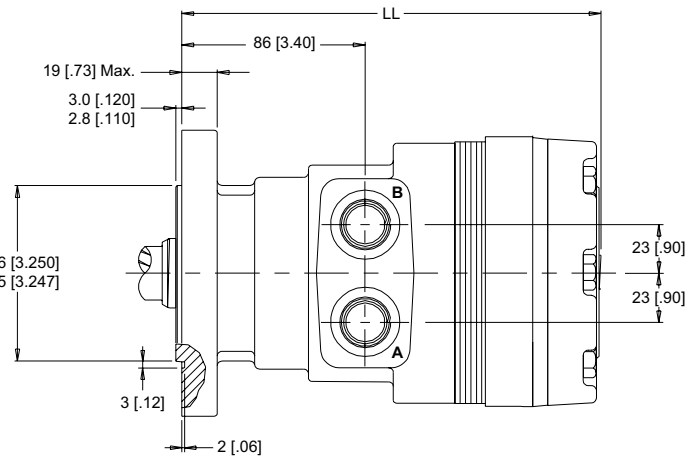
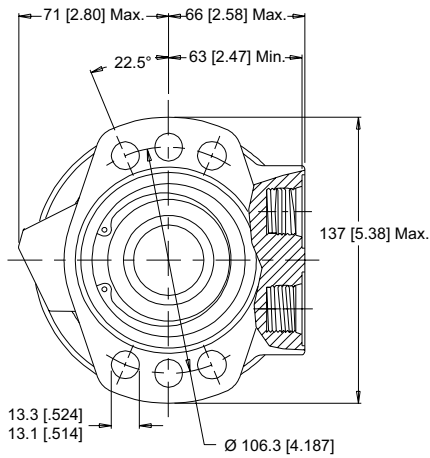


HOUSINGS

► Dimensions shown are without paint. Paint thickness can be up to 0.13 [.005].

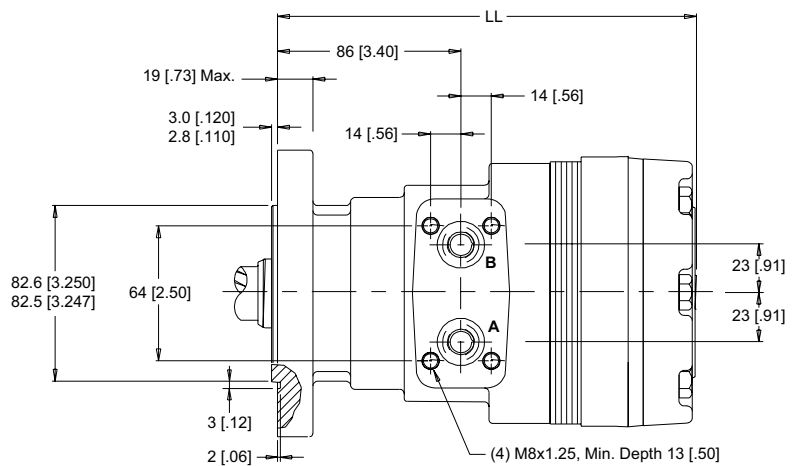
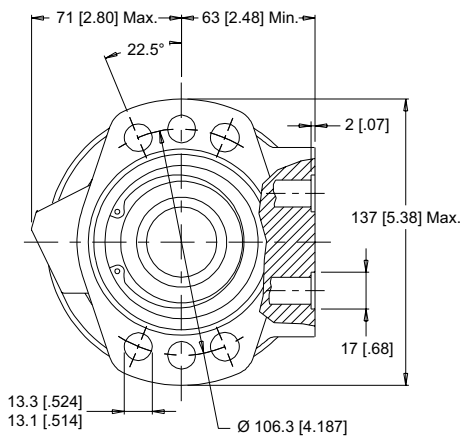
6-HOLE, SAE A MOUNT, ALIGNED PORTS

