WIDDER TOOLS



HPIH-3000 Hand Pump



PRODUCT INFORMATION AND OPERATING INSTRUCTIONS:

Description: The HPHI-3000 Hand Pump is a portable, manually operated hydrostatic test system. The aluminum base with convenient built-in handle creates a light weight and compact unit, while retaining ruggedness and durability. This unit comes

and compact unit, while retaining ruggedness and durability. This unit comes standard with a relief valve and stainless-steel check valve for solid performance.

Specifications: Weight 17 lbs.

| VV CISIII | 1 / 105. |
|-----------------------|---------------------------------|
| Pump Ratio | 60:1 |
| Max. Output Pressure | 3,020 PSI (75 lbs. handle load) |
| Displacement / Stroke | 0.360 cu. in. |
| Max. Flow Rate | 3.5 GPM w/ 60 PSI inlet pres. |
| Fluid Inlet | 1/2" NPT Female |
| Fluid Outlet | 1/2" NPT Female |
| | |

IMPORTANT: READ MANUAL CAREFULLY BEFORE OPERATING THIS TOOL. FOLLOW ALL SAFETY PRECAUTIONS LISTED AND ALL OSHA REGULATIONS PERTAINING TO THIS TOOL.



SAFETY PRECAUTIONS:

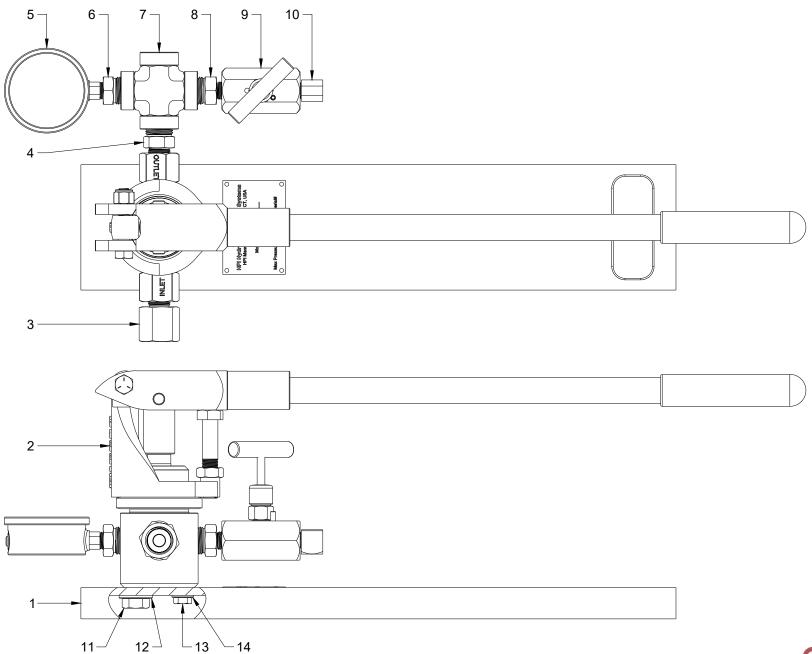
- 1. Be sure all pressure on air and water fittings is relieved before disconnecting any hoses or fittings.
- 2. Wear eye protection.
- 3. Pressurization of any materials is dangerous-follow OSHA procedures for stored energy and any pressurization cautions pertaining to the fluids used.
- 4. This system can develop pressure up to the nameplate pressure- do not over pressure test vessels as damage can occur.

OPERATING INSTRUCTIONS:

- 1. Close Bleed Valve.
- 2. Attach water supply to inlet side with supply off.
- 3. Attach outlet side to vessel using suitable hose.
- 4. Fill vessel to be tested by opening water supply
- 5. When vessel is full, lift pump handle completely and crack needle valve to bleed any air
- 6. Once air is bled from the system, firmly close needle valve.
- 7. Pump unit to desired test pressure ** Do not exceed pump rated pressure!
- 8. When test is complete, close inlet water supply, then crack needle valve to relieve system pressure.
- 9. Disconnect hoses from inlet and outlet sides of pump.



