

HP STYLE HAND OPERATED PUMPS INSTALLATION & USER GUIDE

SPECIFICATIONS:

- Volume Displacement
HP22SA – 0.20 in³ (3.3 cm³) (When handle is pulled).
HP61DA – 0.60 in³ (9.8 cm³) per full cycle.
HP121DA – 1.20 in³ (19.7 cm³) per full cycle.
- Tank sizes
95 in³ (1557 cm³), 80 in³ (1311 cm³), 65 in³ (1065 cm³),
and 50 in³. (819 cm³).
- TL – 2 in. (50.8 mm) tank used with remote reservoir.
- Pressure rating and (Standard relief setting).
HP22SA – 6000 psi, 414 bar (4000 psi, 276 bar).
HP61DA – 3000 psi (3000 psi, 207 bar).
HP121DA – 2000 psi (2000 psi, 138 bar).
- Outlet Port Size #6 SAE (9/16-18).
- Filler Port Size 1/4" NPT.

MOUNTING, & ADJUSTMENT INSTRUCTIONS:

- **Mounting** – Standard pumps can only be mounted vertically. Horizontal pumps can be mounted horizontally or vertically. Pumps must be mounted on a flat surface. Special attention should be paid to not bend or twist the casting when mounting. Doing so may cause the pump to fail.
- **Relief Adjustment**
 - HP121 relief is preset to 2,000psi [137.9 bar] and is adjustable. HP61 relief is preset to 3,000 psi [206.8 bar] and is adjustable as well. The relief can be adjusted for both HP121 & HP61 by loosening the 9/16" [14.3mm] nut, then using a 5/32" [4.0mm] allen wrench, turn the screw clockwise to increase the pressure. One quarter (1/4) turn will increase the pressure ~ 600 psi [41.4 bars]
 - HP22 relief is preset to 4,000psi [275.8 bar]. The relief can be adjusted by first removing the acorn cap, opposite the handle side, with a 3/4" combination wrench. You will then have access to the relief set screw. Turning this screw with a 1/4" allen wrench clockwise 1/4 turn will increase pressure approximately 200psi.

FREQUENTLY ASKED QUESTIONS:

Q: Can I paint my pump?

A: Painting a pump is okay as long as the ports are properly plugged and piston is masked.

Q: My hand pump will not pump?

A: First, make sure the release valve is closed. After that, make sure the relief setting is high enough for the application.

Q: What kits are available for this pump?

A: There are replacement seal kits for all three pump models. Use P.N. HP22-K seal kit for HP22SA pumps. Use P.N. HP61-K seal kit for HP61DA pumps. Use P.N. HP121-K seal kit for HP121DA pumps.

DIMENSIONAL DATA:

DIMENSIONS LISTED ARE THE SAME FOR HP61 & HP121 SERIES
 (HP61DA SHOWN)

