



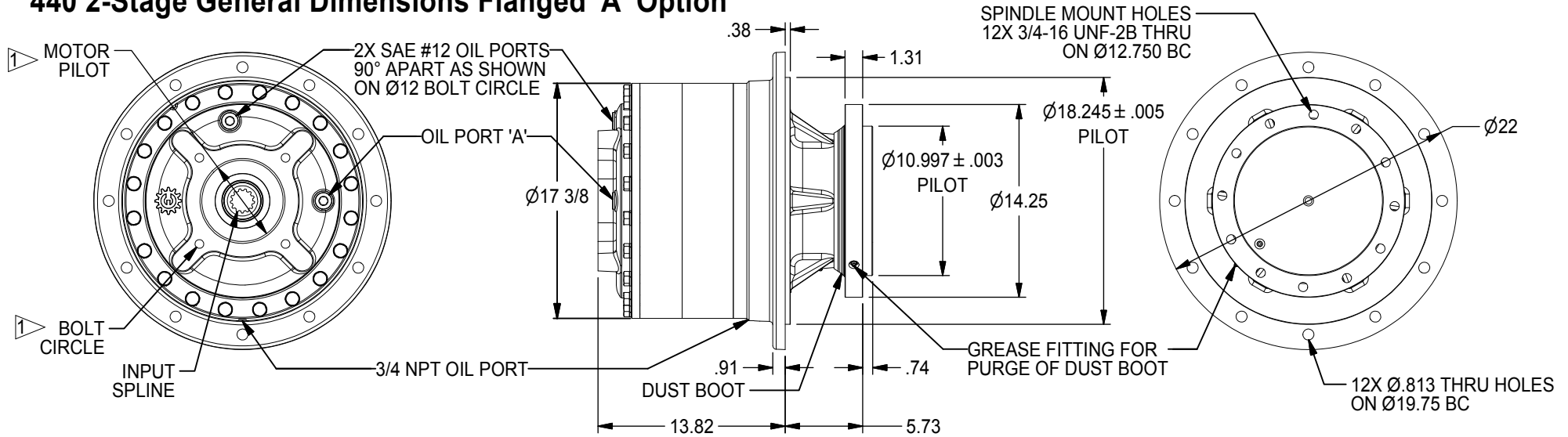
440 GEAR DRIVE - SPINDLE OUTPUT

440,000 in-lb (49,720 N-m) Intermittent Rating 220,000 in-lb (24,800 N-m) Continuous Rating

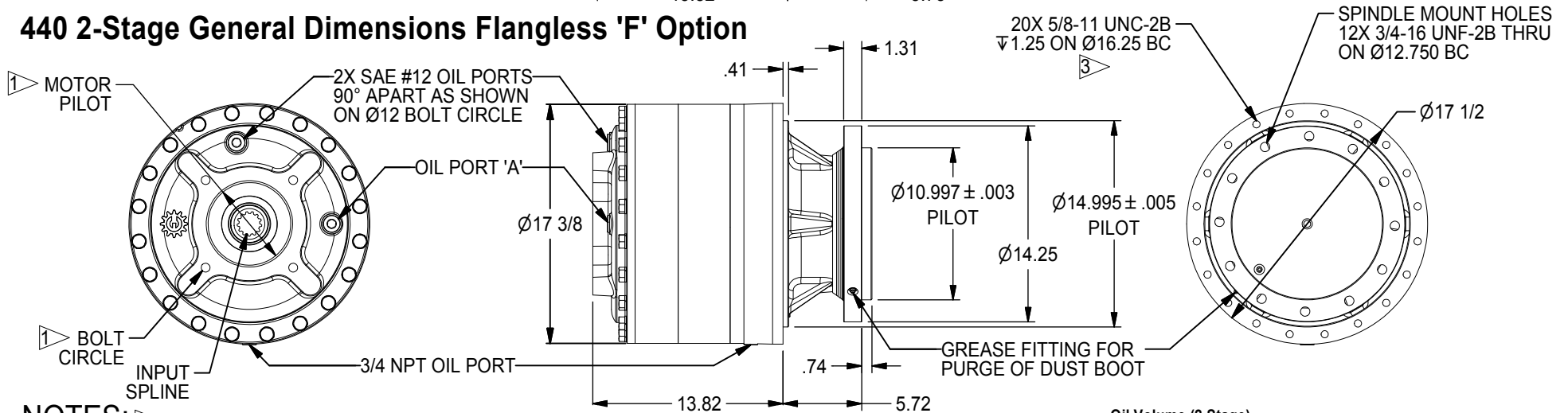
Typical Applications: Industrial, Marine or Mobile Equipment

