

RESERVOIR ACCESSORIES

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

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FOOT MOUNTING BRACKETS

USAF17 4-BOLT

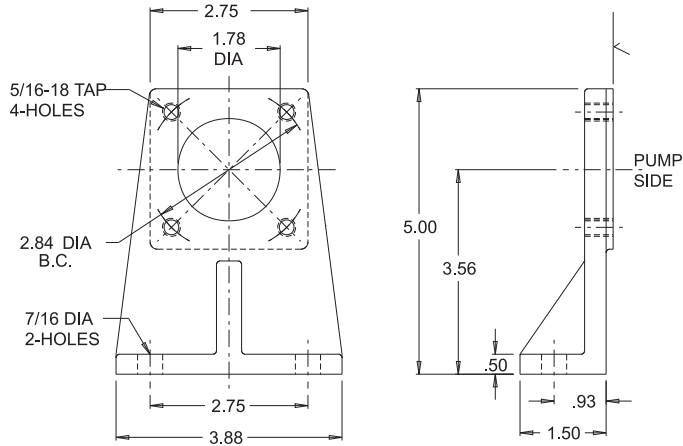
This Foot Mounting Bracket is designed to mount a USAF17 4-bolt hydraulic pump or motor with supporting feet.

Standard Features:

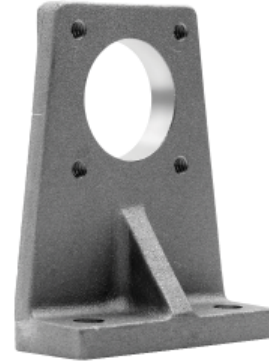
- Light weight - High strength
- Two foot mounting holes provided
- Machined to a 3.56 inch shaft centerline height

Standard Material:

- Cast Aluminum



NOTE: All dimensions are inches



USAF17 4-Bolt Foot Mounting Bracket

Part No.	Description
FM100	USAF17 4-Bolt Foot Bracket

SAE AA 2-BOLT

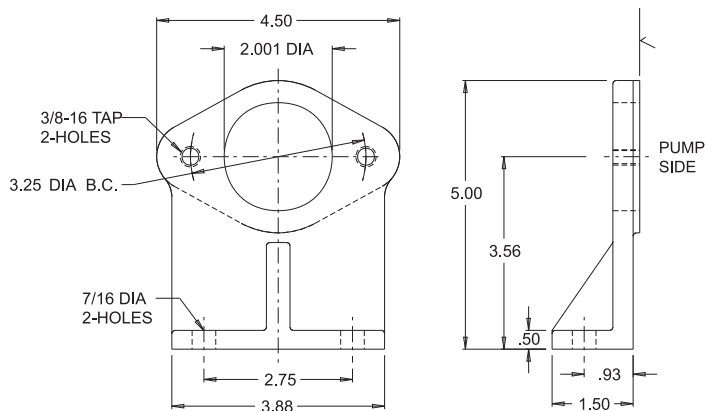
This Foot Mounting Bracket is designed to mount a SAE AA 2-bolt hydraulic pump or motor with supporting feet.

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
FM150	SAE AA 2-Bolt Foot Bracket

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Pg RA-56

FOOT MOUNTING BRACKETS

SAE A 2-BOLT

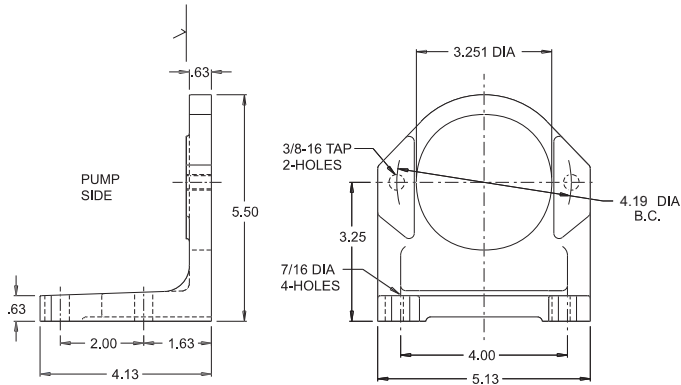
This Foot Mounting Bracket is designed to mount a SAE A 2-bolt hydraulic pump or motor with supporting feet.

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

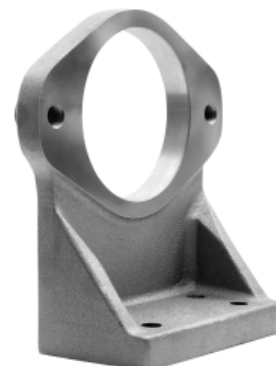
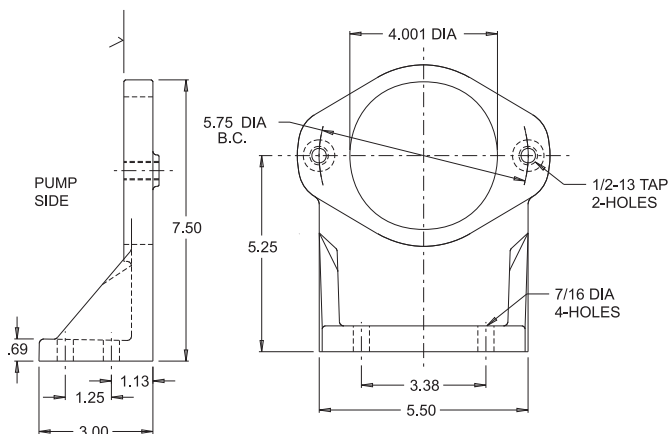
This Foot Mounting Bracket is designed to mount a SAE B 2-bolt hydraulic pump or motor with supporting feet.

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

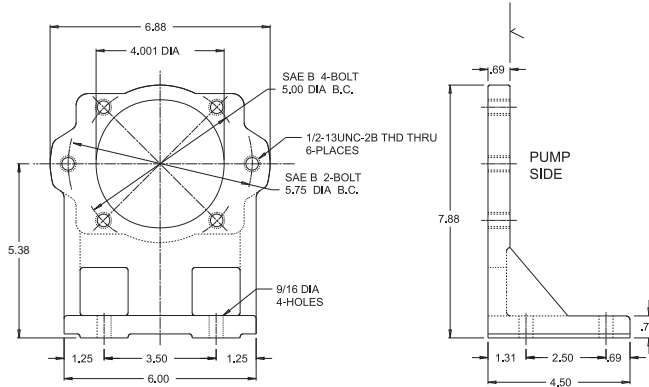
This Foot Mounting Bracket is designed to mount a SAE B 2 or 4-bolt hydraulic pump or motor with supporting feet.

Standard Features:

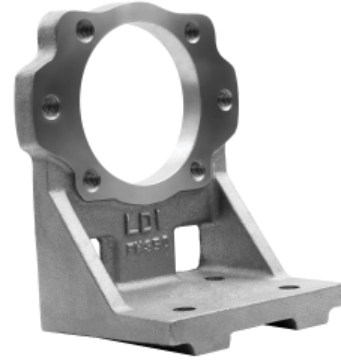
- Light weight - High strength
- Four foot mounting holes provided
- Machined to a 5.375 inch shaft centerline height

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

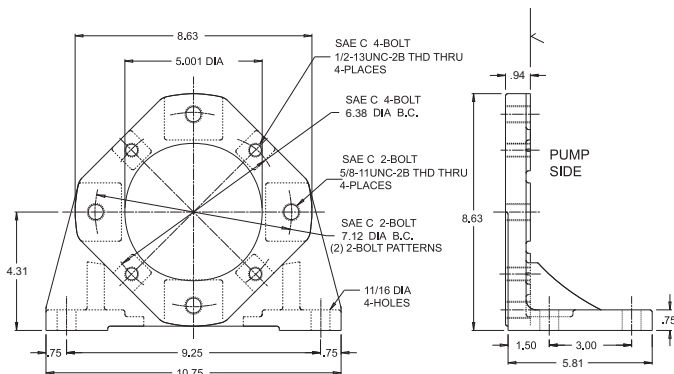
This Foot Mounting Bracket is designed to mount a SAE C 2 or 4-bolt hydraulic pump or motor with supporting feet.

