

HIGH-PRESSURE HYDRAULIC TOOLS

2026 EDITION



BUILT FOR THE WORLD'S HARDEST JOBS

WHERE POWER MEETS PURPOSE

PRECISION ENGINEERED PROVEN UNDER PRESSURE

POWERX INTERNATIONAL

POWERXINTERNATIONAL.COM



Since 2001, PowerX International, LLC has been collaborating with its customers to design and supply hydraulic products and systems. PowerX was founded by fluid power industry experts. We have the technical expertise to help guide you through any of your hydraulic system and application needs.

Specializing in mobile and high pressure hydraulic cylinders and pumps, our mission is to work closely with our customers to develop innovative solutions at an affordable price. At PowerX, we believe in Quality, Commitment and Value.

Our products are engineered to last. At PowerX we put all of our products through a rigorous battery of tests to ensure they withstand the toughest environments. Whether you are using them on a construction site, inside a mine, on an oil platform or in your factory, you can rely on PowerX products to perform at a high level every time.

Our manufacturing network and facilities are world class and employ lean manufacturing concepts, are **ISO-9000 compliant**, and are on the cutting edge of machining and automation. This, coupled with our experienced engineering team, allows us to manufacture tight tolerance components to sophisticated hydraulic systems.

Our products meet or exceed the following industry standards: **ASME B30.1, ASME B40.1** and **SAE 100**. All of our products are backed by our lifetime warranty against any manufacturing defects.

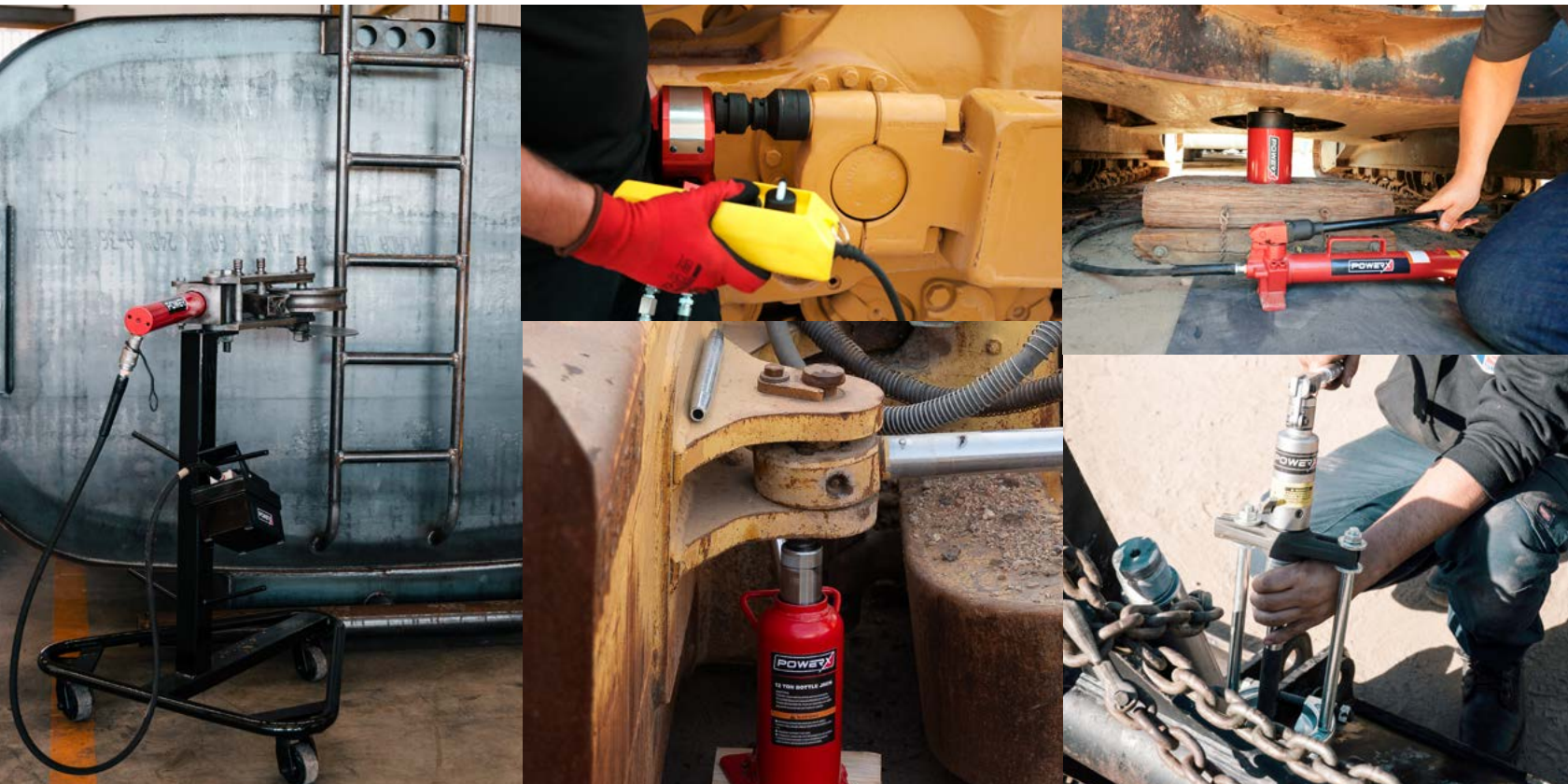


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		Single Acting Cylinders																							
		C5 (ALL STROKES)	C10 (All Strokes)	C15-2	C15-4	C15-6	C15-8	C15-10	C15-12	C15-14	C25-1	C15-2	C25-4	C25-6	C25-8	C25-10	C25-12	C25-14	C25-2	C55-4	C55-6	C55-10	C55-13	C100-6	C100-10
Hand Pump	P21L	●	*	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P43	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P61L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P122	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P122HF	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P213	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P427	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Hydraulic Pump	PA9-37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA9-61	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-98B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-98C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-98R	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-122	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-231	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Electric Pump	PE28x	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PE39x	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PE59x	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

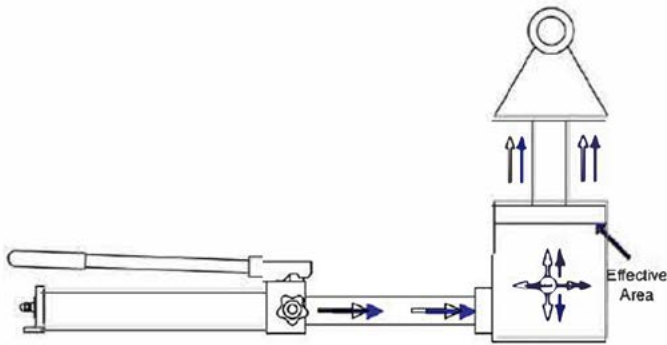
* 10", 12" and 14" strokes are not recommended

		Automotive Cyl.						Flat Cylinders							Low Profile Cyl.					Hole Thru Cylinders								
		CA5-5	C10-6	CA10-10	CA25-6	CA25-10	CA25-14	CF5	CF10	CF20	CF30	CF50	CF75	CF100	CF150	CL10-1	CL20-2	CL30-2	CL50-2	CL100-2	CH20-2	CH30-2	CH30-6	CH60-3	CH60-6	CH100-3	CH100-6	CH100-10
Hand Pump	P37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P43	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P61L	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P122	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P122HF	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P213	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	P427	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Air Hydraulic Pump	PA9-37	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA9-61	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-98B	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-98C	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-98R	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-122	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PA6-231	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Electric Pump	PE28x	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PE39x	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	PE59x	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

		Double Acting Cylinder										
		CD10-6	CD10-10	C10-12	CD30-8	CD30-14	CD55-6	CD55-13	CD80-6	CD80-13	CD100-6	CD100-13
Hand Pump	P122DL	●	●	●	●	●	●	●	●	●	●	●
	P427D	●	●	●	●	●	●	●	●	●	●	●
Air Hydraulic Pump	PA6-122D	●	●	●	●	●	●	●	●	●	●	●
	PA6-231D	●	●	●	●	●	●	●	●	●	●	●
	PA6-460D	●	●	●	●	●	●	●	●	●	●	●
Electric Pump	PE28x	●	●	●	●	●	●	●	●	●	●	●
	PE39x	●	●	●	●	●	●	●	●	●	●	●
	PE59x	●	●	●	●	●	●	●	●	●	●	●

Take the guesswork out of your pump and cylinder combination decisions. Use our simple guide for which pump and cylinder combinations are right for your job.

Generally Recommended	●
Marginal, Check Requirements	●
Not Recommended for Most Applications	●



The basic hydraulic system consists of a cylinder, pump and hose. Pumps can be powered manually, air or electric driven.



Formula for Calculations of Output Force:

$$\frac{\text{psi} \times \text{Cylinder Effective Area} \times \text{No. of Cylinders}}{2,000} = \text{Tons}$$

Formula for Calculations of Lifting Speed:

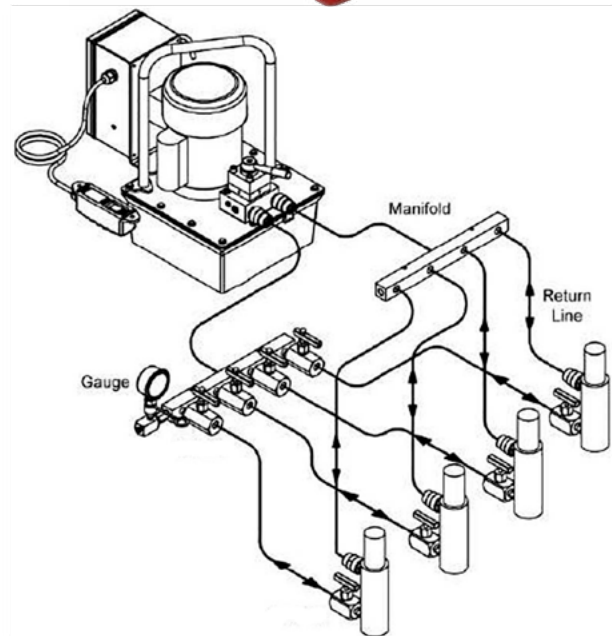
$$\frac{\text{Pump Flow Per Minute}}{\text{Cylinder Effective Area} \times \text{No. of Cylinders}} = \text{in./min. Piston Travel}$$

FLOW: Created by the pump.

PRESSURE: Created by resistance to flow.

FORCE: The amount of force a hydraulic cylinder can generate is equal to hydraulic pressure times the effective area of the cylinder. (Effective area is the surface area of the piston face in square inches.) For multiple cylinder systems, multiply the effective area times the number of cylinders times pressure to determine system force.

SPEED: When using a "power pump" the speed at which your cylinder will lift is determined by dividing the pump's flow by the cylinder's effective area.



Hydraulic systems can be built to meet various application requirements. Creating a circuit which includes a manifold block with integrated needle valves for flow control is one way to individually control cylinders in a multi-point lift system.



ELECTRIC PUMPS

Part Number	Motor Size (hp)	1st Stage Flow (in ³ /min)	2nd Stage Flow (in ³ /min)	Use with Cylinder	Valve Type	Valve Function	Reservoir Capacity
PE283	1.6	550	28	Single Acting	3W3P Manual	Advance Hold Return	2 gal 3 gal 5 gal 10 gal
PE393	1.6	550	39				
PE593	1.6		59				
PE1133	3.0	605	113	Double Acting	4W3P Manual	Advance Hold Return	2 gal 3 gal 5 gal 10 gal
PE284	1.6	550	28				
PE394	1.6	550	39				
PE594	1.6		59				
PE1134	3.0	605	113				

*See next page for pump options

DESCRIPTION

- Designed in the USA. Low noise level meets OSHA standards (83 dba).
- Two stage hydraulic system – 10,000 PSI/700 Bar capacity – first stage gerotor pump, second stage radial piston pump.
- Interchangeable control valves (2, 3, or 4-way) and reservoirs.
- One piece motor and valve mounting plate with an integral high flow unloading system.
- External adjustable relief valve for pre-setting maximum operation pressure (2,000 PSI - 10,000 PSI range).
- Standard motors are universal type, single phase, 12,000 RPM, 115/230 V, 50/60 Hz; (other motors by request).



PE 1134



Pump with Manual Control



Pump with Pendant Control

Our pumps are fully customizable to your desired specifications. Use this matrix as a guide in creating your own custom-built electric pump.

If you are looking for a pump with an output flow of 59 cu.in./min, with a manually operated 3 position 4-way valve, controlled by an on/off switch mounted on the universal electric motor, with a 3-gallon reservoir the model number would be a: **PE594-03MB-16F-C-01**

Other electrical and motor control options are available upon request. For assistance, please call your local PowerX distributor.

		PE	59	4-03	M	B	-	16	F	-	C	-	01		
Pneumatic Powered		PA	Pump											Series	01 Design Series
Electric Powered		PE													
Gas Engine Powered		PG													
28 Cu.In. / Min.		28	High Pressure Displacement **												
39 Cu.In. / Min.		39													
59 Cu.In. / Min.		59													
113 Cu.In. / Min.		113													
No Valving		0-00	Valve												
Port only manifold (no valve)		0-01													
3 way, 2 position		3-02													
3 way, 3 position, tandem center		3-03													
4 way, 3 position, tandem center		4-03													
Manual		M	Valve Actuator												
Solenoid*		S													
Manual load holding		ML													
Solenoid load holding*		SL													
No power cord or controls		A	Electric Controls												
Power cord and switch only, US*		B													
Power cord with single push button pendant, 24VAC pendant control, Remote/Off *†		C													
Power cord (w/o plug) and switch only*		D													
Power cord (w/o plug) and switch with single push button 24VDC pendant control *		E													
Power cord with single push button pendant, 24VDC pendant control, Remote, Off, Run *†		F													
Power cord with dual push button pendant, 24VDC pendant control for 3 positions valves with solenoids *†		G													
Power cord and switch with single push button foot		H													
Power cord and switch with dual push button foot		H2													
Air pendant Control		I													

		</													

TORQUE WRENCHES



Durable, locking hard sided carry case.

