



# Pump/Motor Mounts

Leading the Industry in Quality, Service and Availability



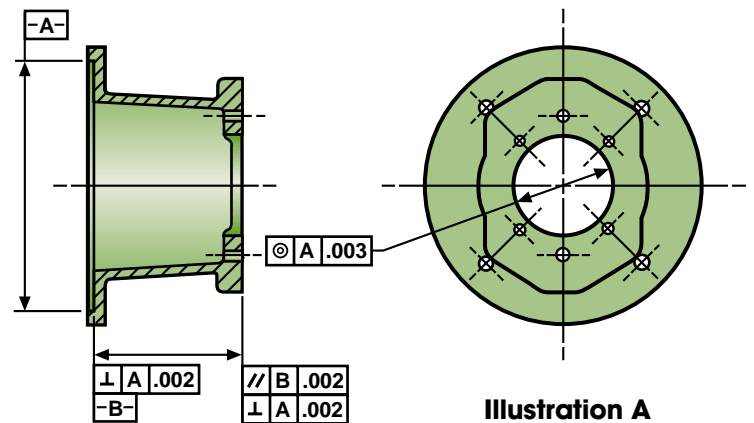
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Power Unit design is greatly simplified by use of the Magnaloy Pump Mount. Direct mounting of flange-mount pumps to NEMA C'face motors or Pilot mount engines via a Magnaloy Mount assures accurate shaft alignment and eliminates the need for a coupling guard, foot brackets, shims, risers and mount plate. The result is the easiest to install, most accurate and cost effective method available to mount a pump to a drive unit.

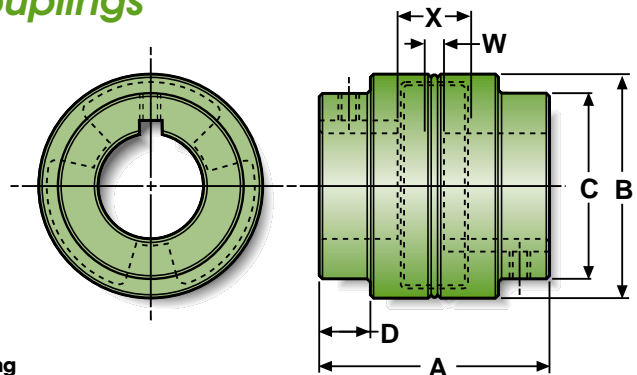
For over 30 years Magnaloy has produced the highest quality flexible drive couplings in the industry. Magnaloy's long tradition of high quality and immediate delivery has become an industry goal for other manufacturers to attain. Every mount Magnaloy manufactures is guaranteed to be within .003 inch concentric from the motor pilot to pump pilot. Further, the mounting faces are parallel to each other and perpendicular to the pilot centerline within .002 inch. These exacting tolerances mean accurate shaft alignment which helps prolong bearing, seal and coupling life in addition to reducing noise and vibration. Other mount manufacturers talk about quality, but Magnaloy puts it in writing with measurable standards (See Illustration A)

Magnaloy is the most complete, single source for Horizontal, Vertical and Engine requirements. A large selection of SAE and Metric pump mounting flanges to NEMA motors and I.C. Engines in a variety of lengths are available from stock for immediate shipment. OR special requirements can be met from our complete offering of Welded Steel Mounts. Whatever your mounting needs, you need look no further than Magnaloy.



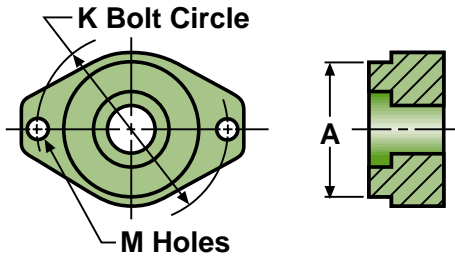
**TABLE 1 - Magnaloy Flexible Drive Couplings**

The following basic Rating & Dimensional data is provided for general selection assistance. Complete selection specifications for standard and semi-standard bores, spline bores, clamp and steel bushing options and installation instructions are included in the Magnaloy Coupling Catalog - available upon request.



Coupling Model	Maximum Bore (inches)	HP Rating Per 100 RPM (STD insert)	HP Rating Per 100 RPM (Urethane insert)	HP Rating Per 100 RPM (Hyrel insert)	A	B	C	D	W(Min)	X(Max)
100	1 1/8	.55	.82	1.65	2.54	2.60	2.00	.56	1/16	.90
200	1 3/8	.64	.96	1.92	3.10	2.90	2.25	.68	1/16	.90
300	1 5/8	1.12	1.68	3.36	3.58	3.45	2.90	.78	1/16	.98
400	1 7/8	1.69	2.50	5.10	4.24	3.98	3.05	1.00	1/16	1.20
500	2 3/8	3.50	5.30	10.50	4.67	4.80	4.00	1.04	1/16	1.41
600	2 5/8	7.90	11.90	23.70	5.98	5.98	4.50	1.60	1/16	1.36
700	2 7/8	18.60	27.90	46.50	6.99	6.90	5.19	2.08	1/16	1.97

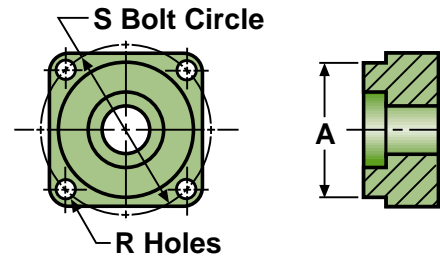
**TABLE 2 - SAE - 2 Bolt Mount**



	A	K	M
<b>SAE AA</b>	2.000	3.250	0.406
<b>SAE A</b>	3.250	4.187	0.438
<b>SAE B</b>	4.000	5.750	0.562
<b>SAE C</b>	5.000	7.125	0.688
<b>SAE D</b>	6.000	9.000	0.812
<b>SAE E</b>	6.500	12.500	1.062
<b>SAE F</b>	7.000	13.781	1.062

Mounting Flange      Pilot Dim.      Flange Dimensions

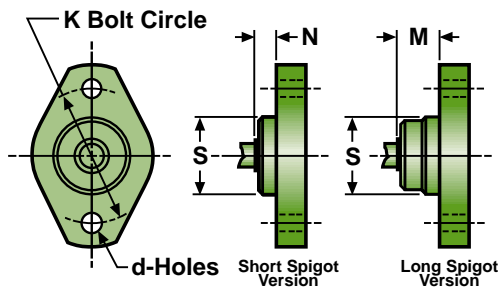
**TABLE 3 - SAE - 4 Bolt Mount**



	A	S	R
<b>USA4F17</b>	1.781	2.838	0.375
<b>SAE A</b>	3.250	4.125	0.438
<b>SAE B</b>	4.000	5.000	0.562
<b>SAE C</b>	5.000	6.375	0.562
<b>SAE D</b>	6.000	9.000	0.812
<b>SAE E</b>	6.500	12.500	0.812
<b>SAE F</b>	7.000	13.781	1.062

Mounting Flange      Pilot Dim.      Flange Dimensions

**TABLE 4 - Metric Oval Mount (2 Bolt)**

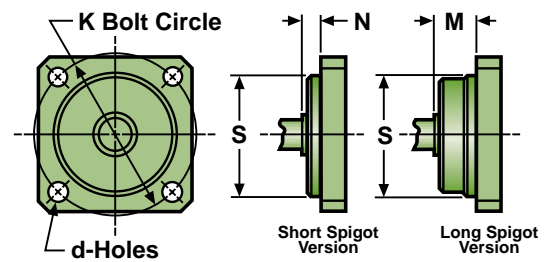


(All dimensions in mm)

	S	K	d	N	M
<b>32 A2</b>	32	56	6.6	8	16
<b>40 A2</b>	40	63	6.6	8	16
<b>50 A2</b>	50	80	9	8	20
<b>63 A2</b>	63	100	9	8	20
<b>80 A2</b>	80	109	11	8	20
<b>100 A2</b>	100	140	14	10	25
<b>112 A2</b>	112	160	14	10	25
<b>125 A2</b>	125	180	18	10	32
<b>140 A2</b>	140	200	18	10	32
<b>160 A2</b>	160	224	22	10	40
<b>180 A2</b>	180	250	22	10	40
<b>200 A2</b>	200	280	26	10	50

