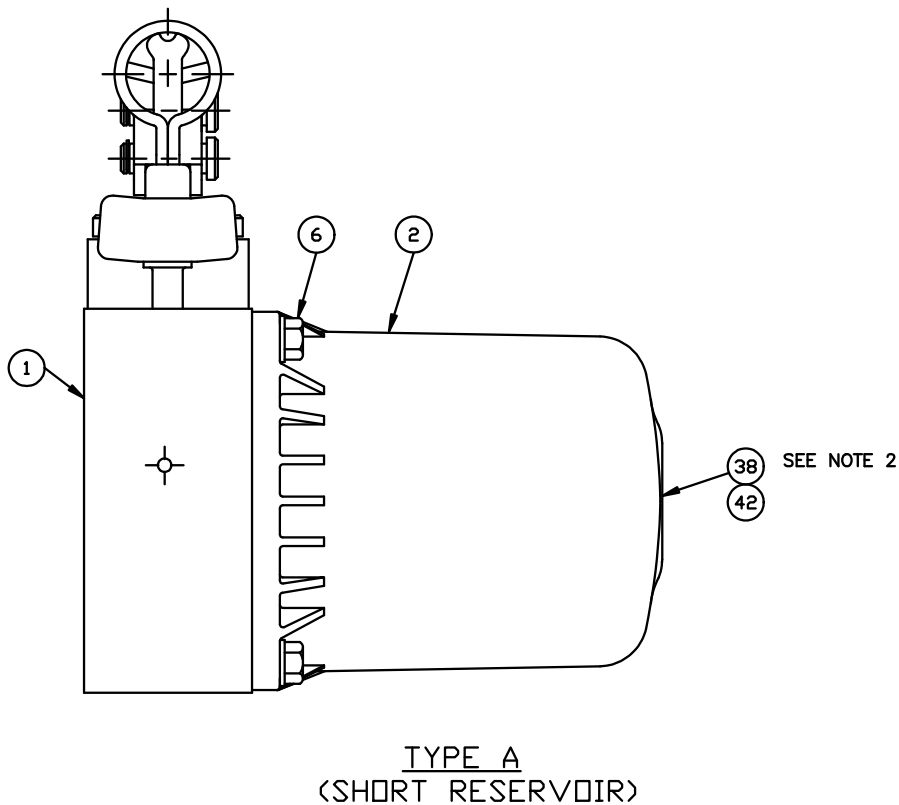
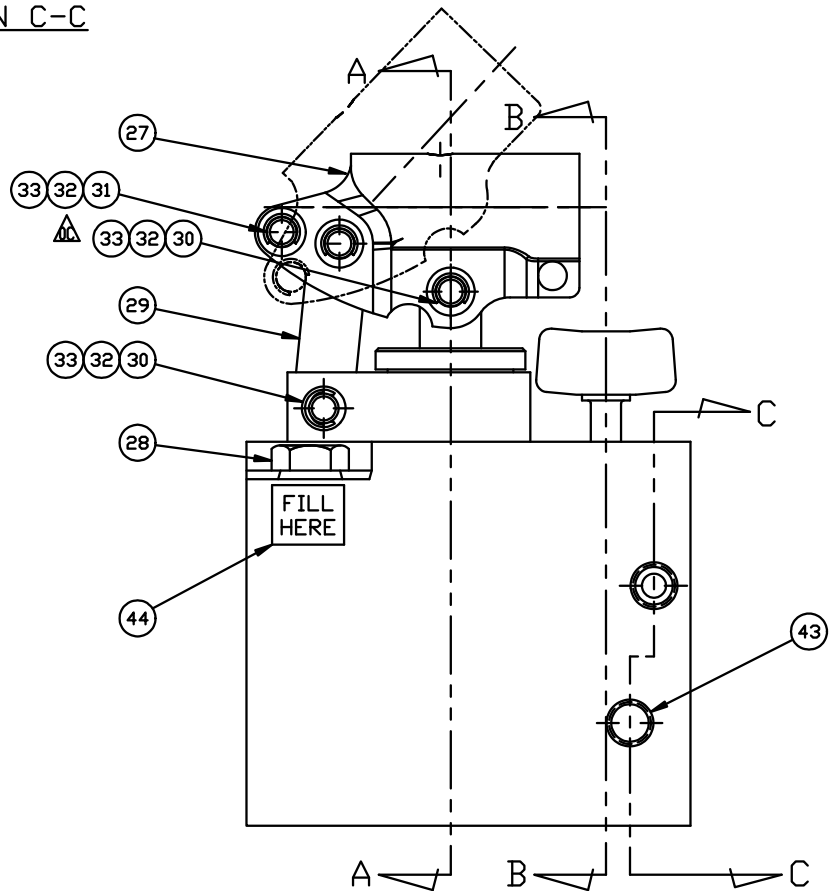