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:

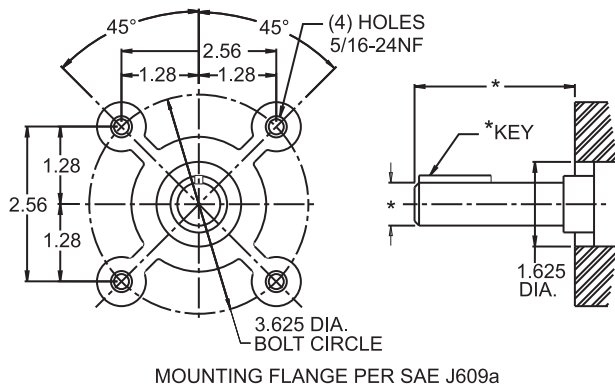
- Decrease assembly time - bolt mount to side of gas engine
- Made of lightweight but strong cast aluminum
- Proper shaft alignment assured
- Reduced cost - no need for foot brackets, shims or risers
- Provide a clean, neat appearance for your finished product
- Gas Engine Adapters are designed to be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

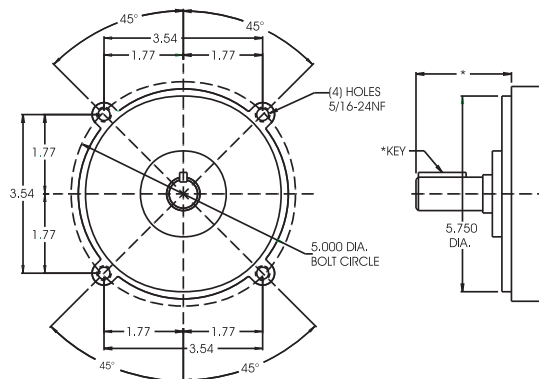
PEM-F FLANGE

*Dimensions to be furnished by customer



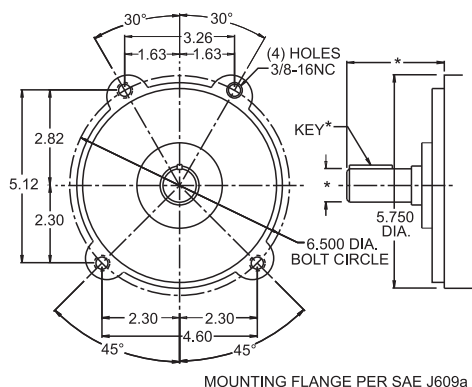
LB152 FLANGE

*Dimensions to be furnished by customer



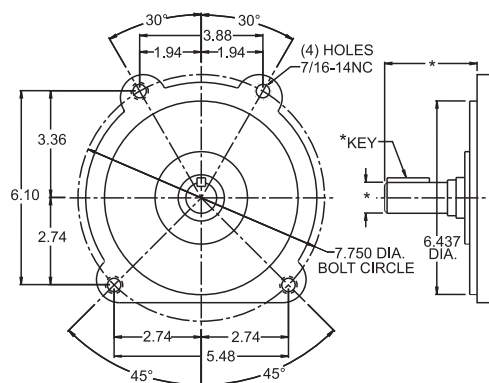
PEM-G FLANGE

*Dimensions to be furnished by customer



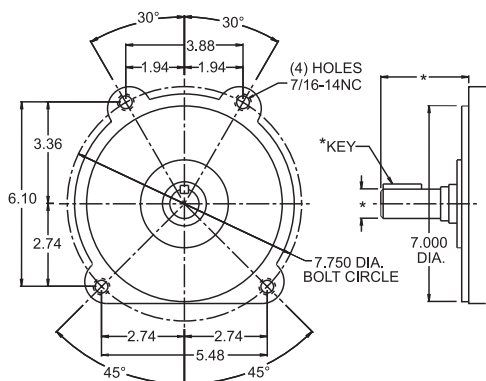
PEM-H FLANGE

*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.

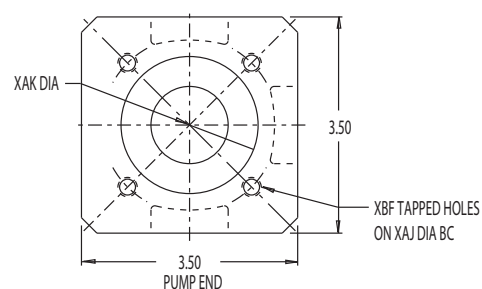
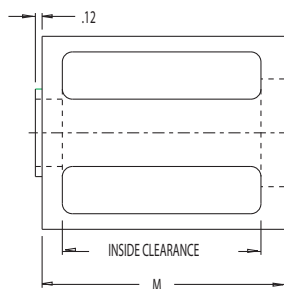
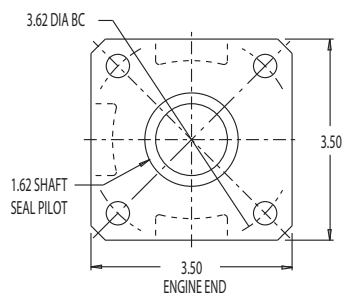
Standard Features:

- 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.

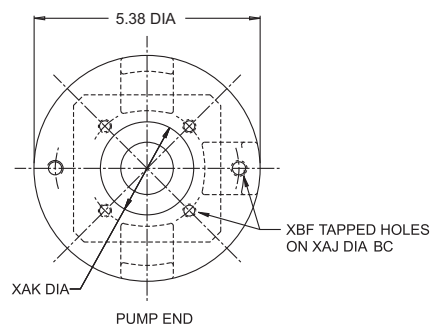
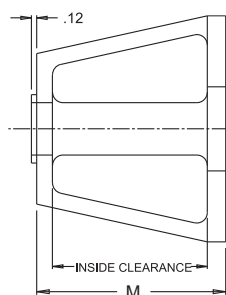
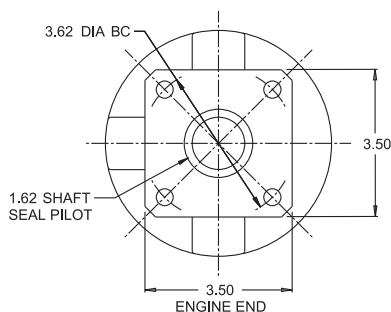
Standard Material:

- Cast Aluminum

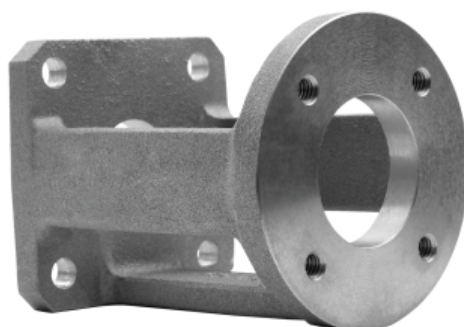
**Adapter
6048**



**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
6048	USAF 4F17	4 Bolt	2.75	2.84	1.78	5/16-18	4.50	3.63
6049	SAE AA	2 Bolt	2.75	3.25	2.00	3/8-16	4.50	3.63
6061	SAE A	2 Bolt	2.75	4.19	3.25	3/8-16	4.69	3.63

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GAS ENGINE ADAPTERS

LB152 FLANGE

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Standard Features:

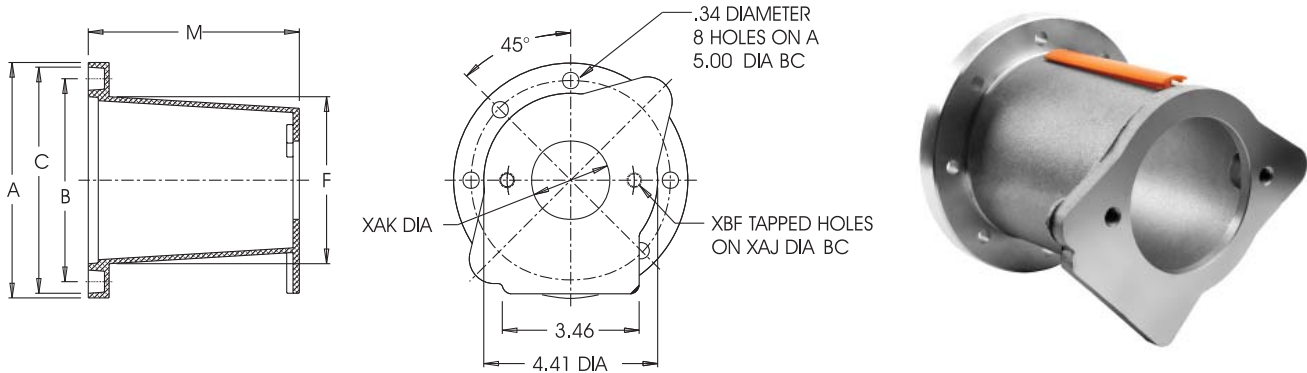
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

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

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Standard Features:

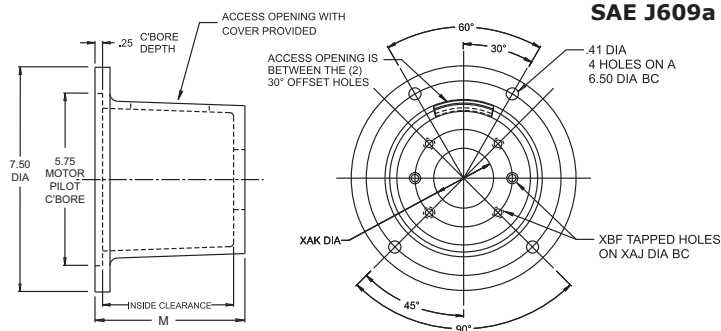
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

Standard Material:

- Cast Aluminum

WARNING:

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

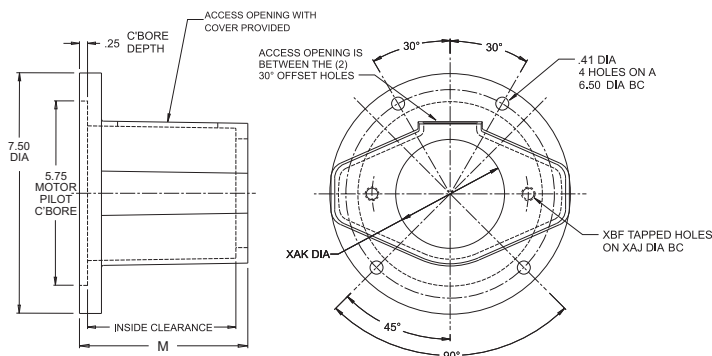


SAE J609a



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
6025	USAF 4F17	4 Bolt	4.00	2.84	1.78	5/16-18	5.00	4.00
6021							5.62	4.50
6023	SAE AA	2 Bolt	4.00	3.25	2.00	3/8-16	5.00	4.00
6020							5.62	4.50
6024	SAE A	2 Bolt	4.00	4.19	3.25	3/8-16	5.00	4.00
6019							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
196899	SAE B	2 Bolt	3.50	5.75	4.00	1/2-13	5.25	4.62

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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:

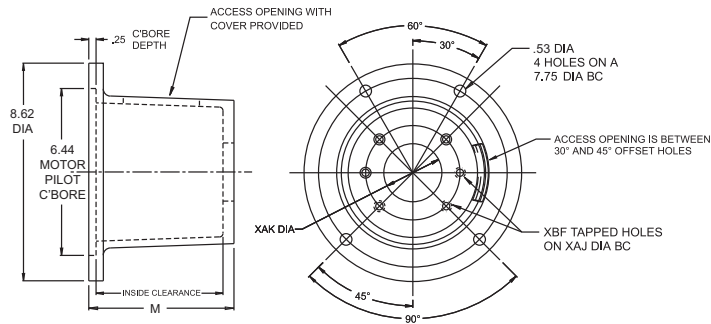
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

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:

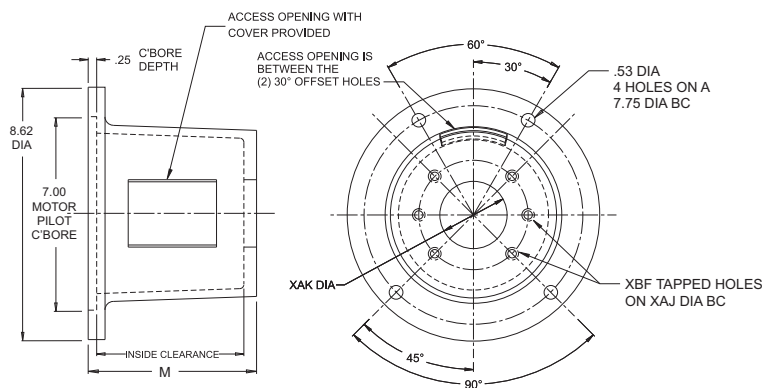
- Light weight - High strength
- Drive coupling access hole
- Safety orange removable cover for coupling access hole
- Gas Engine Adapters are designed to be used with gas engines with horizontal shafts only.

