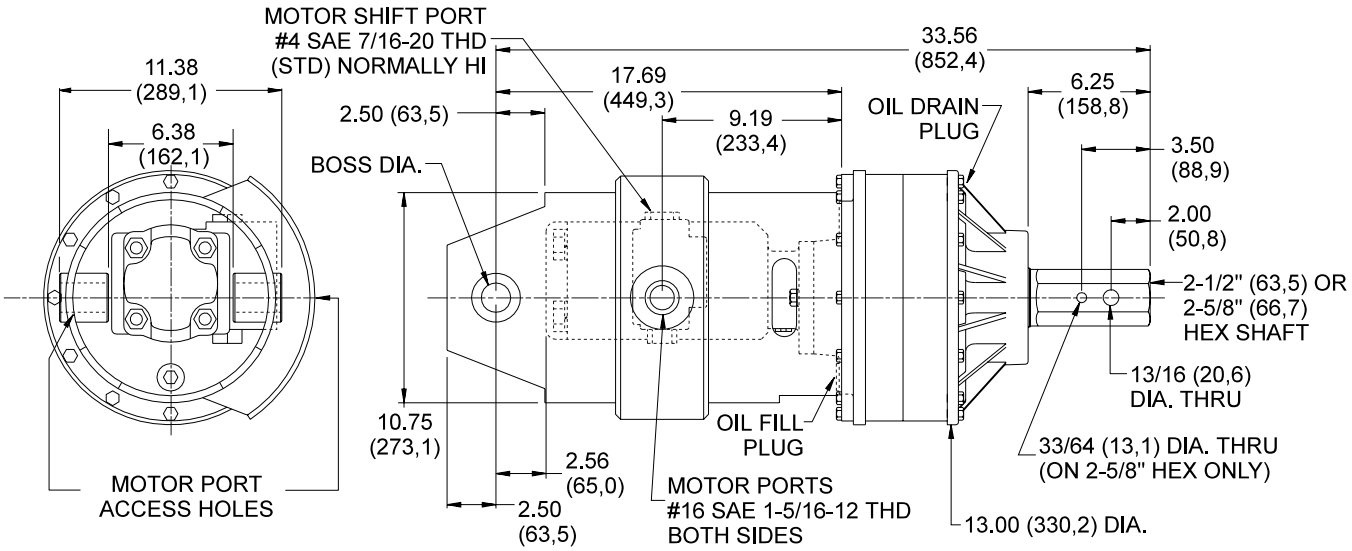
78 Series DiggerDrive™

3,200 TO 12,000 FT-LB TORQUE (TWO SPEED)

Data Sheet 7078

The series 78 is a heavy duty two speed DiggerDrive™ with hydraulic shift-on-the-fly design for multiple applications, from pier and foundation work to anchor installation. High-speed to low-speed adaptability for varying soil conditions.

- Now available with automatic "Kickdown" shifting to low-speed high-torque position while augering.



TWO SPEED SHIFT-ON-THE-FLY OR OPTIONAL SINGLE SPEED
HEAVY DUTY, HIGH EFFICIENCY, DOUBLE PLANETARY DRIVE

SHAFT SIDE LOADING NOT RECOMMENDED

TECHNICAL SPECIFICATIONS

MOTORS: 1 & 2-SPEED GEAR TYPE
MOTOR MOUNT: SAE "C" 2-BOLT AND 4-BOLT
RATED OUTPUT TORQUES: TO 12,000 ft-lb (16,272 N-m)
MAXIMUM SYSTEM PRESSURE: 2,500 psi (172,4 bar)
SHIFTING PRESSURE: 300 psi (20,7 bar) MINIMUM, 2500 psi (172,4 bar) MAXIMUM
MOTOR CASE DRAIN: REQUIRED
OUPUT SHAFT: 2-1/2" (63,5 mm) OR 2-5/8" (66,7 mm) HEX
SHAFT PULL-OUT LOAD: 28,000 lb (6804 kg)
SHAFT PRESSURE LOAD: 15,000 lb (6804 kg)
OIL CAPACITY: 6.5 pts (3,1 l)
BAIL BOSS DIAMETER: 1.26" (32,00 mm) OR 1.51" (38,35 mm)
WEIGHT: 370 lb (168.2 kg)

