal to metal contact
- Keyed inch/metric
- Without keyway inch/metric
- Resistant to oil, dirt, sand, moisture, and grease
- Max Bore: 1.875 inches (48 mm)
- Max Torque: 2,268 in-lbs (256 Nm)

**NOTE:** A full AL Type Coupling is comprised of two AL hubs and one elastomeric spider of the same size

**AL Type Inch Hubs Standard Bore and Keyway Chart**

Bore	Keyway	AL 050	AL 070	AL 075	AL 090	AL 095	AL 099	AL 100	AL 110	AL 150
1/4	NØ KW	10252	10463	10630	10791					
5/16	NØ KW	10253	10464	10631	10792					
3/8	NØ KW	10254	10466	10632	10793					
7/16	NØ KW	10256	10469	10633	10794					
1/2	NØ KW	10257	10471	10634	10795	17847	17880	17914		
1/2	1/8 X 1/16	49706	10473	10635	10796	17848	17881	17915		
9/16	NØ KW			10637	10797			56473		
9/16	1/8 X 1/16			10638	44812	37994	44323	17917		
5/8	NØ KW	10259	10480	61817	44004				17977	18035
5/8	3/16 X 3/32		10482	10639	10798	17850	17882	17918	38888	44828
1 1/16	3/16 X 3/32			45227	10799	17851	45494	17919	44059	46642
3/4	1/8 X 1/16			47835	47725	46295				
3/4	3/16 X 3/32			10640	10800	17852	17883	17920	17978	18036
13/16	3/16 X 3/32			10641	10801	17853	17884	17921		
7/8	3/16 X 3/32			10642	10802	17854	17885	17922	17979	18037
15/16	1/4 X 1/8					17855	17886	17923	17980	18038
1	1/4 X 1/8					17856	17887	17924	17981	18039
1 1/16	1/4 X 1/8					17857	17888	17925	26094	18040
1 1/8	1/4 X 1/8					17858	17889	17926	17982	18041
1 3/16	1/4 X 1/8						17890	17927	17983	18042
1 1/4	1/4 X 1/8							17928	17984	18043
1 5/16	5/16 X 5/32							17929	17985	18044
1 3/8	5/16 X 5/32							17930	17986	18045
1 7/16	3/8 X 3/16							45508	17987	18046
1 1/2	3/8 X 3/16								17988	18047
1 9/16	3/8 X 3/16								17989	18048
1 5/8	3/8 X 3/16								17990	18049
1 11/16	3/8 X 3/16									18050
1 3/4	3/8 X 3/16									18051
1 13/16	1/2 X 1/4									18052
1 7/8	1/2 X 1/4									18053



**NOTE:** Reboing AL hubs is not recommended. All hubs are supplied standard with one set screw

# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - AL TYPE HUBS (CONT'D)

AL Type Metric Hubs Standard Bore and Keyway Chart (mm)										
Bore	Keyway	AL050	AL070	AL075	AL090	AL095	AL099	AL100	AL110	AL150
8	Nº KW			48973						
10	3 X 1,4			41924	56514					
11	4 X 1,8		65694	51098	58620					
12	4 X 1,8		56487	65655	60429					
14	5 X 2,3		65696	47302	58621	56800	58624			
15	5 X 2,3		62906	49633	58622	56801		49629		
16	5 X 2,3			52221		47014		45012		
17	5 X 2,3				60887	44712		59164		
19	6 X 2,8		65698	47427	44679	47012	58625	47253	59064	
20	Nº KW			56137						
20	6 X 2,8			59394		48327	49634	49630	49631	60878
22	6 X 2,8					47013				
24	8 X 3,3					45736	58626	44058	45690	64634
25	8 X 3,3						49709	55687	45933	64633
28	8 X 3,3					47105	58627	47393	45463	
30	8 X 3,3						52048	58266	49632	45063
32	10 X 3,3								54417	44347
35	10 X 3,3								46215	
36	10 X 3,3									51737
38	10 X 3,3								52692	58215
42	12 X 3,3									45404

**NOTE:** Reboring AL hubs is not recommended. All hubs are supplied standard with one set screw

# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW - C TYPE HUBS

The C Type Coupling offers greater torque and larger bore capacity (compared to L type). It is the industry's largest available selection from stock.

### Standard Features:

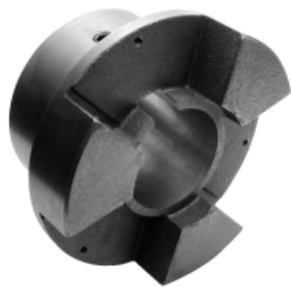
- Elastomeric cushions are radially removable
- Accommodates for angular and parallel shaft misalignment
- No metal to metal contact
- Resistant to oil, dirt, sand, moisture, and grease
- Max Bore: 4.000 inches (102mm)
- Max Torque: 37,800 in-lbs (4271 Nm)

### Standard Material:

- Cast Iron

**NOTE:** A full C Type Coupling is comprised of two standard C Type hubs, one cushion set, and one collar with hardware.

C Type Metric Hubs Standard Bore and Keyway (mm)							
Bore	Keyway	C226	C276	C280	C285	C295	C2955
30	8 X 3.3	62792					
35	10 X 3.3	60243	47386				
38	10 X 3.3	45348	62160				
40	12 X 3.3	49379	54037				
42	12 X 3.3		45219				
45	14 X 3.8	52550	44723	58265			
48	14 X 3.8	54288		52205			
55	16 X 4.3	58011	58444	49012			
60	18 X 4.4		47265	49378			
65	18 X 4.4		52008				58676
70	20 X 4.9		59032		56794	54355	58677
75	22 X 5.4					47813	58678
80	22 X 5.4				44487	58675	58679
90	25 X 5.4				54363		
95	25 X 5.4						62695



C Type Inch Hubs Standard Bore and Keyway							
Bore	Keyway	C226	C276	C280	C285	C295	C2955
7/8 RSB		40125	40126				
1 1/8	1/4 X 1/8	26036	26050				
1 1/4 RSB				26067	41036		
1 1/4	1/4 X 1/8	26037	26051	48988	47173		
1 3/8	5/16 X 5/32	26038	26052	46278	55546		
1 7/16	3/8 X 3/16	26039					
1 1/2 RSB						41037	
1 1/2	3/8 X 3/16	26040	26053	46277	48366	44824	
1 5/8	3/8 X 3/16	26041	26054	46194	41892	56078	
1 3/4 RSB							41038
1 3/4	3/8 X 3/16	26042	26055	44011	52311	45780	
1 7/8	1/2 X 1/4	26043	26056	44012	51533	47080	49075
2	1/2 X 1/4	26044	26057	48194			
2 1/8	1/2 X 1/4	26045	26058	44370	49809	44711	
2 1/4	1/2 X 1/4	26046	44547				
2 3/8	5/8 X 5/16	26047	26060	44014	47288	44825	52703
2 1/2	5/8 X 5/16	26048	46120	51998	56779	45249	48454
2 5/8	5/8 X 5/16		46755	44013		50145	54549
2 7/8	3/4 X 3/8		26064	51525	49456	52702	48108
3	3/4 X 3/8			48193			
3 3/8	7/8 X 7/16				47171	45402	49077
3 1/2	7/8 X 7/16				46844	52988	44545
3 5/8	7/8 X 7/16						50106
3 3/4	7/8 X 7/16						58378
3 7/8	1 X 1/2				48247		49351
4	1 X 1/2						55016

**Note:** RSB (Rough Stock Bore) hub has no keyway or set screw hole, it is not useable as shown and must be machined to proper bore tolerances. Hub includes inside sleeve and is drilled and tapped for collar bolts. Non-standard bores available, consult engineering

# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW COUPLINGS - PERFORMANCE DATA

Flexible Shaft Couplings - Performance Data									
Size	Elastomeric Member	Number of Jaws	Basic HP Ratings @ Varying RPM		Torque Rating		Bore		Maximum RPM 1000
			100	1800	in-lbs	Nm	inch	Nm	
L and AL TYPE									
L035	SOX (NBR)	2	.006	.10	3.5	.40	.375	9	31.0
L050/AL050	SOX (NBR)	2	.042	.75	26.3	2.97	.625	16	18.0
	Hytrel	2	.080	1.43	50.0	5.65	.625	16	18.0
L070/AL070	SOX (NBR)	2	.070	1.23	43.2	4.88	.750	19	14.0
	Hytrel	2	.180	3.26	114.0	12.88	.750	19	14.0
L075/AL075	SOX (NBR)	3	.140	2.57	90.0	10.17	.875	22	11.0
	Hytrel	3	.360	6.48	227.0	25.65	.875	22	11.0
L090/AL090	SOX (NBR)	3	.230	4.11	144.0	16.27	1.00	25	9.0
	Hytrel	3	.640	11.50	401.0	45.31	1.00	25	9.0
L095/AL095	SOX (NBR)	3	.310	5.50	194.0	21.92	1.12	28	9.0
	Hytrel	3	.890	16.00	561.0	63.38	1.12	28	9.0
L099/AL099	SOX (NBR)	3	.500	9.10	318.0	35.93	1.18	30	7.0
	Hytrel	3	1.260	22.60	792.0	89.48	1.18	30	7.0
L100/AL100	SOX (NBR)	3	.660	11.90	417.0	47.11	1.38	35	7.0
	Hytrel	3	1.800	32.40	1134.0	128.12	1.38	35	7.0
L110/AL110	SOX (NBR)	3	1.260	23.00	792.0	89.48	1.62	42	5.0
	Hytrel	3	3.600	65.00	2268.0	256.25	1.62	42	5.0
L150	SOX (NBR)	3	2.000	35.00	1240.0	140.10	1.88	48	5.0
	Hytrel	3	5.900	106.00	3708.0	418.95	1.88	48	5.0
AL150	SOX (NBR)	4	2.300	41.40	1450.0	163.63	1.88	48	5.0
L190	SOX (NBR)	3	2.700	49.00	1728.0	195.24	2.12	55	5.0
	Hytrel	3	7.400	134.00	4680.0	528.77	2.12	55	5.0
L225	SOX (NBR)	3	3.700	67.00	2340.0	264.38	2.62	65	4.2
	Hytrel	3	9.900	178.00	6228.0	703.67	2.62	65	4.2
L276	SOX (NBR)	3	7.500	135.00	4716.0	532.84	2.88	73	1.8
C TYPE									
C226	SXB (NBR)	3	4.700	85.00	2988.0	337.60	2.50	64	4.8
	Hytrel	3	9.400	170.00	5940.0	671.13	2.50	64	4.8
C276	SXB (NBR)	3	7.500	135.00	4716.0	532.84	2.88	73	4.2
	Hytrel	3	15.000	269.00	9432.0	1065.67	2.88	73	4.2
C280	SXB (NBR)	3	12.000	216.00	7560.0	254.17	3.00	76	3.5
	Hytrel	3	22.000	396.00	13866.0	1566.65	3.00	76	3.5
C285	SXB (NBR)	3	14.600	262.00	9182.0	1037.43	4.00	102	3.2
	Hytrel	3	26.000	476.00	16660.0	1882.33	4.00	102	3.2
C295	SXB (NBR)	3	18.000	324.00	11340.0	1281.25	3.50	89	2.3
	Hytrel	3	36.000	648.00	22680.0	2562.50	3.50	89	2.3
C2955	SXB (NBR)	5	30.000	540.00	18900.0	2135.42	4.00	102	2.3
	Hytrel	5	60.000	1080.00	37800.0	4270.83	4.00	102	2.3

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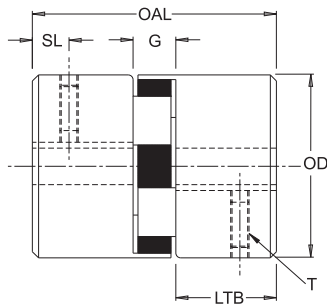


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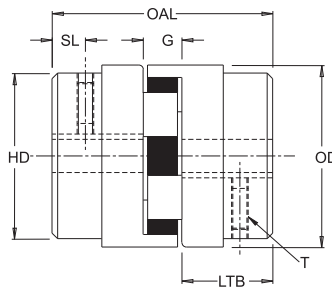
# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE JAW COUPLINGS - DIMENSIONAL DATA

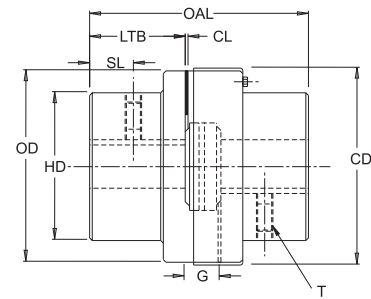
L TYPE STYLE 1



L TYPE STYLE 2



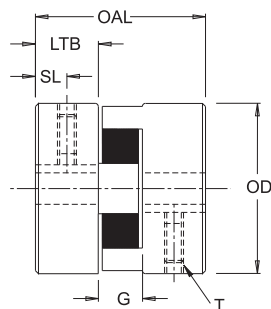
C TYPE STYLE 3



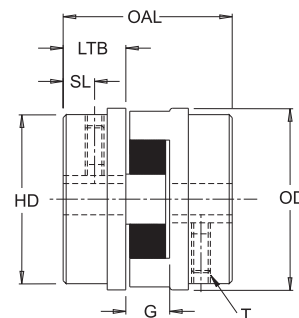
**L Type, C Type and AL Type Flexible Couplings Dimensional Data (inches)**

Part No.	Style Number	Bore		Outer Dia. OD	Overall Length OAL	Gap G	Length Thru Bore LTB	Hub Dia. HD	Clearance CL	Set Screw Location SL	Collar Dia. CD	Set Screw Size T	Weight (lbs)		Moment of Inert $WR^2$ in-lbs <sup>2</sup> (solid)
		Min	Max										Solid	Max Bore	
L035	1	.12	.38	.62	.81	.27	.27	.62	-	.13	-	#6-32	.10	.10	0.003
L050	1	.25	.62	1.08	1.72	.48	.62	1.08	-	.31	-	1/4-20	.30	.20	0.054
L070	1	.25	.75	1.36	2.00	.50	.75	1.36	-	.38	-	1/4-20	.60	.40	0.115
L075	1	.25	.88	1.75	2.12	.50	.81	1.75	-	.31	-	1/4-20	1.00	.80	0.388
L090	1	.25	1.00	2.11	2.12	.50	.81	2.11	-	.44	-	1/4-20	1.50	1.20	0.772
L095	1	.44	1.12	2.11	2.50	.50	1.00	2.11	-	.44	-	5/16-18	1.80	1.30	0.890
L099	1	.44	1.19	2.54	2.87	.75	1.06	2.54	-	.44	-	5/16-18	2.50	2.00	2.048
L100	1	.44	1.38	2.54	3.50	.75	1.37	2.54	-	.44	-	5/16-18	3.50	2.50	2.783
L110	1	.62	1.62	3.31	4.25	.87	1.69	3.31	-	.75	-	3/8-16	6.60	5.00	8.993
L150	1	.62	1.88	3.75	4.50	1.00	1.75	3.75	-	.75	-	3/8-16	9.10	7.00	11.477
L190	2	.75	2.12	4.50	4.88	1.00	1.94	4.00	-	.88	-	1/2-13	17.00	13.00	39.256
L225	2	.75	2.62	5.00	5.38	1.00	2.19	4.25	-	1.00	-	1/2-13	23.00	18.00	65.000
L276	2	.88	2.88	6.18	7.87	1.63	3.12	5.00	-	1.56	-	1/2-13	47.00	36.00	188.000
C226	3	.88	2.50	5.15	7.00	1.50	2.75	4.12	.12	1.38	5.50	1/2-13	29.00	22.00	74.000
C276	3	.88	2.88	6.18	7.87	1.63	3.12	5.00	.12	1.56	6.53	1/2-13	47.00	36.00	188.000
C280	3	1.25	3.00	7.50	7.87	1.63	3.12	5.50	.12	1.56	7.81	1/2-13	61.00	49.00	362.000
C285	3	1.25	4.00	8.50	9.13	1.63	3.75	6.50	.12	1.75	8.88	5/8-11	87.00	68.00	642.000
C295	3	1.50	3.50	9.12	9.38	1.88	3.75	6.31	.12	1.88	9.62	5/8-11	97.00	78.00	862.000
C2955	3	1.75	4.00	9.12	10.38	1.88	4.25	7.12	.12	2.12	9.62	5/8-11	117.00	90.00	392.000
AL050	4	.25	.62	1.08	1.72	.48	.56	1.08	-	.31	-	1/4-20	.20	.20	0.020
AL070	4	.25	.75	1.36	2.00	.50	.75	1.36	-	.38	-	1/4-20	.30	.20	0.040
AL075	5	.25	.88	1.75	2.12	.50	.81	1.53	-	.31	-	1/4-20	.40	.30	0.121
AL090	5	.50	.88	2.12	2.34	.52	.91	1.53	-	.34	-	1/4-20	.50	.40	0.271
AL095	4	.50	1.12	2.12	2.50	.50	1.00	2.12	-	.44	-	5/16-18	.80	.60	0.336
AL099	5	.50	1.19	2.53	2.81	.75	1.03	2.06	-	.44	-	5/16-18	1.00	.80	0.644
AL100	5	.50	1.38	2.53	3.50	.75	1.37	2.41	-	.44	-	5/16-18	1.50	1.10	1.207
AL110	4	.62	1.62	3.31	4.25	.87	1.69	3.31	-	.75	-	5/16-18	2.70	2.10	3.531
AL150	5	.62	1.88	4.25	4.50	1.00	1.75	3.19	-	.63	-	5/16-18	3.70	2.80	7.002

Hubs are standard with one set screw. AL150 has 2 set screws provided.



AL TYPE STYLE 4



AL TYPE STYLE 5

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# FLEXIBLE SHAFT COUPLINGS

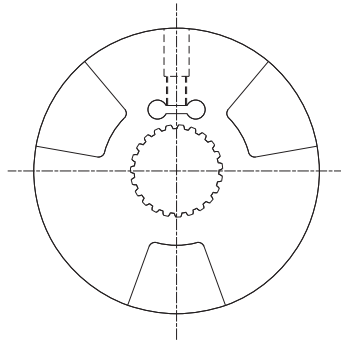
## FLEXIBLE JAW - SPLINED SHAFT INSTALLATION DATA

### Installation Instructions for Fluid Power Applications

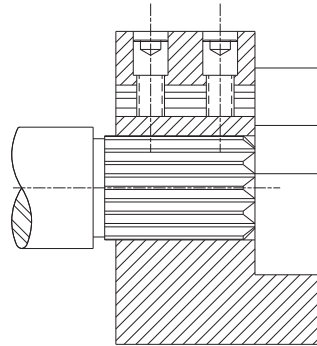
Spline bores furnished by LDI are provided with a special spline locking feature called Centaloc (see Figure 1)

Spline shafts: For optimum spline shaft life, LDI recommends full shaft engagement in the coupling hub (see Figure 2). Caution: If only partial spline shaft engagement is used, tightening of the special Centaloc spline locking feature set screw over the unused section of

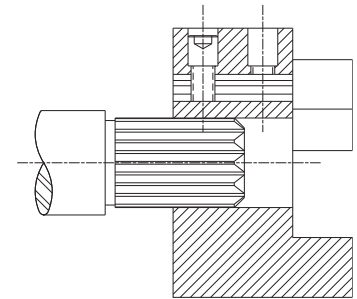
the spline bore will result in damage to the hub. Before tightening the Centaloc set screws, check to see if the spline shaft is engaged under the set screws. Then tighten the Centaloc set screws to the recommended torque shown below. If only one of the two Centaloc set screws is used because of limited shaft engagement, please remove the unused set screw (see Figure 3).



**Figure 1**  
Spline Bore with Centaloc  
spline locking feature



**Figure 2**  
Recommended for spline engagement  
with Centaloc locking feature



**Figure 3**  
Remove second Centaloc  
set screw if not used

### Flexible Couplings with splined shafts for Fluid Power Applications

Minimum Equipment Separation (inches)		
Coupling Size	G	Min-Shaft Separation <sup>†</sup>
L035	9/32	9/32
L050	15/32	1/8
L070	1/2	1/8
L075	1/2	1/8
L090	1/2	1/8
L095	1/2	1/8
L099	3/4	1/8
L100	3/4	1/8
L110	7/8	1/8
L150	1	1/8
L190	1	1/8
L225	1	1/8
L276	1 5/8	1/8
C226	1 1/2	1/8
C276	1 5/8	1/8
C280	1 5/8	1/8
C285	1 5/8	1/8

Spline Bore Centaloc Set Screw Torque		
Coupling Size	Set Screw Size UNC	Torque ft·lb
L090	5/16-18	13
L095	5/16-18	13
L099	5/16-18	13
L100	5/16-18	13
L110	3/8-16	23
L150	3/8-16	23
L190	5/8-11	100
L225	5/8-11	100
L276	*	*
C226	*	*
C280	*	*

\* Consult Engineering. Items shipped are marked with appropriate torque values

Straight Bore & Keyway Set Screw Torque		
Coupling Size	Set Screw Size	Torque ft·lb
L035	6-32	10
L050-L090	1/4-20	80
L095-L100	5/16-18	160
L110-L150	3/8-16	275
L190-L276	1/2-13	600
C225	1/2-13	600
C280	1/2-13	600
C285	5/8-11	1200

Misalignment Data		
Type of Spider	Angular	Parallel
SOX (NBR)	1°	.015
Hytrei	1/2°	.015
Urethane	1°	.015

NOTE: <sup>†</sup> indicates that the min. shaft separation is based on Open Center or Snap Wrap Spiders or Style 3 couplings

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# FLEXIBLE SHAFT COUPLINGS

## HOW TO SELECT A FLEXIBLE JAW COUPLING

The selection process for determining the proper jaw coupling size and elastomer requires using the charts shown on the following pages. There are three components to be selected, two hubs and one elastomer. When the shaft size of the driver and driver of the application are of the same diameter, the hubs selected will be the same. When shaft diameters differ, hubs selected will differ accordingly.

Information necessary before a coupling can be selected:  
HP (or KW) and RPM or Torque of driver  
Shaft sizes of driver and driven equipment and corresponding keyways  
Application description  
Environmental conditions (i.e. extreme temperature, corrosive conditions, space limitations)

List of charts provided for Selection

Chart 1 - Application Service Factors  
Chart 2 - Spider Performance Data  
Chart 3 - Coupling Nominal Rated Torque  
Formulas: Nominal Torque =  $\frac{(HP \times 63025)}{RPM}$  in-lb  
 $Nm = \frac{(KW \times 9550)}{RPM}$

Design Torque = Nominal Torque x Application Service Factor

### Steps in Selecting a Jaw Coupling

**Step 1:** Determine the Nominal Torque of your application by using the following formula:

$$\text{Nominal Torque} = \frac{(HP \times 63025)}{RPM} \text{ in-lb}$$
$$Nm = \frac{(KW \times 9550)}{RPM}$$

**Step 2:** Using the Application Service Factors Chart 1 select the service factor which best corresponds to your application.

**Step 3:** Calculate the Design Torque of your application by multiplying the Nominal Torque calculated in Step 1 by the application Service Factor determined in Step 2.  
Design Torque = Nominal Torque x Application Service Factor

**Step 4:** Using the Spider Performance Data Chart 2, select the elastomer material which best corresponds to your application.

**Step 5:** Using the coupling Nominal Rated Torque Chart 3, locate the appropriate elastomer material column for the elastomer selected in Step 4.

Scan down this column to the first entry where the Torque Value in the appropriate column is greater than or equal to the Design Torque calculated in Step 3.

Once this value is located, refer to the corresponding coupling size in the first column of the Coupling Nominal Rated Torque Chart 3.

Refer to the maximum RPM value for this elastomer torque capability to ensure that the application requirements are met. If the requirement is not satisfied at this point, another type of coupling may be required for the application. Please consult our engineers.

**Step 6:** Compare the application driver/driven shaft sizes to the maximum bore size available on the coupling selected. If coupling bore size is not large enough for the shaft diameter, select the next largest coupling that will accommodate the drive/driven shaft diameters. Refer to Chart 3.

**Step 7:** Using the item Number Selection Charts, find the appropriate Bore and keyway sizes required and locate the item number.

### Selection Example

A coupling is needed to connect a 20HP standard electric motor rated at 1800 RPM to a rotary pump. The shaft sizes of the electric motor (driver) is 2.0 inches and the pump (driven) is 1.75 inches. There are no special environmental conditions and the general operating temperature is normal room temperature, 72°F. Less than 1° of misalignment is expected.

**Step 1:** Determine =  $\frac{(HP \times 63025)}{RPM}$ orque:  
Nominal Torque =  $\frac{(20 \times 63025)}{1800}$   
= 700.28 in-lb

**Step 2:** Using the Application Service Factor Chart 1, select the service factor which best correspond's to your application. The application Service Factor for an electric motor with standard torque driving a rotary pump is 1.25. The value of 1.25 is found under the application category Pumps, Rotary, column: Electric Motor w/Standard Torque in Chart 1.

**Step 3:** Calcul. = Nominal Torque x Application Service Factor  
Design Torque = 700.28 x 1.25  
= 875.35 in-lb

**Step 4:** Using the Elastomer Performance Data Chart 2, select the elastomer material which best corresponds to your application. Since there are not special environmental conditions, the operating temperature is 72°F and less than 1° of angular misalignment is required, the NBR elastomer material is selected.

**Step 5:** Using the Coupling Nominal Rated Torque Chart 3, the NBR elastomer column is used to determine the proper coupling size. Scanning down the NBR column, the first entry to accommodate the Design Torque value of 875.35 in-lb is the size L150 with a nominal torque rating of 1,240 in-lb. Referring to the maximum RPM of 1800 on the electric motor of the application does not exceed the 5000 RPM maximum allowed for the L150 size coupling with an NBR elastomer.

**Step 6:** Compare the application driver/driven shaft size to the maximum bore available in the coupling selected. The electric motor (driver) of this application has a shaft size of 2.0 inches and the pump (driven) has a shaft size of 1.75 inches. The L150 coupling has a maximum bore less than the driver shaft size. Continuing down the Maximum Bore column, in Chart 3, the L190 size is found to have a maximum bore size 2.125 and is able to accommodate the driver/driven shaft sizes. Therefore the proper coupling size for the application is a L190 coupling with an NBR elastomer.

**Step 7:** Using the item number Selection charts, locate the appropriate item numbers. The L Type Coupling Elastomer Chart, and the L Type Coupling Inch Hubs Chart, provides easy reference to the item numbers.

Locate the L Type Coupling Inch Hubs Elastomer Chart.

The elastomer is selected by scanning down the type column and locating the NBR (Solid) entry. Read across to the L190 column and locate the item number 12274.

Locate the L Type coupling Inch Hubs selection chart.

The first bore size to be located is for the 2 inch shaft on the electric motor. Scan down the Bore/Keyway column to the 2 inch bore entry. Read across to the L190 column to locate item number of 12303.

The second bore size is located for the 1.75 inch shaft on the pump. Scan down the Bore/Keyway column to the 1 3/4 inch bore entry. Read across to the L190 column to locate the item number of 12299.

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# FLEXIBLE SHAFT COUPLINGS

Flexible Jaw Coupling - Chart 1

	Service Factors						Service Factors				
	Electric Motor w/ Standard Torque	Electric Motor w/ High Torque	Steam Turbines & Engines w/4 or more cyl.	Reciprocating Engines			Electric Motor w/ Standard Torque	Electric Motor w/ High Torque	Steam Turbines & Engines w/4 or more cyl.	Reciprocating Engines	
				1-Cyl	2-Cyl					1-Cyl	2-Cyl
Agitators	1.00	1.25	1.00	1.7	1.3	Machine Tools					
Band Resaw (lumber)	1.50	1.75	1.50	2.2	1.8	Punch Press-Gear Driven,					
Barge Haul Puller	2.00	2.25	2.00	2.7	2.3	Plate Planer	2.00	2.25	2.00	2.7	2.3
Beaters	1.50	1.75	1.50	2.2	1.8	Tapping Machinery, Bending Roll	2.00	2.25	2.00	2.7	2.3
Blowers						Main Drive	1.50	1.75	1.50	2.2	1.8
Centrifugal	1.00	1.25	1.00	1.7	1.3	Auxiliary Drives	1.00	1.25	1.00	1.7	1.3
Lobe, Vane	1.25	1.50	1.25	2.0	1.6	Metal Forming Machines					
Bottling Machinery	1.25	1.50	1.25	2.0	1.6	Draw Bench-carriage & Main Drive	2.00	2.25	2.00	2.7	2.3
Brew Kettles (distilling)	1.25	1.50	1.25	2.0	1.6	Extruder, Forming Machine,					
Can Filling Machinery	1.00	1.25	1.00	1.7	1.3	Wire Drawing	2.00	2.25	2.00	2.7	2.3
Car Dumpers	2.50	2.75	2.50	3.2	2.8	Table Conveyors	2.50	2.75	2.50	3.2	2.8
Car Pullers	1.50	1.75	1.50	2.2	1.8	Wire Winding, Coilers, Slitters	1.50	1.75	1.50	2.2	1.8
Card Machine	1.75	2.00	1.75	2.5	2.0	Mills, Rotary Type					
Chiller (oil)	1.50	2.00	1.25	2.0	2.0	Ball, Kilns, Pebble, Rolling, Tube	2.00	2.25	2.00	2.7	2.3
Compressors						Cement Kilns, Dryers, Coolers	2.00	2.25	2.00	2.7	2.3
Centrifugal	1.00	1.25	1.00	1.7	1.3	Tumbling	1.50	1.75	1.50	2.2	1.8
Screw, Lobe	1.25	1.50	1.25	2.0	1.6	Mixers					
Reciprocating			See Note			Concrete, continuous	1.75	2.00	1.75	2.5	2.0
Conveyors, Uniformly Fed						Muller	1.50	1.75	1.50	2.2	1.8
Assembly, Belt Screw	1.00	1.25	1.00	1.7	1.3	Paper Mills					
Bucket, Sawdust	1.25	1.50	1.25	2.0	1.6	Agitator (mixers), Reel, Winder	1.20	1.45	1.20	1.9	1.5
Live Roll, Shaker, Reciprocating	3.00	3.25	3.00	3.7	3.3	Winder	1.20	1.45	1.20	1.9	1.5
Conveyors, Not Uniformly Fed						Barker (mechanical), Log Haul					
Assembly, Belt, Oven, Screw	1.20	1.45	1.20	1.9	1.5	Chipper	2.00	2.25	2.00	2.7	2.3
Reciprocating	2.50	2.75	2.50	3.2	2.8	Barking Drum (spur gear)	2.50	2.75	2.50	3.2	2.8
Shaker	3.00	3.25	3.00	3.7	3.3	Beater, Pulper, Jordans, Dresses	2.00	2.25	2.00	2.7	2.3
Cookers-Brewing, Distilling						Calendars, Dryers, Washers,					
Food	1.25	1.50	1.25	2.0	1.6	Thickener	1.50	1.75	1.50	2.2	1.8
Cranes and Hoist	2.00	2.75	2.00	2.7	2.3	Converting Machines, Conveyors	1.20	1.45	1.20	1.9	1.5
Crushers-Cane (Sugar, Stone, or Ore)	3.00	3.25	3.00	3.7	3.3	Printing Presses	1.50	1.75	1.50	1.7	1.3
Dredges						Pug Mill	1.75	2.00	1.75	2.0	1.6
Cable Reels	2.00	2.25	2.00	2.7	2.3	Pumps					
Conveyors, Pumps						Centrifugal	1.00	1.25	1.00	1.7	1.3
Maneuvering Winches	1.50	1.75	1.50	2.2	1.8	Gear, Rotary, Vane	1.25	1.50	1.25	2.0	1.6
Cutter Head Drives	2.50	2.75	2.50	3.2	2.8	Reciprocating:					
Dynamometer	1.50	1.75	1.50	2.2	1.8	1-Cyl. Single or Double Acting	2.00	2.25	2.00	2.7	2.3
Evaporators	1.00	1.25	1.00	1.7	1.3	2-Cyl. Single Acting	2.00	2.25	2.00	2.7	2.3
Fans						2-Cyl. Double Acting	1.75	2.00	1.75	2.5	2.0
Centrifugal	1.00	1.25	1.00	1.7	1.3	3 or more Cyl.	1.50	1.75	1.50	2.2	1.8
Cooling Towers	2.00	2.25	2.00	2.7	2.3	Rubber Machinery					
Forced Draft, Propeller	1.50	1.75	1.50	2.2	1.8	Mixers	2.50	2.75	2.50	3.2	2.8
Induced Draft w/dampener control	2.00	2.25	2.00	2.7	2.3	Rubber Calendar	2.00	2.25	2.00	2.7	2.3
Induced Draft w/o damper control	1.25	1.50	1.25	2.0	1.6	Screens					
Feeders						Air washing, Water	1.00	1.25	1.00	1.7	1.3
Belt, Screw	1.00	1.25	1.00	1.7	1.3	Rotary-stone or gravel, Dewatering	1.50	1.75	1.50	2.2	1.8
Reciprocating	2.50	2.75	2.50	3.2	2.8	Vibrating	2.50	2.75	2.50	3.2	2.8
Filter, press-oil	1.50	1.75	1.50	2.2	1.8	Grizzly	2.00	2.25	2.00	2.7	2.3
Generators						Shredders	1.50	1.75	1.50	2.2	1.8
Not Welding	1.00	1.25	1.00	1.7	1.3	Steering Gears	1.00	1.25	1.00	1.7	1.3
Welding	2.00	2.25	2.00	2.7	2.3	Stokers	1.00	1.25	1.00	1.7	1.3
Hoist	1.50	1.75	1.50	2.2	1.8	Suction Roll (paper)	1.50	1.75	1.50	2.2	1.8
Hammermills	2.00	2.25	2.00	2.7	2.3	Textile Machinery					
Kilns	1.50	1.75	1.50	2.2	1.8	Dryers, Dyeing Machinery, Mangle	1.20	1.45	1.20	2.0	1.6
Laundry Washers-Reversing	2.00	2.25	2.00	2.7	2.3	Loom Spinner, Tenter Frames	1.50	1.75	1.50	2.2	1.8
Lumber Machinery						Tumbling Barrels	1.75	2.00	1.75	2.5	2.0
Barkers, Edger Feeder, Live Roll	2.00	2.25	2.00	2.7	2.3	Windlass	2.00	2.25	2.00	2.7	2.3
Planer, Slab Conveyor	2.00	2.25	2.00	2.7	2.3	Woodworking Machine	1.00	1.25	1.00	1.7	1.3

**NOTE:** Applications involving reciprocating engines and reciprocating driven devices are subject to critical rotational speeds which may damage the coupling and/or connected equipment. Contact engineering with specific requirements.

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# FLEXIBLE SHAFT COUPLINGS

**Flexible Jaw Coupling - Chart 2**

Characteristics	Temperature Range	Misalignment		Shore Hardness	Dampening Capacity	Chemical Resistance	Color
		Angular Degree	Parallel Inch				
<b>SOX(NBR) Rubber</b> - Nitrile Butadiene (Buna N) Rubber is a flexible elastomer material that is oil resistant resembles natural rubber in resilience and elasticity. Good resistance to oil. Standard elastomer. (Also applies to SXB Cushions.)	-40° to +212°F -40° to +100°C	1°	.015	80A	High	Good	Black
<b>URETHANE</b> - Urethane has greater torque capability than NBR (1.5 times) and provides less dampening effect. Good resistance to oil and chemicals	-30° to +160°F -34° to +71°C	1°	.015	55D L050-L095 40D L099-L225	Low	Very Good	Blue
<b>HYTREL</b> - Hytrel is a flexible elastomer designed for high torque and high temperature operations. Has an excellent resistance to oil and chemicals. Not recommended for cyclic or start/stop applications	-60° to +250°F -51° to +121°C	1/2°	.015	55D	Low	Excellent	Tan
<b>BRONZE</b> - Bronze is a rigid, porous oil-impregnated metal insert exclusively for slow speed (maximum 250 RPM) applications requiring high torque capabilities. Bronze operations are not affected by extreme temperatures, water, oil or dirt.	-40° to +450°F -40° to +232°C	1/2°	.010	-	None	Excellent	Bronze

**NOTE:** NBR standard shore hardness is 80A±5A-except L035=60A. Other softer or harder designs are available in NBR material, consult engineering

**Flexible Jaw Coupling - Chart 3**

Size	Maximum Bore		SOX (NBR) Torque		Spider Material		Hytrel Torque		Bronze Torque	
	inch	mm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm	in-lbs	Nm
L035	.375	9	3.5	0.4	N/A	N/A	N/A	N/A	N/A	N/A
L/AL050	.625	16	26.3	3.0	39	4.5	50	5.6	50	5.6
L/AL070	.750	19	43.2	4.9	65	7.3	114	12.9	114	12.9
L/AL075	.875	22	90.0	10.2	135	15.3	227	25.6	227	25.6
L/AL090	1.000	25	144.0	16.3	216	24.4	401	45.3	401	45.3
L/AL095	1.125	28	194.0	21.9	291	32.9	561	63.4	561	63.4
L/AL099	1.188	30	318.0	35.9	477	53.9	792	89.5	792	89.5
L/AL100	1.375	35	417.0	47.1	626	70.7	1134	128.0	1134	128.0
L/AL110	1.625	42	792.0	89.5	1188	134.0	2268	256.0	2268	256.0
L150	1.875	48	1240.0	140.0	1660	210.0	3708	419.0	3706	419.0
AL150	1.875	48	1450.0	163.8	N/A	N/A	N/A	N/A	N/A	N/A
L190	2.125	55	1726.0	195.0	2592	293.0	4680	529.0	4680	529.0
L225	2.625	65	2340.0	264.0	3510	397.0	6228	704.0	6228	704.0
L276	2.875	73	4716.0	533.0	N/A	N/A	N/A	N/A	N/A	N/A
C226	2.500	64	2988.0	338.0	N/A	N/A	5940	671.0	5940	671.0
C276	2.875	73	4716.0	533.0	N/A	N/A	9432	1066.0	N/A	N/A
C280	3.000	76	7560.0	854.0	N/A	N/A	13866	1567.0	N/A	N/A
C285	4.000	102	9182.0	1038.0	N/A	N/A	16680	1882.0	N/A	N/A
C295	3.500	89	11340.0	1281.0	N/A	N/A	22680	2563.0	22680	2563.0
C2955	4.000	102	18900.0	2136.0	N/A	N/A	37800	4271.0	37800	4271.0

**NOTE:** Bronze has a maximum RPM capability of 250 RPM. N/A indicates not available.

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE DRIVE COUPLINGS - GROMMETS

Grommets offer complete electrical insulation and eliminate contact between the Flexible Drive Couplings halves.

### Standard Features:

- P380 (Black)
  - Good for moderate cyclic loading
  - Offers good oil and chemical resistance, misalignment and dampening capacity.
  - Shore Hardness 38D
  - Temperature Range -30° F to 175° F (-34° C to 79° C)
- Hytrel (Blue)
  - Recommended for severe duty applications
  - Excellent oil and chemical resistance
  - Torisionally stiffer than P380
  - Shore Hardness 55D
  - Temperature Range -60° F to 250° F (-51° C to 121° C)



**Grommet Part Numbers**

Size	Type	
	P380	Hytrel
RC1	RG1-P9	RG1-H5
RC2	RG2-P9	RG2-H5
RC3	RG3-P9	RG3-H5
RC4	RG4-P9	RG4-H5
RC5	RG5-P9	RG5-H5
RC6	RG6-P9	RG6-H5
RC7	RG7-P9	RG7-H5
RC8	RG8-P9	RG8-H5

**Grommet Data**

Type	Temperature Range	Misalignment		Shore Hardness	Characteristics
		Angular	Parallel Inches		
P380	-30°F to 175°F	1°	.015	38D	Good for moderate cyclic loading, offers good oil and chemical resistance, misalignment and dampening capacity
Hytrel	-60°F to 250°F	0.5°	.015	55D	Recommended for severe duty applications, excellent oil and chemical resistance, torsionally stiffer than P380

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE DRIVE COUPLINGS

Flexible Drive Couplings are lighter than steel and cast iron couplings, which helps prolong bearing and seal life on pumps, gear boxes and motors. Our Couplings and Pump Motor Adapters work together to reduce vibration, heat, noise and wear and tear.

### Standard Features:

- Made from Lightweight Aluminum
- Machined with tight tolerances to help eliminate vibration and noise
- Alignment can easily be made with a straight edge and a feeler gage
- Double set screws are standard which creates a more secure fit from coupling to shaft
- Max Bore 3.875 (60 mm)
- Max Torque 47,269 in-lbs

### Styles Available:

- Standard Bore and Key
- Metric Bore and Key
- Steel Set Screw (Style SS)
- Steel Clamp (Style SC)
- Set Screw (Style AS)
- Clamp (Style AC)



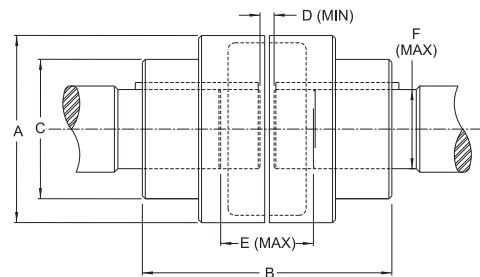
**Flexible Drive C<sup>o</sup>upling Data<sup>a</sup>**

Size	Maximum Bore (inches)	Dimensions (inches)			Distance Between Shafts (inches)		HP Torque in-lbs	Rated HP at			Inertia <sup>a</sup>	
		A	B	C	D (min)	E (max)		100 RPM	1200 RPM	1800 RPM	ft-lb	Gr <sup>o</sup> mmet
RC1	1.12	2.62	2.56	2.12	.06	0.75	473	0.75	9	13.5	0.005	p380
RC1	1.12	2.62	2.56	2.12	.06	0.75	630	1	12	18	0.005	Hytrel
RC2	1.38	2.91	3.17	2.31	.06	0.88	630	1	12	18	0.009	p380
RC2	1.38	2.91	3.17	2.31	.06	0.88	1103	1.75	21	31.5	0.009	Hytrel
RC3	1.62	3.44	3.60	2.97	.06	0.88	1261	2	24	36	0.022	p380
RC3	1.62	3.44	3.60	2.97	.06	0.88	2206	3.5	42	63	0.022	Hytrel
RC4	1.88	4.00	4.24	3.12	.06	1.12	1576	2.5	30	45	0.039	p380
RC4	1.88	4.00	4.24	3.12	.06	1.12	3309	5.25	63	94.5	0.039	Hytrel
RC5	2.38	4.81	4.68	4.06	.06	1.25	3466	5.5	66	99	0.100	p380
RC5	2.38	4.81	4.68	4.06	.06	1.25	6933	11	132	198	0.100	Hytrel
RC6	2.62	5.97	6.04	4.56	.06	1.38	7563	12	144	216	0.260	p380
RC6	2.62	5.97	6.04	4.56	.06	1.38	15756	25	300	450	0.260	Hytrel
RC7	2.88	6.91	7.01	5.25	.06	1.88	12605	20	240	360	0.480	p380
RC7	2.88	6.91	7.01	5.25	.06	1.88	28361	45	540	810	0.480	Hytrel
RC8	3.88	8.62	7.92	7.12	.06	2.00	31513	50	600	900	1.560	p380
RC8	3.88	8.62	7.92	7.12	.06	2.00	47269	75	900	1350	1.560	Hytrel

**Spline C<sup>o</sup>upling Data<sup>a</sup>\***

Spline Specifications			
Number of Teeth	Pitch	SAE	C <sup>o</sup> upling Sizes
9	16/32	A, AA	RC1-RC5
13	8/16	D, E	RC4-RC8
13	16/32	B	RC1-RC6
14	12/24	C	RC2-RC8
15	8/16	F	RC4-RC8
15	16/32	BB	RC1-RC6
17	12/24	CC	RC3-RC8
21	16/32	—	RC3-RC8
23	16/32	—	RC3-RC8
27	16/32	—	RC4-RC8

\* All splines are SAE 30° PA, flat root, side fit



**N<sup>o</sup>min<sup>a</sup>l B<sup>o</sup>re Diameter**

From	To (including)	Tolerance
.375	1.000	+.0008/+.0003
1.000	2.000	+.0013/+.0005
2.000	3.000	+.0018/+.0008
3.000	3.875	+.0020/+.0010

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE DRIVE COUPLINGS - STANDARD BORE AND KEY



Flexible Drive C<sup>o</sup>uplings - St<sup>a</sup>nd<sup>a</sup>rd B<sup>o</sup>re and Key

B <sup>o</sup> re	Key	C <sup>o</sup> upling P <sup>a</sup> rt N <sup>u</sup> mers							
		RC <sup>1</sup>	RC <sup>2</sup>	RC <sup>3</sup>	RC <sup>4</sup>	RC <sup>5</sup>	RC <sup>6</sup>	RC <sup>7</sup>	RC <sup>8</sup>
3/8	3/32	RC1-.0375-.094	RC2-.0375-.094						
7/16	3/32	RC1-.0437-.094	RC2-.0437-.094						
7/16	1/8	RC1-.0437-.125	RC2-.0437-.125						
1/2	1/8	RC1-.0500-.125	RC2-.0500-.125	RC3-.0500-.125					
9/16	1/8	RC1-.0562-.125	RC2-.0562-.125	RC3-.0562-.125					
5/8	5/32	RC1-.0625-.156	RC2-.0625-.156	RC3-.0625-.156					
5/8	3/16	RC1-.0625-.187	RC2-.0625-.187	RC3-.0625-.187	RC4-.0625-.187				
11/16	3/16	RC1-.0687-.187	RC2-.0687-.187	RC3-.0687-.187	RC4-.0687-.187				
3/4	1/8	RC1-.0750-.125	RC2-.0750-.125	RC3-.0750-.125	RC4-.0750-.125				
3/4	3/16	RC1-.0750-.187	RC2-.0750-.187	RC3-.0750-.187	RC4-.0750-.187	RC5-.0750-.187	RC6-.0750-.187		
7/8	3/16	RC1-.0875-.187	RC2-.0875-.187	RC3-.0875-.187	RC4-.0875-.187	RC5-.0875-.187	RC6-.0875-.187		
7/8	1/4	RC1-.0875-.250	RC2-.0875-.250	RC3-.0875-.250	RC4-.0875-.250	RC5-.0875-.250	RC6-.0875-.250		
15/16	1/4	RC1-.0937-.250	RC2-.0937-.250	RC3-.0937-.250	RC4-.0937-.250	RC5-.0937-.250	RC6-.0937-.250		
1	3/16	RC1-.1000-.187	RC2-.1000-.187	RC3-.1000-.187	RC4-.1000-.187	RC5-.1000-.187	RC6-.1000-.187		
1	1/4	RC1-.1000-.250	RC2-.1000-.250	RC3-.1000-.250	RC4-.1000-.250	RC5-.1000-.250	RC6-.1000-.250		
1 1/8	1/4	RC1-.1125-.250	RC2-.1125-.250	RC3-.1125-.250	RC4-.1125-.250	RC5-.1125-.250	RC6-.1125-.250	RC7-.1125-.250	
1 3/16	1/4		RC2-.1187-.250	RC3-.1187-.250	RC4-.1187-.250	RC5-.1187-.250	RC6-.1187-.250	RC7-.1187-.250	
1 1/4	1/4		RC2-.1250-.250	RC3-.1250-.250	RC4-.1250-.250	RC5-.1250-.250	RC6-.1250-.250	RC7-.1250-.250	RC8-.1250-.250
1 1/4	5/16		RC2-.1250-.312	RC3-.1250-.312	RC4-.1250-.312	RC5-.1250-.312	RC6-.1250-.312	RC7-.1250-.312	RC8-.1250-.312
1 3/8	5/16		RC2-.1375-.312	RC3-.1375-.312	RC4-.1375-.312	RC5-.1375-.312	RC6-.1375-.312	RC7-.1375-.312	RC8-.1375-.312
1 3/8	3/8		RC2-.1375-.375	RC3-.1375-.375	RC4-.1375-.375	RC5-.1375-.375	RC6-.1375-.375	RC7-.1375-.375	RC8-.1375-.375
1 7/16	3/8			RC3-.1437-.375	RC4-.1437-.375	RC5-.1437-.375	RC6-.1437-.375	RC7-.1437-.375	RC8-.1437-.375
1 1/2	5/16			RC3-.1500-.312	RC4-.1500-.312	RC5-.1500-.312	RC6-.1500-.312	RC7-.1500-.312	RC8-.1500-.312
1 1/2	3/8			RC3-.1500-.375	RC4-.1500-.375	RC5-.1500-.375	RC6-.1500-.375	RC7-.1500-.375	RC8-.1500-.375
1 5/8	3/8			RC3-.1625-.375	RC4-.1625-.375	RC5-.1625-.375	RC6-.1625-.375	RC7-.1625-.375	RC8-.1625-.375
1 3/4	3/8				RC4-.1750-.375	RC5-.1750-.375	RC6-.1750-.375	RC7-.1750-.375	RC8-.1750-.375
1 3/4	7/16				RC4-.1750-.437	RC5-.1750-.437	RC6-.1750-.437	RC7-.1750-.437	RC8-.1750-.437
1 7/8	1/2				RC4-.1875-.500	RC5-.1875-.500	RC6-.1875-.500	RC7-.1875-.500	RC8-.1875-.500
1 15/16	1/2					RC5-.1937-.500	RC6-.1937-.500	RC7-.1937-.500	RC8-.1937-.500
2	1/2					RC5-.2000-.500	RC6-.2000-.500	RC7-.2000-.500	RC8-.2000-.500
2 1/8	1/2					RC5-.2125-.500	RC6-.2125-.500	RC7-.2125-.500	RC8-.2125-.500
2 1/4	1/2					RC5-.2250-.500	RC6-.2250-.500	RC7-.2250-.500	RC8-.2250-.500
2 3/8	5/8					RC5-.2375-.625	RC6-.2375-.625	RC7-.2375-.625	RC8-.2375-.625
2 1/2	5/8						RC6-.2500-.625	RC7-.2500-.625	RC8-.2500-.625
2 5/8	5/8						RC6-.2625-.625	RC7-.2625-.625	RC8-.2625-.625
2 3/4	5/8							RC7-.2750-.625	RC8-.2750-.625
2 7/8	3/4							RC7-.2875-.750	RC8-.2875-.750
3	3/4								RC8-.3000-.750
3 1/4	3/4								RC8-.3250-.750
3 3/8	7/8								RC8-.3375-.875
3 1/2	7/8								RC8-.3500-.875
3 5/8	7/8								RC8-.3625-.875
3 3/4	7/8								RC8-.3750-.875
3 7/8	1								RC8-.3875-.100

