



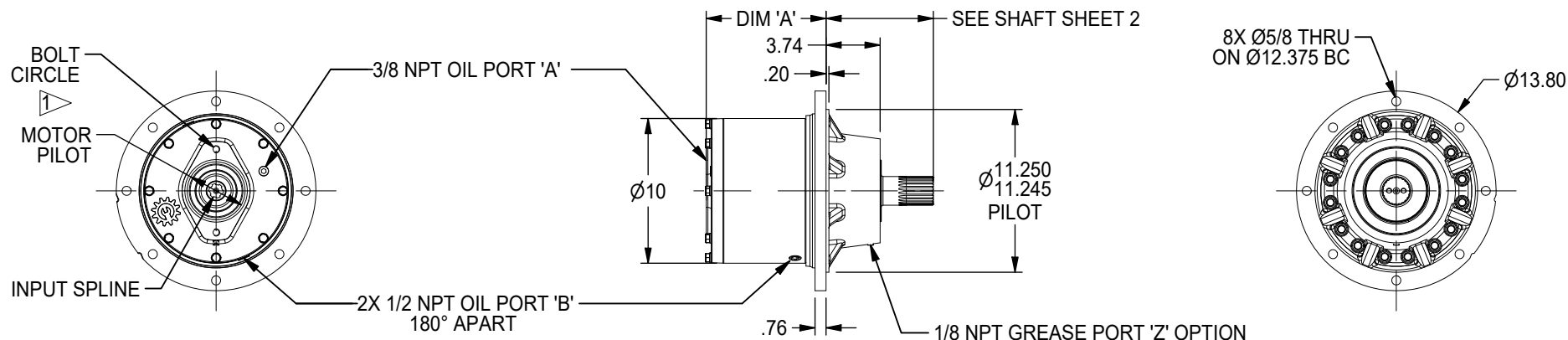
100 GEAR DRIVE - SHAFT OUTPUT

100,000 in-lb (11,298 N-m) Intermittent Rating 50,000 in-lb (5,649 N-m) Continuous Rating
Typical Applications: Industrial, Marine or Mobile Equipment

(913) 782-1238 (Tel)
(913) 782-4206 (Fax)
Sales@Eskridgeinc.com
www.Eskridgeinc.com
FORM: PS100L-AA

SHEET 1 OF 3

100 1&2-Stage General Dimensions Flanged 'A2' Option



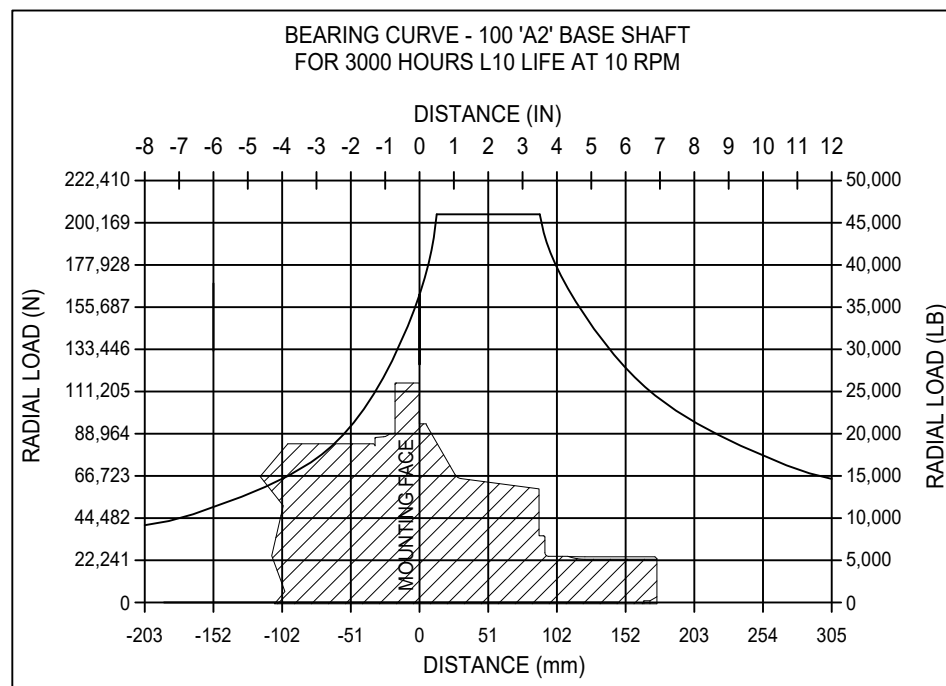
Dimension 'A' Specifications

Input Spline Code	Ratio	Standard Input Mounting			
		SAE 'A'	SAE 'B'	SAE 'C'	SAE 'D'
2,3,5	4, 6, 19, 26, 36	8.34	8.24	8.59	-
4	4, 6, 19, 26	8.59	8.59	8.59	-
4	36	9.84	9.84	9.84	-
ALL	33, 45	9.84	9.84	9.84	-
7, 9	4, 6	-	-	-	8.59

Performance Ratings

Maximum Intermittent Output Torque: 100,000 in-lb (11,298 N-m)
Continuous Output Torque: 50,000 in-lb (5,649 N-m)
Maximum Input Speed: 3,000 RPM
Maximum Operating Ambient Temperature: 110° F (43° C)
Minimum Operating Ambient Temperature: -20° F (-28° C)

Above ratings are general, mechanical ratings, not thermal ratings.
Continuous duty may require additional cooling.
Consult your Eskridge representative to determine ratings for your specific application or configuration.