Mounting Flange      Pilot Dim.      Flange Dimensions

**TABLE 5 - Metric Square Mount (4 Bolt)**

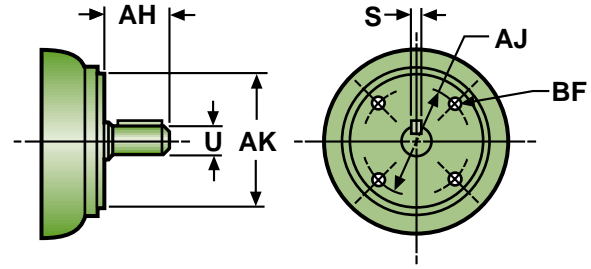


(All dimensions in mm)

	S	K	d	N	M
<b>63 B4</b>	63	85	9	8	20
<b>80 B4</b>	80	103	9	8	20
<b>80 S4</b>	80	100	9	8	20
<b>100 B4</b>	100	125	11	10	25
<b>112 B4</b>	112	140	11	10	25
<b>125 B4</b>	125	160	14	10	32
<b>140 B4</b>	140	180	14	10	32
<b>160 B4</b>	160	200	18	10	40
<b>180 B4</b>	180	224	18	10	40
<b>200 B4</b>	200	250	22	10	50
<b>224 B4</b>	224	280	22	10	50
<b>250 B4</b>	250	315	26	10	50

Mounting Flange      Pilot Dim.      Flange Dimensions

**TABLE 6 - NEMA 'C' Motor Dimensions**



**U-Frame Dimensions**

	182UC 184UC	213UC 215UC	254UC 256UC	284UC 286UC	324USC 326USC	324UC 326UC	364USC 365USC	364UC 365UC	404USC 405USC	404UC 405UC	444USC 445USC	444UC 445UC
<b>AH</b>	2.125	2.75	3.50	4.625	3.00	5.375	3.50	6.125	4.00	6.875	4.00	8.375
<b>U</b>	7/8	1 1/8	1 3/8	1 5/8	1 5/8	1 7/8	1 7/8	2 1/8	2 1/8	2 3/8	2 1/8	2 7/8
<b>S</b>	3/16	1/4	5/16	3/8	3/8	1/2	1/2	1/2	1/2	5/8	1/2	3/4
<b>AK</b>	4.50	8.50	8.50	10.50	12.50	12.50	12.50	12.50	12.50	12.50	16.00	16.00
<b>AJ</b>	5.875	7.25	7.25	9.00	11.00	11.00	11.00	11.00	11.00	11.00	14.00	14.00
<b>BF</b>	3/8-16	1/2-13	1/2-13	1/2-13	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11
<b>HP*</b>	1/2	3/5	7.5/10	15/20	25/30	25/30	40/50	40/50	60/75	60/75	125/150	125/150

**T-Frame Dimensions**

	056C	143TC 145TC	182TC 184TC	213TC 215TC	254TC 256TC	284TSC 286TSC	284TC 286TC	324TSC 326TSC	324TC 326TC	364TSC 365TSC	364TC 365TC	404TSC 405TSC	404TC 405TC	444TSC 449TSC	444TC 449TC
<b>AH</b>	2.062	2.125	2.625	3.125	3.75	3.00	4.375	3.50	5.00	3.50	5.62	4.00	7.00	4.50	8.25
<b>U</b>	5/8	7/8	1 1/8	1 3/8	1 5/8	1 5/8	1 7/8	1 7/8	2 1/8	1 7/8	2 3/8	2 1/8	2 7/8	2 3/8	3 3/8
<b>S</b>	3/16	3/16	1/4	5/16	3/8	3/8	1/2	1/2	1/2	1/2	5/8	1/2	3/4	5/8	7/8
<b>AK</b>	4.50	4.50	8.50	8.50	8.50	10.50	10.50	12.50	12.50	12.50	12.50	12.50	12.50	16.00	16.00
<b>AJ</b>	5.875	5.875	7.25	7.25	7.25	9.00	9.00	11.00	11.00	11.00	11.00	11.00	11.00	14.00	14.00
<b>BF</b>	3/8-16	3/8-16	1/2-13	1/2-13	1/2-13	1/2-13	1/2-13	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11	5/8-11
<b>HP*</b>	1/4	1/2	3/5	7.5/10	15/20	25/30	25/30	40/50	40/50	60/75	60/75	100/125	100/125	150/200	150/200

\* Horse Power at 1750 RPM

## Magnaloy Cast Aluminum Mounts

MAGNALOY CAST ALUMINUM MOUNTS are permanent mold cast of lightweight, high strength aluminum alloy and incorporate many unique design features. Custom molded OSHA orange coupling access covers are included for mounts larger than motor group size 056. These covers are quickly and securely retained via a lip-tab on one end and a single self-tapping screw on the other. Magnaloy's horizontal mounts are supplied with a pre-cast drain hole for residual fluids. This unique feature aids in quick detection of leaky seals and other trouble areas.

Using Magnaloy's Mount ensures a lightweight, high strength, precision mount for efficient assembly, quiet operation, accurate shaft alignment and complete coupling concealment.

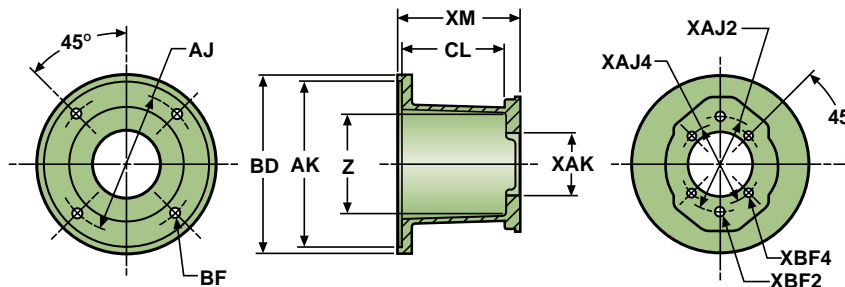
## Magnaloy Horizontal Pump/Motor Mounts

MAGNALOY'S HORIZONTAL PUMP/MOTOR MOUNTS are available for mounting NEMA C'face motors in frame sizes 56C through 449TSC to most SAE and Metric 2 and 4 bolt pump flanges.

A MOUNT KIT is included which contains all bolts and washers required to attach the pump and motor to the mount.

## Horizontal Mount Selection Method

1. Check TABLES 2 thru 5 to determine pump flange size.
2. Measure the pump shaft length from the shaft end to the flange mounting face and ADD to the motor shaft length shown in TABLE 6. An additional 1/16 inch (minimum) is recommended for shaft end clearance.
3. Refer to the appropriate TABLE (7 thru 11) according to the NEMA motor frame size and locate the applicable pump flange selection from STEP 1, above.
4. Select the mount length option (dimension 'XM' or 'M' in tables ) based on the minimum length determined in STEP 2, above.
5. Check for proper clearance between the mount inner surfaces and the coupling O.D. (dimension 'Z' and 'CL' in tables). Dimensional data for Magnaloy Couplings is shown in TABLE 1 for reference. A complete Magnaloy Coupling catalog is available upon request.