Standard Material:

- Cast Aluminum

WARNING:

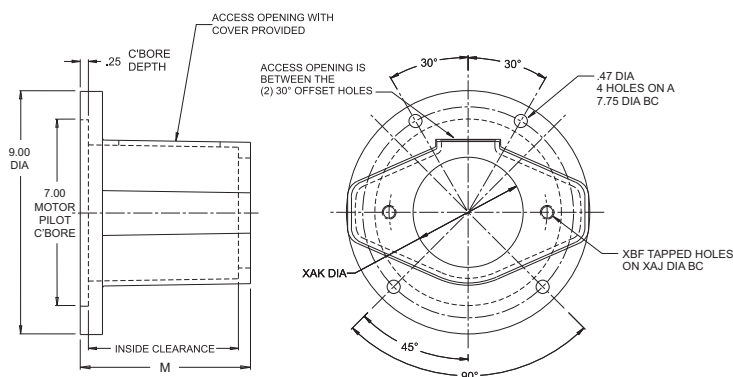
- To avoid possible injury, access hole cover must be in place during operation



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
6017	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
196199	SAE A	2 Bolt	3.50	4.19	3.25	3/8-16	7.00	5.12
196399	SAE B	2 Bolt 4 Bolt	3.50	5.75 5.00	4.00	1/2-13	7.00	5.12
196599	SAE C	2 Bolt	3.50	7.12	5.00	5/8-11	7.00	5.12

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:

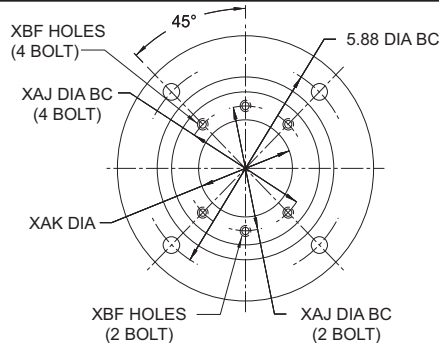
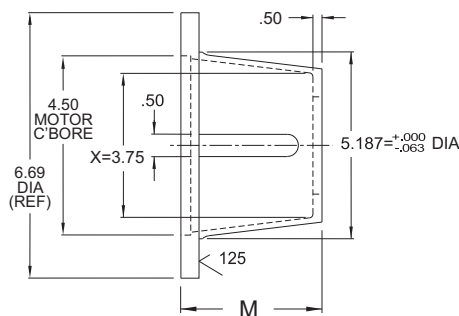
- Die and Cast Aluminum

NOTES:

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

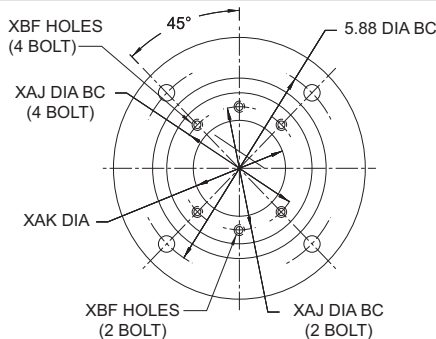
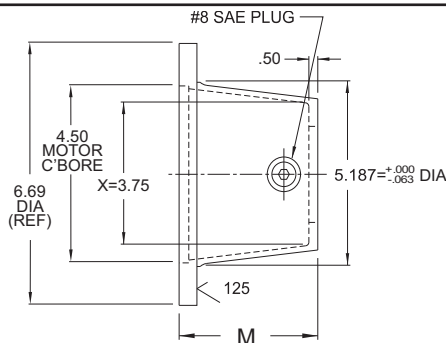
WARNING:

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



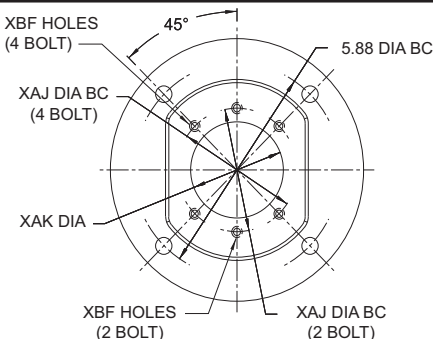
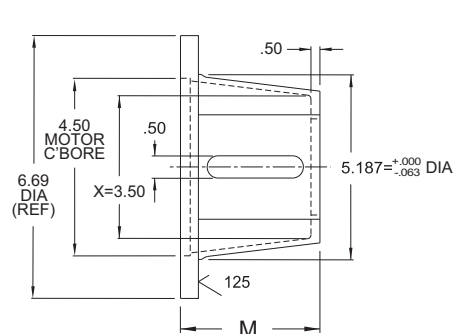
STYLE 1 ADAPTER Horizontal/Vertical Mounting

Note: See page 99 for vertical mounting information & vertical mounting gasket



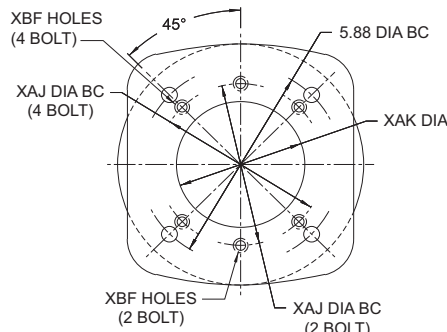
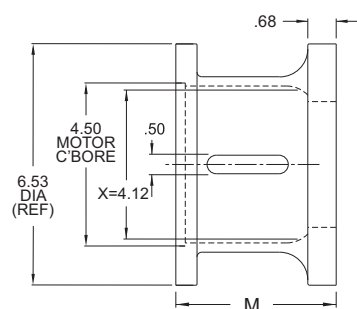
STYLE 1A ADAPTER Horizontal/Vertical Mounting

Note: See page 99 for vertical mounting information & vertical mounting gasket



STYLE 1B ADAPTER Horizontal/Vertical Mounting

Note: See page 99 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	3.50	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	4.5	150199
SAE AA	2 Bolt	3.25	2.001	3/8-16	1	Yes	Yes	3.50	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	5.06	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	3.50	170799*
					1B	Yes	Yes	3.81	152399
					1	Yes	Yes	4.25	6028*
					1B	Yes	Yes	4.50	150499
					1	Yes	Yes	5.06	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	5.06	149799
					3	Yes	No	5.63	6085
SAE C	4 Bolt	6.38	5.001	1/2-13	3	Yes	No	5.63	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:

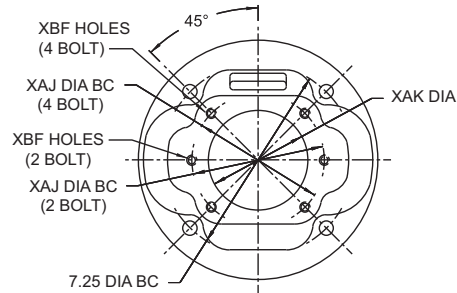
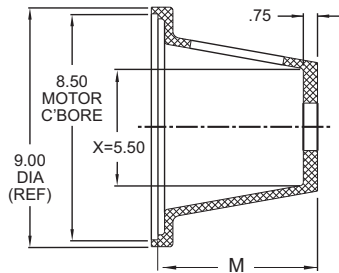
- Die and Cast Aluminum

NOTES:

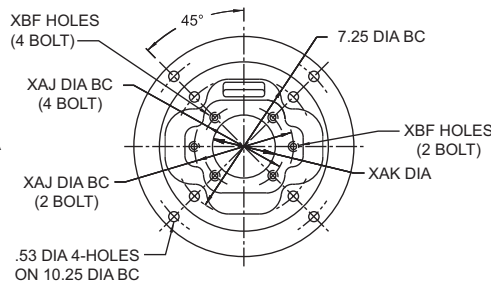
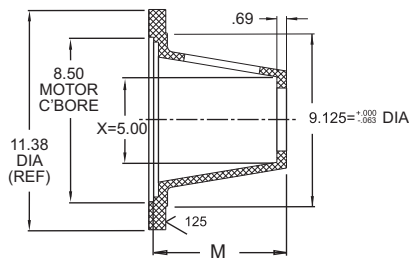
- X = Permissible inside radial clearance
- All dimensions are inches

WARNING:

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

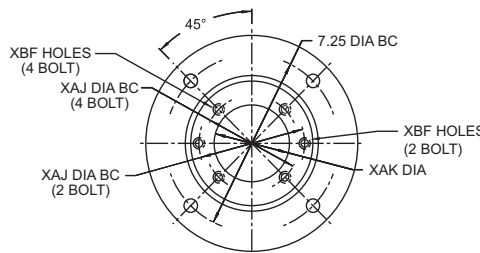
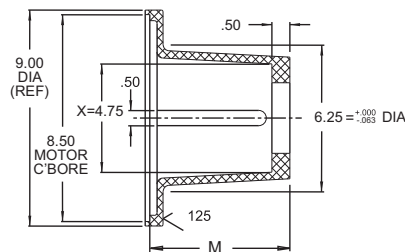


STYLE 5 ADAPTER
Horizontal Mounting Only



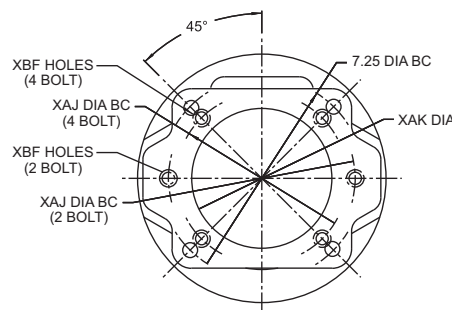
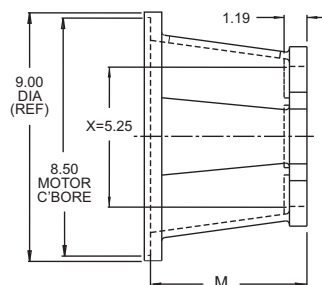
STYLE 6 ADAPTER
Vertical Mounting Only

Note: See page 99 for vertical mounting information & vertical mounting gasket



STYLE 7 ADAPTER
Horizontal/Vertical Mounting

Note: See page 99 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.

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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.
Standard SAE Pump Flanges									
USA 4F17	4 Bolt	2.84	1.781	5/16-18	7	Yes	Yes	4.63	3371
					7	Yes	Yes	5.00	6033
					6	No	Yes	5.00	6053
					5	Yes	No	5.81	1965
					7	Yes	Yes	5.88	6037
SAE AA	2 Bolt	3.25	2.001	3/8-16	7	Yes	Yes	4.38	2196
					7	Yes	Yes	4.63	3373
					5	Yes	No	5.00	1994
SAE AA	2 Bolt	3.25	2.001	3/8-16	7	Yes	Yes	5.00	6031
					7	Yes	Yes	5.25	168299
					7	Yes	Yes	5.44	157299
					6	No	Yes	5.75	6057
					7	Yes	Yes	5.88	6035
					7	Yes	Yes	6.88	6039 ⁺
					SAE A	2 Bolt	4.19	3.251	3/8-16
7	Yes	Yes	4.63	6026 ⁺					
5	Yes	No	5.00	1960					
7	Yes	Yes	5.00	6030 ⁺					
6	No	Yes	5.00	6054					
7	Yes	Yes	5.25	168399 ⁺					
7	Yes	Yes	5.44	3364 ⁺					
6	No	Yes	5.75	6055					
5	Yes	No	5.81	1959					
7	Yes	Yes	5.88	6034 ⁺					
8	Yes	No	6.38	3365					
5	Yes	No	6.81	1950					
6	No	Yes	6.81	6058					
7	Yes	Yes	6.88	6038 ⁺					
8	Yes	No	7.38	3361					
SAE B	2 Bolt 4 Bolt	5.75 5.00	4.001	1/2-13	5	Yes	No	5.00	1964
					6	No	Yes	5.00	6032
					8	Yes	No	5.44	254199
					6	No	Yes	5.75	6036
					5	Yes	No	5.81	1952
					8	Yes	No	6.38	254299
					5	Yes	No	6.81	1951
					6	No	Yes	6.81	6040
8	Yes	No	7.38	254399					
SAE C	2 Bolt 4 Bolt	7.12 6.38	5.001	5/8-11 1/2-13	8	Yes	No	5.44	1946
					8	Yes	No	6.38	1955
					8	Yes	No	7.38	1956
SAE D	2 Bolt 4 Bolt	9.00	6.001	3/4-10	Steel	Yes	No	7.00	1886
					Steel	Yes	No	8.25	1884
⁺ 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 (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 [†]
100mm	2 Bolt 4 Bolt	140mm 125mm	100.02mm	1/2-13 3/8-16	5	Yes	No	5.00	1878 [†]
					5	Yes	No	6.81	2156 [†]
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 [†]
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:

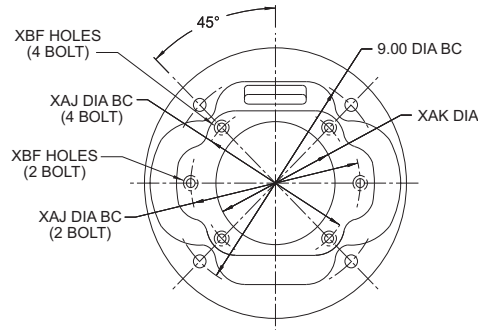
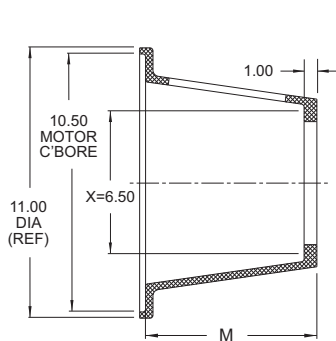
- Cast Aluminum

NOTES:

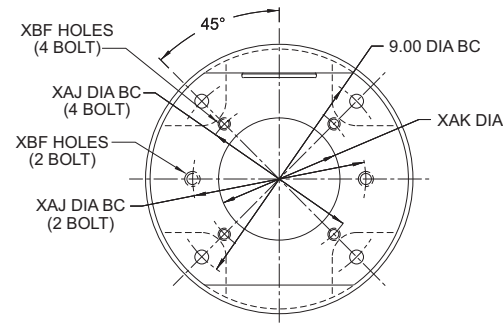
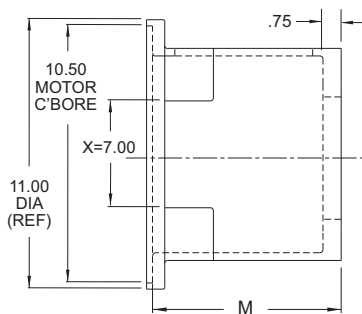
- X = Permissible inside radial clearance
- All dimensions are inches

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



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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 ⁺
*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:

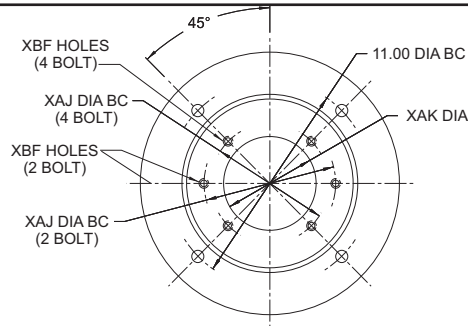
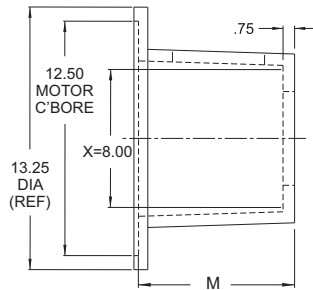
- Cast Aluminum

NOTES:

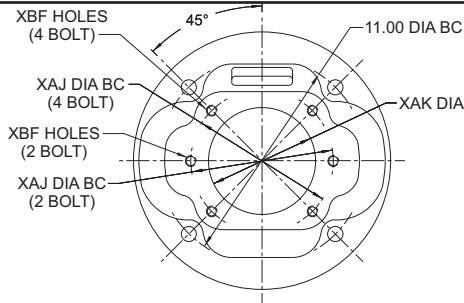
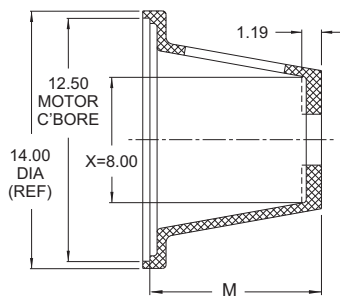
- X = Permissible inside radial clearance
- All dimensions are inches

WARNING:

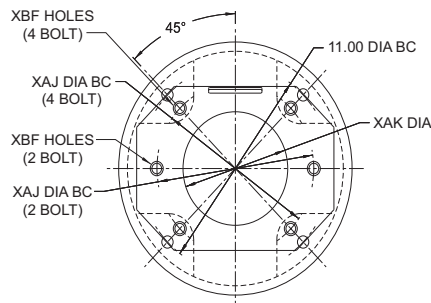
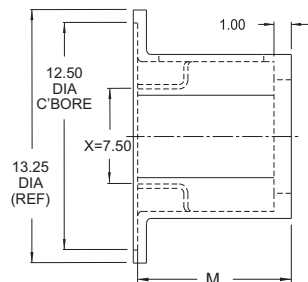
- To avoid possible injury, access hole cover must be in place during operation



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

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

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
SAE D	2 Bolt	9.00	6.001	3/4-10	13	Yes	No	9.88	260799
					14	Yes	No	8.88	1986
SAE D	2 Bolt	9.00	6.001	3/4-10	14	Yes	No	7.68	1985
					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
Metric Series Pump Flanges									
100mm	2 Bolt 4 Bolt	140mm 125mm	100.02mm	1/2-13 3/8-16	13	Yes	No	6.30	3862 [†]
200mm	4 Bolt	250mm	200.02mm	3/4-10	16	Yes	No	9.63	2193 [†]
†Non-stock special order item									

[†]Non-stock special order item

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-90

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:

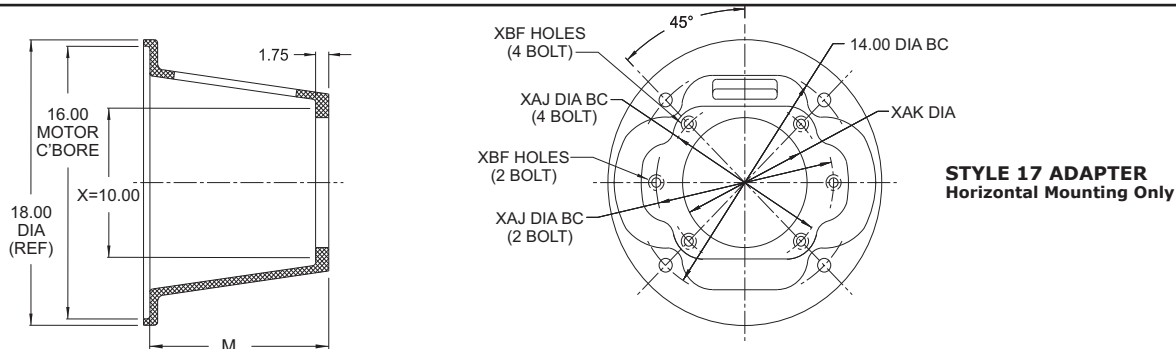
- Cast Aluminum

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

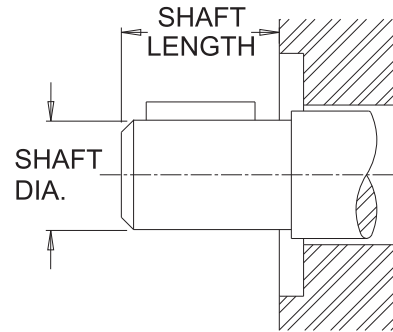
Shaft ID Code	Shaft Diameter	STR. Shaft Length	Thread Length	Thread Width	Key Width
13-2	.50	.75	.56	3/8-24	.12
16-2	.62	.94	.72	1/2-20	.16
22-2	.88	1.31	.91	5/8-18	.25
25-2	1.00	1.50	1.06	3/4-16	.25
32-2	1.25	1.88	1.22	1-12	.31
38-2	1.50	2.12	1.38	1 1/8-12	.38
44-2	1.75	2.62	1.56	1 1/4-12	.44

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

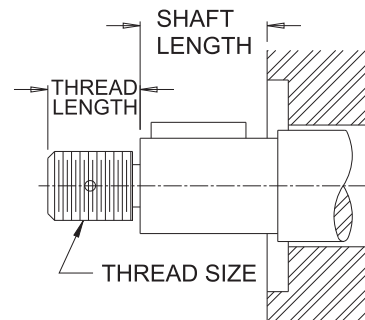
Shaft ID Code	Shaft Diameter	Shaft Length	Spline Specifications	*SAE Ref.
13-4	.50	.75	9T, 20/40 DP	A-A
16-4	.62	.94	9T, 16/32 DP	A
22-4	.88	1.31	13T, 16/32 DP	B
25-4	1.00	1.50	15T, 16/32 DP	B-B
32-4	1.25	1.88	14T, 12/24 DP	C
38-4	1.50	2.12	17T, 12/24 DP	C-C
44-4	1.75	2.62	13T, 8/16 DP	D, E
50-4	2.00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

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

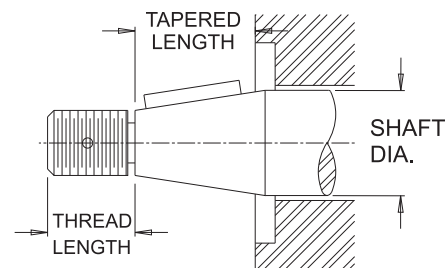
Straight Shaft (without threads)



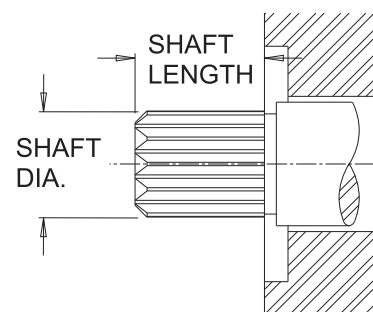
Straight Shaft (with threads)



Tapered Shaft (with threads)



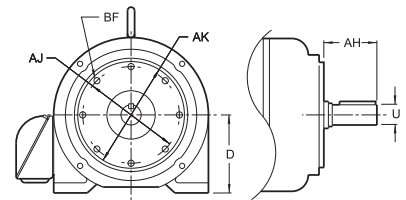
30° Involute Spline



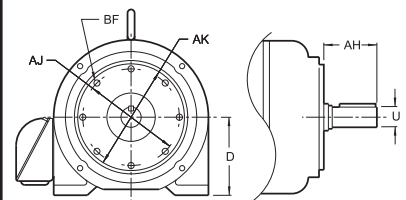
PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

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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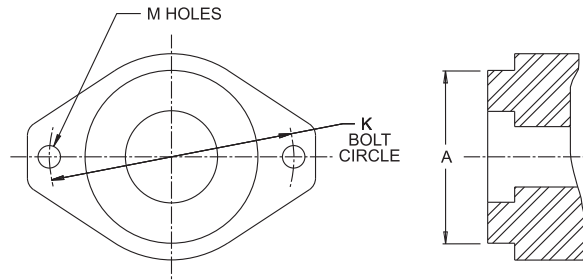