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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE DRIVE COUPLINGS - METRIC BORE AND KEY



**Flexible Drive Couplings - Metric Bore and Key Chart**

B <sup>ore</sup>	Key	Coupling Part Numbers							
		RC <sup>1</sup>	RC <sup>2</sup>	RC <sup>3</sup>	RC <sup>4</sup>	RC <sup>5</sup>	RC <sup>6</sup>	RC <sup>7</sup>	RC <sup>8</sup>
19	6	RC1-M019-06	RC2-M019-06	RC3-M019-06	RC4-M019-06	RC5-M019-06			
20	6	RC1-M020-06	RC2-M020-06	RC3-M020-06	RC4-M020-06	RC5-M020-06	RC6-M020-06		
24	8	RC1-M024-08	RC2-M024-08	RC3-M024-08	RC4-M024-08	RC5-M024-08	RC6-M024-08		
25	8	RC1-M025-08	RC2-M025-08	RC3-M025-08	RC4-M025-08	RC5-M025-08	RC6-M025-08	RC7-M025-08	
28	8	RC1-M028-08	RC2-M028-08	RC3-M028-08	RC4-M028-08	RC5-M028-08	RC6-M028-08	RC7-M028-08	
30	8		RC2-M030-08	RC3-M030-08	RC4-M030-08	RC5-M030-08	RC6-M030-08	RC7-M030-08	
32	10		RC2-M032-10	RC3-M032-10	RC4-M032-10	RC5-M032-10	RC6-M032-10	RC7-M032-10	
35	10			RC3-M035-10	RC4-M035-10	RC5-M035-10	RC6-M035-10	RC7-M035-10	
38	10			RC3-M038-10	RC4-M038-10	RC5-M038-10	RC6-M038-10	RC7-M038-10	
40	12				RC4-M040-12	RC5-M040-12	RC6-M040-12	RC7-M040-12	RC8-M040-12
42	12				RC4-M042-12	RC5-M042-12	RC6-M042-12	RC7-M042-12	RC8-M042-12
45	14				RC4-M045-14	RC5-M045-14	RC6-M045-14	RC7-M045-14	RC8-M045-14
50	14					RC5-M050-14	RC6-M050-14	RC7-M050-14	RC8-M050-14
60	18						RC6-M060-18	RC7-M060-18	RC8-M060-18

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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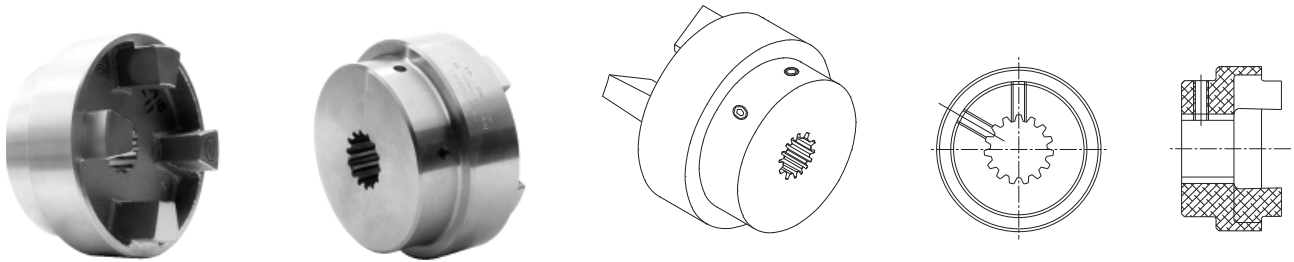
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# FLEXIBLE SHAFT COUPLINGS

## FLEXIBLE DRIVE COUPLINGS - SET SCREW TYPE STYLE AS

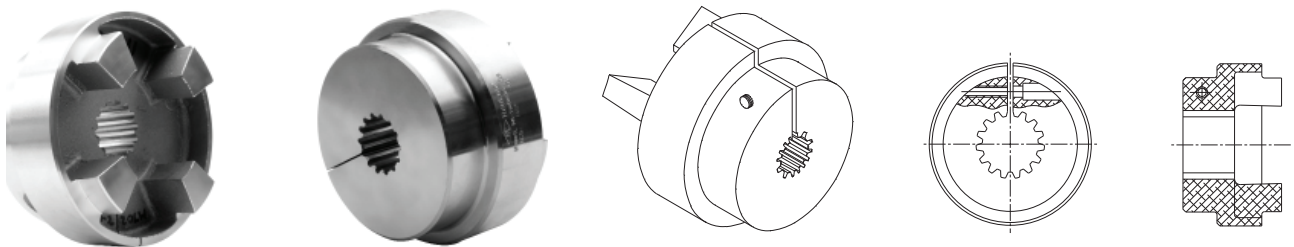


**Style AS - Spline Part Numbers**

Nº. of Teeth	Pitch	SAE	RC <sup>1</sup>	RC <sup>2</sup>	RC <sup>3</sup>	RC <sup>4</sup>	RC <sup>5</sup>	RC <sup>6</sup>	RC <sup>7</sup>	RC <sup>8</sup>
9	16/32	A, AA	RC1-0916-AS	RC2-0916-AS	RC3-0916-AS	RC4-0916-AS	RC5-0916-AS	-	-	-
13	8/16	D, E	-	-	-	RC4-1308-AS	RC5-1308-AS	RC6-1308-AS	RC7-1308-AS	RC8-1308-AS
13	16/32	B	RC1-1316-AS	RC2-1316-AS	RC3-1316-AS	RC4-1316-AS	RC5-1316-AS	RC6-1316-AS	-	-
14	12/24	C	-	RC2-1412-AS	RC3-1412-AS	RC4-1412-AS	RC5-1412-AS	RC6-1412-AS	RC7-1412-AS	RC8-1412-AS
15	8/16	F	-	-	-	RC4-1508-AS	RC5-1508-AS	RC6-1508-AS	RC7-1508-AS	RC8-1508-AS
15	16/32	BB	RC1-1516-AS	RC2-1516-AS	RC3-1516-AS	RC4-1516-AS	RC5-1516-AS	RC6-1516-AS	-	-
17	12/24	CC	-	-	RC3-1712-AS	RC4-1712-AS	RC5-1712-AS	RC6-1712-AS	RC7-1712-AS	RC8-1712-AS
21	16/32	-	-	-	RC3-2116-AS	RC4-2116-AS	RC5-2116-AS	RC6-2116-AS	RC7-2116-AS	RC8-2116-AS
23	16/32	-	-	-	RC3-2316-AS	RC4-2316-AS	RC5-2316-AS	RC6-2316-AS	RC7-2316-AS	RC8-2316-AS
27	16/32	-	-	-	-	RC4-2716-AS	RC5-2716-AS	RC6-2716-AS	RC7-2716-AS	RC8-2716-AS

All Splines are SAE 30° PA, Flat Root, Side Fit

## FLEXIBLE DRIVE COUPLINGS - CLAMP TYPE STYLE AC



**Style AC - Spline Part Numbers**

Nº. of Teeth	Pitch	SAE	RC <sup>1</sup>	RC <sup>2</sup>	RC <sup>3</sup>	RC <sup>4</sup>	RC <sup>5</sup>	RC <sup>6</sup>	RC <sup>7</sup>	RC <sup>8</sup>
9	16/32	A, AA	RC1-0916-AC	RC2-0916-AC	RC3-0916-AC	RC4-0916-AC	RC5-0916-AC	-	-	-
13	8/16	D, E	-	-	-	RC4-1308-AC	RC5-1308-AC	RC6-1308-AC	RC7-1308-AC	RC8-1308-AC
13	16/32	B	RC1-1316-AC	RC2-1316-AC	RC3-1316-AC	RC4-1316-AC	RC5-1316-AC	RC6-1316-AC	-	-
14	12/24	C	-	RC2-1412-AC	RC3-1412-AC	RC4-1412-AC	RC5-1412-AC	RC6-1412-AC	RC7-1412-AC	RC8-1412-AC
15	8/16	F	-	-	-	RC4-1508-AC	RC5-1508-AC	RC6-1508-AC	RC7-1508-AC	RC8-1508-AC
15	16/32	BB	RC1-1516-AC	RC2-1516-AC	RC3-1516-AC	RC4-1516-AC	RC5-1516-AC	RC6-1516-AC	-	-
17	12/24	CC	-	-	RC3-1712-AC	RC4-1712-AC	RC5-1712-AC	RC6-1712-AC	RC7-1712-AC	RC8-1712-AC
21	16/32	-	-	-	RC3-2116-AC	RC4-2116-AC	RC5-2116-AC	RC6-2116-AC	RC7-2116-AC	RC8-2116-AC
23	16/32	-	-	-	RC3-2316-AC	RC4-2316-AC	RC5-2316-AC	RC6-2316-AC	RC7-2316-AC	RC8-2316-AC
27	16/32	-	-	-	-	RC4-2716-AC	RC5-2716-AC	RC6-2716-AC	RC7-2716-AC	RC8-2716-AC

All Splines are SAE 30° PA, Flat Root, Side Fit

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# FLEXIBLE SHAFT COUPLINGS

## HOW TO SELECT A FLEXIBLE DRIVE COUPLING

Just because applications have the same horsepower doesn't mean they require the same size flexible couplings. If you follow these simple steps, you can easily find the flexible coupling that's perfect for your application in the following Selection Chart.

### Step 1: Determine the Service Factor

Motors with the same horsepower are assigned different Service Factors to reflect the different loads and stresses. For example, a 40HP motor running a standard hydraulic application with infrequent stops carries a Service Factor of 1.00 while another 40HP application on an injection molding machine has a Service Factor of 3.00. This means the second motor requires a larger flexible coupling than the first. Ignoring the Service Factor can cause you to buy a coupling too small for your application, leading to premature wear and maintenance.

For applications with intermittent starts and stops and no reversing, a 1.50 to 1.75 Service Factor would be appropriate. Applications with frequent starts and stops or reversing duty normally carry a 2.00 Service Factor. Typically, motors designed for high torque or reversing applications have a 3.00 Service Factor. Service Factors for other typical applications include:

#### Application

Hydraulics applications with infrequent stops  
Hydraulic units with cycling loads  
Conveyors  
Internal combustion engines  
Machine tool, textile, cranes and woodworking machinery  
Saw mill machines  
Injections molding machines

#### Service Factor

1.00-1.50  
1.50-2.50  
1.50-2.50  
1.75-2.50  
2.0  
3.0  
3.0

Note: The standard P380 insert is rated for Service Factors up to 1.5. For applications rated above 1.5, we highly recommend using our hytrel insert.

### Step 2: Determine Minimum Torque Rating in Lbs.-In.

If the minimum Torque Rating is not known, it can be calculated using the HP and RPM: Minimum torque = (HP x 63000)/RPM

### Step 3: Multiply Full Load Torque by the Selected Service Factor.

### Step 4: Determine Shaft Size

A shaft diameter MUST NOT EXCEED a coupling's maximum bore. For example, RC3 flexible drive coupling has a 1 5/8 inch maximum bore (shaft diameter). Therefore, 1 5/8 inch is the largest shaft that can be installed in the coupling.

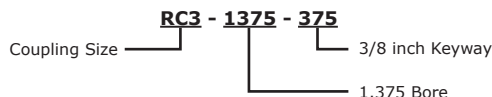
### Step 5: Go to the Flexible Drive Coupling Data Table on page 51.

Select the coupling size that meets or exceeds your minimum Torque and Service Factor calculation. Then go to the coupling Availability Chart to match Bore & Key. (Make sure the motor shaft does not exceed the coupling's maximum bore.)

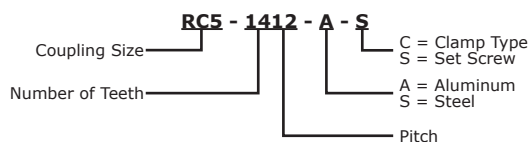
### Part Numbers

LDI part numbering system is based on the coupling's size, bore & key or spline. The first three digits represent the coupling size. The next four digits refer to the bore or number of teeth/pitch (in inches or millimeters). The last grouping indicates keyways, clamps, set screws or spline options.

#### Bore & Keyway Example



#### Spline Example



# FOOT MOUNTING BRACKETS

## USAF17 4-BOLT

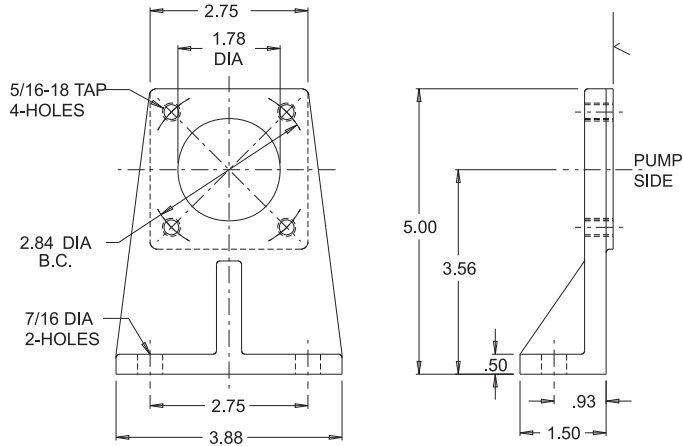
This Foot Mounting Bracket is designed to mount a USAF17 4-bolt hydraulic pump or motor with supporting feet.

### Standard Features:

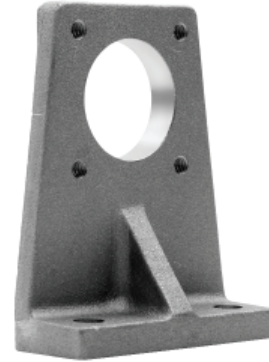
- Light weight - High strength
- Two foot mounting holes provided
- Machined to a 3.56 inch shaft centerline height

### Standard Material:

- Cast Aluminum



**NOTE:** All dimensions are inches



### USAF17 4-Bolt Foot Mounting Bracket

Part No.	Description
<b>FM100</b>	USAF17 4-Bolt Foot Bracket

## SAE AA 2-BOLT

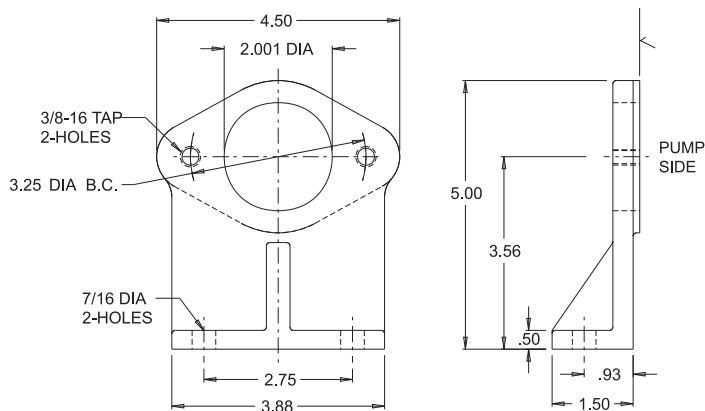
This Foot Mounting Bracket is designed to mount a SAE AA 2-bolt hydraulic pump or motor with supporting feet.

### Standard Features:

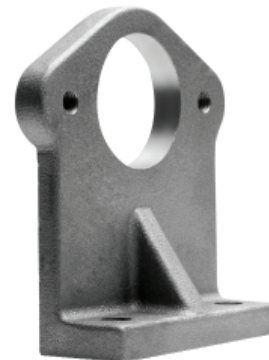
- Light weight - High strength
- Two foot mounting holes provided
- Machined to a 3.56 inch shaft centerline height

### Standard Material:

- Cast Aluminum



**NOTE:** All dimensions are inches



### SAE AA 2-Bolt Foot Mounting Bracket

Part No.	Description
<b>FM150</b>	SAE AA 2-Bolt Foot Bracket

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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Pg RA-56

# FOOT MOUNTING BRACKETS

## SAE A 2-BOLT

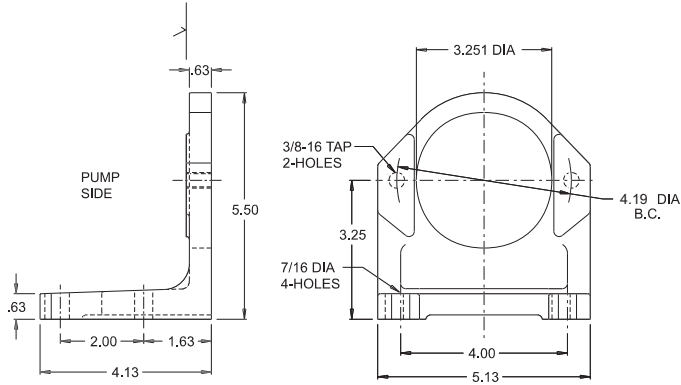
This Foot Mounting Bracket is designed to mount a SAE A 2-bolt hydraulic pump or motor with supporting feet.

### Standard Features:

- Light weight - High strength
- Four foot mounting holes provided
- Machined to a 3.25 inch shaft centerline height

### Standard Material:

- Cast Aluminum



### SAE A 2-Bolt Foot Mounting Bracket

Part No.	Description
FM200	SAE A 2-Bolt Foot Bracket

**NOTE:** All dimensions are inches

## SAE B 2-BOLT

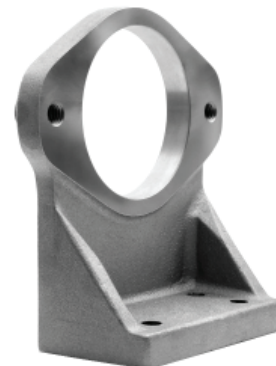
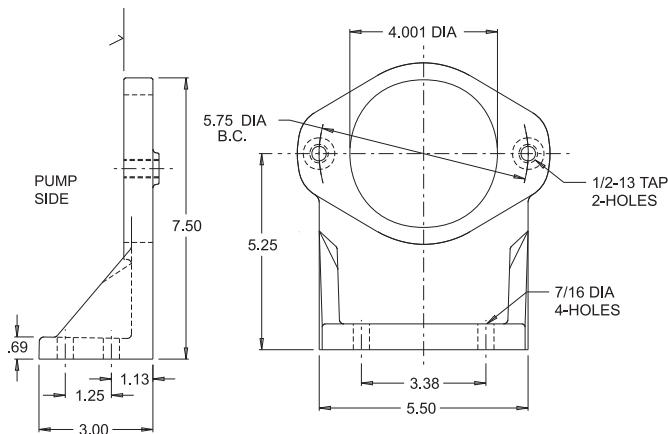
This Foot Mounting Bracket is designed to mount a SAE B 2-bolt hydraulic pump or motor with supporting feet.

### Standard Features:

- Light weight - High strength
- Four foot mounting holes provided
- Machined to a 5.25 inch shaft centerline height

### Standard Material:

- Cast Aluminum



### SAE B 2-Bolt Foot Mounting Bracket

Part No.	Description
FM300	SAE B 2-Bolt Foot Bracket

**NOTE:** All dimensions are inches

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# FOOT MOUNTING BRACKETS

## SAE B 2/4-BOLT

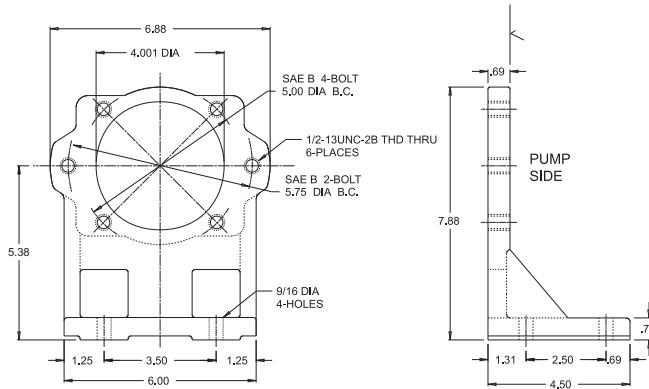
This Foot Mounting Bracket is designed to mount a SAE B 2 or 4-bolt hydraulic pump or motor with supporting feet.

### Standard Features:

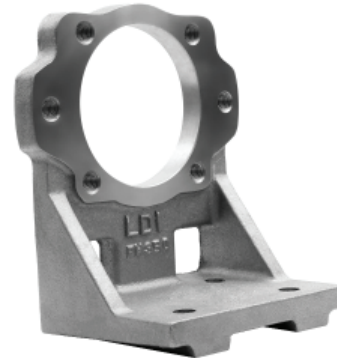
- Light weight - High strength
- Four foot mounting holes provided
- Machined to a 5.375 inch shaft centerline height

### Standard Material:

- Cast Aluminum



**NOTE:** All dimensions are inches



### SAE B 2/4-Bolt Foot Mounting Bracket

Part No.	Description
FM350	SAE B 2/4-Bolt Foot Bracket

## SAE C 2/4-BOLT

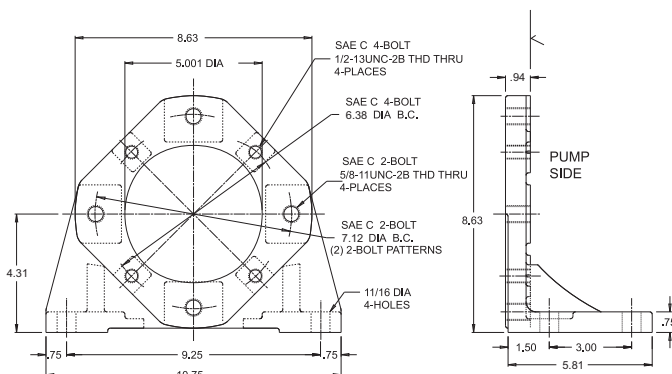
This Foot Mounting Bracket is designed to mount a SAE C 2 or 4-bolt hydraulic pump or motor with supporting feet.

### Standard Features:

- Light weight - High strength
- Four foot mounting holes provided
- Machined to a 4.312 inch shaft centerline height

### Standard Material:

- Cast Iron



**NOTE:** All dimensions are inches



### SAE C 2/4-Bolt Foot Mounting Bracket

Part No.	Description
FM400	SAE C 2/4-Bolt Foot Bracket

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# GAS ENGINE ADAPTERS

## GAS ENGINE MOUNTING FLANGE INFORMATION

### Standard Features:

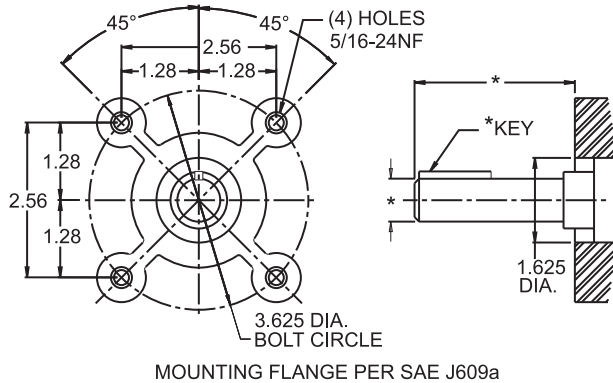
- Decrease assembly time - bolt mount to side of gas engine
- Made of lightweight but strong cast aluminum
- Proper shaft alignment assured
- Reduced cost - no need for foot brackets, shims or risers
- Provide a clean, neat appearance for your finished product
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

### Easy Assembly Pump to Gas Engine:

- Place coupling half for engine on engine shaft and lightly tighten set screw
- Mount pump to pump end of gas engine adapter
- Place coupling half for pump on pump shaft and lightly tighten set screw
- Position coupling insert - Bolt gas engine adapter with pump installed to the face of the gas engine
- Adjust coupling thru access opening - Thoroughly tighten set screws and mounting bolts

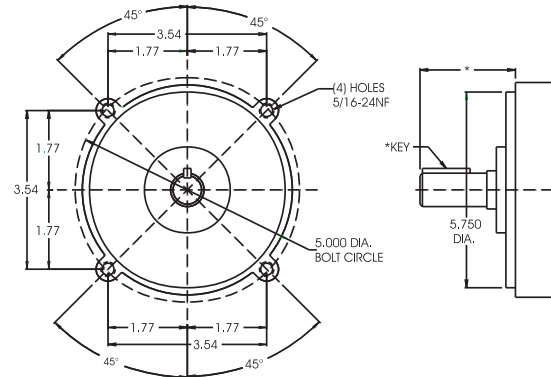
### PEM-F FLANGE

\*Dimensions to be furnished by customer



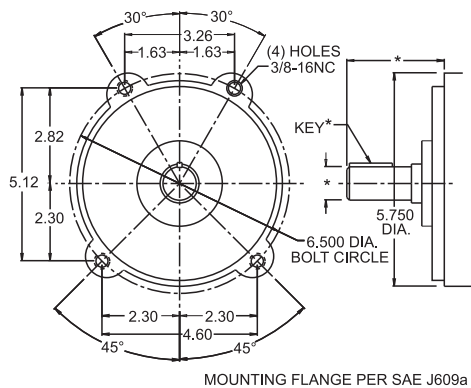
### LB152 FLANGE

\*Dimensions to be furnished by customer



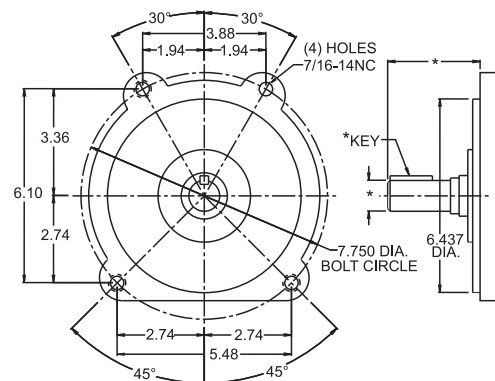
### PEM-G FLANGE

\*Dimensions to be furnished by customer



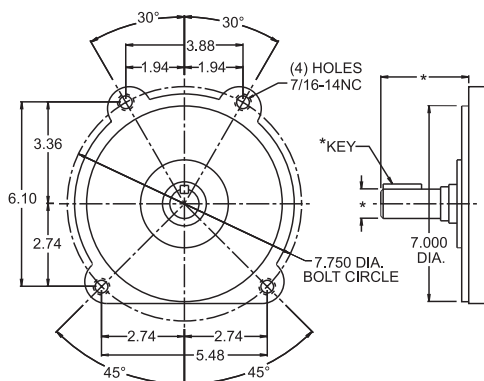
### PEM-H FLANGE

\*Dimensions to be furnished by customer



### PEM-HH FLANGE

\*Dimensions to be furnished by customer



**NOTE:** All dimensions are inches

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# GAS ENGINE ADAPTERS

## PEM-F FLANGE

Pump Gas Engine Adapters (Bell Housings) are designed to assure proper shaft alignment between the gasoline engine and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

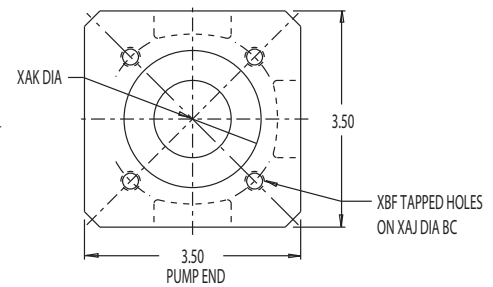
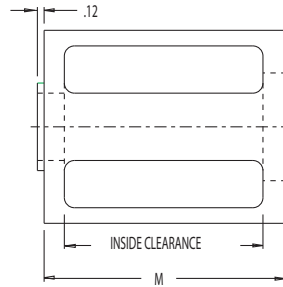
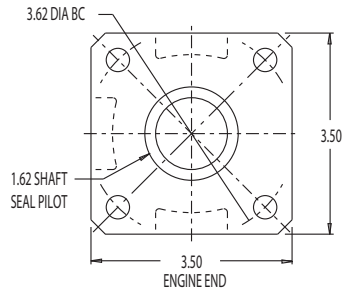
### Standard Features:

- Light weight - High strength
- Drive coupling accessibility
- Proper shaft alignment assured
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

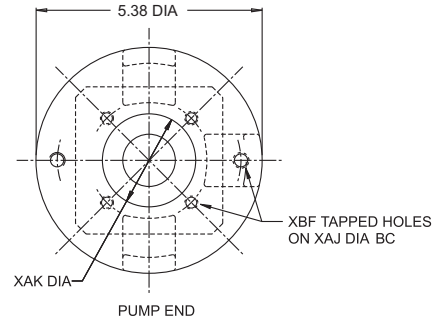
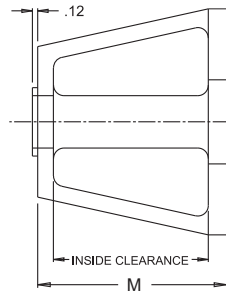
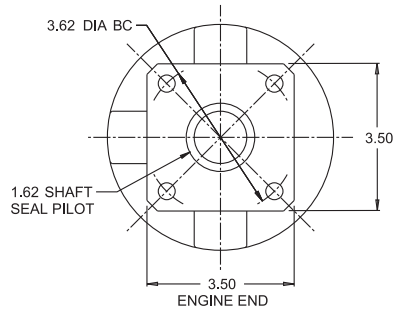
### Standard Material:

- Cast Aluminum

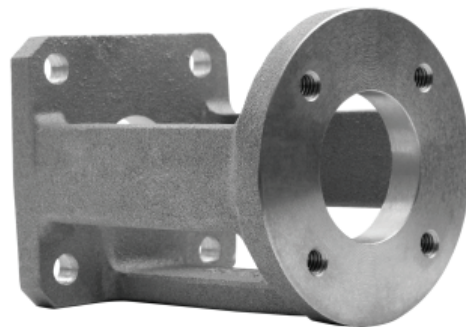
**Adapter  
6048**



**Adapter  
6049  
6061**



**NOTE:** All dimensions are inches.



**Gas Engine Adapter - PEM-F Flange (inches)**

Part No.	Pump Type	Pump Mounting Flange	MAX Coupling Dia	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	M Face to Face	Inside Clearance
<b>6048</b>	USAF 4F17	4 Bolt	2.63	2.84	1.78	5/16-18	4.50	3.38
<b>6049</b>	SAE AA	2 Bolt	2.81	3.25	2.00	3/8-16	4.50	3.38
<b>6061</b>	SAE A	2 Bolt	2.81	4.19	3.25	3/8-16	4.69	3.38

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# GAS ENGINE ADAPTERS

## LB152 FLANGE

Pump Gas Engine Adapters (Bell Housings) are designed to assure proper shaft alignment between the gasoline engine and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

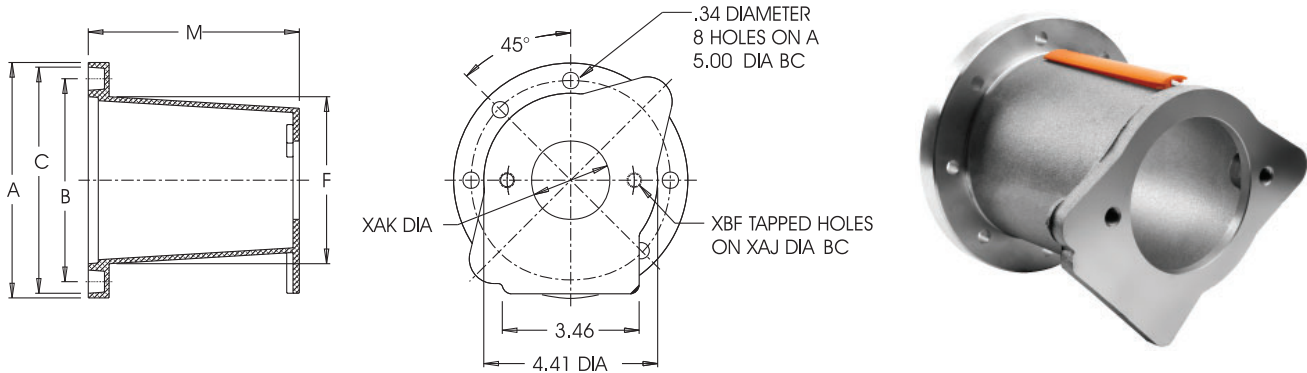
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

### Standard Material:

- Cast Aluminum

### WARNING:

- To avoid possible injury, access hole cover must be in place during operation



**NOTE:** All dimensions are inches.

Gas Engine Adapter - LB152 Flange (inches)

Part No.	Pump Type	Pump Mounting Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	Dimensions				M Face to Face
						A	B	C	F	
LB152825A	SAE A	2 Bolt	4.19	3.25	M10x1.5	5.98	5.00	5.74	4.33	5.59

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# GAS ENGINE ADAPTERS

## PEM-G FLANGE

Pump Gas Engine Adapters (Bell Housings) are designed to assure proper shaft alignment between the gasoline engine and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

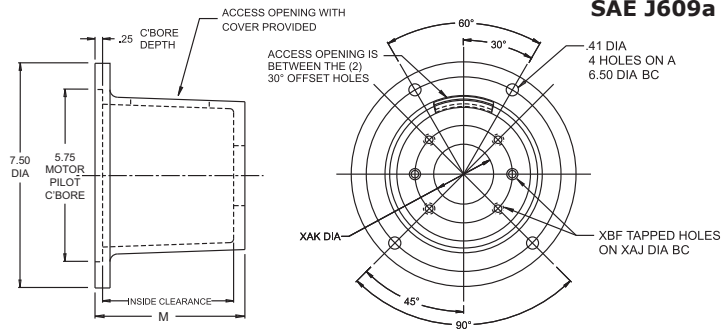
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

### Standard Material:

- Cast Aluminum

### WARNING:

- To avoid possible injury, access hole cover must be in place during operation

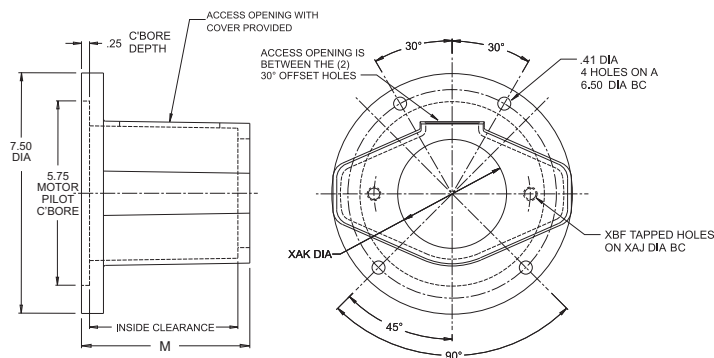


SAE J609a



**NOTE:** All dimensions are inches.

Gas Engine Adapter - PEM-G Flange (inches)								
Part No.	Pump Type	Pump Mounting Flange	MAX Coupling Dia	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	M Face to Face	Inside Clearance
<b>6025</b>	USAF 4F17	4 Bolt	4.00	2.84	1.78	5/16-18	5.00	4.00
<b>6021</b>							5.62	4.50
<b>6023</b>	SAE AA	2 Bolt	4.00	3.25	2.00	3/8-16	5.00	4.00
<b>6020</b>							5.62	4.50
<b>6024</b>	SAE A	2 Bolt	4.00	4.19	3.25	3/8-16	5.00	4.00
<b>6019</b>							5.62	4.50



**NOTE:** All dimensions are inches. Standard metric series pump flanges also available - Consult factory.

Gas Engine Adapter - PEM-G Flange (inches)								
Part No.	Pump Type	Pump Mounting Flange	MAX Coupling Dia	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	M Face to Face	Inside Clearance
<b>196899</b>	SAE B	2 Bolt	3.50	5.75	4.00	1/2-13	5.25	4.62

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# GAS ENGINE ADAPTERS

## PEM-H FLANGE

Pump Gas Engine Adapters (Bell Housings) are designed to assure proper shaft alignment between the gasoline engine and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

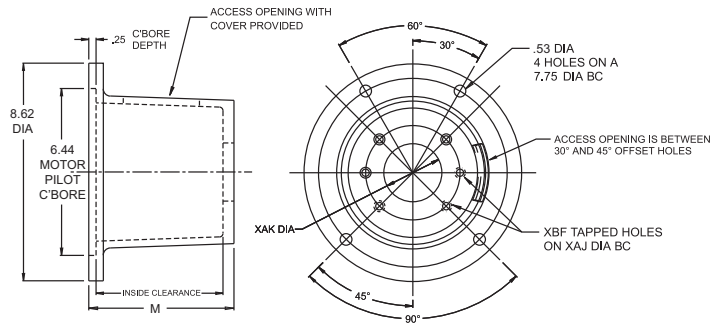
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

### Standard Material:

- Cast Aluminum

### WARNING:

- To avoid possible injury, access hole cover must be in place during operation



**NOTE:** All dimensions are inches.

Gas Engine Adapter - PEM-H Flange (inches)								
Part No.	Pump Type	Pump Mounting Flange	MAX Coupling Dia	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	M Face to Face	Inside Clearance
6067	SAE A	2 Bolt	4.00	4.187	3.251	3/8-16	5.625	4.50

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Pg RA-63

# GAS ENGINE ADAPTERS

## PEM-HH FLANGE

Pump Gas Engine Adapters (Bell Housings) are designed to assure proper shaft alignment between the gasoline engine and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

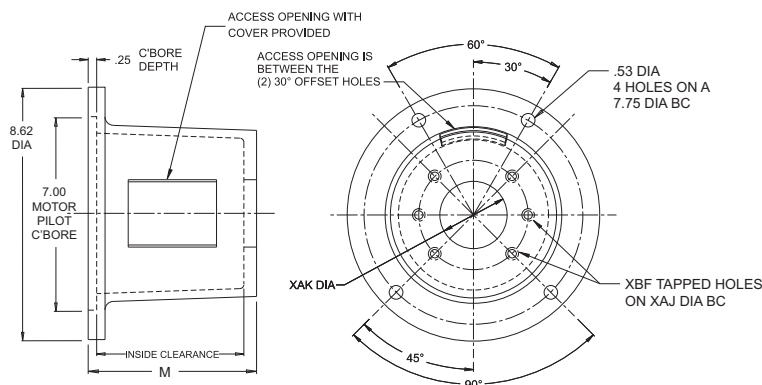
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

### Standard Material:

- Cast Aluminum

### WARNING:

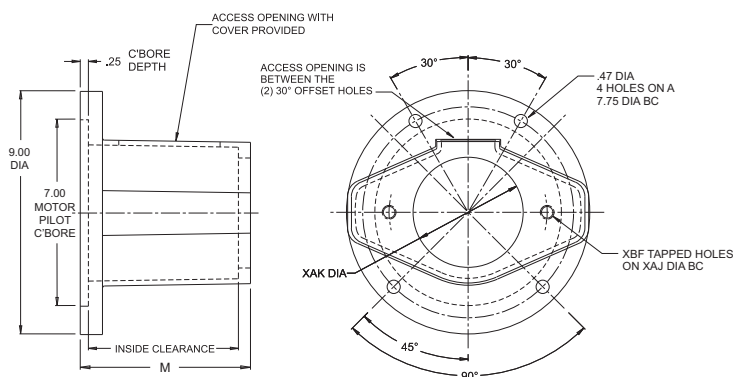
- To avoid possible injury, access hole cover must be in place during operation



**NOTE:** All dimensions are inches.

**Gas Engine Adapter - PEM-HH Flange (inches)**

Part No.	Pump Type	Pump Mounting Flange	MAX Coupling Dia	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	M Face to Face	Inside Clearance
<b>6017</b>	SAE A	2 Bolt	4.00	4.19	3.25	3/8-16	5.62	4.50



**NOTE:** All dimensions are inches. Standard metric series pump flanges also available - Consult factory.

**Gas Engine Adapter - PEM-HH Flange (inches)**

Part No.	Pump Type	Pump Mounting Flange	MAX Coupling Dia	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes (NC)	M Face to Face	Inside Clearance
<b>196199</b>	SAE A	2 Bolt	3.50	4.19	3.25	3/8-16	7.00	5.12
<b>196399</b>	SAE B	2 Bolt 4 Bolt	3.50	5.75 5.00	4.00	1/2-13	7.00	5.12
<b>196599</b>	SAE C	2 Bolt	3.50	7.12	5.00	5/8-11	7.00	5.12

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# GEAR PUMPS

## Product Range

Gear pump range includes single pumps of groups AP100 and AP212. Displacements range from 0.073 in<sup>3</sup>/rev to 1.599 in<sup>3</sup>/rev.

## Recommended Fluids/Allowed Temperatures

Mineral oil based hydraulic fluids that comply with ISO/DIN standards is recommended.

## Suction

The absolute suction pressure must be 11 PSI. It is also advisable to choose a filter of suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time.

The following items are also available (consult factory)

- Spline Shafts
- Left Hand Rotation (CCW)
- Viton Seal Kits

## Viscosity Range

Recommended	Permitted
100 to 500 SUS	up to 3000 SUS

## Operating Temperature

Seal Type	Temperature
Buna N	5° to 176° F -15° to 80° C
Viton	14° to 248° F -10° to 120° C

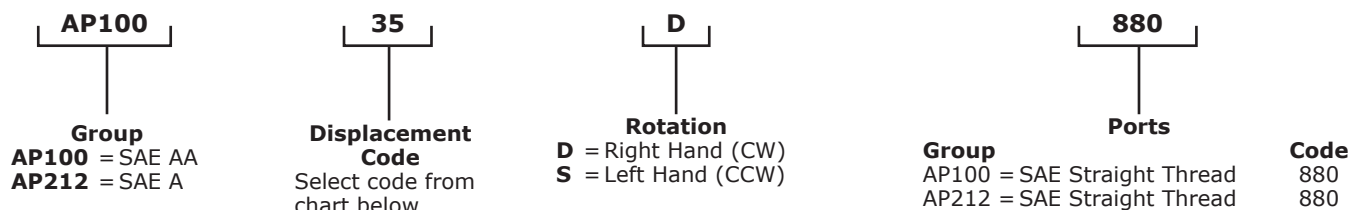


**AP100**



**AP212**

## How to Order



Gear Pumps					
Group	Code	Displacement in <sup>3</sup> /rev	Group	Code	Displacement in <sup>3</sup> /rev
AP100	12	.073	AP212	45	.269
	17	.103		65	.391
	25	.152		85	.513
	35	.213		11	.677
	43	.262		15	.921
	5	.305		19	1.172
	65	.396		22	1.355
	8	.476		26	1.599

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# GEAR PUMPS

## AP100 SERIES

AP100 Gear pumps are widely used in modern hydraulic systems due to their high performance, long service life and low purchase and maintenance costs. The essential components of the AP100 series external gear pumps are an aluminum alloy body and two gearwheels, supported by plain bearings.

### Standard Features:

- High overall efficiency thanks to optimized hydraulic compensation
- Design and materials that guarantee excellent technical specifications and long life service
- Recommend using only mineral oil-based hydraulic fluids that comply with the ISO/DIN standards
- Buna N Seal

### Suction:

- Absolute suction pressure must be 11 PSI
- It is also advisable to choose a filter of a suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time

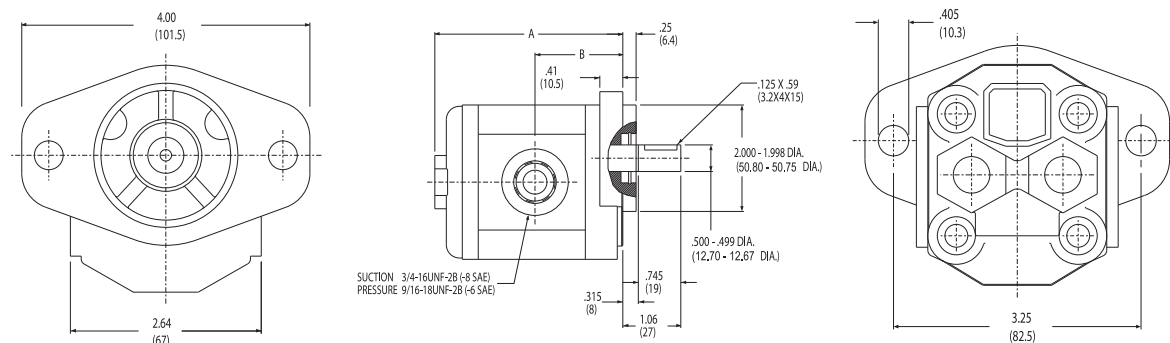
### Viscosity Range:

- Recommended 20 + 120 mm<sup>2</sup>/s (cSt)
- Permitted up to 700 mm<sup>2</sup>/s (cSt)

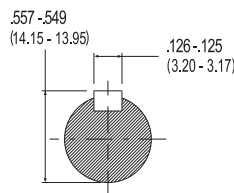
### Operating Temperature:

- 5° to 176°F (-15 to 80°C)

**CAUTION:** • Not to be used with Water Glycol



**NOTE:** All dimensions are inches (mm)



### AP100 Series

Part No.	Displacement in <sup>3</sup> /rev	Flow		Max Pressure			Max Speed RPM	Dimensions			
		@1725 RPM GPM	@3450 RPM GPM	Continuous PSI	Intermittent PSI	Peak PSI		A		B	
								in	mm	in	mm
AP10012D880	.073	.546	1.091	3000	3600	4000	5000	3.29	83.50	1.56	39.50
AP10017D880	.103	.770	1.540	3000	3600	4000	5000	3.37	85.50	1.60	40.50
AP10025D880	.152	1.136	2.272	3000	3600	4000	5000	3.50	89.00	1.65	42.00
AP10035D880	.213	1.592	3.184	3000	3300	3600	4000	3.66	93.00	1.75	44.50
AP10043D880	.262	1.958	3.917	3000	3300	3600	4000	3.82	97.00	1.81	46.00
AP1005D880	.305	2.280	4.560	3000	3300	3600	3500	3.92	99.50	1.87	47.50
AP10065D880	.396	2.957	5.914	2700	3150	3400	3000	4.11	104.50	1.97	50.00
AP1008D880	.476	3.554	7.109	2600	3000	3300	3000	4.33	110.00	2.09	53.00

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# GEAR PUMPS

## AP212 SERIES

AP212 gear pumps are widely used in modern hydraulic systems due to their high performance, long service life and low purchase and maintenance costs. The AP212 series is able to achieve high operating pressures, excellent volumetric and mechanical efficiency.

### Standard Features:

- New generation optimized and standardized balancing blocks
- New gears profile (12 teeth) with increased transmissible torque
- Design and materials that guarantee excellent technical specifications and long life service
- Recommend using only mineral oil-based hydraulic fluids that comply with the ISO/DIN standards
- Buna N Seals

### Suction:

- Absolute suction pressure must be 11 PSI
- It is also advisable to choose a filter of a suitable size to minimize any pressure drop and to take measures to prevent gradual clogging over time

### Viscosity Range:

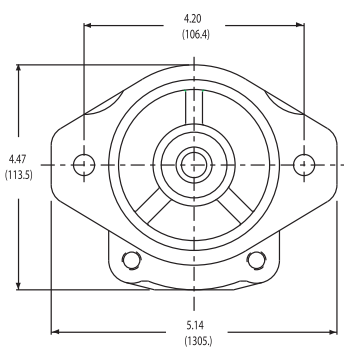
- Recommended 20 + 120 mm<sup>2</sup>/s (cSt)
- Permitted up to 700 mm<sup>2</sup>/s (cSt)

### Operating Temperature:

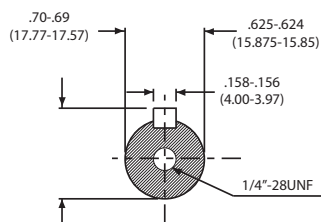
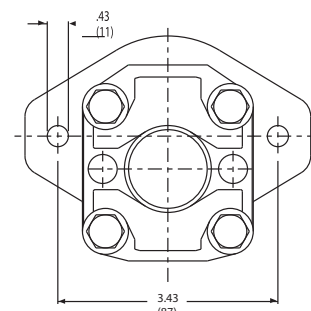
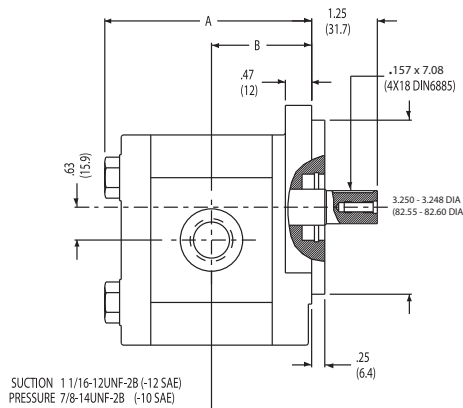
- 5° to 176°F (-15 to 80°C)

### CAUTION: • Not to be used with Water Glycol

- The coupling joint must be able to absorb any discrepancies in the coaxial alignment of the motor-pump shafts without placing any load on the pump shaft
- Absolutely no radial or axial forces should be transmitted to the drive shaft in the motor-pump coupling
- Such forces cause rapid and irregular wear on the balancing surface of the bushings and gear support, with a consequent worsening in pump performance



**NOTE:** All dimensions are inches (mm)



### AP212 Series

Part No.	Displacement in <sup>3</sup> /rev	Flow		Max Pressure			Max Speed rpm	Dimensions			
		@1725 RPM GPM	@3450 RPM GPM	Continuous PSI	Intermittent PSI	Peak PSI		A		B	
								in	mm	in	mm
AP21245D880	.269	1.888	3.776	3600	4000	4300	4000	3.48	88.5	1.67	42.5
AP21265D880	.391	2.745	5.489	3600	4000	4300	4000	3.60	91.5	1.73	44.0
AP21285D880	.513	3.601	7.202	3600	4000	4300	4000	3.72	94.5	1.79	45.5
AP21211D880	.677	4.752	9.504	3600	4000	4300	4000	3.88	98.5	1.87	47.5
AP21215D880	.921	6.465	12.930	3600	4000	4300	3500	4.11	104.5	1.99	50.5
AP21219D880	1.172	8.227	16.454	3000	3500	3700	3500	4.35	110.5	2.11	53.5
AP21222D880	1.355	9.511	19.023	2600	3000	3300	3000	4.52	115	2.18	55.5
AP21226D880	1.599	11.224	22.448	2500	2850	3150	3000	4.76	121	2.30	58.5

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# IMMERSION HEATERS

## ET SERIES

Immersion Heaters are primarily used to help maintain oil temperature to avoid cold startups in cold operating conditions. They may also be utilized in water and other solutions.

