



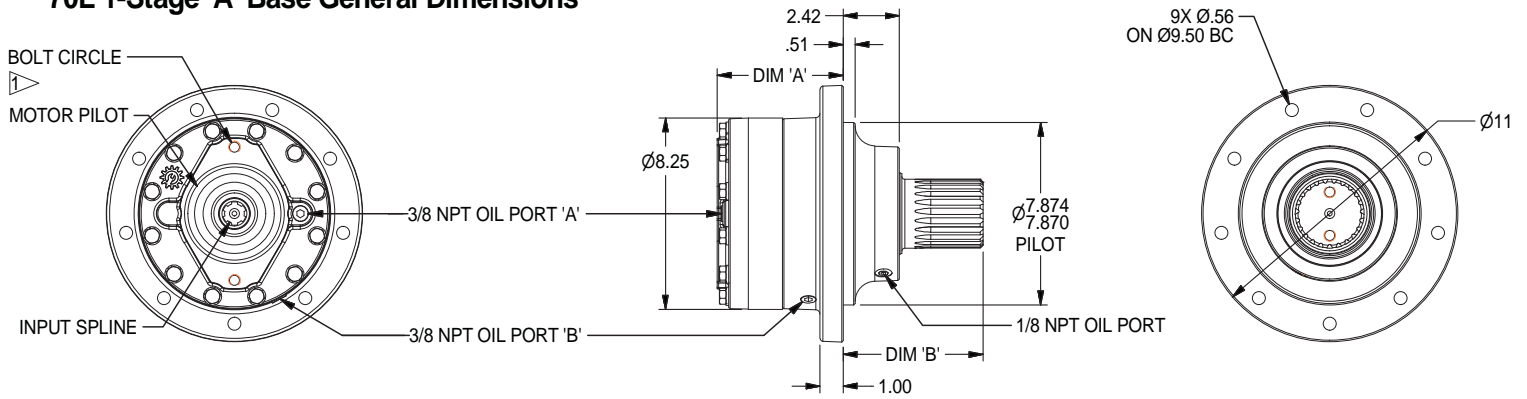
# 70L GEAR DRIVE - SHAFT OUTPUT

70,000 in-lb (7,909 N-m) Intermittent Rating 35,000 in-lb (3,954 N-m) Continuous Rating  
Typical Applications: Industrial, Marine or Mobile Equipment

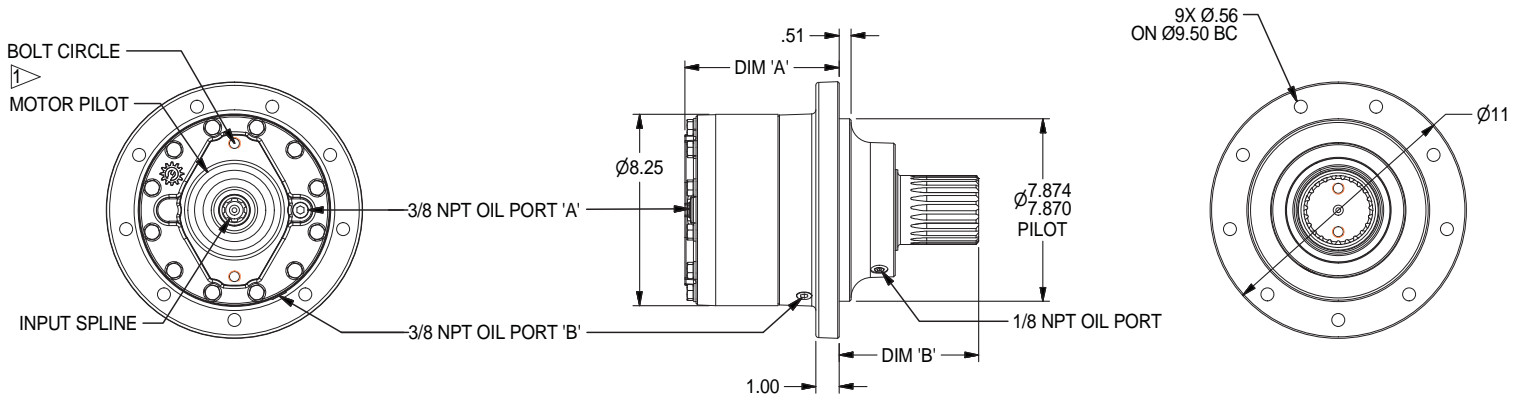
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FORM: PS70L A