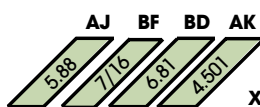
**TABLE 7 - NEMA Frames 56C, 143TC/145TC, 182UC/184UC**

**Horizontal Mounting (or Vertical Mounting - Option A)**

MOTOR END DATA		PUMP END DATA					MOUNT NO.		CL XM		MOUNT NO.		CL XM		MOUNT NO.		CL XM		
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
5.88	7/16	6.81	4.501																
USA4F17	4 Bolt	1.782			2.84	5/16-18			M056354F	2.81	3.50	M056424F	3.56	4.25	M056454F	3.81	4.50		
SAE AA	2 Bolt	2.001	3.25	3/8-16					M056352AA	2.81	3.50	M056422AA	3.56	4.25	M056452AA	3.81	4.50		
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16			M056352A	2.81	3.50	M056422A	3.56	4.25	M056452A	3.81	4.50		
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18			M0563580M	2.81	3.50	M0564280M	3.56	4.25	M0564580M	3.81	4.50		
80 S4	4 Bolt	80.01mm			100mm	5/16-18			M0563580MS	2.81	3.50	M0564280MS	3.56	4.25	M0564580MS	3.81	4.50		

RADIAL CLEARANCE "Z" = 4.15

**MOTOR END DATA**



RADIAL CLEARANCE "Z" = 4.15

\*RADIAL CLEARANCE "Z" = 4.10

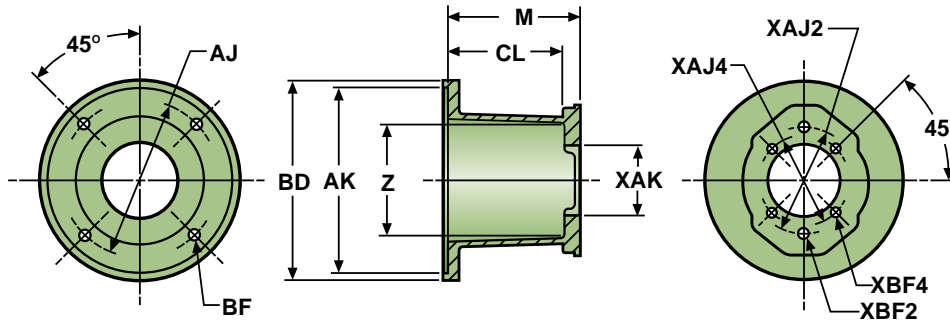
MOTOR END DATA		PUMP END DATA					MOUNT NO.		CL XM		MOUNT NO.		CL XM		MOUNT NO.		CL XM		
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
5.88	7/16	6.81	4.501																
USA4F17	4 Bolt	1.782			2.84	5/16-18			M056504F	4.31	5.00	M056524F	4.56	5.25					
SAE AA	2 Bolt	2.001	3.25	3/8-16					M056502AA	4.31	5.00	M056522AA	4.56	5.25					
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16			M056502A	4.31	5.00	M056522A	4.56	5.25					
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13			M056502B*	3.93	5.00	M056522B*	4.18	5.25					
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18			M0565080M	4.31	5.00	M0565280M	4.56	5.25					
80 S4	4 Bolt	80.01mm			100mm	5/16-18			M0565080MS	4.31	5.00	M0565280MS	4.56	5.25					
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16			M05650100M*	3.93	5.00	M05652100M*	4.18	5.25					

PUMP FLANGE

PUMP END DATA

5.00 LENGTH

5.25 LENGTH



**TABLE 8A - NEMA Frames 182TC - 256TC, 213UC-256UC**

**Horizontal Mounting (or Vertical Mounting - Option A)**

RADIAL CLEARANCE "Z" = 5.00

**182-A Casting**



MOTOR END DATA		PUMP END DATA					MOUNT NO. CL M			MOUNT NO. CL M			MOUNT NO. CL M				
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
7/25	17/32	9.00	8.501														
USA4F17	4 Bolt			1.782			2.84	5/16-18	M182474F	4.00	4.75	M182504F	4.31	5.00	M182524F	4.31	5.25
SAE AA	2 Bolt			2.001	3.25	3/8-16			M182472AA	4.00	4.75	M182502AA	4.31	5.00	M182522AA	4.31	5.25
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	M182472A	4.00	4.75	M182502A	4.31	5.00	M182522A	4.31	5.25
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	M1824780M	4.00	4.75	M1825080M	4.31	5.00	M1825280M	4.31	5.25
80 S4	4 Bolt			80.01mm			100mm	5/16-18	M1824780MS	4.00	4.75	M1825080MS	4.31	5.00	M1825280MS	4.31	5.25
PUMP FLANGE		PUMP END DATA					4.75 LENGTH			5.00 LENGTH			5.25 LENGTH				

MOTOR END DATA		PUMP END DATA					MOUNT NO. CL M			MOUNT NO. CL M				
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M
7/25	17/32	9.00	8.501											
USA4F17	4 Bolt			1.782			2.84	5/16-18	M182584F	5.06	5.81	M182684F	6.06	6.81
SAE AA	2 Bolt			2.001	3.25	3/8-16			M182582AA	5.06	5.81	M182682AA	6.06	6.81
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	M182582A	5.06	5.81	M182682A	6.06	6.81
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	M1825880M	5.06	5.81	M1826880M	6.06	6.81
80 S4	4 Bolt			80.01mm			100mm	5/16-18	M1825880MS	5.06	5.81	M1826880MS	6.06	6.81
PUMP FLANGE		PUMP END DATA					5.81 LENGTH			6.81 LENGTH				

**TABLE 8B - NEMA Frames 182TC - 256TC, 213UC-256UC**

**Horizontal Mounting**

RADIAL CLEARANCE "Z" = 5.00

**182-A Casting**



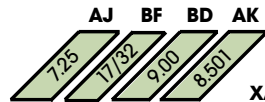
MOTOR END DATA		PUMP END DATA					MOUNT NO. CL M			MOUNT NO. CL M			MOUNT NO. CL M				
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
7/25	17/32	9.00	8.501														
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	M182522B	4.50	5.25	M182582B	5.06	5.81	M182602B	5.25	6.00
SAE C	2(4) Bolt			5.001	7.12	5/8-11	6.38	1/2-13	M182522C	4.50	5.25	M182582C	5.06	5.81	M182602C	5.25	6.00
100 A2/B4	2(4) Bolt			100.01mm	140mm	1/2-13	125mm	3/8-16	M18252100M	4.50	5.25	M18258100M	5.06	5.81	M18260100M	5.25	6.00
125 A2/B4	2(4) Bolt			125.01mm	180mm	5/8-11	160mm	1/2-13	M18252125M	4.50	5.25	M18258125M	5.06	5.81	M18260125M	5.25	6.00
PUMP FLANGE		PUMP END DATA					5.25 LENGTH			5.81 LENGTH			6.00 LENGTH				

# Horizontal Pump/Motor Mounts



## MOTOR END DATA

RADIAL CLEARANCE "Z" = 5.00



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M182682B	6.06	6.81	M182702B	6.25	7.00
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M182682C	6.06	6.81	M182702C	6.25	7.00
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M18268100M	6.06	6.81	M18270100M	6.25	7.00
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M18268125M	6.06	6.81	M18270125M	6.25	7.00

PUMP FLANGE

PUMP END DATA

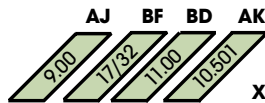
6.81 LENGTH

7.00 LENGTH

**TABLE 9 - NEMA Frames 284TC/TSC - 286TC/TSC, 284UC/286UC**

## MOTOR END DATA

RADIAL CLEARANCE "Z" = 6.40



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE A	2(4) Bolt	3.25	4.19	3/8-16	4.12	3/8-16	M284682A	6.00	6.88	M284752A	6.62	7.50	M284862A	7.81	8.69
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M284682B	6.00	6.88	M284752B	6.62	7.50	M284862B	7.81	8.69
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M284682C	6.00	6.88	M284752C	6.62	7.50	M284862C	7.81	8.69
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	M2846880M	6.00	6.88	M2847580M	6.62	7.50	M2848680M	7.81	8.69
80 S4	4 Bolt	80.01mm			100mm	5/16-18	M2846880MS	6.00	6.88	M2847580MS	6.62	7.50	M2848680MS	7.81	8.69
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M28468100M	6.00	6.88	M28475100M	6.62	7.50	M28486100M	7.81	8.69
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M28468125M	6.00	6.88	M28475125M	6.62	7.50	M28486125M	7.81	8.69

PUMP FLANGE

PUMP END DATA

6.88 LENGTH

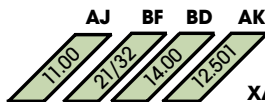
7.50 LENGTH

8.69 LENGTH

**TABLE 10 - NEMA Frames 324TC/TSC - 405TC/TSC, 324UC/USC - 405UC/USC**

## MOTOR END DATA

RADIAL CLEARANCE "Z" = 7.74



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	M324762B	6.75	7.62	M324872B	7.88	8.75
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M324762C	6.75	7.62	M324872C	7.88	8.75
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10	M324762D	6.75	7.62	M324872D	7.88	8.75
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	M32476100M	6.75	7.62	M32487100M	7.88	8.75
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	M32476125M	6.75	7.62	M32487125M	7.88	8.75
160 A2/B4	2(4) Bolt	160.01mm	224mm	3/4-10	200mm	5/8-11	M32476160M	6.75	7.62	M32487160M	7.88	8.75
180 B4	4 Bolt	180.01mm			224mm	5/8-11	M32476180M	6.75	7.62	M32487180M	7.88	8.75