### Standard Features:

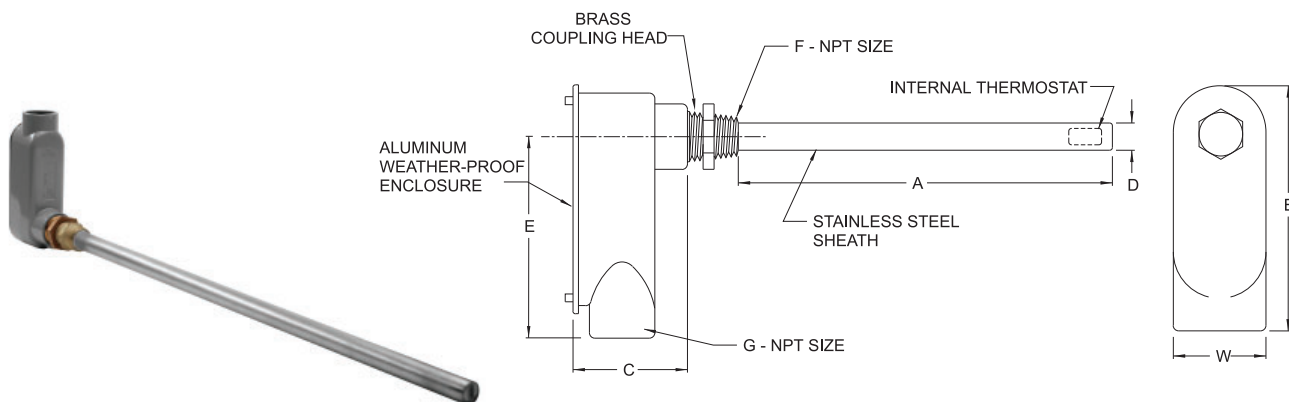
- Keeps oil at approximately 80°F
- Automatic built-in fixed setting thermostat normally closes at 70°F and opens at 100°F
- Will not burn oil
- UL recognized and CSA certified
- Weatherproof wiring enclosure (NEMA 4)
- 22 W/sq in power density on all ET Series heaters
- Interior thermostat has a 250VAC maximum rating
- For tanks larger than 500 gallon use multiple heaters
- Heaters over 10 amps, 480 volt, or three phase must be used with a contactor
- Amps = Watts ÷ Volts for single phase
- Amps = Watts ÷ (Volts x 1.73) for three phase
- Wiring diagram included with heater
- Please refer to Immersion Heaters Install and Wiring Instructions for information on installation (Appendix RA-13 on page RA-A13)

### CAUTION:

- Heaters must be mounted horizontally
- Do not mount from the top down
- Heaters must be immersed at all times
- Heaters are not rated for DC current

### NOTE:

The ET Series heaters will function when operated at lower than rated voltage, but with associated reductions in power output and efficiency



### Common Options Available

- Ambient Thermostat: open at 60° F/close at 40° F - 10A/240 VAC max (Part No. T-60)

### Custom Options Available

- Three Phase available on ET8 Models (add -3 to part number)
- Explosion proof models available

ET Series											
Part No.	Reservoir Size (gal)	Wattage	Volts	NPT		Dimensions (inches)					
				F	G	A	B	C	D	E	W
ET2-121	up to 10	125	120	1/2*	1/2	7.00	4.50	2.20	.70	3.60	1.30
ET2-251	up to 25	250	120	1/2*	1/2	8.00	4.50	2.20	.70	3.60	1.30
ET2-252	up to 25	250	240	1/2*	1/2	8.00	4.50	2.20	.70	3.60	1.30
ET3-501	25-50	500	120	3/4	3/4	12.60	5.10	2.50	.75	4.10	1.50
ET3-502	25-50	500	240	3/4	3/4	12.60	5.10	2.50	.75	4.10	1.50
ET3-504	25-50	500	480	3/4	3/4	12.60	5.10	2.50	.75	4.10	1.50
ET3-1001	50-100	1000	120	3/4	3/4	22.60	5.10	2.50	.75	4.10	1.50
ET3-1002	50-100	1000	240	3/4	3/4	22.60	5.10	2.50	.75	4.10	1.50
ET3-1004	50-100	1000	480	3/4	3/4	22.60	5.10	2.50	.75	4.10	1.50
ET8-2502	100-250	2500	240	2	1 1/4	23.00	8.20	3.70	1.90	6.70	2.80
ET8-2504	100-250	2500	480	2	1 1/4	23.00	8.20	3.70	1.90	6.70	2.80
ET8-5002	250-500	5000	240	2	1 1/4	44.00	8.20	3.70	1.90	6.70	2.80
ET8-5004	250-500	5000	480	2	1 1/4	44.00	8.20	3.70	1.90	6.70	2.80

\*Bushing included to accommodate 3/4 inch NPT coupling

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# MOTOR BASE PLATES

Motor Base Plates may be used where the mounting surface is too thin to drill & tap, where the motor foot may need to overhang, on structural frames or increase the motor/pump centerline for piping mounting ease.

## Standard Features:

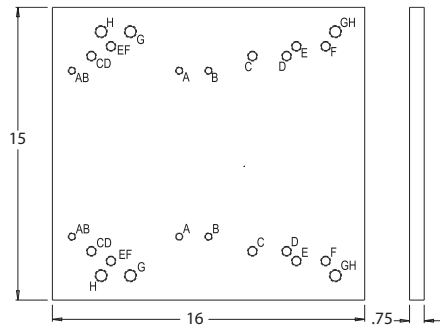
- Easily welded in place
- Each Motor Base Plate has multiple NEMA motor frame mounting patterns (sets of 4 holes)
- LDI gray primer

## Standard Material:

- Carbon Steel

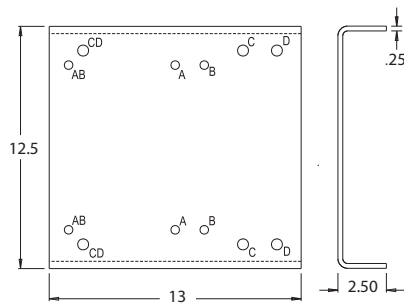
## NOTE:

- All dimensions are inches



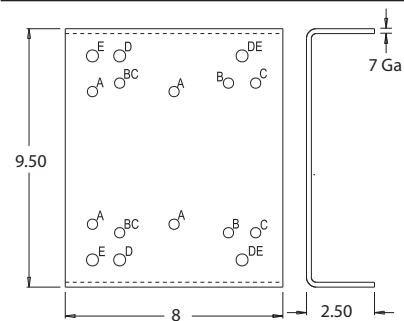
**Part No. 5130**  
**Weight 51 lbs**

Pattern	Tap Size	Motor Frame	Pattern	Tap Size	Motor Frame
A	3/8-16	213TC	E	1/2-13	284TC/TSC
B	3/8-16	215TC	F	1/2-13	286TC/TSC
C	1/2-13	254TC	G	5/8-11	324TC/TSC
D	1/2-13	256TC	H	5/8-11	326TC/TSC



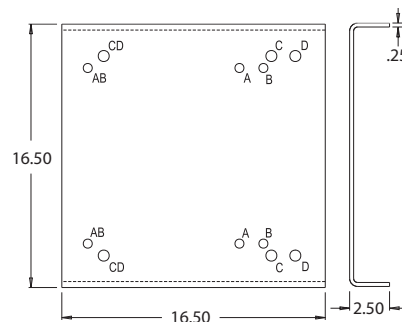
**Part No. 5131**  
**Weight 15 lbs**

Pattern	Diameter (inch)	Motor Frame
A	.44	213TC
B	.44	215TC
C	.56	254TC
D	.56	256TC



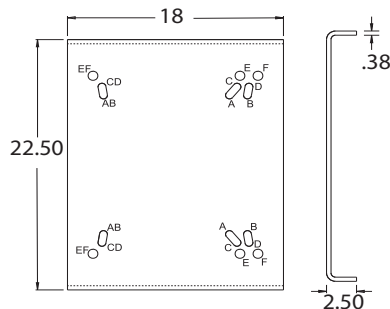
**Part No. 5135**  
**Weight 6 lbs**

Pattern	Diameter (inch)	Motor Frame
A	.38	56C
B	.38	143TC
C	.38	145TC
D	.44	182TC
E	.44	184TC



**Part No. 5132**  
**Weight 34 lbs**

Pattern	Diameter (inch)	Motor Frame
A	.56	284TC/TSC
B	.56	286TC/TSC
C	.69	324TC/TSC
D	.69	326TC/TSC



**Part No. VPM324**  
**Weight 51 lbs**

Pattern	Diameter (inch)	Motor Frame
A	.66	324TC/TSC
B	.66	326TC/TSC
C	.66	364TC/TSC
D	.81	365TC/TSC
E	.81	404TC/TSC
F	.81	405TC/TSC

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# MOUNTING PLATES

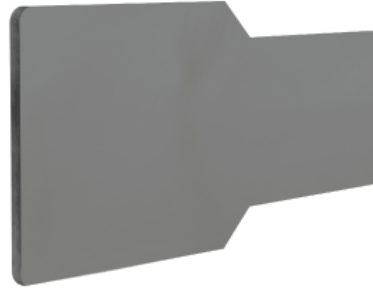
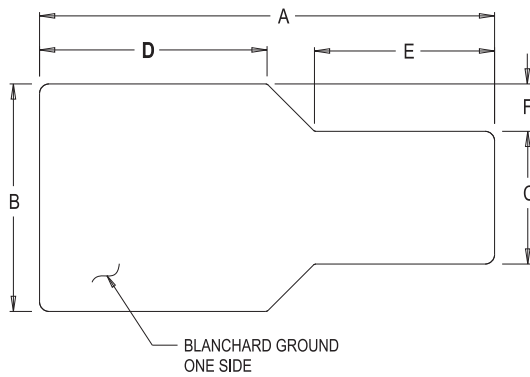
These mounting plates are used when mounting a motor to a pump using a foot bracket.

## Standard Features:

- Blanchard ground on one side to help shaft alignment
- Room for mounting a coupling guard to cover a rotating drive coupling assembly
- LDI gray primer

## Standard Material:

- Carbon Steel



Mounting Plates									
Style	Part No.	inches						Material	Piece Weight (lbs)
		A	B	C	D	E	F		
10	<b>5269</b>	24.00	12.00	7.00	12.00	9.50	2.50	.75 x 12.00 x 24.00	50
20	<b>5270</b>	27.00	13.00	9.00	13.50	11.50	2.00	.75 x 13.00 x 27.00	65
30	<b>5271</b>	35.00	16.00	11.00	17.50	15.00	2.50	.75 x 16.00 x 35.00	95

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# NOISE & VIBRATION DAMPENING DEVICES

## DAMPENING BARS - BOLT DOWN

Motor Dampening Bars are designed to reduce vibration and structure borne noise levels from the motor to the mounting surface.

### Standard Features:

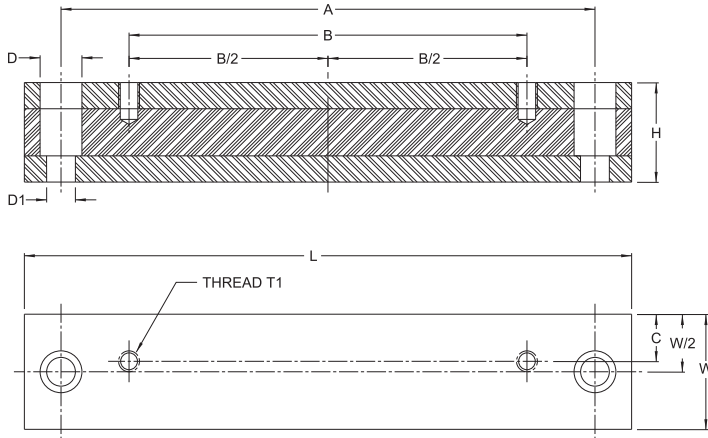
- Average expected reduction of structure borne noise is 3 - 4 dBA
- Full mounting range for NEMA frame motors
- Two are required per motor

### Standard Material

- Natural rubber vulcanized bonded to carbon steel

### Temperature Ratings:

- Recommended operating temperature is -40° to 167° F (75°C).



Motor Dampening Bars - Bolt Down										
		Dimensions (inches)								
Part No.	Motor Size	L	W	H	A	B	C	D	D1	T1 (NC)
VSM-56-B	56C	7.25	2.00	1.56	5.75	3.00	.88	.81	.56	5/16-18
VSM-143-B	143TC	7.75	2.00	1.56	6.25	4.00	.81	.81	.56	5/16-18
VSM-145-B	145TC	8.75	2.00	1.56	7.25	5.00	.81	.81	.56	5/16-18
VSM-182-B	182TC	8.75	2.00	1.56	7.25	4.50	.94	.81	.56	3/8-16
VSM-184-B	184TC	9.75	2.00	1.56	8.25	5.50	.94	.81	.56	3/8-16
VSM-213-B	213TC	10.00	2.00	1.56	8.50	5.50	.94	.81	.56	3/8-16
VSM-215-B	215TC	11.50	2.00	1.56	10.00	7.00	.94	.81	.56	3/8-16
VSM-254-B	254TC	13.00	2.00	1.75	11.50	8.25	.94	.81	.56	1/2-13
VSM-256-B	256TC	14.75	2.00	1.75	13.25	10.00	.94	.81	.56	1/2-13
VSM-284-B	284TC/TSC	14.50	2.75	2.38	12.75	9.50	1.12	1.25	.69	1/2-13
VSM-286-B	286TC/TSC	16.00	2.75	2.38	14.25	11.00	1.12	1.25	.69	1/2-13
VSM-324-B	324TC/TSC	16.00	3.00	2.38	14.00	10.50	1.56	1.25	.81	5/8-11
VSM-326-B	326TC/TSC	17.50	3.00	2.38	15.50	12.00	1.56	1.25	.81	5/8-11
VSM-364-B	364TC/TSC	17.00	3.00	2.38	15.00	11.25	1.56	1.25	.81	5/8-11
VSM-365-B	365TC/TSC	18.00	3.00	2.38	16.00	12.25	1.56	1.25	.81	5/8-11
VSM-404-B	404TC/TSC	19.50	4.00	2.38	17.25	12.25	2.00	1.56	1.06	3/4-10
VSM-405-B	405TC/TSC	21.00	4.00	2.38	18.75	13.75	2.00	1.56	1.06	3/4-10
VSM-444-B	444TC/TSC	23.00	4.50	2.38	20.75	14.50	2.25	1.56	1.06	3/4-10
VSM-445-B	445TC/TSC	26.00	4.50	2.38	23.75	16.50	2.25	1.56	1.06	3/4-10
VSM-447-B	447TC/TSC	36.00	4.50	2.38	33.00	20.00	2.31	1.75	1.06	3/4-10
VSM-449-B	449TC/TSC	36.00	4.50	2.38	33.00	25.00	2.31	1.75	1.06	3/4-10

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# NOISE & VIBRATION DAMPENING DEVICES

## DAMPENING BARS - WELDABLE

Motor Dampening Bars are designed to reduce vibration and structure borne noise levels from the motor to the mounting surface.

### Standard Features:

- Average expected reduction of structure borne noise is 3 - 4 dBA
- Full mounting range for NEMA frame motors
- Two are required per motor

### Standard Materials:

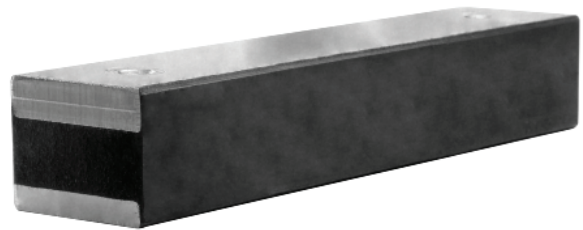
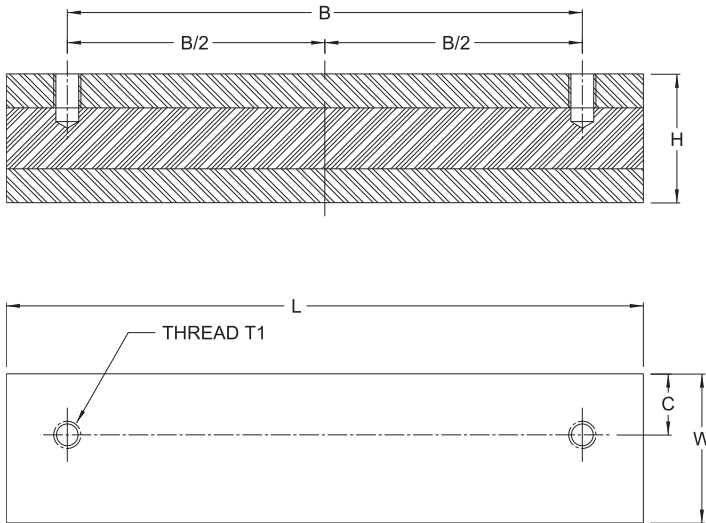
- Natural rubber vulcanized bonded to carbon steel

### Temperature Ratings:

- Recommended operating temperature is -40° to 167° F (75°C).

### NOTE:

- Please refer to Appendix RA-4 on page RA-A4 for welding instructions



Motor Dampening Bars - Weldable							
Part No.	Motor Size	Dimensions (inches)					
		L	W	H	B	C	T1 (NC)
VSM-56-W	56C	4.75	2.00	1.56	3.00	.88	5/16-18
VSM-143-W	143TC	5.50	2.00	1.56	4.00	.81	5/16-18
VSM-145-W	145TC	6.50	2.00	1.56	5.00	.81	5/16-18
VSM-182-W	182TC	6.00	2.00	1.56	4.50	.94	3/8-16
VSM-184-W	184TC	7.00	2.00	1.56	5.50	.94	3/8-16
VSM-213-W	213TC	7.75	2.00	1.56	5.50	.94	3/8-16
VSM-215-W	215TC	9.00	2.00	1.56	7.00	.94	3/8-16
VSM-254-W	254TC	10.50	2.00	1.75	8.25	.94	1/2-13
VSM-256-W	256TC	12.25	2.00	1.75	10.00	.94	1/2-13
VSM-284-W	284TC/TSC	12.00	2.75	2.38	9.50	1.12	1/2-13
VSM-286-W	286TC/TSC	13.25	2.75	2.38	11.00	1.12	1/2-13
VSM-324-W	324TC/TSC	12.50	3.00	2.38	10.50	1.56	5/8-11
VSM-326-W	326TC/TSC	14.00	3.00	2.38	12.00	1.56	5/8-11
VSM-364-W	364TC/TSC	13.50	3.00	2.38	11.25	1.56	5/8-11
VSM-365-W	365TC/TSC	14.50	3.00	2.38	12.25	1.56	5/8-11
VSM-404-W	404TC/TSC	15.50	4.00	2.38	12.25	2.00	3/4-10
VSM-405-W	405TC/TSC	17.00	4.00	2.38	13.75	2.00	3/4-10
VSM-444-W	444TC/TSC	19.50	4.50	2.38	14.50	2.25	3/4-10
VSM-445-W	445TC/TSC	21.00	4.50	2.38	16.50	2.25	3/4-10
VSM-447-W	447TC/TSC	26.00	4.50	2.38	20.00	2.31	3/4-10
VSM-449-W	449TC/TSC	31.00	4.50	2.38	25.00	2.31	3/4-10

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# NOISE & VIBRATION DAMPENING DEVICES

## 182TC THRU 256TC & 213UC THRU 256UC

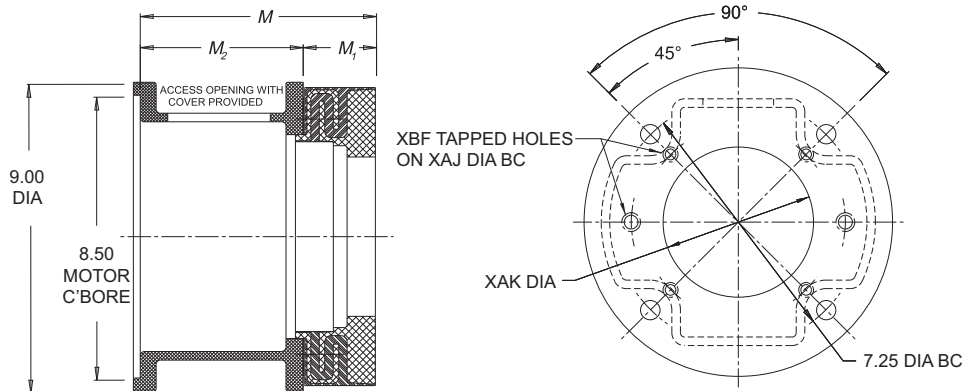
Dampening Flanges are designed to reduce the structure-borne and air-borne noise that is generated when the motor and pump are coupled together.

### Standard Features:

- Machined for mounting the motor and hydraulic pump
- Assures proper shaft alignment
- Average expected reduction of air-borne noise is 3 - 6 dBA

### Standard Materials:

- Aluminum casting mounted to a locked vulcanized dampening flange



**NOTE:** All dimensions are inches

### Dampening Flange D150

Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE A	2 Bolt	4.19	3.25	3/8-16	1.750	<b>D150-A2</b>

OVERALL Face to Face DIMENSION  $M = M_1 + M_2$

### Adapter For D150 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.
182/TC thru 256/TC	3.500	<b>182-L1</b>
	3.937	<b>182-L2</b>
	4.375	<b>182-L3</b>

M Face to Face
5.250
5.687
6.125

### Dampening Flange D190

Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE A	2 Bolt	4.19	3.25	3/8-16	1.750	<b>D190-A2</b>
SAE B	2 Bolt	5.75	4.00	1/2-13	1.750	<b>D190-B2</b>
SAE B	4 Bolt	5.00	4.00	1/2-13	1.750	<b>D190-B4</b>

OVERALL Face to Face DIMENSION  $M = M_1 + M_2$

### Adapter For D190 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.
182/TC thru 256/TC	3.500	<b>182-L1</b>
	3.812	<b>182-L2</b>
	4.375	<b>182-L3</b>

M Face to Face
5.250
5.562
6.125

### Dampening Flange D230

Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE B	2 Bolt	5.75	4.00	1/2-13	2.250	<b>D230-B2</b>
SAE B	4 Bolt	5.00	4.00	1/2-13	2.250	<b>D230-B4</b>
SAE C	2 Bolt	7.12	5.00	5/8-11	2.250	<b>D230-C2</b>
SAE C	4 Bolt	6.38	5.00	1/2-13	2.250	<b>D230-C4</b>

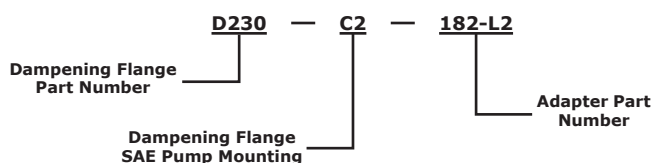
OVERALL Face to Face DIMENSION  $M = M_1 + M_2$

### Adapter For D230 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.
182/TC thru 256/TC	3.500	<b>182-L1</b>
	3.937	<b>182-L2</b>
	4.375	<b>182-L3</b>

M Face to Face
5.750
6.187
6.625

### MODEL CODE - ORDERING INFORMATION FOR COMPLETE ASSEMBLY



If your required model or dampening flange is not known, or you wish to verify your selection, please provide LDI with the following information:

1. Motor HP with frame size
2. Pump manufacturer and complete model number
3. Pump weight
4. Coupling manufacturer and model

LDI will then select the correct assembly and provide you with a computer generated drawing for assembling the adapter and coupling

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# NOISE & VIBRATION DAMPENING DEVICES

## 284 THRU 286TC/TSC & 284 THRU 286UC/USC

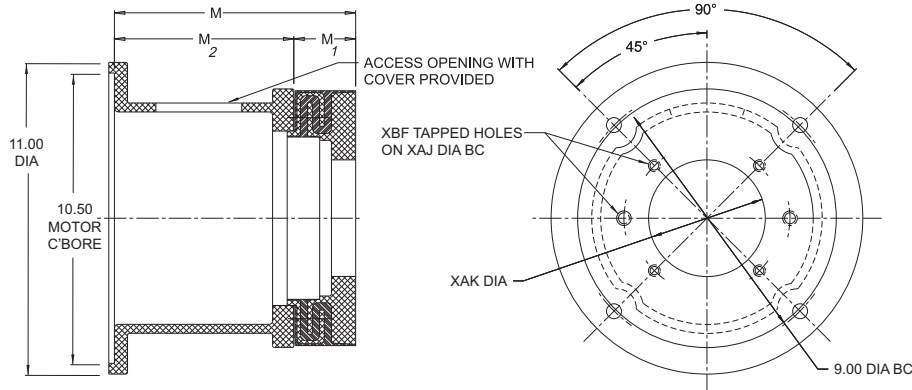
Dampening Flanges are designed to reduce the structure-borne and air-borne noise that is generated when the motor and pump are coupled together.

### Standard Features:

- Machined for mounting the motor and hydraulic pump
- Assures proper shaft alignment
- Average expected reduction of air-borne noise is 3 - 6 dBA

### Standard Materials:

- Aluminum casting mounted to a locked vulcanized dampening flange



**NOTE:** All dimensions are inches

### Dampening Flange D190

Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE A	2 Bolt	4.19	3.25	3/8-16	1.750	<b>D190-A2</b>
SAE B	2 Bolt	5.75	4.00	1/2-13	1.750	<b>D190-B2</b>
SAE B	4 Bolt	5.00	4.00	1/2-13	1.750	<b>D190-B4</b>

OVERALL Face to Face DIMENSION  $M = M_1 + M_2$

### Adapter For D190 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.	M Face to Face
	3.625	<b>284-L1</b>	5.375
	4.063	<b>284-L2</b>	5.812
	4.375	<b>284-L3</b>	6.125
	4.750	<b>284-L4</b>	6.500
284/TC/TSC thru 286/TC/TSC	5.063	<b>284-L5</b>	6.812
	5.375	<b>284-L6</b>	7.125
	5.750	<b>284-L7</b>	7.500
	6.437	<b>284-L8</b>	8.187
	6.750	<b>284-L9</b>	8.500
	7.000	<b>284-L10</b>	8.750

### Dampening Flange D230

Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE B	2 Bolt	5.75	4.00	1/2-13	2.250	<b>D230-B2</b>
SAE B	4 Bolt	5.00	4.00	1/2-13	2.250	<b>D230-B4</b>
SAE C	2 Bolt	7.12	5.00	5/8-11	2.250	<b>D230-C2</b>
SAE C	4 Bolt	6.38	5.00	1/2-13	2.250	<b>D230-C4</b>

OVERALL Face to Face DIMENSION  $M = M_1 + M_2$

### Adapter For D230 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.	M Face to Face
	3.625	<b>284-L1</b>	5.875
	4.063	<b>284-L2</b>	6.312
	4.375	<b>284-L3</b>	6.625
	4.750	<b>284-L4</b>	7.000
284/TC/TSC thru 286/TC/TSC	5.063	<b>284-L5</b>	7.312
	5.375	<b>284-L6</b>	7.625
	5.750	<b>284-L7</b>	8.000
	6.437	<b>284-L8</b>	8.687
	6.750	<b>284-L9</b>	9.000
	7.000	<b>284-L10</b>	9.250

### MODEL CODE - ORDERING INFORMATION FOR COMPLETE ASSEMBLY



LDI will then select the correct assembly and provide you with a computer generated drawing for assembling the adapter and coupling

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# NOISE & VIBRATION DAMPENING DEVICES

## 324 THRU 405TC/TSC & 324 THRU 405UC/USC

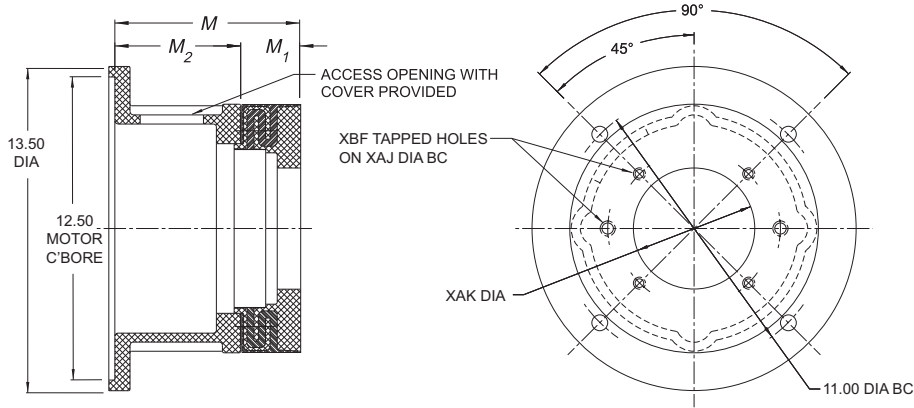
Dampening Flanges are designed to reduce the structure-borne and air-borne noise that is generated when the motor and pump are coupled together.

### Standard Features:

- Machined for mounting the motor and hydraulic pump
- Assures proper shaft alignment
- Average expected reduction of air-borne noise is 3 - 6 dBA

### Standard Materials:

- Aluminum casting mounted to a locked vulcanized dampening flange



**NOTE:** All dimensions are inches

### Dampening Flange D230

Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE B	2 Bolt	5.75	4.00	1/2-13	2.250	<b>D230-B2</b>
SAE B	4 Bolt	5.00	4.00	1/2-13	2.250	<b>D230-B4</b>
SAE C	2 Bolt	7.12	5.00	5/8-11	2.250	<b>D230-C2</b>
SAE C	4 Bolt	6.38	5.00	1/2-13	2.250	<b>D230-C4</b>

OVERALL Face to Face DIMENSION M = M<sub>1</sub> + M<sub>2</sub>

### Adapter For D230 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.	M Face to Face
324/TC/TSC thru 405/TC/TSC	3.812	<b>324-L1</b>	6.063
	4.563	<b>324-L2</b>	6.812
	5.187	<b>324-L3</b>	7.437
	5.875	<b>324-L4</b>	8.125
	6.250	<b>324-L5</b>	8.500
	6.375	<b>324-L6</b>	8.625
	7.125	<b>324-L7</b>	9.375
	7.375	<b>324-L8</b>	9.625
	8.125	<b>324-L9</b>	10.375

### Dampening Flange D260

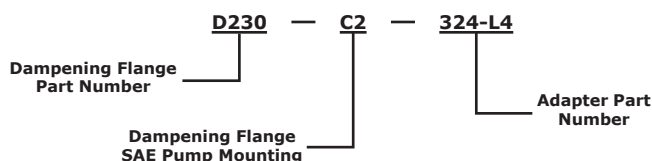
Pump Type	Pump Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Holes	M <sub>1</sub> Face to Face	Part No.
SAE B	2 Bolt	5.75	4.00	1/2-13	2.250	<b>D260-B2</b>
SAE B	4 Bolt	5.00	4.00	1/2-13	2.250	<b>D260-B4</b>
SAE C	2 Bolt	7.12	5.00	5/8-11	2.250	<b>D260-C2</b>
SAE C	4 Bolt	6.38	5.00	1/2-13	2.250	<b>D260-C4</b>
SAE D	2 Bolt	9.00	6.00	3/4-10	2.250	<b>D260-D2</b>
SAE D	4 Bolt	9.00	6.00	3/4-10	2.250	<b>D260-D4</b>

OVERALL Face to Face DIMENSION M = M<sub>1</sub> + M<sub>2</sub>

### Adapter For D260 Dampening Flange

Motor Frame Size	M <sub>2</sub> Face to Face	Part No.	M Face to Face
324/TC/TSC thru 405/TC/TSC	3.812	<b>324-L1</b>	6.063
	4.563	<b>324-L2</b>	6.812
	5.187	<b>324-L3</b>	7.437
	5.875	<b>324-L4</b>	8.125
	6.250	<b>324-L5</b>	8.500
	6.375	<b>324-L6</b>	8.625
	7.125	<b>324-L7</b>	9.375
	7.375	<b>324-L8</b>	9.625
	8.125	<b>324-L9</b>	10.375

### MODEL CODE - ORDERING INFORMATION FOR COMPLETE ASSEMBLY



LDI will then select the correct assembly and provide you with a computer generated drawing for assembling the adapter and coupling

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# NOISE & VIBRATION DAMPENING DEVICES

## VERTICAL DAMPENING RINGS

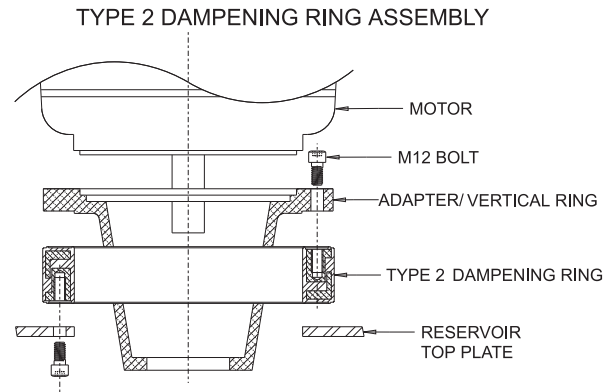
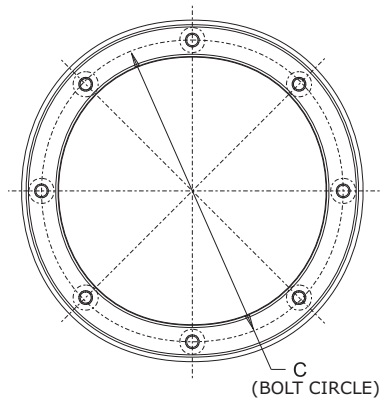
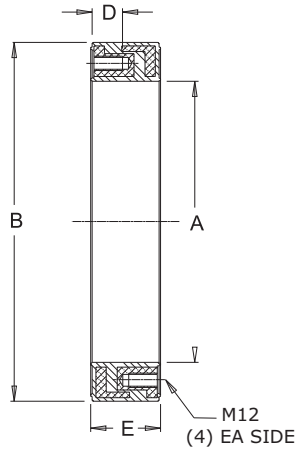
Vertical Dampening Rings are designed to reduce the noise between the motor and pump assembly and the mounting surface.

### Standard Features:

- Resistance to hydraulic fluid.
- Seals between the adapter and the mounting surface
- Average expected reduction of air-bore noise is 3 - 5 dBA
- Working temperature of 176° F (80° C)

### Standard Material:

- Locked vulcanized design



### Type 2 Dampening Ring Dimensional Data (inches)

Part No.	A inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)
A300	9.25 (235)	11.81 (300)	10.43 (265)	.70 (18)	2.20 (56)

### Vertical Mounting Gaskets - Adapter and Cutout Information

NEMA Motor Frame Size	Dampening Ring Part No.	Use with Adapter Style	Cutout Information
182TC to 256TC	A300	Vertical Style 6 Vertical Ring 268299	Requires a 9.12 inch diameter hole with (4) .563 inch diameter holes equally spaced on a 10.433 inch (265mm) diameter bolt circle

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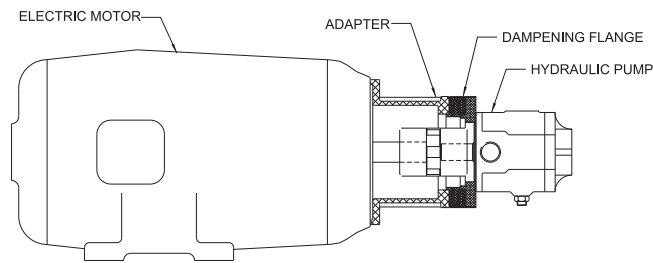
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# NOISE & VIBRATION DAMPENING DEVICES

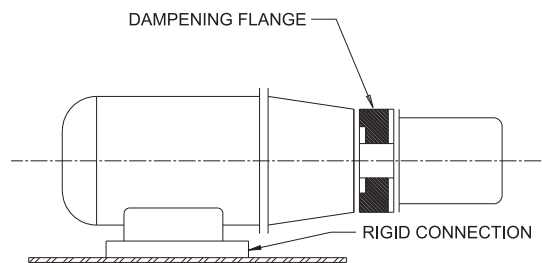
## DAMPENING OF STRUCTURE BORNE NOISE



Due to substantial investigations and measurements in practical operation, the following approximate values can be presumed:

1. **Pump motor adapter with dampening flange: 3 to 6 dB(A)**
2. **Dampening bar VSM: 3 to 4 dB(A)**
3. **Pump motor adapter with dampening flange and dampening bar VSM: 6 to 8 dB(A)**

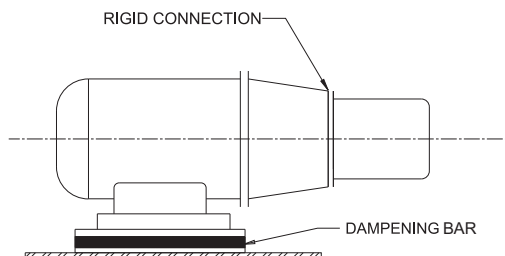
The maximum values can be achieved when it is possible to reduce the resonances in the power unit with the aid of a dampening element, these resonances might arise, because the main exiting frequency of the hydraulic pump corresponds to the natural frequency of machine parts with large surfaces.



### DAMPENING FLANGE

The flexible dampening flange renders possible and efficient structure-borne noise separation directly at the hydraulic pump.

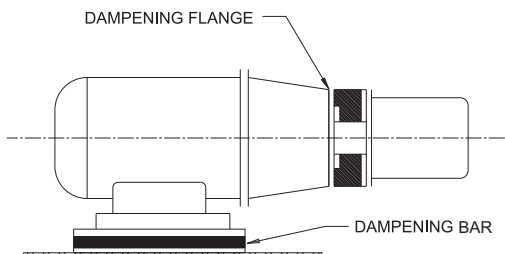
**Average expected reduction of airborne noise  
3 - 6 dB(A)**



### DAMPENING BAR

The flexible dampening bar prevents the transmission of structure-borne noise between pump/motor and aggregate.

**Average expected reduction of airborne noise  
3 - 4 dB(A)**



### DAMPENING FLANGE and DAMPENING BAR

Both dampening flanges and dampening bars render possible and optimum of structure-borne noise dampening of pump and motor.

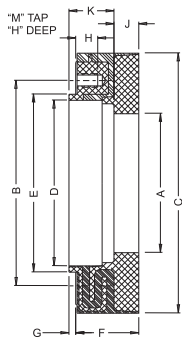
**Average expected reduction of airborne noise  
3 - 4 dB(A)**

# NOISE & VIBRATION DAMPENING DEVICES

## ABOUT THE DAMPENING FLANGE



- Locked vulcanized design - not bolted together
- High weight loading possible (with multiple pumps)
- Excellent dampening properties
- Excellent resistance against ozone and oil
- Integral sealing lip - no additional sealing required
- Fully machined to most SAE 2 & 4 bolt and ISO 2 & 4 bolt mounting flanges
- Easily bolts to LDI Dampening Flange Adapter
- Can be mounted horizontally or vertically
- Furnished as complete assembly only



Dimensional Data													
Dampening Flange	A		B	C	D	E	F	G	H	J	K	M	Max Clpg. O.D.
	Min	Max											
D150	USA4F17 32mm	SAE A 80mm	4.803 122mm	5.827 148mm	3.268 83mm	3.937 100mm	1.772 45mm	.236 6mm	.590 15mm	.629 16mm	1.377 35mm	M8	3.000
D190	SAE A 32mm	SAE B 112mm	5.906 150mm	7.480 190mm	4.567 116mm	5.119 130mm	1.772 45mm	.236 6mm	.590 15mm	.709 18mm	1.299 33mm	M10	4.375
D230	SAE B 100mm	SAE C 140mm	7.677 195mm	9.212 234mm	5.354 136mm	6.299 160mm	2.322 59mm	.236 6mm	.709 18mm	.906 23mm	1.653 42mm	M12	5.125
D260	SAE B 100mm	SAE D 160mm	8.268 210mm	10.394 264mm	6.142 156mm	7.087 180mm	2.322 59mm	.236 6mm	.787 20mm	.906 23mm	1.653 42mm	M16	6.000

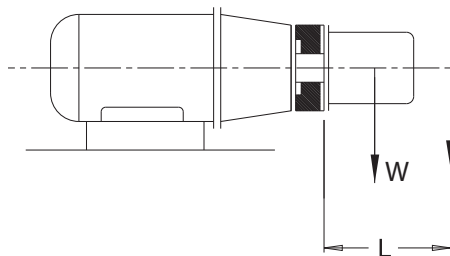
**NOTE:** Special pump and metric flanges also available - Consult factory.

## SELECTING A DAMPENING FLANGE

The first step in selecting a dampening flange is to insure that the torque required by your pump does not exceed the maximum rating of the dampening flange. The torque required by the pump is determined by the pump displacement and maximum operating pressure. This information is typically available from the pump Manufacturer's Website. Once this maximum torque is known, it cannot exceed the nominal torque rating of the dampening flange in the chart below. The maximum torque in the chart below is what the pump will require at start up but generally, this is not an issue. If in doubt, compare the motor torque at stall with the maximum torque in the chart. As long as the motor torque at stall is less than the maximum value in the chart, there should be no issues.

Dampening Flange Torque Ratings				
Load Types	Dampening Flange			
	D150	D190	D230	D260
Nominal Torque Rating (lb in)	638	4425	7080	9956
Maximum Torque Rating (lb in)	2213	13275	21240	29869

## DAMPENING FLANGE FOR A HORIZONTAL INSTALLATION



To select the proper dampening flange for your application, you will need to know the weight of your pump and the distance from the mounting flange to the location of the pump weight (center of gravity). This information is available from the pump Manufacturer.

If the location of the center of gravity is not known, a reasonable approximation can be determined by assuming it is 2/3 the total length of the pump from the mounting flange.

The maximum pump weight for each of the dampening flanges is given in the chart at the top of the following page. Also in the chart is the maximum distance from the mounting flange that the maximum pump weight can be located at. As the distance to the center of gravity of the pump goes beyond the maximum distance in the chart, the allowable weight of the pump decreases. Note that even if the distance to the center of gravity of the pump is LESS than shown in the chart, the maximum weight of the pump cannot exceed that shown in the chart.

# NOISE & VIBRATION DAMPENING DEVICES

## DAMPENING FLANGE FOR A HORIZONTAL INSTALLATION (CONT'D)

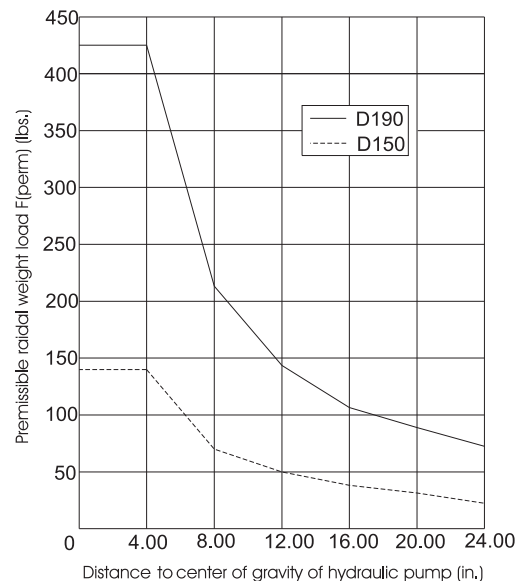
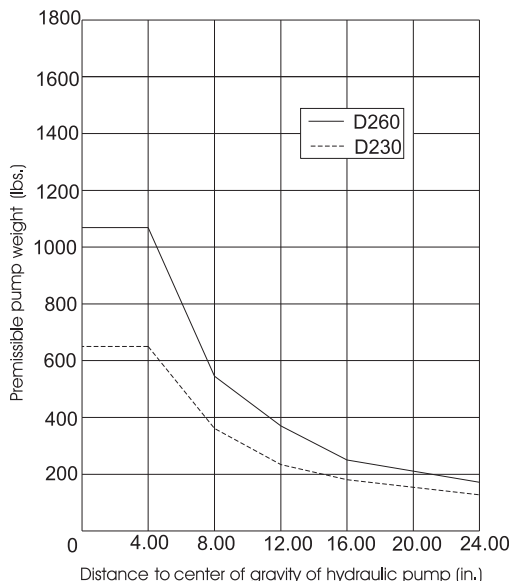
Also shown in the below chart is the maximum movement (weight multiplied by distance) that each of the dampening flanges is rated for. The chart at the top of the following page will quickly narrow down the choices of acceptable dampening flanges.

Maximum Pump Weight of Dampening Flanges for a Working Temperature of 140°F (60°C)				
	D150	D190	D230	D260
Distance to Pump Center of Gravity (in)	4.00	4.00	4.00	8.00
Pump Weight (lbs)	145	405	675	510
Maximum Moment (in-lbs)	580	1620	2700	4080

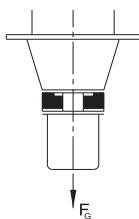
For other center distances  $L_x$  the permissible load may be calculated

If you choose to calculate whether or not your pump is acceptable for the dampening flange you have selected, simply take the weight of the pump and multiply it by the distance from the mounting flange to the pump's center of gravity (a moment) and compare it to the maximum moment listed in the chart. If your calculated moment does not exceed the moment in the chart, you have selected an appropriate dampening flange.

An alternate method of confirming your selection would be to use the appropriate graph below once you've tentatively selected a dampening flange. To do so, simply locate the curve on the graphs for your flange selection. Next, on the vertical axis, locate the weight of your pump and make a horizontal line. From where your horizontal line intersects the curve for your flange, draw a vertical line all the way to the bottom axis which is the maximum distance from the dampening flange that pump weight can be applied. Compare the distance to the center of gravity of your pump to that value. As long as the distance to the center of gravity of your pump is LESS than the distance shown where your vertical line meets the horizontal axis, your pump selection is valid.



## DAMPENING FLANGE FOR A VERTICAL INSTALLATION



If you are specifying a vertical system, you will need to know only the weight of your pump. You then compare it to the maximum allowable weight in the chart below.

Dampening Flange for Vertical Installation Information				
	Dampening Flange			
	D150	D190	D230	D260
Maximum Pump Weight (lb)	225	238	540	861

You are now ready to order your dampening flange from LDI Industries.

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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Pg RA-79

# PRESSURE GAGES

## VPG SERIES

Glycerine filled Pressure Gages provide added durability in applications where vibration or pulsation is present. Stainless Steel case and bezel, copper alloy internals. Available in both Lower and U-Clamp Panel Mount.

