

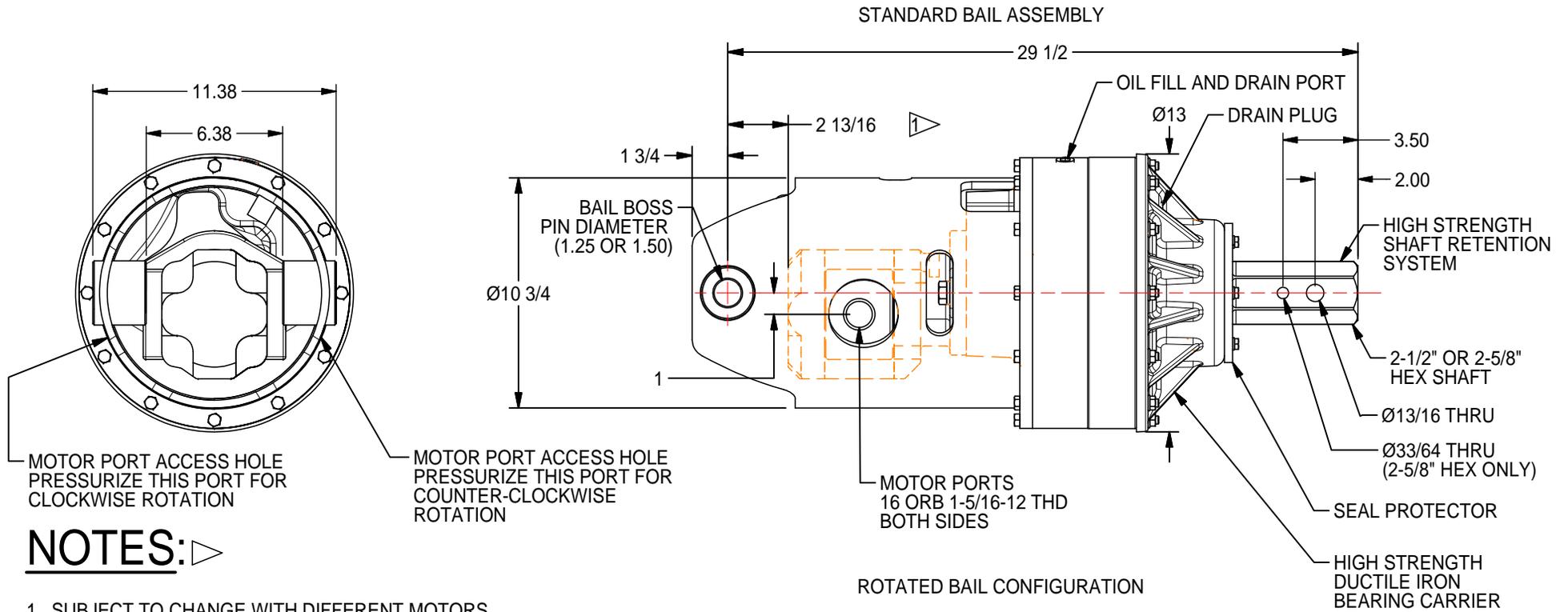


# S77 SERIES HEAVY DUTY DRIVE HEAD

6,500 ft-lb (8,812 N-m) to 12,000 ft-lb (16,270 N-m) Maximum  
 Typical Applications: Utility and Construction Industries

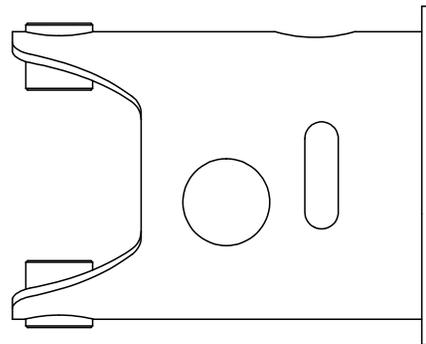
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 FORM: PSS77-AA

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## NOTES: ▷

1. SUBJECT TO CHANGE WITH DIFFERENT MOTORS.
2. VALUES ARE SHOWN IN INCHES.





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## Performance Ratings

Maximum Intermittent Output Torque: 12,000 ft-lb (16,270 N-m)  
 Shaft Pressure Load: 19,000 lb (8,600 Kg)  
 Shaft Pullout Load: 21,000 lb (9,500 Kg)  
 \*Shaft Side loading Not Recommended  
 Maximum Input Speed: 3000 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

77BA	77BC	77BD
6.5 PINTS	6.5 PINTS	6.5 PINTS
3.1 LITERS	3.1 LITERS	3.1 LITERS

ALL UNITS WITH MOTORS SHIPPED WITH OIL  
 Use EP or API GL-5 Designated Lubricants

Ordering Information  
 Example Part Number: 77BA-64F59R

## Motor Mount Dimensions

PILOT DIMENSIONS	BOLT CIRCLE
SAE 'C' Ø5.001/5.004	2X 5/8-11 UNC-2B ∇1 ON Ø7.125 B.C.

## Motor Specifications:

Single Speed Hydraulic Gear Motors  
 Maximum System Pressure: 2500 psi (172 bar)  
 Motors are Internally Drained and Generally Don't Require a Case Drain. A 23 Motor is Limited to 100 psi Back Pressure and a 59 is Limited to 500 psi. If the Back Pressure Exceeds these Ratings a Case Drain is Required.

