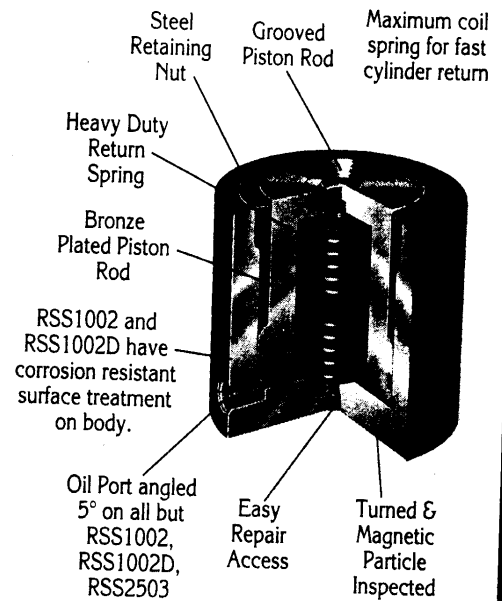
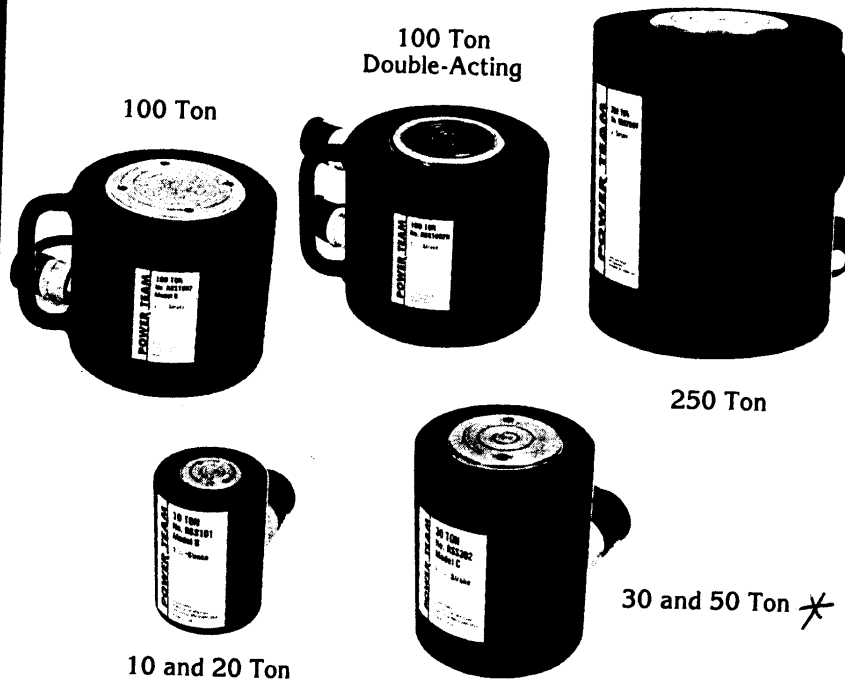


POWER TEAM.

Cylinders



"Shorty" Spring Return Cylinders

All include heavy duty spring for fast cylinder return (except RSS1002D).

Capacities up to 250 tons, strokes up to 3".

All cylinders are in full compliance with ANSI B30.1.

5° angled oil port provides extra clearance.*

RSS1002 & RSS1002D cylinder bodies are manufactured with Power Tech (see pg.167) surface treatment (a special corrosion and abrasion resistant finish). Corrosion resistance is equal to ASTM B117-85 100 hour salt spray. All other RSS cylinder bodies are available with the same corrosion and abrasion resistance through special order. Please consult factory for additional information.

Optional swivel caps available for all cylinders, see page 15.

ORDERING INFORMATION

See current price list for shipping weights.

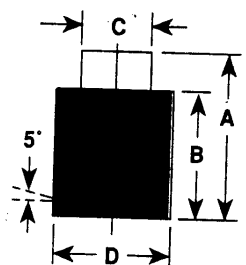
Forcing a gravity return cylinder to retract wastes time and money. The Power Team RSS series of single acting spring return cylinders eliminates that waiting. We've incorporated the return spring and kept the low collapsed height and strokes you need. You get capacities from 10 to 250 tons. They include bronze plated piston rods to resist scoring and corrosion. They can be dead-ended at full capacity. Each RSS (except

RSS1002, RSS1002D & RSS2503) has an angled coupler port (5°) for easy hook-up. Strokes range from 1½" to 3". If you're tired of waiting for your cylinders to retract, look into the RSS series today.