### Standard Features:

- 2.5 inch dial
- 1/4 inch NPT thread connection
- Glycerine filled
- Stainless Steel case and bezel
- Copper Alloy internals
- Polycarbonate lens
- Dual Scale -- PSI/Bar (x 100 = kPa)

### Ambient Temperature:

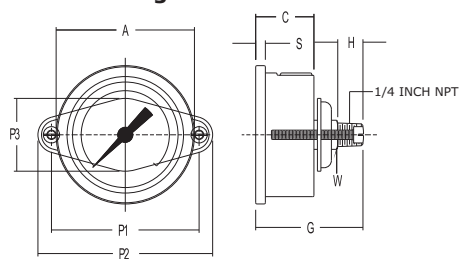
- 30°F to 160°F (-1°C to 71°C)

### Accuracy:

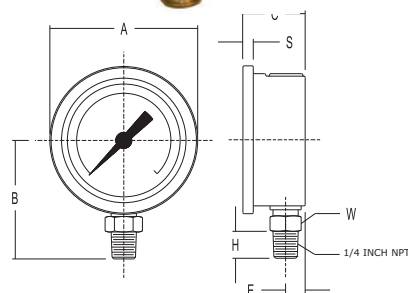
- 2-1-2% of span ASME B40.1 Grade A



2.50 inch Gage



Panel Mount



Stem Mount

VPG Series											
Dimensions	A*	B	C	S	W	E	G	H	P1	P2	P3
in	2.50	1.97	1.20	0.22	.563	0.39	2.12	0.51	2.83	3.84	1.50
mm	63.00	50.00	30.50	5.60	14.00	10.00	53.85	13.00	72.00	97.50	38.00

\*Nominal Size

## How to Order

VPG	25	N	1K	L
Type	Size	Thread Type	Standard Range	Mounting
Pressure Gage Liquid filled	25 = 2.50 (63 mm)	N=NPT	▲ 10=0-100 PSI 30=0-300 PSI 60=0-600 PSI 1K=0-1000 PSI 150=0-1500 PSI 2K=0-2000 PSI 3K=0-3000 PSI 5K=0-5000 PSI 6K=0-6000 PSI 10K=0-10000 PSI	B=Panel L=Stem
Options				
• Dial Face Artwork—2.50 inch • Special Liquid—Silicone • Glass Face—Resists solvents and abrasives				
Options requirements				
• 125 minimum order • 12 week lead time				
▲ - Stem Mount Only				

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 56C THRU 145TC & 182UC THRU 184UC

Pump Motor Adapters (Bell Housings) are designed to assure proper shaft alignment between the electric motor and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

- Drive coupling access hole with safety orange removable cover
- Electric Motor mounting bolts provided
- Pump mounting orientation can be rotated in 90 degree increments by rotating the adapter on the electric motor.
- Available for mounting your assembly horizontal and vertical with most adapter styles

### Standard Material:

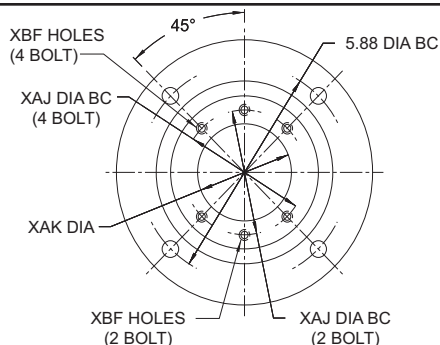
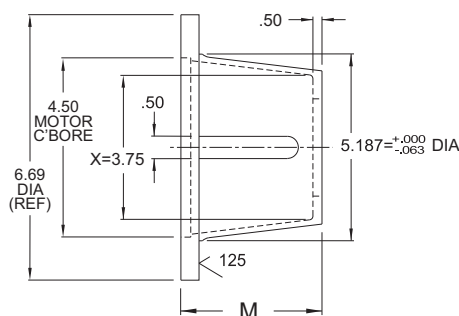
- Die and Cast Aluminum

### NOTES:

- X = Permissible inside radial clearance
- All dimensions are inches

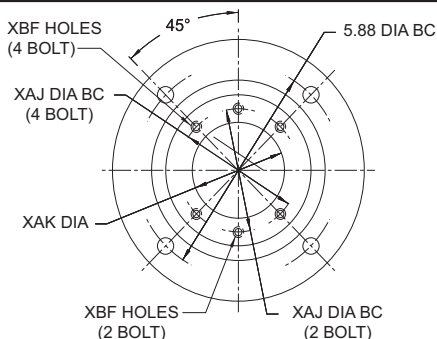
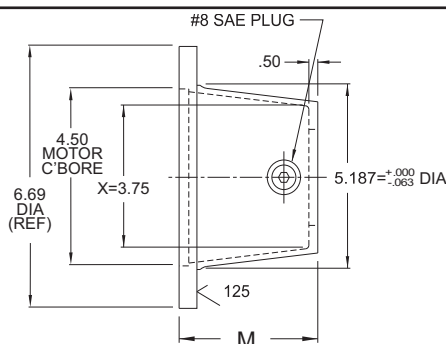
### WARNING:

- To avoid possible injury, access hole cover must be in place during operation



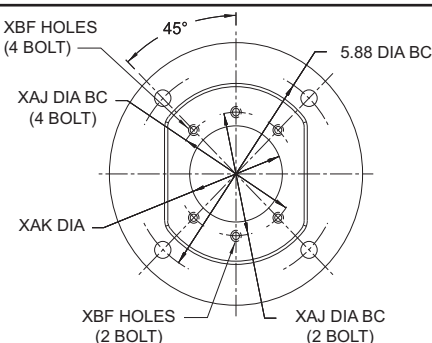
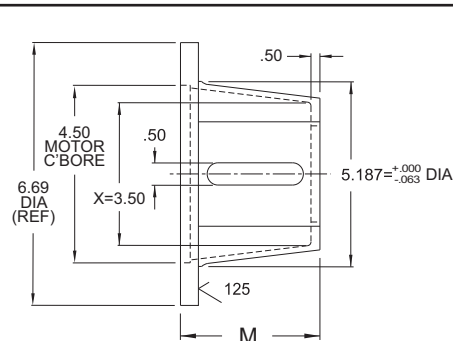
### STYLE 1 ADAPTER Horizontal/Vertical Mounting

**Note:** See page 98 for vertical mounting information & vertical mounting gasket



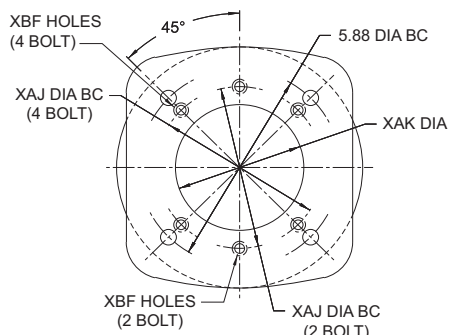
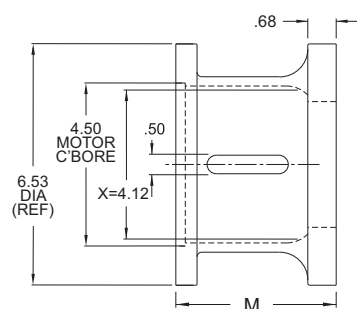
### STYLE 1A ADAPTER Horizontal/Vertical Mounting

**Note:** See page 98 for vertical mounting information & vertical mounting gasket



### STYLE 1B ADAPTER Horizontal/Vertical Mounting

**Note:** See page 98 for vertical mounting information & vertical mounting gasket



### STYLE 3 ADAPTER Horizontal Mounting Only

If your pump is not listed or is a non-standard pump, contact us for special machining and/or information. Not all pump mounting holes are supplied on every adapter. Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 56C THRU 145TC & 182UC THRU 184UC (CONT'D)

Motor Size	56C	143TC	145TC	182UC	184UC
HP/1800 RPM	1/4-1/2	1	2	1	1-1/2
Shaft Diameter	.62	.88	.88	.88	.88
Key Size	3/16	3/16	3/16	3/16	3/16
Shaft Length	2.06	2.12	2.12	2.12	2.12



Pump Mounts - 56C thru 145TC and 182UC thru 184UC									
Pump Type	Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes	Adapter Style	Mounting		M Face to Face	Part No.
Standard SAE Pump Flanges									
USA 4F17	4 Bolt	2.84	1.781	5/16-18	1	Yes	Yes	3.53	170599
					1A	Yes	Yes	3.50	6094
					1B	Yes	Yes	3.81	152199
					1	Yes	Yes	4.25	6029
					1A	Yes	Yes	4.25	6070
					1B	Yes	Yes	4.50	150199
SAE AA	2 Bolt	3.25	2.001	3/8-16	1	Yes	Yes	3.53	170699
					1A	Yes	Yes	3.50	6093
					1B	Yes	Yes	3.81	152299
					1	Yes	Yes	4.25	6027
					1B	Yes	Yes	4.50	150299
					1	Yes	Yes	5.00	171499
SAE A	2 Bolt	4.19	3.251	3/8-16	1A	Yes	Yes	3.50	6091
					1A	Yes	Yes	4.25	6071
SAE A	2 Bolt	4.19	3.251	3/8-16	1	Yes	Yes	3.53	170799*
					1B	Yes	Yes	3.81	152399
					1	Yes	Yes	4.25	6028*
					1B	Yes	Yes	4.50	150499
					1	Yes	Yes	5.00	6042
					1B	Yes	Yes	5.25	150599
SAE B	2 Bolt 4 Bolt	5.75 5.00	4.001	1/2-13	3	Yes	No	4.25	149199
					3	Yes	No	5.00	149799
					3	Yes	No	5.56	6085
SAE C	4 Bolt	6.38	5.001	1/2-13	3	Yes	No	5.56	6074
3 Bolt Mounting Flange									
3H	3 Bolt	2.75	2.121	1/4-20	1	Yes	Yes	4.25	6062
6 Bolt Mounting Flange									
6HB	6 Bolt	3.25	2.626	3/8-16	1	Yes	Yes	4.25	1948
Double A Pumps (BSM)									
14-42-PFG	4 Bolt	Spl. Mtg.	1.249	15/64 Dia.	1	Yes	Yes	4.25	1937
Metric Series 4 Bolt Flange									
R4M	4 Bolt	63mm	50.02mm	.312 Dia.	1	Yes	Yes	4.25	6075

\*Non-stock special order item  
\*NOTE: Also contains additional SAE-A 4 bolt mounting suitable for mounting SAE-A 45°

\*Non-stock special order item

\*NOTE: Also contains additional SAE-A 4 bolt mounting suitable for mounting SAE-A 45°

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 182TC THRU 256TC & 213UC THRU 256UC

Pump Motor Adapters (Bell Housings) are designed to assure proper shaft alignment between the electric motor and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

- Drive coupling access hole with safety orange removable cover
- Electric Motor mounting bolts provided
- Pump mounting orientation can be rotated in 90 degree increments by rotating the adapter on the electric motor
- Available for mounting your assembly horizontal and vertical with most adapter styles

### Standard Material:

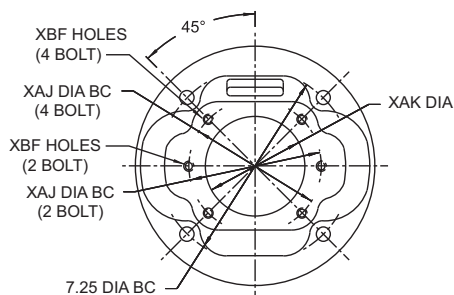
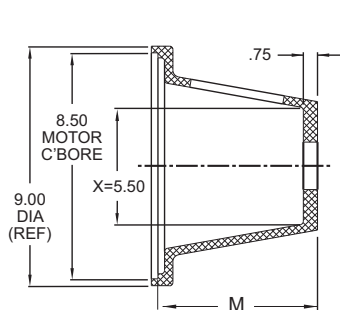
- Die and Cast Aluminum

### NOTES:

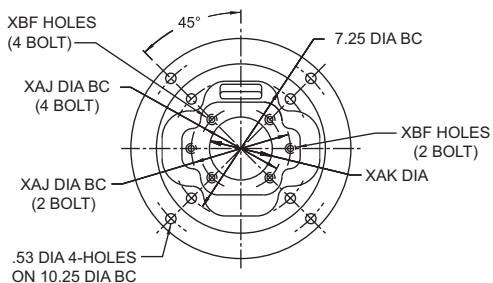
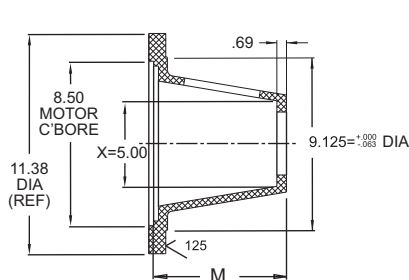
- X = Permissible inside radial clearance
- All dimensions are inches

### WARNING:

- To avoid possible injury, access hole cover must be in place during operation

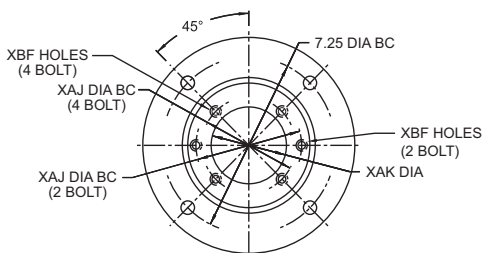
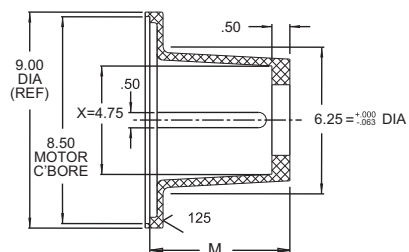


**STYLE 5 ADAPTER**  
Horizontal Mounting Only



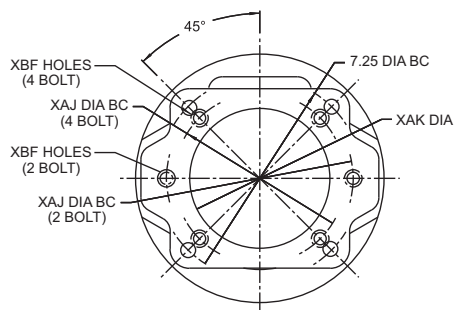
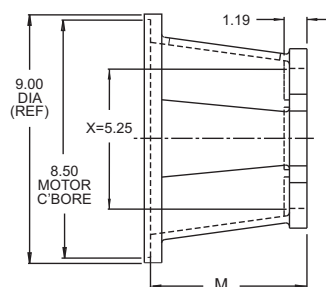
**STYLE 6 ADAPTER**  
Vertical Mounting Only

**Note:** See page 98 for vertical mounting information & vertical mounting gasket



**STYLE 7 ADAPTER**  
Horizontal/Vertical Mounting

**Note:** See page 98 for vertical mounting information & vertical mounting gasket



**STYLE 8 ADAPTER**  
Horizontal Mounting Only

If your pump is not listed or is a non-standard pump, contact us for special machining and/or information. Not all pump mounting holes are supplied on every adapter.

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 182TC THRU 256TC & 213UC THRU 256UC (CONT'D)

Motor Size	182TC	184TC	213TC	215TC	254TC	256TC	213UC	215UC	254UC	256UC
HP/1800 RPM	3	5	7-1/2	10	15	20	2	3	7-1/2	10
Shaft Diameter	1.12	1.12	1.38	1.38	1.6258	1.62	1.12	1.12	1.38	1.38
Key Size	1/4	1/4	5/16	5/16	3/8	3/8	1/4	1/4	5/16	5/16
Shaft Length	2.62	2.62	3.12	3.12	3.75	3.75	2.75	2.75	3.50	3.50



Pump Mounts - 182TC thru 256TC and 213UC thru 256UC									
Pump Type	Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes	Adapter Style	Mounting		M Face to Face	Part No.
						Horizontal	Vertical		
<b>Standard SAE Pump Flanges</b>									
USA 4F17	4 Bolt	2.84	1.781	5/16-18	7	Yes	Yes	4.63	<b>3371</b>
					7	Yes	Yes	5.00	<b>6033</b>
					6	No	Yes	5.00	<b>6053</b>
					5	Yes	No	5.81	<b>1965</b>
					7	Yes	Yes	5.88	<b>6037</b>
SAE AA	2 Bolt	3.25	2.001	3/8-16	7	Yes	Yes	4.38	<b>2196</b>
					7	Yes	Yes	4.63	<b>3373</b>
					5	Yes	No	5.00	<b>1994</b>
SAE AA	2 Bolt	3.25	2.001	3/8-16	7	Yes	Yes	5.00	<b>6031</b>
					7	Yes	Yes	5.25	<b>168299</b>
					7	Yes	Yes	5.44	<b>157299</b>
					6	No	Yes	5.75	<b>6057</b>
					7	Yes	Yes	5.88	<b>6035</b>
SAE A	2 Bolt	4.19	3.251	3/8-16	7	Yes	Yes	6.88	<b>6039*</b>
					7	Yes	Yes	4.38	<b>2198*</b>
					7	Yes	Yes	4.63	<b>6026*</b>
					5	Yes	No	5.00	<b>1960</b>
					7	Yes	Yes	5.00	<b>6030*</b>
					6	No	Yes	5.00	<b>6054</b>
					7	Yes	Yes	5.25	<b>168399*</b>
					7	Yes	Yes	5.44	<b>3364*</b>
					6	No	Yes	5.75	<b>6055</b>
					5	Yes	No	5.81	<b>1959</b>
					7	Yes	Yes	5.88	<b>6034*</b>
					8	Yes	No	6.38	<b>3365</b>
					5	Yes	No	6.81	<b>1950</b>
SAE B	2 Bolt 4 Bolt	5.75 5.00	4.001	1/2-13	6	No	Yes	6.81	<b>6058</b>
					7	Yes	Yes	6.88	<b>6038*</b>
					8	Yes	No	7.38	<b>3361</b>
					5	Yes	No	5.00	<b>1964</b>
					6	No	Yes	5.00	<b>6032</b>
					8	Yes	No	5.44	<b>254199</b>
					6	No	Yes	5.75	<b>6036</b>
					5	Yes	No	5.81	<b>1952</b>
SAE C	2 Bolt 4 Bolt	7.12 6.38	5.001	5/8-11 1/2-13	8	Yes	No	6.38	<b>254299</b>
					5	Yes	No	6.81	<b>1951</b>
					6	No	Yes	6.81	<b>6040</b>
					8	Yes	No	7.38	<b>254399</b>
SAE D	2 Bolt 4 Bolt	9.00	6.001	3/4-10	8	Yes	No	5.44	<b>1946</b>
					8	Yes	No	6.38	<b>1955</b>
					8	Yes	No	7.38	<b>1956</b>
					Steel	Yes	No	7.00	<b>1886</b>
					Steel	Yes	No	8.25	<b>1884</b>

\*Non-stock special order item

\*NOTE: Also contains additional SAE-A 4 bolt mounting suitable for mounting SAE-A 45°

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 182TC THRU 256TC & 213UC THRU 256UC (CONT'D)

Pump Mounts - 182TC thru 256TC and 213UC thru 256UC (CONT'D)									
Pump Type	Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes	Adapter Style	Mounting		M Face to Face	Part No.
SAE 2 Bolt 45° Offset Mounting Flange									
SAE B (45°)	2 Bolt	5.75	4.001	1/2-13	8	Yes	No	5.44	2116
					8	Yes	No	6.38	2117
					8	Yes	No	7.38	2118
SAE C (45°)	2 Bolt	7.12	5.001	5/8-11	8	Yes	No	6.38	2110
					8	Yes	No	7.38	2109
4 Bolt Square Mounting Flanges									
4HNA	4 Bolt	5.006	3.742	3/8-16	5	Yes	No	5.00	2108
4HV	4 Bolt	5.00	3.750	3/8-16	5	Yes	No	5.00	1943
Metric Series Pump Flanges									
80mm	4 Bolt	100mm	80.02mm	5/16-18	7	Yes	Yes	6.88	3366
80mm	2 Bolt 4 Bolt	109mm 103mm	80.02mm	3/8-16 5/16-18	8	Yes	No	6.38	2154 <sup>†</sup>
100mm	2 Bolt 4 Bolt	140mm 125mm	100.02mm	1/2-13 3/8-16	5	Yes	No	5.00	1878 <sup>†</sup>
					5	Yes	No	6.81	2156 <sup>†</sup>
125mm	2 Bolt 4 Bolt	180mm 160mm	125.02mm	5/8-11 1/2-13	8	Yes	No	6.38	2174
					8	Yes	No	7.38	2187 <sup>†</sup>
Metric Series 4 Bolt Flanges									
R4	4 Bolt	80mm	63.02mm	13/32 Dia	7	Yes	Yes	5.88	2183
*Non-stock special order item *NOTE: Also contains additional SAE-A 4 bolt mounting suitable for mounting SAE-A 45°									

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 284 THRU 286TC/TSC & 284 THRU 286UC/USC

Pump Motor Adapters (Bell Housings) are designed to assure proper shaft alignment between the electric motor and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

- Drive coupling access hole with safety orange removable cover
- Electric Motor mounting bolts provided
- Pump mounting orientation can be rotated in 90 degree increments by rotating the adapter on the electric motor

### Standard Material:

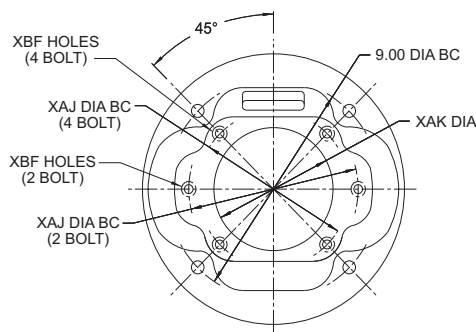
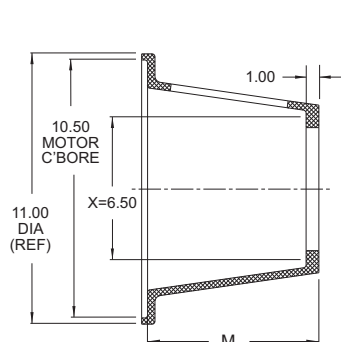
- Cast Aluminum

### NOTES:

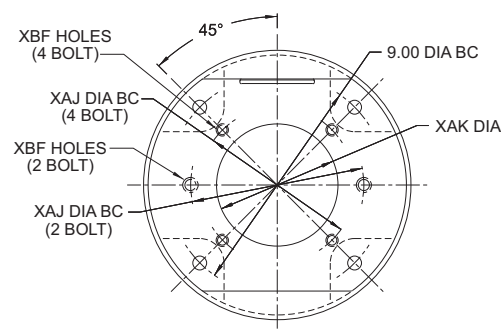
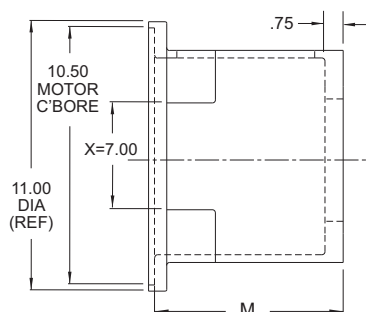
- X = Permissible inside radial clearance
- All dimensions are inches

### WARNING:

- To avoid possible injury, access hole cover must be in place during operation



**STYLE 11 ADAPTER**  
Horizontal Mounting Only



**STYLE 12 ADAPTER**  
Horizontal Mounting Only

If your pump is not listed or is a non-standard pump, contact us for special machining and/or information. Not all pump mounting holes are supplied on every adapter.

Motor Size	284TSC	286TSC	284TC	286TC	284UC	286USC
HP/1800 RPM	25	30	25	30	15	20
Shaft Diameter	1.62	1.62	1.88	1.88	1.62	1.62
Key Size	3/8	3/8	1/2	1/2	3/8	3/8
Shaft Length	3.00	3.00	4.38	4.38	4.62	4.62



Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 284 THRU 286TC/TSC & 284 THRU 286UC/USC (CONT'D)

Pump Mounts - 284 thru 286TC/TSC and 284 thru 286UC/USC									
Pump Type	Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes	Adapter Style	Mounting		M Face to Face	Part No.
Standard SAE Pump Flanges									
SAE A	2 Bolt	4.19	3.251	3/8-16	11	Yes	No	5.88	1851
					11	Yes	No	6.75	167199
					11	Yes	No	7.19	1975
					11	Yes	No	7.88	1852
					11	Yes	No	8.88	1978
SAE B	2 Bolt 4 Bolt	5.75 5.00	4.001	1/2-13	11	Yes	No	5.88	1853
					11	Yes	No	6.75	167299
					11	Yes	No	7.19	1979
					11	Yes	No	7.88	1854
					11	Yes	No	8.88	1980
SAE C	2 Bolt 4 Bolt	7.12 6.38	5.001	5/8-11 1/2-13	11	Yes	No	5.88	1855
					11	Yes	No	6.75	167399
					11	Yes	No	7.19	1981
					11	Yes	No	7.88	1856
					11	Yes	No	8.88	1982
SAE D	2 Bolt 4 Bolt	9.00	6.001	3/4-10	12	Yes	No	7.88	161699
SAE B (45°)	2 Bolt	5.75	4.001	1/2-13	11	Yes	No	7.19	1857
					11	Yes	No	7.88	181499
SAE C (45°)	2 Bolt	7.12	5.001	5/8-11	12	Yes	No	7.88	1858
4 Bolt Square Mounting Flanges									
4HC	4 Bolt	8.48	3.751	5/8-11	12	Yes	No	8.00	1887
Metric Series Pump Flanges									
125mm	2 Bolt 4 Bolt	180mm 160mm	125.02mm	5/8-11 1/2-13	11	Yes	No	7.88	3858
140mm	2 Bolt 4 Bolt	200mm 180mm	140.02mm	5/8-11	12	Yes	No	7.88	148399 <sup>+</sup>
*Non-stock special order item									

\*Non-stock special order item



# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 324 THRU 405TC/TSC & 324 THRU 405UC/USC

Pump Motor Adapters (Bell Housings) are designed to assure proper shaft alignment between the electric motor and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

- Drive coupling access hole with safety orange removable cover
- Electric Motor mounting bolts provided
- Pump mounting orientation can be rotated in 90 degree increments by rotating the adapter on the electric motor

### Standard Material:

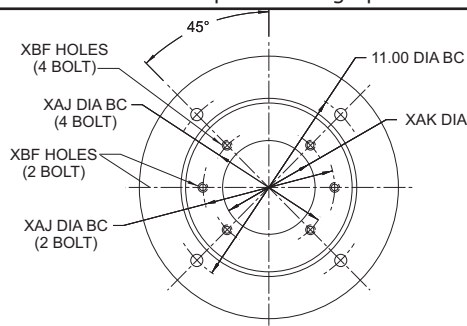
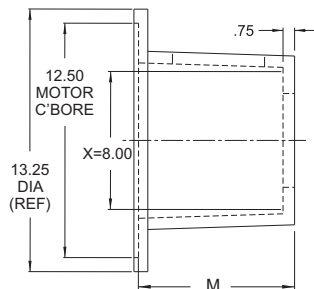
- Cast Aluminum

### NOTES:

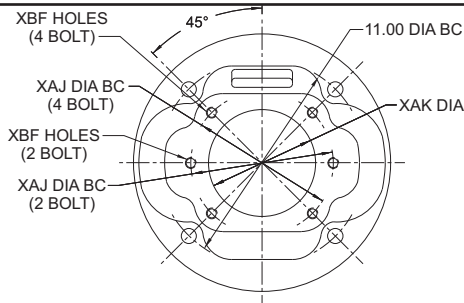
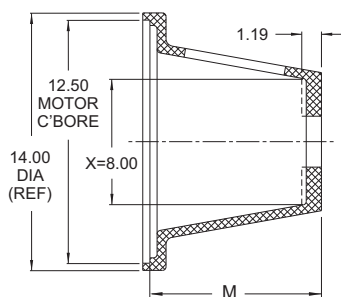
- X = Permissible inside radial clearance
- All dimensions are inches

### WARNING:

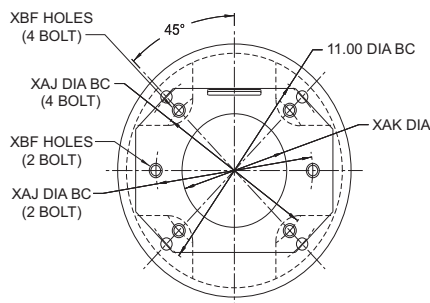
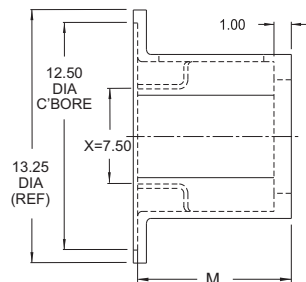
- To avoid possible injury, access hole cover must be in place during operation



**STYLE 13 ADAPTER**  
Horizontal Mounting Only



**STYLE 14 ADAPTER**  
Horizontal Mounting Only



**STYLE 16 ADAPTER**  
Horizontal Mounting Only

If your pump is not listed or is a non-standard pump, contact us for special machining and/or information. Not all pump mounting holes are supplied on every adapter.



Motor Size	324/326				364/365				404/405			
	TSC	TC	USC	UC	TSC	TC	USC	UC	TSC	TC	USC	UC
HP/1800 RPM	40/50	40/50	25/30	25/830	60/75	60/75	40/50	40/50	100/125	100/125	60/75	60/75
Shaft Diameter	1.88	2.12	6.25	1.88	1.88	2.38	1.88	2.125	2.12	2.88	2.12	2.38
Key Size	1/2	1/2	3/8	1/2	1/2	5/8	1/2	1/2	1/2	3/4	1/2	5/8
Shaft Length	3.50	5.00	3.00	5.38	3.50	5.62	3.50	6.125	4.00	7.00	4.00	6.88

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 324 THRU 405TC/TSC & 324 THRU 405UC/USC (CONT'D)

Pump Mounts - 324 thru 405TC/TSC and 324 thru 405UC/USC									
Pump Type	Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes	Adapter Style	Mounting		M Face to Face	Part No.
Standard SAE Pump Flanges									
SAE B	2 Bolt 4 Bolt	5.75 5.00	4.001	1/2-13	13	Yes	No	6.30	260199
					14	Yes	No	7.68	1974
					14	Yes	No	8.88	1969
					13	Yes	No	9.88	260599
SAE C	2 Bolt 4 Bolt	7.12 6.38	5.001	5/8-11 1/2-13	13	Yes	No	6.30	260399
					14	Yes	No	7.68	1984
					13	Yes	No	8.38	168799
					14	Yes	No	8.88	1983
					13	Yes	No	9.88	260799
SAE D	2 Bolt	9.00	6.001	3/4-10	14	Yes	No	7.68	1986
					14	Yes	No	8.88	1985
SAE D	2 Bolt 4 Bolt	9.00	6.001	3/4-10	16	Yes	No	7.68	3370
					16	Yes	No	8.38	234299
					16	Yes	No	8.75	1883
					16	Yes	No	8.88	3372
					16	Yes	No	9.63	235099
SAE 2 Bolt 45° Offset Mounting Flange									
SAE B (45°)	2 Bolt	5.75	4.001	1/2-13	14	Yes	No	7.68	2133
					14	Yes	No	8.88	2191
SAE C (45°)	2 Bolt	7.12	5.001	5/8-11	14	Yes	No	7.68	2119
					14	Yes	No	8.88	2120
					13	Yes	No	9.88	2121
4 Bolt Square Mounting Flanges									
4HC	4 Bolt	8.48	3.751	5/8-11	14	Yes	No	7.68	1999
					14	Yes	No	8.88	1949

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## 444 THRU 445TSC/TC/USC/UC & 447 THRU 449TSC/TC

Pump Motor Adapters (Bell Housings) are designed to assure proper shaft alignment between the electric motor and your hydraulic pump. They also reduce assembly cost over using a foot mounting bracket or riser.

### Standard Features:

- Drive coupling access hole with safety orange removable cover
- Electric Motor mounting bolts provided
- Pump mounting orientation can be rotated in 90 degree increments by rotating the adapter on the electric motor

### Standard Material:

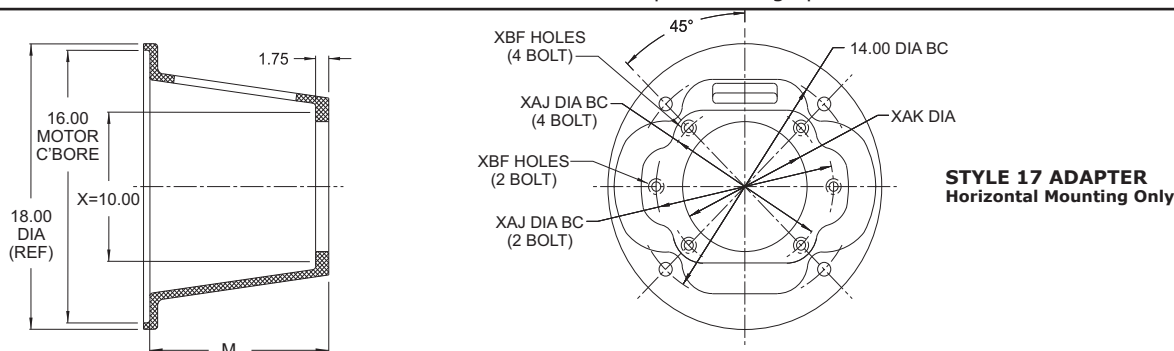
- Cast Aluminum

### NOTES:

- X = Permissible inside radial clearance
- All dimensions are inches

### WARNING:

- To avoid possible injury, access hole cover must be in place during operation



If your pump is not listed or is a non-standard pump, contact us for special machining and/or information. Not all pump mounting holes are supplied on every adapter.



Motor Size	444/445TSC	444/445TC	447/449TSC	447/449TC	444/445USC	444/445UC
HP/1800 RPM	150/200	150/200	250/300	250/300	75/100	75/100
Shaft Diameter	2.38	3.38	2.38	3.38	2.12	2.88
Key Size	5/8	7/8	5/8	7/8	1/2	3/4
Shaft Length	4.50	8.25	4.50	8.25	4.00	8.38

Pump Mounts - 444 thru 445TSC/TC/USC/UB & 447 thru 449TSC/TC									
Pump Type	Flange	XAJ Bolt Circle	XAK Pump Pilot	XBF Mounting Holes	Adapter Style	Mounting		M Face to Face	Part No.
Standard SAE Pump Flanges									
SAE C	2 Bolt	7.120	5.001	5/8-11	17	Yes	No	8.88	1880
SAE D	2 Bolt 4 Bolt	9.000	6.001	3/4-10	17	Yes	No	8.88	1881
					17	Yes	No	9.75	197499

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## ANSI PUMP/MOTOR SHAFT INFORMATION

Shaft ID Code	Shaft Diameter	Short Shaft Length	Long Shaft Length	Key Width	*SAE Ref.
13-1	.50	.75	—	.12	A-A
16-1	.62	.94	2.00	.16	A
22-1	.88	1.31	2.50	.25	B
25-1	1.00	1.50	2.75	.25	B-B
32-1	1.25	1.88	3.00	.31	C
38-1	1.50	2.12	3.25	.38	C-C
44-1	1.75	2.62	3.62	.44	D, E

\*Reference letters indicate the matching SAE front flange for each diameter

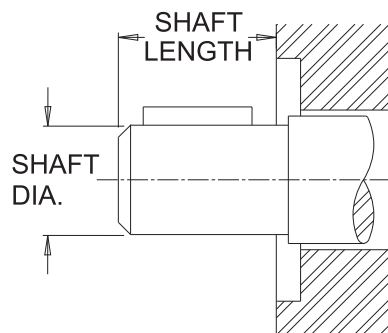
Shaft ID Code	Shaft Diameter	STR. Shaft Length	Thread Length	Thread Width	Key Width
13-2	.50	.75	.56	3/8-24	.12
16-2	.62	.94	.72	1/2-20	.16
22-2	.88	1.31	.91	5/8-18	.25
25-2	1.00	1.50	1.06	3/4-16	.25
32-2	1.25	1.88	1.22	1-12	.31
38-2	1.50	2.12	1.38	1 1/8-12	.38
44-2	1.75	2.62	1.56	1 1/4-12	.44

Shaft ID Code	Shaft Diameter	Tapered Shaft Length	Thread Length	Thread Width	Key Width
13-3	.50	.69	.50	5/16-32	.12
16-3	.62	.69	.72	1/2-20	.16
22-3	.88	1.12	.91	5/8-18	.25
25-3	1.00	1.38	1.06	3/4-16	.25
32-3	1.25	1.38	1.22	1-12	.31
38-3	1.50	1.88	1.38	1 1/8-12	.38
44-3	1.75	2.12	1.56	1 1/4-12	.44
50-3	2.00	2.88	1.56	1 1/4-12	.50

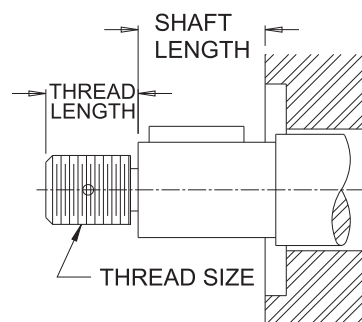
Shaft ID Code	Shaft Diameter	Shaft Length	Spline Specifications	*SAE Ref.
13-4	.50	.75	9T, 20/40 DP	A-A
16-4	.62	.94	9T, 16/32 DP	A
22-4	.88	1.31	13T, 16/32 DP	B
25-4	1.00	1.50	15T, 16/32 DP	B-B
32-4	1.25	1.88	14T, 12/24 DP	C
38-4	1.50	2.12	17T, 12/24 DP	C-C
44-4	1.75	2.62	13T, 8/16 DP	D, E
50-4	2.00	3.12	15T, 8/16 DP	F

\*Reference letters indicate the matching SAE front flange for each diameter

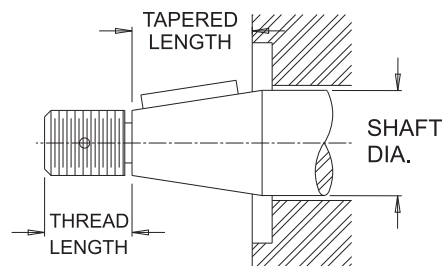
### Straight Shaft (without threads)



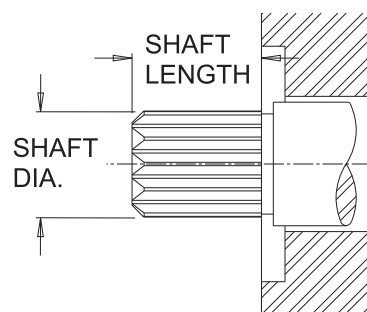
### Straight Shaft (with threads)



### Tapered Shaft (with threads)



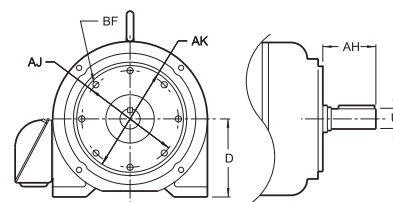
### 30° Involute Spline



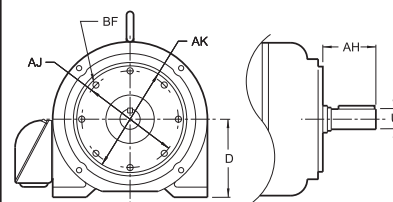
# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## STANDARD NEMA "C" FACE ELECTRIC MOTOR DIMENSIONS

"T" Frame Electric Motor Data										
Nema Motor	Frames	Bolt Circle AJ	Register AK	Shaft Diameter U	Shaft Length AH	Key Sq	Key Length	BF (Tapped Holes)		D Max
	56C	5 7/8	4 1/2	5/8	2 1/16	3/16	1	3/8-16	4	3 1/2
	143TC	5 7/8	4 1/2	7/8	2 1/8	3/16	1 3/8	3/8-16	4	3 1/2
	145TC	5 7/8	4 1/2	7/8	2 1/8	3/16	1 3/8	3/8-16	4	3 1/2
	182TC	7 1/4	8 1/2	1 1/8	2 5/8	1/4	1 3/4	1/2-13	4	4 1/2
	184TC	7 1/4	8 1/2	1 1/8	2 5/8	1/4	1 3/4	1/2-13	4	4 1/2
	213TC	7 1/4	8 1/2	1 3/8	3 1/8	5/16	2 3/8	1/2-13	4	5 1/4
	215TC	7 1/4	8 1/2	1 3/8	3 1/8	5/16	2 3/8	1/2-13	4	5 1/4
	254TC	7 1/4	8 1/2	1 5/8	3 3/4	3/8	2 7/8	1/2-13	4	6 1/4
	256TC	7 1/4	8 1/2	1 5/8	3 3/4	3/8	2 7/8	1/2-13	4	6 1/4
284TSC	284TC	9	10 1/2	1 7/8	4 3/8	1/2	3 1/4	1/2-13	4	7
		9	10 1/2	1 5/8	3	3/8	1 7/8	1/2-13	4	7
286TSC	286TC	9	10 1/2	1 7/8	4 3/8	1/2	3 1/4	1/2-13	4	7
		9	10 1/2	1 5/8	3	3/8	1 7/8	1/2-13	4	7
324TSC	324TC	11	12 1/2	2 1/8	5	1/2	3 7/8	5/8-11	4	8
		11	12 1/2	1 7/8	3 1/2	1/2	2	5/8-11	4	8
326TSC	326TC	11	12 1/2	2 1/8	5	1/2	3 7/8	5/8-11	4	8
		11	12 1/2	1 7/8	3 1/2	1/2	2	5/8-11	4	8
364TSC	364TC	11	12 1/2	2 3/8	5 5/8	5/8	4 1/4	5/8-11	8	9
		11	12 1/2	1 7/8	3 1/2	1/2	2	5/8-11	8	9
365TSC	365TC	11	12 1/2	2 3/8	5 5/8	5/8	4 1/4	5/8-11	8	9
		11	12 1/2	1 7/8	3 1/2	1/2	2	5/8-11	8	9
404TSC	404TC	11	12 1/2	2 7/8	7	3/4	5 5/8	5/8-11	8	10
		11	12 1/2	2 1/8	4	1/2	2 3/4	5/8-11	8	10
405TSC	405TC	11	12 1/2	2 7/8	7	3/4	5 5/8	5/8-11	8	10
		11	12 1/2	2 1/8	4	1/2	2 3/4	5/8-11	8	10
444TSC	444TC	14	16	3 3/8	8 1/4	7/8	7	5/8-11	8	11
		14	16	2 3/8	4 1/2	5/8	3	5/8-11	8	11
445TSC	445TC	14	16	3 3/8	8 1/4	7/8	7	5/8-11	8	11
		14	16	2 3/8	4 1/2	5/8	3	5/8-11	8	11
447TSC	447TC	14	16	3 3/8	8 1/4	7/8	7	5/8-11	8	11
		14	16	2 3/8	4 1/2	5/8	3	5/8-11	8	11
449TSC	449TC	14	16	3 3/8	8 1/4	7/8	7	5/8-11	8	11
		14	16	2 3/8	4 1/2	5/8	3	5/8-11	8	11



"U" Frame Electric Motor Data										
Nema Motor	Frames	Bolt Circle AJ	Register AK	Shaft Diameter U	Shaft Length AH	Key Sq	Key Length	BF (Tapped Holes)		D Max
	182UC	5 7/8	4 1/2	7/8	2 1/8	3/16	1 3/8	3/8-16	4	4 1/2
	184UC	5 7/8	4 1/2	7/8	2 1/8	3/16	1 3/8	3/8-16	4	4 1/2
	213UC	7 1/4	8 1/2	1 1/8	2 3/4	1/4	1 7/8	1/2-13	4	5 1/4
	215UC	7 1/4	8 1/2	1 1/8	2 3/4	1/4	1 7/8	1/2-13	4	5 1/4
	254UC	7 1/4	8 1/2	1 3/8	3 1/2	5/16	2 3/4	1/2-13	4	6 1/4
	256UC	7 1/4	8 1/2	1 3/8	3 1/2	5/16	2 3/4	1/2-13	4	6 1/4
284UC	284UC	9	10 1/2	1 5/8	4 5/8	3/8	3 3/4	1/2-13	4	7
	286UC	9	10 1/2	1 5/8	4 5/8	3/8	3 3/4	1/2-13	4	7
324UC	324UC	11	12 1/2	1 7/8	5 3/8	1/2	4 1/4	5/8-11	4	8
		11	12 1/2	1 5/8	3	3/8	1 7/8	5/8-11	4	8
326UC	326UC	11	12 1/2	1 7/8	5 3/8	1/2	4 1/4	5/8-11	4	8
		11	12 1/2	1 5/8	3	3/8	1 7/8	5/8-11	4	8
364UC	364UC	11	12 1/2	2 1/8	6 1/8	1/2	5	5/8-11	8	9
		11	12 1/2	1 7/8	3 1/2	1/2	2	5/8-11	8	9
365UC	365UC	11	12 1/2	2 1/8	6 1/8	1/2	5	5/8-11	8	9
		11	12 1/2	1 7/8	3 1/2	1/2	2	5/8-11	8	9
404UC	404UC	11	12 1/2	2 3/8	6 7/8	5/8	5 1/2	5/8-11	8	10
		11	12 1/2	2 1/8	4	1/2	2 3/4	5/8-11	8	10
405UC	405UC	11	12 1/2	2 3/8	6 7/8	5/8	5 1/2	5/8-11	8	10
		11	12 1/2	2 1/8	4	1/2	2 3/4	5/8-11	8	10
444UC	444UC	14	16	2 7/8	8 3/8	3/4	7	5/8-11	8	11
		14	16	2 1/8	4	1/2	2 3/4	5/8-11	8	11
445UC	445UC	14	16	2 7/8	8 3/8	3/4	7	5/8-11	8	11
		14	16	2 1/8	4	1/2	2 3/4	5/8-11	8	11



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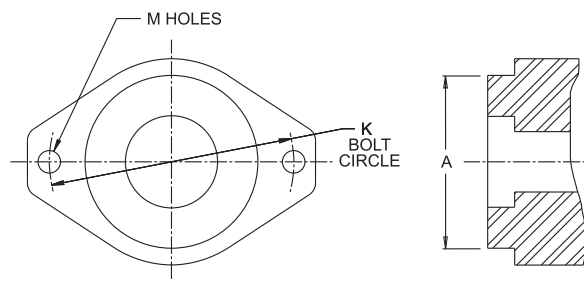


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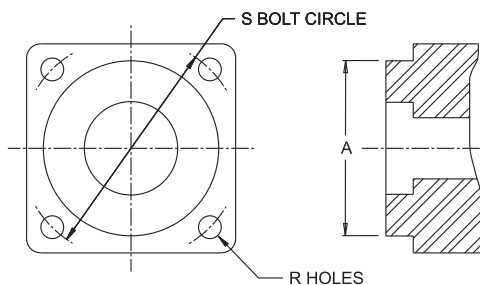
# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## PUMP MOUNTING FLANGE INFORMATION

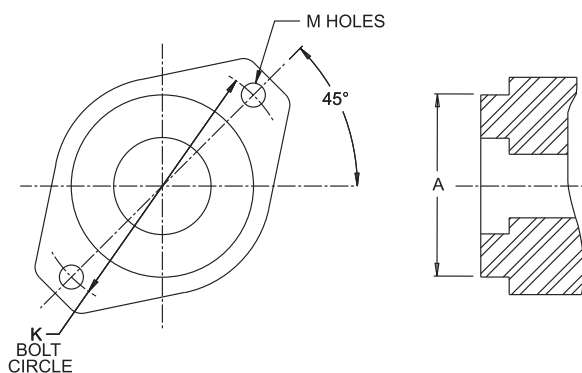
### SAE FLANGES



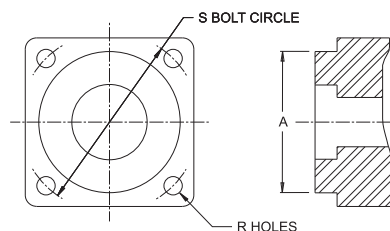
SAE 2 Bolt Mounting Flange					
Mounting Flange			Pilot Dimensions	Flange Dimensions	
ANSI	USA	SAE	A	K	M
50-2	-	AA	2.000/1.998	3.255 3.245	0.406
82-2	2F32	A	3.250/3.248	4.192 4.182	0.438
101-2	2F40	B	4.000/3.998	5.755 5.745	0.562
127-2	2F50	C	5.000/4.998	7.130 7.120	0.687
152-2	2F60	D	6.000/5.998	9.005 8.995	0.812
165-2	2F65	E	6.500/6.498	12.503 12.495	1.062
177-2	2F70	F	7.000/6.998	13.786 13.776	1.062



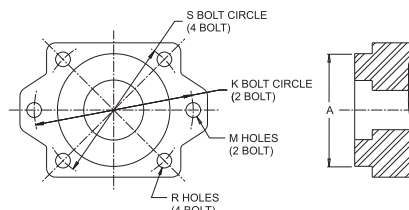
SAE 4 Bolt Mounting Flange					
Mounting Flange			Pilot Dimensions	Flange Dimensions	
ANSI	USA	SAE	A	S	R
-	4F17	-	1.781/1.799	2.843 2.833	0.375
-	-	A	3.250/3.248	4.130 4.120	0.438
101-4	4F40	B	4.000/3.998	5.005 4.995	0.562
127-4	4F50	C	5.000/4.998	6.380 6.370	0.562
152-4	4F60	D	6.000/5.998	9.005 8.995	0.812
165-4	4F65	E	6.500/6.498	12.505 12.495	0.812
177-4	4F70	F	7.000/6.998	13.786 13.776	1.062



SAE 2 Bolt 45° Offset Mounting Flange					
Mounting Flange			Pilot Dimensions	Flange Dimensions	
ANSI	USA	SAE	A	K	M
50-2 (45°)	-	AA (45°)	2.000/1.998	3.255 3.245	0.406
82-2 (45°)	2F32	A (45°)	3.250/3.248	4.192 4.182	0.438
101-2 (45°)	2F40	B (45°)	4.000/3.998	5.755 5.745	0.562
127-2 (45°)	2F50	C (45°)	5.000/4.998	7.130 7.125	0.687



SAE 4 Bolt Mounting Flange (Modified)			
Mounting Flange	Pilot Dimensions A	Flange Dimensions	
		S	R
4BM	4.000/3.998	5.005 4.995	0.438 0.433



SAE 2 and 4 Bolt "B" with "A" Pilot					
Mounting Flange	Pilot Dimensions A	Flange Dimensions 2 Bolt		Flange Dimensions 4 Bolt	
		K	M	S	R
SAE BA	3.250/3.248	5.755 5.745	0.562	5.005 4.995	0.562