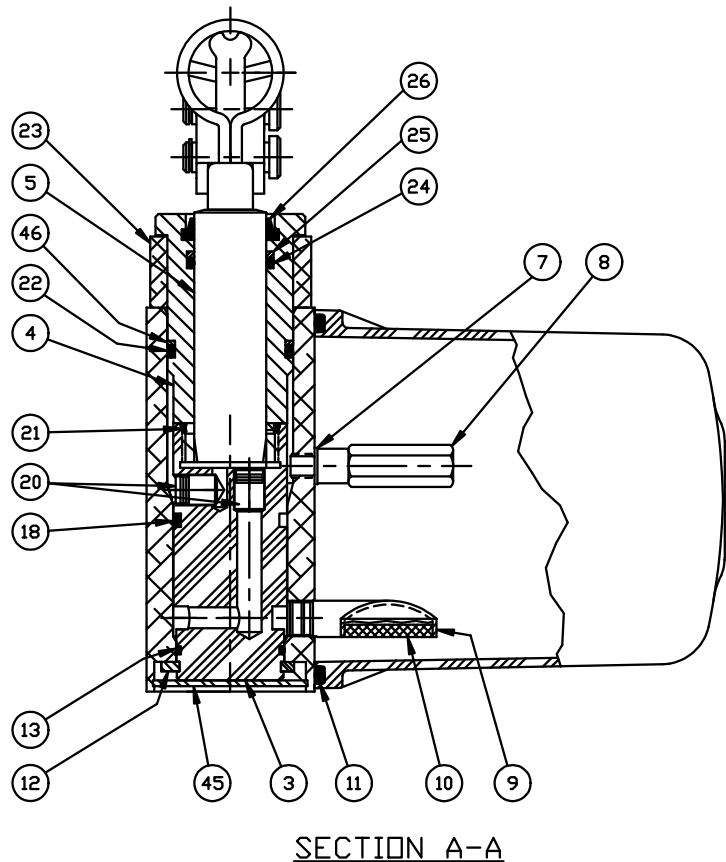
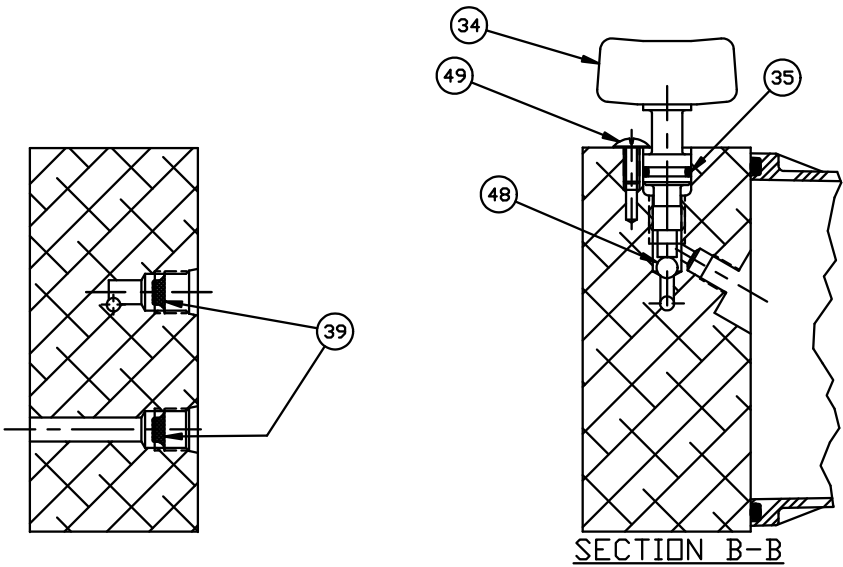


