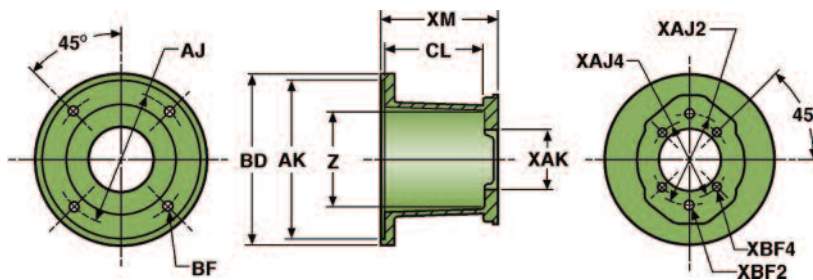


Horizontal Mount Selection Method

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 or visit www.magnaloy.com.

Consult your Magnaloy Distributor for Magnaloy's Product CD ROM which includes the Magnaloy Pump/Motor Mount Selection Program for easy, computerized mount selection.

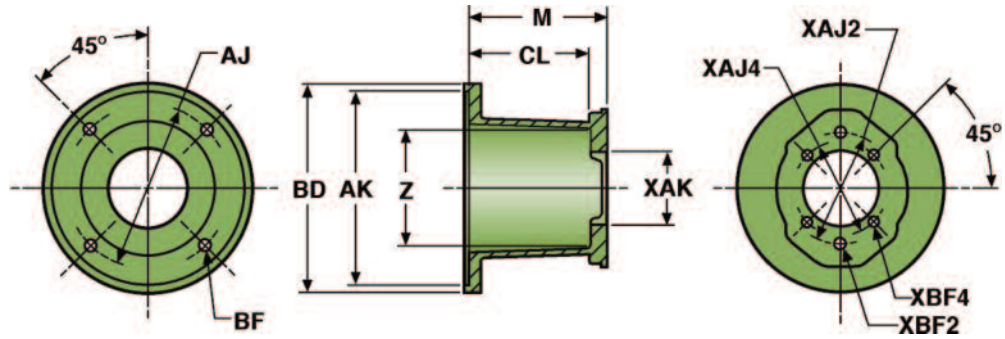
2



**TABLE 7 - NEMA Frames 56C, 143TC/145TC, 182UC/184UC
Horizontal Mounting (or Vertical Mounting - Option A)**

PUMP FLANGE	MOTOR END DATA					PUMP END DATA			3.50 LENGTH			4.25 LENGTH			4.50 LENGTH			
	AJ	BF	BD	AK	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				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 2A/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

PUMP FLANGE	MOTOR END DATA					PUMP END DATA			5.00 LENGTH			5.25 LENGTH			
	AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	XM	MOUNT NO.	CL	XM
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 2A/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
80 S4	4 Bolt	80.01mm			100mm	5/16-18				M05650100M*	3.93	5.00	M05652100M*	4.18	5.25



2

TABLE 8A - NEMA Frames 182TC - 256TC, 213UC - 256UC
Horizontal Mounting (or Vertical Mounting - Option A)

MOTOR END DATA
 AJ BF BD AK
 7.25 17/32 9.00 8.501

RADIAL CLEARANCE "Z" = 5.00

182-A Casting

	AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
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 2A/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 5.0 LENGTH 5.25 LENGTH

MOTOR END DATA
 AJ BF BD AK
 7.25 17/32 9.00 8.501

RADIAL CLEARANCE "Z" = 5.00

182-B Casting

	AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	MOUNT NO.	CL	M	MOUNT NO.	CL	M
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 2A/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

MOTOR END DATA
 AJ BF BD AK
 7.25 17/32 9.00 8.501

RADIAL CLEARANCE "Z" = 5.00

182-B Casting

	AJ	BF	BD	AK	XAK	XAJ2	XBF2	XAJ4	XBF4	MOUNT NO.	CL	M	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				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

MOTOR END DATA

AJ BF BD AK



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

AJ BF BD AK



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	3.251	4.19	3/8-16	4.12	3/8-63	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

AJ BF BD AK



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

AJ BF BD AK



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