PUMP FLANGE

PUMP END DATA

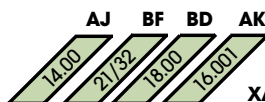
7.62 LENGTH

8.75 LENGTH

**TABLE 11 - NEMA Frames 444TC/TSC - 449TC/TSC, 444UC/USC - 445UC/USC**

## MOTOR END DATA

RADIAL CLEARANCE "Z" = 10.75



		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	M444882C	7.12	8.88
SAE D	2(4) Bolt	6.001	9.00	3/4-10	9.00	3/4-10	M444882D	7.12	8.88
SAE E	2 Bolt	6.501	12.50	1-8			M444882E	7.12	8.88

PUMP FLANGE

PUMP END DATA

8.88 LENGTH



MAGNALOY'S VERTICAL PUMP/MOTOR MOUNTS are designed to allow direct mounting through the reservoir top. The pump and mount assembly is enclosed inside the reservoir resulting in a safer, quieter, more compact installation. Vertical mounts are available in NEMA C'face motor frame sizes 56C through 256TC to most SAE and Metric 2 and 4 bolt pump flanges. Two mounting options are available to give added flexibility in vertical power unit design.

A MOUNT KIT is included which contains all bolts and washers required to attach the pump and motor to the mount. The kit DOES NOT contain hardware for attaching the mount to the reservoir.

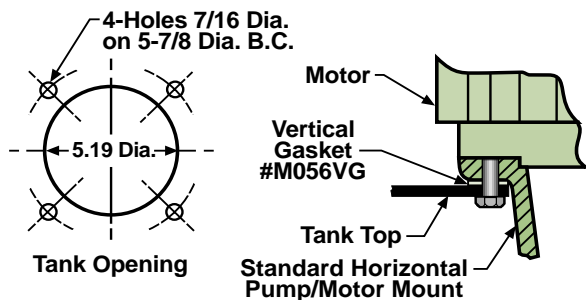


## Vertical Mount Selection Method

1. Check TABLES 2 thru 5 to determine pump flange size.
2. Measure the pump shaft length from the shaft end to the flange mounting face and ADD to the motor shaft length shown in TABLE 6. An additional 1/16 inch (minimum) is recommended for shaft end clearance.
3. Determine mounting option desired as shown in Illustrations B, C, D and E depending on the NEMA frame size.
4. Refer to the appropriate TABLE (7, 8A, 12 or 13) according to NEMA motor frame size and locate the applicable pump flange selection from STEP 1, above. NOTE, Option A for vertical mounting NEMA 182TC thru 256TC is applicable ONLY to SAE-A and smaller pump flanges.
5. Select the mount length option (dimension "XM" or "M" in tables) based on the minimum length determined in STEP 2, above.
6. Check for proper clearance between the mount inner surfaces and the coupling O.D. (dimension "Z" and "CL" in tables). Dimensional data for Magnaloy Couplings is shown in TABLE 1 for reference. A complete Magnaloy Coupling catalog is available upon request.

## NEMA Frame 56C thru 145TC Vertical Mounting

### OPTION A

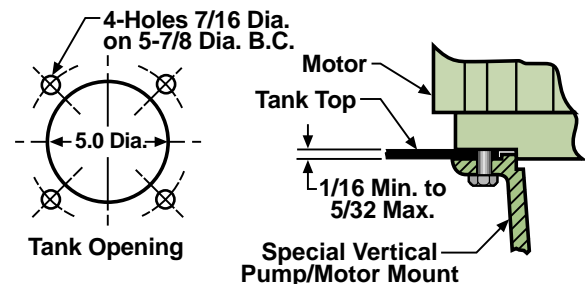


**Illustration B**

This economical vertical mounting option allows Tank Top Drop-thru mounting for ease of assembly and utilizes the standard horizontal mount and a sealing gasket.

To order OPTION A, specify the Horizontal Pump/Motor Mount number from TABLE 7 and Vertical Gasket number M056VG.

### OPTION B



**Illustration C**

This mounting option requires inside tank access to position the mount/pump sub-assembly through the tank top opening.

To order OPTION B, specify the Vertical Pump/Motor Mount number from TABLE 12 followed with the letter 'V' as shown in TABLE 12. No gasket is required with this mounting option.



**TABLE 12 - NEMA Frames 56C, 143TC/145TC, 182UC/184UC**



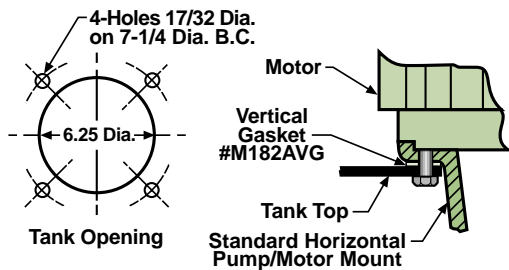
MOTOR END DATA						RADIAL CLEARANCE "Z" = 4.15											
AJ	BF	BD	AK														
5.88	7.16	6.81	4.501	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt			1.782			2.84	5/16-18	M056354FV	2.81	3.50	M056424FV	3.56	4.25	M056454FV	3.81	4.50
SAE AA	2 Bolt			2.001	3.25	3/8-16			M056352AAV	2.81	3.50	M056422AAV	3.56	4.25	M056452AAV	3.81	4.50
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	M056352AV	2.81	3.50	M056422AV	3.56	4.25	M056452AV	3.81	4.50
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	M0563580MV	2.81	3.50	M0564280MV	3.56	4.25	M0564580MV	3.81	4.50
80 S4	4 Bolt			80.01mm			100mm	5/16-18	M0563580MSV	2.81	3.50	M0564280MSV	3.56	4.25	M0564580MSV	3.81	4.50

MOTOR END DATA						RADIAL CLEARANCE "Z" = 4.15 *RADIAL CLEARANCE "Z" = 4.10											
AJ	BF	BD	AK														
5.88	7.16	6.81	4.501	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt			1.782			2.84	5/16-18	M056504FV	4.31	5.00	M056524FV	4.56	5.25			
SAE AA	2 Bolt			2.001	3.25	3/8-16			M056502AAV	4.31	5.00	M056522AAV	4.56	5.25			
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	M056502AV	4.31	5.00	M056522AV	4.56	5.25			
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	M056502BV*	3.93	5.00	M056522BV*	4.18	5.25			
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	M0565080MV	4.31	5.00	M0565280MV	4.56	5.25			
80 S4	4 Bolt			80.01mm			100mm	5/16-18	M0565080MSV	4.31	5.00	M0565280MSV	4.56	5.25			
100 A2/B4	2(4) Bolt			100.01mm	140mm	1/2-13	125mm	3/8-16	M05650100MV*	3.93	5.00	M05652100MV*	4.18	5.25			

**NOTE:**  
See drawing top of page 10 for dimensional reference

## NEMA Frame 182TC thru 256TC Vertical Mounting

### OPTION A

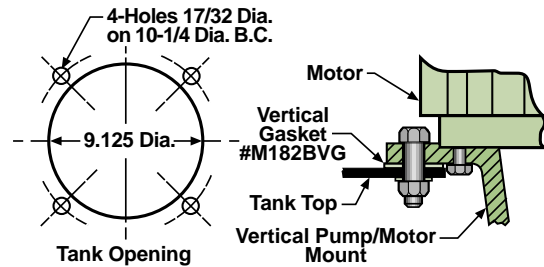


**Illustration D**

This mounting option offers an economical alternative to OPTION B, but is available with SAE-A pump flanges and smaller only. OPTION A utilizes the standard horizontal mount and a sealing gasket.

To order OPTION A, specify the Horizontal Pump/Motor Mount number from TABLE 8A and Vertical Gasket number M182AVG.