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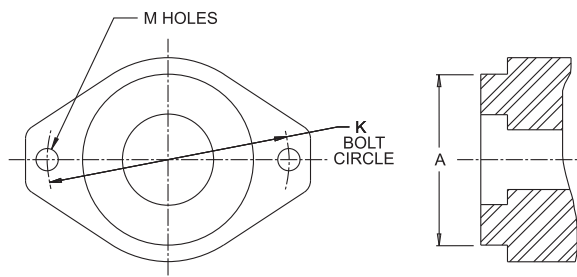
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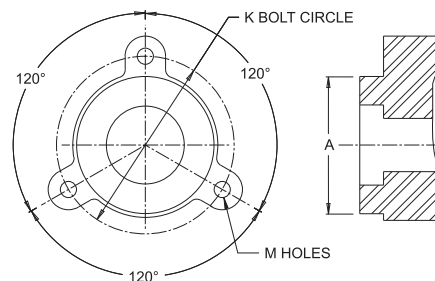
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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

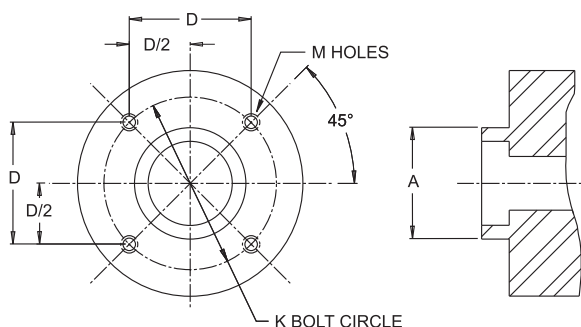
## SAE FLANGES



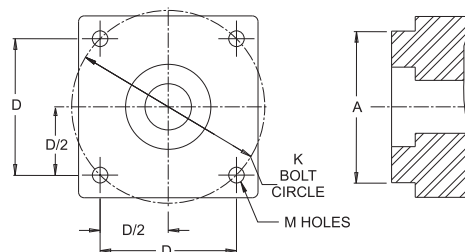
2 Bolt Special Mounting Flange			
Mounting Flange	Pilot Dimensions A	Flange Dimensions	
		K	M
2H	2.000/1.998	4.192 4.182	0.438



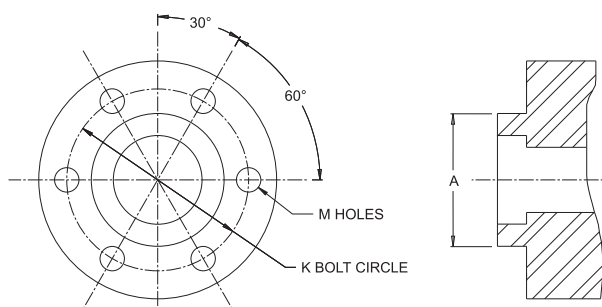
3 Bolt Mounting Flange			
Mounting Flange	Pilot Dimensions A	Flange Dimensions	
		K	M
3H	2.125/2.123	2.755 2.745	0.281



4 Bolt Round Mounting Flange				
Mounting Flange	Pilot Dimensions A	Flange Dimensions		
		D	M	K
4RB	1.627/1.625	1.727 1.717	1/4-20NC	2.435



4 Bolt Square Mounting Flanges				
Mounting Flange	Pilot Dimensions A	Flange Dimensions		
		D	M	K
4HC	3.750/3.748	6.005 5.995	0.687	8.485
4HNA	3.741/3.739	3.545 3.535	0.438	5.006
4HNB	5.315/5.313	4.895 4.875	0.531	6.901
4HV	3.749/3.747	3.541 3.531	0.438	5.000



6 Bolt Mounting Flange			
Mounting Flange	Pilot Dimensions A	Flange Dimensions	
		K	M
6HA	2.625/2.623	3.255 3.245	3/8-16NC
6HB	2.625/2.623	3.255 3.245	0.438
6HC	2.247/2.246	2.879 2.869	3/8-16NC
6HD	2.999/2.998	4.755 4.745	3/8-16NC

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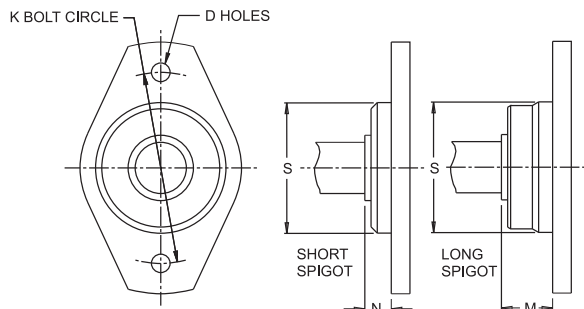
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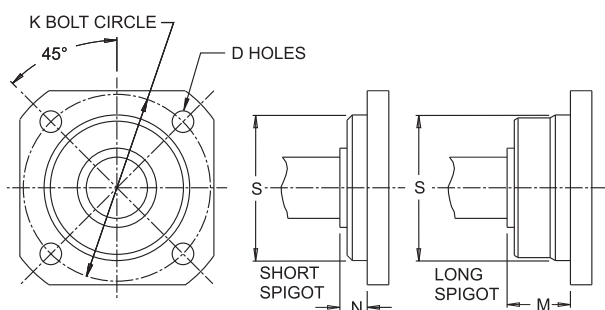
# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## METRIC FLANGES



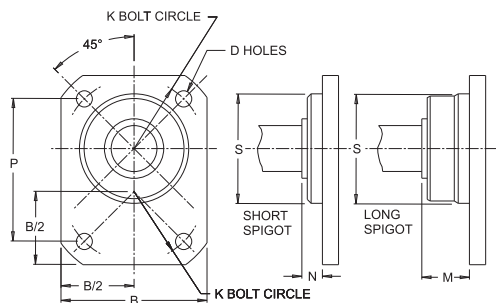
**Metric 2-Bolt Mounting Flanges (Oval)**

Mounting Flange	Metric Code	Spigot Diameter S	Flange Dimensions (all dimensions in mm)				Series
			K	D	M	N	
32	A2	32	56	6.6	16	8	PREF
40	A2	40	63	6.6	16	8	PREF
50	A2	50	80	9	20	8	PREF
63	A2	63	100	9	20	8	PREF
80	A2	80	109	11	20	8	PREF
100	A2	100	140	14	25	10	PREF
112	A2	112	160	14	25	10	NON-PREF
125	A2	125	180	18	32	10	PREF
140	A2	140	200	18	32	10	NON-PREF
160	A2	160	224	22	40	10	PREF
180	A2	180	250	22	40	10	NON-PREF
200	A2	200	280	26	50	10	PREF



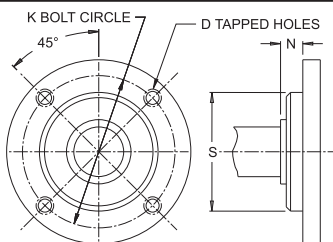
**Metric 4-Bolt Mounting Flanges (Square)**

Mounting Flange	Metric Code	Spigot Diameter S	Flange Dimensions (all dimensions in mm)				Series
			K	D	M	N	
63	B4	63	85	9	20	8	PREF
80	B4	80	103	9	20	8	PREF
80	Non-Code	80	100	9	20	8	NON-PREF
100	B4	100	125	11	25	10	PREF
112	B4	112	140	11	25	10	NON-PREF
125	B4	125	160	14	32	10	PREF
140	B4	140	180	14	32	10	NON-PREF
160	B4	160	200	18	40	10	PREF
180	B4	180	224	18	40	10	NON-PREF
200	B4	200	250	22	50	10	PREF
224	B4	224	280	22	50	10	NON-PREF
250	B4	250	315	26	50	10	PREF



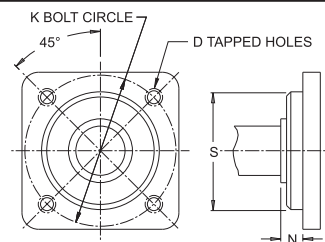
**Metric 4-Bolt Mounting Flanges (Rectangular)**

Mounting Flange	Metric Code	Spigot Diameter S	Flange Dimensions (all dimensions in mm)						Series
			K	P	B	D	M	N	
50	C4	50	68	72	62	6.6	20	8	PREF
63	C4	63	85	90	80	9	20	8	PREF
80	C4	80	103	109	100	9	20	8	PREF
100	C4	100	125	132	125	11	25	10	PREF
112	C4	112	140	148	132	11	25	10	NON-PREF
125	C4	125	160	170	150	14	32	10	PREF
140	C4	140	180	191	170	14	32	10	NON-PREF
160	C4	160	200	212	190	18	40	10	PREF
180	C4	180	224	265	212	18	40	10	NON-PREF
200	C4	200	250	265	236	22	50	10	PREF



**Metric 4-Bolt Mounting Flange (R4)**

Mounting Flange	Metric Code	Spigot Diameter S	Flange Dimensions (all dimensions in mm)		
			K	D	N
R4	Non-Code	63	80	M8	6.5



**Metric 4-Bolt Mounting Flange (R4M)**

Mounting Flange	Metric Code	Spigot Diameter S	Flange Dimensions (all dimensions in mm)		
			K	D	N
R4M	Non-Code	50	63	M6	8

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## ADAPTER MOUNTING SPACER

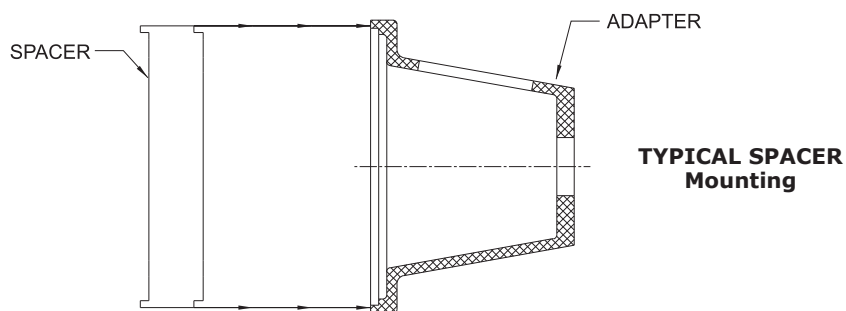
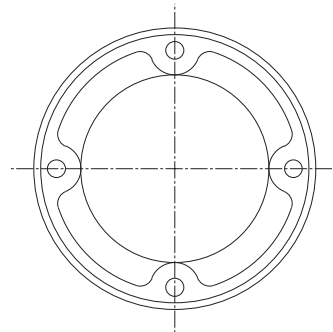
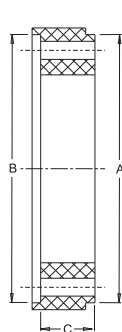
Adapter Mounting Spacers are designed to be used in conjunction with a pump motor adapter to increase the face to face spacing between the motor and pump when a standard pump motor adapter alone does not have the proper face to face spacing required for the application.

### Standard Feature:

- Machined pilots that easily mount to the motor end of the adapter

### Standard Material:

- Cast Aluminum



Adapter Mounting Spacers						
Motor Size	Dimensions (inches)			Part No.	Remarks	Example
	A	B	C			
56C, 143TC, 145TC, 182/184UC	4.500 4.497	4.501 4.504	1.000 .998	<b>2114</b>	Spacer can be used with any 56/145 size pump/motor mount to add 1.00 inch to the face to face dimension	(1) 2114 spacer + (1) 6028 pump/motor = 5.25 inches face to face dimension
182/256TC 213/256UC	8.500 8.497	8.501 8.503	1.000 .998	<b>1962</b>	Spacer can be used with any 182/256 size pump/motor to add 1.00 inch to the face to face dimension	(1) 1962 spacer+ (1) 1960 pump/motor mount = 6.00 inches face to face dimension
284/286TC 284/286TSC 284/286UC	10.500 10.497	10.501 10.503	.500 .498	<b>3047</b>	Spacer can be used with any 284/286 size pump/motor mount to add .50 inch to the face to face dimension	(1) 3047 spacer+ (1) 1981 pump/motor mount = 7.69 inches face to face dimension
284/286TC 284/286TSC 284/286UC	10.500 10.497	10.501 10.503	1.750 1.747	<b>1992</b>	Spacer can be used with any 284/286 size pump/motor amount to add 1.75 inches to the face to face dimension	(1) 1992 spacer+ (1) 1981 pump/motor mount = 8.94 inches face to face dimension
324/405TC 324/405TSC 324/405UC 324/405USC	12.500 12.497	12.501 12.503	1.250 1.247	<b>1993</b>	Spacer can be used with any 324/405 size pump/motor mount to add 1.25 inches to the face to face dimension	(1) 1993 spacer + (1) 1984 pump/motor mount = 8.87 inches face to face dimension

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# PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

## VERTICAL MOUNTING ADAPTER RINGS

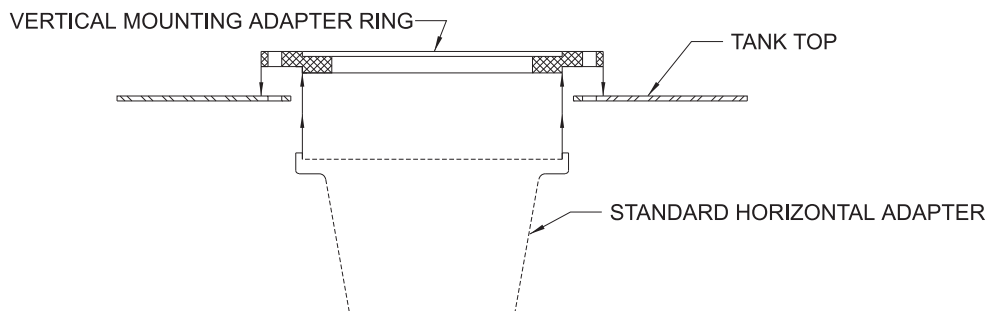
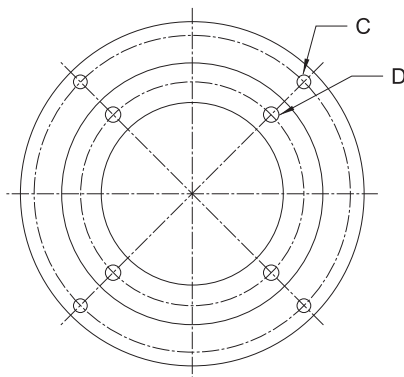
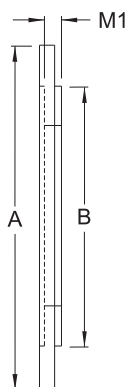
Vertical Adapter Rings are designed to convert a horizontal style pump motor adapter for use in a vertical application.

### Standard Feature:

- Machined pilots that easily mount to the motor end of the adapter

### Standard Material:

- Cast Aluminum and Carbon Steel



Vertical Mounting Adapter Rings								
Motor Size	Dimensions					Part No.	General Information	Mounting Info.
A	B	C	D	M1				
182TC thru 256TC 213UC thru 256UC	11.50 inch Dia.	8.50 inch Dia.	4 Slots .53 inch dia. on 10.25 to 10.50 B.C.	4 Holes .56 inch dia. on 7.25 inch dia. B.C.	.50 inch	<b>268299</b>	For use with 182TC/256TC and 213UC/256UC pump motor adapters. (add .50 inch to "M" dimension of adapter) See page 98 for optional Vertical Mounting Gasket	Tank top requires 9.12 inch dia. hole with (4) .56 inch dia. holes equally spaced on a 10.25 inch dia. bolt circle
284TC/TSC 286TC/TSC 284UC/286UC	13.50 inch Dia	10.50 inch Dia.	4 Holes .56 inch dia. on 12.50 inch dia. B.C.	4 Holes .56 inch dia. on 9 inch dia. B.C.	.50 inch	<b>268399</b>	For use with 284/286TC thru 284/286/TSC and 284/286UC pump motor adapters (add .50 inch to "M" dimension of adapter) See page 98 for optional Vertical Mounting Gasket	Tank top requires a 11.12 inch dia. hole with (4) .56 inch dia. holes equally spaced on a 12.50 inch dia. bolt circle
324TC/TSC thru 405TC/TSC  324UC/USC thru 405UC/USC	16.75 inch Dia.	12.50 inch Dia.	4 Holes .69 inch dia. on 15.50 inch dia. B.C.	4 Holes .69 inch dia. on 11 inch dia. B.C.	.62 inch	<b>268499</b>	For use with 324TC/TSC thru 405TC/TSC and 324UC/USC thru 405UC/USC pump motor adapters. (add .62 inch to "M" dimension of adapter) See page 98 for optional Vertical Mounting Gasket	Tank top requires 14.12 inch dia. hole with (4) .69 inch dia. holes equally spaced on a 15.50 inch dia. bolt circle

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# VERTICAL GASKET INFORMATION

## VERTICAL MOUNTING INFORMATION

Vertical Pump/Motor Adapters require a cutout to mount adapters vertically. See chart below for mounting/cutout information.

Vertical Adapters		
Motor Size	Adapter Style	Cutout Information
56C, 143TC, 145TC, 182/184UC	Style 1, 1A, 1B	Requires a 5.19 inch diameter hole with (4) .44 inch diameter holes equally spaced on 5.88 inch diameter B.C.
182/256TC 213/256UC	Style 6	Requires a 9.31 inch diameter hole with (4) .56 inch diameter holes equally spaced on 10.25 inch diameter B.C.
182/256TC 213/256UC	Style 7	Requires a 6.25 inch diameter hole with (4) .56 inch diameter holes equally spaced on 7.25 inch diameter B.C.
182/256TC 213/256UC	Vertical Mounting Adapter Ring <b>268299</b> on Horizontal Adapter (see information in chart below)	
284/286TC/TSC 284/286UC	None (Use Vertical Mounting Adapter Ring <b>268399</b> ) (see information in chart below)	
324/405TC/TSC 324/405UC/USC	None (Use Vertical Mounting Adapter Ring <b>268499</b> ) (see information in chart below)	
444/445TSC	Not Available	

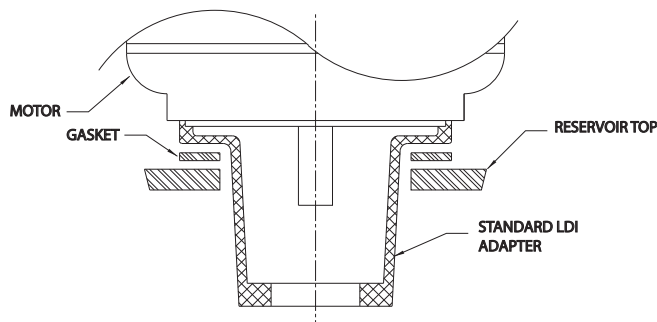
Vertical Rings		
Motor Size	Part Number	Cutout Information
182/256TC 213/256UC	<b>268299</b>	Requires a 9.12 inch diameter hole with (4) .56 inch diameter holes equally spaced on 10.25 inch diameter B.C.
284/286TC/TSC 284/286UC	<b>268399</b>	Requires a 11.12 inch diameter hole with (4) .56 inch diameter holes equally spaced on 12.50 inch diameter B.C.
324/405TC/TSC 324/405UC/USC	<b>268499</b>	Requires a 14.12 inch diameter hole with (4) .69 inch diameter holes equally spaced on 15.50 inch diameter B.C.

## VERTICAL MOUNTING GASKETS

Vertical Mounting Gaskets are used with LDI Pump/Motor Adapters to seal adapter to reservoir top.

### Standard Material:

- 0.09 inch thick cork neoprene



Vertical Mounting Gaskets		
Adapter Size	Adapter Style	Part No.
56C, 143TC, 145TC, 182/184UC	1 1A 1B	<b>268599</b>
182/256TC 213/256UC	6	<b>268699</b>
182/256TC 213/256UC	7	<b>268799</b>
182/256TC 213/256UC	Vertical Ring 268299	<b>268699</b>
284/286TC/TSC 284/286UC	Vertical Ring 268399	<b>268899</b>

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# RETURN LINE DIFFUSERS

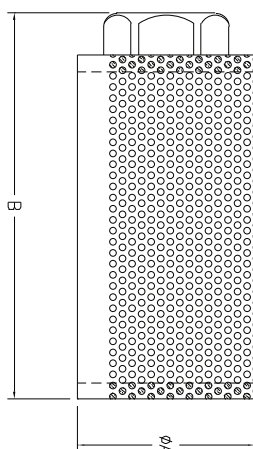
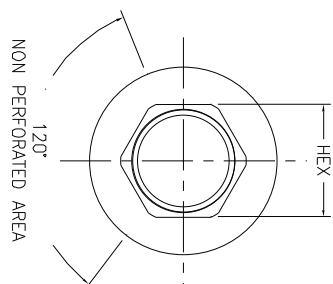
Return Line Diffusers are an economical and highly effective way to reduce aeration, foaming, turbulence and noise caused by return lines. Baffles can usually be eliminated, provided that the holes in the diffuser are positioned away from the pump suction inlet and below the oil level.

## Standard Features:

- Max working pressure 290 PSI (20 bar)
- Working temperature -13° to 230°F (-25° to 110°C)

## Standard Materials:

- Zinc plated steel



RLD Series									
Part No.	Pipe Size NPT (inch)	Return Flow @ 20 ft/second		Dimensions					
		GPM	L/min	A		B		Hex	
				in	mm	in	mm	in	mm
<b>RLD30</b>	3/4	33	125	3.40	86	3.00	76	1.31	33
<b>RLD50</b>	1	53	201	3.40	86	4.20	107	1.62	41
<b>RLD90</b>	1 1/4	93	342	3.40	86	6.50	165	1.88	48
<b>RLD120</b>	1 1/2	126	479	4.50	114	6.60	168	2.12	54
<b>RLD200</b>	2	209	794	4.50	114	10.30	262	2.75	70
<b>RLD290*</b>	2 1/2	298	1128	5.20	132	9.13	232	N/A	N/A
<b>RLD450*</b>	3	460	1748	5.20	132	10.00	254	N/A	N/A

\*uses round half coupling versus hex stock

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## FILLER BREATHER

Filler Breather Weld Riser is designed to raise the filler breather mounting surface an additional one inch above the cover mounting surface of a reservoir.

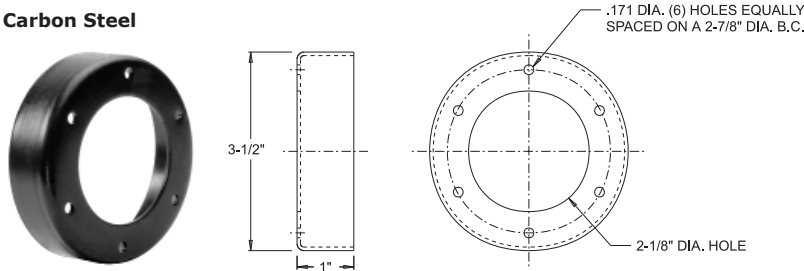
### Standard Features:

- Eliminates the need to drill the 6 mounting holes
- Helps prevent contamination from entering the reservoir
- Designed to be welded in place

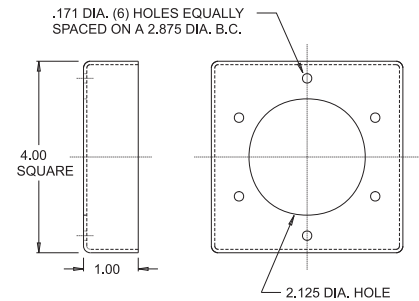
### Standard Materials:

- Carbon steel
- Stainless Steel

#### Carbon Steel



#### Stainless Steel



**NOTE:** All dimensions are inches

Filler Breather		
Part No.	Style	Description
5275	Round	Filler Breather Weld Riser
5275SS	Square	Filter Breather Weld Riser 316 Stainless Steel

## SUCTION FLANGE

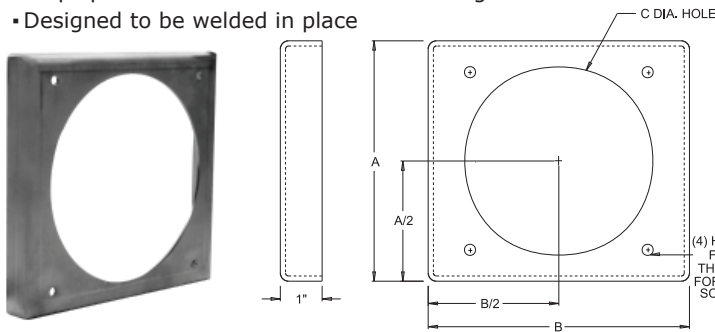
Suction Flange Weld Risers are designed to raise the suction flange mounting surface an additional one inch above the cover mounting surface of a reservoir.

### Standard Features:

- Eliminates the need to drill the 4 mounting holes
- Helps prevent contamination from entering the reservoir
- Designed to be welded in place

### Standard Material:

- Carbon steel



Suction Flange				
Part No.	A inches	B inches	C Dia. inches	Use with Pipe/Tube inches
5150	5.75	6.25	4.50	.50 to 2.00
5151	7.75	8.25	6.50	1.50 to 4.00

**NOTE:** All dimensions are inches

## RETURN FLANGE

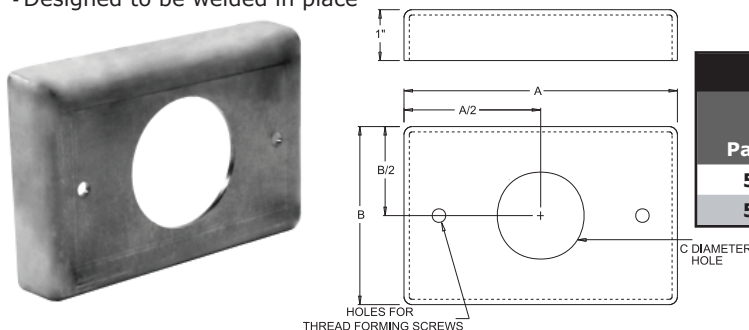
Return Flange Weld Riser is designed to raise the return flange mounting surface an additional one inch above the cover mounting surface of a reservoir.

### Standard Features:

- Eliminates the need to drill the 2 mounting holes
- Helps prevent contamination from entering the reservoir
- Designed to be welded in place

### Standard Material:

- Carbon steel



Return Flange					
Part No.	A inches	B inches	C Dia. inches	Use with Pipe inches	Use with Tube inches
5156	5.38	3.50	2.12	.50 to 1.50	.38 to 1.50
5157	5.38	4.00	2.56	2.00	2.00

**NOTE:** All dimensions are inches

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# SIGHT GAGES - CLOSED CIRCUIT

## G601 SERIES

The G601 Series front mount closed circuit sight gages provide front viewing of the fluid level through a clear glass sight all secured within an aluminum body. Functionally equivalent to the G605 Series sight gages, but miniaturized with smaller mounting studs, a lower profile and a smaller width viewing window.

### Standard Features:

- Front mount
- Fluid level visible from the front of gage (.31 inches wide)
- Clear borosilicate sight glass
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum construction
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

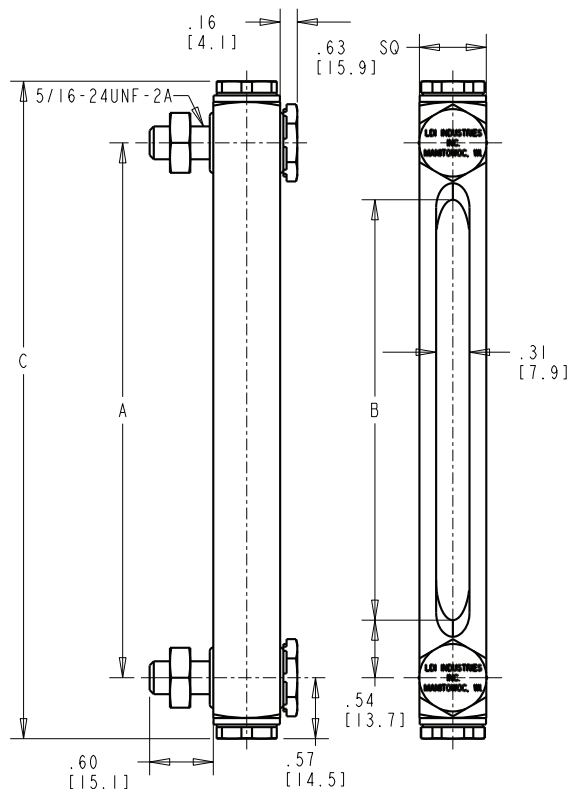
### Temperature and Pressure Ratings:

- Maximum working pressure up to 200 PSI (1379 kPa) at 150°F (65°C), no corrosion
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-6 on page RA-A6 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended



**NOTE:** All dimensions are inches [mm]

G601 Series			
Part No.	A inches (mm)	B inches (mm)	C inches (mm)
G601-03-A-1	3.00 (76.20)	1.93 (49.02)	4.15 (105.41)
G601-05-A-1	5.00 (127.00)	3.93 (99.82)	6.15 (156.21)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G601-05-A-1** — Buna N Seals  
Aluminum body  
5.00 (127.00 mm) mounting centers  
Series G601

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G603 SERIES

The G603 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, flexible tubular vinyl sight providing 360° viewing of the fluid level. The flexible vinyl sight bends easily to conform to irregular or cylindrical shaped reservoir bodies.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Vinyl tubular sight
- Buna N seals

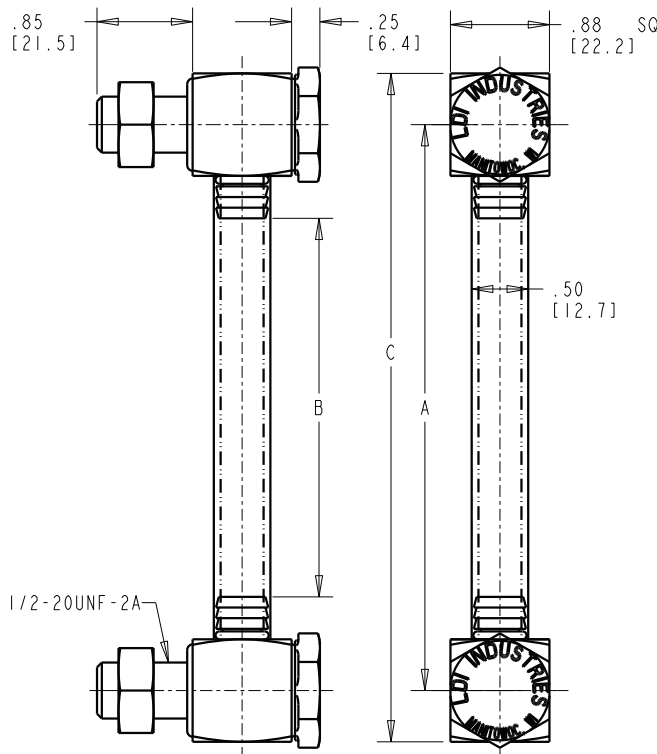
### Temperature and Pressure Ratings:

- 150°F (65°C) maximum operating temperature
- 5 psi (35 kPa) maximum operating pressure
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-11 on page RA-A11 for installation instructions

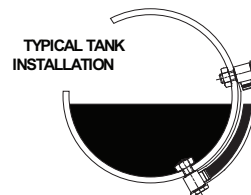
**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



G603 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.34 (34.04)	3.91 (9.93)
4.00 (101.60)	2.34 (59.44)	4.91 (124.71)
5.00 (127.00)	3.34 (84.84)	5.91 (150.11)
6.00 (152.40)	4.34 (110.24)	6.91 (175.51)
7.00 (177.80)	5.34 (135.64)	7.91 (200.91)
8.00 (203.20)	6.34 (161.04)	8.91 (226.31)
9.00 (228.60)	7.34 (186.44)	9.91 (251.71)
10.00 (254.00)	8.34 (211.84)	10.91 (277.11)
11.00 (279.40)	9.34 (237.24)	11.91 (302.51)
12.00 (304.80)	10.34 (262.64)	12.91 (327.91)



**NOTE:** All dimensions are inches [mm]



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G603-05-A-1** — Buna N Seals  
 Aluminum end blocks  
 5.00 (127.00 mm) mounting centers  
 Series G603

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## GA603 SERIES

The GA603 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, flexible tubular vinyl sight providing 360° viewing of the fluid level. The flexible vinyl sight bends easily to conform to irregular or cylindrical shaped reservoir bodies. Pipe adapters are provided with the gage for mounting directly to NPT couplings.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Brass pipe adapters
- Vinyl tubular sight
- Buna N seals

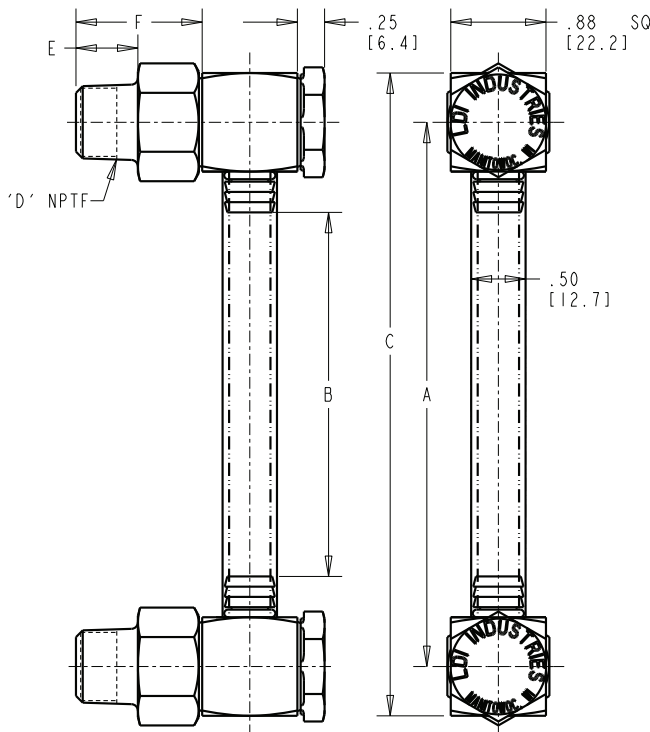
### Temperature and Pressure Ratings:

- 150°F (65°C) maximum operating temperature
- 5 psi (35 kPa) maximum operating pressure
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Please refer to Appendix RA-7 on page RA-A7 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)

#### SEAL MATERIAL

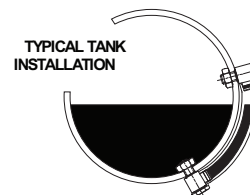
- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

#### PIPE SIZE

- 2- 1/4-18 male pipe thread
- 3- 3/8-18 male pipe thread
- 4- 1/2-14 male pipe thread
- 5- 3/4-14 male pipe thread

GA603 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.34 (34.04)	3.91 (9.93)
4.00 (101.60)	2.34 (59.44)	4.91 (124.71)
5.00 (127.00)	3.34 (84.84)	5.91 (150.11)
6.00 (152.40)	4.34 (110.24)	6.91 (175.51)
7.00 (177.80)	5.34 (135.64)	7.91 (200.91)
8.00 (203.20)	6.34 (161.04)	8.91 (226.31)
9.00 (228.60)	7.34 (186.44)	9.91 (251.71)
10.00 (254.00)	8.34 (211.84)	10.91 (277.11)
11.00 (279.40)	9.34 (237.24)	11.91 (302.51)
12.00 (304.80)	10.34 (262.64)	12.91 (327.91)

Pipe Adapter		
D NPTF	E inches (mm)	F inches (mm)
1/4-18	.57 (14.48)	1.22 (30.99)
3/8-18	.57 (14.48)	1.16 (29.46)
1/2-14	.76 (19.30)	1.16 (29.46)
3/4-14	.76 (19.30)	1.16 (29.46)



### HOW TO ORDER

#### EXAMPLE:

**GA603-05-A-1-3** — 3/8 inch NPTF  
Buna N Seals  
Aluminum end blocks  
5.00 (127.00 mm) mounting centers  
Series GA603



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# SIGHT GAGES - CLOSED CIRCUIT

## GAT603 SERIES

The GAT603 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, flexible tubular vinyl sight providing 360° viewing of the fluid level. The flexible vinyl sight bends easily to conform to irregular or cylindrical shaped reservoir bodies. A wetted dial thermometer provides direct reading of the fluid temperature and pipe adapters are provided with the gage for mounting directly to NPT couplings.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- 1.38 inch diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Brass pipe adapters
- Vinyl tubular sight
- Buna N seals

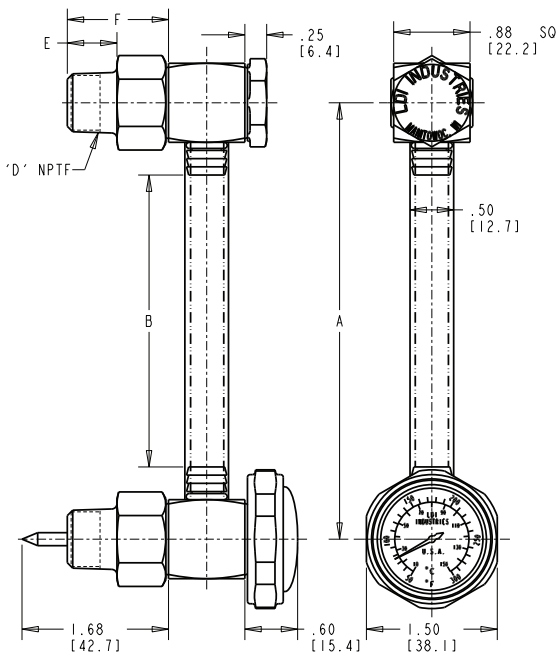
### Temperature and Pressure Ratings:

- 150°F (65°C) maximum operating temperature
- 5 psi (35 kPa) maximum operating pressure
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-7 on page RA-A7 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]

GAT603 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.34 (34.04)	3.91 (9.93)
4.00 (101.60)	2.34 (59.44)	4.91 (124.71)
5.00 (127.00)	3.34 (84.84)	5.91 (150.11)
6.00 (152.40)	4.34 (110.24)	6.91 (175.51)
7.00 (177.80)	5.34 (135.64)	7.91 (200.91)
8.00 (203.20)	6.34 (161.04)	8.91 (226.31)
9.00 (228.60)	7.34 (186.44)	9.91 (251.71)
10.00 (254.00)	8.34 (211.84)	10.91 (277.11)
11.00 (279.40)	9.34 (237.24)	11.91 (302.51)
12.00 (304.80)	10.34 (262.64)	12.91 (327.91)

Pipe Adapter		
D NPTF	E inches (mm)	F inches (mm)
1/4-18	.57 (14.48)	1.22 (30.99)
3/8-18	.57 (14.48)	1.16 (29.46)
1/2-14	.76 (19.30)	1.16 (29.46)
3/4-14	.76 (19.30)	1.16 (29.46)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

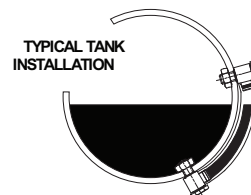
#### PIPE SIZE - GA603, GAT603 ONLY

- 2- 1/4-18 male pipe thread
- 3- 3/8-18 male pipe thread
- 4- 1/2-14 male pipe thread
- 5- 3/4-14 male pipe thread

### HOW TO ORDER

#### EXAMPLE:

**GAT603-11-A-1-3** — 3/8 inch NPTF  
Buna N Seals  
Aluminum end blocks  
11.00 (279.40 mm) mounting centers  
Series GAT603



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# SIGHT GAGES - CLOSED CIRCUIT

## GT603 SERIES

The GT603 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, flexible tubular vinyl sight providing 360° viewing of the fluid level. A wetted dial thermometer provides direct reading of the fluid temperature.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Vinyl tubular sight
- Buna N seals

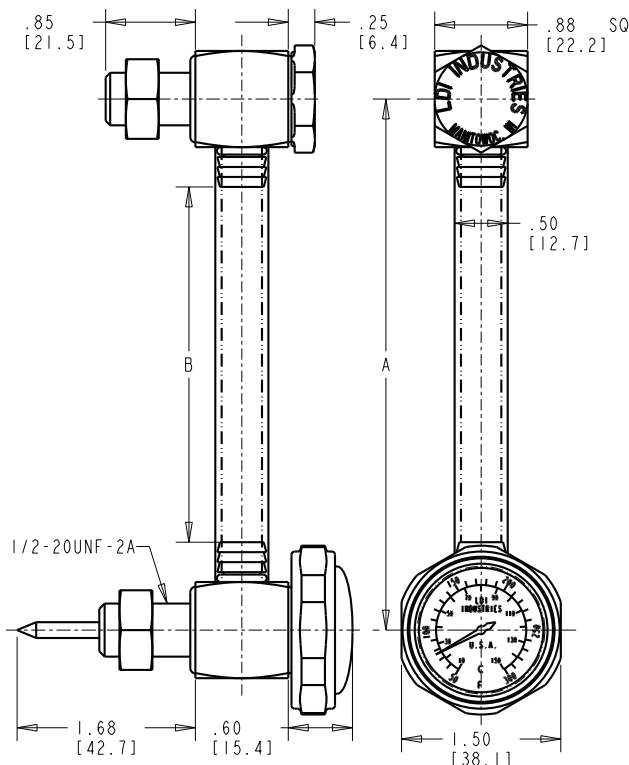
### Temperature and Pressure Ratings:

- 150°F (65°C) maximum operating temperature
- 5 psi (35 kPa) maximum operating pressure
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

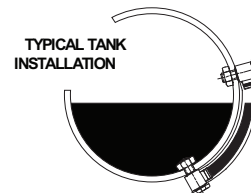
- Please refer to Appendix RA-11 on page RA-A11 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]

GT603 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.34 (34.04)	3.91 (9.93)
4.00 (101.60)	2.34 (59.44)	4.91 (124.71)
5.00 (127.00)	3.34 (84.84)	5.91 (150.11)
6.00 (152.40)	4.34 (110.24)	6.91 (175.51)
7.00 (177.80)	5.34 (135.64)	7.91 (200.91)
8.00 (203.20)	6.34 (161.04)	8.91 (226.31)
9.00 (228.60)	7.34 (186.44)	9.91 (251.71)
10.00 (254.00)	8.34 (211.84)	10.91 (277.11)
11.00 (279.40)	9.34 (237.24)	11.91 (302.51)
12.00 (304.80)	10.34 (262.64)	12.91 (327.91)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**GT603-08-A-1** — Buna N Seals  
Aluminum end blocks  
8.00 (203.20 mm) mounting centers  
Series GT603

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G605 SERIES

The G605 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body. HIGH-LOW markings are stamped into the aluminum body.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel locknuts

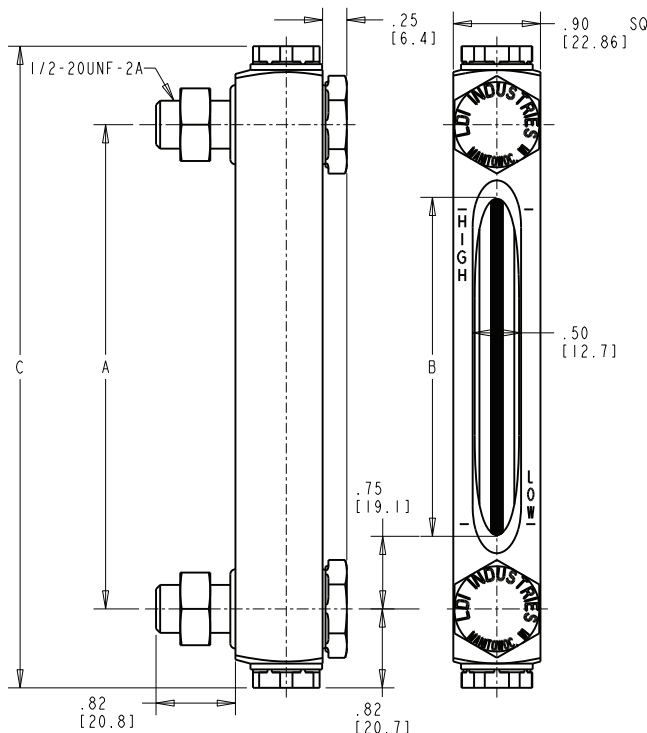
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended



**NOTE:** All dimensions are inches [mm]

G605 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.50 (38.10)	4.62 (117.35)
4.00 (101.60)	2.50 (63.50)	5.62 (142.75)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
7.00 (177.80)	5.50 (139.70)	8.62 (218.95)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
9.00 (228.60)	7.50 (190.50)	10.62 (269.75)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
11.00 (279.40)	9.50 (241.30)	12.62 (320.55)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)



**NOTE:** The sight opening in all cases is 1.50 inches (38.10mm) less than mounting centers and overall length is 1.62 inches (41.15mm) greater than mounting centers. Gages with 13.00 inch (330.20mm) and greater mounting centers are furnished with spacer sleeves to space gage from tank allowing for bowing of the tank wall in larger reservoirs. Center mounting kits are furnished with gages 48.00 inches (1219.20mm) and greater mounting centers.

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 10- Neoprene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G605-05-A-1** — Buna N Seals  
— Aluminum gage body  
— 5.00 (127.00 mm) mounting centers  
— Series G605

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G607 SERIES

The G607 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body (HIGH-LOW markings). Brass pipe adapters are provided with the sight gages for direct assembly of the sight gage to NPT couplings.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Brass pipe adapters
- Buna N seals
- Borosilicate glass sight

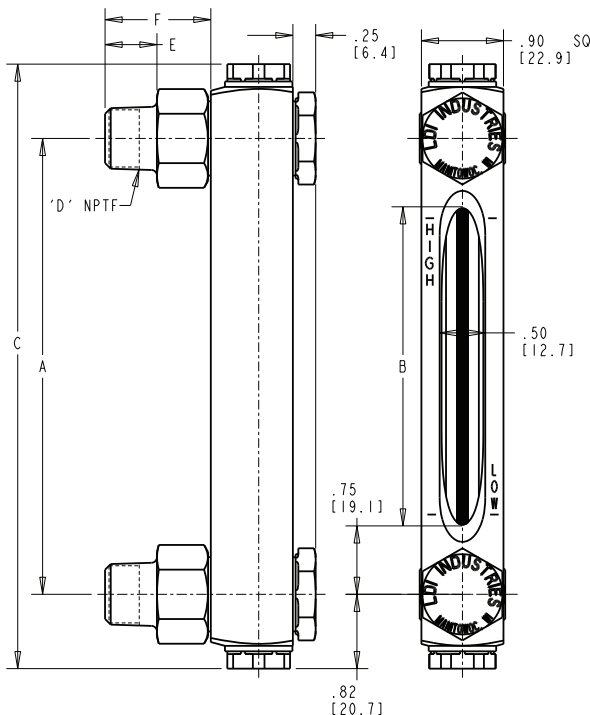
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-117 on page RA-A7RA-A7 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

#### SPECIFY PIPE THREAD SIZE:

- 2- 1/4 male pipe thread
- 3- 3/8 male pipe thread
- 4- 1/2 male pipe thread
- 5- 3/4 male pipe thread

G607 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.50 (38.10)	4.62 (117.35)
4.00 (101.60)	2.50 (63.50)	5.62 (142.75)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
7.00 (177.80)	5.50 (139.70)	8.62 (218.95)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
9.00 (228.60)	7.50 (190.50)	10.62 (269.75)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
11.00 (279.40)	9.50 (241.30)	12.62 (320.55)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)

Pipe Adapter		
D NPTF	E inches (mm)	F inches (mm)
1/4-18	.57 (14.48)	1.22 (30.99)
3/8-18	.57 (14.48)	1.16 (29.46)
1/2-14	.76 (19.30)	1.16 (29.46)
3/4-14	.76 (19.30)	1.16 (29.46)



### HOW TO ORDER

#### EXAMPLE:

**G607-06-A-1-4** — 1/2 inch pipe thread  
— Buna N Seals  
— Aluminum gage body  
— 6.00 (152.40 mm) mounting centers  
— Series G607

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G608 SERIES

The G608 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body (HIGH-LOW markings). Brass pipe adapters with integral needle valves are provided with the sight gages for direct assembly of the sight gage to NPT couplings. The needle valves allow a user to shut off flow to the sight gage allowing the sight gage to be removed from the reservoir with minimal loss of fluid

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Brass pipe adapters (with needle valves)
- Buna N seals
- Borosilicate glass sight

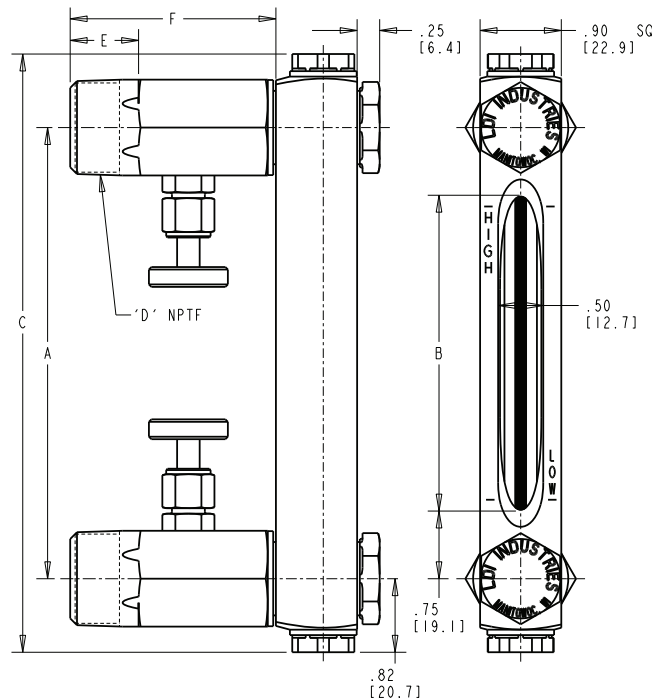
### Temperature and Pressure Ratings:

- Maximum working pressure as noted in table below at 150°F (65°C), no corrosion
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-7 on page RA-A7 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

#### SPECIFY PIPE THREAD SIZE:

- 2- 1/4 male pipe thread
- 3- 3/8 male pipe thread
- 4- 1/2 male pipe thread
- 5- 3/4 male pipe thread

### G608 Series

A inches (mm)	B inches (mm)	C inches (mm)	Max. Work. Pressure PSI (kPa)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)	275 (1896)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)	270 (1862)
15.00 (381.00)	13.50 (342.90)	16.62 (422.15)	260 (1793)
18.00 (457.20)	16.50 (419.10)	19.62 (498.35)	240 (1655)
24.00 (609.60)	22.50 (571.50)	25.62 (650.75)	210 (1448)
30.00 (762.00)	28.50 (723.90)	31.62 (803.15)	185 (1276)

### Pipe Adapter

D NPTF	E inches (mm)	F inches (mm)
1/4-18	.57 (14.48)	2.09 (53.09)
3/8-18	.57 (14.48)	2.09 (53.09)
1/2-14	.76 (19.30)	2.28 (57.91)
3/4-14	.76 (19.30)	2.28 (57.91)

### HOW TO ORDER

#### EXAMPLE:

**G608-10-A-1-4** — 1/2 inch pipe thread  
 — Buna N Seals  
 — Aluminum gage body  
 — 10.00 (254.00 mm) mounting centers  
 — Series G608



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# SIGHT GAGES - CLOSED CIRCUIT

## G609 SERIES

The heavy duty G609 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body. Installation is the similar to the G605 Series, but the robust construction of the G609 Series allows these gages to operate at higher working pressures.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.62 inch wide)
- Viewing enhanced by redline on white background integral to sight glass
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

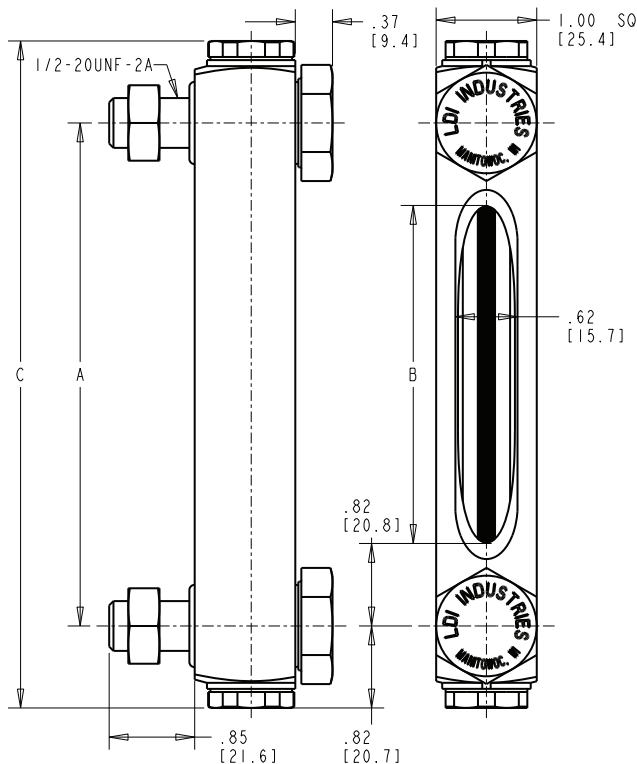
### Temperature and Pressure Ratings:

- 600 psi (4137 kPa) maximum working pressure at 150°F (65°C) for centerline lengths from 5 to 12 inches (*Consult factory for pressure ratings on centerline lengths outside this range*)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 10- Neoprene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G609-05-A-1** — Buna N Seals  
Aluminum gage body  
5.00 (127.00 mm) mounting centers  
Series G609

G609 Series				
Part No.	A inches (mm)	B inches (mm)	C inches (mm)	Max. Work. Pressure PSI (kPa)
G609-05-A-1	5.00 (127.00)	3.36 (85.34)	6.62 (168.15)	600 (4137)
G609-12-A-1	12.00 (304.80)	10.36 (263.14)	13.62 (345.95)	600 (4137)



Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G610 SERIES

The G610 Series back mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body. HIGH-LOW markings are stamped into the aluminum body.