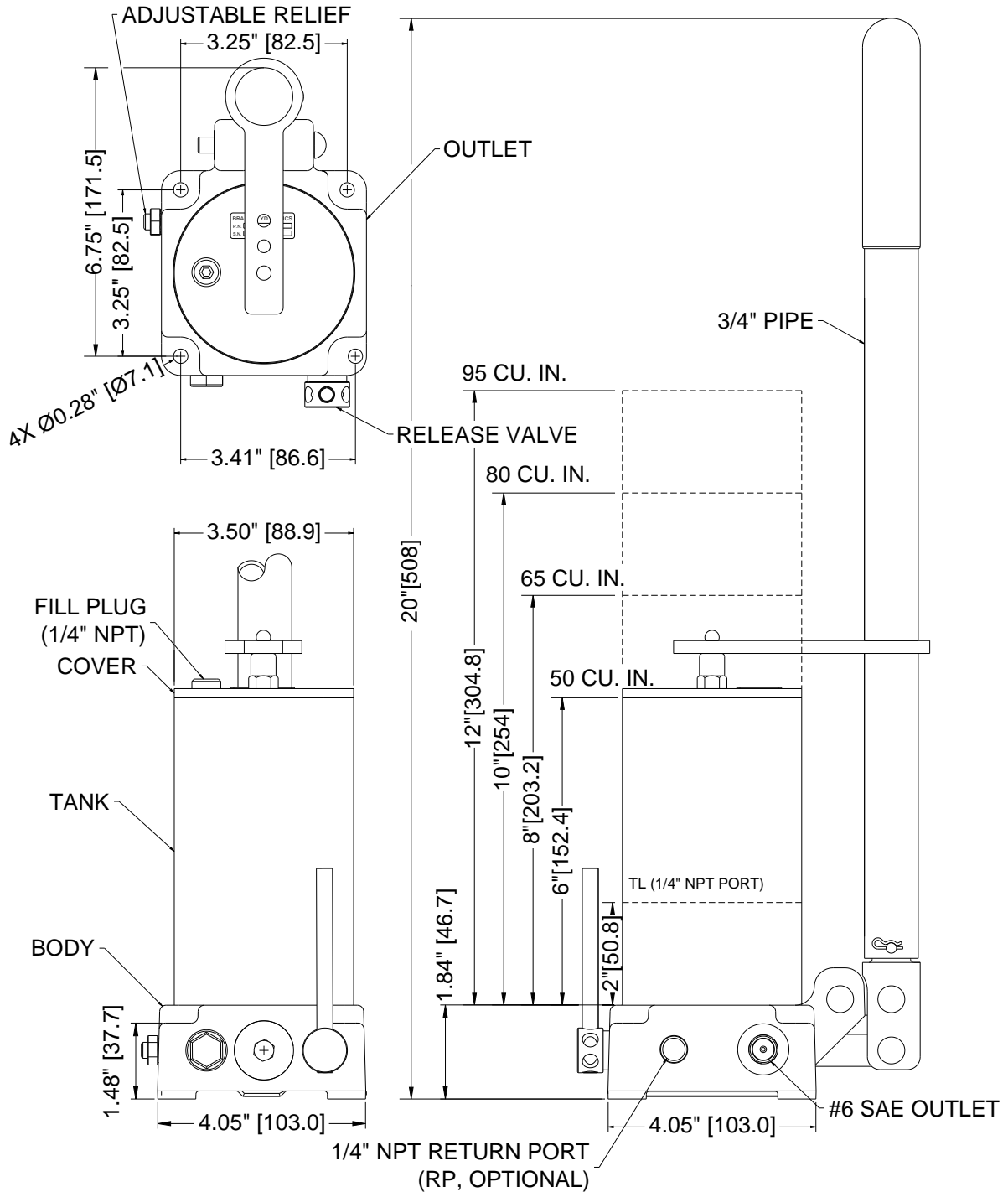


Figure 1: Dimensional Data for HP61 & HP121 style hand pumps in inches & [millimeters].

DIMENSIONAL DATA Cont'd:

DIMENSIONS LISTED ARE THE SAME FOR HP61 & HP121 SERIES
 (HP61DA AND HP121DA SHOWN)

