P SERIES

DURAPAC

MANUALLY OPERATED HAND PUMPS

D

HYDRAULIC PUMPS & POWER UNITS

THE **P-SERIES** MANUAL HAND PUMPS OFFER A WIDE CHOICE OF STEEL AND ALUMINUM BODIED MODELS.

Ideally suited to applications where portable manual hydraulic power is required. All models feature low handle effort for easy operation and are engineered for demanding industrial applications. Models are available to operate single and double acting cylinders and tools. All P-Series hand pumps include a factory set safety pressure relief valve and come pre-filled with hydraulic oil.

SPECIFIC MODEL ADVANTAGES

- Drop forged pump head on models **P-170 and P-270** for superior durability
- Unique oil reservoir breather incorporating a pressure relief valve to guard against accidental over pressurization of the oil reservoir on models **P-2200, P-2200D and P-2260**
- Sealed bladder reservoir design on models **P-235A** and **P-235AT** allows operation in any position
- Twin outlet design pump head incorporating two needle valves on model **P-235AT**
- 40,600 psi working pressure model **P-2100H** can be used for bolt tensioning, bearing removal and high pressure testing

OIL CAPACITY RANGE
21.4 - 481 in^3
1ST STAGE FLOW RANGE
0.19 - 6.90 in^3
MAXIMUM OPERATING PRESSURES
3,480 / 10,150 / 40,600 psi

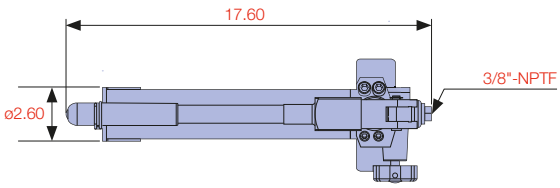
Model Number	Usable Oil (in^3)	Pressure Stage	Cylinder Capacity (ton)											
			5	10	15	20	25	30	50	75	100	150	200	250
P-235	21.4	1st	0.45	0.19	0.14	0.10	0.09	0.07	0.04	-	-	-	-	-
		2nd	0.07	0.03	0.02	0.02	0.02	0.01	0.01	-	-	-	-	-
P-235A	21.4	1st	0.25	0.11	0.08	0.06	0.05	0.04	-	-	-	-	-	-
		2nd	0.04	0.02	0.02	-	-	-	-	-	-	-	-	-
P-235AT	21.4	1st	0.25	0.11	0.08	0.06	0.05	0.04	-	-	-	-	-	-
		2nd	0.04	0.02	0.02	-	-	-	-	-	-	-	-	-
P-235L	21.4	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	0.06	0.04	0.03	-	-
		2nd	0.18	0.08	0.06	0.04	0.04	0.03	0.02	0.02	0.01	0.01	-	-
P-250	30.6	1st	0.45	0.19	0.14	0.10	0.09	0.07	0.04	-	-	-	-	-
		2nd	0.07	0.03	0.02	0.02	0.02	0.01	0.01	-	-	-	-	-
P-170	42.8	1st	0.20	0.09	0.06	0.05	0.04	0.03	-	-	-	-	-	-
P-270	42.8	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	0.06	0.04	0.03	-	-
		2nd	0.18	0.08	0.06	0.04	0.04	0.03	0.02	0.02	0.01	0.01	-	-
P-290	55.0	1st	0.80	0.35	0.25	0.18	0.15	0.12	0.07	0.05	0.04	0.02	-	-
		2nd	0.18	0.08	0.06	0.04	0.04	0.03	0.02	0.02	0.01	0.01	-	-
P-2100A	61.1	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	-	-	-	-	-
		2nd	0.15	0.07	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	-	-
P-2100H	61.1	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	-	-	-	-	-
		2nd	0.04	0.02	0.02	0.01	0.01	0.01	0.01	-	-	-	-	-
P-2200	122.1	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	0.06	0.04	0.03	-	-
		2nd	0.18	0.08	0.06	0.04	0.04	0.03	0.02	0.02	0.01	0.01	-	-
P-2200A	122.1	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	0.06	0.04	0.03	-	-
		2nd	0.15	0.07	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	-	-
P-2200AD	122.1	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	0.06	0.04	0.03	-	-
		2nd	0.15	0.07	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	-	-
P-2200D	122.1	1st	0.82	0.36	0.26	0.19	0.16	0.13	0.08	0.06	0.04	0.03	-	-
		2nd	0.18	0.08	0.06	0.04	0.04	0.03	0.02	0.02	0.01	0.01	-	-
P-2260	158.7	1st	1.89	0.82	0.59	0.42	0.36	0.28	0.17	0.12	0.10	0.06	0.04	-
		2nd	0.19	0.09	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01	-
P-2800	488.2	1st	7.12	3.08	2.20	1.58	1.34	1.06	0.63	0.44	0.34	0.23	0.16	0.13
		2nd	0.26	0.12	0.08	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01
P-2800D	488.2	1st	7.12	3.08	2.20	1.58	1.34	1.06	0.63	0.44	0.34	0.23	0.16	0.13
		2nd	0.26	0.12	0.08	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.01	0.01