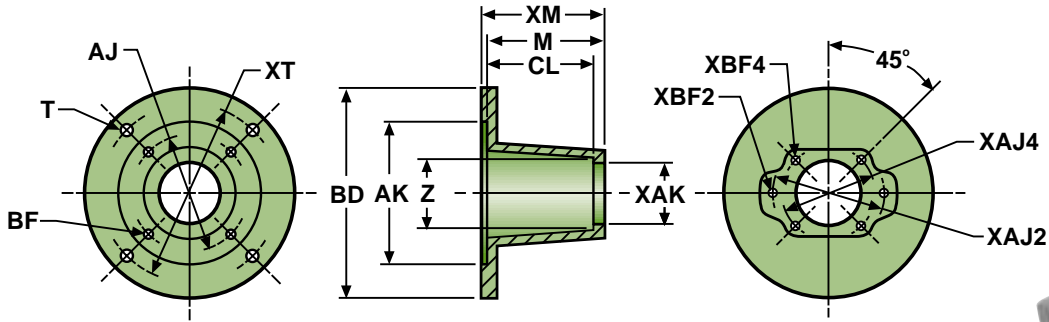
### OPTION B



**Illustration E**

This option utilizes an oversize mounting flange on the motor end of the mount and requires a larger diameter tank top opening giving additional working clearances for assembly to reservoir. Mounting OPTION B is available in the pump/motor length combinations shown in TABLE 13.

To order OPTION B, specify the Vertical Pump/Motor Mount number from TABLE 13 followed with the letter 'V', as shown in TABLE 13. The required Vertical Gasket number M182BVG is included.

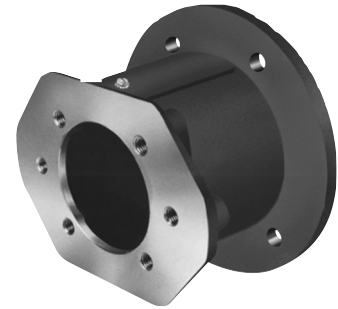


**TABLE 13 - NEMA Frames 182TC - 256TC, 213UC/256UC**

MOTOR END DATA							RADIAL CLEARANCE "Z" = 5.00										
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
7/25	17/32	11.50	8.501														
USA4F17	4 Bolt			1.782			2.84	5/16-18	M182504FV	4.31	5.00	M182524FV	4.31	5.25	M182584FV	5.06	5.81
SAE AA	2 Bolt			2.001	3.25	3/8-16			M182502AAV	4.31	5.00	M182522AAV	4.31	5.25	M182582AAV	5.06	5.81
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	M182502AV	4.31	5.00	M182522AV	4.31	5.25	M182582AV	5.06	5.81
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13				M182522BV	4.50	5.25	M182582BV	5.06	5.81
SAE C	2(4) Bolt			5.001	7.12	5/8-11	6.38	1/2-13				M182522CV	4.50	5.25	M182582CV	5.06	5.81
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	M1825080MV	4.31	5.00	M1825280MV	4.31	5.25	M1825880MV	5.06	5.81
80 S4	4 Bolt			80.01mm			100mm	5/16-18	M1825080MSV	4.31	5.00	M1825280MSV	4.31	5.25	M1825880MSV	5.06	5.81
100 A2/B4	2(4) Bolt			100.01mm	140mm	1/2-13	125mm	3/8-16				M18252100MV	4.50	5.25	M18258100MV	5.06	5.81
125 A2/B4	2(4) Bolt			125.01mm	180mm	5/8-11	160mm	1/2-13				M18252125MV	4.50	5.25	M18258125MV	5.06	5.81
<b>PUMP FLANGE</b>				<b>PUMP END DATA</b>				<b>5.00 LENGTH</b>			<b>5.25 LENGTH</b>			<b>5.81 LENGTH</b>			

MOTOR END DATA							RADIAL CLEARANCE "Z" = 5.00										
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
7/25	17/32	11.50	8.501														
USA4F17	4 Bolt			1.782			2.84	5/16-18	M182684FV	6.06	6.81						
SAE AA	2 Bolt			2.001	3.25	3/8-16			M182682AAV	6.06	6.81						
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	M182682AV	6.06	6.81						
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	M182682BV	6.06	6.81	M182702BV	6.25	7.00			
SAE C	2(4) Bolt			5.001	7.12	5/8-11	6.38	1/2-13	M182682CV	6.06	6.81	M182702CV	6.25	7.00			
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	M1826880MV	6.06	6.81						
80 S4	4 Bolt			80.01mm			100mm	5/16-18	M1826880MSV	6.06	6.81						
100 A2/B4	2(4) Bolt			100.01mm	140mm	1/2-13	125mm	3/8-16	M18268100MV	6.06	6.81	M18270100MV	6.25	7.00			
125 A2/B4	2(4) Bolt			125.01mm	180mm	5/8-11	160mm	1/2-13	M18268125MV	6.06	6.81	M18270125MV	6.25	7.00			
<b>PUMP FLANGE</b>				<b>PUMP END DATA</b>				<b>6.81 LENGTH</b>			<b>7.00 LENGTH</b>						

MAGNALOY'S PUMP/ENGINE MOUNTS are available for mounting SAE flange-mount pumps to gasoline and diesel engines with pilot mounting capabilities. Four basic engine pilot mounting configurations are available from inventory determined by the pilot diameter. Optional sizes are available upon request.



## Engine Mount Selection Method

1. Check TABLES 2 thru 5 to determine pump flange size.
2. Determine Engine Pilot Group from TABLE 14 (other sizes available, consult factory).
3. Measure the pump shaft length from the shaft end to the flange mounting face and ADD to the engine shaft length measured from shaft end to pilot face. An additional 1/16 inch (minimum) is recommended for shaft end clearance.
4. Refer to the appropriate TABLE (15 thru 18) according to Engine Pilot Group determined in STEP 2, above and locate the applicable pump flange selection from STEP 1, above.
5. Select mount length option (dimension "XM" in tables) based on the minimum length determined in STEP 3, above.
6. Check for proper clearance between the mount inner surfaces and the coupling O.D. (dimension "Z" and "CL" in tables). Dimensional data for Magnaloy Couplings is shown in TABLE 1 for reference. A complete Magnaloy Coupling catalog is available upon request.

### TABLE 14 - Engine Pilot Groups

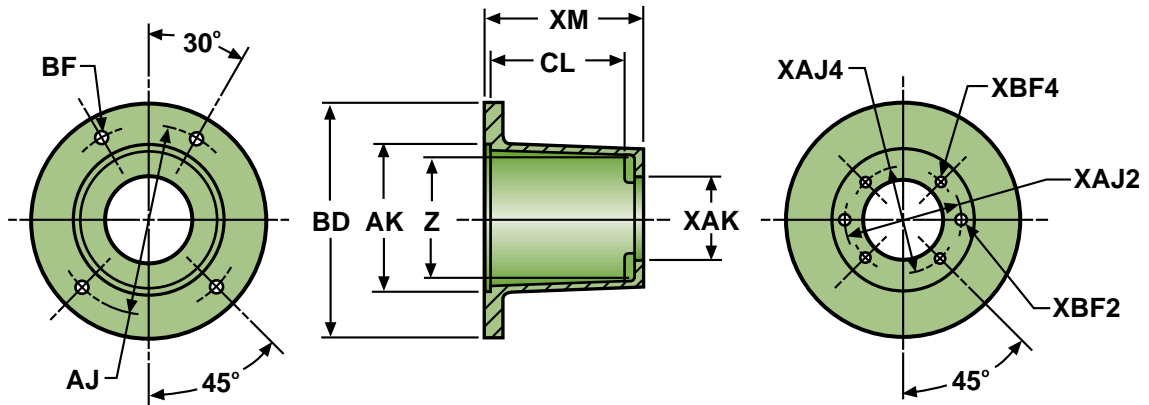
Size	K	J
E575	5.75	6.50
E644	6.437	7.75
E700	7.00	7.75
E787	7.875	9.25