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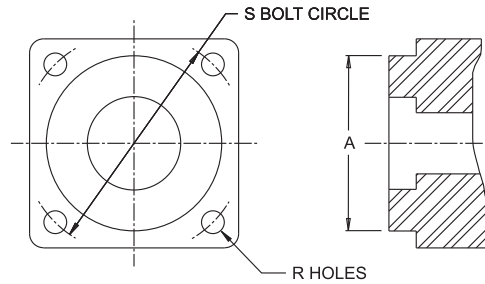
PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

PUMP MOUNTING FLANGE INFORMATION

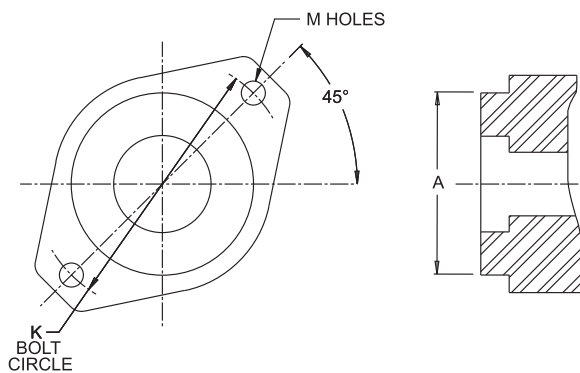
SAE FLANGES



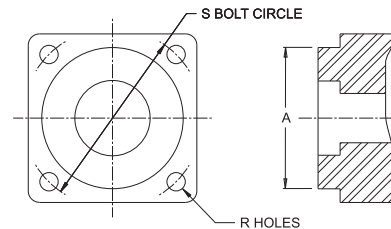
SAE 2 Bolt Mounting Flange					
Mounting Flange			Pilot Dimensions	Flange Dimensions	
ANSI	USA	SAE	A	K	M
50-2	-	AA	2.000/1.998	3.255 3.245	0.406
82-2	2F32	A	3.250/3.248	4.192 4.182	0.438
101-2	2F40	B	4.000/3.998	5.755 5.745	0.562
127-2	2F50	C	5.000/4.998	7.130 7.120	0.687
152-2	2F60	D	6.000/5.998	9.005 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



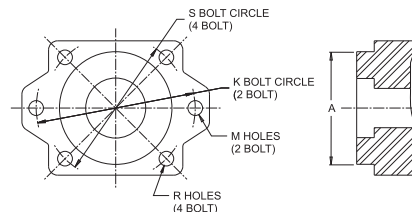
SAE 4 Bolt Mounting Flange					
Mounting Flange			Pilot Dimensions	Flange Dimensions	
ANSI	USA	SAE	A	S	R
-	4F17	-	1.781/1.799	2.843 2.833	0.375
-	-	A	3.250/3.248	4.130 4.120	0.438
101-4	4F40	B	4.000/3.998	5.005 4.995	0.562
127-4	4F50	C	5.000/4.998	6.380 6.370	0.562
152-4	4F60	D	6.000/5.998	9.005 8.995	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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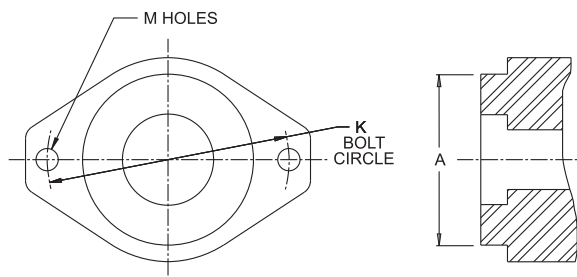
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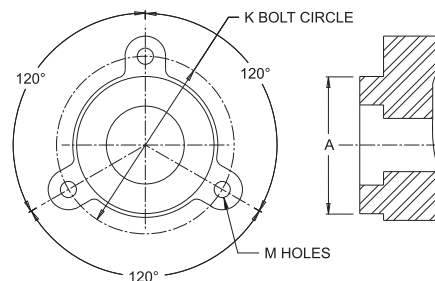
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PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

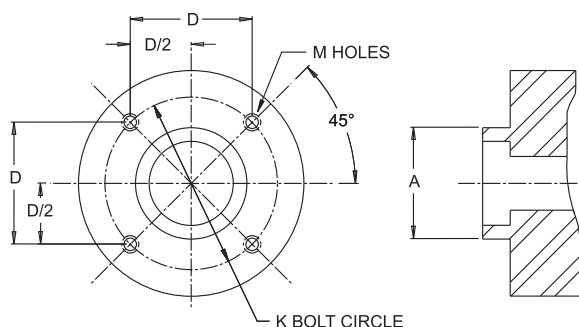
SAE FLANGES



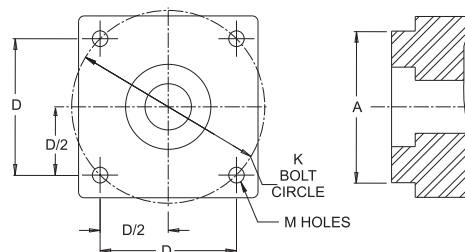
2 Bolt Special Mounting Flange			
Mounting Flange	Pilot Dimensions A	Flange Dimensions	
		K	M
2H	2.000/1.998	4.192 4.182	0.438



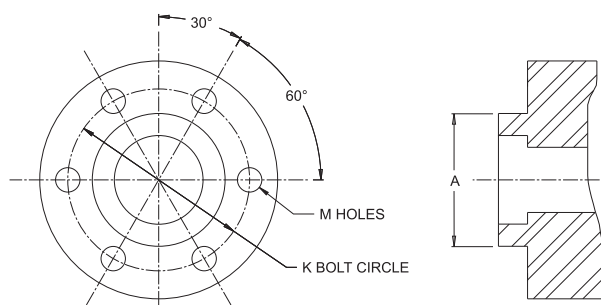
3 Bolt Mounting Flange			
Mounting Flange	Pilot Dimensions A	Flange Dimensions	
		K	M
3H	2.125/2.123	2.755 2.745	0.281



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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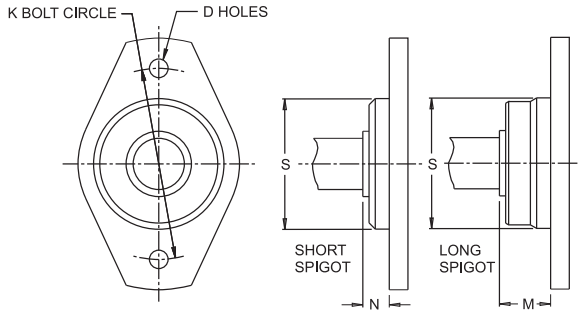
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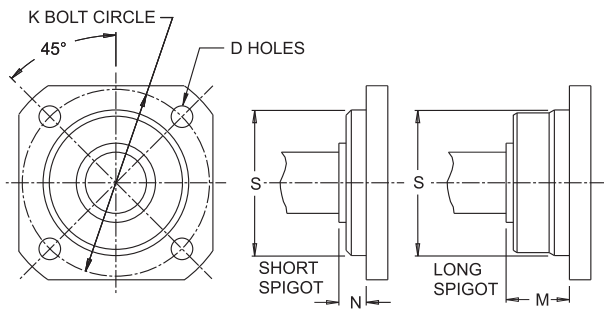
PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