(913) 782-1238 (Tel)
 (913) 782-4206 (Fax)
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www.Eskridgeinc.com
 FORM: PS440S-AD
 SHEET 1 OF 5

440 2-Stage General Dimensions Flanged 'A' Option



440 2-Stage General Dimensions Flangless 'F' Option



NOTES:

1. SPECIFICATIONS CALLED OUT IN MOTOR MOUNT DIMENSIONS SECTION.
2. VALUES ARE SHOWN IN INCHES.
3. 'T' OPTION; THROUGH BOLT MOUNTING, HOLES ARE 18X Ø.656 HOLE ON Ø16.25 B.C.
4. OUTPUT SHAFT ROTATION SAME AS INPUT ROTATION.

Oil Volume (2 Stage)

LUBRICATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
QUANTITY	9.00 QT	11.00 QT	9.00 QT
OIL FILL LEVEL (GRADE GL-5 EP 80/90)	FILL TO: PORT 'A'	FILL TO: 1" FROM COVER PORT 'A'	FILL TO: PORT 'B'

All Units Shipped Without Oil



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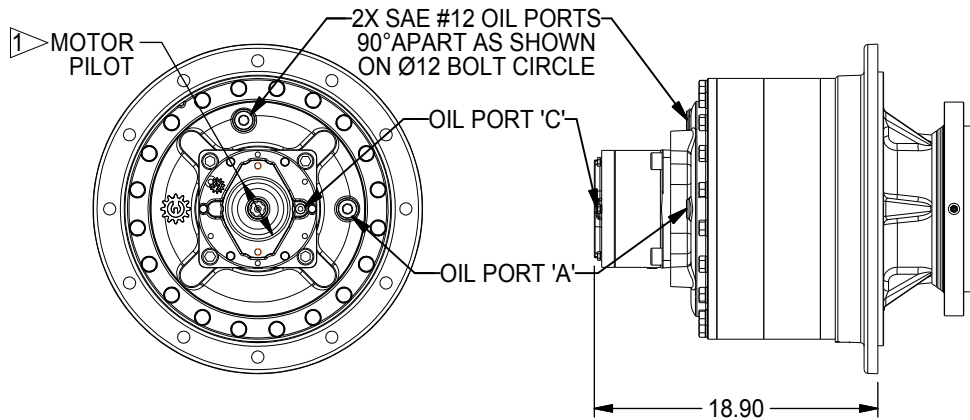
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3-Stage Option M-28 First Stage (Base Dimensions Identical to 2-Stage Option)



Available Ratios:

71	(70.65:1)
77	(76.87:1)
*95	(95.19:1)
105	(105.05:1)
*114	(114.30:1)
136	(135.81:1)
*142	(141.54:1)
148	(147.76:1)
176	(176.07:1)
183	(182.99:1)
192	(191.57:1)
237	(237.23:1)

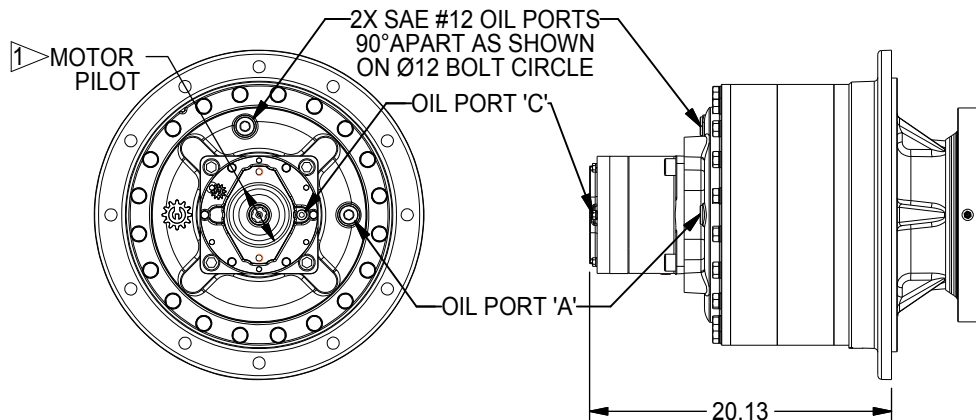
Input Mounting:

- SAE "A" (2 & Modified 4 Bolt)
- SAE "B" (2 & 4 Bolt)
- SAE "C" (2 & 4 Bolt)

Input Spline:

- 2 (13T 16/32 DP Spline)
- 3 (1"-6B SAE Parallel Sided Spline)
- 4 (14T 12/24 DP Spline)
- 5 (15T 16/32 DP Spline)

*3-Stage Option with Code 4 Input for 95:1; 114:1 & 142:1 Ratios



2 Oil Volume (3 Stage With M28) Upper Stage

LUBRICATION	ORIENTATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
	QUANTITY		1.0 Pt/1.25 (Code 4)	1.8 Pt/1.25 (Code 4)
OIL FILL LEVEL (GRADE GL-5 EP 80/90)		FILL TO: PORT 'C'	FILL TO: 1.5" FROM COVER PORT 'E'	FILL TO: PORT 'D'

2 Oil Volume Lower Stage

LUBRICATION	ORIENTATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
	QUANTITY		9.00 Qt	11.00 Qt
OIL FILL LEVEL (GRADE GL-5 EP 80/90)		FILL TO: PORT 'A'	FILL TO: 1.5" FROM COVER PORT 'A'	FILL TO: PORT 'B'

All Units Shipped Without Oil

NOTES:

1. SPECIFICATIONS CALLED OUT IN MOTOR MOUNT DIMENSIONS SECTION.
2. UPPER AND LOWER STAGES SEPARATED WITH A SEAL. BOTH STAGES NEED TO BE FILLED WITH OIL.



440 GEAR DRIVE - SPINDLE OUTPUT

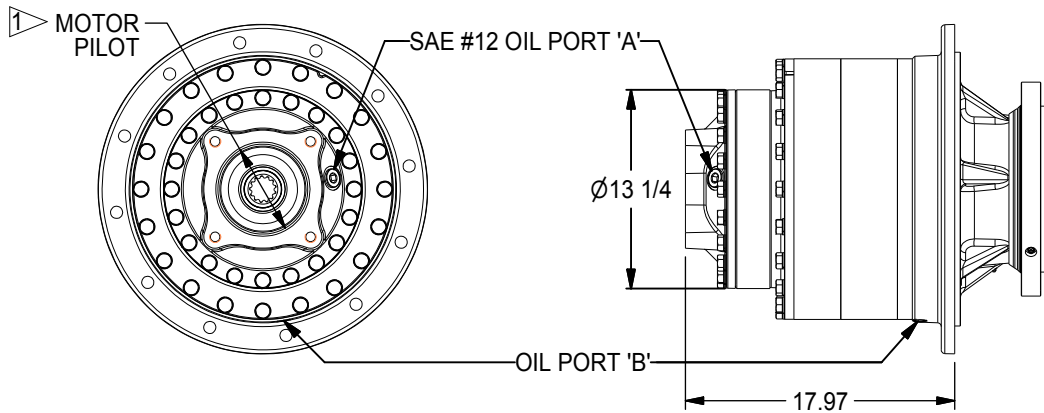
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3-Stage Option 254 First Stage (Base dimensions identical to 2-Stage Option)



Available Ratios:

81	(81.25:1)
105	(105.67:1)
119	(118.69:1)
121	(120.81:1)
156	(156.18:1)
157	(157.12:1)
161	(161.48:1)
176	(176.49:1)
202	(202.48:1)
203	(203.13:1)
228	(228.16:1)
240	(240.12:1)
263	(263.34:1)
296	(295.80:1)
310	(310.43:1)
402	(402.45:1)

Input Mounting:

SAE "A" (2 & Modified 4 Bolt)
 SAE "B" (2 & 4 Bolt)
 SAE "C" (2 & 4 Bolt)
 SAE "D" (4 Bolt)

Input Spline:

4 (14T 12/24 DP Spline)
 9 (13T 8/16 DP Spline)

Oil Volume (3 Stage With 254)

