



# Industrial Grade Hand Pumps

**Model:** ZHP Series

**Max. Operates:** Up to 10,000 psi (70 Mpa)

**Flow At Rated Pressure:** 0.086 to 0.19 in<sup>3</sup>/stroke

**Reservoir Capacity:** 19 to 180 in<sup>3</sup>



Model: ZHP-19



Model: ZHP-29



Models: ZHP-20 & ZHP-30



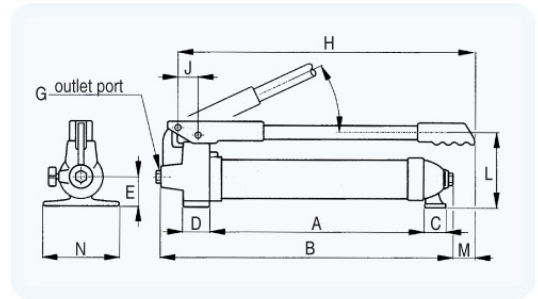
Models:  
ZHP-41 to ZHP-150

## Usage

These industrial quality, general purpose hand pumps are designed for use in a variety of applications where cylinder plunger must advance rapidly to contact load. Ideal for use in any situation where heavy-duty manual hydraulic power is desired.

## Special Features

1. Lightweight for maximum portability.
2. Chrome-plated piston rods resist wear and corrosion.
3. Plungers are hard coat anodized.
4. Single and two-speed pumps are available for use in a variety of applications.
5. Two-speed pumps are faster, reducing handle strokes and operator fatigue.
6. Internal overload valve prevents pump from being used beyond its rated capacity.
7. External adjustable relief valve with anti-losing mechanism design.
8. Optional 6', 8', 12' hose, coupler, and pressure gauge available upon request.
9. Pump, cylinder, and pressure gauge can be assembled as a set to fit any special application.
10. All steel body for durability and long life. Sealed body enables pump to be used in any direction with head down position. This is designed for tough jobs.
11. Widely use for applications where composite reservoirs may not be suitable - the steel material won't burn through in welding environments.
12. Large release knob for controlled lowering speed.



Model Number	Speed	Usable Oil Capacity (in <sup>3</sup> )	Pressure Rating (psi)		Oil Displacement Per Stroke (in <sup>3</sup> )		Maximum Handle Effort	Piston Stroke (in)	Dimensions (in)										Weight	
			1st Stage	2nd Stage	1st Stage	2nd Stage			A	B	C	D	E	G	H	J	L	M		N
ZHP-19	1	19	N/A	10,000	N/A	0.19	181	0.50	8.25	11.00	1.75	1.50	2.19	3/8" NPT	12.00	1.13	6.13	1.88	4.38	13
ZHP-20	1	20	N/A	10,000	N/A	0.19	181	0.47	8.31	13.00	0.81	1.50	2.13	3/8" NPT	12.00	1.13	5.13	0.19	3.50	11
ZHP-29	1	29	N/A	10,000	N/A	0.19	102	0.50	15.88	19.25	1.75	1.75	2.19	3/8" NPT	20.00	1.13	6.00	2.25	4.38	16
ZHP-30	2	30	N/A	10,000	0.81	0.19	102	0.47	15.63	20.50	0.81	1.50	2.13	3/8" NPT	20.13	1.13	4.50	0.75	4.75	13
ZHP-41	1	42	N/A	10,000	N/A	0.19	98	0.50	17.38	22.75	1.50	1.38	2.25	3/8" NPT	24.25	1.13	5.25	2.50	5.50	15
ZHP-42	2	42	200	10,000	0.79	0.17	87	1.10	17.38	22.75	1.50	1.38	2.25	3/8" NPT	24.25	1.13	1.25	2.50	5.50	16
ZHP-90	2	90	350	10,000	0.79	0.17	87	1.10	16.73	22.83	1.85	1.77	2.20	3/8" NPT	23.90	1.12	6.50	1.97	5.43	25
ZHP-120	2	120	350	10,000	0.79	0.17	87	1.10	16.73	22.28	1.85	1.77	2.13	3/8" NPT	21.85	1.12	6.90	0.39	5.71	16
ZHP-150	2	150	350	10,000	0.79	0.17	87	1.10	16.73	25.87	1.85	1.77	2.20	3/8" NPT	24.25	1.12	6.69	2.17	5.43	27
ZHP-180	2	183	200	10,000	0.95	0.17	100	1.10	17.16	20.90	1.76	1.87	2.15	3/8" NPT	23.44	1.13	5.54	2.54	5.34	29