### Standard Features:

- Back mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

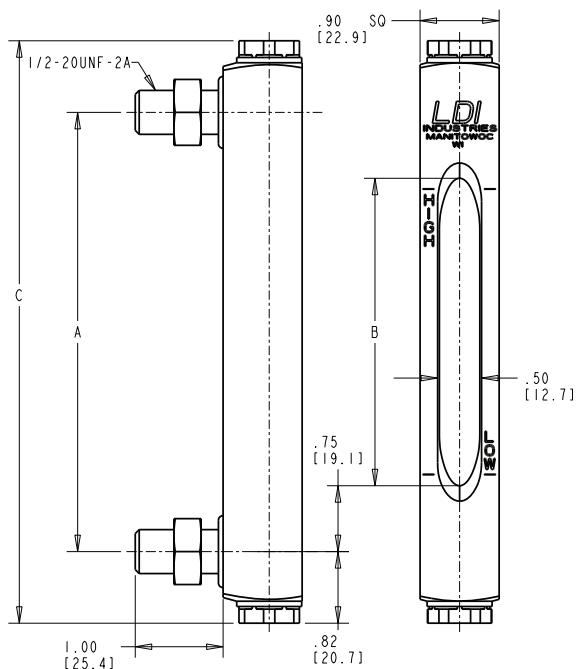
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount this style sight gage
- Please refer to Appendix RA-3 on page RA-A3 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended



**NOTE:** All dimensions are inches [mm]

G610 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.50 (38.10)	4.62 (117.35)
4.00 (101.60)	2.50 (63.50)	5.62 (142.75)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
7.00 (177.80)	5.50 (139.70)	8.62 (218.95)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
9.00 (228.60)	7.50 (190.50)	10.62 (269.75)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 10- Neoprene seals (optional)

**NOTE:** The sight opening in all cases is 1.50 (38.10mm) less than mounting centers and overall length is 1.62 (41.15mm) greater than mounting centers.

### HOW TO ORDER

#### EXAMPLE:

**G610-05-A-1** — Buna N Seals  
Aluminum gage body  
5.00 (127.00 mm) mounting centers  
Series G610

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# SIGHT GAGES - CLOSED CIRCUIT

## G613 SERIES

The G613 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, rigid tubular Nylon sight providing 360° viewing of the fluid level. The Nylon sight combines rigidity with break resistant toughness.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Nylon tubular sight
- Buna N seals

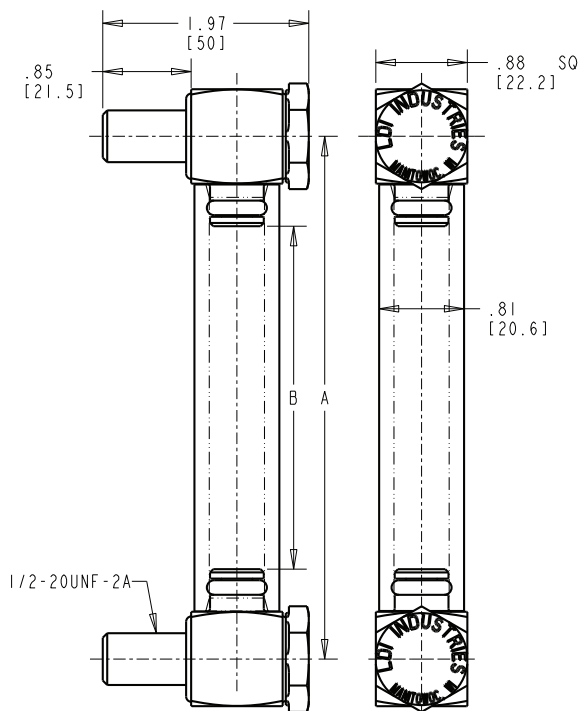
### Temperature and Pressure Ratings:

- 225°F (107°C) maximum operating temperature
- 125 psi (862 kPa) maximum working pressure at 70°F (21°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-8 on page RA-A8 for installation instructions

**CAUTION:** • Not recommended for use with diesel fuel, gasoline, ethylene glycol (antifreeze), polyglycols, ethyl alcohol, methyl alcohol, methyl ethyl ketone (MEK), acetone, isopropanol, water exceeding 194°F (90°C), steam, acidic, caustic and volatile fluids



**NOTE:** All dimensions are inches [mm]

G613 Series	
A inches (mm)	B inches (mm)
3.00 (76.20)	1.28 (32.51)
4.00 (101.60)	2.28 (57.91)
5.00 (127.00)	3.28 (83.31)
6.00 (152.40)	4.28 (108.71)
7.00 (177.80)	5.28 (134.11)
8.00 (203.20)	6.28 (159.51)
9.00 (228.60)	7.28 (184.91)
10.00 (254.00)	8.28 (210.31)
11.00 (279.40)	9.28 (235.71)
12.00 (304.80)	10.28 (261.11)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G613-05-A-1** — Buna N Seals  
Aluminum end blocks  
5.00 (127.00 mm) mounting centers  
Series G613

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# SIGHT GAGES - CLOSED CIRCUIT

## GA613 SERIES

The GA613 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, rigid tubular Nylon sight providing 360° viewing of the fluid level. The Nylon sight combines rigidity with break resistant toughness. Pipe adapters are provided with the gage for mounting directly to NPT couplings.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Brass pipe adapters
- Nylon tubular sight
- Buna N seals

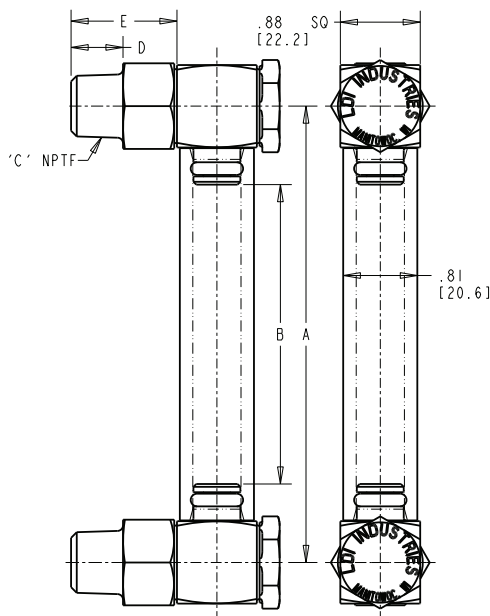
### Temperature and Pressure Ratings:

- 225°F (107°C) maximum operating temperature
- 125 psi (862 kPa) maximum working pressure at 70°F (21°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-7 on page RA-A7 for installation instructions

**CAUTION:** • Not recommended for use with diesel fuel, gasoline, ethylene glycol (antifreeze), polyglycols, ethyl alcohol, methyl alcohol, methyl ethyl ketone (MEK), acetone, isopropanol, water exceeding 194°F (90°C), steam, acidic, caustic and volatile fluids



NOTE: All dimensions are inches [mm]

### GA613 Series

A inches (mm)	B inches (mm)
3.00 (76.20)	1.28 (32.51)
4.00 (101.60)	2.28 (57.91)
5.00 (127.00)	3.28 (83.31)
6.00 (152.40)	4.28 (108.71)
7.00 (177.80)	5.28 (134.11)
8.00 (203.20)	6.28 (159.51)
9.00 (228.60)	7.28 (184.91)
10.00 (254.00)	8.28 (210.31)
11.00 (279.40)	9.28 (235.71)
12.00 (304.80)	10.28 (261.11)

### Pipe Adapter

C NPTF	D inches (mm)	E inches (mm)
1/4-18	.56 (14.22)	1.19 (30.23)
3/8-18	.56 (14.22)	1.12 (28.45)
1/2-14	.75 (19.05)	1.12 (28.45)
3/4-14	.75 (19.05)	1.12 (28.45)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)
- S- Steel end blocks (optional)
- Y- Stainless Steel end blocks (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

#### SPECIFY PIPE THREAD SIZE:

- 2- 1/4 male pipe thread
- 3- 3/8 male pipe thread
- 4- 1/2 male pipe thread
- 5- 3/4 male pipe thread

### HOW TO ORDER

#### EXAMPLE:

**GA613-06-A-1-4** — 1/2 inch NPTF  
Buna N Seals  
Aluminum end blocks  
6.00 (152.40 mm) mounting  
centers  
Series GA613

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# SIGHT GAGES - CLOSED CIRCUIT

## GT613 SERIES

The GT613 Series front mount closed circuit sight gage is mounted securely with end blocks made from aluminum. These end blocks are connected with a clear, rigid tubular Nylon sight providing 360° viewing of the fluid level. The Nylon sight combines rigidity with break resistant toughness. A wetted dial thermometer provides direct reading of the fluid temperature.

### Standard Features:

- Front mount
- 360° of viewing fluid level
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum end blocks and mounting bolts
- Nylon tubular sight
- Buna N seals

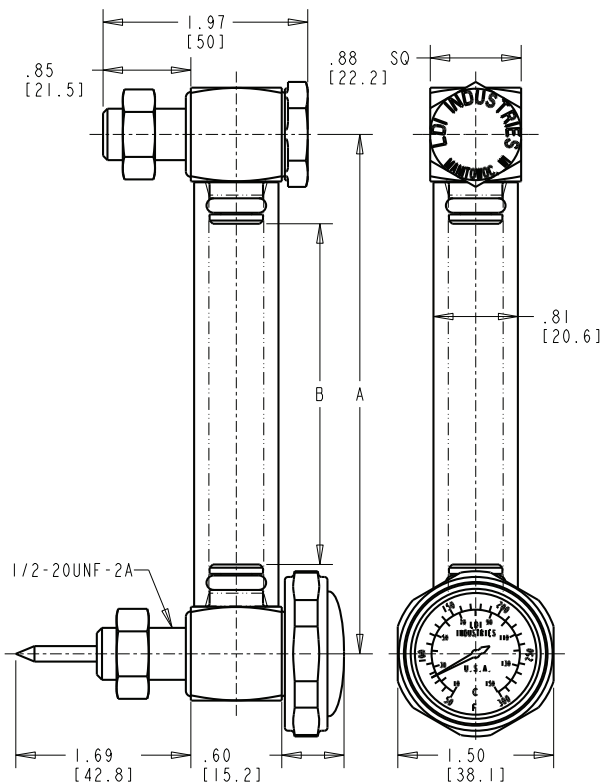
### Temperature and Pressure Ratings:

- 225°F (107°C) maximum operating temperature
- 125 psi (862 kPa) maximum working pressure at 70°F (21°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-8 on page RA-A8 for installation instructions

**CAUTION:** • Not recommended for use with diesel fuel, gasoline, ethylene glycol (antifreeze), polyglycols, ethyl alcohol, methyl alcohol, methyl ethyl ketone (MEK), acetone, isopropanol, water exceeding 194°F (90°C), steam, acidic, caustic and volatile fluids  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



GT613 Series	
A inches (mm)	B inches (mm)
3.00 (76.20)	1.28 (32.51)
4.00 (101.60)	2.28 (57.91)
5.00 (127.00)	3.28 (83.31)
6.00 (152.40)	4.28 (108.71)
7.00 (177.80)	5.28 (134.11)
8.00 (203.20)	6.28 (159.51)
9.00 (228.60)	7.28 (184.91)
10.00 (254.00)	8.28 (210.31)
11.00 (279.40)	9.28 (235.71)
12.00 (304.80)	10.28 (261.11)



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum end blocks (standard)
- B- Brass end blocks (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**GT613-05-A-1** — Buna N Seals  
Aluminum end blocks  
5.00 (127.00 mm) mounting centers  
Series GT613

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G615 SERIES

The G615 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body. HIGH-LOW markings are stamped into the aluminum body and a wetted dial thermometer provides direct reading of the fluid temperature.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

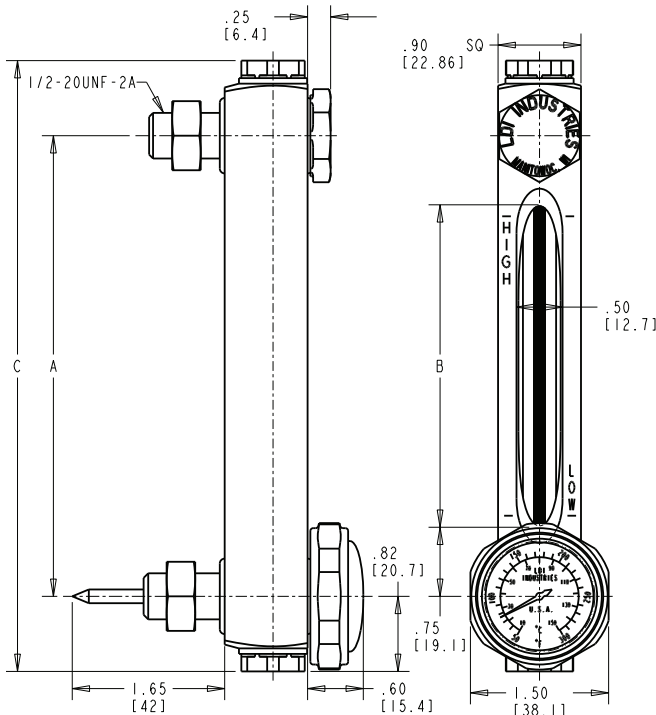
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]

G615 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.50 (38.10)	4.62 (117.35)
4.00 (101.60)	2.50 (63.50)	5.62 (142.75)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
7.00 (177.80)	5.50 (139.70)	8.62 (218.95)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
9.00 (228.60)	7.50 (190.50)	10.62 (269.75)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
11.00 (279.40)	9.50 (241.30)	12.62 (320.55)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)



**NOTE:** The sight opening in all cases is 1.50 inches (38.10mm) less than mounting centers and overall length is 1.62 inches (41.15mm) greater than mounting centers. Gages with 13.00 inch (330.20mm) and greater mounting centers are furnished with spacer sleeves to space gage from tank allowing for bowing of the tank wall in larger reservoirs. Center mounting kits are furnished with gages 48.00 inches (1219.20mm) and greater mounting centers.

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 10- Neoprene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G615-05-A-1** — Buna N Seals  
Aluminum gage body  
5.00 (127.00 mm) mounting centers  
Series G615

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G617 SERIES

The G617 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body (HIGH-LOW markings). Brass pipe adapters are provided with each sight gage for assembly of the sight gage to NPT couplings. Integral to the sight gage body is a wetted dial thermometer providing direct reading of the fluid temperature.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Brass pipe adapters
- Buna N seals
- Borosilicate glass sight

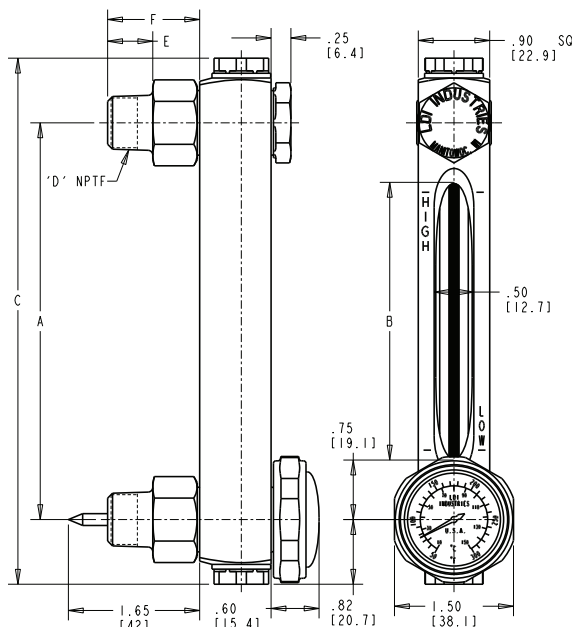
### Temperature and Pressure Ratings:

- 125 psi (862 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-7 on page RA-A7 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

#### SPECIFY PIPE THREAD SIZE:

- 2- 1/4 male pipe thread
- 3- 3/8 male pipe thread
- 4- 1/2 male pipe thread
- 5- 3/4 male pipe thread

### G617 Series

A inches (mm)	B inches (mm)	C inches (mm)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
7.00 (177.80)	5.50 (139.70)	8.62 (218.95)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
9.00 (228.60)	7.50 (190.50)	10.62 (269.75)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)

### Pipe Adapter

D NPTF	E inches (mm)	F inches (mm)
1/4-18	.56 (14.22)	1.19 (30.23)
3/8-18	.56 (14.22)	1.12 (28.45)
1/2-14	.75 (19.05)	1.12 (28.45)
3/4-14	.75 (19.05)	1.12 (28.45)

### HOW TO ORDER

#### EXAMPLE:

**G617-06-A-1-4** — 1/2 inch pipe thread  
— Buna N Seals  
— Aluminum gage body  
— 6.00 (152.40 mm) mounting centers  
— Series G617



Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G619 SERIES

The heavy duty G619 Series front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body. A dry dial thermometer allows for temperature monitoring. The thermowell for the thermometer combines with the thermometer shield to serve as one of the mounting bolts for the sight gage. This construction allows the thermometer orientation to be adjusted independent of the sight gage and replaced without having to drain the reservoir. Installation is the similar to the G615 Series, but the robust construction of the G619 Series allows these gages to operate at higher working pressures.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.62 inch wide)
- Viewing enhanced by redline on white background integral to sight glass
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Dial thermometer may be removed from a filled reservoir without loss of fluid
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolt
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

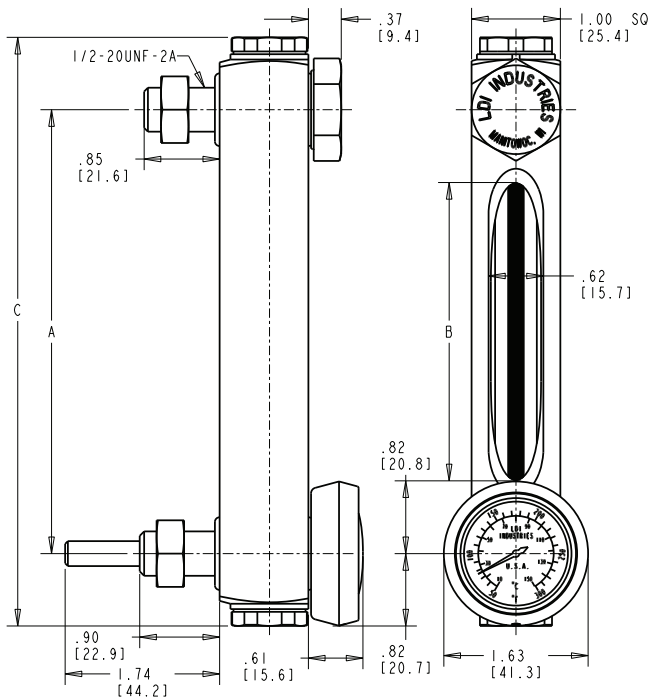
### Temperature and Pressure Ratings:

- 600 psi (4137 kPa) maximum working pressure at 150°F (65°C) for centerline lengths from 4 to 12 inches (*Consult factory for pressure ratings on centerline lengths outside this range*)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



G619 Series				
Part No.	A inches (mm)	B inches (mm)	C inches (mm)	Max. Work. Pressure PSI (kPa)
G619-05-A-1	5.00 (127.00)	3.36 (85.34)	6.62 (168.15)	600 (4137)
G619-12-A-1	12.00 (304.80)	10.36 (263.14)	13.62 (345.95)	600 (4137)



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 10- Neoprene seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G619-05-A-1** — Buna N Seals  
 — Aluminum gage body  
 — 5.00 (127.00 mm) mounting centers  
 — Series G619

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# SIGHT GAGES - CLOSED CIRCUIT

## G620 SERIES

The G620 Series back mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body (HIGH-LOW markings). A wetted dial thermometer provides an analog display of the fluid temperature.

### Standard Features:

- Back mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- 1.38" diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Aluminum tube shields thermometer probe extending into reservoir
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

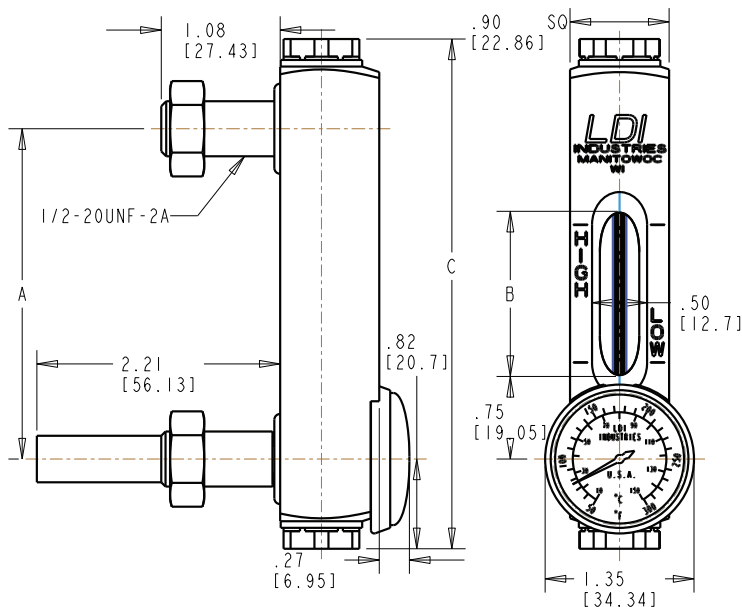
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount this style sight gage
- Please refer to Appendix RA-3 on page RA-A3 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]

G620 Series		
A inches (mm)	B inches (mm)	C inches (mm)
3.00 (76.20)	1.50 (38.10)	4.62 (117.35)
4.00 (101.60)	2.50 (63.50)	5.62 (142.75)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
7.00 (177.80)	5.50 (139.70)	8.62 (218.95)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
9.00 (228.60)	7.50 (190.50)	10.62 (269.75)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 10- Neoprene seals (optional)

**NOTE:** The sight opening in all cases is 1.50 inch (38.10mm) less than mounting centers and overall length is 1.62 inch (41.15mm) greater than mounting centers.

### HOW TO ORDER

#### EXAMPLE:

**G620-05-A-1** — Buna N Seals  
Aluminum gage body  
5.00 (127.00 mm) mounting centers  
Series G620

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G623 SERIES

G623 Series front mount closed circuit low profile sight gages are molded from a clear Nylon providing 180° of viewing. A white insert integral to the sight gage helps draw eye contact to the fluid level quickly.

### Standard Features:

- Front mount
- Tough, break resistant, transparent molded Nylon gage body
- 180° of viewing fluid level (without metal guard)
- Viewing enhanced by white background integral to molded gage body
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Constructed with a molded, transparent Nylon
- Buna N seals
- Black, powder coated steel guard

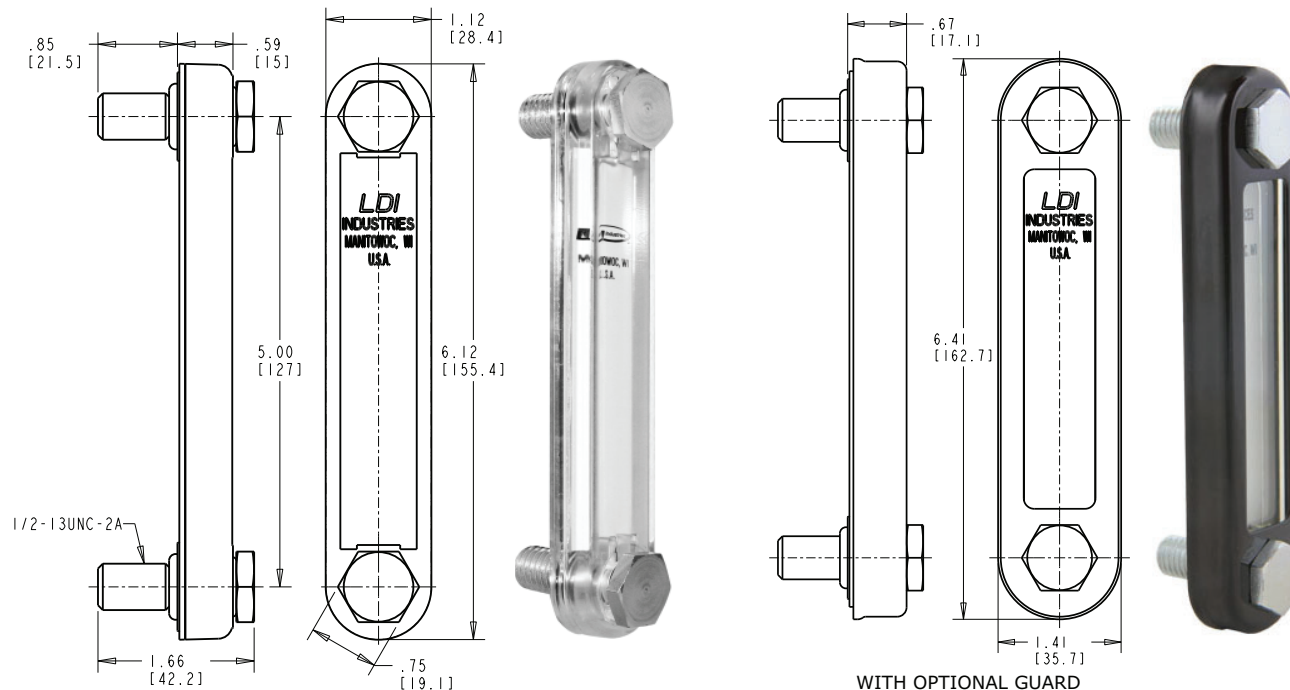
### Temperature and Pressure Ratings:

- 212°F (100°C) maximum operating temperature
- 50 psi (345 kPa) maximum operating pressure at 70°F (21°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-9 on page RA-A9 for installation instructions

**CAUTION:** -Not recommended for use with alcohol or steam



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 3- Viton® seals (optional)
- M- M12 x 1.75 bolts (optional)
- G- Guard (optional)

### HOW TO ORDER

#### EXAMPLE:

**G623-05-PG-1C** — 1/2-13 UNC bolts, std  
Buna N Seals  
Guard  
Polymer body  
5.00 (127.00 mm) mounting centers  
Series G623

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# SIGHT GAGES - CLOSED CIRCUIT

## GT623 SERIES

GT623 Series front mount closed circuit low profile sight gages are molded from a clear Nylon providing 180° of viewing. A white insert integral to the sight gage helps draw eye contact to the fluid level quickly.

### Standard Features:

- Front mount
- Tough, break resistant, transparent molded Nylon gage body
- 180° of viewing fluid level
- Viewing enhanced by white background integral to molded gage body
- Card thermometer, dual scale 0°F to 220°F and -20°C to 110°C
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Constructed with a molded, transparent Nylon
- Red color alcohol within thermometer bulb
- Buna N seals

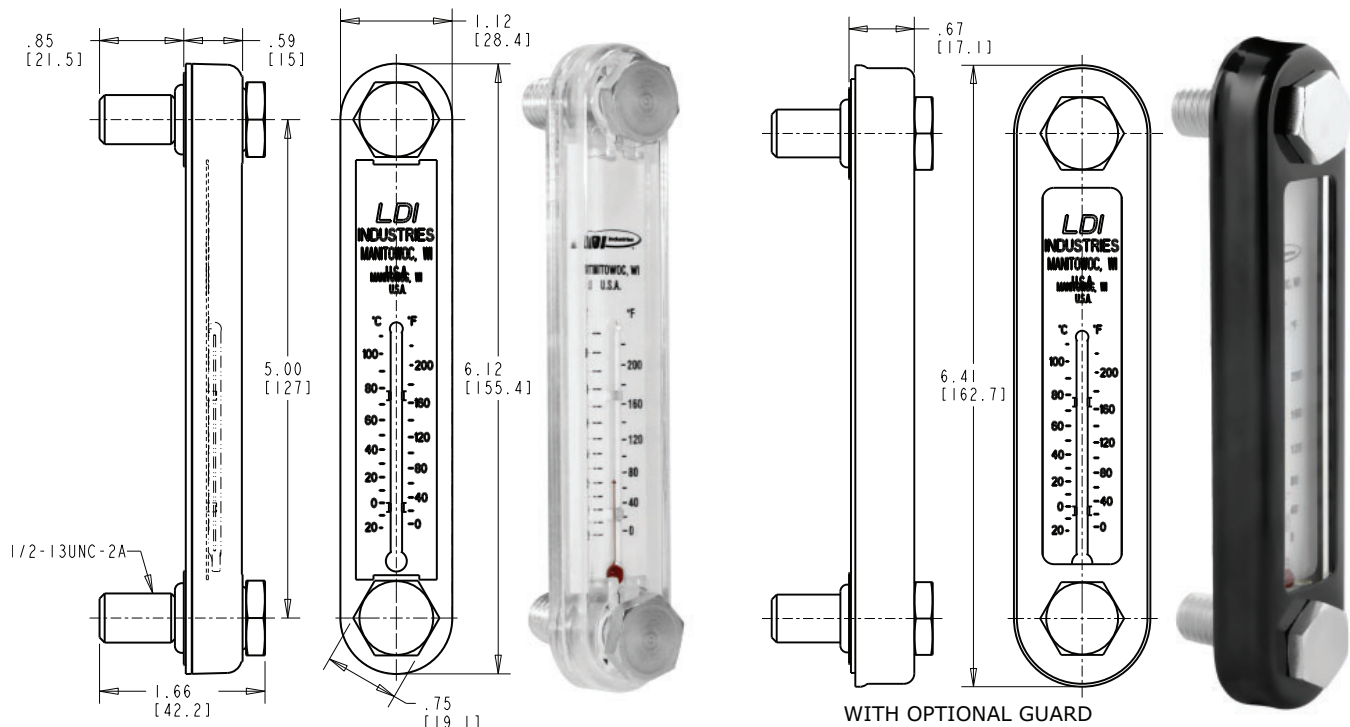
### Temperature and Pressure Ratings:

- 212°F (100°C) maximum operating temperature
- 50 psi (345 kPa) maximum operating pressure at 70°F (21°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-9 on page RA-A9 for installation instructions

**CAUTION:** • Not recommended for use with alcohol or steam



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 3- Viton® seals (optional)
- M- M12 x 1.75 bolts (optional)
- G- Guard (optional)

### HOW TO ORDER

#### EXAMPLE:

**GT623-05-PG-1C** — 1/2-13 UNC bolts, std  
 — Buna N Seals  
 — Guard  
 — Polymer body  
 — 5.00 (127.00 mm) mounting centers  
 — Series GT623

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# SIGHT GAGES - CLOSED CIRCUIT

## G632 SERIES

The G632 Series back mount closed circuit sight gages provide 270° of viewing the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body (HIGH-LOW markings). A wetted front facing dial thermometer provides an analog display of the fluid temperature. The oversized gage body allows a deeper recess of the sight glass and dial thermometer for maximum protection of these components against damage.

### Standard Features:

- Back mount
- 270° of viewing the fluid level (.88 inch front and .50 inch side width windows)
- Viewing enhanced by redline on white background integral to sight glass
- 1.38 inch diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Aluminum tube shields thermometer probe extending into reservoir
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum construction
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

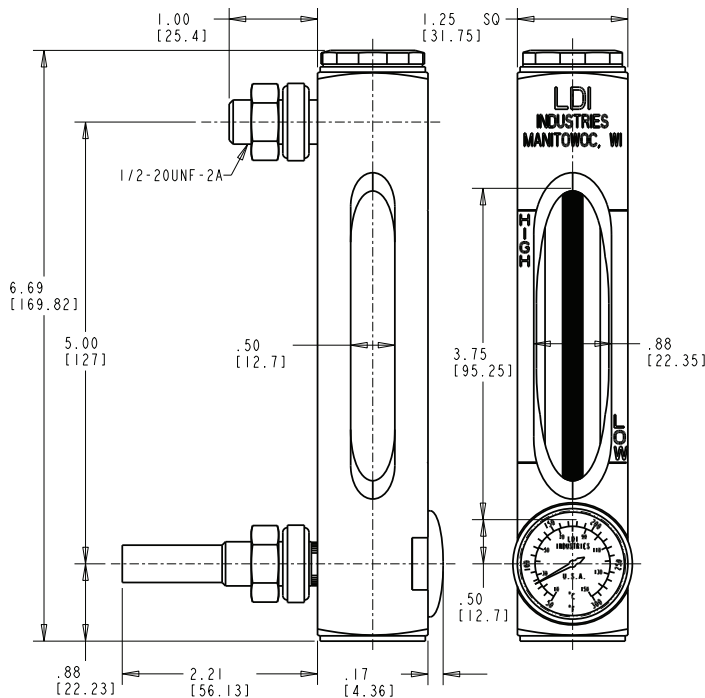
### Temperature and Pressure Ratings:

- 125 psi (862 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount this style sight gage
- Please refer to Appendix RA-3 on page RA-A3 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G632-05-A-1** — Buna N Seals  
Aluminum gage body  
5.00 (127.00 mm) mounting centers  
Series G632



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# SIGHT GAGES - CLOSED CIRCUIT

## G635 SERIES

The G635 Series front mount closed circuit sight gage provides 270° of viewing the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body (HIGH-LOW markings). The oversized gage body allows a deeper recess of the sight glass for maximum protection of the sight glass against damage.

### Standard Features:

Front mount  
270° of viewing the fluid level (.88 inch front and .50 inch side width windows)  
Viewing enhanced by redline on white background integral to sight glass  
Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

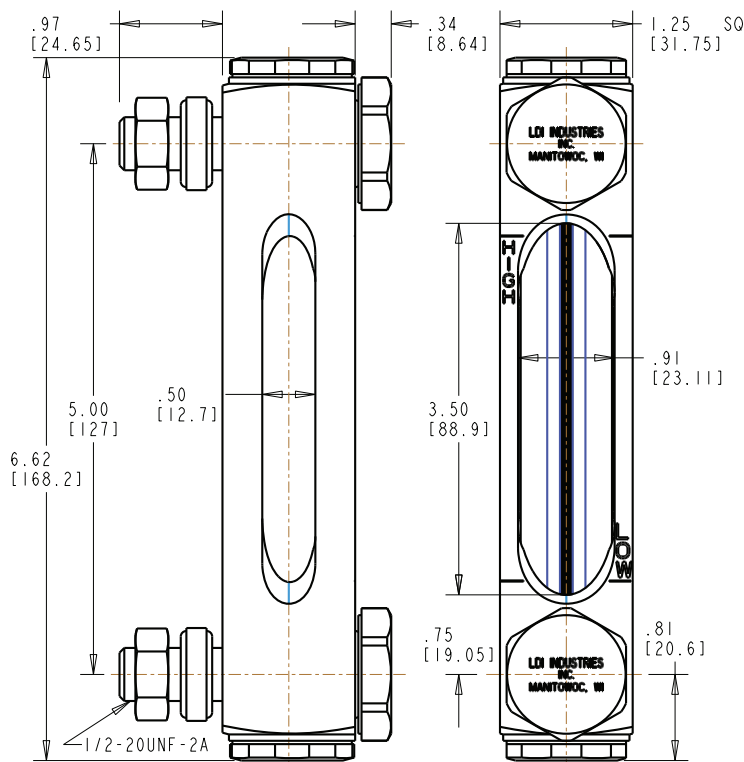
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5))

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
• If aluminum construction is selected for a water application, anodizing is recommended



**NOTE:** All dimensions are inches [mm]



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G635-05-A-1** — Buna N Seals  
Aluminum gage body  
5.00 (127.00 mm) mounting centers  
Series G635

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G640 SERIES

The G640 Series back mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body (HIGH-LOW markings). A wetted dial thermometer provides an analog display of the fluid temperature.

### Standard Features:

- Back mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- 1.81" diameter dual scale dial thermometer, 0° to 300°F and -20° to 150°C
- Aluminum tube shields thermometer probe extending into reservoir
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum construction
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

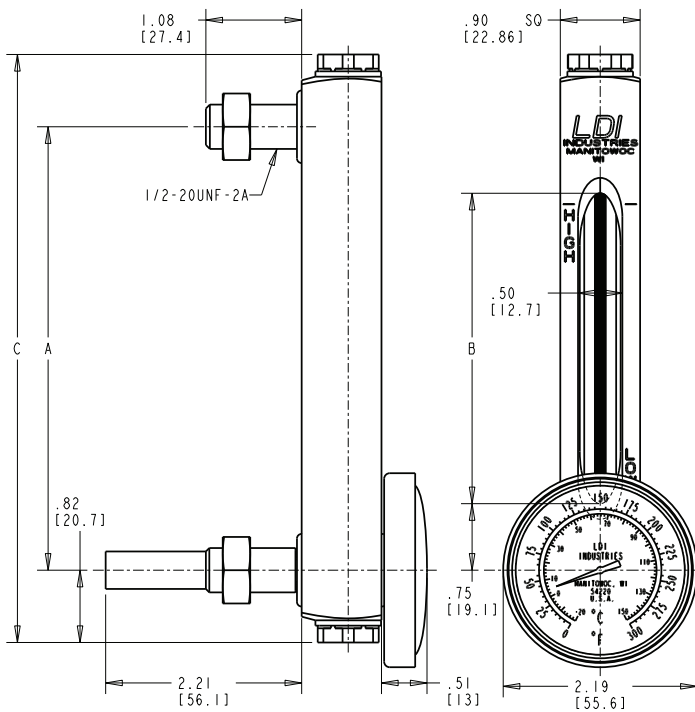
### Temperature and Pressure Ratings:

- 125 psi (862 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount this style sight gage
- Please refer to Appendix RA-3 on page RA-A3 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
 • If aluminum construction is selected for a water application, anodizing is recommended  
 • Reservoir must be drained to remove dial thermometer or loss of fluid will occur



G640 Series		
A inches (mm)	B inches (mm)	C inches (mm)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
6.00 (152.40)	4.50 (114.30)	7.62 (193.55)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G640-05-A-1** — Buna N Seals  
 — Aluminum gage body  
 — 5.00 (127.00 mm) mounting centers  
 — Series G640

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G642 SERIES

The G642 Series back mount closed circuit sight gages provide 270° of viewing the fluid level clearly delineated by a redline on white background integral to the sight glass all secured within an aluminum body (HIGH-LOW markings). A wetted front facing dial thermometer provides an analog display of the fluid temperature.

### Standard Features:

- Back mount
- 270° of viewing the fluid level (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- 1.81 inch diameter dual scale dial thermometer, 0° to 300°F and -20° to 150°C
- Aluminum tube shields thermometer probe extending into reservoir
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum construction
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

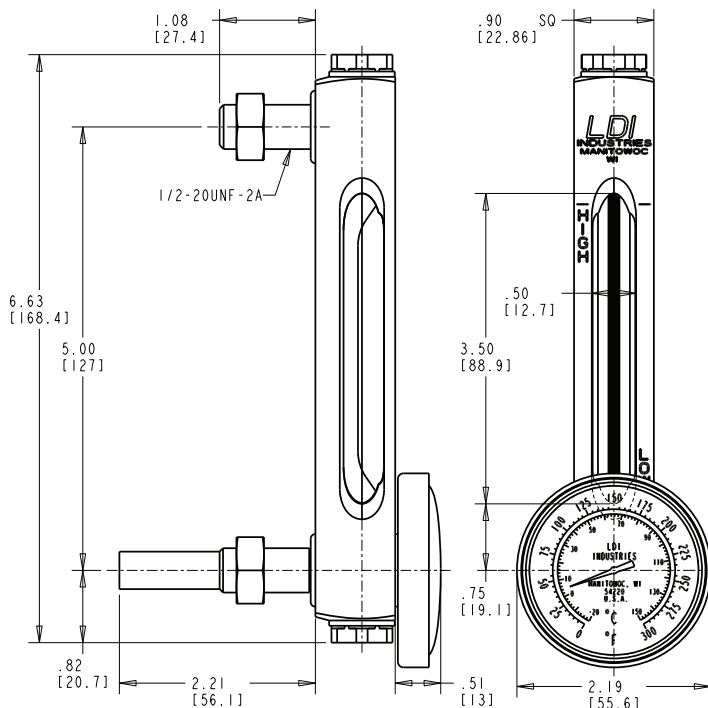
### Temperature and Pressure Ratings:

- 125 psi (862 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount this style sight gage
- Please refer to Appendix RA-3 on page RA-A3 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids  
 • If aluminum construction is selected for a water application, anodizing is recommended  
 • Reservoir must be drained to remove dial thermometer or loss of fluid will occur



**NOTE:** All dimensions are inches [mm]



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G642-05-A-1** — Buna N Seals  
 — Aluminum gage body  
 — 5.00 (127.00 mm) mounting centers  
 — Series G642

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G645 SERIES

The G645 front mount closed circuit sight gages provide front viewing of the fluid level clearly delineated by a redline on white background integral to the glass sight all secured within an aluminum body (HIGH-LOW markings). A dry dial thermometer allows for temperature monitoring. The thermowell for the thermometer also serves as one of the mounting bolts for the sight gage. This construction allows the thermometer orientation to be adjusted independent of the sight gage and removed if necessary without having to drain the reservoir.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.50 inches wide)
- Viewing enhanced by redline on white background integral to sight glass
- 2.00" diameter dual scale dial thermometer, 0° to 300°F and -20° to 150°C
- Dial thermometer may be removed from a filled reservoir without loss of fluid
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum construction
- Buna N seals
- Borosilicate glass sight
- Zinc plated, steel hex nuts

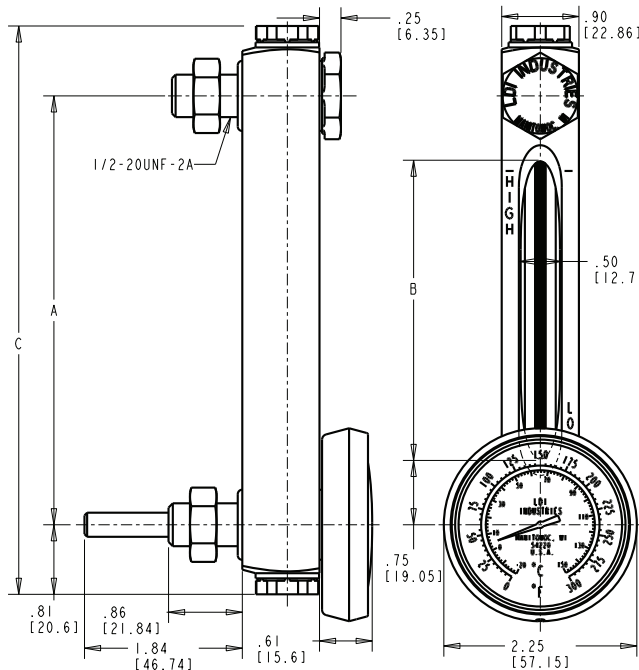
### Temperature and Pressure Ratings:

- Please refer to Appendix RA-1 on page RA-A1 for Sight Opening & Pressure Rating information
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



G645 Series		
A inches (mm)	B inches (mm)	C inches (mm)
5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
8.00 (203.20)	6.50 (165.10)	9.62 (244.35)
10.00 (254.00)	8.50 (215.90)	11.62 (295.15)
12.00 (304.80)	10.50 (266.70)	13.62 (345.95)



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

Select mounting centers of 5.00 inches (127.00 mm), 8.00 inches (203.20 mm) or 10.00 inches (254.00 mm) available from stock.

**Consult factory for other lengths**

### BODY MATERIAL

- A- Aluminum gage body (standard)
- B- Brass gage body (optional)
- S- Steel gage body (optional)
- Y- Stainless Steel gage body (optional)

### SEAL MATERIAL

- 1- Buna N seals (standard)
- 2- Butyl seals (optional)
- 3- Viton® seals (optional)
- 4- Ethylene propylene seals (optional)
- 5- Silicone seals (optional)

### HOW TO ORDER

#### EXAMPLE:

**G645-05-A-1** — Buna N Seals  
 Aluminum gage body  
 5.00 (127.00 mm) mounting centers  
 Series G645

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## G1615 SERIES

The G1615 Series front mount closed circuit sight gages provide front viewing of the fluid level through a clear glass sight. Integral to the sight gage is a thermometer contained within a white colored card for direct reading of the fluid temperature. The white colored card helps draw eye contact to the fluid level quickly.