SHEET 1 OF 8

## 70L 1-Stage 'A' Base General Dimensions



## 70L 2-Stage 'A' Base General Dimensions





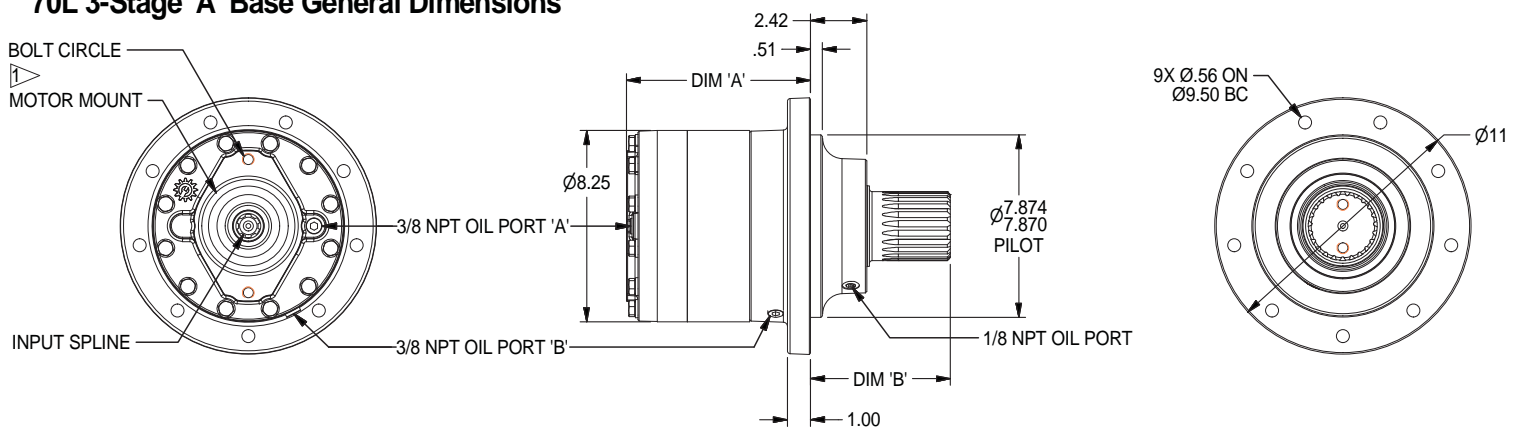
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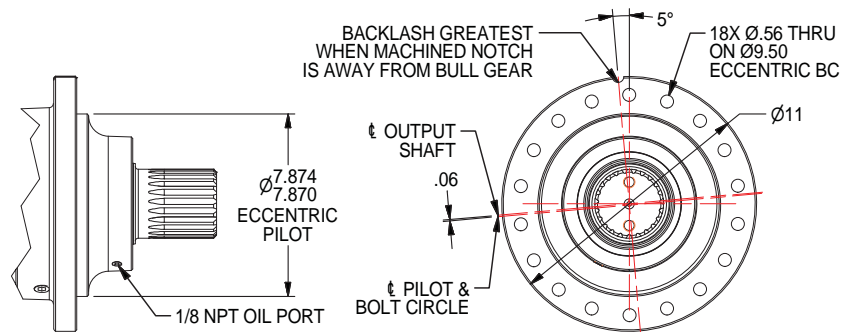
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## 70L 3-Stage 'A' Base General Dimensions



