

**Model 7005-BNT, 2-6 in.³
Variable Delivery Helm Pump**



This pump features adjustable volume in a compact design. Adjustment from 2-6 cubic inches per turn is easily accomplished from the outside.

A ball bearing and two thrust bearings provide smooth operation and long life. A lock valve installed on the back of the helm pump prevents rudder feedback and also allows installation of multiple control stations.

This pump has a black epoxy finish with a short tapered shaft however it can also be ordered in a natural bronze finish and/or with a long or short straight shaft.

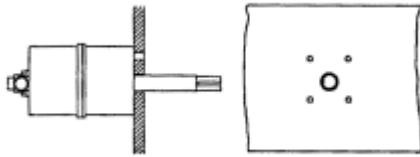
Ordering Information

Model Designations:

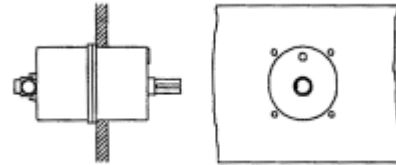
| | | | |
|----------|--|----------|--|
| A | With cast bronze finish (Standard) | N | With short shaft (for through console mount) |
| B | With black epoxy finish | P | With porting block only (no lock valve) |
| L | With long shaft (for behind console mount) | T | With tapering shaft |

Model 7005 2-6in3 Variable Delivery Helm Pump

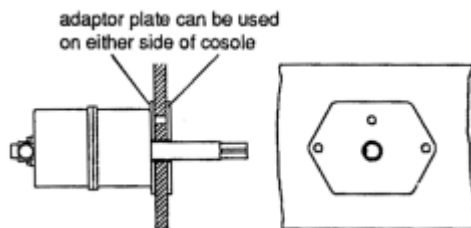
Behind console installation with long shaft



Through console installation with short shaft



Installation with adapter plate



Note

An adapter plate to simplify installation of the helm pump is available. It can be installed on either side of the console.

Ordering Numbers

7005-0011A Cast Bronze Finish

7005-0011B Black Epoxy Finish

Weight

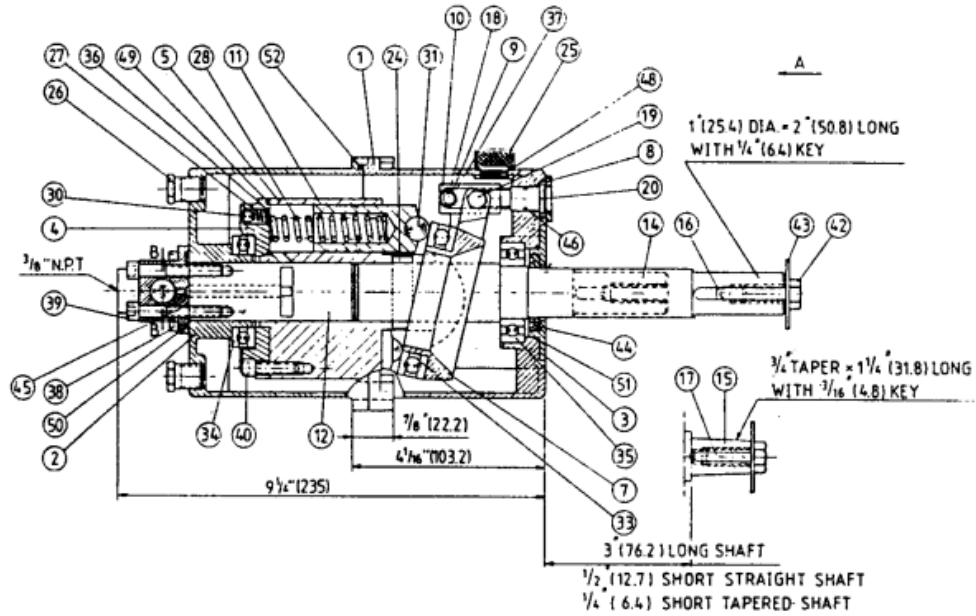
23 lbs. (10.4 kg)

