

# Hand Pump

## HYDRAULIC P SERIES

**400 to 1131 cm<sup>3</sup>**  
**reservoir**  
 Two-Speed  
 Single-Acting

Pump automatically shifts into the high pressure lift stage upon contact with the load.

700 bar



P59L

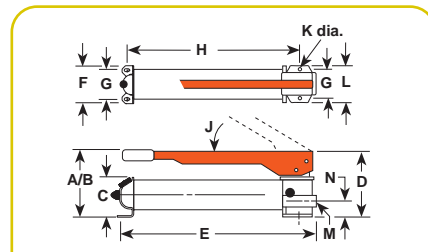
- All metal construction won't burn through in welding environments.
- Two-speed reduces handle strokes so you work faster and easier.
- Formed metal handle provides less flex, and reduces operator fatigue.
- Convenient fill port allows pumps to be filled in a horizontal or vertical position.
- Relief valve inboard of check valve prevents loads from drifting down.
- Large valve knob gives added control for slowly metering loads down.

### P19L/P59L

- More usable oil volume — use with larger or longer stroke cylinders.
- True unloading valve set for 850 PSI (59 Bar) provides more efficiency and lower handle force.
- Link design reduces handle effort by 40%.
- Durable aluminum reservoir, manifold, and end cap.
- Ergonomic non-slip handle grip provides more comfort.
- Spring loaded handle lock incorporated into handle.



P19



Pump No.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	H (mm)	J (deg.)	K (mm)	L (mm)	M (in)	N (mm)
P19	139,7	371,5	73,0	115,9	347,7	101,6	82,6	281,0	53°	7,9	101,6	<sup>3</sup> / <sub>8</sub> -NPTF	35,7
P19L	141,5	—	—	—	347	104,1	82,6	281,0	40°	7,9	104,1	<sup>3</sup> / <sub>8</sub> -NPTF	—
P59	177,8	533,4	88,9	127,0	584,2	108,0	82,6	501,7	38°	7,9	120,7	<sup>3</sup> / <sub>8</sub> -NPTF	41,3
P59L	177,6	—	—	—	533,4	120,7	82,6	501,7	50°	7,9	120,7	<sup>3</sup> / <sub>8</sub> -NPTF	—
P59F	88,9	425,5	88,9	152,4	590,6	108,0	82,6	514,4	—	7,9	114,3	<sup>3</sup> / <sub>8</sub> -NPTF	42,9

For Use With	Order No.	Volume & Pressure					Handle Effort (kg)	Reservoir		Oil Port (in)	Product Weight (kg)
		Speed	Volume per Stroke (cm <sup>3</sup> )		Maximum Pressure (bar)			Oil Capacity (cm <sup>3</sup> )	Usable Oil Capacity (cm <sup>3</sup> )		
Single Acting	P19	2	5.0	1.2	22	700	45	400	328	<sup>3</sup> / <sub>8</sub> -NPTF	3.0
Cylinders*	P19L	2	4.1	0.9	70	700	37	475	443	<sup>3</sup> / <sub>8</sub> -NPTF	2.3
	P59	2	10.9	2.6	22	700	66	902	738	<sup>3</sup> / <sub>8</sub> -NPTF	7.8
	P59L	2	12	2.6	59	700	44	1131	1082	<sup>3</sup> / <sub>8</sub> -NPTF	4.1
	P59F	2	9.0	2.1	22	700	55	902	738	<sup>3</sup> / <sub>8</sub> -NPTF	6.4

LP = Low Pressure  
 HP = High Pressure

\*Pump includes 2-Way Valve