Complete Kits Available to Spec

- Torque Wrench w/ Case
- Torque Wrench Pump
- Hydraulic Hoses
- Quick Couplers

**CALL TO BUILD YOUR SETUP
(414) 988-6202**



PRODUCT DETAILS

- Hydraulic Square Drive Torque Wrench for controlled tightening and high-torque breakout.
- Torque Range: 308-3,167 ft-lbs (418-4,294 Nm) or 525-5,480 ft-lbs (712-7,430 Nm).
- 1" or 1.5" Square Drive compatible with standard industrial impact sockets.
- High Strength-to-Weight Ratio reduces operator fatigue during repetitive bolting tasks.
- Uni-Body Aluminum & Alloy Steel Construction for durability in harsh industrial environments.
- Multi-Axis Swivel Coupling improves hose routing and tool positioning in confined spaces.
- Extended Reaction Arm provides secure reaction points on flanges, structural steel, and machinery.
- Anti-Jam Release Lever minimizes downtime and improves jobsite efficiency.
- Pair with our Torque Wrench Pumps on the next page or **build a complete kit**.
- **Certified calibrations available upon request.**



Removable multi-position handle.

Part Number	Drive Size	Torque Range (ft-lbs)	Coupler Connection	Construction	Swivel Coupling	Carry Case	Weight (lbs.)
PXTW-SD3	1" Square	308 - 3,165	1/4" NPTF screw to connect	Uni-body Aluminum & Alloy Steel	Yes	Included	11
PXTW-SD5	1.5" Square	525 - 5,480	1/4" NPTF screw to connect	Uni-body Aluminum & Alloy Steel	Yes	Included	18

TORQUE WRENCH PUMPS



TWP-4SC



DESCRIPTION

- Low noise level that meets OSHA standards.
- Simple adjustable relief valve which can be adjusted anywhere from 2,000 PSI — 10,000 PSI.
- Electric solenoid valve with remote. Allowing shifting of the electric valve with fingertip control, resulting in less operator fatigue and operation at a safer distance.
- Two different tooling capacities:
 - Single tool operation.
 - Up to 4 tool operation.
- Additional package options:
 - A durable cage to protect against harsh operating conditions and ease of transportation.
 - A continuous cooling system with a cage to ensure job completion without overheating and ease of transportation.

Part Number	Motor Description	Pressure Rating (psi)		Pump Capacity (in ³ /min)		Manifold & Tooling Capacity		Reservoir Size (Gal)	Usable Oil (Gal)	Package	Weight (without oil)
		1st Stage	2nd Stage	1st Stage	2nd Stage	2-Port	8-Port				
TWP-1	1.6 HP 115/230 Volts 50/60 Hz 1 PH 12,000 RPM Universal Type	500	10,000	550	39	1 Tool	—	2	1.6	Pump	81 lbs.
TWP-1S										Pump with Safety Cage	88 lbs.
TWP-1SC										Pump with Safety Cage & Cooling System	93 lbs.
TWP-4	1.6 HP 115/230 Volts 50/60 Hz 1 PH 12,000 RPM Universal Type	500	10,000	550	39	—	4 Tool	2	1.6	Pump	81 lbs.
TWP-4S										Pump with Safety Cage	88 lbs.
TWP-4SC										Pump with Safety Cage & Cooling System	93 lbs.

ULTRA HIGH PRESSURE MANUAL PUMPS**P61L-15K****P122L-22K****DESCRIPTION**

- Rugged aluminum alloy construction with low handle efforts.
- Lightweight design for easy portability.
- Pressure relief valves for overload protection.
- Provides ultra high pressure application at a light weight.
- Second stage up to 40,000 psi.



40K, 22K and 15K psi accessories
available on Page 34 and 35



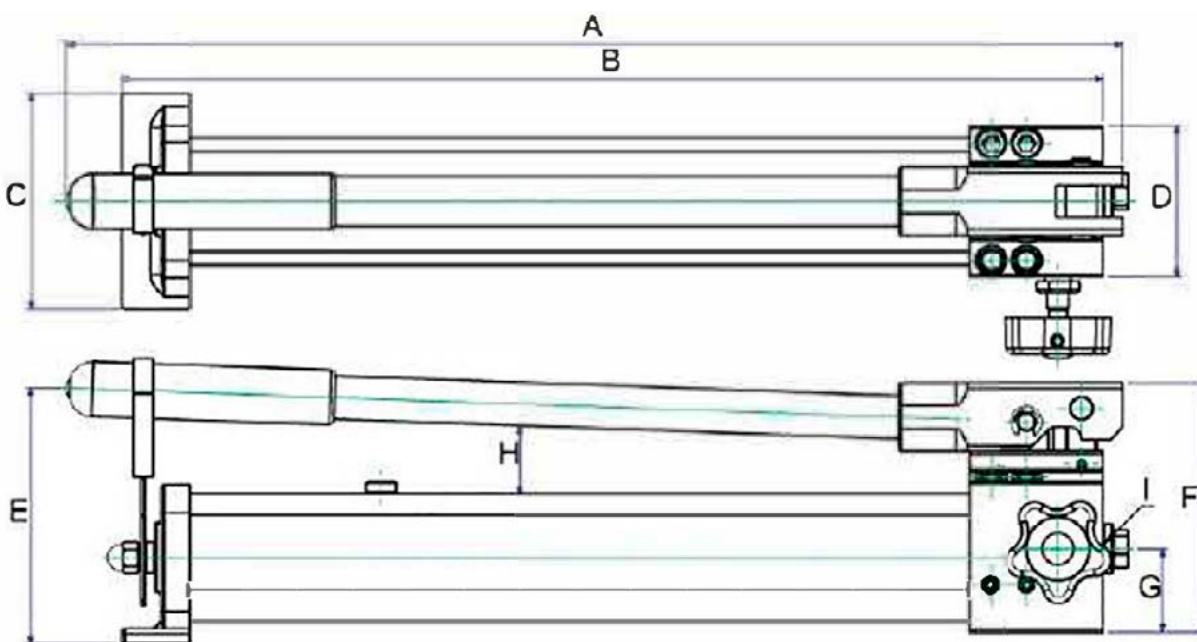
Ultra High Pressure Manual Pumps

ULTRA HIGH PRESSURE MANUAL PUMPS

Part Number	Pressure Rating (psi)		Usable Oil Capacity (in ³)	Reservoir Capacity (in ³)	Oil Volume/Stroke (in ³)		Reservoir Construction	Use with Cylinder	Weight (lbs.)
	1st Stage	2nd Stage			1st Stage	2nd Stage			
P61L-40K	200	40,000	61	61	0.79	0.04	aluminum	S/A	12
P122L-22K		22,000	122	122	0.79	0.06	aluminum	S/A	15
P61L-15K		15,000	46	61	0.79	0.10	aluminum	S/A	8

DIMENSIONS

Part Number	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)
P61L-40K	24.4	19.2	3.1	5.5	4.3	6.2	1.0	1.5
P122L-22K	27.5	24.8	5.9	4.0	6.0	6.2	1.9	1.5
P61L-15K	21.2	19.7	4.3	3.0	5.7	5.0	1.7	1.5



MANUAL PUMPS

Part Number	Pressure Rating (psi)		Usable Oil Capacity (in ³)	Reservoir Capacity (in ³)	Oil Volume/Stroke (in ³)		Reservoir Construction	Use with Cylinder	Weight (lbs.)
	1st Stage	2nd Stage			1st Stage	2nd Stage			
P21L	200	10,000	21	31	0.79	0.10	aluminum	S/A	5
P37		10,000	34	46	0.79	0.17	steel	S/A	17
P43	-	10,000	39	52	-	0.20	steel	S/A	17
P61L	200	10,000	46	61	0.79	0.10	aluminum	S/A	9
P122		10,000	110	128	0.79	0.17	steel	S/A	28
P122DL		10,000	99	122	0.79	0.14	aluminum	D/A	16
P122HF	400	10,000	122	153	2.4	0.17	steel	S/A	26
P213		10,000	213	213	1.8	0.20	steel	S/A	36
P427		10,000	427	427	6.89	0.24	steel	S/A	55
P427D		10,000	427	427	6.89	0.24	steel	D/A	60
PF37	200	10,000	34	46	0.79	0.17	steel	S/A	22



P43



P61L



P122



P122DL



PF37 (Foot actuated)

New!



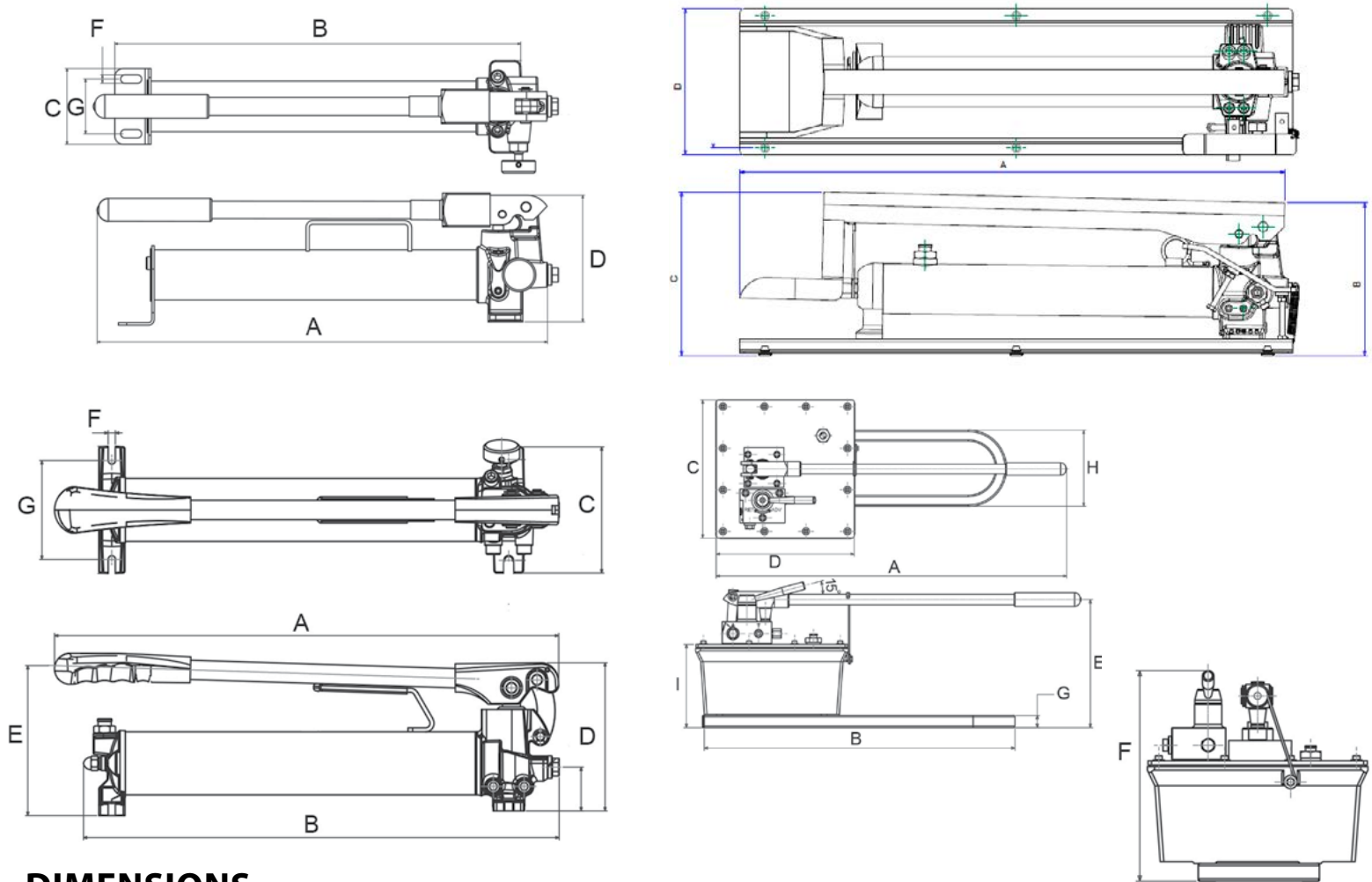
P427



P427D

DESCRIPTION

- Rugged steel or aluminum alloy body construction and low handle efforts.
- Both single and two speed models available for single and double acting cylinders.
- Connect to double acting cylinders with no need for additional control valve or adapters needed.
- Pressure relief valves for overload protection.
- Load release valve for single acting cylinder usage.