See page 15 for cribbing block sets and swivel caps for use with the "Shorty" cylinders.

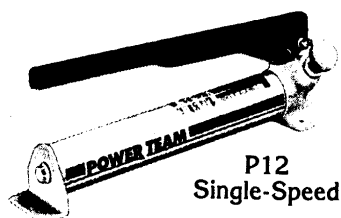
*Oil port angled 5° on all but RSS1002, RSS1002D and RSS2503

Piston Cap Mounting Holes				
Cyl. No.	No.	Size	Depth (in.)	B.C. Dia. (in.)
RSS101	2	#6-32	¼	1.072
RSS202	2	#10-24	¾	1.592
RSS302	2	¼-20	¾	1.862
RSS502	4	¼-20	¾	2.424
RSS1002	4	¾-18	¾	3.558
RSS1002D	NA	-	-	-
RSS2503	NA	-	-	-

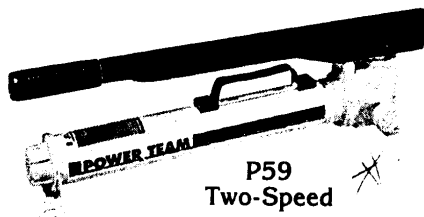


Cylinder Capacity (Tons)		Stroke (in.)	Order No.	A Ex-tended Height (in.)	B Re-tracted Height (in.)	C Piston Rod Dia. (in.)	D Outside Dia. (in.)	Cyl. Eff. Area (sq. in.)	Return Cyl. Eff. Area (sq. in.)	Oil Cap. (cu. in.)	Int. Press. at Cap. (psi)	Tons at 10,000 psi	Oil Port NPTF	Type Piston Return	Prod. Wt. (lbs.)
Push	Pull														
10	—	1 1/2	RSS101	5	3 1/2	1 1/2	2 3/4	2.24	—	3.4	8,943	11.2	3/8"-18	Spring	6
20	—	1 3/4	RSS202	5 1/2	3 3/4	2 5/32	3 9/16	4.43	—	7.7	9,029	22.1	3/8"-18	Spring	9.9
30	—	2 7/16	RSS302	7 1/16	4 5/8	2 1/2	4	6.49	—	15.8	9,243	32.5	3/8"-18	Spring	14.7
50	—	2 3/8	RSS502	7 3/8	5	3 1/8	4 7/8	9.62	—	22.8	10,393	48.1	3/8"-18	Spring	23.2
100	—	2 1/4	RSS1002	7 3/4	5 1/2	4 3/8	6 5/8	19.63	—	44.2	10,186	98.2	3/8"-18	Spring	47.3
100	43	1 1/2	RSS1002D	7 3/16	5 11/16	3 3/4	6 7/8	19.63	8.6	29.4 pist. end 12.9 rod end	10,186	98.2	3/8"-18	Hyd.	54.6
250	—	3	RSS2503	14 7/16	11 7/16	5 1/2	9 7/8	50.22	—	150.6	9,956	251.1	3/8"-18	Spring	220

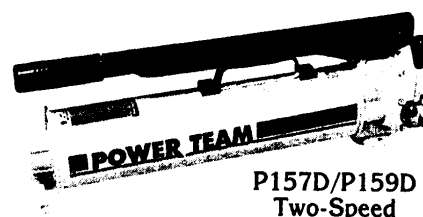
See pages 60-70 for hydraulic accessories.