Performance Data

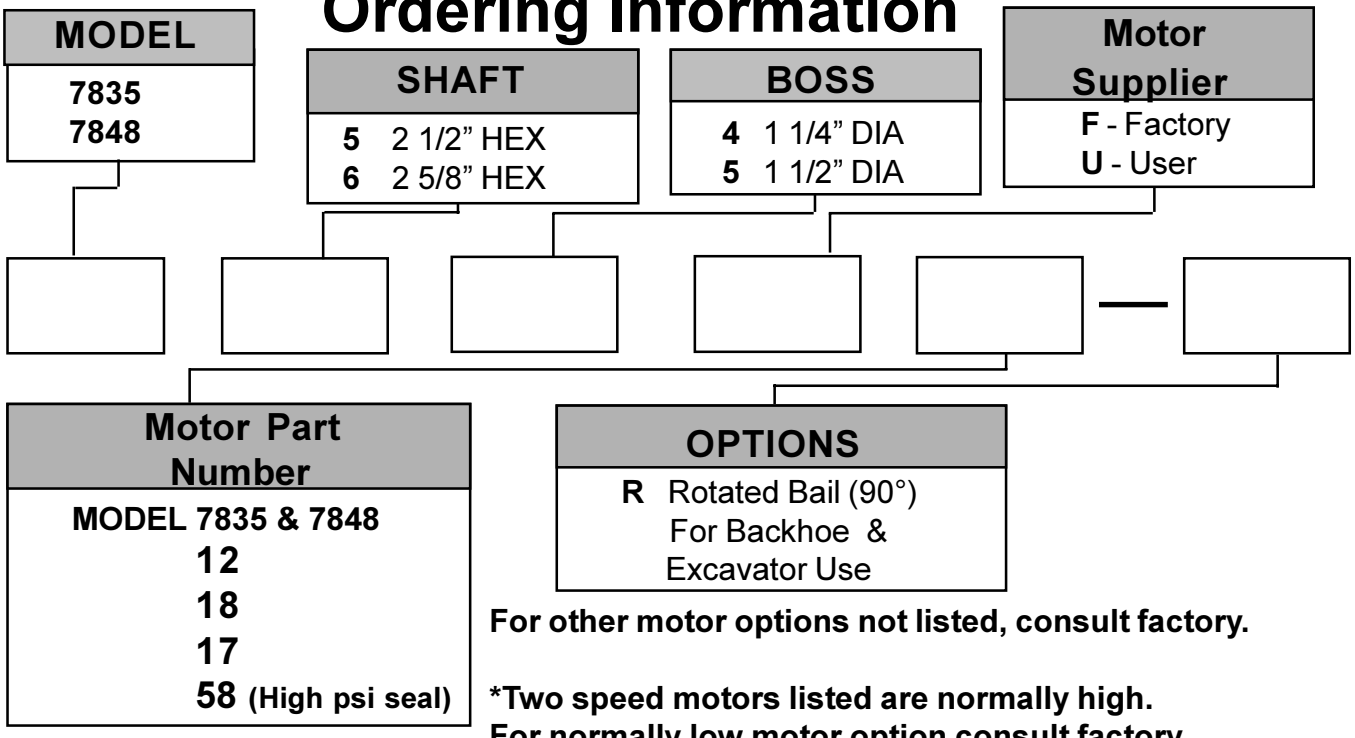
MODEL	MOTOR	MOTOR PRESSURE	FLOW gpm	RATED TORQUE/SPEED HIGH SPEED	RATED TORQUE/SPEED LOW SPEED
7835	17	2400	40	3,750 ft-lb-52rpm	9,500 ft-lb-26rpm
	18	2400	40	2,340 ft-lb-82rpm	8,900 ft-lb-27rpm
	58	2400	40	2,340 ft-lb-82rpm	8,903 ft-lb-27rpm
7848	12	2400	40		11,500 ft-lb-19rpm
	18	2400	40	3,200 ft-lb-21rpm	12,000 ft-lb-18rpm
	58	2400	40	3,200 ft-lb-21rpm	12,000 ft-lb-18rpm

Maximum intermittent value.

NOTES:

- STARTING TORQUES ARE APPROXIMATELY 25% LESS THAN RUNNING TORQUES.
- SYSTEM BACK PRESSURE WILL REDUCE THE RUNNING TORQUES PROPORTIONALLY.
- BACK PRESSURE SHOULD BE LIMITED TO 100 psi (6,9 bar).
- MAXIMUM FLOW RATE IS DEPENDENT UPON MOTOR DISPLACEMENTS.
- HIGH ALLOY HEAT TREATED BAIL BOSS PINS REQUIRED (CUSTOMER PROVIDED).

Ordering Information



For other motor options not listed, consult factory.

***Two speed motors listed are normally high.**
For normally low motor option consult factory.