DIMENSIONS

Part Number	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)
P21L	15.40	14.21	4.81	4.99	5.11	N/A	N/A	N/A	N/A
P37	21.32	20.28	5.92	5.81	5.59	N/A	N/A	N/A	N/A
P43	25.12	21.91	5.93	5.81	5.66	N/A	N/A	N/A	N/A
P61L	21.21	19.70	4.81	5.00	5.13	N/A	N/A	N/A	N/A
P122	23.00	21.60	5.80	6.63	7.60	0.41	4.00	N/A	N/A
P122DL	24.00	22.80	5.60	5.30	5.30	N/A	N/A	N/A	N/A
P122HF	24.92	22.26	5.91	7.68	8.74	0.31	4.80	N/A	N/A
P213	24.90	20.80	5.70	6.80	7.40	0.40	3.20	N/A	N/A
P427	30.98	25.00	12.20	12.20	10.28	11.73	0.98	6.73	6.69
P427D	30.98	25.00	12.20	12.20	10.28	11.73	0.98	6.73	6.69
PF37	25.6	7.17	7.68	6.85	N/A	N/A	N/A	N/A	N/A



PA9 SERIES

AIR OVER HYDRAULIC PUMPS - PA9 SERIES

Part Number	Pressure Rating (psi)	Usable Oil (in ³)	Flow Rate in ³ /min		Reservoir Construction	Use with Cylinder	Weight (lbs.)
			No Load	At Load			
PA9-37	10,000	37	132	16	aluminum alloy	S/A	12

AIR OVER HYDRAULIC PUMPS - PA6 SERIES

Part Number	Pressure Rating (psi)	Usable Oil (in ³)	Flow Rate in ³ /min		Reservoir Construction	Use with Cylinder	Weight (lbs.)
			No Load	At Load			
PA6-98B	3,500	98	82	48	cast aluminum	S/A	16
PA6-98C	10,000	98		13	cast aluminum		16
PA6-122		122		13	aluminum alloy		20
PA6-98R		98					23
PA6-231		231					32
PA6-122D		122				D/A	22
PA6-231D		231					32
PA6-460D		460					44

DESCRIPTION

- Air Hydraulic Turbo speed operation offering high flow at high pressure.
- Air pressure range 40-170 PSI.
- PA9 with mounting plate to be securely fastened.
- Pumps can work in horizontal or vertical position.
- PA9 Hydraulic port swivels for easy connection.
- Pressure relief valve for overload protection.



PA6-98R



PA6 SERIES



Pneumatic & Air Over Hydraulic Pumps

AIR OVER HYDRAULIC PUMPS - PA11 SERIES

Part Number	Pressure Rating (psi)	Usable Oil (in ³)	Flow Rate in ³ /min		Reservoir Construction	Use with Cylinder	Weight (lbs.)
			No Load	At Load			
PA11-122	3,200	122	143	44	aluminum alloy	S/A	20
PA11-98R		98					23
PA11-231		231					32
PA11-122D		122				D/A	22
PA11-231D		231					32
PA11-460D		460					44

DESCRIPTION

- Air Hydraulic Turbo speed operation offering high flow at high pressure.
- Air pressure range 40-170 PSI.
- Pressure relief valve for overload protection.



PA11 SERIES

PNEUMATICALLY ACTUATED HYDRAULIC PUMPS

Part Number	Motor Size (hp)	1st Stage Flow (In ³ /min)	2nd Stage Flow (In ³ /min)	Use With Cylinder	Valve Type	Valve Function	Reservoir Capacity*
PA283	4	500	40	Double Acting	4W3P Pneumatic Directional Control Valve	Advance Hold Return	2 Gal
PA393			60				3 Gal
PA593			80				5 Gal 10 Gal

DESCRIPTION

- Designed in the USA.
- Two Stage hydraulic system - 10,000 PSI/700 Bar Capacity - First stage gerotor pump, second stage radial piston pump.
- Pneumatically actuated control valve with a two button pendant.
- External adjustable relief valve for pre-setting maximum pressure.
- (2,000 PSI -10,000 PSI range).
- Standard motors are air motors, 3,000 RPM.
- FRL system standard on every pump.



TOE JACKS

Part Number	Capacity (tons)	Stroke (in)	Min Height (in)	Max. Handle Effort (lbs.)	Weight (lbs.)
JT2-5	2	4.73	0.67	76.4	18
JT5-5	5	4.73	1.06	49.5	49
JT10-6	10	5.71	1.22	56.2	78

DESCRIPTION

- Low toe height to fit in tight spaces.
- 5T and 10T models with swivel sockets allow access in close quarters.
- Self contained for versatility.
- Low handle operation for ease of operation.
- For structural moving, rigging, machine lifting, forklift service and more.



BOTTLE JACKS

Part Number	Capacity (tons)	Stroke (in)	Min - Max Height (in)	Ext Screw Length (in)	Saddle Dia. (in)	Weight (lbs.)
JB5-5	5	4.66	7.88 – 15.25	2.75	1.13	8
JBL12-4	12	3.44	6.97 – 13.38	3.00	1.67	14
JB12-6	12	5.75	9.50 – 18.38	3.13	1.50	17
JBL20-4	20	3.31	7.22 – 12.00	1.50	2.06	22
JB20-7	20	6.22	10.67 – 16.88	-	2.38	27
JB30-7	30	6.25	11.06 – 17.31	-	2.41	40

DESCRIPTION

- Heavy steel construction, cylinder, oil reservoir and pump housing are welded to the hydraulic base.
- Chrome plated rod. Pump piston is heat treated and hard chrome plated.
- Equipped with an internal load limiting device. The automatic by-pass system prevents ram over-travel.
- Operates in vertical, angled, or horizontal position.
- Load tested to 150% capacity, easy to repair.



FLAT BODY CYLINDERS

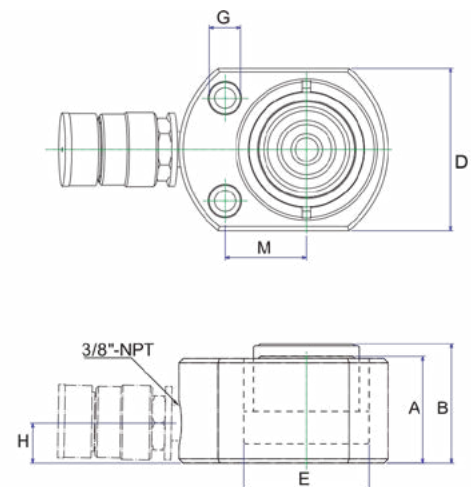
Part Number	Capacity (tons)	Stroke (in)	Oil Capacity (in ³)	(A) Collapsed Height (in)	(B) Extended Height (in)	(D) Outside Dia. (in)
CF5	5	0.25	0.25	1.28	1.53	2.31 X 1.63
CF10	10	0.44	0.98	1.69	2.13	3.25 X 2.19
CF20	20	0.44	1.95	2.03	2.47	4.00 X 3.00
CF30	30	0.50	3.25	2.31	2.81	4.63 X 3.75
CF50	50	0.63	6.07	2.63	3.25	5.50 X 4.50
CF75	75	0.63	10.03	3.13	3.75	6.50 X 5.50
CF100	100	0.63	12.39	3.38	4.00	7.00 X 6.00
CF150	150	0.67	19.34	3.94	4.61	8.86 X 7.68



Part Number	(E) Rod Diameter (in)	Cylinder Bore (in)	Effective Area (in ²)	(H) Base to Adv. Port (in)	Rod to Base (in)	(M) Rod to Mount Hole (in)	(G) Hole Dia (in)	Weight (lbs.)
CF5	1.00	1.13	0.99	0.63	0.81	0.88	0.20	3
CF10	1.50	1.69	2.24	0.75	1.09	1.34	0.28	4
CF20	2.00	2.38	4.43	0.75	1.56	1.56	0.40	7
CF30	2.50	2.88	6.51	0.75	1.88	1.75	0.40	10
CF50	2.75	3.50	9.63	0.75	2.25	2.13	0.47	15
CF75	3.25	4.50	15.92	0.75	2.75	2.63	0.53	25
CF100	3.63	5.00	19.67	0.75	3.00	2.94	0.53	32
CF150	6.50	6.25	30.70	0.91	3.38	3.35	0.53	58

DESCRIPTION

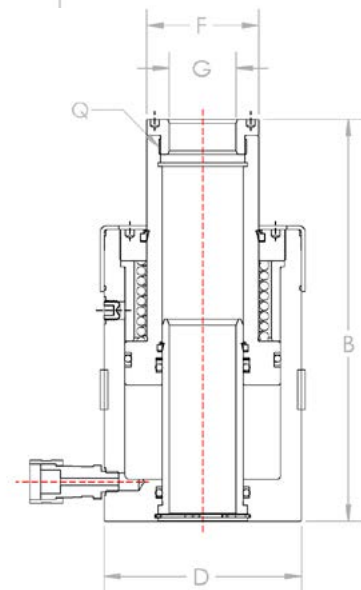
- Low profile, high tonnage steel construction.
- Single acting heavy duty spring return.
- Grooved rod end.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Mounting holes permit easy fixturing.
- Cylinders roll burnished for extended seal life.



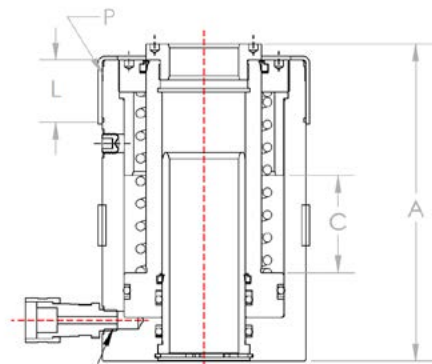
CENTER HOLE CYLINDERS

Part Number	Capacity (tons)	(C) Stroke (in)	Oil Capacity (in ³)	(A) Collapsed Height (in)	(B) Extended Height (in)	(D) Outside Dia. (in)	(F) Rod Dia. (in)	(G) Center Hole Dia. (in)	(L) Thread Length (in)	Weight (lbs)
CH12-0	12	0.31	0.9	2.36	2.68	2.72	1.38	0.77	1.18	6
CH12-2	12	2	4.8	4.72	6.38	2.72	1.38	0.77	1.18	6
CH12-3	12	3	8.7	7.24	10.24	2.72	1.38	0.77	1.18	9
CH20-2	20	2	8.9	6.38	8.35	3.88	2.13	1.06	1.5	18
CH20-6	20	6	10.3	12.10	18.20	3.88	2.13	1.06	1.5	32
CH30-2	30	2	25.3	7.01	9.53	4.50	2.50	1.31	1.65	24
CH30-6	30	6	45.3	12.99	19.11	4.50	2.50	1.31	1.65	42
CH60-3	60	3	41.4	9.75	12.74	6.25	3.50	2.12	1.91	69
CH60-6	60	6	83.4	12.74	18.77	6.25	3.50	2.12	1.91	78
CH100-3	100	3	66.3	10.00	13.00	8.38	5.00	3.11	2.38	113
CH100-6	100	6	132.8	12.90	19.22	8.38	5.00	3.11	2.38	157

Part Number	(N) Bolt Circle (in)	(P) Outside Collar Thread	(Q) Rod Thread	(R) Bolt Threads
CH12-0	-	2-3/4"-16	-	5/16"-18
CH12-2	-	2-3/4"-16	3/4"-16	5/16"-18
CH12-3	2	2-3/4"-16	-	5/16"-18
CH20-2	3.25	3-7/8"-12	1-9/16"-16	3/8"-16
CH20-6	2.35	3-7/8"-12	1-9/16"-16	3/8"-16
CH30-2	3.62	4-1/2"-12	1-13/16"-16	3/8"-16
CH30-6	3.62	4-1/2"-12	1-13/16"-16	3/8"-16
CH60-3	5.13	6-1/4"-12	2-3/4"-16	3/8"-16
CH60-6	5.13	6-1/4"-12	2-3/4"-16	3/8"-16
CH100-3	7	8-3/8"-12	4"-16	9/16"-12
CH100-6	7	8-3/8"-12	4"-16	9/16"-12



SECTION A-A
(EXTENDED)



3/8" NPT

SECTION A-A
(RETRACTED)



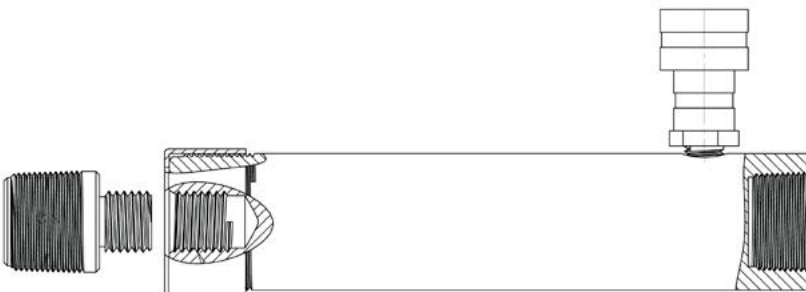
AUTOMOTIVE CYLINDERS

Part Number	Capacity (tons)	Stroke (in)	Oil Capacity (in ³)	Collapsed Height (in)	Extended Height (in)	Outside Dia. (in)	Collar Thread	Thread Length (in)
CA5-5	5	5	4.97	9.28	14.28	1.50	1-1/2"-16	1.13
CA10-6	10	6	13.70	9.75	15.88	2.25	2-1/4"-14	1.13
CA10-10	10	10	22.65	13.75	23.88	2.25	2-1/4"-14	1.13
CA25-6	25	6	32.23	11.50	17.50	3.35	3-5/16"-12	1.94
CA25-14	25	14	73.49	19.80	33.80	3.35	3-5/16"-12	1.94

Part Number	Rod Diameter (in)	Bore Diameter (in)	Effective Area (in ²)	Base Hole Thread	Rod End Internal Thread	Weight (lbs.)
CA5-5	1.00	1.13	0.99	3/4"-14 NPT	3/4" - 16	4
CA10-6	1.50	1.69	2.24	1-1/4"-11-1/2 NPT	1" - 8	10
CA10-10	1.50	1.69	2.24	1-1/4"-11-1/2" NPT	1" - 8	14
CA25-6	2.25	2.56	5.16	2" - 11-1/2 NPT	1-1/2" - 16	22
CA25-14	2.25	2.56	5.16	2" - 11-1/2 NPT	1-1/2" - 16	39

DESCRIPTION

- Single acting with heavy duty spring return.
- Collar and base threads accommodate accessories and adapters.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Rod end saddle, available as an option.
- Cylinders roll burnished for extended seal life.