LUBRICATION	ORIENTATION	HORIZONTAL:	VERTICAL: PINION DOWN	VERTICAL: PINION UP
QUANTITY		10.00 Qt	17.00 QT	17 Qt
OIL FILL LEVEL (GRADE GL-5 EP 80/90)		FILL TO: PORT 'A'	FILL TO: 1.5" FROM COVER PORT 'A'	FILL TO: PORT 'B'

All Units Shipped Without Oil

NOTES:

1. SPECIFICATIONS CALLED OUT IN MOTOR MOUNT DIMENSIONS SECTION.



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Performance Ratings

Maximum Intermittent Output Torque: 440,000 in-lb (49,720 N-m)
 Continuous Output Torque: 220,000 in-lb (24,800 N-m)
 Maximum Input Speed: 3,000 RPM
 Maximum Operating Ambient Temperature: 110° F (43° C)
 Minimum Operating Ambient Temperature: -20° F (-28° C)

Consult your Eskridge representative to determine ratings for your specific application or configuration

Oil Capacities

Mounting Position	Single Stage	Two Stage	Three Stage
Vertical Shaft Up	CONSULT FACTORY	14.00 QT 13.25 LITERS	CONSULT FACTORY
Vertical Shaft Down	CONSULT FACTORY	11.00 QT 10.41 LITERS	CONSULT FACTORY
Horizontal Shaft	CONSULT FACTORY	8.00 QT 7.57 LITERS	CONSULT FACTORY

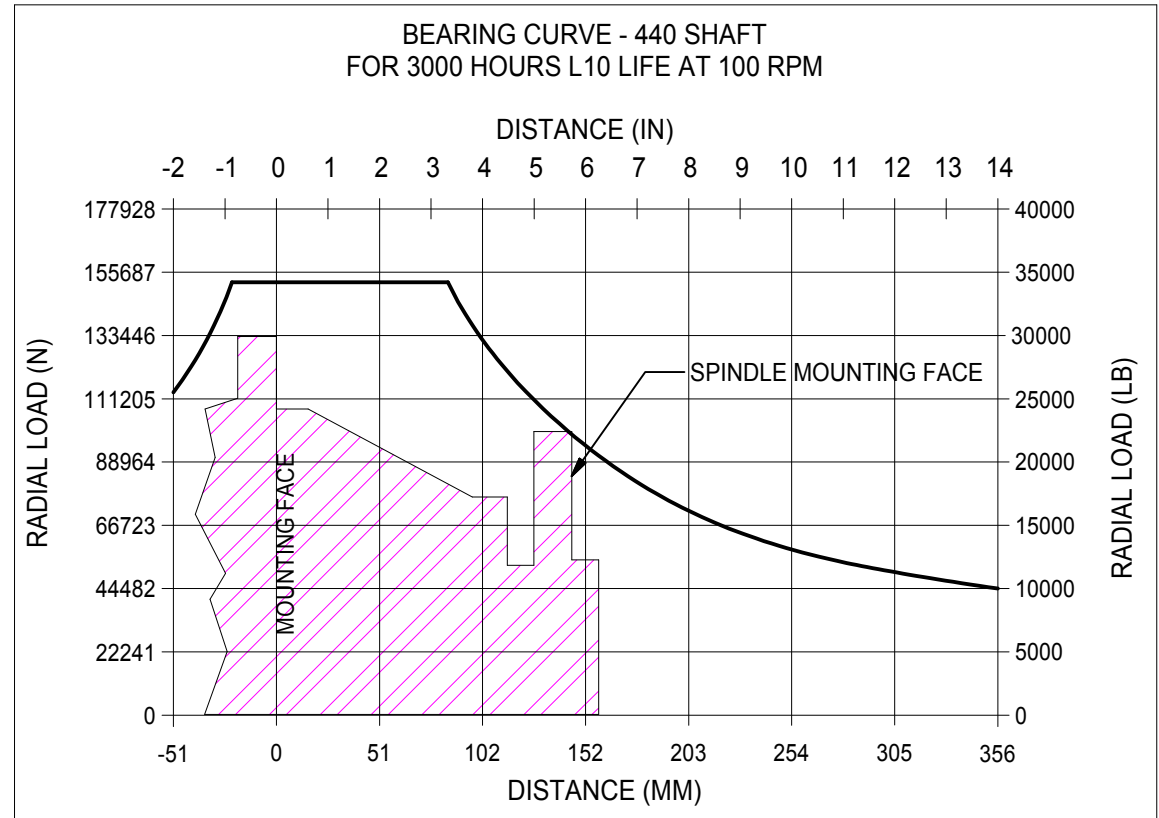
ALL UNITS SHIPPED WITHOUT OIL
 Use EP or API GL-5 Designated Lubricants

