

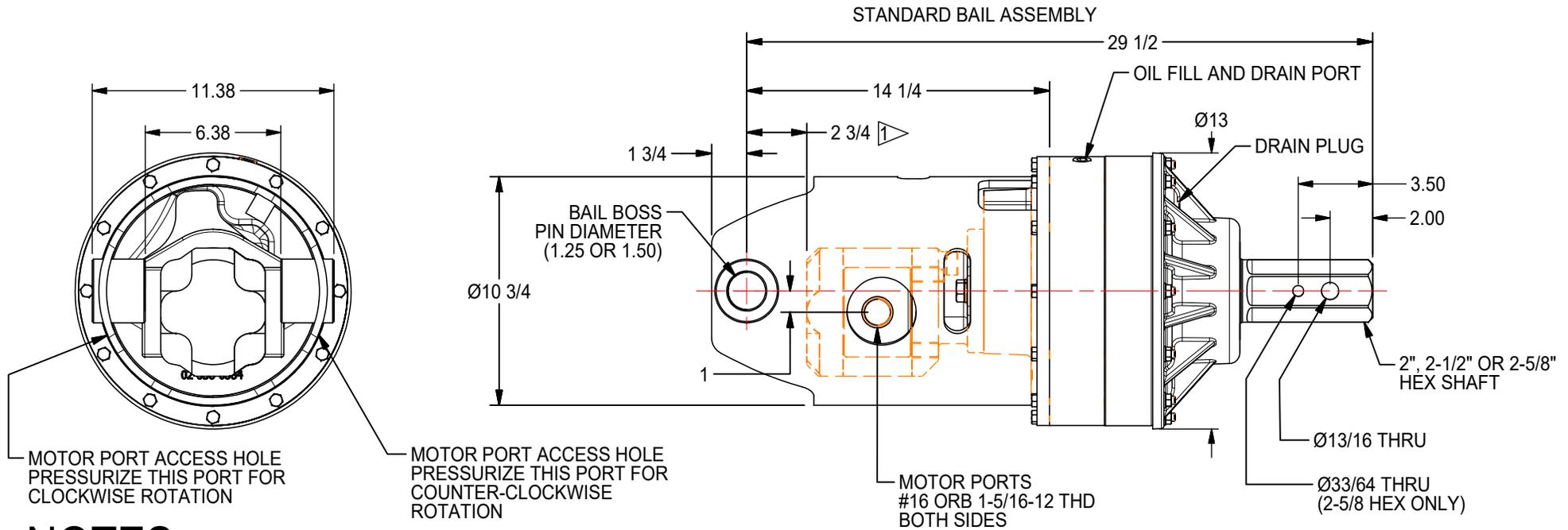


# 77 SERIES DRIVE HEAD

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

(913) 782-1238 (Tel)  
(913) 782-4206 (Fax)  
Sales@Eskridgeinc.com  
www.Eskridgeinc.com  
FORM: PS77-DD

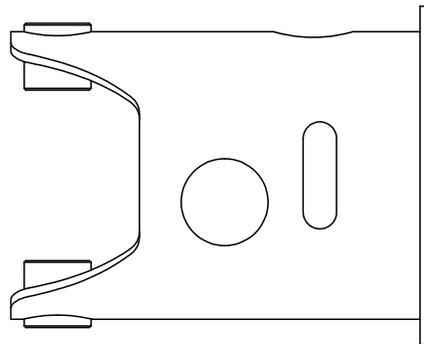
Page 1 of 3



## NOTES: ▷

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

ROTATED BAIL CONFIGURATION





# 77 SERIES 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

(913) 782-1238 (Tel)  
 (913) 782-4206 (Fax)  
[Sales@Eskridgeinc.com](mailto:Sales@Eskridgeinc.com)  
[www.Eskridgeinc.com](http://www.Eskridgeinc.com)  
 FORM: PS77-DD

Page 2 of 3

## 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: 250 lb (113 kg)

| MODEL                                                                 | OUTPUT SHAFT                                          | BAIL BOSS              | MOTOR SUPPLIER        | MOTOR PART NUMBER                                              | OPTIONS                                           |
|-----------------------------------------------------------------------|-------------------------------------------------------|------------------------|-----------------------|----------------------------------------------------------------|---------------------------------------------------|
| <b>77BA</b>                                                           | <b>6</b>                                              | <b>4</b>               | <b>F</b>              | <b>59</b>                                                      | <b>R</b>                                          |
| 77BA- 70:1 GEAR RATIO<br>23/59 MOTOR<br>12,000 FT-LB TORQUE<br>23 RPM | 2- 2" HEX (ONLY FOR USE ON 77BD)<br><br>5- 2 1/2" HEX | 4- Ø1 1/4<br>5- Ø1 1/2 | F- FACTORY<br>U- USER | 23- WINCH MOTOR*<br>6.38 CID<br>59- STANDARD MOTOR<br>6.38 CID | R- ROTATED BAIL 90° FOR BACKHOE AND EXCAVATOR USE |
| 77BC- 46:1 GEAR RATIO<br>23/59 MOTOR<br>8,000 FT-LB TORQUE<br>35 RPM  | 6- 2 5/8" HEX                                         |                        |                       |                                                                |                                                   |
| 77BD- 38:1 GEAR RATIO<br>23-59 MOTOR<br>6,500 FT-LB TORQUE<br>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.