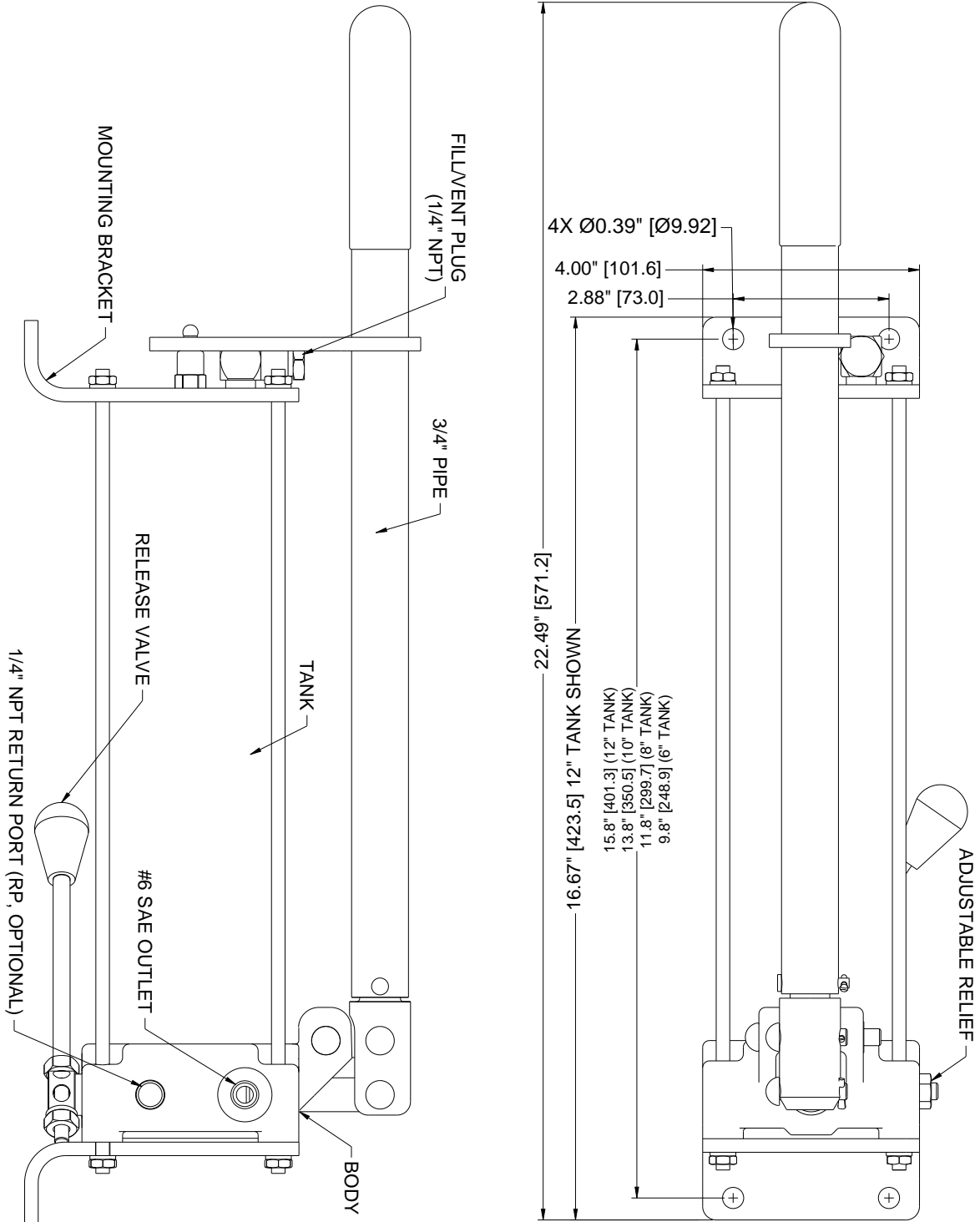


Figure 2: Dimensional Data for Horizontal HP61 & HP121 style hand pumps in inches & [millimeters].



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SAFETY PRECAUTIONS:

- It is the purchaser's responsibility to determine the suitability of any Brand Hydraulics Co. product for an intended application, and to ensure that it is installed in accordance with all federal, state, local, private safety and health regulations, codes and standards. Due to the unlimited variety of machines, vehicles and equipment on which our products can be used, it is impossible for Brand Hydraulics Co. to offer expert advice on the suitability of a product for a specific application. It is our customer's responsibility to undertake the appropriate precautions, testing and evaluation to prevent injury to the end-user.
- Overpressure may cause sudden and unexpected failure of a component in the hydraulic system, resulting in serious personal injury or death. Always use a gauge when adjusting a relief valve.