## 70L 'AQ' Eccentric Base General Dimensions

All other dimensions are identical to Single, 2-Stage & 3-Stage "A" Base





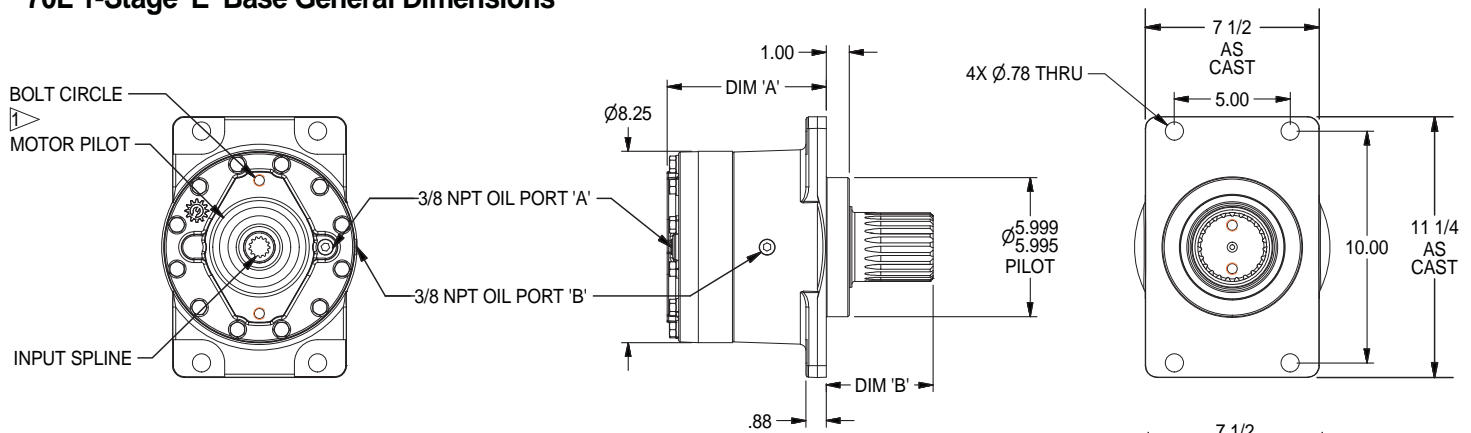
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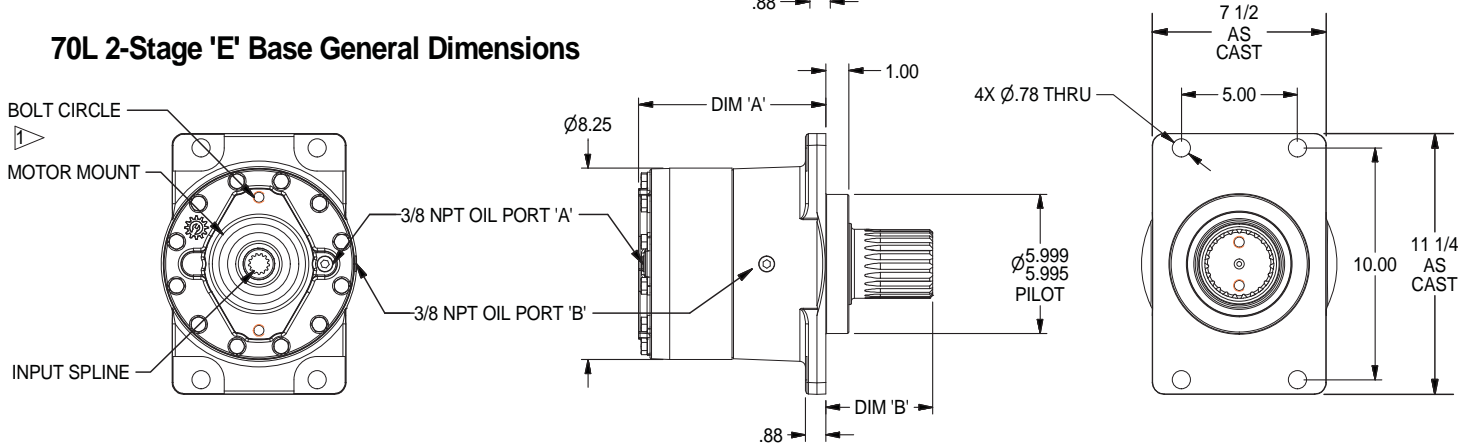
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## 70L 1-Stage 'E' Base General Dimensions