## Approximate Unit Weight

With Motor: 277 lb (125 kg)

MODEL	OUTPUT SHAFT	BAIL BOSS	MOTOR SUPPLIER	MOTOR PART NUMBER	OPTIONS
<b>S77BA</b>	<b>6</b>	<b>4</b>	<b>F</b>	<b>59</b>	<b>R</b>
S77BA- 70:1 GEAR RATIO 23/59 MOTOR 12,000 FT-LB TORQUE 23 RPM	5- 2 1/2" HEX 6- 2 5/8" HEX	4- Ø1 1/4 5- Ø1 1/2	F- FACTORY U- USER	23- WINCH MOTOR* 6.38 CID 59- STANDARD MOTOR 6.38 CID	R- ROTATED BAIL 90° FOR BACKHOE AND EXCAVATOR USE
S77BC- 46:1 GEAR RATIO 23/59 MOTOR 8,000 FT-LB TORQUE 35 RPM					
S77BD- 38:1 GEAR RATIO 23-59 MOTOR 6,500 FT-LB TORQUE 43 RPM					

\*A Winch Gear Motor can Operate Smoothly Down to 100 motor rpm. Typical Gear Motors Can Only be Operated Down to 350 motor rpm. Ideal for Machines with Flow Below 20GPM or for Anchor Installation.



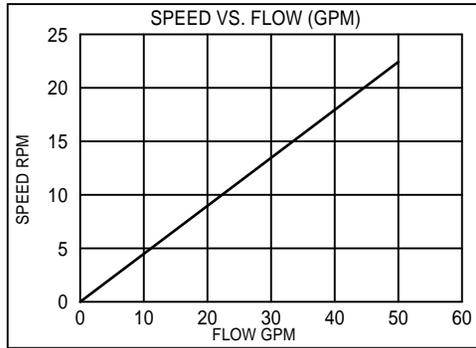
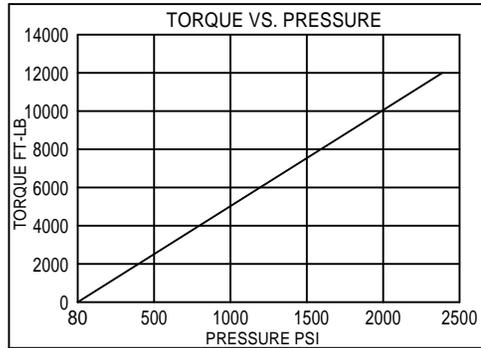
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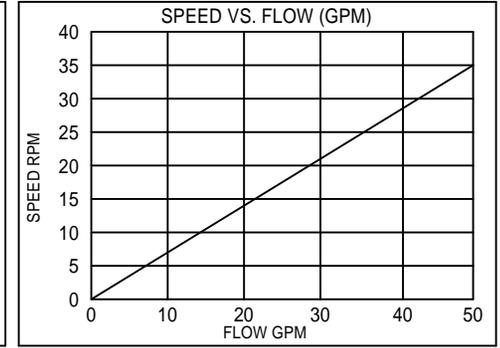
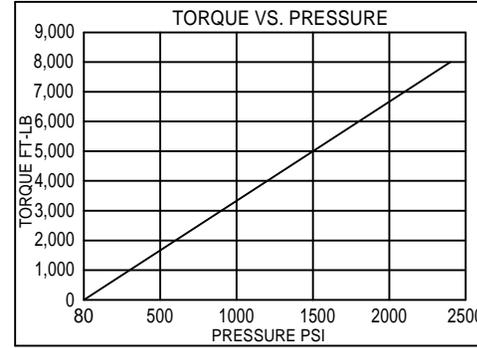
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## Torque and Speed Charts:

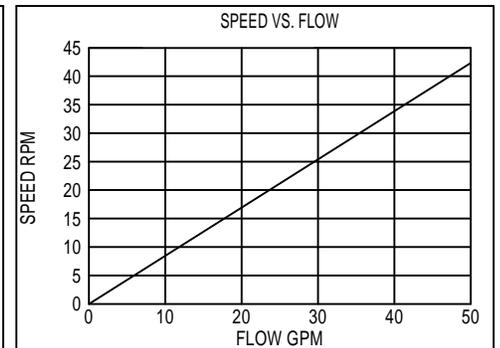
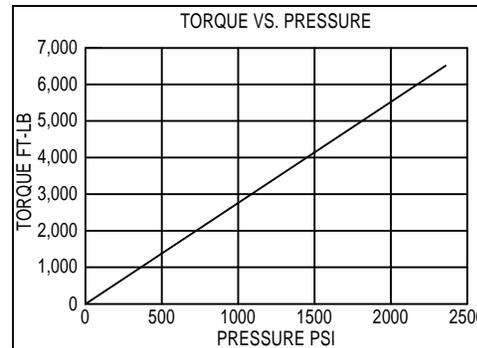
77BA With 23 OR 59 Motor



77BC With 23 or 59 Motor



76BD With 23 or 59 Motor



- \* Starting torques are approximately 25% less than running torque.
- \* Torque and speed charts are based on analytical calculations that use average gearbox and motor efficiencies.
- \* System back pressure will reduce running torque proportionally.
- \* Consult Eskridge Representative for Torque and Speed Charts for your specific application.

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