To adjust for loads and speeds other than those shown on above curve, use this formula:

$$\text{Adjusted Life (hours)} = 3000 \left(\frac{10 \text{ rpm}}{\text{Speed (Adjusted)}} \right) \times \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$



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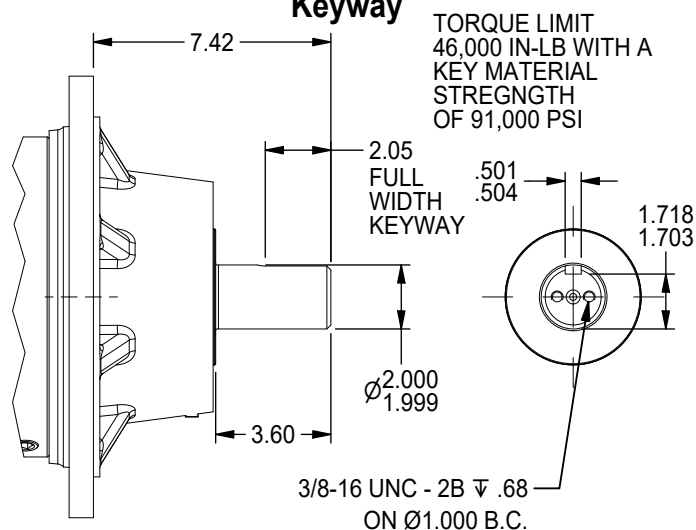
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SHEET 2 OF 3

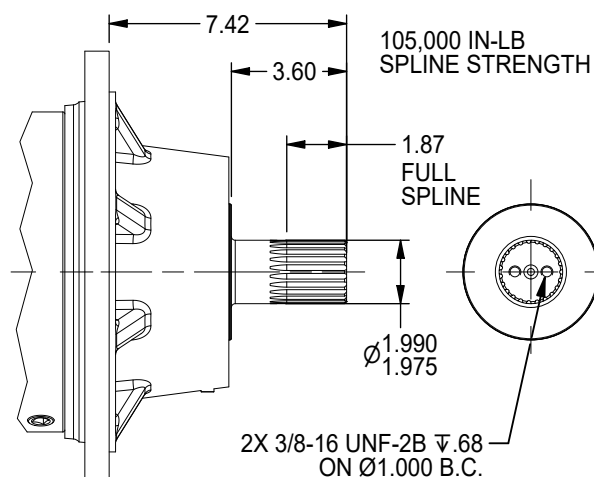
Output Shaft Options *Values are shown as inches.*

D7 Output Shaft Ø2.000" With 1/2"