LOW PROFILE (SHORT) CYLINDERS

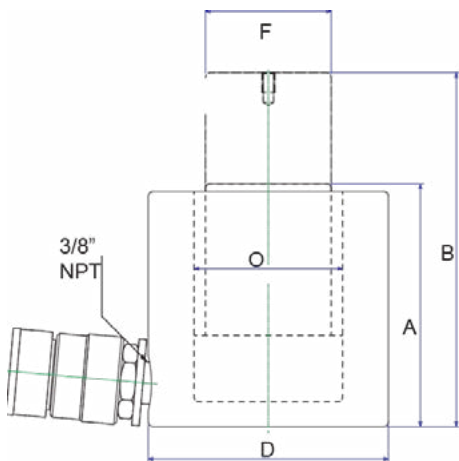
Part Number	Capacity (tons)	Stroke (in)	Oil Capacity (in ³)	(A) Collapsed Height (in)	(B) Extended Height (in)	(D) Outside Diameter (in)	(F) Rod Diameter (in)
CL10-1	10	1.50	3.35	3.50	4.97	2.75	1.50
CL20-2	20	1.75	7.77	3.88	5.63	3.63	2.00
CL30-2	30	2.44	15.85	4.63	7.06	4.00	2.50
CL50-2	50	2.38	22.91	5.02	7.19	4.88	2.75
CL100-2	100	2.50	44.25	5.56	7.81	6.50	3.63
CL150-2*	150	2.36	73.54	6.38	8.74	8.07	5.00
CL200-2*	200	2.36	103.65	6.70	9.06	9.72	5.91

Part Number	(O) Bore Diameter (in)	Effective Area (in ²)	Bolt Circle (in)	Thread	Thread Depth (in)	Weight (lbs.)
			Saddle Mounting Holes			
CL10-1	1.69	2.43	1.03	M4	0.32	5
CL20-2	2.38	4.44	0.94	M5	0.32	11
CL30-2	2.88	6.50	1.42	M5	0.38	15
CL50-2	3.50	9.62	1.56	M6	0.38	24
CL100-2	5.00	19.67	2.19	M8	0.40	44
CL150-2*	6.30	31.16	N/A	N/A	N/A	88
CL200-2*	7.48	43.92	N/A	N/A	N/A	132

*Load return

DESCRIPTION

- Single acting, steel construction, heavy duty spring return.
- Angled coupler on CL10, CL20 and CL30 allows for more compact, low profile design.
- Protective saddle with mounting holes.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Cylinders roll burnished for extended seal life.



Single Acting Aluminum Cylinders

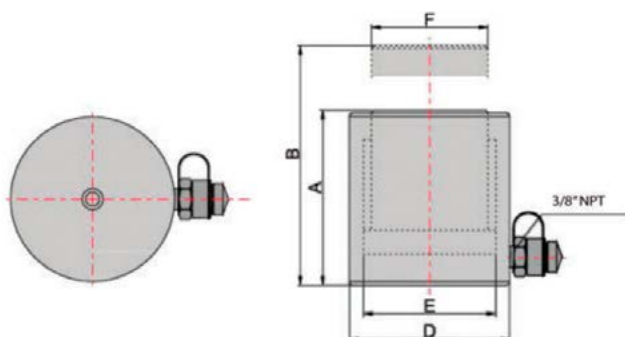
SINGLE ACTING ALUMINUM CYLINDERS

Part Number	Capacity (tons)	Stroke (in)	Effective Area (in ²)	Oil Capacity (in ³)	(A) Collapsed Height (in)	(B) Extended Height (in)	(D) Outside Dia. (in)	(E) Inside Dia. (in)	(F) Piston Rod Dia. (in)	Weight (lbs.)
CAL10-2	10	2	2.5	5.1	5.6	7.6	2.4	1.8	1.5	3
CAL10-4	10	4	2.5	10.2	7.6	11.5	2.4	1.8	1.5	4
CAL10-6	10	6	2.5	15.3	9.5	15.4	2.4	1.8	1.5	5
CAL20-2	20	2	3.1	9.0	6.4	8.3	3.3	2.4	2.0	7
CAL20-4	20	4	3.1	18.1	8.3	12.3	3.3	2.4	2.0	8
CAL20-6	20	6	3.1	27.1	10.3	16.2	3.3	2.4	2.0	10
CAL30-2	30	2	4.5	14.1	6.8	8.7	4.3	3.0	2.4	11
CAL30-4	30	4	4.5	28.3	8.7	12.7	4.3	3.0	2.4	14
CAL30-6	30	6	4.5	42.4	10.7	16.6	4.3	3.0	2.4	17
CAL50-2	50	2	7.5	15.1	7.2	9.1	5.5	3.7	3.1	19
CAL50-4	50	4	7.5	30.2	9.1	13.1	5.5	3.7	3.1	23
CAL50-6	50	6	7.5	45.3	11.1	17.0	5.5	3.7	3.1	28
CAL50-10	50	10	7.5	75.5	15.1	25.1	5.5	3.7	3.1	37
CAL100-2	100	2	14.5	29	8.1	10.2	7.1	5.3	4.3	38
CAL100-4	100	4	14.5	58	10.1	14.1	7.1	5.3	4.3	45
CAL100-6	100	6	14.5	87	12.1	18.0	7.1	5.3	4.3	51
CAL100-10	100	10	14.5	145.2	16.1	26.1	7.1	5.3	4.3	64

150 ton and above cylinders are available upon request.

DESCRIPTION

- Lightweight for maximum portability.
- Aluminum body resists sparking in explosive environments.
- Hard-coated aluminum piston rod and cylinder bore resist wear and corrosion.
- Single acting, spring return.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Each cylinder has a flat grooved saddle. Tilt saddle is available on request.

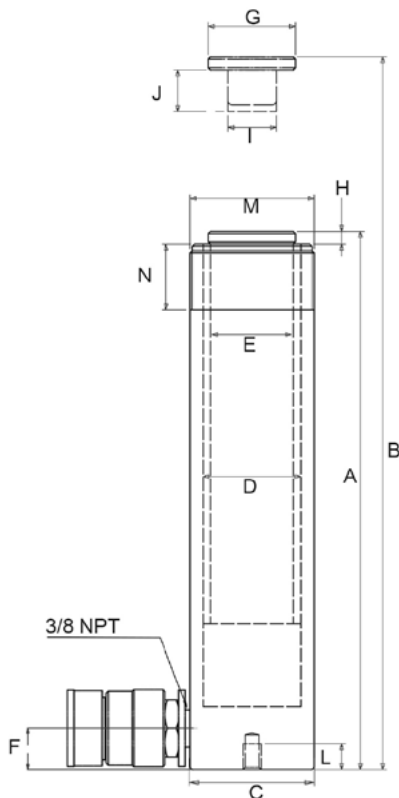


SINGLE ACTING CYLINDERS



DESCRIPTION

- Single acting with heavy duty spring return.
- Steel construction and chrome plated rod.
- Collar threads with protective cover & base mounting holes.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Cylinders roll burnished for extended seal life.
- Custom cylinders available.



Part Number	Capacity (tons)	Stroke (in)	Oil Capacity (in ³)	(A) Collapsed Height (in)	(B) Extended Height (in)	Weight (lbs.)	(C) Outside Dia. (in)
C5-1	5	1	0.99	4.34	5.34	2	1.50
C5-3		3	2.98	6.50	9.50	3	
C5-5		5	4.97	8.50	13.55	4	
C5-7		7	6.96	10.75	17.80	5	
C5-9		9	9.07	12.75	21.93	6	
C10-1	10	1	2.24	3.62	4.62	4	2.25
C10-2		2	4.75	4.86	6.91	5	
C10-4		4	9.23	6.85	10.88	7	
C10-6		6	13.70	9.86	15.76	9	
C10-8		8	17.89	11.85	19.80	11	
C10-10		10	22.65	13.85	23.80	13	
C10-12		12	26.81	15.87	27.83	15	
C10-14		14	31.40	17.72	31.75	17	
C10-16		16	35.89	19.77	35.77	18	
C10-18		18	40.37	21.75	39.75	20	
C15-2	15	2	6.28	5.88	7.88	9	2.75
C15-4		4	12.57	7.88	11.88	11	
C15-6		6	18.85	10.69	16.54	15	
C15-8		8	25.13	12.69	20.55	18	
C15-10		10	31.42	14.69	24.59	21	
C15-12		12	37.70	16.69	28.69	23	
C15-14		14	43.98	18.69	32.69	25	
C25-1	25	1	5.25	5.40	6.44	12	3.35
C25-2		2	10.31	6.83	8.84	14	
C25-4		4	20.63	8.78	12.74	18	
C25-6		6	32.23	10.79	16.95	22	
C25-8		8	42.55	12.80	20.77	26	
C25-10		10	52.86	14.80	24.78	31	
C25-12		12	63.18	16.73	28.98	35	
C25-14		14	73.49	18.74	33.00	39	
C55-2	55	2	22.09	6.94	8.94	33	5.00
C55-4		4	44.18	8.96	12.94	39	
C55-6		6	69.00	11.13	17.38	45	
C55-10		10	110.82	15.10	25.15	65	
C55-13		13	146.34	18.13	31.38	83	
C100-6	100	6	136.67	14.06	20.69	130	6.99
C100-10		10	211.45	17.69	27.94	160	

Single Acting Cylinders

Collar Thread	(N) Thread Length (in)	(E) Rod Dia. (in)	(D) Bore Dia. (in)	Effective Area (in ²)	(F) Base to Advance Port (in)	(G) Saddle Dia. (in)	(I) Rod Internal Thread	(J) Rod Thread Length (in)	Bolt Circle (in)	Thread	Thread Depth (in)
1-1/2"-16	1.13	1.00	1.13	0.99	0.75	1.00	3/4"-16	0.56	1.00	1/4"-20	0.56
2-1/4"-14	1.13	1.50	1.69	2.24	0.75	1.50	1"-8	0.75	1.56	5/16"-18	0.50
2-3/4"-16	1.19	1.63	2.00	3.14	0.98	1.57	1"-8	1.00	1.88	3/8"-16	0.50
3-5/16"-12	1.94	2.25	2.56	5.16	1.00	2.00	1-1/2"-16	1.00	2.31	1/2"-13	0.75
5"-12	1.75	3.13	3.75	11.04	1.38	3.15	-	-	3.75	1/2"-13	0.75
6-7/8"-12	1.75	4.13	5.13	20.63	1.57	4.13	-	-	5.50	3/4"-10	1.00

LOCK NUT CYLINDERS

Part Number	Capacity (tons)	Stroke (in)	Effective Area (in ²)	Oil Capacity (in ³)	Weight (lbs.)	(A) Collapsed Height (in)	(B) Extended Height (in)
CLL10-2	10	2	2.5	5.1	9	5.6	7.6
CLL10-4	10	4	2.5	10.2	12	7.6	11.6
CLL10-6	10	6	2.5	15.3	15	9.6	15.5
CLL20-2	20	2	4.5	9.0	15	5.8	7.8
CLL20-4	20	4	4.5	18.1	20	7.8	11.7
CLL20-6	20	6	4.5	27.1	25	9.8	15.7
CLL30-2	30	2	7.1	14.1	20	6.1	8.11
CLL30-4	30	4	7.1	28.3	28	8.1	12.0
CLL30-6	30	6	7.1	42.4	34	10.1	16.0
CLL50-2	50	2	10.8	21.5	32	6.5	8.4
CLL50-4	50	4	10.8	43.0	42	8.4	12.4
CLL50-6	50	6	10.8	64.5	52	10.4	16.3
CLL100-2	100	2	22.1	44.1	67	7.3	9.3
CLL100-4	100	4	22.1	88.2	86	9.3	13.2
CLL100-6	100	6	22.1	132.4	105	11.3	17.2
CLL150-2	150	2	33.2	66.4	119	8.2	10.2
CLL150-4	150	4	33.2	132.7	147	10.2	14.1
CLL150-6	150	6	33.2	199.1	175	12.1	18.1

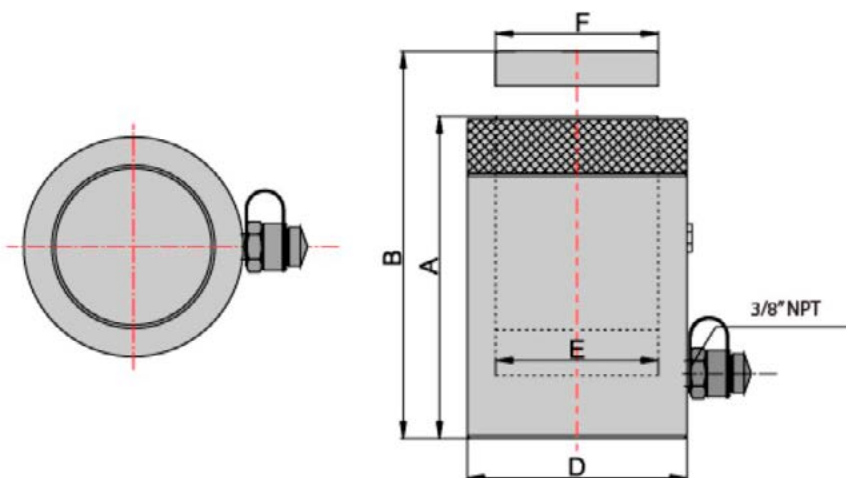
*200 ton and above cylinders are available upon request.