Approximate Unit Weight

Single Stage: 420 lb (190 kg)
 Two Stage: 740 lb (335 kg)
 Three Stage: 890 lb (403 kg)

Motor Mount Dimensions

PILOT DIMENSIONS	BOLT CIRCLE
SAE 'C' Ø5.001/5.004	4X 1/2-13 UNC-2B ∇1 ON Ø6.375 B.C. 2X 5/8-11 UNC-2B ∇1 ON Ø7.125 B.C.
SAE 'D' Ø6.000/6.004	4X 3/4-10 UNC-2B ∇1 ON Ø9.000 B.C.
SAE 'E' Ø6.501/6.505	4X 3/4-10 UNC-2B ∇1 ON Ø12.500 B.C.



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

$$\text{Adjusted Life (hours)} = 3000 \left(\frac{100 \text{ rpm}}{\text{Speed (Adjusted)}} \right) \times \left(\frac{\text{Load (Curve)}}{\text{Load (Adjusted)}} \right)^{10/3}$$



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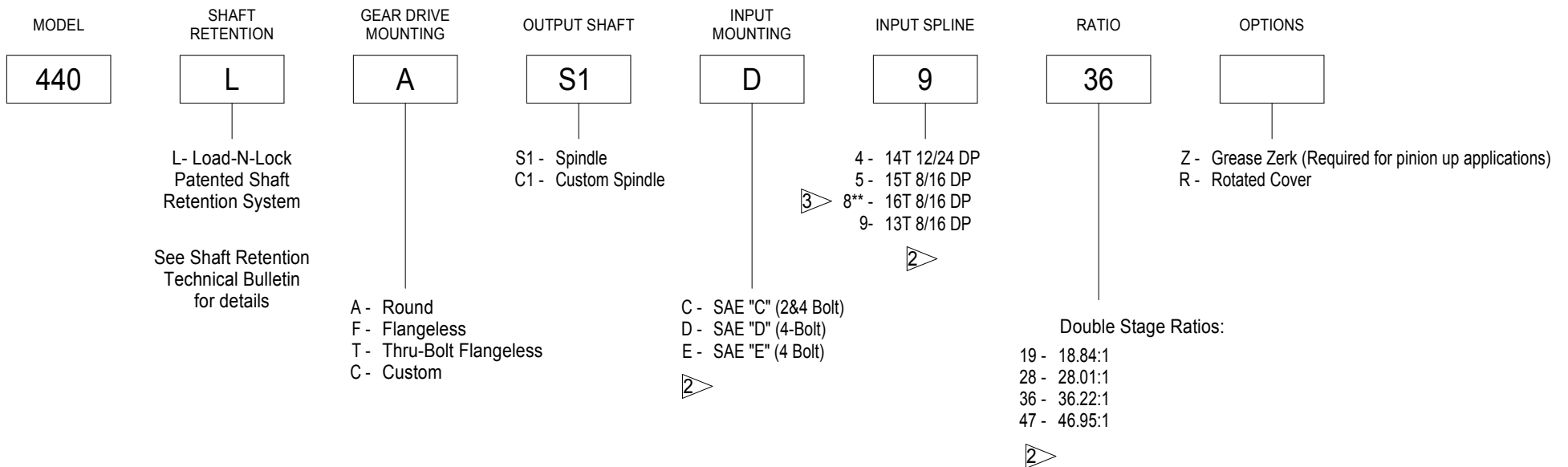
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SHEET 5 OF 5

Ordering Information

Example Part Number: 440LAS1D9-36



NOTES:

1. TWO STAGE RATIO GEARBOX SHOWN IN EXAMPLE.
2. THREE STAGE INPUT MOUNTING, INPUT SPLINE AND RATIOS ARE SHOWN ON PAGES 2 & 3.
3. 16T ONLY AVAILABLE ON 19:1 & 25:1 TWO STAGE RATIOS.