

# Ultra-High Pressure Hand Pumps

▼ Shown from left to right: 11-100, P-2282



- Two-speed operation on the P-2282 allows for faster fill operation, reducing cycle times for many testing applications
- 303 Stainless steel construction on the 11-100 and 11-400 models enable use with many different fluids, such as distilled water, diesters, silicones, soluble oils and petroleum
- Large release knob for improved control of pressure release
- Outlet ports are 3/4"-16 cone for 2800 bar rating
- Ultra-high pressure fittings feature all stainless steel construction except adaptor 41-366 which features nickel plated carbon steel construction.

## Ultra-High Pressure up to 2800 bar



### 2-Way Shut-Off Valve Model Nr. 72-750

For 2800 bar applications requiring a shut-off valve or gauge snubber.

Made of 318 Stainless Steel and utilizing .38 inch cone fittings, it is the perfect selection for use with your ultra-high pressure hand pump.

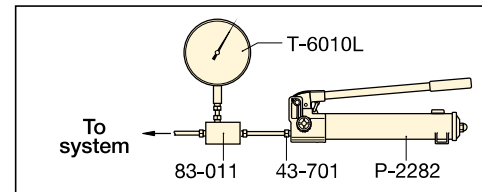


### Test System Gauges

Ideal for monitoring pressure in your hydraulic circuit.

Test System Gauges, such as the **T6010L**, are available with cone threads or NPTF threads and a variety of pressure ranges.

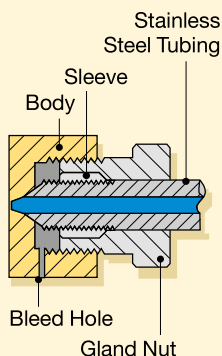
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▲ Typical Test System

### Cone Seal

Stainless Steel High Pressure fittings seal on a 'cone' surface and do not require pipe sealer. The Gland Nut holds the sleeve and tubing tight against the cone surface to provide a 2800 bar seal.



Pump Type	Usable Oil Capacity (cm <sup>3</sup> )	Model Number	Pressure Rating * (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	
Two-Speed	983	P-2282	13	2800	16,22	0,61	48,1
Single-Speed	737	11-100	-	700	-	2,49	54,4
	737	11-400	-	2800	-	0,62	54,4

\* Contact Enerpac for applications where operating pressure is less than 10% of operating pressure.

# Ultra-High Pressure Hand Pumps

## ▼ Optional Ultra-High Pressure Fittings and Tubings

Description	Connection	Model Nr.
<b>2800 bar</b>		
Gland Nut Plug	.38" cone	43-001
Elbow	.38" cone	43-200
Tee	.38" cone	43-300
Gauge Tee	.38" cone side/ .25" cone gauge port	43-301
Gauge Adaptor	.38" cone side/ .25" cone gauge port	83-011
Coupling	.38" cone	43-400
Cross	.38" cone	43-600
Gland Nut with Sleeve	.38" cone	43-701
Gauge Connector	.25" cone	43-704
Tubing	100 mm tube, O.D. .38" * 200 mm tube, O.D. .38" * 300 mm tube, O.D. .38" *	45-116 45-126 45-136
<b>700 bar only</b>		
Adaptor	.38" F cone to 1/4" M NPTF	41-146
	.38" F cone to 3/8" M NPTF	41-166
Adaptor	.38" F cone to 1/4" F NPTF	41-246
	.38" F cone to 3/8" F NPTF	41-266
Adaptor	.38" M cone to 3/8" F NPTF	41-366

Note: .25" cone fittings use 9/16"-18 threads, 3/8" cone fittings use 3/4"-16 threads.  
\* Actual tubing lengths are 19 mm less than nominal size shown. These dimensions make distance between centers of valves and fittings multiples of 100 mm spaces.