DESCRIPTION

- Mechanical lock to support load. Overflow port prevents piston from being overextended.
- Safety lock nut for mechanical load holding.
- Overflow port functions as a stroke limiter.
- High strength alloy steel for durability.
- Chrome plated piston resists wear and corrosion.
- Baked enamel finish for increased corrosion resistance.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Each cylinder has a flat grooved saddle. Tilt saddle is available on request.
- 10-200 ton cylinders are spring return. 250 ton and above are load return.

Single Acting Lock Nut Cylinders

(D) Outside Dia. (in)	(E) Inside Dia. (in)	(F) Piston Rod Dia. (in)	Locknut Height (in)	Handle
2.7	1.8	1.8	1.1	
2.7	1.8	1.8	1.1	✓
2.7	1.8	1.8	1.1	✓
3.3	2.4	2.4	1.2	
3.3	2.4	2.4	1.2	✓
3.3	2.4	2.4	1.2	✓
4.1	3.0	3.0	1.3	✓
4.1	3.0	3.0	1.3	✓
4.1	3.0	3.0	1.3	✓
4.8	3.7	3.7	1.3	✓
4.8	3.7	3.7	1.4	✓
4.8	3.7	3.7	1.4	✓
6.6	5.3	5.3	1.4	Eye Bolts
6.6	5.3	5.3	1.7	Eye Bolts
6.6	5.3	5.3	1.7	Eye Bolts
8.2	6.5	6.5	1.7	Eye Bolts
8.2	6.5	6.5	1.7	Eye Bolts
8.2	6.5	6.5	1.7	Eye Bolts



DOUBLE ACTING CYLINDERS

Part Number	Push Capacity (tons)	Pull Capacity (tons)	Stroke (in)	Oil Capacity Push (in ³)	Oil Capacity Pull (in ³)	(A) Collapsed Height (in)	(B) Extended Height (in)	(D) Outside Diameter (in)
CD10-6	10	4	6.00	13.50	4.60	12.10	18.10	2.88
CD10-10	10	4	10.00	22.33	8.00	16.13	26.13	2.88
CD10-12	10	4	12.00	26.80	9.00	18.00	30.00	2.88
CD25-6	24.5	7	6.25	30.68	8.42	12.47	18.72	4.00
CD30-8	30	15	8.25	53.67	25.00	15.25	23.50	4.00
CD30-14	30	15	14.50	92.70	43.00	21.63	36.13	4.00
CD55-6	55	17	6.13	67.77	21.00	13.06	19.19	5.00
CD55-13	55	17	13.13	145.17	44.00	20.06	33.19	5.00
CD80-6	80	24	6.13	97.58	29.00	13.66	19.79	6.30
CD80-13	80	24	13.13	209.00	64.00	20.69	33.81	6.30
CD100-6	100	48	6.63	136.93	63.00	14.06	20.69	7.00
CD100-13	100	48	13.00	271.17	126.00	20.63	33.75	7.00

DESCRIPTION

- Double acting, allows for both, push and pull forces.
- Ability to control cylinder speed in both extension and retraction. (Additional components required).
- Steel construction and chrome plated rod.
- 10T to 100 T capacity with 6" to 14-1/2" stroke.
- Collar threads for easy fixturing.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Cylinders roll burnished for extended seal life.

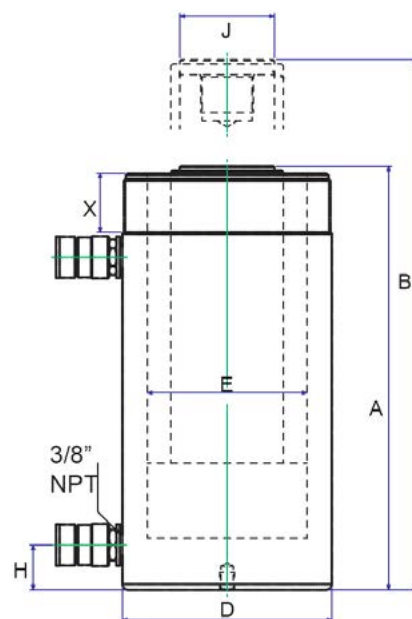


Double Acting Cylinders

(X) Collar Thread (in)	(E) Bore Diameter (in)	(J) Rod Diameter (in)	Effective Area Push (in ²)	Effective Area Pull (in ²)	(H) Base to Advance Port (in)	Bolt Circle (in)	Thread	Thread Depth (in)	Weight (lbs.)
2-1/4"-14	1.69	1.38	2.23	0.80	1.44	–	–	–	20
2-1/4"-14	1.69	1.38	2.23	0.80	1.44	–	–	–	28
2-1/4"-14	1.69	1.38	2.23	0.80	1.44	–	–	–	31
4"-12	2.50	2.13	4.91	1.35	1.00	–	–	–	40
3-5/16"-12	2.88	2.13	6.51	3.00	1.44	–	–	–	40
3-5/16"-12	2.88	2.13	6.51	3.00	1.56	–	–	–	64
5"-12	3.75	3.13	11.06	3.40	1.13	–	–	–	67
5"-12	3.75	3.13	11.06	3.40	1.13	–	–	–	115
5-3/4"-12	4.72	3.75	15.92	4.90	1.19	–	–	–	92
5-3/4"-12	4.72	3.75	15.92	4.90	1.19	–	–	–	150
6-7/8"-12	5.13	3.75	20.65	9.60	2.50	5.5	3/4"-10	1	135
6-7/8"-12	5.13	3.75	20.65	9.60	2.50	5.5	3/4"-10	1	205



For 150 ton + cylinders and up, see page 27



HIGH TONNAGE DOUBLE ACTING CYLINDERS

Part Number	Push Capacity (tons)	Stroke (in)	Oil Capacity (in ³)	Retracted Height (in)
CD150-2	150	2	60	7.75
CD150-6	150	6	182	11.75
CD150-12	150	12	360	17.75
CD200-2	200	2	81	8.50
CD200-6	200	6	244	12.50
CD200-8	200	8	323	14.50
CD200-12	200	12	487	18.50
CD250-6	250	6	333	13.25
CD250-12	250	12	667	19.25
CD300-2	300	2	140	12.50
CD300-6	300	6	418	16.50
CD300-12	300	12	836	22.50
CD400-6	400	6	513	18.75
CD400-12	400	12	1043	24.75
CD500-2	500	2	223	16.75
CD500-6	500	6	669	20.75
CD500-12	500	12	1338	26.75

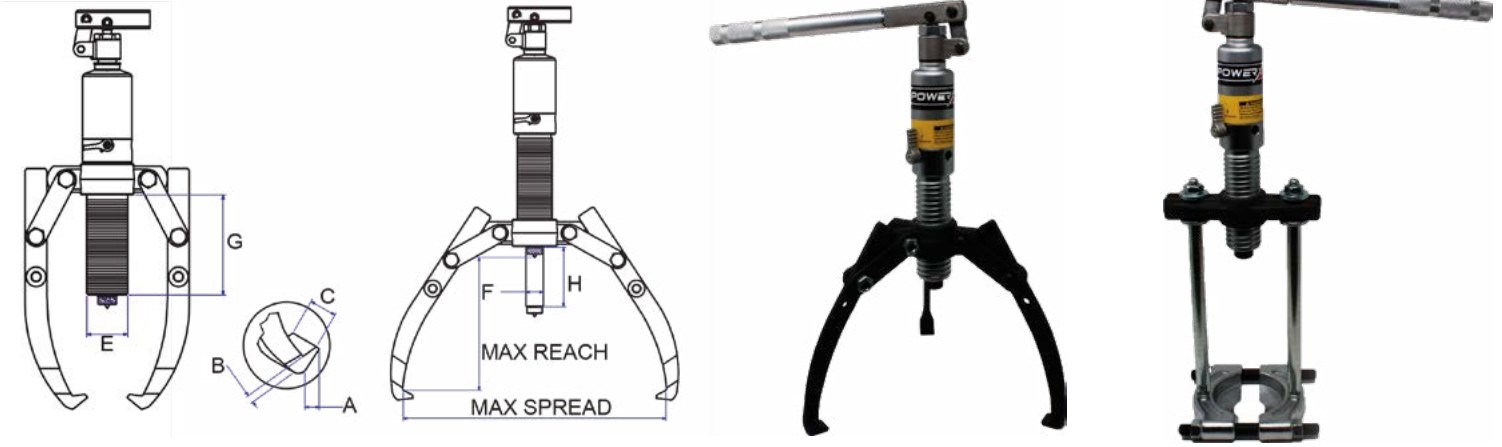
HIGH TONNAGE SINGLE ACTING LOAD RETURN CYLINDERS

Part Number	Capacity (tons)	Stroke (in)	Oil Capacity (in ³)	Retracted Height (in)
C150-6	150	6	182	11.65
C150-10	150	10	303	15.65
C150-12	150	12	364	17.65
C200-6	200	6	244	12.50
C200-12	200	12	487	18.50
C250-2	250	2	112	9.50
C250-6	250	6	336	13.50
C250-12	250	12	671	19.50
C300-2	300	2	140	12.50
C300-6	300	6	418	16.50
C300-12	300	12	836	22.50
C400-2	400	2	171	14.75
C400-6	400	6	513	18.75
C400-12	400	12	1026	24.75
C500-2	500	2	223	16.50
C500-6	500	6	669	20.50
C500-12	500	12	1338	26.50



DESCRIPTION

- Double acting or single acting.
- Ability to control cylinder speed in both extension and retraction. (Additional components required).
- Steel construction and chrome plated rod.
- 150T to 500 T capacity with 2" to 12" stroke.
- Collar threads for easy fixturing.
- 3/8" NPTF port with high flow coupler and dust cap.
- Durable exterior finish and ANSI B30.1 compliant.
- Cylinders roll burnished for extended seal life.



DESCRIPTION

HPK4, HPK8, and HPK12

- Ideal for removing a wide variety of components, including bearings, bushings, wheels, gears, and pulleys.
- Self-contained hydraulic pump eliminates the need for a separate pump and hose, saving space and simplifying setup.
- Includes 2-jaw and 3-jaw pullers, a crosshead puller, a bearing attachment, and all required hardware.
- Built-in safety relief valve helps protect the system against overloading.
- Five-position adjustable handle provides improved access and positioning in tight spaces.
- Supplied in an easy-to-carry, blow-molded case for organized component storage.

HPK20 and HPK30

- Ideal for removing a wide variety of components, including bearings, bushings, wheels, gears, and pulleys.
- Self-contained hydraulic pump eliminates the need for a separate pump and hose, saving space and simplifying setup.
- Includes 2-jaw and 3-jaw pullers, extension rods, and all required hardware.
- Built-in safety relief valve helps protect the system against overloading.
- Supplied in a durable metal case for heavy-duty protection and storage.



HYDRAULIC PULLER KITS

Part Number	Capacity (Tons)	Reach (Max. in)	Spread (Max. in)	Stroke (in)	Pump Tip (in)			Jaw Tip (in)			Weight (lbs.)
				H	E	F	G	A	B	C	
HPK4	4	7.28	10.04	2.36	1.65	0.87	3.31	0.43	0.24	0.87	30
HPK8	8	9.05	13.78	3.35	1.97	0.98	4.80	0.43	0.39	0.98	45
HPK12	12	10.63	14.76	3.35	2.36	1.10	4.65	0.55	0.39	1.14	83
HPK20*	20	14.17	20.47	4.37	3.15	1.57	6.34	0.79	1.06	1.30	44
HPK30*	30	14.17	21.65	4.37	3.86	1.97	6.10	0.79	1.06	1.50	66

*20 ton and 30 ton kits do not have bearing attachments

PORTABLE POWER PACKS



Build Your Own Power Pack

Choose a pump & cylinder combo that works for your application. Tools, hoses, and attachments are also customizable.

Call for more info: (414) 988-6202

DESCRIPTION

- Snap together design for fast and easy assembly and disassembly.
- Tool components forged for rigidity and durability.
- 10,000 psi single speed pump with automatic overload system.
- Easy to carry blow molded case for components storage.
- Available in both 4 ton and 10 ton capacity kits.

Each MRK4 4 Ton Power Pack or MRK10 10 Ton Pack Contains:

- | | |
|--|----------------------------|
| • (1) 4 Ton 4" Stroke Cylinder OR (1) 10 Ton 10" Stroke Cylinder | • (1) Wedge Head |
| • (1) Hydraulic Pump | • (1) Spreader Plunger Toe |
| • (1) 6 Foot Hose | • (1) Spreader Ram Toe |
| • (1) 1/2 Ton Spreader | • (1) Flex Head |
| • (4) Extension Tubes | • (1) Serrated Saddle |
| • (1) Male Connector | • (1) Blow Molded Case |
| • (1) Flat Base | |
| • (1) 90 Degree "V" Base | |



HYDRAULIC SPREADERS

Part Number	Spread (in)		Capacity (tons)	Weight (lbs.)
	Min. (A)	Max. (B)		
PXFS14-ST	0.24	3.19	14	23
PXFS15-FL	0.24	0.63	15	7
PXFS15-ST	0.24	0.63	15	7
PXFS25-FL	0.31	1.00	25	17
PXHS-1000	1.30	11.90	1	25
PXHS-0750	1.00	3.00	1	5



PXFS15-ST



PXFS15-FL



PXFS25-FL



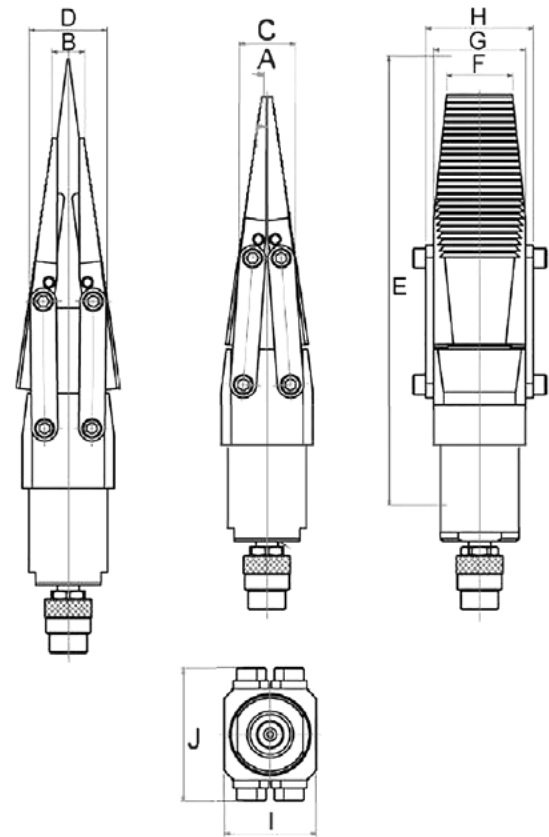
PXFS14-ST



PXHS-1000



PXHS-0750



DESCRIPTION

- Compact design will optimize use in low clearance applications.
- Lightweight for increased portability.
- Manufactured from high quality hardened steel.

