

# Pneumatic & Hydraulic Hand Pumps

## Easy pressure generation to 15,000 psi

**The LTP1 Pneumatic Pump** acts as a dual source of pressure and vacuum over smaller ranges making very fine adjustments easier. Range is 25" Hg vacuum to 30 psi, with 0.00145 psi sensitivity.

**The TP1 Pneumatic Pump** generates pressure to 600 psi and vacuum to 28" Hg on the same unit. Made with no plastic parts, these pumps are designed to endure harsh environments, unlike our competitor's disposable models.

**The HTP1 Hydraulic Pump** is currently the only hand pump capable of generating pressure up to 15,000 psi, utilizing hydraulic oil, Skydrol or distilled water. The pump includes a unique high pressure or priming selector on the scissor action pump mechanism, making pressure generation above 5000 psi easier.

- Fine adjustment control
- Optional pressure relief valves
- The most efficient pumps available—4 strokes to 5000 psi



SPECIFICATIONS			
Model No.	LTP1	TP1	HTP1
Output pressure	30 psi (0 to 2 bar)	600 psi (0 to 40 bar)	HTP1-700: 10,000 psi (0 to 700 bar) HTP1-1000: 15,000 psi (0 to 1000 bar)
Output vacuum	0 to -25" Hg / 0 to -850 mbar	0 to -28" Hg / 0 to -0.9 bar	—
Materials	Bright nickel-plated brass, clear anodized aluminum	Bright nickel-plated brass, clear anodized aluminum	Series 300 stainless steel, brass, nickel-plated brass, Pyrex®, nitrile polyurethane, PTFE
Pressure media	Air	Air	Mineral based hydraulic oil or distilled water ("Skydrol" and brake fluid available HTP1-S)
Pressure connections	Two 3 ft (1 m) flexible hoses BSP or NPT adapter set; nylon seals	3 ft (1 m) flexible hose BSP or NPT adapter set	3/8" BSP female or 1/4" NPT female adapter, 1/4" BSP or NPT female (blanked off), quick fit connector to suit flexible hose
Adjustment	Fine volumetric pressure/vacuum adjuster with 0.1 mbar / 0.00145 psi sensitivity	Fine volumetric pressure/ vacuum adjuster	High pressure/priming selector, fine adjustment control, pressure release valve

Catalog No.	Model No.	Description
TS-68464-28	LTP1-30	Pneumatic pump, 30 psi to -25 in. Hg
TS-68464-29	LTP1-30-K	Kit with pneumatic pump (30 psi to -25 in. Hg), carrying case, 5-piece adapter fittings and hose kit
TS-68464-30	TP1-40	Pneumatic pump, 600 psi to -28 in. Hg
TS-68461-17	TP1-40-K	Kit with pneumatic pump (600 psi to -28 in. Hg), carrying case, 5-piece adapter fittings and hose kit
TS-68461-11	HTP1-700	Hydraulic pump, 10,000 psi
TS-68461-12	HTP1-700-K	Kit with hydraulic pump (10,000 psi), carrying case, 7-piece adapter fittings and hose kit
TS-68464-18	HTP1-1000	Hydraulic pump, 15,000 psi
TS-68464-19	HTP1-1000-K	Kit with hydraulic pump (15,000 psi), carrying case, 7-piece adapter fittings and hose kit
<b>Accessories</b>		
TS-68464-27	01-0042-40-NPT	Pneumatic hose assembly with NPT fitting
TS-68464-17	HK1-1000	Hydraulic hose kit (15,000 psi) with NPT adapters
TS-68461-05	PRV12-1	Pressure relief valve, 145 to 725 psi
TS-68461-06	PRV12-2	Pressure relief valve, 725 to 2900 psi
TS-68461-07	PRV12-3	Pressure relief valve, 2900 to 5800 psi
TS-68464-25	PRV12-4	Pressure relief valve, 4350 to 10,000 psi
TS-68461-09	PRV12-5	Pressure relief valve, 10,000 to 15,000 psi
<b>TS-17111-06</b>	—	<b>NIST-traceable calibration with data</b>