

Hydraulic Motor Drive Kit

Frame mounted pumps / Model B-ZR ball bearing brackets

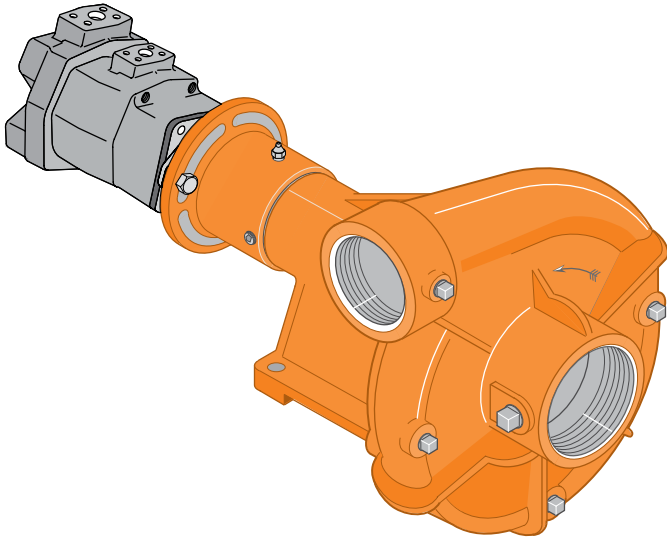


Figure 1 – Hydraulic motor drive kit on Model B3ZRM pump

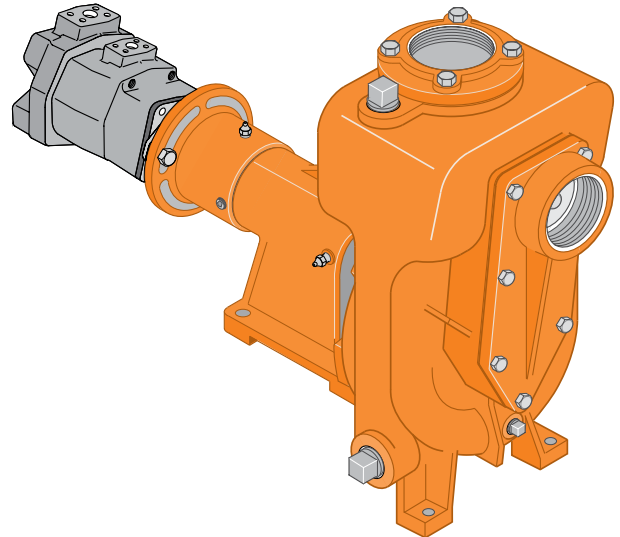


Figure 2 – Hydraulic motor drive kit on Model B4ZRKS self-prime pump

- Ideal for mobile units where truck hydraulic system is adequate to drive pump.
- Pump unit can be installed in any convenient location. Alignment with transmission side power take-off not required.
- Very small hydraulic motor eliminates large mounting space envelope required by engine. Engine fuel system, cooling system, exhaust system, and batteries are not required.
- The hydraulic motor drive kit can be used with the following pump models that use style H04007 or H000553 brackets. Kit can be installed on existing pump or ordered for a new pump.

Pump Model	HP Range	Speed Range
B1-1/2ZRL(S)	20	1000~3600
B2-1/2ZRL(S)	40	1400~3600
B2-1/2ZRM(S)	55	1400~3400
B2ZRL(S)	25	1000~3600
B2ZRM(S)	21	1000~2800
B3ZRM(S)	40	1400~2300
B4ZRKS	23	1000~2200
B6ZRH(S)	45	900~1900
B6ZRL(S)	46	2100~1400
B6ZRM(S)	35	2200

Hydraulic Motor Drive Kit • Catalog Number B07779 • Shipping Weight 15 lbs.

Price includes mounting bracket, splined shaft coupling, shaft key, set screws, grease fitting and tow bolts, nuts and washers to secure hydraulic motor to mounting bracket.

(Price does not include centrifugal pump or hydraulic motor or installation.)

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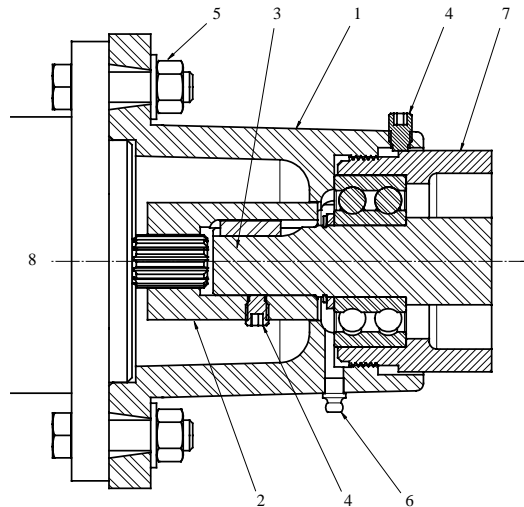


Figure 3

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| <ol style="list-style-type: none"> 1. Mounting Bracket – Cast Iron
Fits on Model B-ZR ball bearing bracket in place of outer bearing cap. Supports hydraulic motor and maintains exact shaft alignment. 2. Splined Shaft Coupling – Steel
Precision machined to fit SAE standard hydraulic motor shaft spline (see Figure 4 for size). Coupling is installed on pump shaft and locked in place with drive key and set screw. 3. Pump Shaft – Steel
Length of new or existing shaft projection to be | <ol style="list-style-type: none"> shortened by saw cut, as shown in installation instructions (disassembly of pump is not required). 4. Set Screws – Steel 5. Bolts, with Nuts and Flat Washers – Steel 6. Grease Fitting for outer pump bearing – Steel 7. Model B-ZR Ball Bearing Bracket – Cast Iron
Component of new or existing pump unit (see Pump Model). 8. Hydraulic Motor – See below for detailed requirements. |
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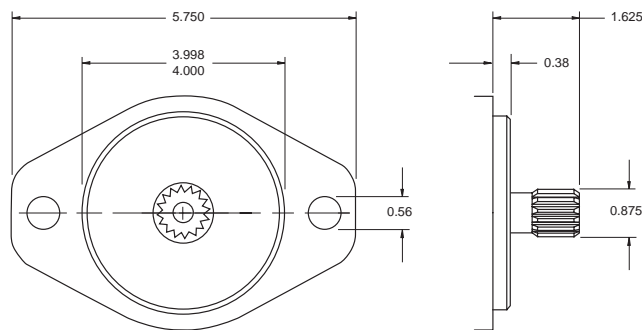


Figure 4

Hydraulic Motor Requirements

The hydraulic motor must have an SAE Standard (SAE J744C) mounting flange and shaft size [B], with 30° involute spline, 13T, 16/32 pitch, as shown in Figure 4.

The hydraulic motor must produce the torque required to drive the centrifugal pump at the desired operating speed. For the centrifugal pump GPM and TDH, read the required RPM and BPH from the pump performance curve, and calculate the required torque, in Lbs-Ft, as follows:

$$\text{Torque} = \frac{(5252) \times (\text{BPH})}{(\text{RPM})}$$

The hydraulic motor selected must match with the flow and pressure capability of the hydraulic power source system. The operating speed of the centrifugal pump will be controlled by valves in the hydraulic power source system.