DIMENSIONS

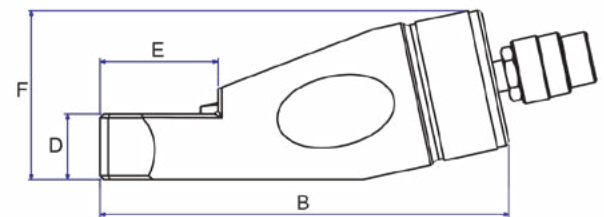
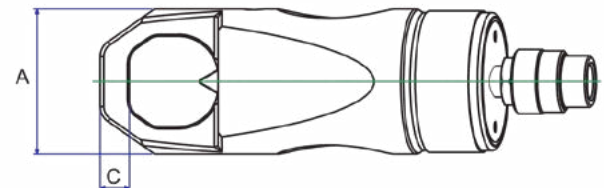
Part Number	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	I (in)	J (in)
PXFS14-ST	1.3	1.4	11.1	2.3	2.5	2.5	2.5	3.6
PXFS15-FL	1.4	1.8	9.1	1.2	1.8	2.2	2.5	2.5
PXFS15-ST	1.4	1.8	9.1	1.2	1.8	2.2	2.5	2.5
PXFS25-FL	1.7	2.3	13.5	2.0	2.8	3.2	2.8	4.0
PXHS-1000	6.6	6.6	19.2	2.4	2.4	2.4	2.4	6.6
PXHS-0750	1.0	2.1	8.8	2.1	2.1	2.1	2.1	2.1

NUT SPLITTERS

Part Number	Hexagon Nut Range (in)	Bolt Range	Capacity (Ton)	Oil Capacity (in ³)	Dimensions						Weight (lbs.)
					A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	
PXNS1924	.75 – .94	.44 – .56	10	1.22	2.36	6.58	0.39	0.98	1.57	2.68	5
PXNS2432	.94 – 1.13	.56 – .75	15	3.66	2.76	7.01	0.51	1.18	2.05	2.99	7
PXNS3241	1.13 – 1.56	.75 – 1.00	20	4.88	3.15	8.90	0.59	1.42	2.56	3.66	9
PXNS4150	1.61 – 1.97	1.06 – 1.29	35	9.45	3.78	9.6	0.83	1.77	2.99	4.17	18
PXNS5060	1.97 – 2.36	1.29 – 1.54	50	14.65	4.17	10.59	0.94	2.17	3.62	4.92	25

DESCRIPTION

- Compact design for use in confined spaces.
- All models feature a rugged one-piece cutting frame coupled to a heavy-duty hydraulic cylinder.
- Specially designed “tool steel” cutter blade cuts the nut with accuracy and precision.
- Unique angled head design to keep contact with the nut during operation.
- Angled cutter blade with radius produces greater resistance for cutting and splitting.
- Our nut splitters include a spare blade, a spare set screw and the wrench used to secure the chisel.



Recommended Pump and Accessories

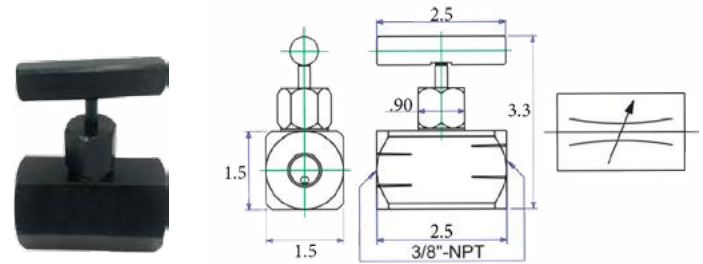


Recommended Pump and Accessories
Available on Pages 11 and 34-35



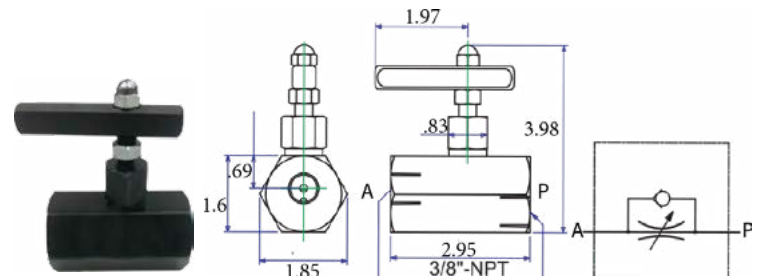
Part Number: VNO-33

- Used for normal flow control.
- Can be used as a shut off valve.
- Maximum working pressure : 10,000 psi / 700 Bar.
- 1/4 NPT needle valve available on request.



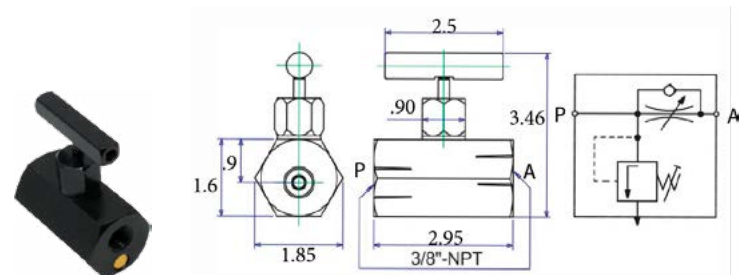
Part Number: VNC-33

- Used for precise metering of flow.
- Bypass flow control in return direction.
- Temporary shut off only.
- Maximum working pressure : 10,000 psi / 700 Bar.



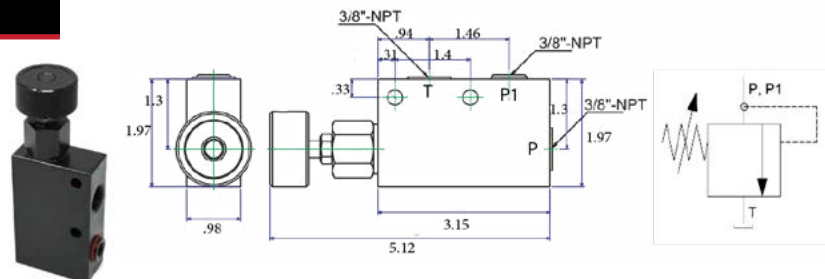
Part Number: VNR-33

- Needle valve style load holding.
- Bypass flow control in return direction.
- Built in pressure relief valve.
- Maximum working pressure : 10,000 psi / 700 Bar.



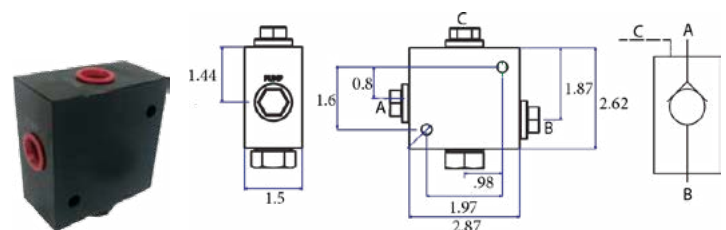
Part Number: VRO-33

- Inline pressure relief valve.
- Adjustable from 100 - 10,000 psi.
- Built in pressure relief valve.
- Maximum working pressure : 10,000 psi / 700 Bar.



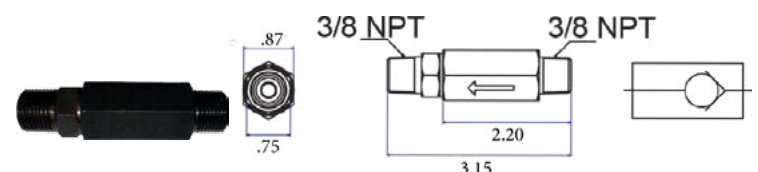
Part Number: VCP-33

- Inline pilot operated check valve.
- 3/8 NPT female threads.
- Maximum working pressure : 10,000 psi / 700 Bar.



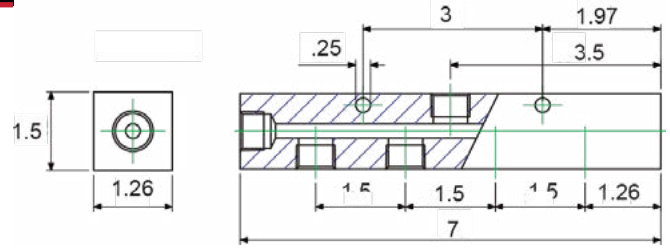
Part Number: VCO-33

- Inline check valve.
- 3/8 NPT male threads.
- Maximum working pressure : 10,000 psi / 700 Bar.



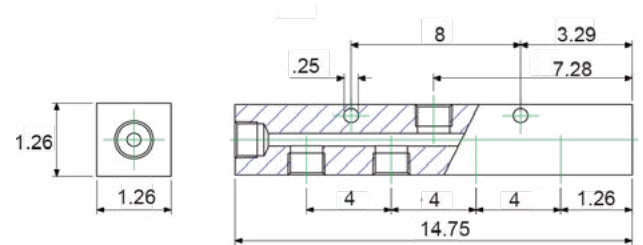
Part Number: FRM-3-7

- 7 X 3/8 NPT manifold block.
- Ideal as return manifold or when gauges are not required.
- Maximum working pressure : 10,000 psi / 700 Bar.



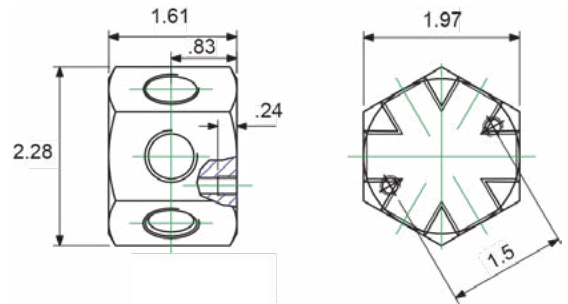
Part Number: FRM-3-14

- 7 X 3/8 NPT manifold block.
- Larger gap between ports ideal for use with gauges.
- Maximum working pressure : 10,000 psi / 700 Bar.



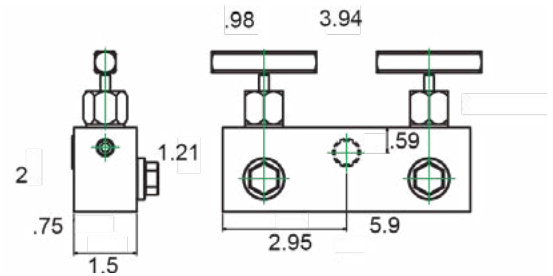
Part Number: FRM-6

- 6 X 3/8 NPT manifold block.
- Hex design to allow for multiple angle connection.
- Maximum working pressure : 10,000 psi / 700 Bar.



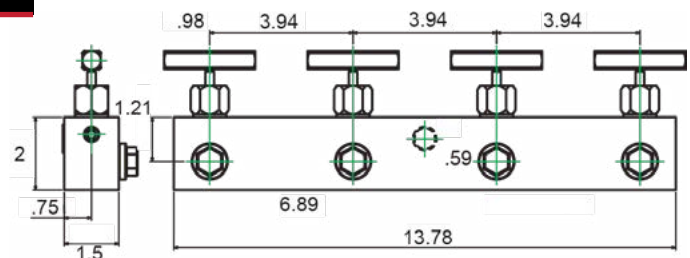
Part Number: VMN-2-3

- 3 X 3/8 NPT ports.
- Built in needle valves for 2 outlet flow control.
- Maximum working pressure : 10,000 psi / 700 Bar.