in of movement for each stroke of the pump handle

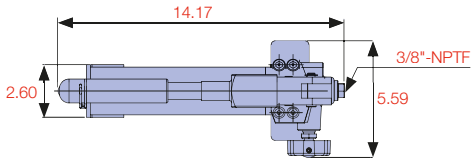
THE **P-SERIES** STEEL BODIED MANUAL HAND PUMP RANGE OFFER A WIDE CHOICE OF TANK AND FLOW OPTIONS WHERE MANUAL PORTABLE HYDRAULIC POWER IS REQUIRED.

All pumps have a low handle effort for ease of operation and large, easy to grip external pressure release knobs. All models (excluding P-235L) incorporate a convenient carry handle. For applications requiring a high 1st stage flow the P-2260 offers 1.83 in^3 per stroke within a compact portable package. Durapac's pump range is a robustly built industry proven performer.

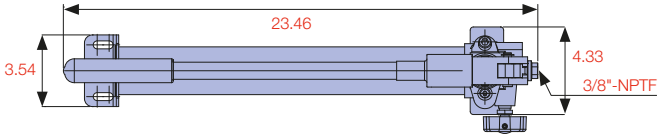
P-250



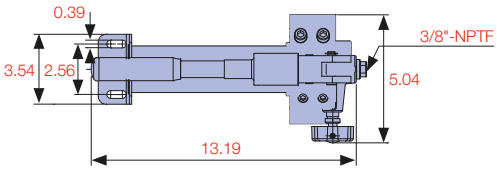
P-235



P-170



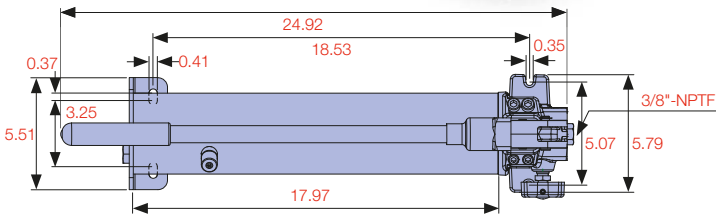
P-235L



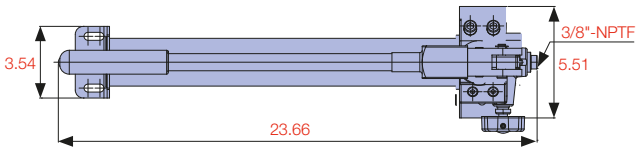
Model Number	Operation	Used with Cylinder	Valve Type	Pressure Rating (psi)		Usable Oil Capacity (in^3)	Oil Volumes per Stroke (in^3)		Oil Port Thread	Max. Handle Effort (lbs)	Weight with Oil (lbs)
				1st Stage	2nd Stage		1st Stage	2nd Stage			
P-170	Single Speed	S/A	2 Way	**10,150**	**-**	**42.7**	**0.19**	**-**	3/8"-NPTF	72.8	14.3
P-235	Two Speed	S/A	2 Way	**200**	**10,150**	**21.4**	**0.43**	**0.06**	3/8"-NPTF	75.0	12.1
P-235L	Two Speed	S/A	2 Way	**200**	**3,480**	**21.4**	**0.79**	**0.17**	3/8"-NPTF	55.1	12.1
P-250	Two Speed	S/A	2 Way	**200**	**10,150**	**30.5**	**0.43**	**0.06**	3/8"-NPTF	66.2	13.7
P-270	Two Speed	S/A	2 Way	**200**	**10,150**	**42.7**	**0.79**	**0.17**	3/8"-NPTF	90.4	16.1
P-290	Two Speed	S/A	2 Way	**203**	**10,150**	**54.9**	**0.76**	**0.17**	3/8"-NPTF	72.8	16.5
P-2200	Two Speed	S/A	2 Way	**200**	**10,150**	**122.0**	**0.79**	**0.17**	3/8"-NPTF	77.2	25.4
P-2200D	Two Speed	D/A	4 Way	**200**	**10,150**	**122.0**	**0.79**	**0.17**	3/8"-NPTF	81.6	32.0
P-2260	Two Speed	S/A	2 Way	**406**	**10,150**	**158.7**	**1.83**	**0.18**	3/8"-NPTF	79.4	29.8