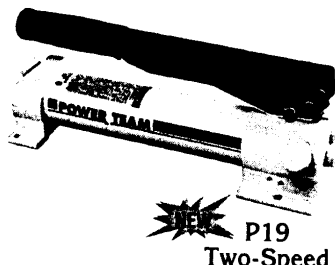
P12
Single-Speed



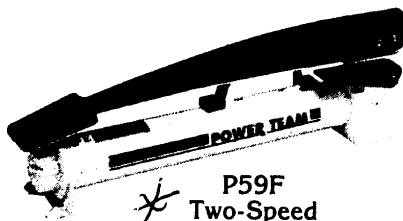
P59
Two-Speed



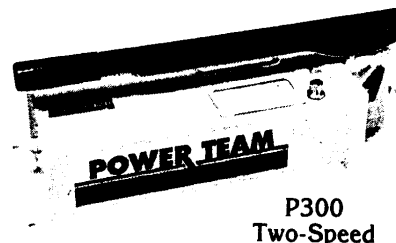
P157D/P159D
Two-Speed



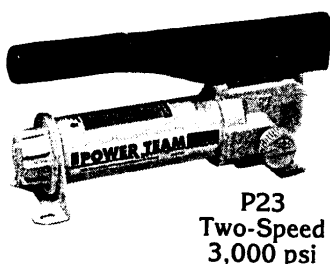
P19
Two-Speed



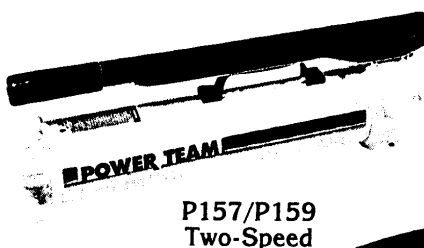
P59F
Two-Speed



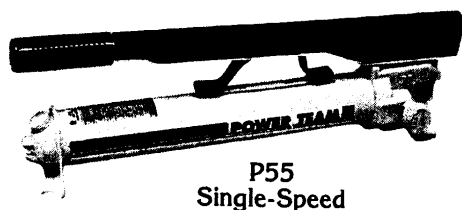
P300
Two-Speed



P23
Two-Speed
3,000 psi

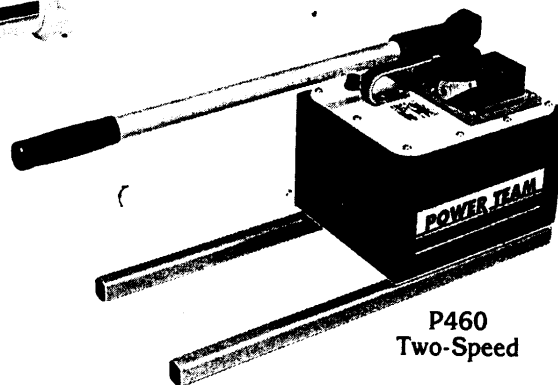


P157/P159
Two-Speed



P55
Single-Speed

U.S. Patent
No. 3,822,966



P460
Two-Speed

Hydraulic Hand Pumps

10,000 psi capacity.

Single or two-speed versions available for use with single or double acting cylinders.

Up to 2½ gallon reservoir capacity.

All develop up to 10,000 psi (except P23) and can operate horizontally or vertically with the pump in the down position (except 460 series). All pumps have an internal safety relief valve. Hydraulic accessories shown on pages 60 thru 70.

P12 Single-Speed Pump

For use with single-acting cylinders. Features a finger-tip control valve for instant release or pumping action. Non-vented reservoir, max. handle effort is 80 lbs.

P19 Two-Speed Pump

For use with single-acting cylinders. All metal construction, max. handle effort is 90 lbs.

P23 Single-Speed Pump

For use with single-acting cylinders. Compact pump similar to P55 with a relief valve setting of 3000 psi non-vented reservoir, max. handle effort is 70 lbs.

P55 Single-Speed Pump

For use with single-acting cylinders. Features a finger-tip control valve for instant release or pumping action. All metal construction, carrying handle and large oil fill port. Non-vented reservoir, max. handle effort is 140 lbs.

P59 Two-Speed Pump

For use with single-acting cylinders, features a finger-tip control valve for instant release or pump-

ing action. All metal construction, carrying handle and large oil fill port. Non-vented reservoir, max. handle effort is 140 lbs.

P59F 2-Speed Foot Pump

For use with single-acting cylinders, features foot or hand operated press-to-release valve. Aluminum body and lever, steel reservoir, carrying handle and large oil fill port. Non-vented reservoir, maximum lever effort is 120 lbs.

P157 & P159 Two-Speed Pumps

For use with single-acting cylinders. All metal construction, carrying handle and large oil fill port. Non-vented reservoir, max. handle effort is 130 lbs.

P157D & P159D Two-Speed Pumps

For use with double-acting cylinders. Same features as P157 & P159 except P157D & P159D have 4-way tandem center valves.

P300 Two-Speed Pump

For use with single-acting cylinders. Same as P159 except it has a large 1½ gal. reservoir with sight gauge.

P300D Two-Speed Pump

For use with double-acting cylinders. Same as P159D except it has a large 1½ gal. reservoir with sight gauge.

P460 Series Two-Speed Pumps

P460 for use with single-acting cyl. All metal construction, carrying handle and large 2½ gal. reservoir. Max. handle effort is 90 lbs.

P460D, same as P460 except for use with double-acting cylinders. Uses 4-way valve No. 9500.