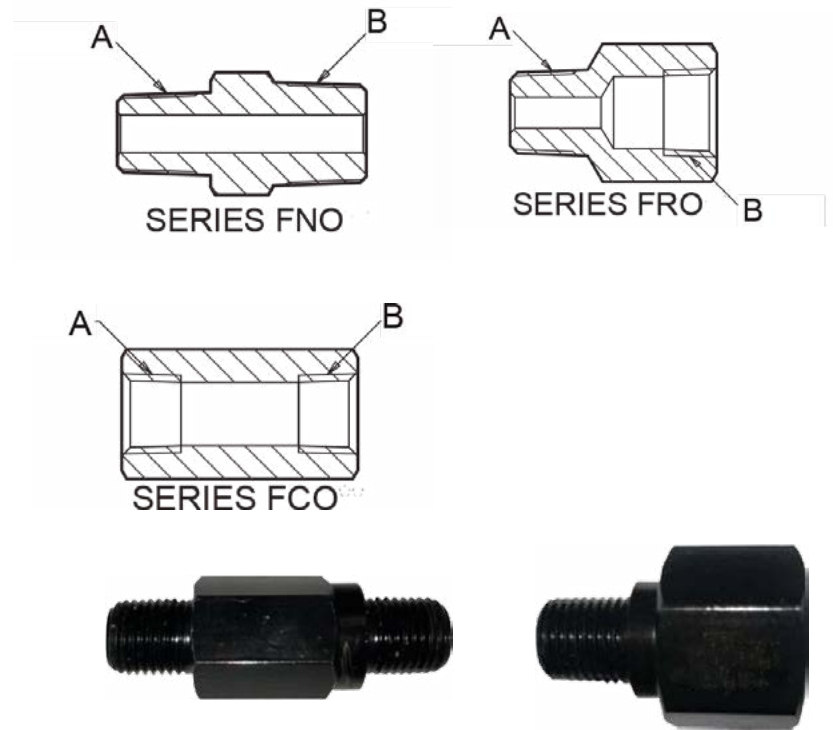
Part Number: VMN-4-3

- 5 X 3/8 NPT manifold block.
- Built in needle valves for 4 outlet flow control.
- Maximum working pressure : 10,000 psi / 700 Bar.



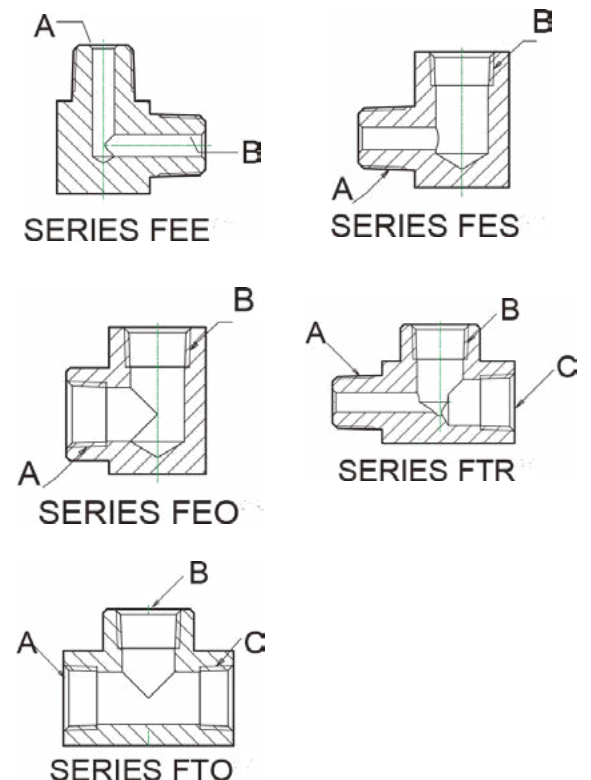
10,000 PSI STRAIGHT CONNECTORS

Part Number	(A)		(B)	
	Thread	Type	Thread	Type
FNO-33	3/8 NPT	Male	3/8 NPT	Male
FNO-22	1/4 NPT	Male	1/4 NPT	Male
FNO-23	1/4 NPT	Male	3/8 NPT	Male
FRO-23	1/4 NPT	Male	3/8 NPT	Female
FRO-32	3/8 NPT	Male	1/4 NPT	Female
FCO-33	3/8 NPT	Female	3/8 NPT	Female
FCO-22	1/4 NPT	Female	1/4 NPT	Female
FCO-23	1/4 NPT	Female	3/8 NPT	Female



10,000 PSI ELBOW AND TEE CONNECTORS

Part Number	(A)		(B)		(C)	
	Thread	Type	Thread	Type	Thread	Type
FEE-33	3/8 NPT	Male	3/8 NPT	Male	-	-
FES-33	3/8 NPT	Male	3/8 NPT	Female	-	-
FEO-33	3/8 NPT	Female	3/8 NPT	Female	-	-
FTR-333	3/8 NPT	Male	3/8 NPT	Female	3/8 NPT	Female
FTO-222	1/4 NPT	Female	1/4 NPT	Female	1/4 NPT	Female
FTO-333	3/8 NPT	Female	3/8 NPT	Female	3/8 NPT	Female



PRESSURE GAUGES

Part Number	Face Diameter (in)	Port Size, Mount & Fill	Pressure Range (psi)	Pressure Range (bar)
GP25L	2.5	1/4" NPT, Lower & liq. fill	0 – 10,000	0 – 700
GP40L	4		0 – 10,000	0 – 700
GV40L-25	4	Cone (1/4" - 28 LH), Lower	0 – 25,000	0 – 1,500
GV40L-40	4		0 – 40,000	0 – 2,800



HYDRAULIC HOSES

Part Number	Diameter (in)	Length (ft)	Operating Pressure (psi)
HA25-3	1/4	3	10,000
HA25-6	1/4	6	
HA25-10	1/4	10	
HA25-20	1/4	20	
HA38-4	3/8	4	
HA38-6	3/8	6	
HA38-10	3/8	10	
HA38-20	3/8	20	
HA38-50	3/8	50	



DESCRIPTION

- Hoses are MSHA approved.
- Neoprene cover is resistant to abrasion, oil, and weather.
- Temperature range of -40° to +250°F.

HIGH FLOW COUPLERS

Part Number	Size	Operating Pressure (psi)	Type
HFC-F-375	3/8"	10,000	Female
HFC-M-375	3/8"	10,000	Male
HFC-375	3/8"	10,000	Set



DESCRIPTION

- Designed for higher flow capacities and lower pressure losses than standard couplers.
- Threaded union design allows for fast component changes.
- Couplers permit safe separation at zero psi, with minimal oil loss.

CONE FITTING "T" ASSEMBLY

Part Number	Parts	Length (in)
PX003130	3/4-16 M x 1/4-28 LH FM x 3/8-24 LH FM	5.8



DESCRIPTION

- Designed for ultra high pressure applications, up to 40,000 psi.

GAUGE ADAPTOR

Part Number	Overall Size (in)	Part Size NPT
FGA-332-S26	2.5 x 1 x 1	3/8", 3/8", 1/4"
FGA-332-S45	4.5 x 1 x 1	3/8", 3/8", 1/4"
FGA-332-H30	3 x 1 x 1	3/8", 3/8", 1/4"

FGA-332-S45

FGA-332-H30

FGA-332-S26



DESCRIPTION

- Designed for high pressure applications, up to 10,000 psi.
- Stainless steel construction.

PREMIUM HYDRAULIC FLUID

Part Number	UoM	Package	Weight (lbs)
PL-1	Bottle	1 gallon	8
PL-4	Case	4 – 1 gallon	32

DESCRIPTION

- Premium hydraulic fluid made from virgin oil stock.
- Resists thermal breakdown.
- Superior anti-wear protections.
- Designed to meet the most stringent requirements of all major manufactures of hydraulic equipment.



H-FRAME PRESSES

PART NUMBER: PXSP SERIES

- Maximum working pressure: 10,000 psi / 700 Bar.
- Custom sizes available.
- Daylight 50T: 29 X 42 in.
- Daylight 100T: 31 X 32 in.
- Daylight 150T: 39 X 35 in.
- Daylight 200T: 39 X 36 in.
- Pump and cylinder matched for optimal operation.

FEATURES

- Durable, high quality welded frame.
- Fully adjustable bed.
- Pendant controlled electric pump on all presses.
- Worm screw adjustment for lateral cylinder positioning.
- V blocks / press plate included on models up to 100 t

OPTIONS

- Pump available with solenoid valve or manual valve.
- 115V and 220V options available.
- Electric, air and hand pump options available.
- Single and double acting models available.
- Press guards.

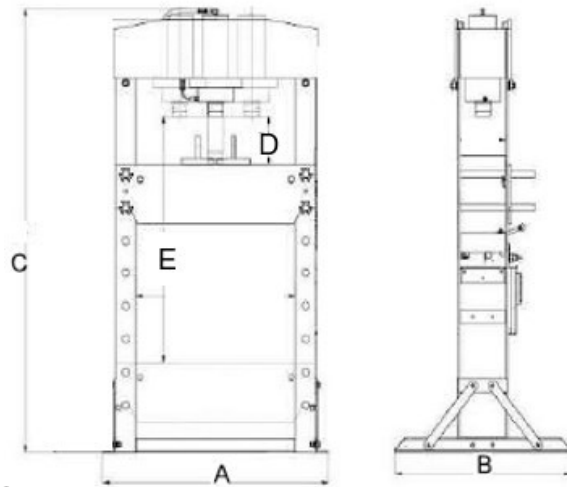
DIMENSIONS

Part Number	Tons	Cylinder Stroke (in)	Single Acting	Double Acting	115V	220V	Valve Type		Pump to Cylinder speed No load / Load (sec / in)
							Manual	Solenoid	
PXSP50	50	6	√		√		√		1.2 / 17.3
PXSP50D	50	6		√	√		√		1.2 / 17.3
PXSP50DS	50	6		√	√			√	1.2 / 17.3
PXSP100D	100	13		√	√		√		2.3 / 21.4
PXSP100DS1	100	13		√	√			√	2.3 / 21.4
PXSP100DS2	100	13		√		√		√	2.3 / 21.4
PXSP150DS1	150	13		√	√			√	3.3 / 30.6
PXSP150DS2	150	13		√		√		√	3.3 / 30.6
PXSP200DS	200	13		√		√		√	4.4 / 41.4

*Assumes PE39 for 50 ton and PE59 for 100 ton or higher.



H-Frame Presses



SPECIFICATIONS

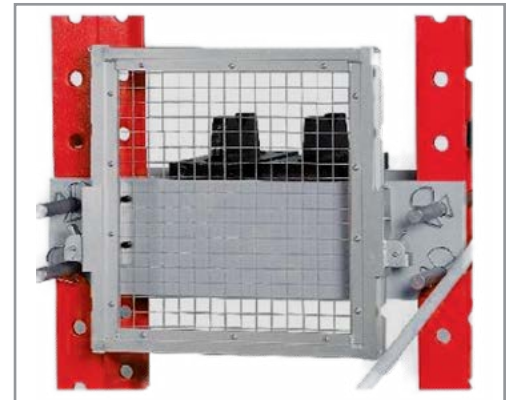
Part Number	Tons	A (in)	B (in)	C (in)	Working Height	
					D (min) (in)	E (max) (in)
PXSP50	55	40.8	31.5	72.2	3.1	41.7
PXSP100	100	47.2	39	73.4	4.4	32
PXSP150	150	57.2	39.2	82.2	2.5	35
PXSP200	200	57.6	39.2	83	3.7	36.1

OPTIONAL ACCESSORIES

PRESS GUARD

Part Number	Applied Model	Length A (in)	Width B (in)
PG50	PXSP55	24.6	26.6
PG100	PXSP100	28.7	30.5
PG150	PXSP150	24.8	38.9

*Contact us for 200 ton or clear guard options



PRESS PINS

Pin Set	Part Number	Capacity (ton)	Dia.A (in)	Dia. B (in)	Length C (in)	Net Weight (lbs)	Gross Weight (lbs)
PPS-025	PP336	2	0.4	1.0	2.0	17	18
	PP327	3	0.5	1.0	2.4		
	PP328	8	0.6	1.0	2.4		
	PP329	12	0.7	1.0	3.3		
	PP330	14	0.8	1.0	3.3		
	PP331	16	0.9	1.0	3.3		
	PP332	18	1.0	1.0	4.3		
	PP333	20	1.2	1.0	4.3		



1. CHOOSE THE RIGHT CYLINDER

You must know the weight of what you intend to lift and choose a cylinder with at least 20% more capacity. Be aware of possible load shift requiring more capacity at the particular lifting point.

2. CHECK EACH COMPONENT BEFORE SETTING

Check each component before you set up your hydraulic system. Do not use damaged or worn components. Please contact your nearest PowerX distributor, or contact the PowerX factory if your components are worn.

3. SAFETY INSTRUCTIONS

Read all warning labels and instructions. Operating instructions must be understood before using equipment. Never remove labels from equipment. Replace missing, worn, or damaged labels. Always wear safety goggles and protective clothing when using hydraulic equipment.

4. EACH JACK OR RAM MUST BE FULLY SUPPORTED AT THE BASE

Every jack or cylinder, whether used individually or in a system, should be completely supported on a solid, firm, non-sliding foundation capable of supporting the load.

5. FILL OIL RESERVOIRS WITH CYLINDER RETRACTED

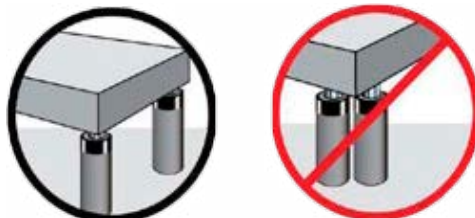
Only fill pump to recommended level, and fill only when connected cylinder is fully retracted.

6. KNOW HOW YOUR HYDRAULICS WORK

Do not use extensions or cheater bars on hydraulic jacks or hand pumps to raise a load.

7. CENTER THE LOAD ON THE LIFTING POINT

The load must be centered on the cylinder, or equally distributed on multiple cylinders. Off center loading can result in the cylinder slipping out and loss of the load.

8. WHEN USING MULTIPLE CYLINDERS, DISTRIBUTE THE LOAD EVENLY

For multiple cylinder lifts, you must be able to determine the location and number of lifting points that will allow the load to be evenly distributed to all the cylinders. This is called load balance. Size, center of gravity, and load geometry must be considered in order to correctly determine load balance.

9. BLOCK OR CRIB YOUR LOAD AS IT RAISES



Place blocking or cribbing under the loads as you raise it. Each time you raise it higher, insert more blocking. Position yourself in a manner that will keep you clear of the load, and will not allow your hands or other body parts between the load and the cribbing.