OIL CAPACITY RANGE
21.4 - 158.7 in³
1ST STAGE FLOW RANGE
0.19 - 1.83 in³
MAXIMUM OPERATING PRESSURE
3,480 / 10,150 psi

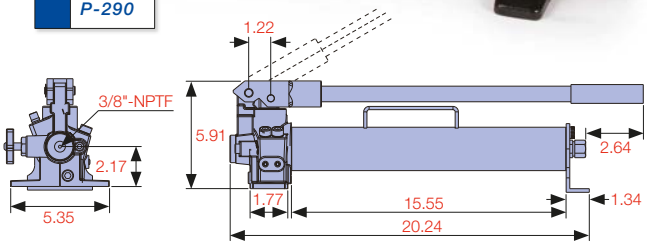
P-2200



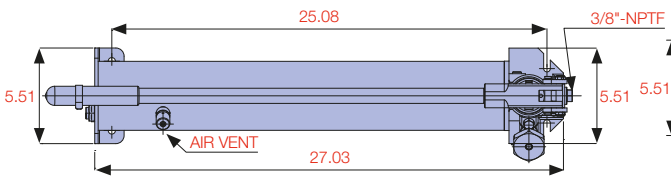
P-270



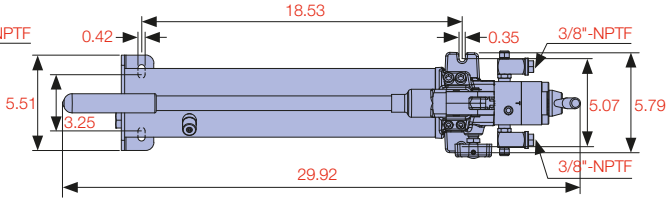
P-290



P-2260

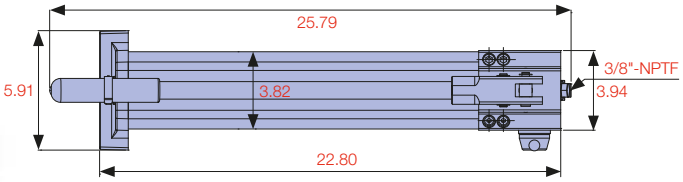


P-2200D



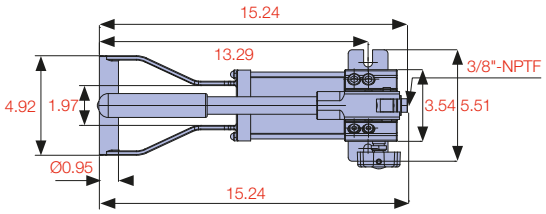
THE **P-SERIES** ALUMINUM BODIED MANUAL HAND PUMP RANGE IS THE ULTIMATE IN LIGHTWEIGHT PORTABLE POWER.

All feature low handle effort for ease of operation and large easy to grip external pressure release knobs. Both the P-235A and P-235AT models feature a sealed bladder reservoir which allows the pump to be used at any operating angle. The P-235AT features a twin outlet design and incorporates two needle valves within the pump head. In applications requiring ultra-high pressure the P-2100H offers a working pressure up to 40,600 psi. Durapac's pump range is a robustly built industry proven performer.

