

Hand Pump

HYDRAULIC P SERIES

197 to 902 cm³ Reservoir
Single-Speed
Single-Acting

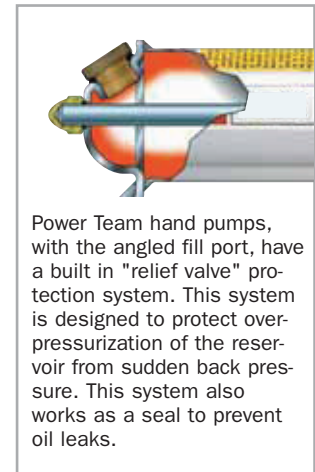
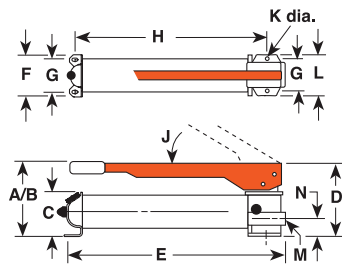
Best suited for applications where there is little or no free travel.

PUMPS

- All metal construction, won't burn through in welding environments.
- Formed metal handle provides less flex, and reduces operator fatigue.
- Convenient fill port on P23 and P55 allows pumps to be filled in a horizontal or vertical position.
- Fill cap seal acts as safety valve preventing over-pressurizing of reservoir.
- Relief valve inboard of check valve prevents loads from drifting down.
- Large valve knob gives added control for slowly metering loads down.
- Carrying handle (P55).



P55 Hand Pump on an air-craft towbar



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)
P12	101,6	—	—	101,6	342,9	85,7	55,6	—	45°	4,8	85,7	3/8-NPTF	28,6
* P23	158,8	330,2	88,9	141,3	346,1	108,0	82,6	261,6	38°	7,9	120,7	3/8-NPTF	41,3
* The P23 pump maximum pressure is 210 bar only.													
P55	165,1	533,4	88,9	141,3	584,2	108,0	82,6	501,7	38°	7,9	120,7	3/8-NPTF	41,3

For Use With	Order No.	Volume & Pressure					Handle Effort (kg)	Reservoir		Oil Port (in)	Product Weight (kg)
		Speed	Volume per Stroke (cm ³)	Maximum Pressure (bar)	Oil Capacity (cm ³)	Usable Oil Capacity (cm ³)					
Single Acting	P12	1	—	1,1	—	700	34	197	148	3/8-NPTF	2,6
	P23	1	—	2,6	—	210	32	390	333	3/8-NPTF	5,5
Cylinders*	P55	1	—	2,6	—	700	66	902	738	3/8-NPTF	7,2

LP = Low Pressure
HP = High Pressure

* Pump includes 2-Way Valve

Hand Pump

HYDRAULIC P SERIES

400 to 1131 cm³ Reservoir
Two-Speed
Single-Acting

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

PUMPS



P59



P59F

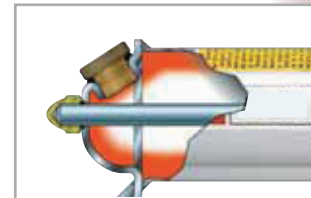
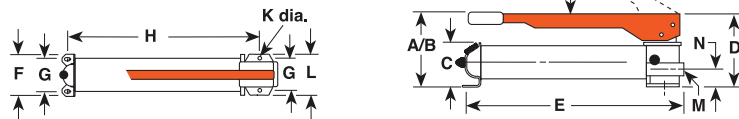
700 bar

- 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 allow 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.
- Carrying handle (except P19).



Link design reduces handle effort by 40%

P59L
10,000 psi



Power Team hand pumps, with the angled fill port, have a built in "relief valve" protection system. This system is designed to protect over-pressurization of the reservoir from sudden back pressure. This system also works as a seal to prevent oil leaks.