A51 7/8-14 UNF **A58** G 1/2



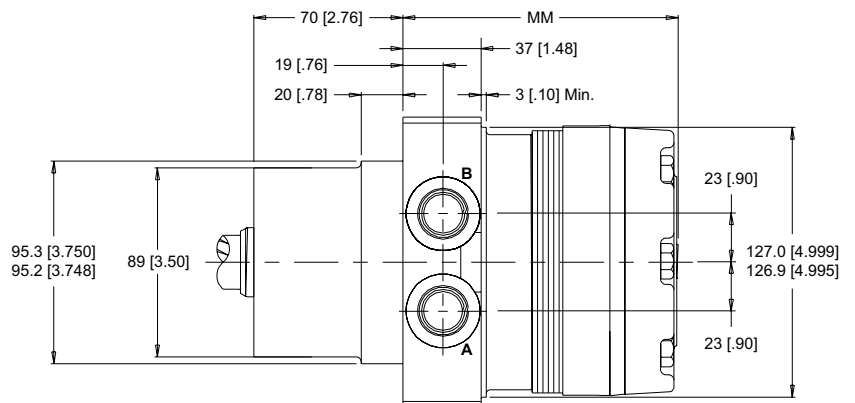
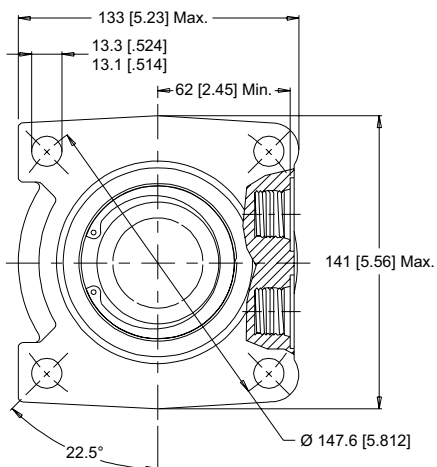
6-HOLE, SAE A MOUNT, ALIGNED MANIFOLD PORTS

A57 1/2" Drilled



4-HOLE, WHEEL MOUNT, ALIGNED PORTS

W31 7/8-14 UNF **W38** G 1/2



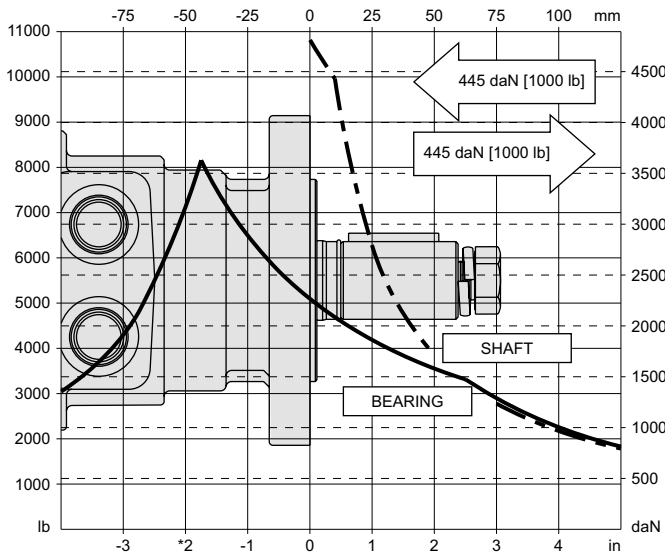
► Dimensions LL & MM are charted on page 80.

TECHNICAL INFORMATION

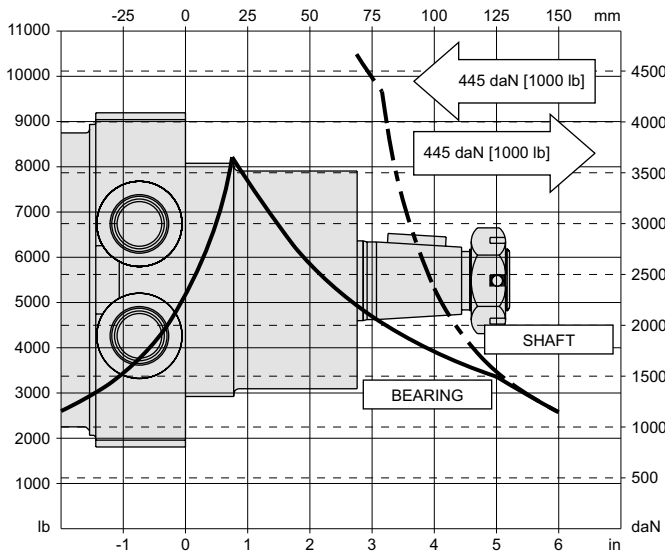
ALLOWABLE SHAFT LOAD / BEARING CURVE

The bearing curve represents allowable bearing loads based on ISO 281 bearing capacity for an L_{10} life of 2,000 hours at 100 rpm. Radial loads for speeds other than 100 rpm may be calculated using the multiplication factor table on page 8.

SAE A MOUNTS



WHEEL MOUNTS



LENGTH & WEIGHT CHART

Dimensions LL & MM are the overall motor lengths from the rear of the motor to the mounting flange surface and are referenced on detailed housing drawings listed on page 79.