## 70L 2-Stage 'E' Base General Dimensions





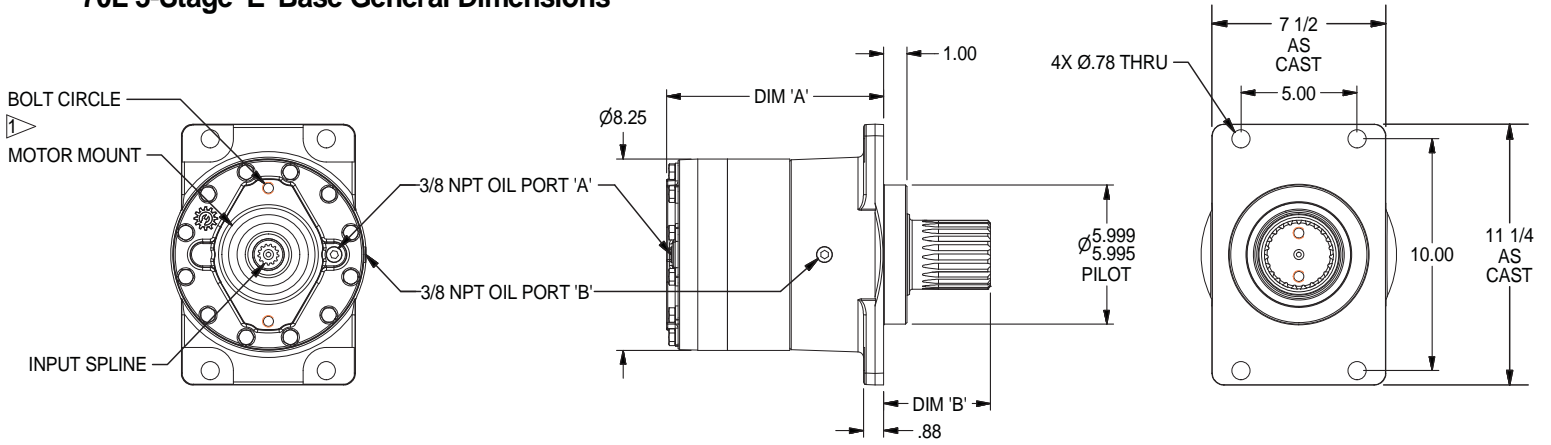
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## 70L 3-Stage 'E' Base General Dimensions





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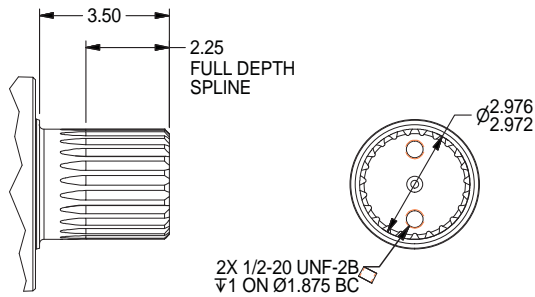
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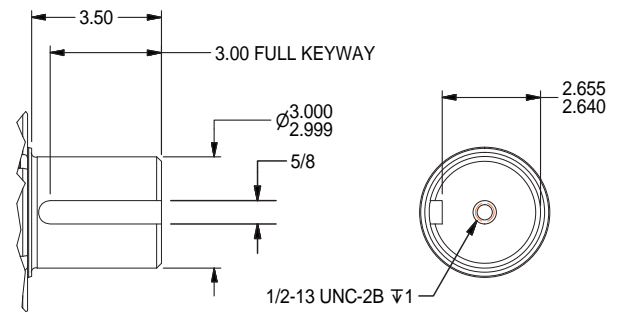
SHEET 5 OF 8

## Output Shaft Options Values are shown as inches.

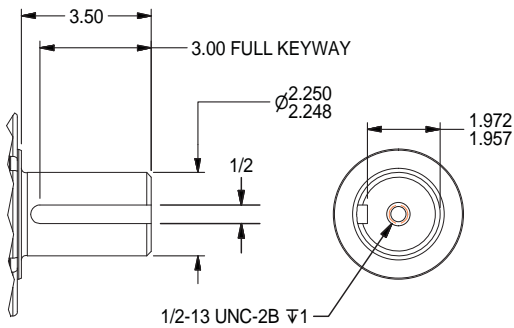
**D1 Output Shaft**  
 23T 8/16 DP Spline



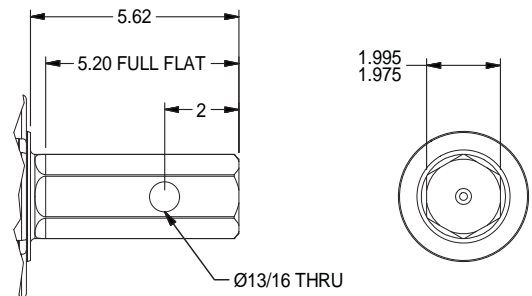
**D2 Output Shaft**  
 Ø3.00 X 5/8" Keyway