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	³ / ₈ -NPTF	35,7
P19L	141,5	—	—	—	347	104,1	82,6	281,0	40°	7,9	104,1	³ / ₈ -NPTF	—
P59	177,8	533,4	88,9	127,0	584,2	108,0	82,6	501,7	38°	7,9	120,7	³ / ₈ -NPTF	41,3
P59L	177,6	—	—	—	533,4	120,7	82,6	501,7	50°	7,9	120,7	³ / ₈ -NPTF	—
P59F	88,9	425,5	88,9	152,4	590,6	108,0	82,6	514,4	—	7,9	114,3	³ / ₈ -NPTF	42,9

For Use With	Order No.	Speed	Volume & Pressure				Handle Effort (kg)	Reservoir		Oil Port (in)	Product Weight (kg)
			Volume per Stroke (cm ³)	Maximum Pressure (bar)	Oil Capacity (cm ³)	Usable Oil Capacity (cm ³)					
* Single Acting	P19	2	5,0	1,2	22	700	45	400	328	³ / ₈ -NPTF	3,0
	** P19L	2	4,1	0,9	70	700	37	475	443	³ / ₈ -NPTF	2,3
Cylinders	P59	2	10,9	2,6	22	700	66	902	738	³ / ₈ -NPTF	7,8
	** P59L	2	12	2,6	59	700	44	1131	1082	³ / ₈ -NPTF	4,1
	^^ P59F	2	9,0	2,1	22	700	55	902	738	³ / ₈ -NPTF	6,4

LP = Low Pressure
HP = High Pressure

* Pump includes 2-Way Valve

^^ Foot-operated

** Lightweight Aluminium Hand Pumps

Hand Pump

HYDRAULIC P SERIES

2,5 l to 9,5 l Reservoir

Two-Speed Single- and Double-Acting

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

PUMPS



P300 hand pump and 10 ton cylinders used for a vehicle lift.

- Rugged all metal construction for strength and durability that won't burn through in welding environments.
- Heavy-duty, formed metal handle provides less flex, and less operator fatigue than round or composite handles.
- Convenient fill port allows pumps on P157 and P159 to be filled in a horizontal or vertical position.
- Fill cap seal acts as safety valve to prevent over-pressurizing of reservoir.
- Relief valve inboard of check valve prevents loads from drifting down.
- Large valve knob gives added control for slowly metering loads down.
- Carrying handle.



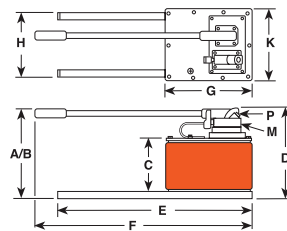
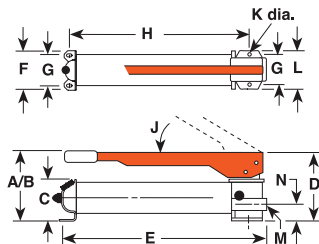
P157/P159



P300



P460



FK59
FK159B

Foot pump conversion kit

No. FK59 - Foot pump conversion kit for use on P55/P59 pumps. Wt., 2,7 kg

No. FK159B - Foot pump conversion kit for use on P157/P159 and P300/P300D pumps. Wt., 2,7kg.

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)	P
P157/P159	197	521	123,8	175	578	98,4	76,2	502	39°	7,9	95,3	3/8-NPTF	57,2	—
P300	210	533	114,3	175	575	215,9	190,5	526	39°	7,9	95,3	3/8-NPTF	57,2	—
P460	283	787	171,5	289	610	743	279,4	229	80°	241,3	—	3/8-NPTF	—	1/4 NPTF