Pilot Group    Pilot Ø    Bolt Circle Ø

### TABLE 15 - E575 Pilot Gasoline and Diesel Engines

ENGINE END DATA		RADIAL CLEARANCE "Z" = 4.15					"Z" = 4.15					"Z" = 5.00						
AJ	BF	BD	AK	*RADIAL CLEARANCE "Z" = 4.10					* "Z" = 4.10									
6.50	13/32	7.50	5.752															
				XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	
USA4F17	4 Bolt			1.782			2.84	5/16-18	E575504F	4.31	5.00	E575524F	4.56	5.25	E575604F	5.14	6.00	
SAE AA	2 Bolt			2.001	3.25	3/8-16			E575502AA	4.31	5.00	E575522AA	4.56	5.25	E575602AA	5.14	6.00	
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	E575502A	4.31	5.00	E575522A	4.56	5.25	E575602A	5.14	6.00	
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	E575502B*	3.93	5.00	E575522B*	4.18	5.25	E575602B	5.14	6.00	
80 A2/B4	2(4) Bolt			80.01mm	109mm	3/8-16	103mm	5/16-18	E5755080M	4.31	5.00	E5755280M	4.56	5.25	E5756080M	5.14	6.00	
80 S4	4 Bolt			80.01mm			100mm	5/16-18	E5755080MS	4.31	5.00	E5755280MS	4.56	5.25	E5756080MS	5.14	6.00	
100 A2/B4	2(4) Bolt			100.01mm	140mm	1/2-13	125mm	3/8-16	E57550100M*	3.93	5.00	E57552100M*	4.18	5.25	E57560100M	5.14	6.00	
<b>PUMP FLANGE</b>				<b>PUMP END DATA</b>				<b>5.00 LENGTH</b>			<b>5.25 LENGTH</b>			<b>6.00 LENGTH **</b>				

\*\* SOCKET HEAD CAP SCREWS REQUIRED ON ENGINE END - THIS LENGTH ONLY.



**TABLE 16 - E644 Pilot Gasoline and Diesel Engines**



**ENGINE END DATA**

	AJ	BF	BD	AK
7/16				
15/32				
9/16				
6.439				

**RADIAL CLEARANCE "Z" = 5.00**

	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
<b>USA4F17</b>	4 Bolt	1.782		2.84	5/16-18	<b>E644504F</b>	4.05	5.00	<b>E644554F</b>	4.36	5.50
<b>SAE AA</b>	2 Bolt	2.001	3.25	3/8-16		<b>E644502AA</b>	4.05	5.00	<b>E644552AA</b>	4.36	5.50
<b>SAE A</b>	2(4) Bolt	3.251	4.19	3/8-16	4.12 3/8-16	<b>E644502A</b>	4.05	5.00	<b>E644552A</b>	4.36	5.50
<b>SAE B</b>	2(4) Bolt	4.001	5.75	1/2-13	5.00 1/2-13				<b>E644552B</b>	4.36	5.50
<b>80 A2/B4</b>	2(4) Bolt	80.01mm	109mm	3/8-16	103mm 5/16-18	<b>E6445080M</b>	4.05	5.00	<b>E6445580M</b>	4.36	5.50
<b>80 S4</b>	4 Bolt	80.01mm			100mm 5/16-18	<b>E6445080MS</b>	4.05	5.00	<b>E6445580MS</b>	4.36	5.50
<b>100 A2/B4</b>	2(4) Bolt	100.01mm	140mm	1/2-13	125mm 3/8-16				<b>E64455100M</b>	4.36	5.50

**PUMP FLANGE**                      **PUMP END DATA**                      **5.00 LENGTH**                      **5.50 LENGTH**

**ENGINE END DATA**

	AJ	BF	BD	AK
7/16				
15/32				
9/16				
6.439				

**RADIAL CLEARANCE "Z" = 5.00**

	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
<b>USA4F17</b>	4 Bolt	1.782		2.84	5/16-18	<b>E644604F</b>	5.11	6.00	<b>E644704F</b>	6.11	7.00			
<b>SAE AA</b>	2 Bolt	2.001	3.25	3/8-16		<b>E644602AA</b>	5.11	6.00	<b>E644702AA</b>	6.11	7.00			
<b>SAE A</b>	2(4) Bolt	3.251	4.19	3/8-16	4.12 3/8-16	<b>E644602A</b>	5.11	6.00	<b>E644702A</b>	6.11	7.00			
<b>SAE B</b>	2(4) Bolt	4.001	5.75	1/2-13	5.00 1/2-13	<b>E644602B</b>	5.11	6.00	<b>E644702B</b>	6.11	7.00	<b>E644722B</b>	6.31	7.25
<b>SAE C</b>	2(4) Bolt	5.001	7.12	5/8-11	6.38 1/2-13	<b>E644602C</b>	5.11	6.00	<b>E644702C</b>	6.11	7.00	<b>E644722C</b>	6.31	7.25
<b>80 A2/B4</b>	2(4) Bolt	80.01mm	109mm	3/8-16	103mm 5/16-18	<b>E6446080M</b>	5.11	6.00	<b>E6447080M</b>	6.11	7.00			
<b>80 S4</b>	4 Bolt	80.01mm			100mm 5/16-18	<b>E6446080MS</b>	5.11	6.00	<b>E6447080MS</b>	6.11	7.00			
<b>100 A2/B4</b>	2(4) Bolt	100.01mm	140mm	1/2-13	125mm 3/8-16	<b>E64460100M</b>	5.11	6.00	<b>E64470100M</b>	6.11	7.00	<b>E64472100M</b>	6.31	7.25
<b>125 A2/B4</b>	2(4) Bolt	125.01mm	180mm	5/8-11	160mm 1/2-13	<b>E64460125M</b>	5.11	6.00	<b>E64470125M</b>	6.11	7.00	<b>E64472125M</b>	6.31	7.25

**PUMP FLANGE**                      **PUMP END DATA**                      **6.00 LENGTH**                      **7.00 LENGTH**                      **7.25 LENGTH**



**TABLE 17 - E700 Pilot Gasoline and Diesel Engines**

ENGINE END DATA  
AJ BF BD AK  
7.75 15/32 9.00 7.002

RADIAL CLEARANCE "Z" = 5.00

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	E700504F	4.05	5.00	E700554F	4.36	5.50
SAE AA	2 Bolt	2.001	3.25	3/8-16			E700502AA	4.05	5.00	E700552AA	4.36	5.50
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E700502A	4.05	5.00	E700552A	4.36	5.50
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13				E700552B	4.36	5.50
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E7005080M	4.05	5.00	E7005580M	4.36	5.50
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E7005080MS	4.05	5.00	E7005580MS	4.36	5.50
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16				E70455100M	4.36	5.50

PUMP FLANGE                      PUMP END DATA                      5.00 LENGTH                      5.50 LENGTH

ENGINE END DATA  
AJ BF BD AK  
7.75 15/32 9.00 7.002

RADIAL CLEARANCE "Z" = 5.00

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
USA4F17	4 Bolt	1.782			2.84	5/16-18	E700604F	5.11	6.00	E700704F	6.11	7.00			
SAE AA	2 Bolt	2.001	3.25	3/8-16			E700602AA	5.11	6.00	E700702AA	6.11	7.00			
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E700602A	5.11	6.00	E700702A	6.11	7.00			
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	E700602B	5.11	6.00	E700702B	6.11	7.00	E700722B	6.31	7.25
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	E700602C	5.11	6.00	E700702C	6.11	7.00	E700722C	6.31	7.25
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E7006080M	5.11	6.00	E7007080M	6.11	7.00			
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E7006080MS	5.11	6.00	E7007080MS	6.11	7.00			
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	E70060100M	5.11	6.00	E70070100M	6.11	7.00	E70072100M	6.31	7.25
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	E70060125M	5.11	6.00	E70070125M	6.11	7.00	E70072125M	6.31	7.25

PUMP FLANGE                      PUMP END DATA                      6.00 LENGTH                      7.00 LENGTH                      7.25 LENGTH