### Standard Features:

- Front Mount
- Fluid level visible from front of gage (.75 inches wide)
- Clear glass sight
- Card thermometer (3.00 inch centerline only), dual scale 60° to 180°F and 20° to 80°C graduations
- Card thermometer (on 5.00 inch and 10.00 inch centerline), dual scale 0° to 220°F and -20° to 110°C graduations
- 1/2-20UNF mounting bolts accommodate reservoir wall thicknesses up to .62 inches
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum gage body and mounting bolts
- Buna N seals
- Borosilicate glass
- Red color alcohol within thermometer bulb
- Steel, zinc plated hex nuts

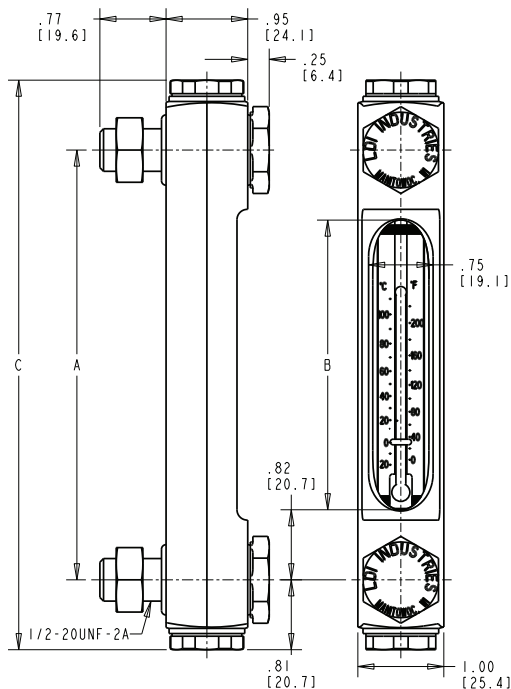
### Temperature and Pressure Ratings:

- Maximum working pressure up to 20 PSI (138 kPa) at 150°F (65°C), no corrosion
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTE:

- Please refer to Appendix RA-2 on page RA-A2 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



**NOTE:** All dimensions are inches [mm]

### ORDERING OPTIONS CODES:

#### BODY MATERIAL

-A- Aluminum gage body (standard)

#### SEAL MATERIAL

-1- Buna N seals (standard)  
-3- Viton® seals (optional)

#### OPTIONS:

- **EPDM Seals**
  - Specify -4 in place of -1 or -3 in catalog number
- **1/2-13 Coarse thread for mounting**
  - Specify "C" after the seal number
- **M12 x 1.75 thread for mounting**
  - Specify "M" after seal number
- **Consult factory for availability & price on blue fluid in thermometer**
  - Specify "B" after seal number (Not available for 3.00 [76.20mm] centers)

### HOW TO ORDER

#### EXAMPLE:

**G1615-10-A-1** — Buna N Seals  
Aluminum gage body  
10.00 (254.00 mm) mounting centers  
Series G1615

G1615 Series			
Part No.	A inches (mm)	B inches (mm)	C inches (mm)
<b>Buna N SEALS</b>			
<b>G1615-03-A-1</b>	3.00 (76.20)	1.37 (34.80)	4.62 (117.35)
<b>G1615-05-A-1</b>	5.00 (127.00)	3.37 (85.60)	6.62 (168.15)
<b>G1615-10-A-1</b>	10.00 (254.00)	8.37 (212.60)	11.62 (295.15)
<b>VITON® SEALS</b>			
<b>G1615-03-A-3</b>	3.00 (76.20)	1.37 (34.80)	4.62 (117.35)
<b>G1615-05-A-3</b>	5.00 (127.00)	3.37 (85.60)	6.62 (168.15)
<b>G1615-10-A-3</b>	10.00 (254.00)	8.37 (212.60)	11.62 (295.15)



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# SIGHT GAGES - CLOSED CIRCUIT

## G1620 SERIES

The G1620 Series back mount closed circuit sight gages provide front viewing of the fluid level through a clear sight glass. Integral to the sight gage is a thermometer contained within a white colored card for direct reading of the fluid temperature. The white colored card helps draw eye contact to the fluid level quickly.

### Standard Features:

- Back mount
- Fluid level visible from front of gage (.75 inches wide)
- Clear sight glass
- Card thermometer (3.00 inch centerline only), dual scale 60° to 180°F and 20° to 80°C graduations
- Card thermometer (5.00 inch and 10.00 inch centerline), dual scale 0° to 220°F and -20° to 110°C graduations
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum construction
- Buna N or Fluorocarbon (Viton®) seals
- Borosilicate glass sight
- Red color alcohol within thermometer bulb
- Zinc plated, steel locknuts

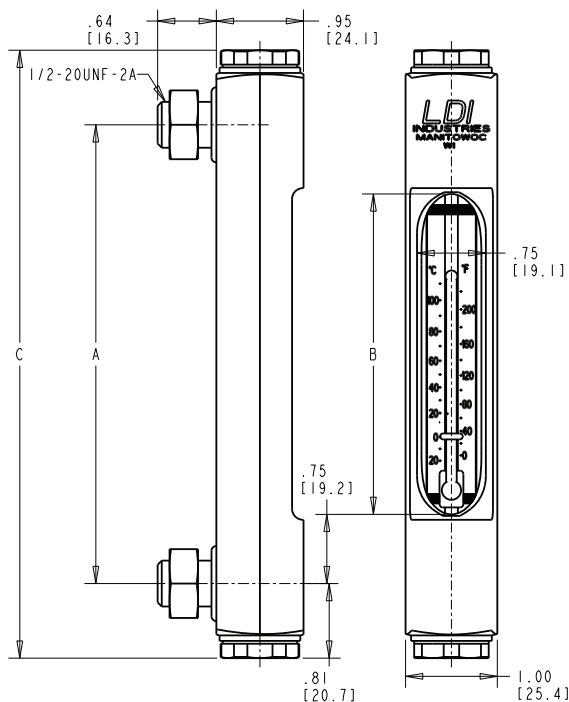
### Temperature and Pressure Ratings:

- 20 psi (138 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount this style sight gage.
- Please refer to Appendix RA-3 on page RA-A3 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



**NOTE:** All dimensions are inches [mm]

G1620 Series			
Part No.	A inches (mm)	B inches (mm)	C inches (mm)
<b>Buna N SEALS</b>			
<b>G1620-03-A-1</b>	3.00 (76.20)	1.37 (34.80)	4.62 (117.35)
<b>G1620-05-A-1</b>	5.00 (127.00)	3.37 (85.60)	6.62 (168.15)
<b>G1620-10-A-1</b>	10.00 (254.00)	8.37 (212.60)	11.62 (295.15)
<b>VITON® SEALS</b>			
<b>G1620-03-A-3</b>	3.00 (76.20)	1.37 (34.80)	4.62 (117.35)
<b>G1620-05-A-3</b>	5.00 (127.00)	3.37 (85.60)	6.62 (168.15)
<b>G1620-10-A-3</b>	10.00 (254.00)	8.37 (212.60)	11.62 (295.15)



### ORDERING OPTIONS CODES:

#### BODY MATERIAL

- A- Aluminum gage body (standard)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 3- Viton® seals (optional)

#### OPTIONS:

- **EPDM Seals**
  - Specify -4 in place of -1 or -3 in catalog number
- **Consult factory for availability & price on blue fluid in thermometer**
  - Specify "B" after seal number (Not available for 3.00 [76.20mm] centers)

### HOW TO ORDER

#### EXAMPLE:

**G1620-05-A-1** — Buna N Seals  
 — Aluminum gage body  
 — 5.00 (127.00 mm) mounting centers  
 — Series G1620

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT GAGES - CLOSED CIRCUIT

## SGC SERIES

The SGC Series front mount closed circuit sight gages provide front viewing of the fluid level through a clear sight glass. Integral to the sight gage is a thermometer contained within a white colored card for direct reading of the fluid temperature. The white colored card helps draw eye contact to the fluid level quickly. Check valves integral to mounting studs allow for removal of sight gage without having to drain the reservoir.

### Standard Features:

- Front mount
- Fluid level visible from front of gage (.75 inches wide)
- Clear sight glass
- Card thermometer, dual scale 0° to 220°F and -20° to 110°C graduations
- Mounting studs accommodate reservoir wall thicknesses up to .56 inches
- Suitable for use with most hydraulic and machine lubricating oils

### Standard Materials:

- Aluminum & Brass Construction
- Buna N seals
- Borosilicate glass sight

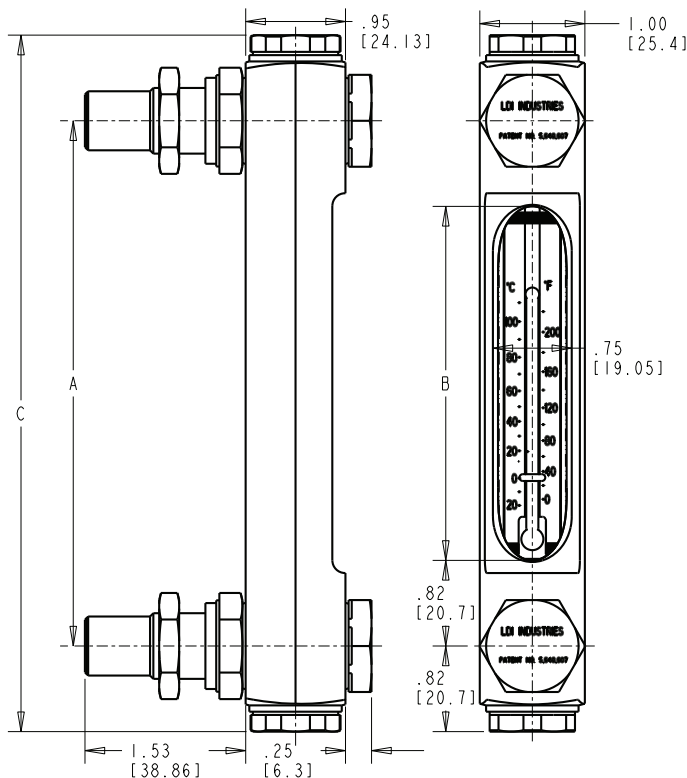
### Temperature and Pressure Ratings:

- 20 psi (138 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)

### NOTES:

- Access to inside of reservoir is required to mount studs with integral check valves.
- Please refer to Appendix RA-11 on page RA-A10 for installation instructions

**CAUTION:** • Not recommended for use with water, steam, acidic fluids, caustic fluids and volatile fluids



SGC Series			
Part No.	A Centers inches (mm)	B Sight inches (mm)	C Length inches (mm)
SGC5	5.00 (127.00)	3.50 (88.90)	6.62 (168.15)
SGC10	10.00 (254.00)	8.50 (215.90)	11.62 (295.15)



**NOTE:** All dimensions are inches [mm]

### HOW TO ORDER

#### EXAMPLE:

**SGC-10** — 10.00 inch (254.00 mm) mounting centers  
Series SGC

When ordering, specify either 5.00 inch (127.00mm) or 10.00 inch (254.00mm) mounting centers following the series number, separated with a dash(-).

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# SIGHT GAGES - CLOSED CIRCUIT

## TMA SERIES

TMA Series dial thermometers come in two assembly styles. TMA100 Series dial thermometers have a straight thread, bulkhead style mounting and the TMA200 Series dial thermometers mount directly into pipe threaded couplings.

### Standard Features - TMA100 Series:

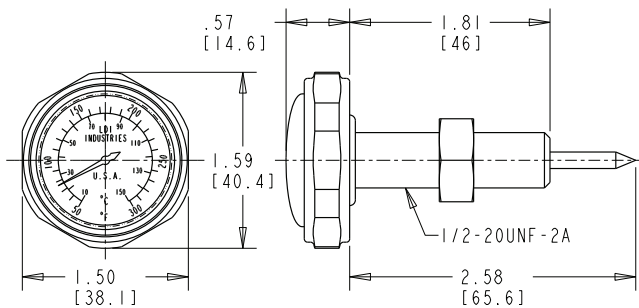
- An aluminum enclosure shields side of thermometer face
- 1.38 inch diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C
- Aluminum stud extends into reservoir to partially shield Stainless Steel thermometer probe
- Buna N o-rings
- Back mount
- Zinc plated hex jam nut

### NOTES:

- Access to inside of reservoir is required to mount the TMA100 Series thermometer
- For both TMA100 and TMA200 series, please refer to Appendix RA-12 on page RA-A12 for installation instructions

### Standard Materials:

- Aluminum construction
- Stainless Steel thermometer probe



**NOTE:** All dimensions are inches [mm]

TMA100 Series					
Part No.	A inches (mm)	B inches (mm)	C inches (mm)	D UNF	Scale
<b>TMA111-A-1</b>	1.50 (38.10)	1.59 (40.39)	.50 (12.70)	1/2-20	50° to 300° F 10° to 150° C

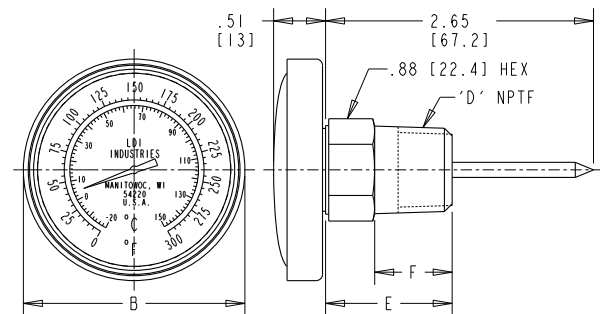


### Standard Features - TMA200 Series:

- An aluminum enclosure shields side of thermometer face
- 1.38 inch diameter dual scale dial thermometer, 50° to 300°F and 10° to 150°C (TMA202 & TMA204)
- 1.81 inch diameter dual scale dial thermometer, 0° to 300°F and -20° to 150°C (TMA214)
- Buna N o-rings
- Front mount - threads into pipe threaded coupling
- Brass pipe adapter

### Temperature and Pressure Ratings:

- 125 psi (862 kPa) maximum working pressure at 150°F (65°C)
- Please refer to Temperature Ratings by Seal Material for additional operating conditions (Appendix RA-5 on page RA-A5)



**NOTE:** All dimensions are inches [mm]

TMA200 Series					
Part No.	B inches (mm)	D NPTF	E inches (mm)	F inches (mm)	Scale
<b>TMA202-A-1</b>	1.45 (36.83)	1/4-18	1.06 (26.92)	.56 (14.22)	50° to 300° F 10° to 150° C
<b>TMA204-A-1</b>	1.45 (36.83)	1/2-14	1.25 (31.75)	.75 (19.05)	50° to 300° F 10° to 150° C
<b>TMA214-A-1</b>	2.19 (55.63)	1/2-14	1.25 (31.75)	.75 (19.05)	0° to 300° F -20° to 150° C



### ORDERING OPTIONS CODES FOR TMA200 SERIES:

#### BODY MATERIAL

- A- Aluminum body (standard)
- B- Brass construction (optional)

#### SEAL MATERIAL

- 1- Buna N seals (standard)
- 3- Viton ® seals (optional)

### HOW TO ORDER TMA200 SERIES

#### EXAMPLE:

**TMA202-A-1** — Buna N Seals  
— Aluminum body  
— Style Number

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# SIGHT PLUGS

## LSP51 SERIES

The LSP51 Series fused high pressure steel sight plug has a clear glass sight and male NPT thread connection. The fused, one-piece construction allows for higher operating temperatures and pressures. The sight plug can be accessorized with reflector and float ball. Boxed quantities may apply.

### Standard Features:

- Stud end sizes from 1/4 NPT to 2-11½ NPT
- Fused clear glass sight
- Electroless Nickel finish
- Available with open view, with reflector or with reflector and float ball

### Standard Materials:

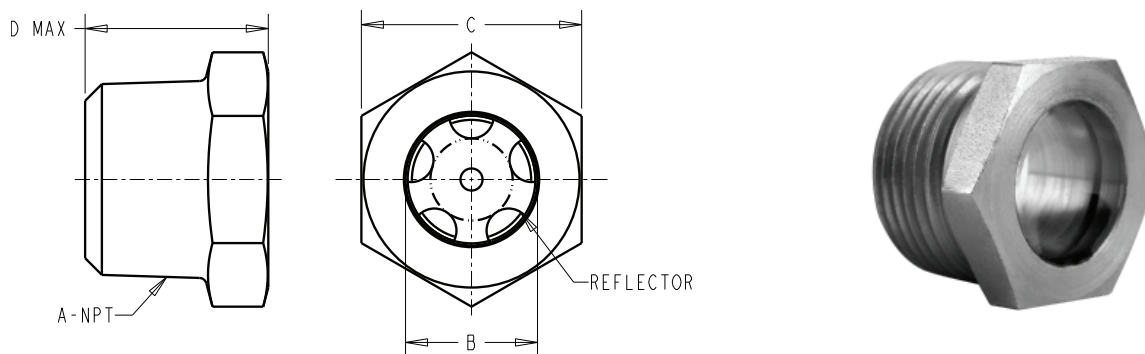
- Carbon steel construction
- Stainless Steel reflector (when applicable)

### Temperature and Pressure Ratings:

- Maximum operating temperature, 500°F (260°C)
- See chart below for pressure ratings

**CAUTION:**

- Do not use an impact wrench to install a sight plug
- Not recommended for steam applications
- Scratched glass significantly reduces the pressure rating of the sight plug



**NOTE:** All dimensions are inches (mm)

LSP51 Series							
Part No.		Min/Mult Box Quantity	A NPT	B inches (mm)	C inches (mm)	D inches (mm)	Max. Work. Pressure @ 69°F (20°C) PSI (kPa)
Open View	Reflector						
LSP51-02	-	25	1/4-18	.34 (8.64)	.62 (15.75)	.64 (16.26)	2000 (13790)
LSP51-03	LSP51-03-01	25	3/8-18	.44 (11.18)	.75 (19.05)	.73 (18.54)	1850 (12755)
LSP51-04	LSP51-04-01	25	1/2-14	.56 (14.22)	.94 (23.88)	.79 (20.07)	1750 (12066)
LSP51-05	LSP51-05-01	25	3/4-14	.75 (19.05)	1.06 (26.92)	.95 (24.13)	1500 (10342)
LSP51-06	LSP51-06-01	15	1-11 1/2	.94 (23.88)	1.38 (35.05)	1.07 (27.18)	1250 (8618)
LSP51-07	LSP51-07-01	15	1 1/4-11 1/2	1.19 (30.23)	1.75 (44.45)	1.23 (31.24)	1000 (6895)
LSP51-08	LSP51-08-01	10	1 1/2-11 1/2	1.44 (36.58)	2.00 (50.80)	1.23 (31.24)	750 (5171)
LSP51-09	LSP51-09-01	10	2-11 1/2	1.88 (47.75)	2.50 (63.50)	1.28 (32.77)	500 (3447)

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# SIGHT PLUGS

## LSP101 SERIES

The LSP101 Series low pressure aluminum sight plug inserts through a clearance hole and utilizes a lock nut assembled from within the reservoir to seal on a flange gasket. A clear glass sight provides good open view visibility with options to further enhance visibility by accessorizing the sight plug with combinations of reflector and float ball options. Access to inside of reservoir is required to secure the lock nut. Box quantities may apply.

### Standard Feature:

- Clear glass sight

### Standard Materials:

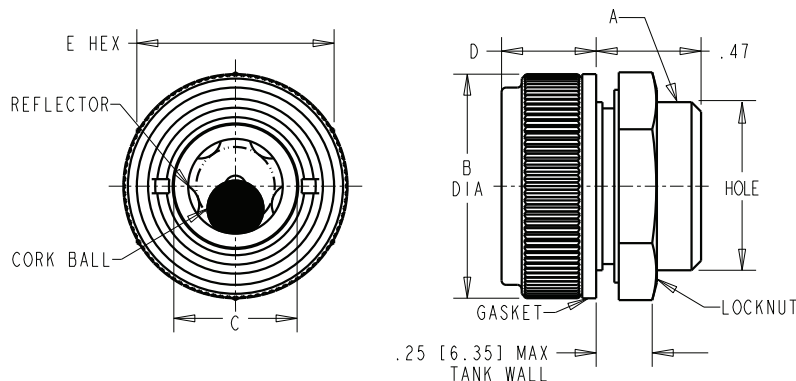
- Aluminum construction
- Buna N seals
- Soda lime glass sight
- Stainless Steel reflector (when applicable)
- Cork float ball

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 180°F (82°C).  
(For applications requiring maximum operating temperatures in excess of 180°F (82°C), consult factory for available options.)
- See chart below for pressure ratings

**CAUTION:**

- Do not use an impact wrench to install a sight plug
- Not recommended for steam applications
- Scratched glass significantly reduces the pressure rating of the sight plug



**NOTE:** All dimensions are inches (mm)

LSP101 Series										
Open View	Part No.	Reflector and Ball	Min/Mult Box Quantity	A	Hole Dia* inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	Max. Work. Pressure @ 69 °F (20 °C) PSI (kPa)
LSP101-04	LSP101-04-01	LSP101-04-02	25	3/4-27	.75 (19.05)	1.00 (25.40)	.55 (13.97)	.42 (10.67)	.88 (22.35)	50 (345)
LSP101-06	LSP101-06-01	LSP101-06-02	25	1-24	1.00 (25.40)	1.25 (31.75)	.75 (19.05)	.42 (10.67)	1.12 (28.45)	50 (345)
LSP101-08	LSP101-08-01	LSP101-08-02	15	1 1/4-24	1.25 (31.75)	1.50 (38.10)	.94 (23.88)	.42 (10.67)	1.38 (35.05)	25 (172)
LSP101-13	LSP101-13-01	LSP101-13-02	10	1 7/8-24	1.88 (47.75)	2.12 (53.85)	1.38 (35.05)	.62 (15.75)	2.00 (50.80)	25 (172)
LSP101-17	LSP101-17-01	LSP101-17-02	10	2 3/8-24	2.38 (60.45)	2.62 (66.55)	1.88 (47.75)	.62 (15.75)	2.62 (66.55)	10 (69)

\* tolerance  $+ .02 / - .00$  ( $+ 0.5 / - .00$ )

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# SIGHT PLUGS

## LSP151 SERIES

The LSP151 Series low pressure brass sight plug has a clear glass sight and male PTF pipe thread connection. Designed to be an economical alternative to high performance fused sight plugs, the LSP151 Series sight plug features a tamper resistant construction and can be accessorized with reflector and float ball. Box quantities may apply.

### Standard Features:

- Stud end sizes from 1/4 inch NPT to 2-11½ inch NPT
- Clear glass sight
- Available open view, with reflector or with reflector and float ball

### Standard Materials:

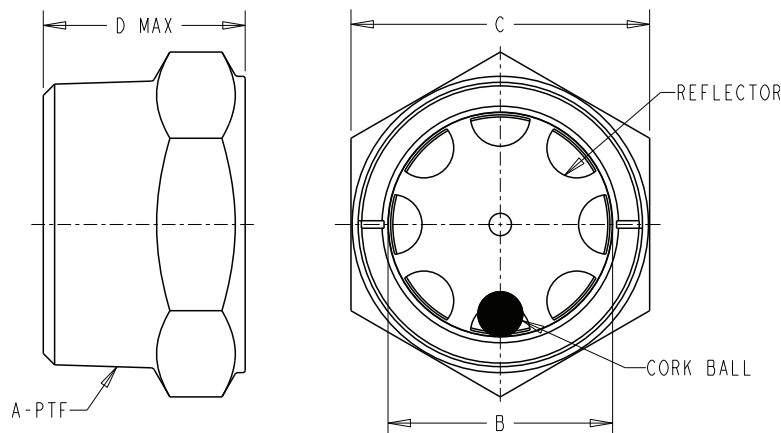
- Brass construction
- Soda lime glass sight
- Buna N seals
- Stainless Steel reflector (when applicable)
- Cork float ball (when applicable)

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 180°F (82°C).  
(For applications requiring maximum operating temperatures in excess of 180°F (82°C), consult factory for available options.)
- See chart below for pressure ratings

**CAUTION:**

- Do not use an impact wrench to install a sight plug
- Not recommended for steam applications
- Scratched glass significantly reduces the pressure rating of the sight plug



LSP151 Series								
Open View	Part No.		Min/Mult Box Quantity	A PTF	B inches (mm)	C inches (mm)	D inches (mm)	Max. Work. Pressure
	Reflector	Reflector and Ball						@ 69° F (20° C) PSI (kPa)
LSP151-02	-	-	25	1/4-18	.34 (8.64)	.62 (15.75)	.79 (20.07)	150 (1034)
LSP151-03	LSP151-03-01	LSP151-03-02	25	3/8-18	.44 (11.18)	.75 (19.05)	.86 (21.84)	100 (690)
LSP151-04	LSP151-04-01	LSP151-04-02	25	1/2-14	.56 (14.22)	.88 (22.35)	1.01 (25.65)	100 (690)
LSP151-05	LSP151-05-01	LSP151-05-02	25	3/4-14	.75 (19.05)	1.12 (28.45)	1.01 (25.65)	60 (414)
LSP151-06	LSP151-06-01	LSP151-06-02	15	1-11 1/2	.94 (23.88)	1.44 (36.58)	1.24 (31.50)	60 (414)
LSP151-07	LSP151-07-01	LSP151-07-02	15	1 1/4-11 1/2	1.19 (30.23)	1.75 (44.45)	1.42 (36.07)	25 (172)
LSP151-08	LSP151-08-01	LSP151-08-02	10	1 1/2-11 1/2	1.44 (36.58)	2.00 (50.80)	1.52 (38.61)	25 (172)
LSP151-09	LSP151-09-01	LSP151-09-02	10	2-11 1/2	1.88 (47.75)	2.50 (63.50)	1.70 (43.18)	10 (69)

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# SIGHT PLUGS

## LSP201 SERIES

The LSP201 Series medium pressure brass sight plug has a clear glass sight and male PTF pipe thread connection. Designed to be an economical alternative to high performance fused sight plugs and with pressure ratings exceeding the LSP151 Series. The LSP201 Series sight plug features a tamper resistant construction and can be accessorized with reflector and float ball. Box quantities may apply.

### Standard Features:

- Stud end sizes from 1/4 NPT to 2-11½ NPT
- Clear glass sight
- Available with open view, with reflector or with reflector and float ball

### Standard Materials:

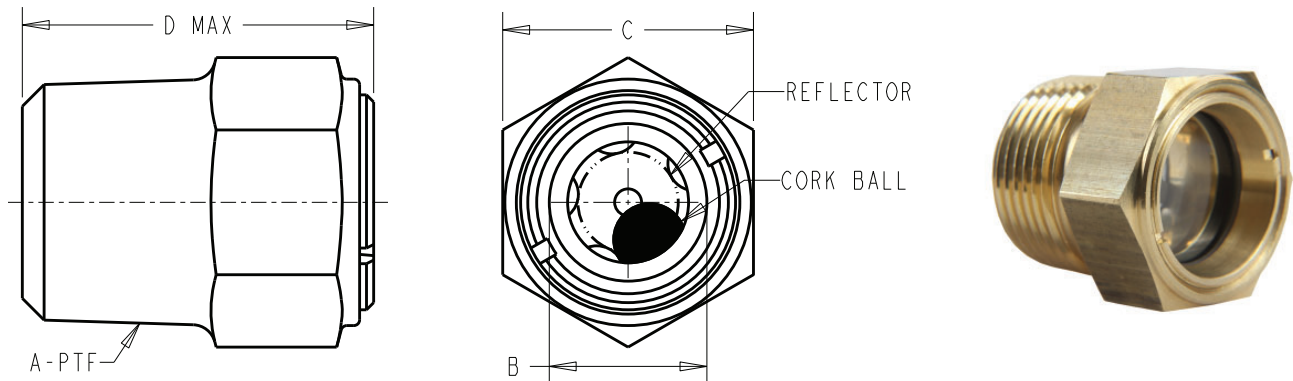
- Brass construction
- Stainless Steel reflector (when applicable)
- Cork float ball (when applicable)

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 180°F (82°C).  
(For applications requiring maximum operating temperatures in excess of 180°F (82°C), consult factory for available options.)
- See chart below for pressure ratings

**CAUTION:**

- Do not use an impact wrench to install a sight plug
- Not recommended for steam applications
- Scratched glass significantly reduces the pressure rating of the sight plug



LSP201 Series								
Open View	Part No. Reflector	Reflector and Ball	Min/Mult Box Quantity	A PTF	B inches (mm)	C inches (mm)	D inches (mm)	Max. Work. Pressure @ 69°F (20°C) PSI (kPa)
LSP201-02	-	-	25	1/4-18	.33 (8.38)	.62 (15.75)	1.10 (27.94)	675 (4654)
LSP201-03	LSP201-03-01	LSP201-03-02	25	3/8-18	.44 (11.18)	.75 (19.05)	1.12 (28.45)	415 (2861)
LSP201-04	LSP201-04-01	LSP201-04-02	25	1/2-14	.56 (14.22)	.88 (22.35)	1.16 (29.46)	250 (1724)
LSP201-05	LSP201-05-01	LSP201-05-02	25	3/4-14	.75 (19.05)	1.12 (28.45)	1.28 (32.51)	200 (1379)
LSP201-06	LSP201-06-01	LSP201-06-02	15	1-11 1/2	.94 (23.88)	1.44 (36.58)	1.48 (37.59)	100 (690)
LSP201-07	LSP201-07-01	LSP201-07-02	15	1 1/4-11 1/2	1.12 (28.45)	1.75 (44.45)	1.54 (39.12)	60 (414)
LSP201-08	LSP201-08-01	LSP201-08-02	10	1 1/2-11 1/2	1.38 (35.05)	2.00 (50.80)	1.57 (39.88)	50 (345)
LSP201-09	LSP201-09-01	LSP201-09-02	10	2-11 1/2	1.88 (47.75)	2.50 (63.50)	1.70 (43.18)	20 (138)

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# SIGHT PLUGS

## LSP501 SERIES

The LSP501 Series low pressure aluminum sight plug has a clear glass or polycarbonate sight and a reflector machined into the plug body. Sight options include screen printed level lines. An economical alternative to threaded sight plugs requiring only a reamed hole or equivalent to provide a secure fit. Box quantities may apply.

### Standard Features:

- Sight: Clear or with level lines
- Available in sight material and level line combinations

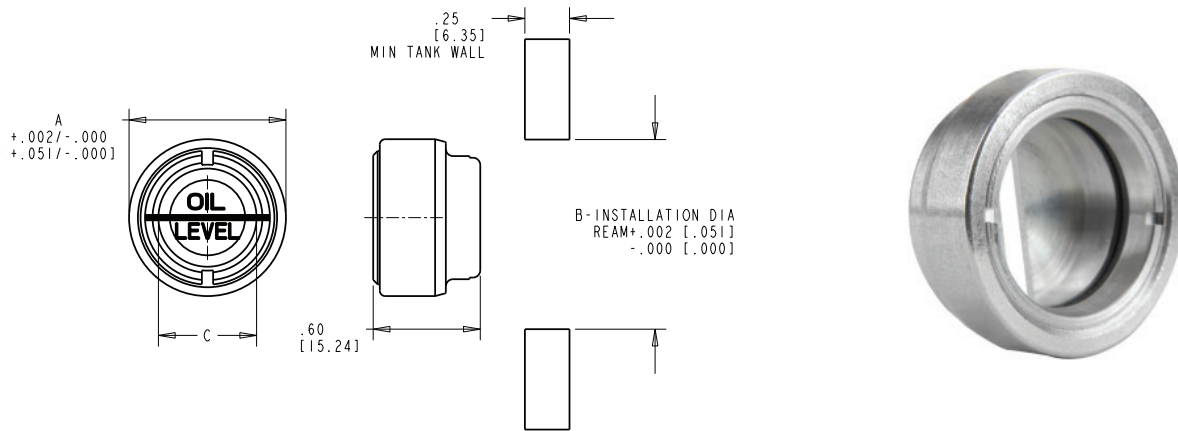
### Standard Materials:

- Aluminum construction
- Buna N seals (other seal material is available - please specify )
- Soda lime glass or polycarbonate sight material

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 180°F (82°C).  
(For applications requiring maximum operating temperatures in excess of 180°F (82°C), consult factory for available options.)
- 25 psi (172 kPa) maximum operating pressure at 69°F (20°C)

**CAUTION:** • Not recommended for steam applications  
• Scratched glass significantly reduces the pressure rating of the sight plug



**NOTE:** All dimensions are inches [mm]

LSP501 Series					
Part No.			A	B	C
No Fluid Level Line	With Fluid Level Line	Min/Mult Box Quantity	inches (mm)	inches (mm)	inches (mm)
-	LSP501-07RPL	25	.878 (22.301)	.875 (22.225)	.55 (13.97)
-	LSP501-08RGL	25	1.003 (25.476)	1.000 (25.400)	.66 (16.76)
-	LSP501-10RPL	25	1.253 (31.826)	1.250 (31.750)	.75 (19.05)
-	LSP501-12RPL	15	1.503 (38.176)	1.500 (38.100)	1.00 (25.40)
LSP501-16RP	-	15	2.003 (50.876)	2.000 (50.800)	1.56 (39.62)

### Suffixes

- R** = Reflector
- RP** = Reflector, polycarb sight
- RGL** = Reflector, glass sight , level line
- RPL** = Reflector, polycarb sight, level

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# SIGHT PLUGS

## LSP701 SERIES

The LSP701 Series low pressure aluminum sight plug has a clear glass sight with 4-bolt flange mounting pad. The sight plug installs through a clearance hole and utilizes a flange gasket compressed uniformly with four socket head cap screws to create a low profile assembly. Access to inside of reservoir is not required. Box quantities may apply.

### Standard Features:

- Clear glass sight
- (4) Socket Head Cap Screws

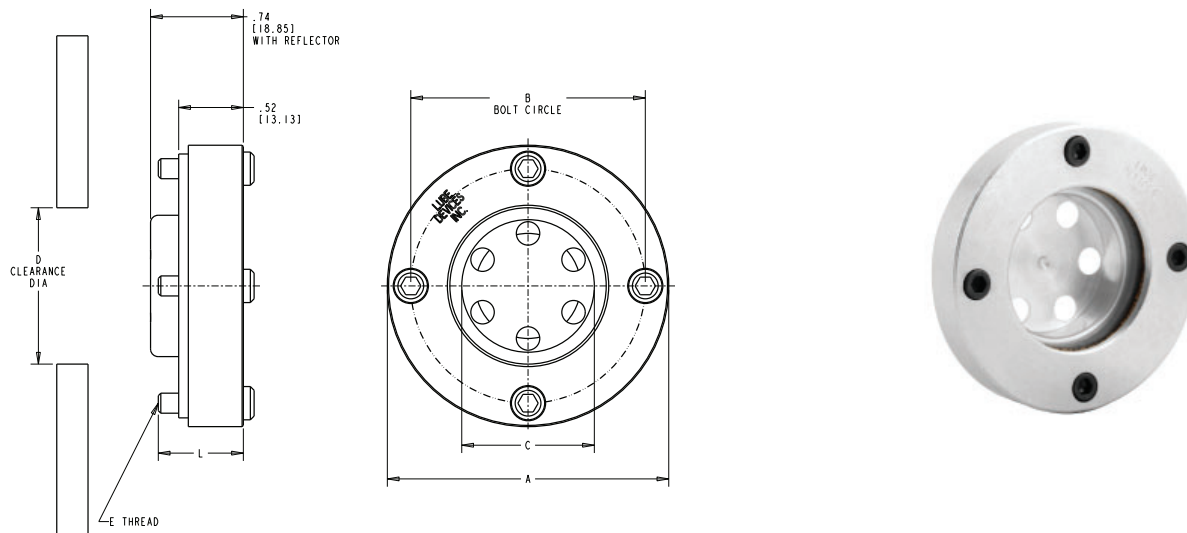
### Standard Materials:

- Plug and reflector material: Aluminum
- Seal Material: Buna N filled Cork
- Sight material: Soda lime glass

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 250°F (121°C).  
(For applications requiring maximum operating temperatures in excess of 250°F (121°C), consult factory for available options.)
- 10 psi (69 kPa) maximum operating pressure at 69°F (20°C)

**CAUTION:** • Not recommended for steam applications  
• Scratched glass significantly reduces the pressure rating of the sight plug



**NOTE:** All dimensions are inches [mm]

LSP701 Series						
Part No.	A inches (mm)	B inches (mm)	C inches (mm)	D inches (mm)	E thread	L inches (mm)
LSP701-10-01	2.25 (57.15)	1.88 (47.75)	1.06 (26.92)	1.25 (31.75)	8-32UNF	.68 (17.27)
LSP701-12-01	2.62 (66.55)	2.16 (54.86)	1.31 (33.27)	1.50 (38.10)	8-32UNF	.68 (17.27)
LSP701-16-01	3.25 (82.55)	2.69 (68.33)	1.81 (45.97)	2.00 (50.80)	10-32UNF	.70 (17.78)

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Pg RA-134

# SIGHT PLUGS

## LSP1301 SERIES

The LSP1301 Series low pressure steel sight plug has a clear glass sight and male SAE straight thread connection. Designed to be an economical alternative to high performance fused sight plugs, the LSP1301 Series sight plug features a tamper resistant construction with the reliability of an o-ring seal. The sight plug can be accessorized with reflector, float ball and choice of tank seal material. Box quantities may apply.

### Standard Features:

- Stud end sizes from dash 08 (3/4-16UNF) to dash 28 (2 1/4-12UN) per SAE J1926/3
- Clear glass sight
- Zinc clear finish
- Available with open view or combination of reflector, float ball and tank seal

### Standard Materials:

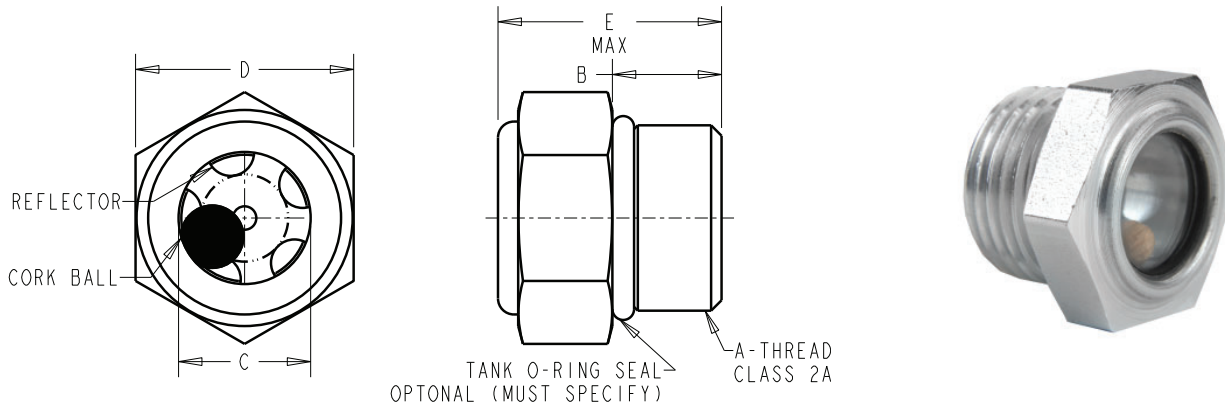
- Carbon steel construction
- Glass sight
- Stainless Steel reflector (when applicable)
- Cork float ball (when applicable)

### Temperature and Pressure Ratings:

- Maximum operating temperature up to 180°F (82°C).  
(For applications requiring maximum operating temperatures in excess of 180°F (82°C), consult factory for available options.)
- See chart below for pressure ratings

**CAUTION:**

- Do not use an impact wrench to install a sight plug
- Not recommended for steam applications
- Scratched glass significantly reduces the pressure rating of the sight plug



LSP1301 Series									
Part No.		Reflector and Ball	Min/Mult Box Quantity	A thread	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	Max. Work. Pressure @ 69°F (20°C) PSI (kPa)
Open View	Reflector								
LSP1301-08	LSP1301-08-01	LSP1301-08-02	25	3/4-16UNF	.44 (11.18)	.56 (14.22)	.88 (22.35)	.91 (23.11)	75 (517)
LSP1301-12	LSP1301-12-01	LSP1301-12-02	25	1 1/16-12UN	.59 (14.99)	.77 (19.56)	1.25 (31.75)	1.05 (26.67)	75 (517)
LSP1301-16	LSP1301-16-01	LSP1301-16-02	15	1 5/16-12UN	.59 (14.99)	.96 (24.38)	1.50 (38.10)	.99 (25.15)	75 (517)
LSP1301-24	LSP1301-24-01	LSP1301-24-02	10	1 7/8-12UN	.59 (14.99)	1.44 (36.58)	2.00 (50.80)	1.17 (29.72)	20 (138)

### ORDERING OPTIONS CODES:

#### Tank O-Ring Seal Codes:

- TB- Buna N seals
- TV- Viton® seals

### HOW TO ORDER

#### EXAMPLE:

**LSP1301-12 TB-01** - Reflector  
Tank O-Ring Seal  
1 1/16-12UN  
Series LSP1301

Dimensions and specifications are subject to change without notice. Not all items are Made-To-Stock, contact us for availability.

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# SIGHT PLUGS

## LSP1351 SERIES

The LSP1351 Series fused high pressure steel sight plug has a clear glass sight and male SAE straight thread connection. The fused, one-piece construction allows for higher operating pressures. The sight plug can be accessorized with reflector and float ball. The material choice for o-ring tank seal typically determines the operating temperature range for this series sight plug. Box quantities may apply.

### Standard Features:

- Stud end sizes from dash 04 (7/16-20UNF) to dash 28 (2¼-12UN) per SAE J1926/3
- Fused clear glass sight
- Electroless Nickel finish
- Available with reflector and float ball or just reflector

### Standard Materials:

- Carbon steel construction
- Glass sight
- Stainless Steel reflector (when applicable)
- Cork float ball (when applicable)

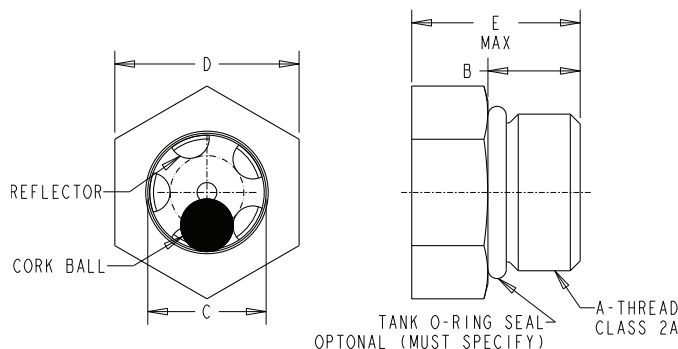
### Temperature Ratings:

- Temperature ratings vary by material selection for o-ring tank seal. Consult Temperature Ratings by Seal Material in appendix (see Appendix RA-5)

**CAUTION:** • Do not use an impact wrench to install a sight plug

• Not recommended for steam applications

• Scratched glass significantly reduces the pressure rating of the sight plug



### ORDERING OPTIONS CODES:

#### Tank O-Ring Seal Codes:

- TB- Buna N seals
- TV- Viton® seals

### HOW TO ORDER

#### EXAMPLE:

**LSP1351-08 TB-01** - Reflector  
 Tank O-Ring Seal  
 3/4-16UNF Thread  
 Series LSP1351



LSP1351 Series									
Open View	Part No. Reflector	Reflector With Ball	Min/Mult Box Quantity	A thread	B inches (mm)	C inches (mm)	D inches (mm)	E inches (mm)	Max. Work. Pressure @ 69°F (20°C) PSI (kPa)
LSP1351-04	-	-	25	7/16-20UNF	.36 (9.14)	.28 (7.11)	.56 (14.27)	.67 (17.02)	2000 (13790)
LSP1351-05	-	-	25	1/2-20UNF	.36 (9.14)	.34 (8.64)	.62 (15.88)	.67 (17.02)	1900 (13100)
LSP1351-06	-	-	25	9/16-18UNF	.39 (9.91)	.38 (9.65)	.69 (17.48)	.73 (18.54)	1850 (12756)
LSP1351-08	LSP1351-08-01	LSP1351-08-02	25	3/4-16UNF	.44 (11.18)	.56 (14.22)	.88 (22.35)	.81 (20.57)	1750 (12066)
LSP1351-10	-	-	25	7/8-14UNF	.50 (12.70)	.64 (16.26)	1.00 (25.40)	.84 (21.34)	1600 (6232)
LSP1351-12	LSP1351-12-01	LSP1351-12-02	25	1 1/16-12UN	.59 (14.99)	.75 (19.05)	1.25 (31.75)	.92 (23.37)	1500 (10342)
LSP1351-16	-	-	15	1 5/16-12UN	.59 (14.99)	1.05 (26.67)	1.50 (38.10)	1.02 (25.91)	1050 (7240)
LSP1351-20	-	-	15	1 5/8-12UN	.59 (14.99)	1.19 (30.23)	1.88 (47.75)	1.10 (27.94)	900 (6205)
LSP1351-24	-	-	10	1 7/8-12UN	.59 (14.99)	1.62 (41.15)	2.12 (53.98)	1.12 (28.45)	600 (4137)
LSP1351-28	LSP1351-28-01	LSP1351-28-02	10	2 1/4-12UN	.63 (16.00)	1.88 (47.75)	2.50 (63.50)	1.03 (26.16)	500 (3448)

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# SUCTION STRAINERS

## PSS SERIES (NYLON HEX)

PSS Series (Nylon Hex) Suction Strainers offer reliable, low-cost filtering of petroleum base hydraulic fluids, phosphate esters, water glycols, lubricating oils, coolants, fuels and water in fluid reservoirs, sumps and similar applications.

### Standard Features:

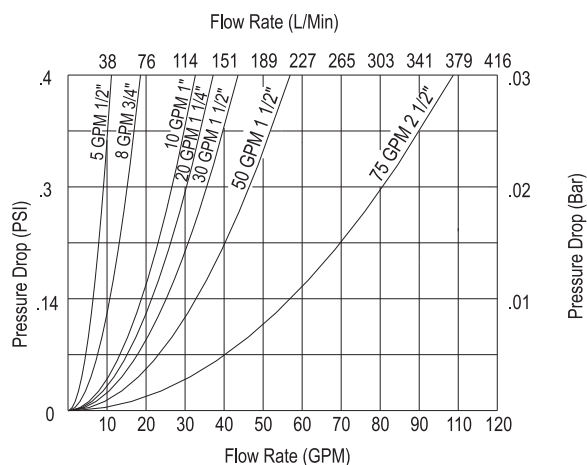
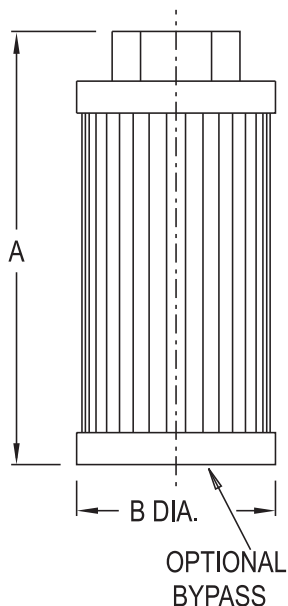
- Cap assembly epoxy bonded to body for superior strength
- One piece, high strength Nylon hex cap
- Re-usable
- Easily cleaned in non-caustic solvent
- Nominal filter rating of 140 microns

### Standard Materials:

- Nylon fitting
- Pleated 100 mesh stainless wire cloth
- Steel support tube

### Ordering Information:

- To specify 3 PSI By-Pass option, add-RV3 to Part Number



PSS Series									
Part No.	Nominal Flow		Port NPT (inch)	Filter Area		Dimensions			
	GPM	L/min		in	cm	A		B	
						in	mm	in	mm
PSS5*	5	19	1/2	25	161	4.19	106	1.90	48
PSS8	8	31	3/4	40	258	4.19	106	2.70	67
PSS10	10	38	1	70	451	5.60	140	2.70	67
PSS20	20	88	1 1/4	128	825	5.38	137	3.40	86
PSS30*	30	120	1 1/2	128	825	5.50	140	3.40	86
PSS50*	50	198	1 1/2	200	1290	8.00	200	4.00	100
PSS100	100	379	3	376	2425	10.90	272	5.20	130

\*By-Pass not available on this model

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# SUCTION STRAINERS

## SS SERIES (STEEL)

SS Series (Steel) Suction Strainers offer a reliable, low-cost filtering of petroleum base hydraulic fluids, phosphate esters, water glycols, lubricating oils, coolants, fuels and water in fluid reservoirs, sumps and similar applications.

### Standard Features:

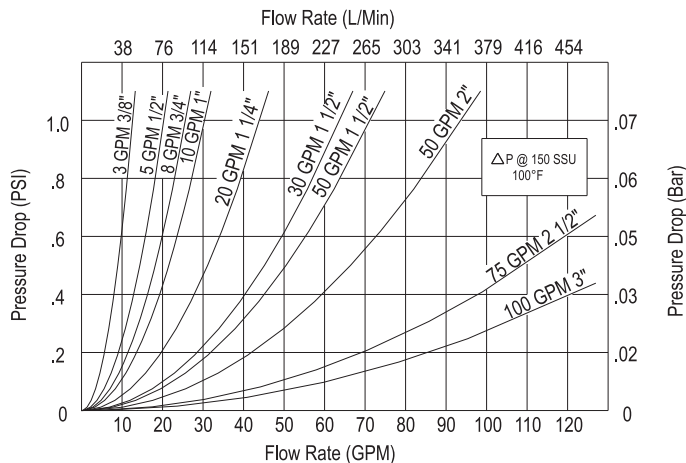
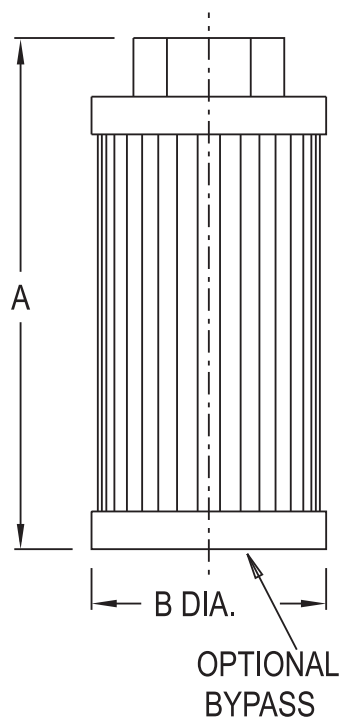
- Cap assembly epoxy bonded to body for superior strength
- Re-usable
- Easily cleaned in non-caustic solvent
- Nominal filter rating of 140 microns

### Standard Materials:

- Plated steel end cap
- Pleated 100 mesh stainless wire cloth
- Steel support tube

### Ordering Information:

- To specify 3 PSI By-Pass option, add-RV3 to Part Number



Series SS									
Part No.	Nominal Flow		Port NPT (inch)	Filter Area		Dimensions			
	GPM	L/min.		in	cm	A		B	
						in	mm	in	mm
SS3*	3	11	3/8	34	220	2.25	57	1.90	48
SS5	5	19	1/2	62	400	3.10	78	2.70	67
SS8	8	31	3/4	62	400	3.50	89	2.70	67
SS10	10	38	1	110	710	5.40	136	2.70	67
SS20	20	88	1 1/4	162	1050	6.90	174	3.40	86
SS30	30	120	1 1/2	225	1450	8.10	204	3.40	86
SS50	50	198	1 1/2	340	2190	10.00	225	4.00	100
SS51	50	198	2	340	2190	10.00	225	4.00	100
SS75	75	283	2 1/2	400	2580	10.10	257	5.20	130
SS100	100	379	3	500	3230	11.63	295	5.20	130

\*By-Pass not available on this model

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# SUCTION STRAINERS

## SSTM SERIES — TANK MOUNTED

SSTM Series Tank Mounted Suction Strainers offer easy installation. Access to reservoir interior is not required. You can mount these units through a sidewall.