**D3 Output Shaft**  
 Ø2 1/4 x 1/2 Keyway



**H2 Output Shaft**  
 2" Hex





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## Performance Ratings

Maximum Intermittent Output Torque:	70,000 in-lb (7,909 N-m)
Continuous Output Torque:	35,000 in-lb (3,954 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

## Oil Capacities

Mounting Position	Single Stage	Two Stage	Three Stage
Vertical Shaft Up	1.75 PT Fill to Port 'B'	2.75 PT Fill to Port 'B'	3.25 PT FILL to Port 'B'
Vertical Shaft Down	1.75 PT Fill to 1.5" from Port 'A'	2.75 PT Fill to 1.5" from Port 'A'	3.25 PT Fill to 1.5" from Port 'A'
Horizontal Shaft	1.25 PT Fill to Port 'A'	1.50 PT Fill to Port 'A'	1.75 PT Fill to Port 'A'

ALL UNITS SHIPPED WITHOUT OIL.  
 Use EP or API GL-5 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. 2X 5/8-11 UNC-2B ∇1 ON Ø7.125 B.C.

## Approximate Unit Weights (lbs)

Gear Drive Mounting	Stages		
	Single	Double	Triple
A & AQ	90	105	120
E	90	105	115

## Dimension 'A' Specifications

Gear Drive Mounting	Input Mounting, Option A SAE A - 2 & Modified 4 Bolt			Input Mounting, Option B SAE B - 2 Bolt			Input Mounting, Option C SAE C - 4 Bolt			Input Mounting, Option K SAE C - 2 Bolt		
	Single Planetary	Double Planetary	Triple Planetary	Single Planetary	Double Planetary	Triple Planetary	Single Planetary	Double Planetary	Triple Planetary	Single Planetary	Double Planetary	Triple Planetary
A	5.44	6.66	7.95	5.44	6.66	7.95	5.79	7.01	8.30	5.79	7.01	8.30
AQ	5.44	6.66	7.95	5.44	6.66	7.95	5.79	7.01	8.30	5.79	7.01	8.30
E	6.31	7.53	8.82	6.31	7.53	8.82	6.66	7.88	9.17	6.66	7.88	9.17

## Dimension 'B' Specifications

Gear Drive Mounting	SHAFT OPTIONS			
	D1	D2	D3	H2
A	6.03	6.03	6.03	8.15
AQ	6.03	6.03	6.03	8.15
E	4.61	4.61	4.61	6.73

## NOTES: ▷

- SPECIFICATION CALLED OUT IN MOTOR MOUNT DIMENSIONS SECTION.
- VALUES ARE SHOWN IN INCHES.
- OUTPUT SHAFT ROTATION SAME AS INPUT ROTATION.

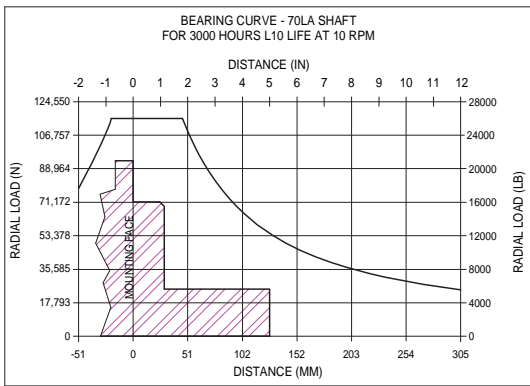


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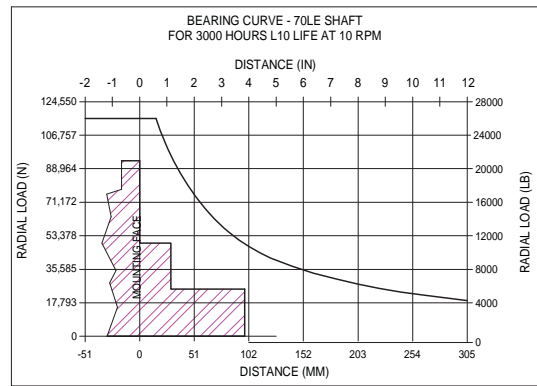
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To adjust for loads and speeds other than those shown on above curve, use this formula:

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



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## Ordering Information

Example Part Number: 70LAD1A2-14-Z