**TABLE 18 - E787 Pilot Gasoline and Diesel Engines**

ENGINE END DATA  
AJ BF BD AK  
9.25 2 11.00 7.877

RADIAL CLEARANCE "Z" = 6.40

		XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
SAE A	2(4) Bolt	3.251	4.19	3/8-16	4.12	3/8-16	E787682A	5.80	6.88	E787752A	6.42	7.50	E787862A	7.61	8.69
SAE B	2(4) Bolt	4.001	5.75	1/2-13	5.00	1/2-13	E787682B	5.80	6.88	E787752B	6.42	7.50	E787862B	7.61	8.69
SAE C	2(4) Bolt	5.001	7.12	5/8-11	6.38	1/2-13	E787682C	5.80	6.88	E787752C	6.42	7.50	E787862C	7.61	8.69
80 A2/B4	2(4) Bolt	80.01mm	109mm	3/8-16	103mm	5/16-18	E7876880M	5.80	6.88	E7877580M	6.42	7.50	E7878680M	7.61	8.69
80 S4	4 Bolt	80.01mm			100mm	5/16-18	E7876880MS	5.80	6.88	E7877580MS	6.42	7.50	E7878680MS	7.61	8.69
100 A2/B4	2(4) Bolt	100.01mm	140mm	1/2-13	125mm	3/8-16	E78768100M	5.80	6.88	E78775100M	6.42	7.50	E78786100M	7.61	8.69
125 A2/B4	2(4) Bolt	125.01mm	180mm	5/8-11	160mm	1/2-13	E78768125M	5.80	6.88	E78775125M	6.42	7.50	E78786125M	7.61	8.69

PUMP FLANGE                      PUMP END DATA                      6.88 LENGTH                      7.50 LENGTH                      8.69 LENGTH

MAGNALOY'S WELDED STEEL MOUNTS are available for special mounting requirements where the standard aluminum mount is not available or where a steel mount is required. These mounts are manufactured with the same quality and precision of the standard aluminum mounts and are guaranteed to meet Magnaloy's minimum quality measurements shown in Illustration A, page 2. Magnaloy's Welded Steel Mounts are available for horizontal, vertical and engine applications in a nearly limitless choice of lengths in 1/4 inch increments.



MOUNTING KITS are NOT included with the Welded Steel mounts.

## Magnaloy Horizontal Welded Steel Pump/Motor Mounts

MAGNALOY'S HORIZONTAL WELDED STEEL MOUNTS are available for metric motor and metric pump dimensions in addition to NEMA motors and SAE pumps listed, consult factory for special requirements. To select a welded steel horizontal mount follow the selection method detailed on page 5. The length determined will be the minimum length recommended, additional length can be added depending upon coupling selection, consult factory for further assistance.

**TABLE 19 - NEMA 56C, 143TC/145TC, 182UC/184UC**

MOTOR END DATA RADIAL CLEARANCE "Z" = 4.03

	AJ	BF	BD	AK							
	5.88	7/16	6.81	4.501	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD	MOUNT NO.
<b>USA4F17</b>	4 Bolt				1.782			2.84	5/16-18	5.25	<b>S056 -- 4F</b>
<b>SAE AA</b>	2 Bolt				2.001	3.25	3/8-16			5.25	<b>S056 -- 2AA</b>
<b>SAE A</b>	2(4) Bolt				3.251	4.19	3/8-16	4.12	3/8-16	5.25	<b>S056 -- 2A</b>
<b>SAE B</b>	2(4) Bolt				4.001	5.75	1/2-13	5.00	1/2-13	7.00	<b>S056 -- 2B</b>
<b>SAE C</b>	2(4) Bolt				5.001	7.12	5/8-11	6.38	1/2-13	8.25	<b>S056 -- 2C</b>

PUMP FLANGE PUMP END DATA

(METRIC SIZES ALSO AVAILABLE)

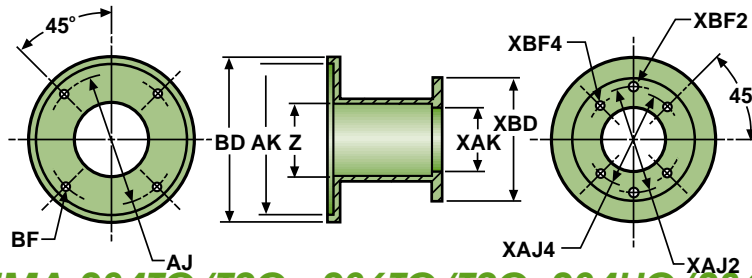
**TABLE 20 - NEMA 182TC - 256TC, 254UC/256UC**

MOTOR END DATA RADIAL CLEARANCE "Z" = 5.04

	AJ	BF	BD	AK							
	7.25	17/32	9.00	8.501	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD	MOUNT NO.
<b>USA4F17</b>	4 Bolt				1.782			2.84	5/16-18	6.00	<b>S182 -- 4F</b>
<b>SAE AA</b>	2 Bolt				2.001	3.25	3/8-16			6.00	<b>S182 -- 2AA</b>
<b>SAE A</b>	2(4) Bolt				3.251	4.19	3/8-16	4.12	3/8-16	6.00	<b>S182 -- 2A</b>
<b>SAE B</b>	2(4) Bolt				4.001	5.75	1/2-13	5.00	1/2-13	7.00	<b>S182 -- 2B</b>
<b>SAE C</b>	2(4) Bolt				5.001	7.12	5/8-11	6.38	1/2-13	8.25	<b>S182 -- 2C</b>
<b>SAE D</b>	2(4) Bolt				6.001	9.00	3/4-10	9.00	3/4-10	10.50	<b>S182 -- 2D</b>

PUMP FLANGE PUMP END DATA

(METRIC SIZES ALSO AVAILABLE)



**TABLE 21 - NEMA 284TC/TSC - 286TC/TSC, 284UC/286UC**

RADIAL CLEARANCE "Z" = 6.06

MOTOR END DATA		PUMP END DATA						MOUNT NO.	(METRIC SIZES ALSO AVAILABLE)	
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4			XBF4
9.00	17/32	11.00	10.501							
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	7.00	<b>S284 -- 2A</b>
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	7.00	<b>S284 -- 2B</b>
SAE C	2(4) Bolt			5.001	7.12	5/8-11	6.38	1/2-13	8.25	<b>S284 -- 2C</b>
SAE D	2(4) Bolt			6.001	9.00	3/4-10	9.00	3/4-10	10.50	<b>S284 -- 2D</b>
SAE E	2(4) Bolt			6.501	12.50	1-8	12.50	3/4-10	15.00	<b>S284 -- 2E</b>
SAE F	2(4) Bolt			7.001	13.78	1-8	13.78	1-8	16.00	<b>S284 -- 2F</b>

**TABLE 22 - NEMA 324TC/TSC - 405TC/TSC, 324UC/USC - 405UC/USC**

RADIAL CLEARANCE "Z" (See Below)

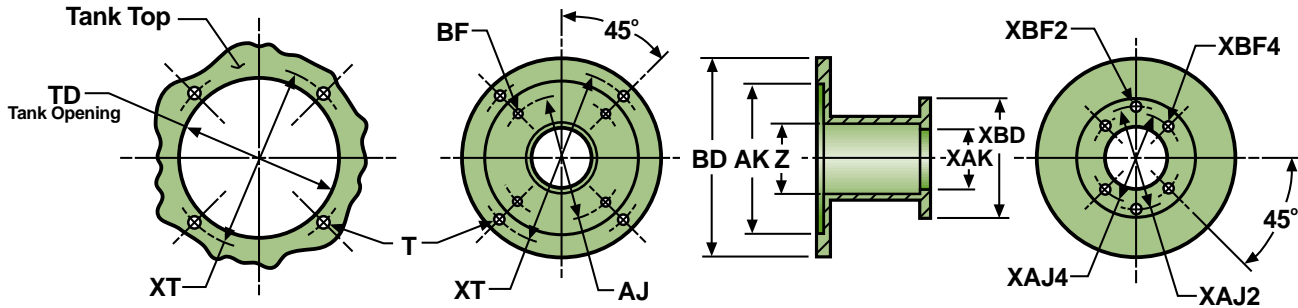
MOTOR END DATA		PUMP END DATA								MOUNT NO.	(METRIC SIZES ALSO AVAILABLE)
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD		
11.00	21/32	14.00	12.501								
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	9.25	7.98	<b>S324 -- 2A</b>
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	9.25	7.98	<b>S324 -- 2B</b>
SAE C	2(4) Bolt			5.001	7.12	5/8-11	6.38	1/2-13	9.25	7.98	<b>S324 -- 2C</b>
SAE D	2(4) Bolt			6.001	9.00	3/4-10	9.00	3/4-10	10.50	7.98	<b>S324 -- 2D</b>
SAE E	2(4) Bolt			6.501	12.50	1-8	12.50	3/4-10	15.00	7.98	<b>S324 -- 2E</b>
SAE F	2(4) Bolt			7.001	13.78	1-8	13.78	1-8	16.00	9.00	<b>S324 -- 2F</b>

