

▼ Shown from left to right: P-77, P-80, P-84, P-801, P-39



- Reduced handle effort and ergonomic grip for less operator fatigue
- Two-speed operation for fast and easy operation (except P-39)
- Vent free reservoir eliminates spills
- Quick grip handle allows for easy transport
- Integral reservoir over-pressurization protection
- All steel construction, chrome plated plunger and wiper system for durable, long lasting performance
- 4-way valving on the P-84 and P-464 for operation of double-acting cylinders.

▼ In the absence of a power supply, the P-80 Hand Pump offers a powerful solution.



## The Solution for Tough Jobs



### Two Speed Pumps

Recommended for applications where cylinder plunger must advance rapidly to load contact, and applications where greater oil capacities are required, such as multiple cylinder hook-ups.



### Foot Pump Conversion Kits

Convert your P-39, P-77, P-80 or P-801 to foot power with the **PC-11** Kit. Includes instructions for easy conversion.



### GA45GC Gauge Adaptor

Protect yourself from system overloading by simply ordering one part number for a pre-assembled gauge, adaptor block and coupler.

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### 4-Way Control Valve

**P-84** and **P-464** feature a manual 4-way control valve, designed for use with one double-acting or two single-acting cylinders. For system set-up information:

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Pump Type	Usable Oil Capacity (cm <sup>3</sup> )	Model Number	Pressure Rating <sup>2)</sup> (bar)		Oil Displacement per Stroke (cm <sup>3</sup> )		Max. Handle Effort (kg)
			1 <sup>st</sup> stage	2 <sup>nd</sup> stage	1 <sup>st</sup> stage	2 <sup>nd</sup> stage	
Single	672	<b>P-39</b>	-	700	-	2,46	39
Two-Speed	672	<b>P-77</b>	34	700	16,39	2,46	40
	2200	<b>P-80</b> <sup>1)</sup>	34	700	16,39	2,46	35
	4100	<b>P-801</b>	34	700	16,39	2,46	35
	2200	<b>P-84</b> <sup>3)</sup>	34	700	16,39	2,46	35
	7423	<b>P-462</b>	14	700	126,20	4,75	49
	7423	<b>P-464</b> <sup>3)</sup>	14	700	126,20	4,75	49

<sup>1)</sup> Available as a set, see note on next page.

<sup>2)</sup> Contact Enerpac for applications where operating pressure is less than 10% of pressure rating.

<sup>3)</sup> P84, P-464 is for use with double-acting cylinders.

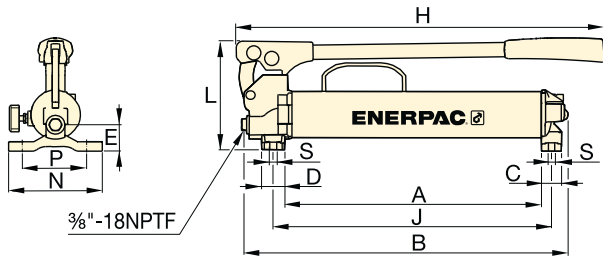
# ULTIMA Steel Hand Pumps



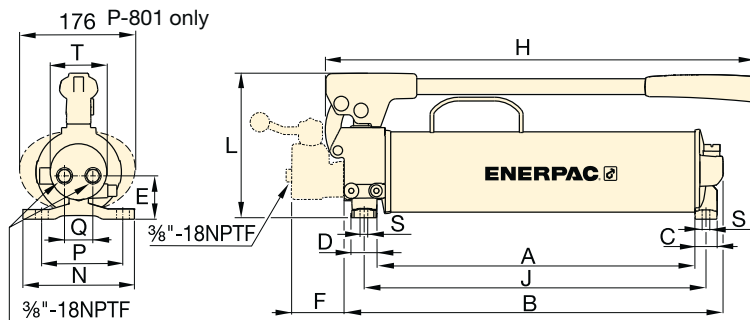
## Speed Chart

To determine how a specific pump will operate your cylinder, see the Pump-Cylinder Speed Chart in the 'Yellow Pages'.

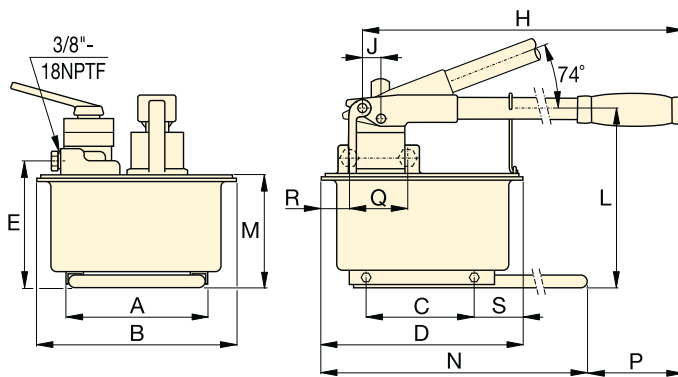
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P-39, P-77



P-80, P-801, P-84



P-462, P-464

## P Series



Reservoir Capacity:  
**672 - 7423 cm<sup>3</sup>**

Flow at Rated Pressure:  
**2,46 - 4,75 cm<sup>3</sup>/stroke**

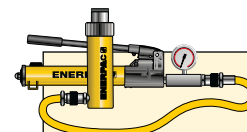
Maximum Operating Pressure:  
**700 bar**



### Extra Capacity Hand Pumps

P-462 and P-464 feature extra large reservoirs and high first-stage flow rate.

These pumps are ideally suited for powering high-capacity cylinders.



### Pump-Cylinder Sets

The P-80 is also available as set (pump, cylinder, gauge, couplers and hose) for your ordering convenience.

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### Cylinder Matching Chart

For help in selecting the correct hand pump for your application, please refer to the Cylinder Matching Chart located in the 'Yellow Pages'.

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Piston Stroke	Dimensions (mm)																Model Number	
	(mm)	A	B	C	D	E	F	H	J	L	M	N	P	Q	R	S		T
25,4	383	480	30	35	37	-	550	416	163	-	140	111	-	-	8,4	-	6,2	P-39
25,4	391	487	30	35	47	-	550	424	163	-	140	111	-	-	8,4	-	7,1	P-77
25,4	428	511	30	35	55	-	579	460	195	-	150	121	42	-	8,4	74	10,7	P-80 <sup>1)</sup>
25,4	428	511	30	35	55	-	579	460	195	-	150	121	42	-	8,4	74	14,1	P-801
25,4	428	510	30	35	55	70	579	460	195	-	150	121	38	-	8,4	74	11,8	P-84 <sup>3)</sup>
38,1	210	308	163	320	195	-	671	25	270	175	650	92	-	-	80	-	27,7	P-462
38,1	210	308	163	320	195	-	671	25	270	175	650	92	89	68	80	-	27,7	P-464 <sup>3)</sup>