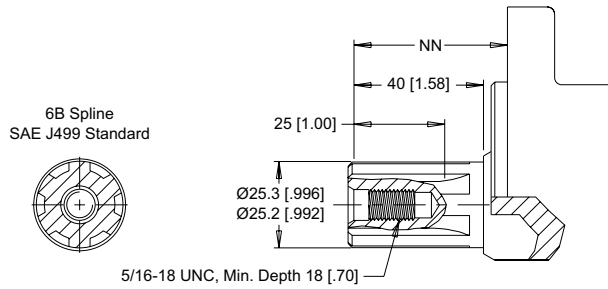
LL	Length	Weight
#	mm [in]	kg [lb]
120	187 [7.37]	13.3 [29.4]
160	187 [7.37]	13.3 [29.4]
200	191 [7.51]	13.7 [30.2]
230	193 [7.61]	13.8 [30.4]
260	196 [7.70]	14.1 [31.0]
300	199 [7.83]	14.4 [31.8]
350	213 [8.38]	15.5 [34.2]
375	205 [8.08]	15.0 [33.0]
470	213 [8.38]	15.5 [34.2]
540	219 [8.62]	16.1 [35.4]
620	227 [8.95]	16.8 [36.9]
750	237 [9.33]	17.5 [38.5]

MM	Length	Weight
#	mm [in]	kg [lb]
120	120 [4.72]	12.9 [28.4]
160	120 [4.72]	12.9 [28.4]
200	123 [4.86]	13.2 [29.2]
230	126 [4.95]	13.3 [29.4]
260	128 [5.05]	13.6 [30.0]
300	132 [5.18]	14.0 [30.8]
350	146 [5.73]	15.1 [33.2]
375	138 [5.43]	14.5 [32.0]
470	146 [5.73]	15.1 [33.2]
540	152 [5.97]	15.6 [34.4]
620	160 [6.30]	16.3 [35.9]
750	170 [6.68]	17.0 [37.5]

► All RE series motor weights can vary ± 0.5 kg [1 lb] depending on model configurations such as housing, shaft, endcover, options etc.

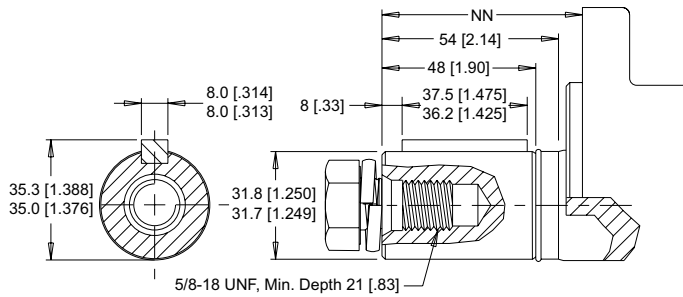
SHAFTS

03 1" 6B Spline



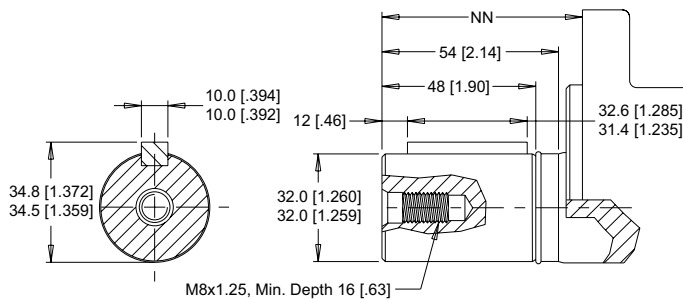
Max. Torque: 678 Nm [6000 lb-in]

07 1-1/4" Straight



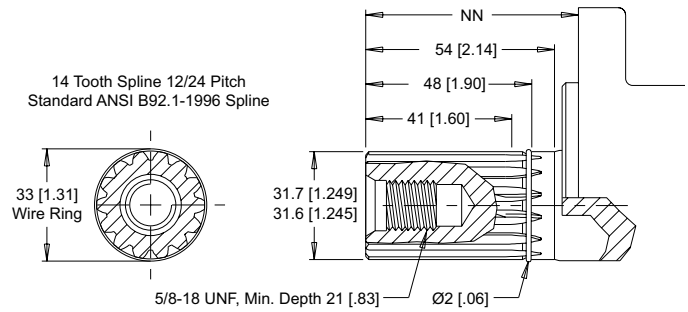
Max. Torque: 1200 Nm [10600 lb-in]

08 32mm Straight



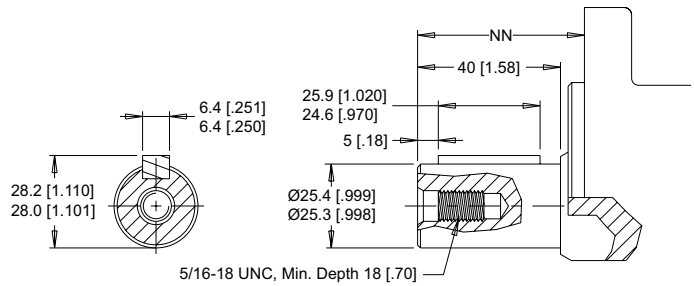
Max. Torque: 1200 Nm [10600 lb-in]