**TABLE 23 - NEMA Frames 444TC/TSC - 449TC/TSC, 444UC/USC - 445UC/USC**

RADIAL CLEARANCE "Z" = 10.02

MOTOR END DATA		PUMP END DATA						MOUNT NO.	(METRIC SIZES ALSO AVAILABLE)	
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4			XBF4
14.00	21/32	17.00	16.001							
SAE A	2(4) Bolt			3.251	4.19	3/8-16	4.12	3/8-16	11.25	<b>S444 -- 2A</b>
SAE B	2(4) Bolt			4.001	5.75	1/2-13	5.00	1/2-13	11.25	<b>S444 -- 2B</b>
SAE C	2(4) Bolt			5.001	7.12	5/8-11	6.38	1/2-13	11.25	<b>S444 -- 2C</b>
SAE D	2(4) Bolt			6.001	9.00	3/4-10	9.00	3/4-10	11.25	<b>S444 -- 2D</b>
SAE E	2(4) Bolt			6.501	12.50	1-8	12.50	3/4-10	15.00	<b>S444 -- 2E</b>
SAE F	2(4) Bolt			7.001	13.78	1-8	13.78	1-8	16.00	<b>S444 -- 2F</b>

MAGNALOY'S VERTICAL WELDED STEEL MOUNTS utilize an Oversize Motor Flange-Tank Top Mounting design. Tank top openings (TP) and mounting hole dimensions (XT & T) are shown on the following drawing and tables. These mounts are also available for metric size motors and pumps, consult factory for special requirements. To select a welded steel vertical mount follow the selection method detailed on page 8. The length determined will be the minimum length recommended, additional length can be added depending upon coupling selection, consult factory for further assistance.



**TABLE 24 - NEMA 56C, 143TC/145TC, 182UC/184UC**

MOTOR END DATA			PUMP END DATA							MOTOR END DATA			MOUNT NO.	(METRIC SIZES ALSO AVAILABLE)
AJ	BF	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD	BD	XT	TD			
5.88	7/16	4.501	1.782			2.84	5/16-18	5.25	11.38	10.25	9.125	<b>S056 -- 4FV</b>		
SAE AA	2 Bolt		2.001	3.25	3/8-16			5.25	11.38	10.25	9.125	<b>S056 -- 2AAV</b>		
SAE A	2(4) Bolt		3.251	4.19	3/8-16	4.12	3/8-16	5.25	11.38	10.25	9.125	<b>S056 -- 2AV</b>		
SAE B	2(4) Bolt		4.001	5.75	1/2-13	5.00	1/2-13	7.00	11.38	10.25	9.125	<b>S056 -- 2BV</b>		
SAE C	2(4) Bolt		5.001	7.12	5/8-11	6.38	1/2-13	8.25	11.38	10.25	9.125	<b>S056 -- 2CV</b>		

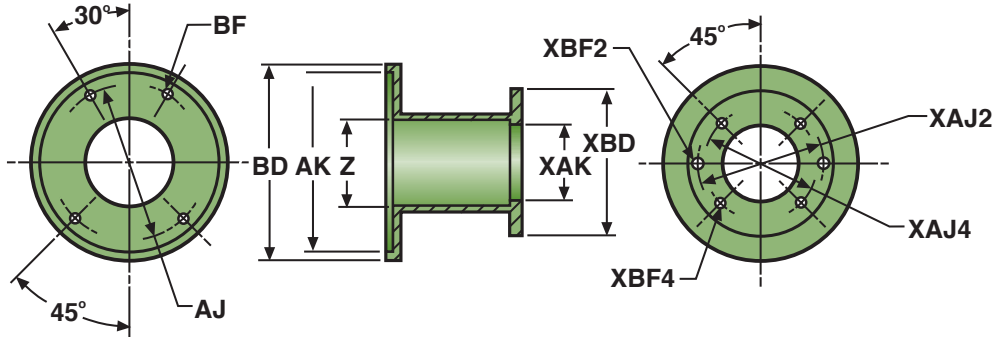
**TABLE 25 - NEMA 182TC - 256TC, 254UC/256UC**

MOTOR END DATA			PUMP END DATA							MOTOR END DATA			MOUNT NO.	(METRIC SIZES ALSO AVAILABLE)
AJ	BF	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD	BD	XT	TD			
7.25	17/32	8.501	1.782			2.84	5/16-18	6.00	11.50	10.25	9.125	<b>S182 -- 4FV</b>		
SAE AA	2 Bolt		2.001	3.25	3/8-16			6.00	11.50	10.25	9.125	<b>S182 -- 2AAV</b>		
SAE A	2(4) Bolt		3.251	4.19	3/8-16	4.12	3/8-16	6.00	11.50	10.25	9.125	<b>S182 -- 2AV</b>		
SAE B	2(4) Bolt		4.001	5.75	1/2-13	5.00	1/2-13	7.00	11.50	10.25	9.125	<b>S182 -- 2BV</b>		
SAE C	2(4) Bolt		5.001	7.12	5/8-11	6.38	1/2-13	8.25	11.50	10.25	9.125	<b>S182 -- 2CV</b>		
SAE D	2(4) Bolt		6.001	9.00	3/4-10	9.00	3/4-10	10.50	12.62	11.50	11.00	<b>S182 -- 2DV</b>		





MAGNALOY'S WELDED STEEL ENGINE MOUNTS are available for all engine pilot size configurations in addition to the 4 basic sizes listed. Metric pump flanges are also available, consult factory for special requirements. To select a welded steel pump/engine mount follow the selection method detailed on page 11. The length determined will be the minimum length recommended, additional length can be added depending upon coupling selection, consult factory for further assistance.



**TABLE 29 - E575 Pilot Gasoline and Diesel Engines**

RADIAL CLEARANCE "Z" = 4.03

ENGINE END DATA										
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD	MOUNT NO.
6.50	13/32	7.50	3.752							
USA4F17	4 Bolt			1.782			2.84	5/16 - 18	5.25	SE575 -- 4F
SAE AA	2 Bolt			2.001	3.25	3/8 - 16			5.25	SE575 -- 2AA
SAE A	2(4) Bolt			3.251	4.19	3/8 - 16	4.12	3/8 - 16	5.25	SE575 -- 2A
SAE B	2(4) Bolt			4.001	5.75	1/2 - 13	5.00	1/2 - 13	7.00	SE575 -- 2B

(METRIC SIZES ALSO AVAILABLE)

**TABLE 30 - E644 Pilot Gasoline and Diesel**

RADIAL CLEARANCE "Z" = 5.04

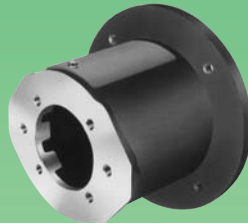
ENGINE END DATA										
AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	XBD	MOUNT NO.
7.75	15/32	9.00	6.440							
USA4F17	4 Bolt			1.782			2.84	5/16 - 18	5.25	SE644 -- 4F
SAE AA	2 Bolt			2.001	3.25	3/8 - 16			5.25	SE644 -- 2AA
SAE A	2(4) Bolt			3.251	4.19	3/8 - 16	4.12	3/8 - 16	5.25	SE644 -- 2A
SAE B	2(4) Bolt			4.001	5.75	1/2 - 13	5.00	1/2 - 13	7.00	SE644 -- 2B
SAE C	2(4) Bolt			5.001	7.12	5/8 - 11	6.38	1/2 - 13	8.25	SE644 -- 2C
SAE D	2(4) Bolt			6.001	9.00	3/4 - 10	9.00	3/4 - 10	10.50	SE644 -- 2D

(METRIC SIZES ALSO AVAILABLE)



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magnaloy has the products  
to keep you connected.*



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Pressure Sensing switch capable of sensing up to three (3) separate pressures. Each sensor is externally independently adjustable from 200 to 4000 psi. Viton seals provide wide fluid compatibility range.