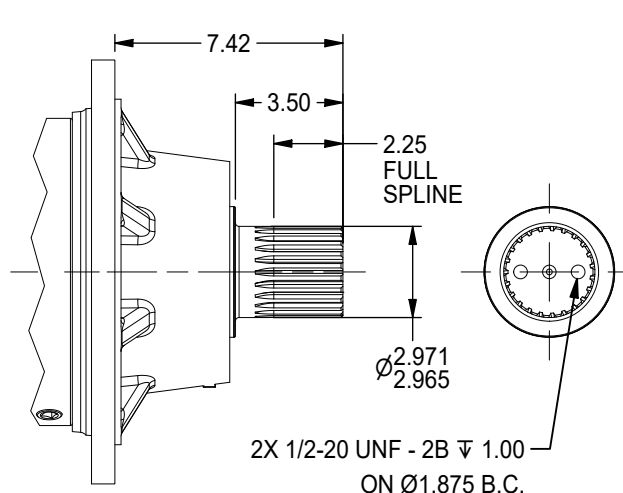
Keyway



D9 Output Shaft 23T 12/24 DP Spline

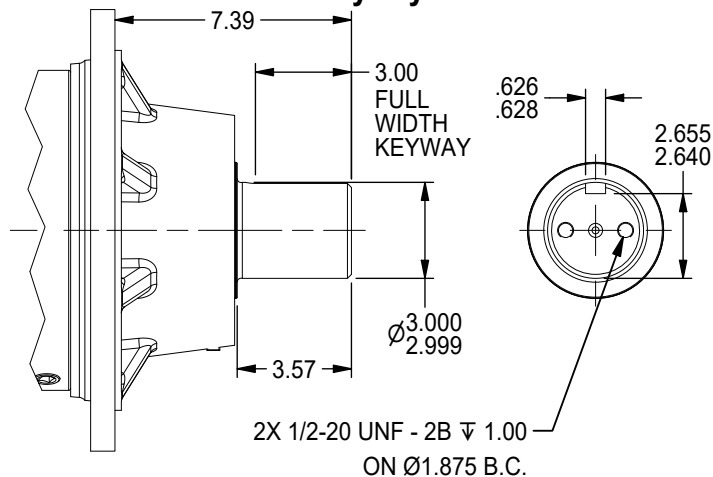


D11 Output Shaft 23T 8/16 DP Spline

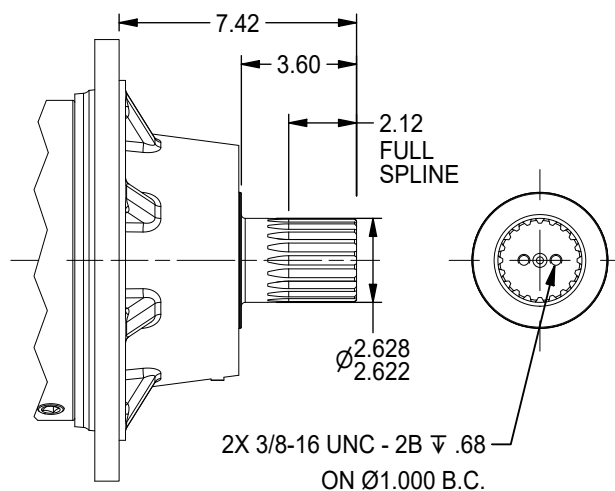


D8 Output Shaft Ø3.000" With 5/8"

Keyway



D10 Output Shaft 20T 8/16 DP Spline





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SHEET 3 OF 3

Ordering Information

Example Part Number: 100LA2D7A2-19-Z

MODEL	SHAFT RETENTION	GEAR DRIVE MOUNTING	OUTPUT SHAFT	INPUT MOUNTING	INPUT SPLINE	RATIO	OPTIONS
100	L	A2	D7	A	2	19	Z
	L - Load-N-Lock Patented Shaft Retention System See Shaft Retention Technical Bulletin for details	A2 - Round C - Custom	D7 - Ø2.00 X 1/2" KEY D8 - Ø3.00 X 5/8" KEY D9 - 23T 12/24DP SPLINE X 1.87" LONG D10 - 20T 8/16DP SPLINE X 2.12" LONG D11 - 23T 8/16DP SPLINE X 2.25" LONG C1 - Custom Shaft	A - SAE "A" (2 & Modified 4 Bolt) B - SAE "B" (2 or 4 Bolt) C - SAE "C" (2 & 4 Bolt) D - SAE "D" (4 Bolt)	2 - 13T 16/32 DP 3 - SAE 1"-6B 4 - 14T 12/24 DP 5 - 15T 16-32 DP 4 7 - 17T 12/24 DP 4 9 - 13T 8/16 DP	Single Stage Ratios 4 - 4.42:1 6 - 6.00:1 Double Stage Ratios: 19 - 19.54:1 26 - 26.52:1 33 - 33.15:1 36 - 36.00:1 45 - 45.00:1 Triple Stage Ratios 86 - 86.35:1 117 - 117.21:1 147 - 146.52:1 159 - 159.12:1 199 - 198.90:1 216 - 216.00:1 270 - 270.00:1	Z - Grease Zerk (Required for pinion up applications) R - Rotated Cover

Approximate Unit Weights (lbs)

Gear Drive Mounting	Stages		
	Single Planetary	Double Planetary	Triple Planetary
A2	174	180	196
C	Consult Eskridge		

Oil Capacities

Position	Quantity		
	Single Planetary	Double Planetary	Triple Planetary
Vertical Shaft Down	5.0 pts Fill to: 1.5" From Port 'A'	5.0 pts Fill to: 1.5" From Port 'A'	6.9 pts Fill to: 1.5" From Port 'A'
Vertical Shaft Up	5.0 pts Fill to: Port 'B'	5.0 pts Fill to: Port 'B'	6.9 pts Fill to: Port 'B'
Horizontal	3.0 pts Fill to: Port 'A'	3.0 pts Fill to: Port 'A'	4.1 pts Fill to: Port 'A'

Units shipped without oil
Use EP or API GL5 Designated Lubricants

Motor Mount Dimensions

PILOT DIMENSIONS BOLT CIRCLE

*SAE 'A' Ø3.251/3.253	4X 1/2-13 UNC-2B ▽5/8 ON Ø4.188 B.C.
*SAE 'B' Ø4.001/4.005	2X 1/2-13 UNC-2B ▽.50 ON Ø5.750 B.C.
SAE 'C' Ø5.001/5.004	4X 1/2-13 UNC-2B ▽1 ON Ø6.375 B.C.
4 SAE 'D' Ø6.000/6.004	2X 5/8-11 UNC-2B ▽1 ON Ø7.125 B.C.
	4X 3/4-10 UNC-2B ▽1 ON Ø9.000 BC

NOTES:

1. SPECIFICATION CALLED OUT IN "MOTOR MOUNT DIMENSIONS" SECTION ABOVE.
2. VALUES ARE SHOWN IN INCHES.
3. OUTPUT SHAFT ROTATION SAME AS INPUT ROTATION.
4. ONLY AVAILABLE WITH SINGLE STAGE GEAR BOXES.