# 77 SERIES DRIVE HEAD

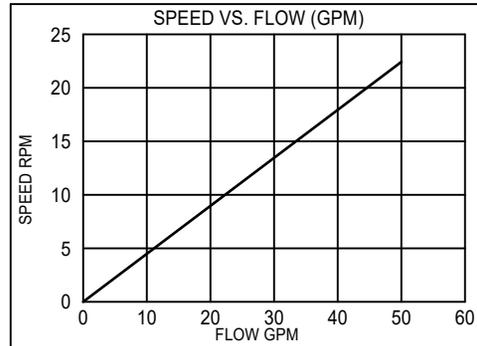
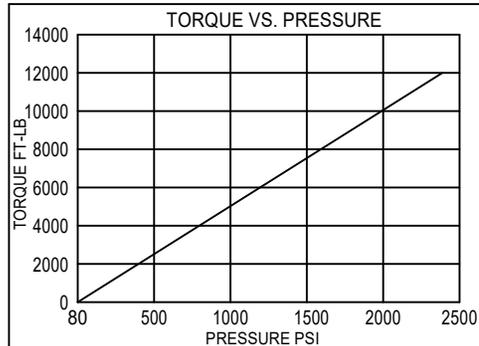
6,500 ft-lb (8,812 N-m) to 12,000 ft-lb (16,270 N-m) Maximum  
Typical Applications: Utility and Construction Industries

(913) 782-1238 (Tel)  
(913) 782-4206 (Fax)  
[Sales@Eskridgeinc.com](mailto:Sales@Eskridgeinc.com)  
[www.Eskridgeinc.com](http://www.Eskridgeinc.com)  
FORM: PS77-DD

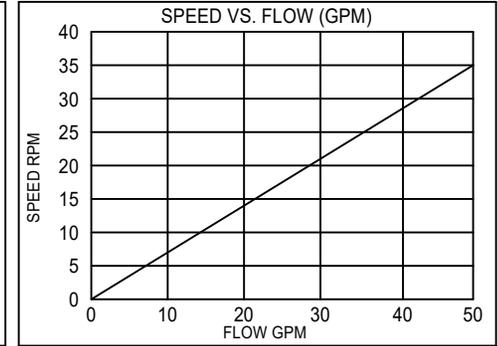
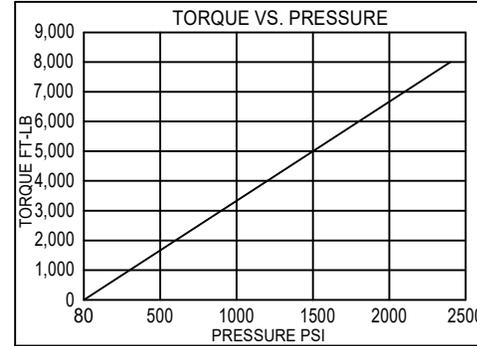
Page 3 of 3

## Torque and Speed Charts:

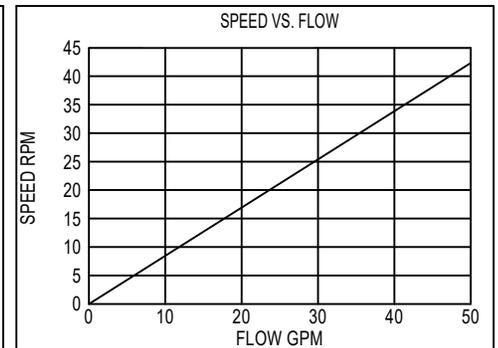
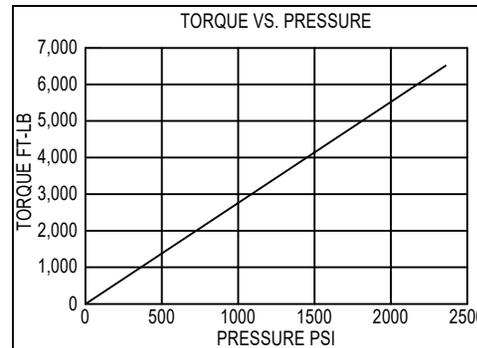
77BA With 23 OR 59 Motor



77BC With 23 or 59 Motor



77BD 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.

**ESKRIDGE, INC. EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE FOR THE PRODUCTS SHOWN HEREIN.** Any claims based on or related to the products shown herein will be satisfied only by repair or replacement in Eskridge, Inc.'s sole discretion to the extent covered by Eskridge's Product Warranty. Eskridge, Inc. is not liable for incidental or consequential damage of any kind or nature that relate in any way to the products shown herein. For complete warranty information, please refer to Eskridge, Inc.'s Product Warranty that applies to the products shown herein and is incorporated by this reference as if fully set forth. A copy of Eskridge, Inc.'s Product Warranty can be obtained by writing Eskridge, Inc. at P.O. Box 875, 1900 Kansas City Road, Olathe, Kansas 66061