| TORQUE TABLE  |                |
|---------------|----------------|
| ITEM NO.      | TORQUE TO:     |
| 2             | 4-7 FT. LBS.   |
| 9             | 45-55 FT. LBS. |
| 20            | 45-55 FT. LBS. |
| 30            | 4-7 FT. LBS.   |
| 31            | 50-60 IN. LBS. |
| 38            | 50-75 IN. LBS. |
| 50            | 4-6 FT. LBS.   |
| SHIPPING PLUG | 50-75 IN. LBS. |



- NOTE:
1. RELIEF VALVE SETTING  
6000-6200 P.S.I.
  2. MARK LABEL ITEM #43 (HP50024209-XXXXXP)  
XXX IS DATE CODE, DAY OF YEAR.

| ITEM     | PART NUMBER | QTY                  | DESCRIPTION               |
|----------|-------------|----------------------|---------------------------|
| 1        | PP1222191   | 1                    | PUMP BODY                 |
| 2        | PP284025    | 1                    | SHORT RESERVOIR           |
| 3        | PP3113.225  | 1                    | INSERT, HAND PUMP         |
| 4        | PP542030    | 1                    | CYLINDER                  |
| 5        | A8057051    | 1                    | PISTON                    |
| 6        | PP548042    | 4                    | SCREW                     |
| 7        | S3037       | 1                    | GASKET                    |
| 8        | PP733900    | 1                    | RELIEF VALVE              |
| 9        | A8042038    | 1                    | INLET ADAPTER             |
| 10       | A8021018    | 1                    | SCREEN                    |
| 11       | PP560523    | 1                    | O-RING                    |
| 12       | PP557049    | 1                    | RETAINING RING            |
| 13       | B1022903    | 1                    | O-RING                    |
| 18       | B1120903    | 1                    | O-RING                    |
| 20       | PP3114.660  | 2                    | VALVE, REVERSE FLOW CHECK |
| 21       | B1020903    | 1                    | O-RING                    |
| 22       | B1122903    | 1                    | O-RING                    |
| 23       | PP535111    | 1                    | SWIVEL BRACKET            |
| 24       | B1115903    | 1                    | O-RING                    |
| 25       | B1115565    | 1                    | BACK-UP WASHER            |
| 26       | A8064476    | 1                    | WIPER                     |
| 27       | 3010002303  | 1                    | BRACKET BEAM              |
| 28       | PP757900    | 1                    | VENT PLUG                 |
| 29       | PP558062    | 1                    | LINK                      |
| 30       | PP553061    | 2                    | PIN, CLEVIS               |
| 31       | PP554061    | 2                    | PIN, CLEVIS               |
| 32       | PP551108    | 8                    | WASHER                    |
| 33       | PP552049    | 4                    | RETAINING RING            |
| 34       | CL913900    | 1                    | VALVE SPINDLE             |
| 35       | B1007503    | 1                    | O-RING                    |
| 38       | PP180026    | 1                    | MARK DECAL                |
| 39       | A8001018    | 2                    | OIL STRAINER SCREEN       |
| 40       | PP570098    | 1                    | COVER                     |
| 41       | B1122565    | 1                    | BACK-UP WASHER            |
| 42       | PP780026    | 1                    | DECAL MASK                |
| 43       | A8053006    | 1                    | PLUG                      |
| 44       | PP770226    | 1                    | LABEL                     |
| 48       | B1006016    | 1                    | BALL                      |
| 49       | PP1210042   | 1                    | TRUSS HD. MACH. SCR.      |
| ATS515   | A/R         | ASSEMBLY & TEST SPEC |                           |
| KH5024   | A/R         | SERVICE KIT          |                           |
| KH5027   | A/R         | SERVICE KIT          |                           |
| KH5028   | A/R         | SERVICE KIT          |                           |
| KH5032   | A/R         | SERVICE KIT          |                           |
| PID315   | A/R         | INSTALLATION DRAWING |                           |
| PSD99    | A/R         | SERVICE DRAWING      |                           |
| PP584006 | A/R         | SHIPPING PLUG        |                           |

ITEM #27 3010002303 WAS PP566060  
ITEM #30 PP553061 (2) REQ'D WAS (1)  
ITEM #45 & 46 REMOVED  
ITEM #32 PP551108 (8) REQ'D WAS (6)  
ITEM #33 PP552049 (4) REQ'D WAS (3)  
ECO# 10-014-2 J.H. 01/19/12

IT. 3 WAS: PP546.225 (INSERT)  
IT. 20 WAS: PP556.549, (1)  
REM'D FOLLOWING ITEMS:  
14, B1007.016, BALL, #.25  
15, B1004.016, BALL, #.156  
16, A8234.110, SPRING  
17, A8103.110, SPRING  
19, PP555.549, RET. RING, (2)  
ECO 31609 TRD 4/4/01

REM'D. IT. 37, PP569026  
ADD ECO 31456 TRD 12/8/98  
RELEASED TO PROD.  
ADD ECO 31293 TOR 1/26/98

| SPECIFICATIONS                       |             | DIMENSIONS IN BRACKETS ARE IN INCH                                                                                                                                                                                    |                         | REV.                          | CHANGES<br>ECO#/DATE/INITIAL |
|--------------------------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------------|------------------------------|
|                                      |             | <div>✓ FROM UNLESS SPECIFIED<br/>Ra μ (Rough μm)</div>                                                                                                                                                                |                         |                               |                              |
|                                      |             | <div></div> <div>engineered solutions</div> |                         |                               |                              |
| DRAWING STANDARD BY ASME Y14.1M-1994 |             | ALL ANGULAR DIMENSIONS ARE<br>31° UNLESS SPECIFIED                                                                                                                                                                    |                         | TITLE:<br>ASSEMBLY, HAND PUMP |                              |
| WHERE USED (REF)                     | MODEL (REF) | SCALE<br>FULL                                                                                                                                                                                                         | DO NOT SCALE<br>DRAWING |                               |                              |
| HP50024209                           |             | DR-<br>TOL                                                                                                                                                                                                            | DATE: 1/28/98           | PART NO.<br>HP50024209        |                              |
| BOS FILE                             |             | CH-<br>APPD                                                                                                                                                                                                           | DATE                    |                               |                              |
| 012351.dwg                           |             | DRAWING SIZE<br>D                                                                                                                                                                                                     |                         |                               |                              |