### Standard Features:

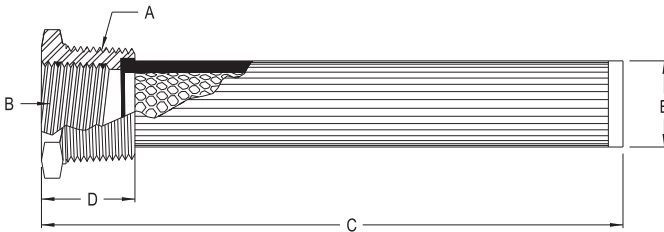
- Epoxy bonded bushing
- Nominal filter rating of 140 microns

### Standard Materials:

- Cast iron bushing
- Pleated 100 mesh stainless wire cloth
- Steel support tube

### Ordering Information:

- To specify 5 PSI By-Pass option, add-RV5 to Part Number



SSTM Series											
Part No.	GPM Rating	A NPT (inch)	B NPT (inch)	Dimensions							
				C		D		E		Screen Area	
				in	mm	in	mm	in	mm	in <sup>2</sup>	cm <sup>2</sup>
<b>SSTM5</b>	5	1	1/2	5.34	136.00	1.06	27.00	1.17	30.00	35.00	225.00
<b>SSTM10</b>	10	1 1/4	3/4	8.17	207.00	1.20	30.00	1.36	34.00	64.00	412.00
<b>SSTM15</b>	15	1 1/2	1	8.20	208.00	1.22	31.00	1.66	42.00	86.00	554.00
<b>SSTM25</b>	25	2	1 1/4	9.04	230.00	1.35	34.00	2.12	54.00	125.00	806.00
<b>SSTM50</b>	50	3	2	9.70	246.00	1.70	43.00	3.00	76.00	260.00	1328.00
<b>SSTM100</b>	100	4	3	11.30	287.00	1.80	46.00	4.00	102.00	315.00	2032.00

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# TANK MAGNETS

*LDI Tank Magnets Pay Off For You* because they pick-up material that ordinary filters miss. Tank Magnets help maintain clean oil. The cleaner the oil can be kept in your reservoirs, the less your troubles will be and the greater your savings will be.

**REGULAR TANK MAGNETS** – This Heavy Duty model uses 5/8 inch solid steel rod, furnished with a 5 inch support rod. However, these support rods can be ordered any length desired, either shorter or longer than 5 inches to suit the reservoir. Heavy Duty comes with the end threaded 5/8-18 NF. The support rod can also be furnished with special threads or with special means of attachment brazed on. Pipe plugs are optional and are furnished in 2 1/2 inch NPT size. The recommended opening that will accommodate the unit is a 2 1/2 inch pipe flange or a hole approximately 2 1/4 inches in diameter. If desired, it can be installed in the cover of any opening larger than this.

**Construction** – The magnetic unit of the LDI Tank Magnet is exceptionally efficient. Each section is composed of a larger doughnut shaped ceramic magnet and two disc shaped pole pieces. This unique design adds the area of the discs to the area of the magnets to give the greatest amount of magnetic surface possible. This design also permits the hydraulic fluid to flow in and around the magnets and discs, thus allowing the oil to come in intimate contact with the magnets and discs to facilitate the removal of ferrous particles.

**SLIM LINE TANK MAGNETS** consists of Alnico V Magnets encased in a non-magnetic tube with the major difference between it and regular tank magnet being that it is only 5/8 inch in diameter. This means that it can be put through a hole tapped for 3/4 inch pipe plug and can be used where mounting space is a premium. Slim Line Tank Magnets come in two types, the **Slim Line** and **Extra Sturdy Slim Line**, with standard aluminum or optional Stainless Steel housings. The aluminum housing series are numbers SL-11, etc. for the Slim Lines and SLX-11, etc. for the Extra Sturdy lines. To designate the Stainless Steel housing units, SS is added after the appropriate catalog number, i.e., SLX-13 SS.

**Construction – Magnetic units** – Basically the same for all types of Slim Lines, the magnetic units vary only in length. **Support rods** – All Slim Lines are normally furnished with a 5 inch long support rod, but can be furnished with any length, either longer or shorter than the standard 5 inch length. **Housing** – Slim Lines come with aluminum housing for use with ordinary hydraulic fluids. For use where conditions might cause problems such as water glycols or phosphate esters, a Stainless Steel housing is provided. **Mounting** – Pipe plugs for mounting in the reservoir top are optional and are furnished in any size from 3/4 inch NPT to 3 inch NPT, with a 1 1/4 inch NPT or larger being recommended.

**Application** – For greatest protection – Use a size such, that the magnetic unit extends from 1 inch off the floor of the reservoir to the top of the oil level.

For lowest cost – Use a standard unit of any series for all sizes of reservoirs. Position is 1 inch from the bottom of the reservoir with proper length support rod.

No maintenance is needed except for periodic cleaning, with cleaning once a month recommended. To clean, remove from the reservoir, wipe with a clean cloth and reinstall.

## WHICH ONE SHOULD I USE?

### STANDARD

When...

- The support rod is short
- The magnetic unit is small
- Normal use can be expected
- Cost is important

### HEAVY DUTY

When...

- The support rod is greater than 12 inches
- The magnetic unit is large
- Abuse in shipping or operation is expected
- A little more can be spent

## CLEANING

Cleaning a Tank Magnet couldn't be easier. An ordinary air hose using shop compressed air does the job in seconds.

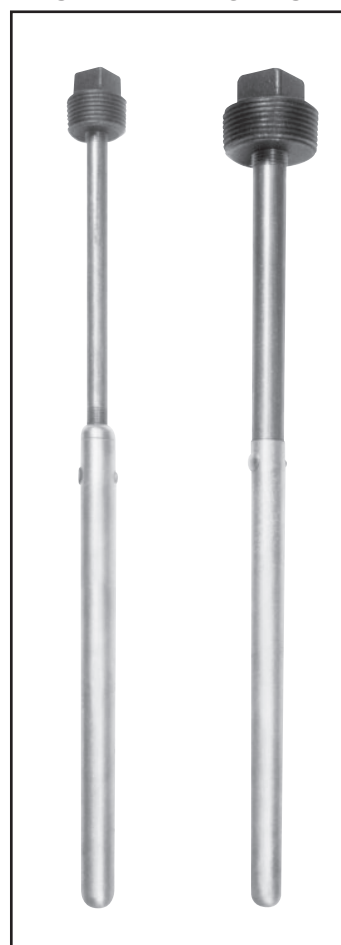
### STANDARD MAGNETS



Cat. No.  
HMD-13  
with 9 inch  
support rod  
and 2 1/2 inch  
pipe plug  
HEAVY DUTY

Cat. No.  
TM-14  
with 5 inch  
support rod  
and 2 1/2 inch  
pipe plug  
STANDARD

### SLIM LINE MAGNETS



Cat. No.  
SL-18-5  
with 5 inch  
support rod  
and 1 1/4 inch  
pipe plug  
STANDARD

Cat. No.  
SLX-18  
with 5 inch  
support rod  
and 1 1/4 inch  
pipe plug  
HEAVY DUTY

# TANK MAGNETS

Tank Magnets are used in conjunction with conventional filter systems. When used properly as a backup to a filter system they help trap small ferrous particles that may be missed by the filtration system.

## Standard Features:

### TM Series:

- Doughnut shaped ceramic magnets
- Use with PM-250 plug (2.50 inch NPT)

### HDM Series:

- Doughnut shaped ceramic magnets
- Use with PM-250HD plug (2.50 inch NPT)

### SL Series:

- Aluminum housing
- Use with PM-125 plug (1.25 inch NPT)

### SLX Series:

- Aluminum housing
- Use with PM-125X plug (1.25 inch NPT)

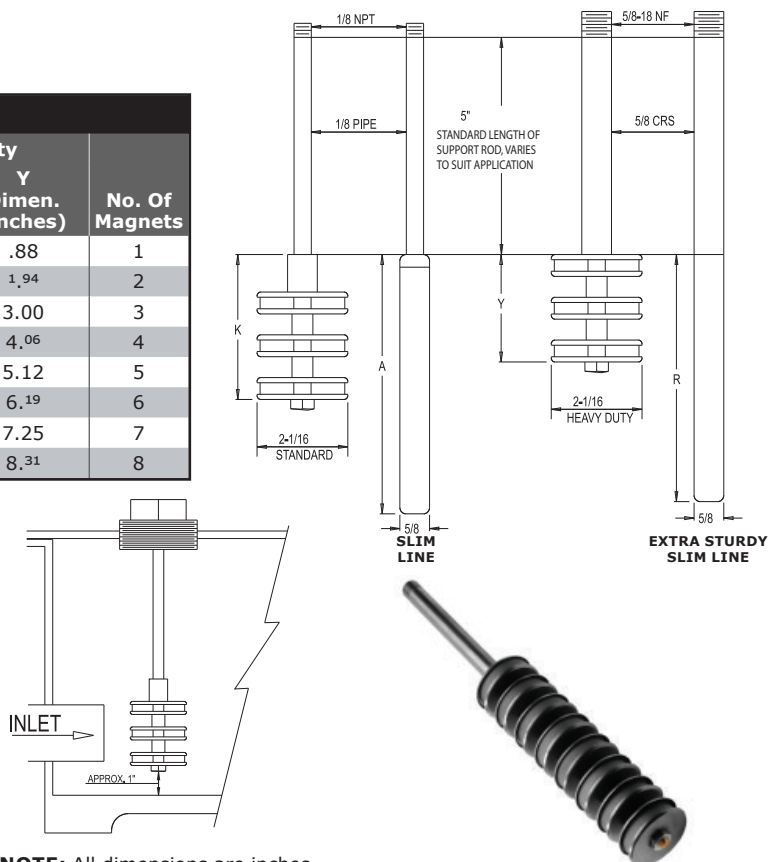
### Magnetic Plugs:

- Steel body
- Ceramic magnet
- Permanent magnet fastened to plug body

Standard / Heavy Duty					
Reservoir Capacity (gal)	Standard Part No.	K Dimen. (inches)	Heavy Duty Part No.	Y Dimen. (inches)	No. Of Magnets
0-10	<b>TM-6</b>	1.62	<b>HDM-6</b>	.88	1
10-30	<b>TM-7</b>	2.69	<b>HDM-7</b>	1.94	2
30-60	<b>TM-9</b>	3.75	<b>HDM-8</b>	3.00	3
60-100	<b>TM-10</b>	4.81	<b>HDM-9</b>	4.06	4
100-150	<b>TM-11</b>	5.88	<b>HDM-10</b>	5.12	5
150-210	<b>TM-12</b>	6.94	<b>HDM-11</b>	6.19	6
210-280	<b>TM-13</b>	8.00	<b>HDM-12</b>	7.25	7
280-350	<b>TM-14</b>	9.06	<b>HDM-13</b>	8.31	8

Slim Line / Extra Sturdy Slim Line			
Slim Line		Extra Sturdy Slim Line	
Part No.	A Dimen. (inches)	Part No.	R Dimen. (inches)
<b>SL-11</b>	6.00	<b>SLX-11</b>	5.75
<b>SL-13.5</b>	8.50	<b>SLX-13</b>	8.25
<b>SL-16</b>	11.00	<b>SLX-16</b>	10.75
<b>SL-18.5</b>	13.50	<b>SLX-18</b>	13.25
<b>SL-21</b>	16.00	<b>SLX-21</b>	15.75
<b>SL-23.5</b>	18.50	<b>SLX-23</b>	18.25
<b>SL-26</b>	21.00	<b>SLX-26</b>	20.75
<b>SL-28.5</b>	23.50	<b>SLX-28</b>	23.25
<b>SL-31</b>	26.00	<b>SLX-31</b>	25.75

Our experienced design engineers are available to give you quick and efficient help on any problems you may have with magnetic applications or with special designs



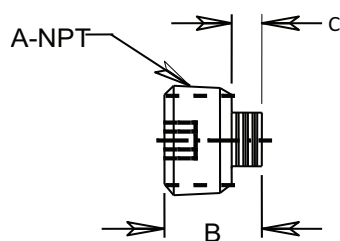
**NOTE:** All dimensions are inches

### WHEN ORDERING BE SURE TO:

- List number of the magnetic unit
- Give part number of plug (if plug is desired)
- Give length of support rod (if other than standard 5 inches)
- Add SS to unit number if Stainless Steel housings are desired

## MAGNETIC DRAIN PLUGS

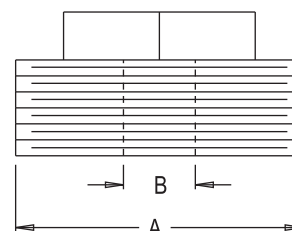
Use as drain plug at lowest location in sump. Magnet will attract and hold magnetic particles that may be in fluid line.



Magnetic Drain Plug			
Part No.	A NPT (inch)	B inch (mm)	C inch (mm)
<b>MDP101</b>	1/8	.62 (15.75)	.25 (6.35)
<b>MDP102</b>	1/4	.69 (17.53)	.28 (7.11)
<b>MDP103</b>	3/8	.69 (17.53)	.31 (7.87)
<b>MDP104</b>	1/2	.81 (20.57)	.20 (5.08)
<b>MDP105</b>	3/4	.75 (19.05)	.22 (5.59)
<b>MDP106</b>	1	.75 (19.05)	.18 (4.57)

### Pipe Plug for Tank Magnets

Part No.	A NPT (inch)	B Thread	Use with Magnet
<b>PM-125</b>	1 1/4	1/8 inch NPT	SL Series
<b>PM-125X</b>	1 1/4	5/8-18NF	SLX Series
<b>PM-250</b>	2 1/2	1/8 inch NPT	TM Series
<b>PM-250HD</b>	2 1/2	5/8-18NF	HDM Series



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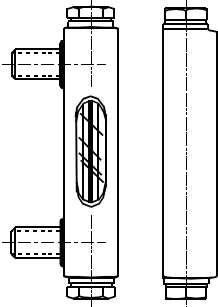
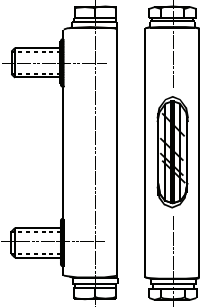
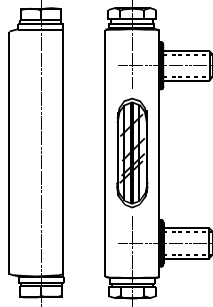
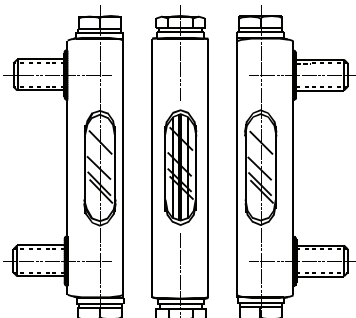
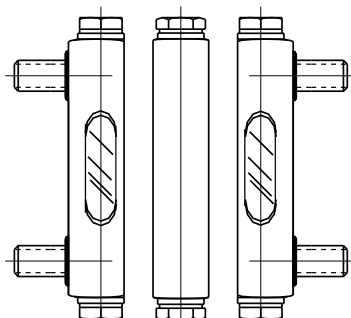
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# APPENDIX RA-1

## SIGHT OPENINGS & PRESSURE RATINGS

<p>Left side opening</p> 	<p>Front opening furnished as standard</p> 	<p>Right side opening</p> 	<p><b>MODIFICATIONS AVAILABLE:</b></p> <p><b>1. SIGHT MODIFICATIONS:</b></p> <p>A. Polycarbonate</p> <p>B. Clear borosilicate</p> <p>C. Ball float indicator</p> <p><b>2. SURFACE FINISH:</b></p> <p>A. Aluminum</p> <ul style="list-style-type: none"><li>• Clear anodize</li><li>• Color anodize</li><li>• Mil. Spec. anodize</li></ul> <p>B. Brass or steel</p> <ul style="list-style-type: none"><li>• Zinc plate</li><li>• Nickel plate</li><li>• Chrome plate</li></ul> <p><b>3. SPECIAL MARKINGS - EXAMPLES:</b></p> <p>A. No markings</p> <p>B. Run</p> <p>C. Oil level</p> <p>D. Full</p> <p>E. Refill</p> <p>F. Add</p> <p>G. Hot</p> <p>H. Cold</p> <p>I. Fuel</p> <p><b>4. MOUNTING BOLT THREADS</b></p> <p>A. 1/2 - 13</p> <p>B. M12 x 1.75</p> <p>C. M10 x 1.50</p> <p><b>5. MADE TO ORDER</b></p> <p>A. Steel, Stainless Steel or brass</p> <p><b>6. FRACTIONAL CENTERS</b></p> <p><b>MADE TO ORDER</b></p> <p><b>PLEASE SPECIFY WHEN ORDERING.</b></p>
<p>Left, front and right openings</p> 	<p>Left and right openings</p> 		

Maximum Recommended Working Pressure in PSI					
Mounting Centers inches (mm)	Pressure Rating PSI (kPa)	Mounting Centers inches (mm)	Pressure Rating PSI (kPa)	Mounting Centers inches (mm)	Pressure Rating PSI (kPa)
<b>For .50 (12.70mm) Diameter Borosilicate Redline Gage Glass</b>					
3-9 (76.2 - 228.6)	290 (1999.5)	17 (431.8)	250 (1723.8)	26 - 31 (660.4 - 787.4)	185 (1275.6)
10 & 11 (254 & 279.4)	275 (1896.1)	18 & 19 (457.2 & 482.6)	240 (1654.8)	32 - 37 (812.8 - 939.8)	160 (1103.2)
12 & 13 (304.8 & 330.2)	270 (1861.7)	20 & 21 (508 & 533.4)	230 (1585.8)	38 - 49 (965.2 - 1244.6)	130 (896.4)
14 & 15 (355.6 & 381)	260 (1792.7)	22 & 23 (558.8 & 584.2)	225 (1551.4)	50 - 61 (1270 - 1549.4)	100 (689.5)
16 (406.4)	255 (1758.2)	24 & 25 (609.6 & 635)	210 (1447.9)	62 - 72 (1574.8 - 1828.8)	75 (517.1)
<b>For .88 (22.23mm) Diameter Borosilicate Redline Gage Glass</b>					
3 - 9 (76.2 - 228.6)	235 (1620.3)	17 (431.8)	215 (1482.4)	26 - 31 (660.4 - 787.4)	185 (1275.6)
10 & 11 (254 & 279.4)	230 (1585.8)	18 & 19 (457.2 & 482.6)	210 (1447.9)	32 - 37 (812.8 - 939.8)	160 (1103.2)
12 & 13 (304.8 & 330.2)	228 (1572.1)	20 & 21 (508 & 533.4)	205 (1413.5)	38 - 49 (965.2 - 1244.6)	130 (896.3)
14 & 15 (355.6 & 381)	225 (1551.4)	22 & 23 (558.8 & 584.2)	200 (1379.0)	50 - 61 (1270 - 1549.4)	100 (689.5)
16 (406.4)	220 (1516.9)	24 & 25 (609.6 & 635)	195 (1344.5)	62 - 72 (1574.8 - 1828.8)	75 (517.1)

- All pressure ratings for temperatures to 150°F (65.6°C) and no corrosion.
- All pressure ratings for gages without dial or card thermometers.
- For gages with dial thermometers, maximum pressure is 125 PSI (861.9kPa) unless lower rating is shown in chart. Mounting centers will determine the pressure rating.

**\*.50 (12.70mm) DIA. GLASS FOR .88 (22.23mm) NOMINAL SQ. BODY;  
.88 (22.23mm) DIA. GLASS FOR 1.25 (31.75mm) SQ. BODY.**

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# APPENDIX RA-2

## FRONT MOUNT GAGE INSTALLATION INSTRUCTIONS

1. At the desired gage location: **FIG. A, B, C**

A. Locate centers

B. For thin wall tank, drill two .52 inch (13.10mm) diameter holes in tank wall corresponding to centers of gage

- OR -

C. If preferred, where tank wall is heavy enough to tap:

Drill and tap two holes per your selected mounting bolt thread (ie. 1/2-20UNF, or M12x1.75, etc.) in tank wall corresponding to centers of gage

2. Remove burrs from holes to provide good sealing surfaces **FIG. A, B, C**

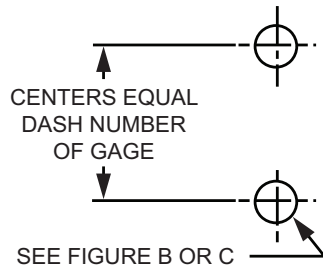
3. Install gage to tank - make sure O-rings are set properly in recess provided, either in gage body or in sealing spacer sleeve, (outside of tank wall between gage and tank) **FIG. E**

4. Tighten through bolt with a socket wrench. Torque mounting bolt to 60 in-lbs (6.78N-m). It is not necessary to over compress seals to make a liquid tight seal **FIG. E**.

5. Gages 3.00 inches through 12.00 inches (76.20mm through 304.80mm) centers inclusive have tank seals recessed into the gage body - Gages 13.00 inches through 72.00 inches (330.20 mm through 1828.80 mm) centers inclusive are furnished with sealing spacer sleeves.\* **FIG. E**.

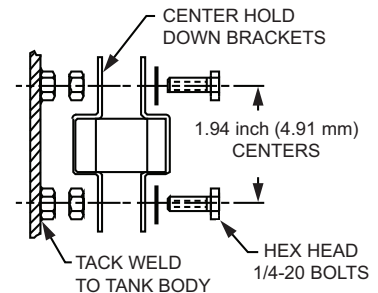
6. For gages with centers of 48.00 inches (1219.20mm) or more, center mounting kit brackets are furnished. To install the center mounting kit bracket, tack weld two 1/4-20 full nuts to the tank wall as shown below **FIG. D**.

**FIG. A**



**FIG. D**

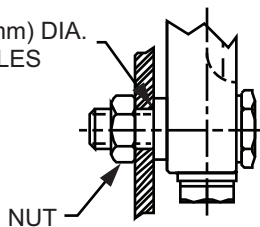
Mounting kit furnished complete



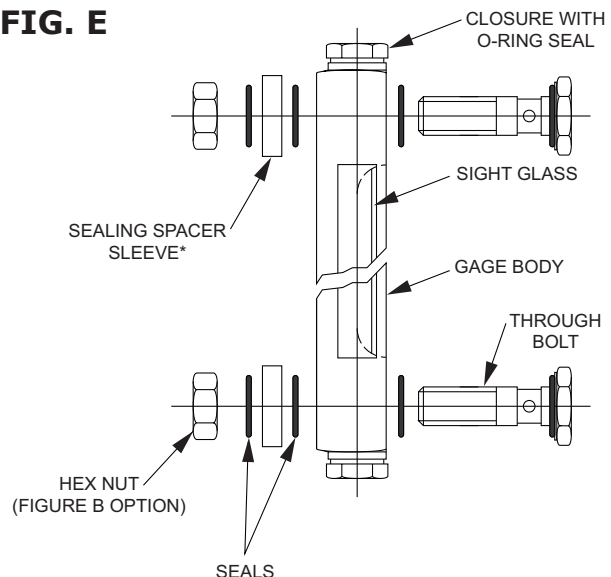
**FIG. B**

.52 INCH (13.10 mm) DIA. DRILLED HOLES

Thin wall tank with access to inside to install (2) nuts

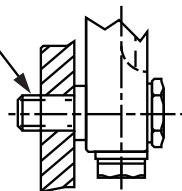


**FIG. E**



**FIG. C**

1/2-20 UNF TAP



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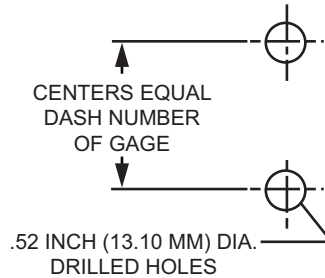


# APPENDIX RA-3

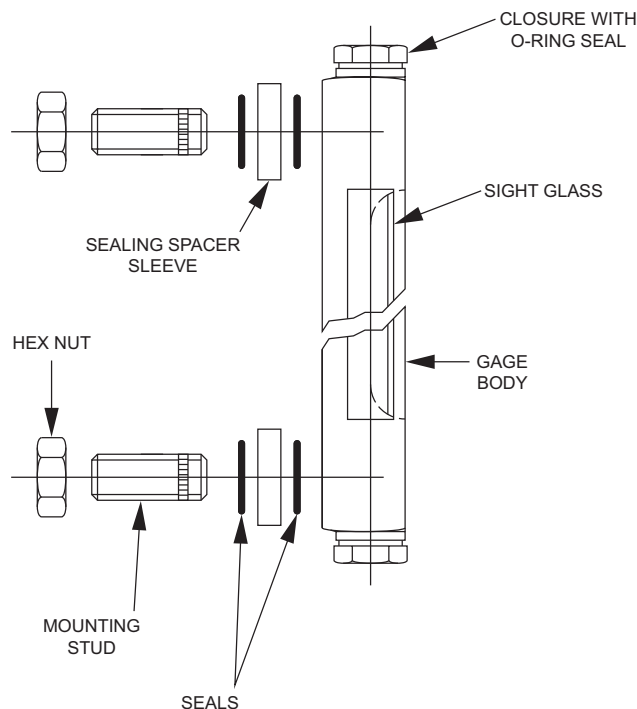
## BACK MOUNT GAGE INSTALLATION INSTRUCTIONS

1. At the desired location, drill two .52 INCH (13.10 mm) diameter holes in tank wall corresponding to mounting centers of gage. **FIG. A.**
2. Remove burrs from holes to provide good sealing surfaces. **FIG. A.**
3. Install gage to tank - Make sure O-rings are set properly in recess provided, either in gage body or in sealing spacer sleeve, (outside of tank wall between gage and tank.)
4. Tighten mounting nut with a socket wrench. Torque mounting nut to 60 in-lbs (6.78N-m). It is not necessary to over compress seals to make a liquid tight seal. **FIG. B.**
5. Gages 3.00 inches through 12.00 inches (76.20mm through 304.80 mm) centers inclusive have tank seals recessed in gage body -Gages 13.00 inches through 20.00 inches (330.20 mm through 508.00 mm) centers inclusive are furnished with sealing spacer sleeves. **FIG. B.**

**FIG. A**



**FIG. B**



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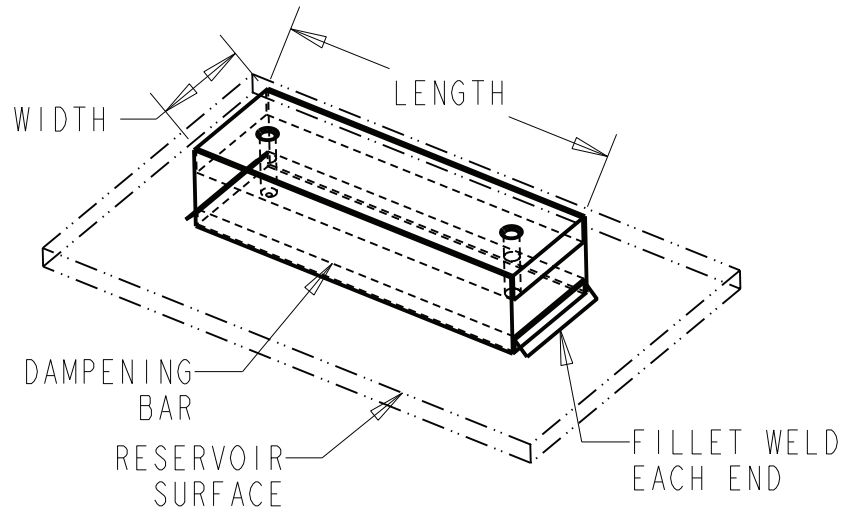
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# APPENDIX RA-4

## WELD INSTRUCTIONS FOR DAMPENING BAR



To minimize localized separation of the rubber from the steel bar, welding must be limited to each end along the width of the dampening bar using welding parameters at the upper limits of the manufacturer's recommendations for the filler metal with increased travel speed to reduce overall bead size.

The chart below provides the recommended fillet weld size for our most common dampening bars.

If staining caused by trapped condensation from beneath dampening bars is a concern after painting, caulk the edges not welded with a paintable caulk.

Recommended Fillet Weld Sizes		
Part Number	Description	Weld Fillet Size (inch)
VSM-56-W	Bar Dampening .312-18 4.75	.19
VSM-143-W	Bar Dampening .312-18 5.50	.19
VSM-145-W	Bar Dampening .312-18 6.50	.19
VSM-182-W	Bar Dampening .375-16 6.00	.19
VSM-184-W	Bar Dampening .375-16 7.00	.19
VSM-213-W	Bar Dampening .375-16 7.75	.19
VSM-215-W	Bar Dampening .375-16 9.00	.19
VSM-254-W	Bar Dampening .500-13 10.50	.19
VSM-256-W	Bar Dampening .500-13 12.25	.19
VSM-284-W	Bar Dampening .500-13 12.00	.31
VSM-286-W	Bar Dampening .500-13 13.25	.31
VSM-324-W	Bar Dampening .625-11 12.50	.31
VSM-326-W	Bar Dampening .625-11 14.00	.31
VSM-364-W	Bar Dampening .625-11 13.50	.31
VSM-365-W	Bar Dampening .625-11 14.50	.31
VSM-404-W	Bar Dampening .750-10 15.50	.31
VSM-405-W	Bar Dampening .750-10 17.00	.31
VSM-444-W	Bar Dampening .750-10 19.50	.31
VSM-445-W	Bar Dampening .750-10 21.00	.31

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## APPENDIX RA-5

### SERVICE TEMPERATURE RANGES BY SEAL MATERIAL

Seal Material	Temperature Range
Buna N or Nitrile (NBR)	-40°F to 250°F (-40° C to 121° C)
Butyl (IIR)	-75°F to 250°F (-59° C to 121° C)
Fluorocarbon (Viton®)	-15°F to 400°F (-26° C to 204° C)
Ethylene Propylene (EPDM)	-70°F to 250°F (-56° C to 121° C)
Neoprene	-35°F to 225°F (-37° C to 107° C)
Silicone	-65°F to 450°F (-53° C to 232° C)
Fluorosilicone	-100°F to 350°F (-73° C to 176° C)

**NOTE:** These temperature ranges will apply to the majority of media for which the material is potentially recommended. With some media however, the service temperature range may be significantly different. Always test seal and media combinations under actual service conditions.

## SIGHT GAGES - CLOSED CIRCUIT

### G601 SERIES - INSTALLATION INSTRUCTIONS

1. For thin wall tank, drill two .34 inch (8.6mm) diameter holes in tank wall corresponding to centerline of gage -OR- drill and tap tank wall to mate with selected mounting bolt and centerline of gage. The acceptable tolerance between drilled mounting holes is  $[+/- .03 \text{ inch } (+/-0.8 \text{ mm})]$
2. Remove burrs from holes to provide good sealing surfaces.
3. Verify o-rings are set properly in recess provided on backside of gage body and under the head of the mounting bolt.
4. Install gage by first tightening the mounting bolts by hand until secure.
5. Then using a torque wrench, uniformly tighten mounting bolts to 11 in-lbs (1.24 N-m).

**NOTE:** The tank seal is designed to space the gage body away from the tank wall. Excessive assembly torque may cause the tank seal to fail prematurely.

## SIGHT GAGES - CLOSED CIRCUIT

### GAGES W/PIPE ADAPTERS INSTALLATION INSTRUCTIONS

**NOTE:** The centerline distance between pipe couplings in the reservoir to mate with selected centerline of gage to be the nominal gage centerline  $\pm .03$  inch ( $\pm 0.8$  mm).

1. Remove pipe adapters from package or from sight gage if received assembled.
2. Apply an anaerobic thread sealant or pipe dope to the male pipe thread of each adapter. Do not use RTV or teflon tape as the thread sealant.
3. Assemble pipe adapters into pipe couplings on reservoir by hand until firmly secured.
4. Mark one hex flat on each adapter extending the mark onto the coupling surface. These marks will be used to identify each adapter's relative position while further tightening the pipe adapters with a wrench.
5. Use a wrench to further tighten each adapter 1 to 1-1/2 turns beyond finger tight to achieve a leak free joint. Use the marks previously placed on the hex flats to aid in identifying when the correct number of assembly turns has been achieved.
6. Verify o-rings on back of gage and under the head of the mounting bolts (or thermometer shield) are in place on the gage body. Secure the gage to the pipe adapters by first tightening each mounting bolt (or thermometer shield) by hand.
7. Using a torque wrench, uniformly tighten the mounting bolts (or thermometer shield) to 60 in-lbs (6.78 N-m).

**NOTE:** The tank seal is designed to space the gage body away from the tank wall. Excessive assembly torque may cause the tank seal to fail prematurely.

### SIGHT GAGES - CLOSED CIRCUIT

#### G613 & GT613 SERIES INSTALLATION INSTRUCTIONS

1. For thin wall tank, drill two .52 inch (13.1 mm) diameter holes in tank wall corresponding to centerline of gage -OR- drill and tap tank wall to mate with selected mounting bolt and centerline of gage. The acceptable tolerance between drilled mounting holes is  $[+/- .03 \text{ inch } (+/-0.8 \text{ mm})]$
2. Remove burrs from holes to provide good sealing surfaces.
3. Verify o-rings are set properly in recess provided on backside of gage body and under the head of the mounting bolt/thermometer shield.
4. Install gage by first tightening the mounting bolts (or thermometer shield) by hand until secure.
5. Then using a torque wrench, uniformly tighten mounting bolts (or thermometer shield) to 60 in-lbs (6.78 N-m). Prevent twisting between aluminum blocks and Nylon sight by holding mounting block orientation with a wrench while tightening the mounting bolts (or thermometer shield).

**NOTE:** The tank seal is designed to space the end blocks away from the tank wall. Excessive assembly torque may cause the tank seal to fail prematurely.

### SIGHT GAGES - CLOSED CIRCUIT

#### G623 & GT623 SERIES INSTALLATION INSTRUCTIONS

1. For thin wall tank, drill two .52 inch (13.1 mm) diameter holes in tank wall corresponding to centerline of gage -OR- drill and tap tank wall to mate with selected mounting bolt and centerline of gage. The acceptable tolerance between drilled mounting holes is  $[+/- .016 \text{ inch } (+/-0.4 \text{ mm})]$
2. Remove burrs from holes to provide good sealing surfaces.
3. Verify o-rings are set properly in recess provided on backside of gage body and under the head of the mounting bolt.
4. Install gage by first tightening the mounting bolts by hand until secure.
5. Then using a torque wrench, uniformly tighten mounting bolts to 80 in-lbs (9.04 N-m).

**NOTE:** The tank seal is designed to space the gage body away from the tank wall. Excessive assembly torque may damage the gage or seals causing the gage to fail prematurely.



## SIGHT GAGES - CLOSED CIRCUIT

### SGC SERIES INSTALLATION INSTRUCTIONS

**Access to inside of reservoir is required**

#### **Existing Reservoir Applications**

1. When modifications to the reservoir walls are required, a complete draining of the reservoir is recommended to facilitate removal of possible debris within the tank after modifications are made. At a minimum, draining to a fluid level below the lower mounting hole of the sight gage is required for installation of the SGC sight gage.

#### **New or Existing Reservoir Applications**

2. When the reservoir wall thickness is thin, drill two .66 inch (16.8 mm) diameter holes through the reservoir wall corresponding to the centerline of the sight gage -OR- when reservoir wall thickness permits, drill and tap reservoir wall to mate with 5/8-27UNS thread (studs) and centerline of gage. The acceptable tolerance between drilled mounting holes is  $[+/- .03 \text{ inch } (+/- 0.8 \text{ mm})]$
3. Remove burrs from holes to provide good sealing surfaces.
4. Remove bulkhead adapters from sight gage.
5. Remove locknuts from bulkhead adapters and insert bulkhead adapters through mounting holes with flat gasket contacting exterior wall of reservoir. Secure each adapter with a locknut [torque to 80 in-lb (9.04 N-m)]. Prevent bulkhead adapters from rotating while the locknuts are being tightened by holding the head of the adapter with a wrench.
6. Verify o-rings are set properly in recess provided on backside of the sight gage body and under the head of the mounting bolts.
7. Install gage by first tightening the mounting bolts by hand until secure.
8. Then using a torque wrench, uniformly tighten mounting bolts to 60 in-lbs (6.78 N-m).

**NOTE:** The tank seal is designed to space the gage body away from the heads of the adapters leaving the o-rings visible after assembly. Excessive assembly torque may cause the tank seal to fail prematurely.

## SIGHT GAGES - CLOSED CIRCUIT

### G603 & GT603 SERIES INSTALLATION INSTRUCTIONS

1. For thin wall tank, drill two .52 inch (13.1 mm) diameter holes in tank wall corresponding to centerline of gage -OR- drill and tap tank wall to mate with selected mounting bolt and centerline of gage. The acceptable tolerance between drilled mounting holes is  $[+/- .03 \text{ inch } (+/-0.8 \text{ mm})]$
2. Remove burrs from holes to provide good sealing surfaces.
3. Verify o-rings are set properly in recess provided on backside of gage body and under the head of the mounting bolt/thermometer shield.
4. Install gage by first tightening the mounting bolts (or thermometer shield) by hand until secure.
5. Then using a torque wrench, uniformly tighten mounting bolts (or thermometer shield) to 60 in-lbs (6.78 N-m). Prevent twisting between aluminum blocks and vinyl sight by holding mounting block orientation with a wrench while tightening the mounting bolts (or thermometer shield).

**NOTE:** The tank seal is designed to space the end blocks away from the tank wall. Excessive assembly torque may cause the tank seal to fail prematurely.

## SIGHT GAGES - CLOSED CIRCUIT

### TMA SERIES THERMOMETER INSTALLATION INSTRUCTIONS

#### TMA100 Series

1. Select a reservoir location to drill the access hole that is accessible from inside the reservoir and at a height to provide your most optimal point of use temperature. Verify there is sufficient clearance for the stud and thermometer probe inside the reservoir.
2. Drill a .52 inch (13.1 mm) diameter hole through the tank wall.
3. Remove burrs from the hole to provide a good sealing surface.
4. Verify o-ring is set properly in recess provided on backside of aluminum enclosure.
5. Insert stud of probe assembly through tank wall rotating to desired position of the thermometer face. While maintaining this position, tighten the lock nut by hand until secure.
6. Then use a torque wrench to tighten the lock nut to 60 in-lbs (6.78 N-m). Maintain the orientation of the thermometer by holding the aluminum enclosure during tightening either by hand or if necessary with a wrench.

**NOTE:** The tank seal is designed to space the aluminum enclosure away from the tank wall. Excessive assembly torque may cause the tank seal to fail prematurely.

#### TMA200 Series

1. Select a reservoir location to drill and weld a pipe coupling sized to mate with the TMA200 thermometer selected and at a height to provide your most optimal point of use temperature. Verify there is sufficient clearance for the thermometer probe inside the reservoir.
2. Apply an anaerobic thread sealant or pipe dope to the male pipe thread of the adapter. Do not use RTV or Teflon tape as the thread sealant.
3. Assemble the thermometer subassembly into the pipe coupling by hand until firmly secured.
4. Mark one hex flat on the adapter extending the mark onto the coupling surface. This mark will be used to identify the adapter's relative position while further tightening the pipe adapter with a wrench.
5. Use a wrench to further tighten the adapter 1 to 1-1/2 turns beyond figure tight to achieve a leak free joint. Use the mark previously placed on the hex flat to aid in identifying when the correct number of assembly turns has been achieved. Do not apply any torque to the aluminum enclosure protecting the thermometer face.

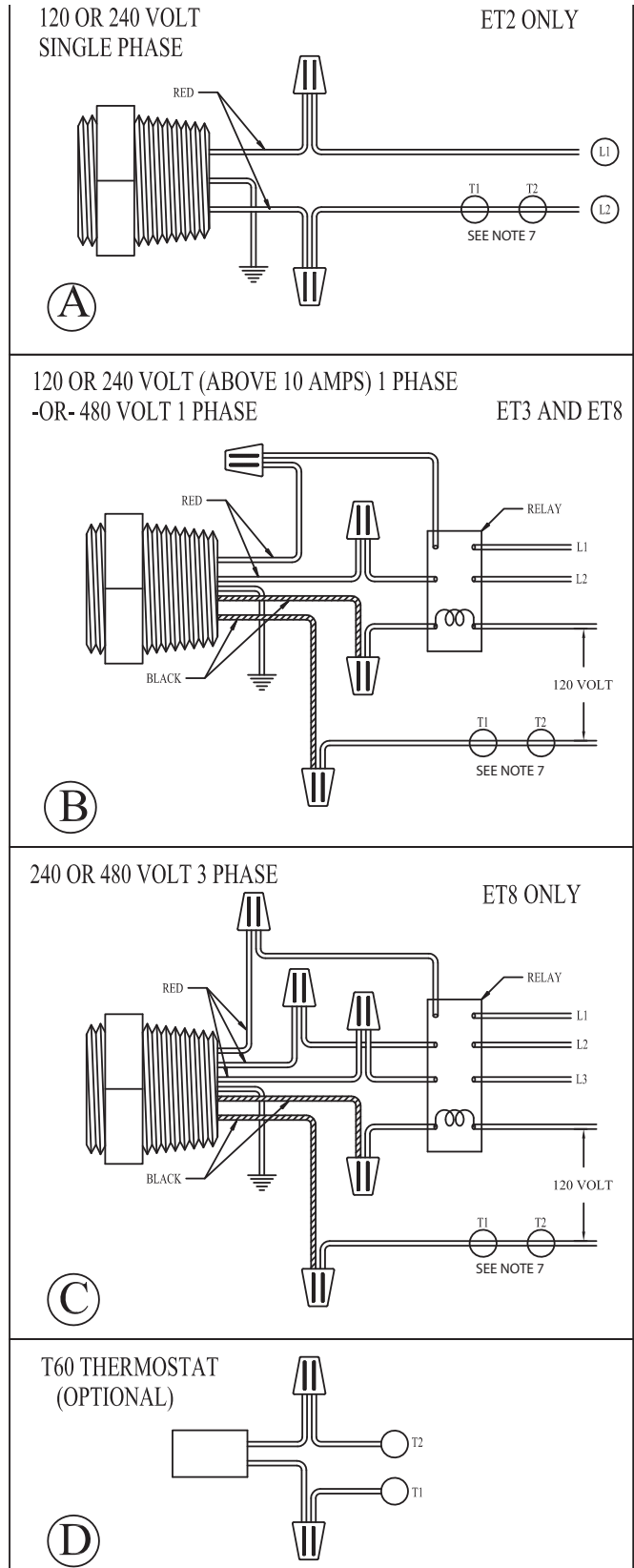
**NOTE:** The orientation of the thermometer face cannot be rotated independent from the pipe adapter.

## IMMERSION HEATER

### IMMERSION HEATER INSTALL AND WIRING INSTRUCTIONS

1. On ET2 models only, install into a 3/4 inch NPT coupling using a reducer bushing supplied; or for existing/replacement applications the 1/2 inch NPT connection in the reservoir requires a 23/32 inch drill opening.
2. Must be immersed at all times
3. Mount horizontally only
4. Operate on a rated voltage - heaters are not dual voltage
5. Use on AC only
6. Lead wires are color coded - heater leads are red, thermostat leads are black. The ET2 Series heaters have the thermostat wired internally and no black leads are present.
7. T-60 ambient air thermostat (optional) set to close at 40° F. To be wired into circuit at points T1 and T2 see diagram D.
8. Above 10 AMP draw or 480V or 3 phase, use relay - see diagram B or C
9. To calculate amperage draw:

SINGLE PHASE	THREE PHASE
$AMPS = \frac{WATTAGE}{VOLTS}$	$AMPS = \frac{WATTAGE}{VOLTS \times 1.73}$



# APPENDIX RA-14

## REPLACEMENT PARTS

### Reservoirs

Description	Part No.
T Handle for L & T Tank Covers	681010110
Buna-N Channel Gasket for L & T Tank Covers	CH201
Neoprene Gasket for Non-JIC w/Removable Top	99915
Neoprene Gasket Set for Non-JIC w/Removable Top	5300-5302
Neoprene Gasket for Vari-Paks 8 to 25 Gal.	99905
Buna-N Channel Gasket for Vari-Paks 2 to 5 Gal.	CH201-VP
Cover Plate for Non-JIC w/Removable Top	5300-1-2
Filler Breather (Bayonet Flange 40 micron)	5201
Back Mount Sight Gage with thermometer (5 inch center)	G1620-05-A-1
Back Mount Sight Gage with thermometer (10 inch center)	G1620-10-A-1
Side Mount Filler Breather (40 micron)	SM-5201
Miniature Tank Breather (3/4 inch NPT)	PMB-07-10
Buna-N Channel Gasket for V215145, V215146	5145G
Buna-N Channel Gasket for V215147, V215148, V215149, V215173, V215188, V215189	5147G
Buna-N Channel Gasket for V215174, V215175, V215176, V218195, V215196	5174G

### Access Covers

Door Size	Buna-N Gasket Part No.	EPDM Gasket Part No.	5/8-11 Bolt Part No.	Nylon Washer Part No.	Baffle Lug Part No.	Removable Door Bracket Part No.	Magnetic Drain Plug NPT 3/4 inch Part No.
10 inch	5069	EP-5069	5062	5083	5084	V-5393	MDP105
12 inch	5081	EP-5081	5082	5083	5084	V-5392	MDP105
14 inch	507403	EP-5074	5082	5083	5084	V-5390	MDP105
16 inch	508802	EP-5088	5058	5083	5084	V-5390	MDP105
18 inch	509202	EP-5092	5093	5083	5084	V-5391	MDP105

### DIN Type Access Covers

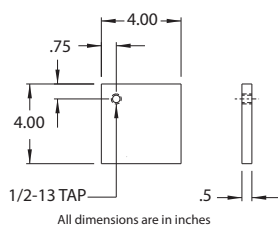
Endcover Type	Endcover Part No.	Gasket Part No.	M10 Acorn Nuts Part No.
324	DIN324	V-6701	108499
449	DIN449	V-6702	108499

### Drain Plugs

Door Size	Drain Plug 3/4 inch NPT Part No.	Drain Plug #12 SAE Part No.
10 - 18 inch	PFH60-12	R771-12

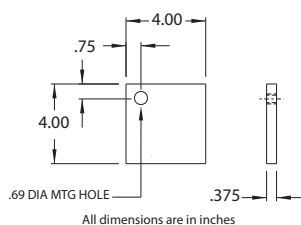
#### Foot Mounting Pad

Containment Tray  
Part No. V7378



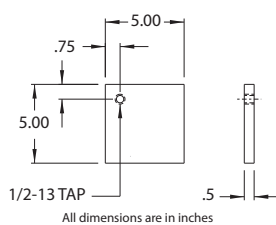
#### Foot Pad

Overhead Reservoir Base  
Part No. V7379



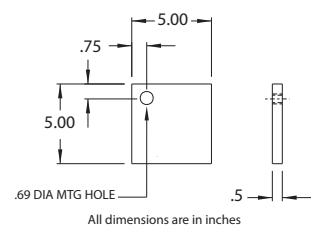
#### Foot Mounting Pad

Containment Tray  
Part No. V7380



#### Foot Pad

Overhead Reservoir Base  
Part No. V7381



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# APPENDIX RA-14

## REPLACEMENT PARTS

### Filler Breathers - Non Vented

LDI Part No.	Breather Flange Gasket	Strainer Basket	Flange SAE J829	Cap
<b>5232</b>	1321	1300	1310	5NV
<b>5227</b>	1321	803690	1310	5NV

### Filler Breathers - SAE Bayonet Flanges

LDI Part No.	Breather Flange Gasket	Strainer Basket	Flange	Mounting
<b>5201</b>	1321	1300	1310	805960
<b>5201-P</b>	1321	1300	1310	805960
<b>5205</b>	1321	1325	1310	805960
<b>5203</b>	1321	1300	1310	836434
<b>5204</b>	1321	1300	1310	805960
<b>5220</b>	1321	1300	1310	805960

### Filler Breathers - Side Mount

LDI Part No.	Breather Flange Gasket	Strainer Basket	Flange SAE J829
<b>SM-5201</b>	1321	803690	1310
<b>SM-5204</b>	1321	803690	1310

### Large Air Breather Elements

Polyester Element	Paper Element	Wire Mesh Element
<b>E19P</b>	E18P	E18S
<b>E31P</b>	E30P	E30S
<b>E231P</b>	E230P	E230S

### Air Breather Filter

LDI Part No.	Breather Flange Gasket	Strainer Basket	Flange Gasket	Flange SAE J829	Filter Element	Adapters
<b>1306-2</b>	N/A	N/A	N/A	N/A	1306	1311
<b>1306-3</b>	1321	N/A	N/A	N/A	1306	1312
<b>1306-4</b>	1321	1300	1320	1310	1306	1312

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