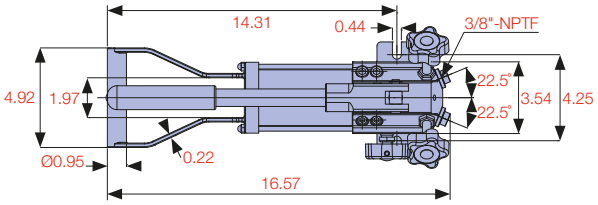


P-2200AD

P-235A

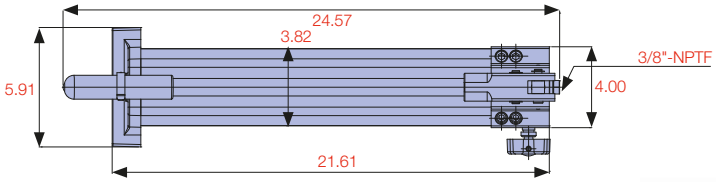


P-235AT



Model Number	Operation	Used with Cylinder	Valve Type	Pressure Rating (psi)		Usable Oil Capacity (in^3)	Oil Volumes per Stroke (in^3)		Oil Port Thread	Max. Handle Effort (lbs)	Weight with Oil (lbs)
				1st Stage	2nd Stage		1st Stage	2nd Stage			
P-235A	Two Speed	S/A	2 Way	**200.2**	**10,150**	**21.4**	**0.24**	**0.04**	3/8"-NPTF	72.8	8.2
P-235AT	Two Speed	S/A	Twin Outlet	**200.2**	**10,150**	**21.4**	**0.24**	**0.04**	3/8"-NPTF	72.8	8.4
P-2100A	Two Speed	S/A	2 Way	**203.1**	**10,150**	**61.0**	**0.79**	**0.14**	3/8"-NPTF	88.2	7.7
P-2100H	Two Speed	S/A	2 Way	**406.1**	**40,600**	**61.0**	**0.79**	**0.04**	3/4"-16UNF	88.2	15.2
P-2200A	Two Speed	S/A	2 Way	**203.1**	**10,150**	**122.0**	**0.79**	**0.14**	3/8"-NPTF	86.0	14.3
P-2200AD	Two Speed	D/A	4 Way	**200.2**	**10,150**	**122.0**	**0.79**	**0.14**	3/8"-NPTF	83.8	16.5