METRIC FLANGES



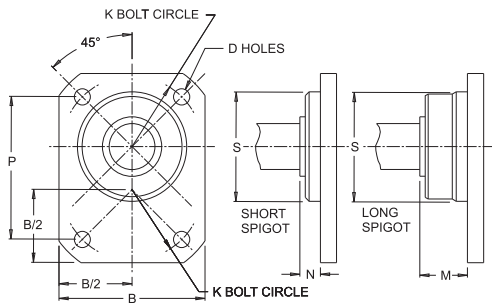
Metric 2-Bolt Mounting Flanges (Oval)

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



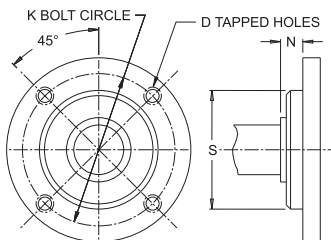
Metric 4-Bolt Mounting Flanges (Square)

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



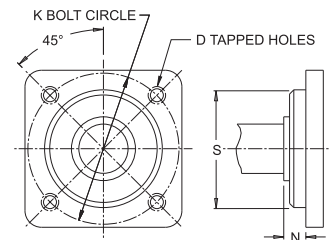
Metric 4-Bolt Mounting Flanges (Rectangular)

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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Fx : 920-684-7210

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sales@ldi-industries.com
www.ldi-industries.com

PUMP MOTOR ADAPTERS FOR ELECTRIC MOTORS

ADAPTER MOUNTING SPACER

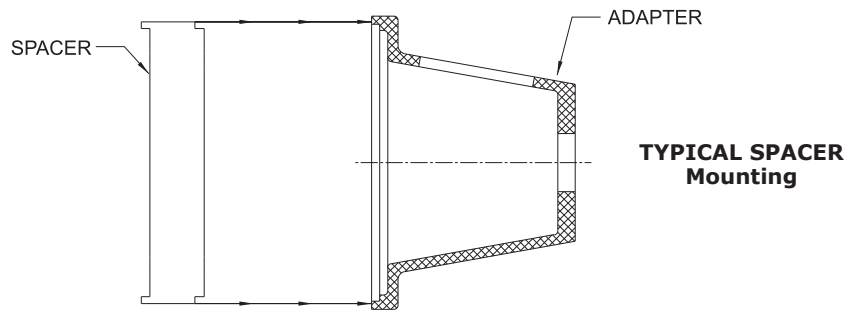
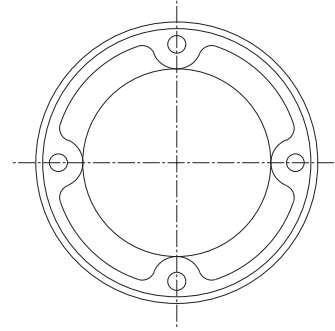
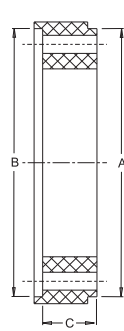
Adapter Mounting Spacers are designed to be used in conjunction with a pump motor adapter to increase the face to face spacing between the motor and pump when a standard pump motor adapter alone does not have the proper face to face spacing required for the application.

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	2114	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	1962	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	3047	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	1992	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	1993	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

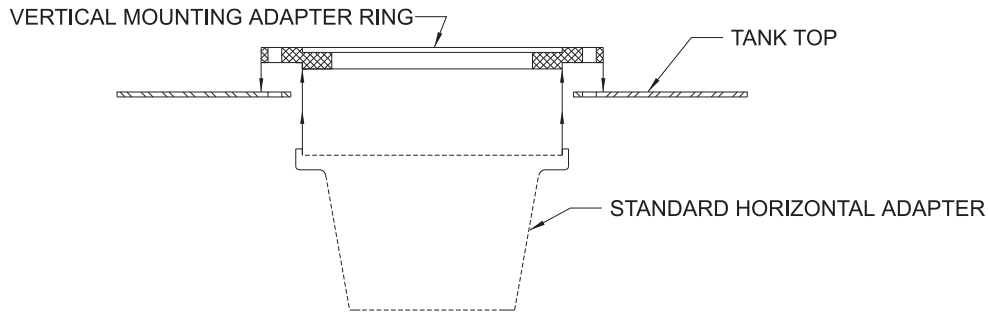
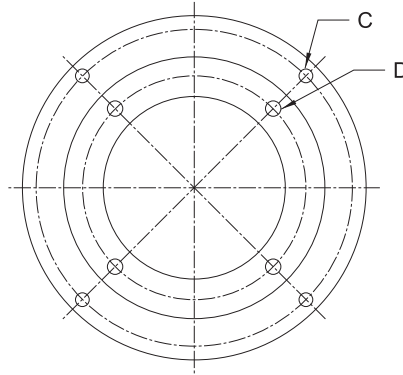
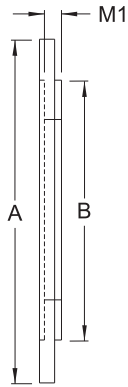
Vertical Adapter Rings are designed to convert a horizontal style pump motor adapter for use in a vertical application.

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 Holes .56 inch dia. on 10.25 inch dia. B.C.	4 Holes .56 inch dia. on 7.25 inch dia. B.C.	.50 inch	268299	For use with 182TC/256TC and 213UC/256UC pump motor adapters. (add .50 inch to "M" dimension of adapter) See page # for optional Vertical Mounting Gasket	Tank top requires 9.31 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	268399	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 # 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	268499	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 # 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 268299 on Horizontal Adapter (see information in chart below)	
284/286TC/TSC 284/286UC	None (Use Vertical Mounting Adapter Ring 268399) (see information in chart below)	
324/405TC/TSC 324/405UC/USC	None (Use Vertical Mounting Adapter Ring 268499) (see information in chart below)	
444/445TSC	Not Available	

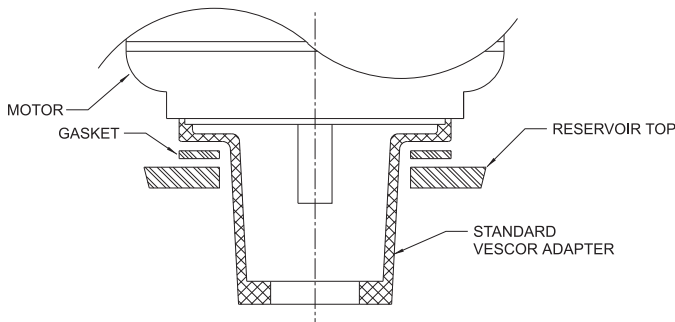
Vertical Rings		
Motor Size	Part Number	Cutout Information
182/256TC 213/256UC	268299	Requires a 9.12 inch diameter hole with (4) .56 inch diameter holes equally spaced on 10.25 inch diameter B.C.
284/286TC/TSC 284/286UC	268399	Requires a 11.12 inch diameter hole with (4) .56 inch diameter holes equally spaced on 12.50 inch diameter B.C.
324/405TC/TSC 324/405UC/USC	268499	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	268599
182/256TC 213/256UC	6	268699
182/256TC 213/256UC	7	268799
182/256TC 213/256UC	Vertical Ring 268299	268699
284/286TC/TSC 284/286UC	Vertical Ring 268399	268899

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