## P 11 Series



Reservoir Capacity:  
**737 - 983 cm<sup>3</sup>**

Flow at Rated Pressure:  
**0,61 - 2,49 cm<sup>3</sup>/stroke**

Maximum Operating Pressure:  
**700 - 2800 bar**



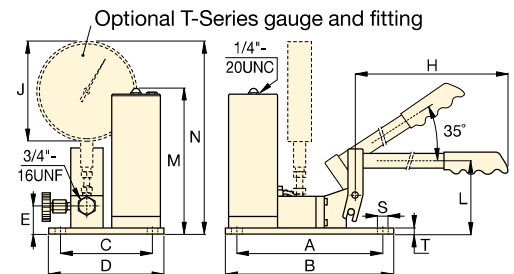
**Ultra-High Pressure pumps DO NOT have an internal safety pressure relief valve.**



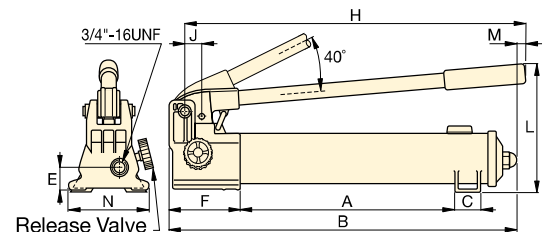
### Stainless Steel Construction

Ultra-high Pressure Fittings feature all stainless steel construction except adaptor 41-366, which features nickel plated carbon steel construction.

11-100  
11-400



P-2282



Piston Stroke	Dimensions (mm)														Model Number
	(mm)	A	B	C	D	E	F	H	J	L	M	N	S	T	
25,4	344	558	35	–	31	133	527	29	228	7	120	–	–	6,4	P-2282
19,8	240	266	151	177	45	–	635	162	114	237	314	7	9	10,0	11-100
19,8	240	266	151	177	45	–	635	162	114	237	314	7	9	10,0	11-400

▼ From left to right: P-142ALSS, P-392ALSS, V-152NV, V-66NV, RC-256NV, RC-106NV, RC-53NV



- Corrosion resistant, nickel-plated valves and cylinders
- Stainless steel pump inserts will not corrode
- Viton® Seals provide heat and chemical resistance
- Anodized aluminum pump reservoirs and plastic encapsulated pump bodies resist wet environments
- Two-speed operation reduces pump handle strokes 78% compared to single-speed pumps
- Pump handles lock for easy carrying.

## RC, P, V Series

Cylinder Capacity:  
**5 - 25 ton**

Stroke:  
**51 - 156 mm**

Maximum Operating Pressure:  
**700 bar**



### Applications



For use in wet environments such as food processing, pulp and paper, mining, construction and applications in high temperature or in welding areas.







### Multifluid Hand Pumps

MP-Series corrosion resistant hand pumps for low pressure filling and high pressure testing applications, suitable for a wide range of fluids.

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	Cylinder Capacity	Stroke	Model Number *	Oil Capacity	Pressure Rating	Collapsed Height	Extended Height	Outside Diameter	
	ton (kN)	(mm)		(cm <sup>3</sup> )	(bar)	(mm)	(mm)	(mm)	(kg)
	5 (45)	76	RC-53NV	50	700	165	241	38	1,5
	10 (101)	51	RC-102NV	78	700	121	175	57	2,3
	10 (101)	156	RC-106NV	225	700	247	403	57	4,4
	25 (232)	156	RC-256NV	528	700	273	431	85	10,0

	Pump Type	Oil Capacity	Model Number *	Pressure Rating	Oil Displacement per Stroke	Port Dimension	Piston Stroke	
		(cm <sup>3</sup> )		(bar)	(cm <sup>3</sup> )	(NPTF)	(mm)	(kg)
	Two Speed	327	P-142ALSS	14 / 700	3,62 / 0,90	1/4"-18	12,7	2,0
		901	P-392ALSS	14 / 700	11,26 / 2,47	3/8"-18	25,4	4,1

	Valve Type	Model Number *	Function	Pressure Rating (bar)	
	Manual Check Valve	V-66NV *	Load holding with cylinders	700	1,8
	Pressure Relief Valve	V-152NV *	Limits system pressure, ± 3% repeatability	55-700	1,6

\* For cylinder details see pages 7-9; for pump details see pages 72-73; for valve details see pages 136-137.