P-2200A



OIL CAPACITY RANGE

21.4 - 122 in³

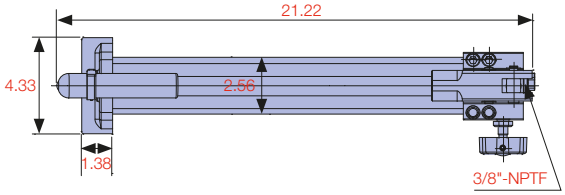
1ST STAGE FLOW RANGE

0.24 - 0.79 in³

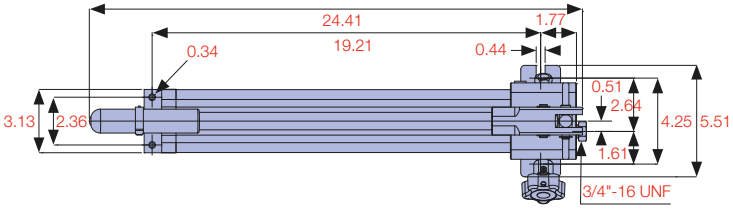
MAXIMUM OPERATING PRESSURE

10,150 - 40,600 psi

P-2100A



P-2100H ULTRA-HIGH PRESSURE 2,800 BAR WP



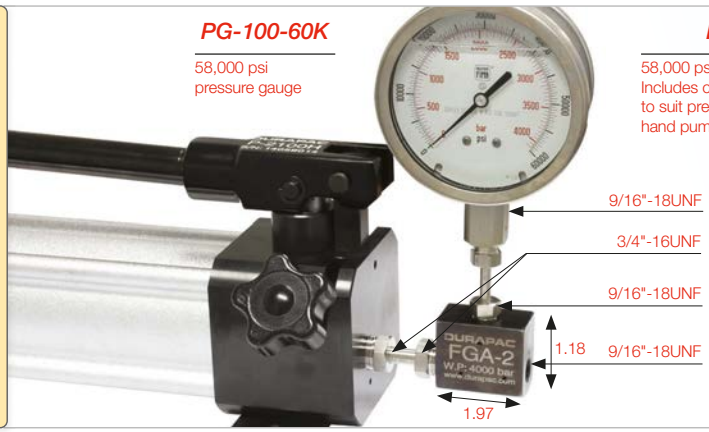
Durapac offer high pressure gauges and a gauge adapter to suit the P-2100H 40,600 psi hand pump

PG-100-60K

58,000 psi pressure gauge

FGA-2

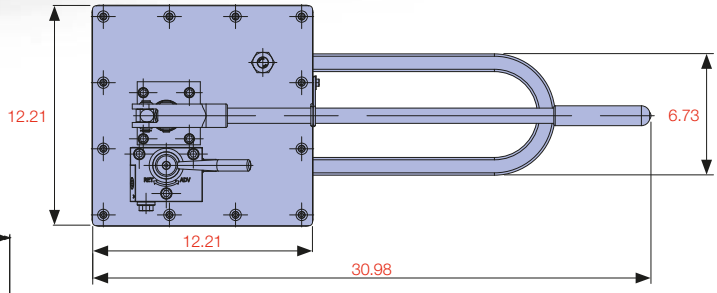
58,000 psi gauge adapter Includes connection nipples to suit pressure gauge and hand pump

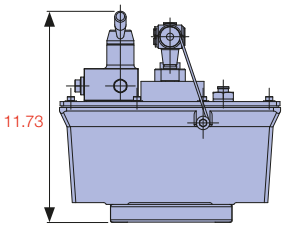


DURAPAC'S **HIGH FLOW MANUAL PUMP RANGE** IS THE ULTIMATE IN HIGH PERFORMANCE TWO SPEED PORTABLE POWER.

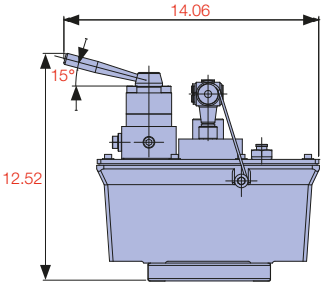
Ideally suited to operate high tonnage cylinders where conventional power sources are not available. Both models feature a first stage high flow of 6.9 in^3 per stroke for fast cylinder advance and retract and a high pressure power flow of 0.24 in^3 per stroke. Available with a 2 way valve for single acting applications or a 4 way valve for double acting applications. Durapac's pump range is robustly built and an industry proven performer.

P-2800D

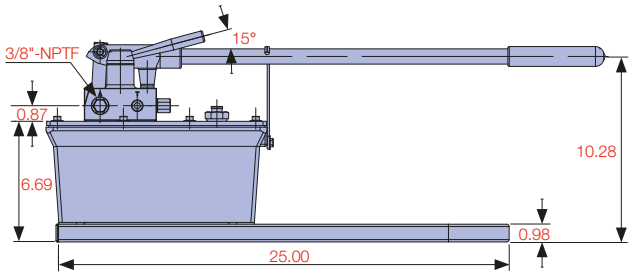




P-2800



P-2800D



Model Number	Operation	Used with Cylinder	Valve Type	Pressure Rating (psi)		Usable Oil Capacity (in^3)	Oil Volumes per Stroke (in^3)		Oil Port Thread	Max. Handle Effort (lbs)	Weight with Oil (lbs)
				1st Stage	2nd Stage		1st Stage	2nd Stage			
P-2800	Two Speed	S/A	2 Way	**399**	**10,150**	**481.0**	**6.90**	**0.24**	3/8"-NPTF	63.9	63.9
P-2800D	Two Speed	D/A	4 Way	**399**	**10,150**	**481.0**	**6.90**	**0.24**	3/8"-NPTF	63.9	66.2

THE **CYLINDER KITS** ARE A CONVENIENT WAY TO PURCHASE REGULARLY REQUESTED CYLINDER AND HAND PUMP COMBINATIONS.