Materials

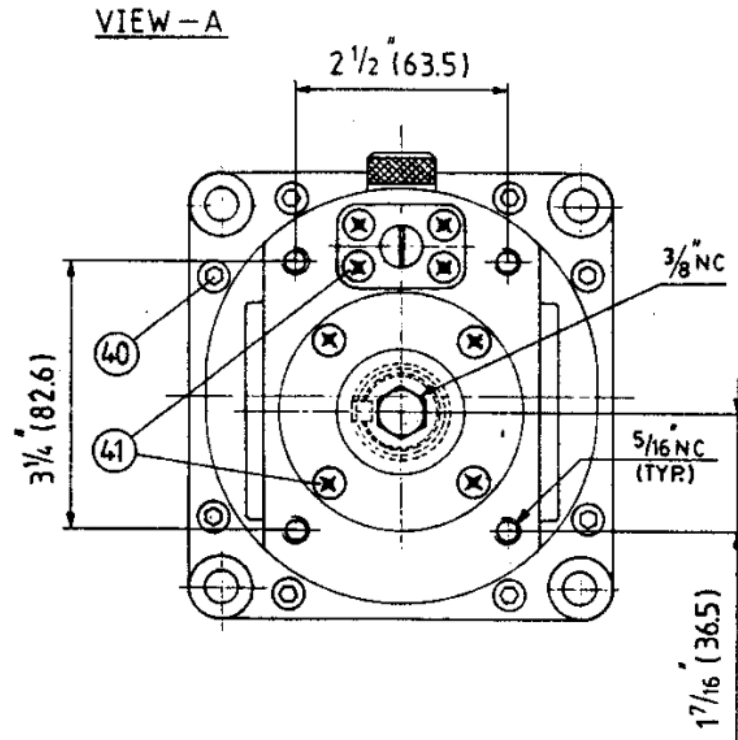
Housing and rotor are die-cast silicon bronze. Pistons and pintol are hardened and ground steel. Pump shaft and hardware are stainless steel.

Dimensions and Parts

Side View

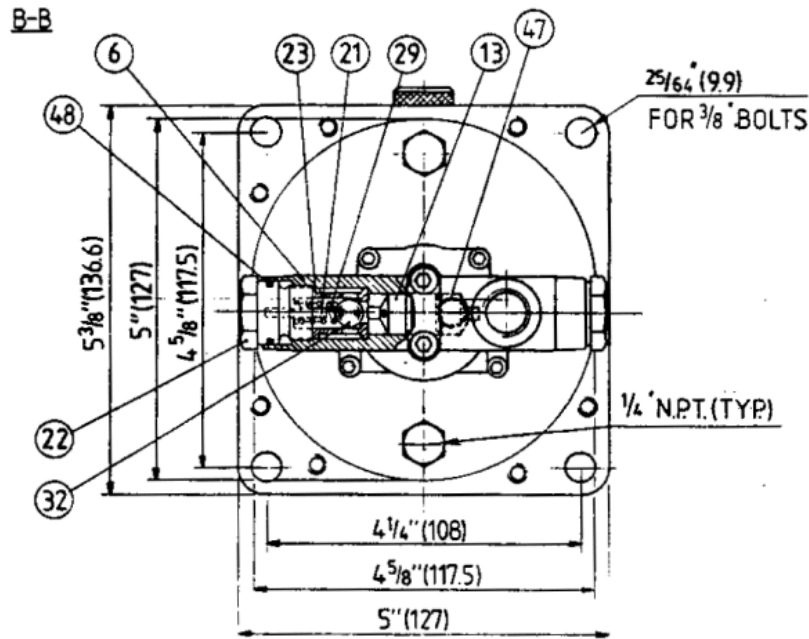


Front View



Model 7005 2-6in3 Variable Delivery Helm Pump

Back View



ALL DIMENSIONS IN INCHES (MM)