09 14 Tooth Spline



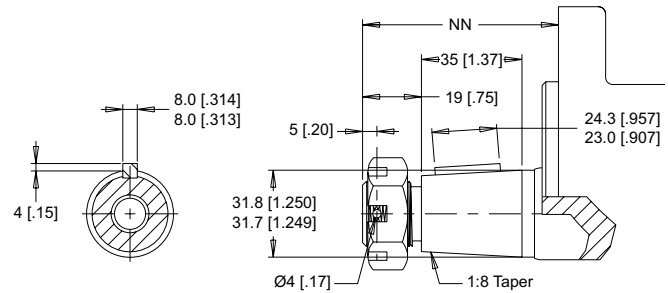
Max. Torque: 1200 Nm [10600 lb-in]

15 1" Straight



Max. Torque: 655 Nm [5800 lb-in]

25 1-1/4" Tapered



► A slotted hex nut is standard on this shaft.

Max. Torque: 1200 Nm [10600 lb-in]

MOUNTING / SHAFT LENGTH CHART

Dimension NN is the overall distance from the motor mounting surface to the end of the shaft and is referenced on detailed shaft drawings above.

► Shaft lengths vary ± 0.8 mm [.030 in.]

NN	SAE A Mounts	Wheel Mounts
#	mm [in]	mm [in]
03	51 [2.02]	119 [4.69]
07	63 [2.47]	131 [5.15]
08	62 [2.47]	130 [5.15]
09	63 [2.47]	131 [5.15]
15	51 [2.02]	119 [4.69]
25	67 [2.63]	133 [5.25]

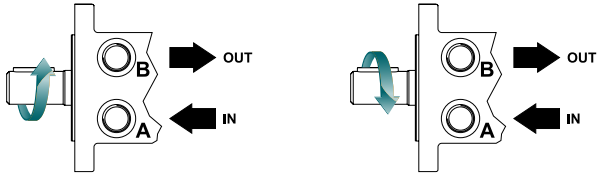
ORDERING INFORMATION

1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

1. CHOOSE SERIES DESIGNATION

520 Standard Rotation

521 Reverse Rotation



► The 520 & 521 series are bi-directional. For applications requiring the motor to rotate in only one direction, shaft seal life may be prolonged by pressurizing the A port of the motor.

2. SELECT A DISPLACEMENT OPTION

120	121 cm ³ /rev [7.4 in ³ /rev]	350	348 cm ³ /rev [21.2 in ³ /rev]
160	162 cm ³ /rev [9.9 in ³ /rev]	375	375 cm ³ /rev [22.8 in ³ /rev]
200	204 cm ³ /rev [12.4 in ³ /rev]	470	465 cm ³ /rev [28.3 in ³ /rev]
230	232 cm ³ /rev [14.2 in ³ /rev]	540	536 cm ³ /rev [32.7 in ³ /rev]
260	261 cm ³ /rev [15.9 in ³ /rev]	620	631 cm ³ /rev [38.5 in ³ /rev]
300	300 cm ³ /rev [18.3 in ³ /rev]	750	748 cm ³ /rev [45.6 in ³ /rev]

3. SELECT A MOUNT & PORT OPTION

A51	6-Hole, SAE A Mount, Aligned Ports, 7/8-14 UNF
A57	6-Hole, SAE A Mount, Aligned Manifold Ports, 1/2" Drilled
A58	6-Hole, SAE A Mount, Aligned Ports, G 1/2
W31	4-Hole, Wheel Mount, Aligned Ports, 7/8/14 UNF
W38	4-Hole, Wheel Mount, Aligned Ports, G 1/2

4. SELECT A SHAFT OPTION

03	1" 6B Spline	09	14 Tooth Spline
07	1-1/4" Straight	15	1" Straight
08	32mm Straight	25	1-1/4" Tapered

5. SELECT A PAINT OPTION

A	Black
B	Black, Unpainted Mounting Surface
Z	No Paint

6. SELECT A VALVE CAVITY / CARTRIDGE OPTION

A	None
----------	------

7. SELECT AN ADD-ON OPTION

A	Standard
B	Lock Nut
C	Solid Hex Nut

8. SELECT A MISCELLANEOUS OPTION

AA	None
AC	Freeturning Rotor
AE	Hydraulic Declutch With Freeturning Rotor