For Use With	Order No.	Speed	Volume & Pressure		Maximum Pressure (bar)		Reservoir Handle Effort (kg)	Oil Capacity (cm ³)	Usable Oil Capacity (cm ³)	Oil Port (in)	Product Weight (kg)
			Volume per Stroke (cm ³)	Stroke (cm ³)	LP	HP					
* Single-Acting Cylinders	P157	2	10,7	2,6	97	700	64	2491	2245	3/8-NPTF	11,8
	P159	2	42,6	2,6	22	700	64	2491	2245	3/8-NPTF	11,8
	P300	2	42,6	2,6	22	700	64	5.700	5081	3/8-NPTF	25,1
	P460	2	120,5	4,8	22	700	41	9.500	7539	3/8-NPTF	24,9
** Double-Acting Cylinders	P157D	2	10,7	2,6	97	700	64	2491	2245	3/8-NPTF	13,1
	P159D	2	42,6	2,6	22	700	64	2491	2245	3/8-NPTF	12,7
	P300D	2	42,6	2,6	22	700	64	5.700	5081	3/8-NPTF	25,9
	P460D	2	120,5	4,8	22	700	41	9.500	7539	3/8-NPTF	26,3

LP = Low Pressure
HP = High Pressure

* Pump includes 2-Way Valve
** Pump includes 4-Way Valve

The following guidelines are for general lifting and construction applications. Hydraulic tools, pullers and presses may fall outside these

recommendations. Always check to see that the pump's "usable reservoir capacity" exceeds the cylinder(s) oil capacity.