Popular cylinder combinations are available including low profile, aluminum and center-hole. The range comprises 29 kit options that include a perfectly matched manual hand pump and 6 ft hose with coupling. A 2.48 in liquid filled pressure gauge with gauge adapter is included with each kit.

Model	Capacity (ton)*	Stroke (in)	Collapsed Height	Included in Set				
				Cylinder	Hand Pump	Hose	Gauge	Gauge Adapter
Aluminum Cylinder Kits - Single Acting Spring Return								
CKA-302	30	1.97	7.13	AC-302	P-235A	HPS-0602CR	PG-63	FGA-1
CKA-306		5.90	11.06	AC-306	P-2200A	HPS-0602CR	PG-63	FGA-1
CKA-502	50	1.97	7.32	AC-502	P-235A	HPS-0602CR	PG-63	FGA-1
CKA-506		5.90	11.26	AC-506	P-2200A	HPS-0602CR	PG-63	FGA-1
Hollow Piston Cylinder Kits - Single Acting Spring Return								
CKH-121	12	1.66	4.72	RHS-121	P-270	HPS-0602CR	PG-63	FGA-1
CKH-123		2.99	7.24	RHS-123	P-270	HPS-0602CR	PG-63	FGA-1
CKH-202	20	1.93	6.38	RHS-202	P-270	HPS-0602CR	PG-63	FGA-1
CKH-206		6.10	12.05	RHS-206	P-270	HPS-0602CR	PG-63	FGA-1
CKH-302	30	2.52	7.01	RHS-302	P-270	HPS-0602CR	PG-63	FGA-1
CKH-306		6.10	12.99	RHS-306	P-2200	HPS-0602CR	PG-63	FGA-1
Low Profile Cylinder Kits - Single Acting Spring Return								
CKL-50	5	0.24	1.26	RFJ-50	P-270	HPS-0602CR	PG-63	FGA-1
CKL-100	10	0.47	1.69	RFJ-100	P-270	HPS-0602CR	PG-63	FGA-1
CKL-101		1.50	3.46	RLP-101	P-270	HPS-0602CR	PG-63	FGA-1
CKL-200	20	0.43	2.01	RFJ-200	P-270	HPS-0602CR	PG-63	FGA-1
CKL-201		1.77	3.86	RLP-201	P-270	HPS-0602CR	PG-63	FGA-1
CKL-300	30	0.51	2.28	RFJ-300	P-270	HPS-0602CR	PG-63	FGA-1
CKL-302		2.44	4.61	RLP-302	P-270	HPS-0602CR	PG-63	FGA-1
CKL-500	50	0.63	2.60	RFJ-500	P-270	HPS-0602CR	PG-63	FGA-1
CKL-502		2.36	4.80	RLP-502	P-270	HPS-0602CR	PG-63	FGA-1
CKL-1000	100	0.63	3.35	RFJ-1000	P-270	HPS-0602CR	PG-63	FGA-1
CKL-1002		2.24	5.55	RLP-1002	P-2200	HPS-0602CR	PG-63	FGA-1
General Jacking Cylinder Kits - Single Acting Spring Return								
CKG-102	10	2.13	4.76	RG-102	P-270	HPS-0602CR	PG-63	FGA-1
CKG-106		6.14	9.72	RG-106	P-270	HPS-0602CR	PG-63	FGA-1
CKG-252	25	1.97	6.50	RG-252	P-270	HPS-0602CR	PG-63	FGA-1
CKG-254		4.02	8.46	RG-254	P-270	HPS-0602CR	PG-63	FGA-1
CKG-256		6.22	10.75	RG-256	P-270	HPS-0602CR	PG-63	FGA-1
CKG-502	50	2.01	6.93	RG-502	P-2200	HPS-0602CR	PG-63	FGA-1
CKG-504		3.98	8.94	RG-504	P-2200	HPS-0602CR	PG-63	FGA-1
CKG-506		6.26	11.10	RG-506	P-2200	HPS-0602CR	PG-63	FGA-1

* Nominal Cylinder Capacity in ton