| ITEM | QUANTITY | PART NUMBER | DESCRIPTION |
|------|----------|-------------|-------------------------|
| 1 | 1 | 7005-0001 | Front Housing |
| 2 | 1 | 7005-0002 | Rear Housing |
| 3 | 1 | 7005-0003 | Front Seal Retainer |
| 4 | 1 | 7005-0004 | Check Valve Housing |
| 5 | 1 | 7005-0005 | Rotor |
| 6 | 1 | 7005-0006 | Lock Valve Body |
| 7 | 1 | 7005-0007 | Thrust Bearing Retainer |
| 8 | 1 | 7005-0008 | Adjustment Cover Plate |
| 9 | 2 | 7005-0009 | Link |
| 10 | 1 | 7005-0010 | Adjusting Block |
| 11 | 7 | 7005-0012 | Piston |
| 12 | 1 | 7005-0013 | Pintol |
| 13 | 1 | 7005-0014 | Shuttle |
| 14 | 1* | 7005-0015 | Straight Shaft (Short) |
| 14 | 1* | 7005-0016 | Straight Shaft (Long) |
| 15 | 1* | 7005-0017 | Tapered Shaft (Short) |
| 15 | 1* | 7005-0018 | Tapered Shaft (Long) |
| 16 | 1* | 7005-0019 | Key (Straight Shaft) |
| 17 | 1* | 7005-0020 | Key (Tapered Shaft) |
| 18 | 1 | 7005-0021 | Snap Ring Pin |
| 19 | 2 | 7005-0022 | Shoulder Bolt |
| 20 | 1 | 7005-0023 | Adjusting Screw |
| 21 | 2 | 7005-0024 | Pin |

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| ITEM | QUANTITY | PART NUMBER | DESCRIPTION |
|------|----------|-------------|------------------------------|
| 22 | 2 | 7005-0025 | End Cap |
| 23 | 2 | 7005-0026 | Ball Seat |
| 24 | 1 | 7005-0027 | Pin |
| 25 | 1 | 7005-0028 | Filler Plug |
| 25 | 1* | 7005-0029 | Vented Filler Plug |
| 25 | 1* | 7005-0030 | Filler Plug With Pipe Thread |
| 26 | 2 | 7005-121B | Hex. Plug |
| 27 | 7 | 1201-0163 | Spring |
| 28 | 7 | 1201-0164 | Spring |
| 29 | 2 | 1201-0165 | Spring |
| 30 | 7 | 1301-0108 | Ball |
| 31 | 7 | 1301-0116 | Ball |
| 32 | 2 | 1301-0112 | Ball |
| 33 | 1 | 7005-51112 | Thrust Bearing |
| 34 | 1 | 7005-51108 | Thrust Bearing |
| 35 | 1 | 7005-6006 | Ball Bearing |
| 36 | 7 | 1029-6037 | Self Locking Retainer Ring |
| 37 | 2 | 1029-1025 | Snap Ring |
| 38 | 4 | 1002-0810 | Socket Head Capscrew |
| 39 | 2 | 1002-1028 | Socket Head Capscrew |
| 40 | 15 | 1002-1010 | Socket Head Capscrew |
| 41 | 8 | 1009-0808 | Flat Head Screw |
| 42 | 1 | 1001-1216 | Hex. Head Screw |
| 43 | 1 | 1023-0248 | Washer |
| 44 | 1 | 7005-11130 | Front Seal |
| 45 | 2 | 1101-0010 | "O" Ring |
| 46 | 1 | 1101-0012 | "O" Ring |
| 47 | 2 | 1101-0011 | "O" Ring |
| 48 | 3 | 1101-0017 | "O" Ring |
| 49 | 7 | 1101-0022 | "O" Ring |
| 50 | 1 | 1101-0029 | "O" Ring |
| 51 | 1 | 1101-0032 | "O" Ring |
| 52 | 1 | 1101-0158 | "O" Ring |

* Quantity may vary.

7005 Mounting