Pump Capacity SELECTION CHART

Choosing the Right Pump

Generally
Recommended







Marginal
Check Requirements



Not Recommended for
most applications



700 bar Maximum
Working Pressure

Page No.	PRESSURE STAGE	Cylinder Capacity (Tons)														
		5	10	15	20	25	30	55	75	100	150	200	300	400	500	
Hand Pumps* 	34 P12‡	Single	14	32	44	65	72	93								
	34 P55‡	Single	6	14	19	28	31	40	71							
	35 P19/ P19L	Low	4	8	10	15	17	21								
		High	13	30	42	59	68	86								
	35 P59F	Low	1,8	4,1	5,7	8	9	12	20	29						
		High	8	17	24	3	48	50	85	122						
	35 P59(L)‡	Low	1,5	3,2	4,7	7	7,7	9,7	16,7	23,9						
	36 P157‡	High	6	14	19	28	31	40	71	101						
	36 P159‡	Low	,5	1	1,3	1,9	2,2	2,8	5	7	9	13	18			
	36 P300‡	High	7	15	21	30	34	43	77	110	143	200	250			
36 P460‡	Low	,1	,3	,6	,6	,7	,9	1,5	2,2	2,8	4,2	5,6	8,4	11,2		
	High	3,3	7,7	9	14	17,5	22	37	55	71	105	143	213	284		
Electric/ Hydraulic Pumps† 	42 PE10	Low	,5	1,2	1,6	2,2	2,6	3,2	5,5							
		High	6	13,4	18,9	27	31	39	66,2							
	42 PE17‡	Low	,2	,5	,7	,9	1,1	1,4	2,3	3,3	4,3	6,5	8,7			
		High	3,5	7,9	10,9	16	18	23	39	56,3	73	109	146			
	43 PE18	Low	,4	,8	1,2	1,6	1,8	2,3	3,9	5,7	7,3	10,8	14,6	21,9	29,2	
		High	3,3	7,5	10,3	15	17	21	37	53	69	102	136	207	276	
	44 PE21‡	Low	,2	,5	,7	1,0	1,1	1,4	2,5	3,6	4,6	6,8	9,2	13,8	18,4	
		High	2,8	6,4	9	13	15	19	32	45,5	59	88	118	177	236	
	PED25	Low	,2	,4	,6	,9	1,0	1,3	2,2	3,2	4,1	6,1	8,3	12,0	15,7	19,9
		High	2,4	5,4	7,5	10,6	12,4	15,6	26,5	38,2	49,5	73,6	99,1	144,3	188,5	238,6
	PE30‡	Low	,2	,4	,6	,9	1	1,3	2,2	3,2	4,1	6				
		High	2	4,5	6	9	10	13	22	32	41	60				
	45 PE46‡	Low	,1	,3	,4	,5	,6	,7	1,3	1,8	2,4	3,5	4,7	7,2	9,6	
		High	1,3	2,9	4,1	5,9	6,8	8,6	14	22	28	42	56	84	112	
	46-47 PE55‡	Low	,1	,2	,3	,4	,4	,6	,9	1,4	1,8	2,6	3,5	5,4	7,2	
High		1,1	2,4	3,4	4,8	5,6	7,1	12	17,8	23	34	45	69	92		
48 PQ60	Low	,1	,2	,3	,4	,4	,5	,9	1,3	1,7	2,5	3,4	5,1	6,8	8,5	
	High	1	2,2	3,3	4,4	5,2	6,5	11	16,2	21	31	41	63	84	105	
49 PQ120	Low	,1	,2	,3	,4	,4	,5	,9	1,3	1,7	2,5	3,4	5,1	6,8	8,5	
	High	,5	1,1	1,6	2,2	2,6	3,2	5,5	7,7	10	15	21	30	40	50	
50 PE400	Low	,1	,1	,2	,2	,3	,3	,6	8	1	1,5	2,1	3	4	5	
	High	,1	,3	,4	,6	,7	,9	1,6	2,2	2,9	4,4	5,9	8,7	11,6	14,5	
Air/Hydraulic Pumps† 	38-39 PA6‡	Single	10	22,4	31	44,4	51,3	65,2	-	-	-	-	-	-	-	
	37 PA9‡	Single	10	22,4	31	44,4	51,3	65,2	-	-	-	-	-	-	-	
	40 PA17‡	Low	,2	,5	,7	,9	1,1	1,4	2,3	3,3	4,3	6,5	8,7	-	-	
		High	3,5	7,9	10,9	16	18	23	39	56	73	109	146			
	41 PA46‡	Low	,1	,3	,4	,5	,6	,7	1,3	2	2,4	3,5	4,7	7,2	9,6	
High		1,3	2,9	4,1	5,9	6,8	8,6	14	22	28	56	42	84	112		
41 PA55‡	Low	,1	,3	,4	,6	,7	,9	1,5	2,2	2,8	4,1	5,5	8,4	11,2		
	High	1,1	2,4	3,4	4,8	5,6	7,1	12	18	23	34	45	69	92		
Gas/Hydraulic Pumps† 	51 PG30	Low	,3	,7	1	1,3	1,6	2	3,3	4,8	6,2	9,3	12,4	18,1	-	
		High	2	4,5	6,3	8,9	10,3	13	22	31,8	41,3	61,4	83	121	-	
	51 PG55‡	Low	,1	,3	,4	,6	,7	,8	1,4	2	2,6	3,9	5,2	7,6	9,9	12,5
		High	1,1	2,5	3,5	4,9	5,6	7,1	12,1	17,3	22,5	33,5	45	66	86	109
	52-53 PG120‡	Low	,1	,3	,4	,6	,7	,8	1,4	2	2,6	3,9	5,2	7,6	9,9	12,5
		High	,5	1,0	1,5	2,0	2,4	3,0	5,1	7,3	9,5	14,2	19,1	27,8	36,3	46,0
52-53 PG400	Low	,1	,1	,2	,2	,3	,3	,6	,8	1,0	1,5	2,0	3,0	3,8	4,9	
	High	,2	,3	,5	,7	,8	1,0	1,7	2,4	3,1	4,6	6,2	9,0	11,8	15,0	

‡ Some Power Team pumps are available in special configurations not listed in this catalog. Power Team can "Assemble to order" pumps with special seals, voltages, valves, relief valve settings, etc. For your special requirements please consult your local distributor or the Power Team factory.

* Hand Pumps = Number of strokes required to move piston 25,4 mm.

† Air, Electric and Gasoline Engine/Hydraulic pumps = Number of seconds required to move piston 25,4 mm.