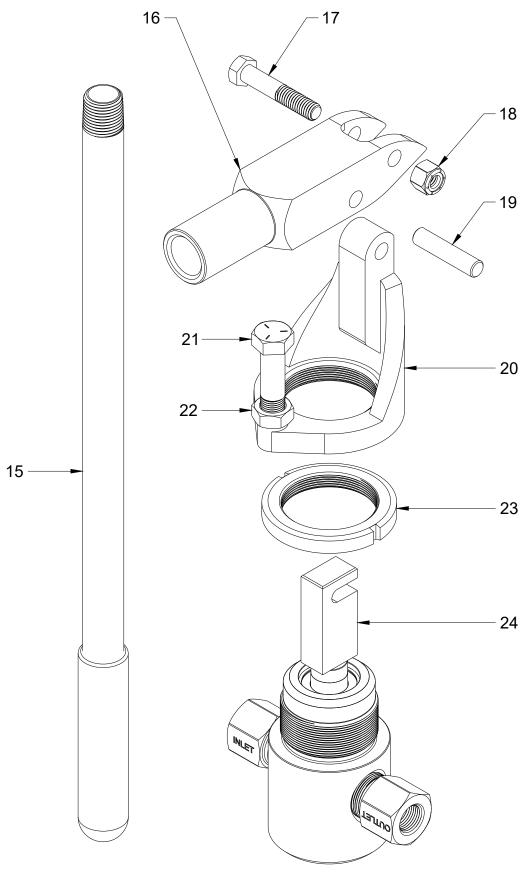
HPIH-3000 Hydrostatic Test Pump



HPIH-3000 Hydrostatic Test Pump

| Item | Part # | Description |
|------|--------------|------------------|
| 1 | PH-1001 | Base |
| 2 | PH-1002-060 | Pump |
| 3 | PH-1010 | Inlet Adapter |
| 4 | PH-1016 | Outlet Adapter |
| 5 | PH-1003-3000 | Gauge |
| 6 | PH-1005 | Gauge Adapter |
| 7 | PH-1011 | Cross |
| 8 | PH-1015 | Valve Adapter |
| 9 | PMI028 | Bleed Valve |
| 10 | PMI048 | Elbow |
| 11 | PH-1006 | Hex Bolt (Large) |
| 12 | PH-1007 | Washer (Large) |
| 13 | PH-1008 | Hex Bolt (Small) |
| 14 | PH-1009 | Washer (Small) |

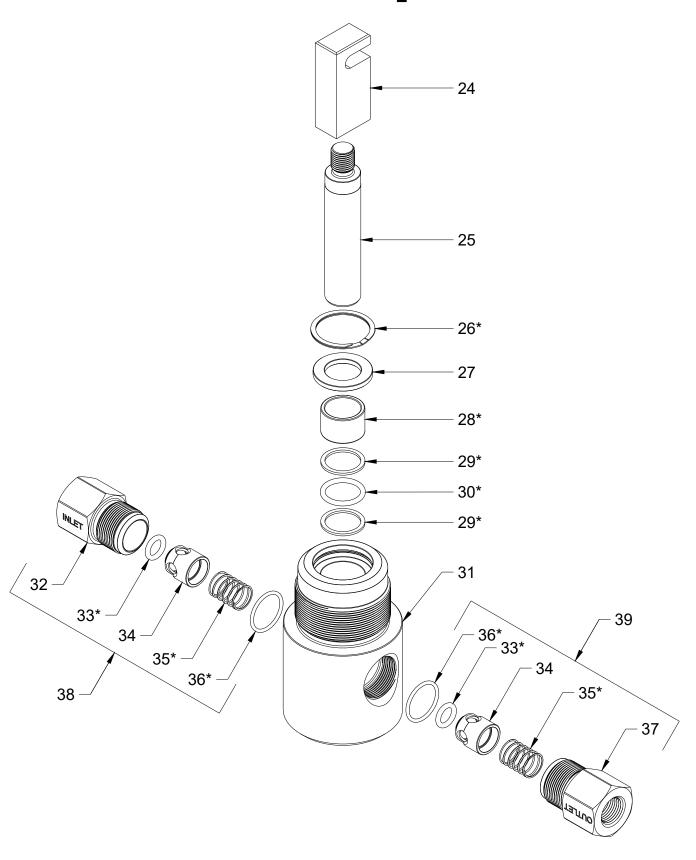
PH-1002-060 Pump - External



PH-1002-060 Pump - External

| Item | Part # | Description |
|------|---------|--------------------------------|
| 15 | PH-1021 | Handle |
| 16 | PH-2014 | Handle Mount |
| 17 | PH-2012 | Bolt, Handle Pivot |
| 18 | PH-2013 | Nut, Handle Pivot |
| 19 | PH-2015 | Pin, Piston Adapter |
| 20 | PH-2009 | Handle Pivot Bracket |
| 21 | PH-2016 | Bolt, Handle Stop |
| 22 | PH-2017 | Jam Nut, Handle Stop |
| 23 | PH-2010 | Lock Nut, Handle Pivot Bracket |
| 24 | PH-2011 | Adapter, Piston to Handle |

PH-1002-060 Pump - Internal



PH-1002-060 Pump - Internal

| Item | Part # | Description |
|------|-------------|--|
| 24 | PH-2011 | Adapter, Piston to Handle |
| 25 | PH-2003-060 | Piston, 60:1 |
| 26* | PH-2008 | Retaining Ring |
| 27 | PH-2007-060 | Seal Retainer, 60:1 |
| 28* | PH-2006-060 | Piston Guide, 60:1 |
| 29* | PH-2004-060 | Backup Ring, 60:1 (2 per pump) |
| 30* | PH-2005-060 | O-Ring, 60:1 Piston |
| 31 | PH-2001-060 | Cylinder, 60:1 |
| 32 | PH-1017-1 | Body, 3/8 NPT Inlet Check Valve |
| 33* | PH-1017-2 | O-Ring, 3/8 NPT CV (2 per pump) |
| 34 | PH-1017-3 | Poppet, 3/8 NPT CV (2 per pump) |
| 35* | PH-1017-5 | Spring, 3/8 NPT CV (2 per pump) |
| 36* | PH-1017-4 | O-Ring, 3/8 NPT CV (2 per pump) |
| 37 | PH-1018-1 | Body, 3/8 NPT Outlet Check Valve |
| 38 | PH-1017 | Inlet Check Valve, 3/8 NPT |
| 39 | PH-1018 | Outlet Check Valve, 3/8 NPT |
| | | |
| * | HPIH-3000SK | Seal Kit (includes all items marked with asterisk) |