10. DO NOT USE CYLINDERS AS PERMANENT SUPPORTS



Hydraulic cylinders are not meant to be used as permanent supports, but are designed to lift and lower. If you need to hold the load for any length of time, cribbing or locknut cylinders should be used.

11. HYDRAULIC CONNECTIONS



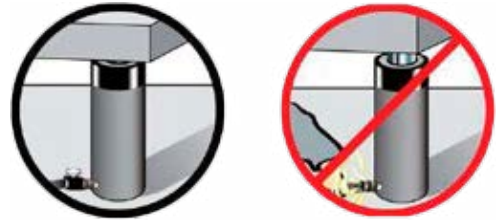
When making connections with quick couplers, make sure the couplings are fully engaged. Threaded connections such as fittings, gauges, etc. must be securely tightened and leak free. Never use excessive tightening force that may distort the fittings or strip the thread profile.

12. AVOID EXTREME HEAT OR WELD SPLATTER



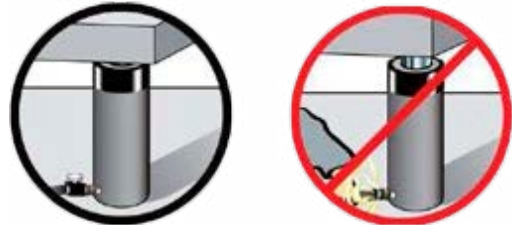
Weld splatter will damage plunger rods and hoses. Hydraulic fluid can ignite if vaporized or exposed to high temperatures.

13. HYDRAULIC DISCONNECTIONS



Never attempt to disconnect hydraulic hoses, fittings or couplers under pressure. Unload the cylinder, open the release screw on the hand pump and shift or open all hydraulic controls several times. If system includes a gauge, double check the gauge to insure pressure has been completely released.

14. DO NOT CARRY OR DRAG PUMPS AND CYLINDERS BY THEIR HOSES



Dragging or carrying cylinders or pumps by a connected hose can damage the couplers and hoses. Using damaged couplers and hoses can be dangerous.

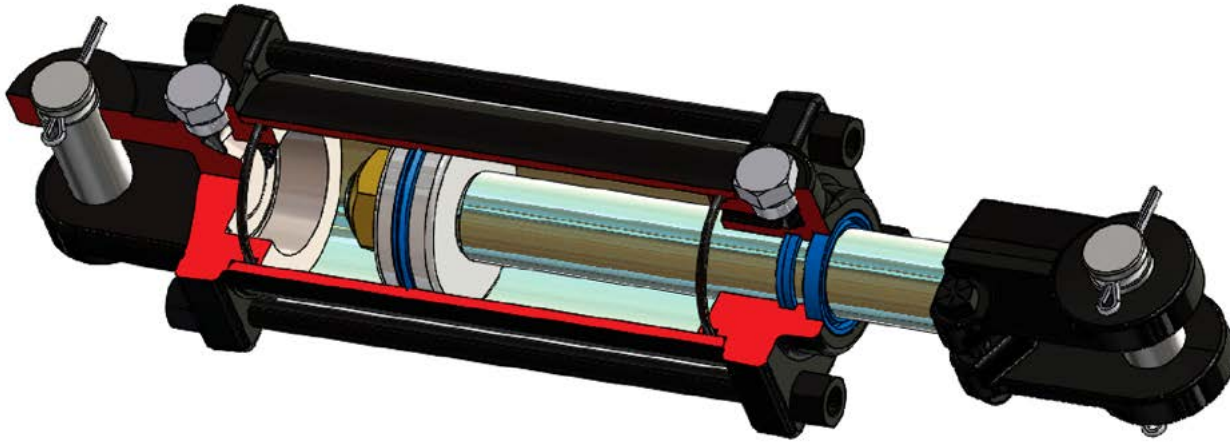
15. KEEP HYDRAULIC HOSES FREE OF OBSTRUCTIONS



Do not drop sharp or heavy objects on hose. Keep hose out of heavy traffic areas. This will cause internal damage to hose wire strands. Applying pressure to a damaged hose may cause it to rupture. Avoid sharp bends and kinks when routing hydraulic hoses.

TIE ROD CYLINDERS

3000 PSI – DOUBLE ACTING – CLEVIS MOUNT AT BASE AND ROD END



DESCRIPTION

- Piston seal - bronze impregnated PTFE piston ring w/rectangular nitrile expander.
- Rod seal - standard polyurethane U-cup with nitrile expander.
- Exterior finish powder painted black.
- Standard NPTF ports, others thread types are available upon request.
- Includes mounting pins and cotter pins.
- 100% pressure test to 1.3 times rated pressure.

STANDARD BORE AND STROKE COMBINATIONS

		Bore (in)*				
		2	2.5	3	3.5	4
Stroke (in)*	4	•	•	•	-	-
	6	•	•	•	-	-
	8	•	•	•	•	•
	8-A	•	•	•	•	•
	10	•	•	•	•	•
	12	•	•	•	•	•
	14	•	•	•	•	-
	16	•	•	•	•	•
	16-A	-	-	-	•	-
	18	•	•	•	•	•
	20	•	•	•	•	•
	24	•	•	•	•	-
	24-2	-	-	-	-	•
	30	-	-	•	•	-
	36	•	-	•	•	-

Model Number Breakdown

PX	20	04	T
	Bore Size	Stroke	Type:
	(in)	(in)	T=Tie Rod
			T-A=ASAE Tie Rod

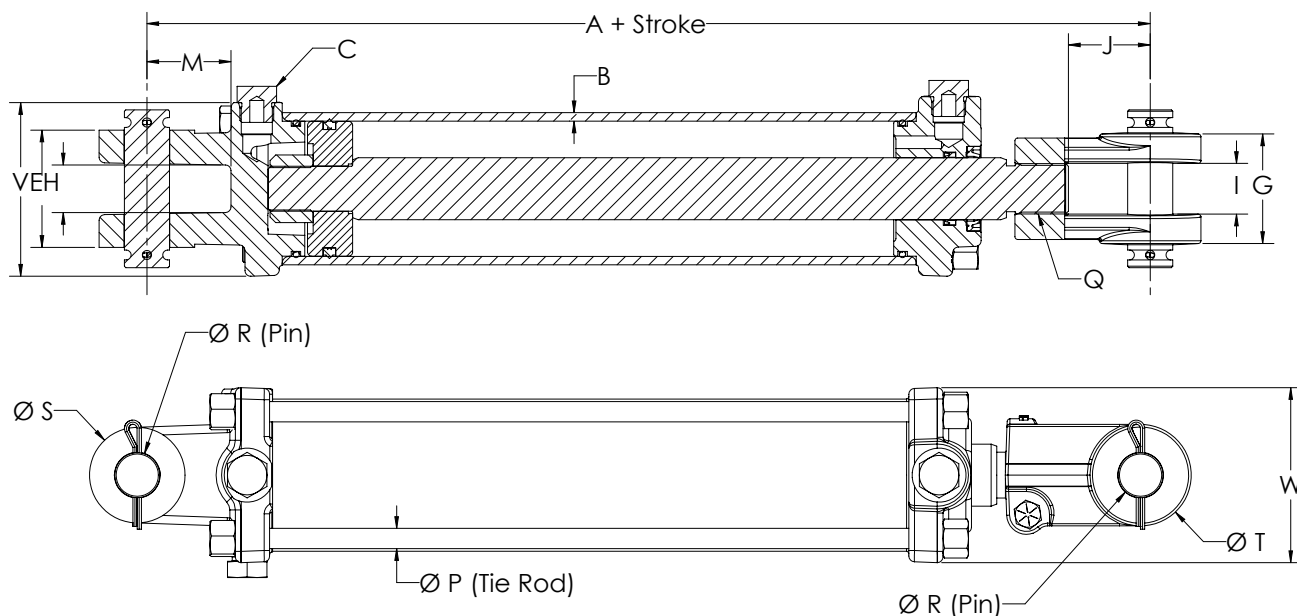
- Standard bore and stroke combination.

• Please consult factory for maximum working pressure.

- Non standard combination, please consult the factory for availability.

* Other bore and stroke combinations are available upon request.

Tie Rod Cylinders



Bore (in)	A* (in)	B (in)	C*	Rod (in)	E (in)	G (in)	H (in)	I (in)	J (in)
2	10.25	0.19	3/8" NPTF - SAE # 6	1.13	2.50	2.50	1.13	1.13	2.13
2.5	10.25	0.19	3/8" NPTF - SAE # 6	1.13	2.50	2.50	1.13	1.13	2.13
3	10.25	0.19	1/2" NPTF - SAE #8	1.25 ‡	2.50	2.63	1.13	1.13	2.13
3.5	10.25	0.22	1/2" NPTF - SAE #8	1.25 †	2.50	2.63	1.13	1.13	2.13
4	10.25	0.24	1/2" NPTF - SAE #8	1.25 ◇	2.63	2.63	1.13	1.13	2.13
Bore (in)	M (in)	P (in)	Q	R* (in)	S (in)	T (in)	V (in)	W (in)	Est. Calc. Wt. (lbs.)
2	1.63	0.39	1.13"-12 UNF	1.00	2.00	2.00	2.84	2.84	12 + (.75 * stroke)
2.5	1.63	0.39	1.13"-12 UNF	1.00	2.00	2.00	3.15	3.15	14.5 + (.75 * stroke)
3	1.63	0.47	1.25"-12 UNF	1.00	2.00	2.25	3.80	3.80	18 + (.90 * stroke) +
3.5	1.63	0.55	1.25"-12 UNF	1.00	2.25	2.25	4.25	4.25	24 + (.75 * stroke) ++
4	1.63	0.63	1.25"-12 UNF	1.00	2.25	2.25	4.92	4.92	32 + (.75 * stroke) ++

A*: 12.25" for 8" stroke ASAE cylinders and 15.50" for 16" stroke ASAE cylinders.

C*: (PORT): NPTF is standard and SAE port is available.

R*: (Pin diameter): 1.25" for 16" stroke ASAE cylinder from 3.0" to 4.0" bore.

1-1/2" rod for 30" and 36" strokes.

† 1-1/2" rod for 16" stroke ASAE cylinder.

◇ 1-1/2" rod for 8" (ASAE cylinder), 18" and 20" strokes. 2" rod for 24" stroke.

+ add 0.5 to multiplier for strokes $\geq 30"$ (change .75 to 1.25).

+ add 0.5 to multiplier for strokes $\geq 14"$ (change .90 to 1.40).

ASAE STROKE CYLINDER

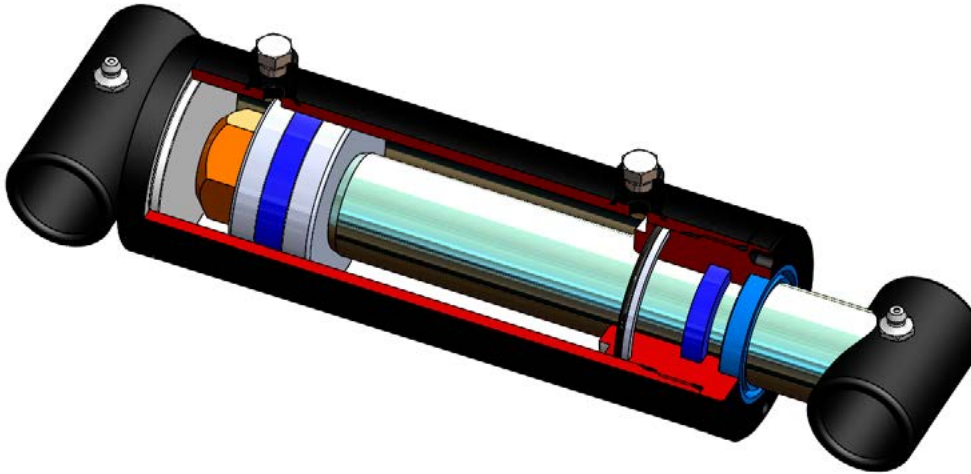
ASAE Cylinders meet ASAE(American Society of Agricultural Engineers) specifications. These specifications establish common mounting (i.e. pin to pin dimensions) and clearance dimensions (i.e. base end and rod clevis throat width and pin diameters) for cylinders and trailing-type agricultural implements. This criteria is only applicable to 8" and 16" stroke cylinders. All 2" through 4" bore cylinders with 8" stroke are designed with the rod threaded to accommodate a stroke control collar per ASAE specifications.

NON ASAE STROKE CYLINDER

NON ASAE cylinders are designed per ASAE requirements, however are not classified ASAE due to their varying pin to pin dimensions.

WELDED CYLINDERS

3000 PSI – DOUBLE ACTING CYLINDER - TUBE MOUNT



Bore (in)	A (in)	B (in)	C (in)	K (in)	L (in)	Port	Rod Dia. (in)	Est. Calc. Wt. (lbs.)
1.5	8.00	0.75	1.25	2	2.25	SAE #4	1.00	5.5+ (.75 * stroke)
2	8.00	1.00	1.5	2.25	2.75	SAE #6	1.25	9+ (.75 * stroke) ++
2.5	8.00	1.00	1.5	2.25	3.25	SAE #8	1.50	12+ (1.00 * stroke)
3	8.00	1.00	1.5	2.25	3.75	SAE #8	1.50	18+ (1.00 * stroke)
3.5	10.00	1.25	2	2.25	4.25	SAE #8	1.75	28+ (.80 * stroke) ++
4	10.00	1.50	2.25	2.5	4.75	SAE #8	2.00	34+ (.85 * stroke) ++

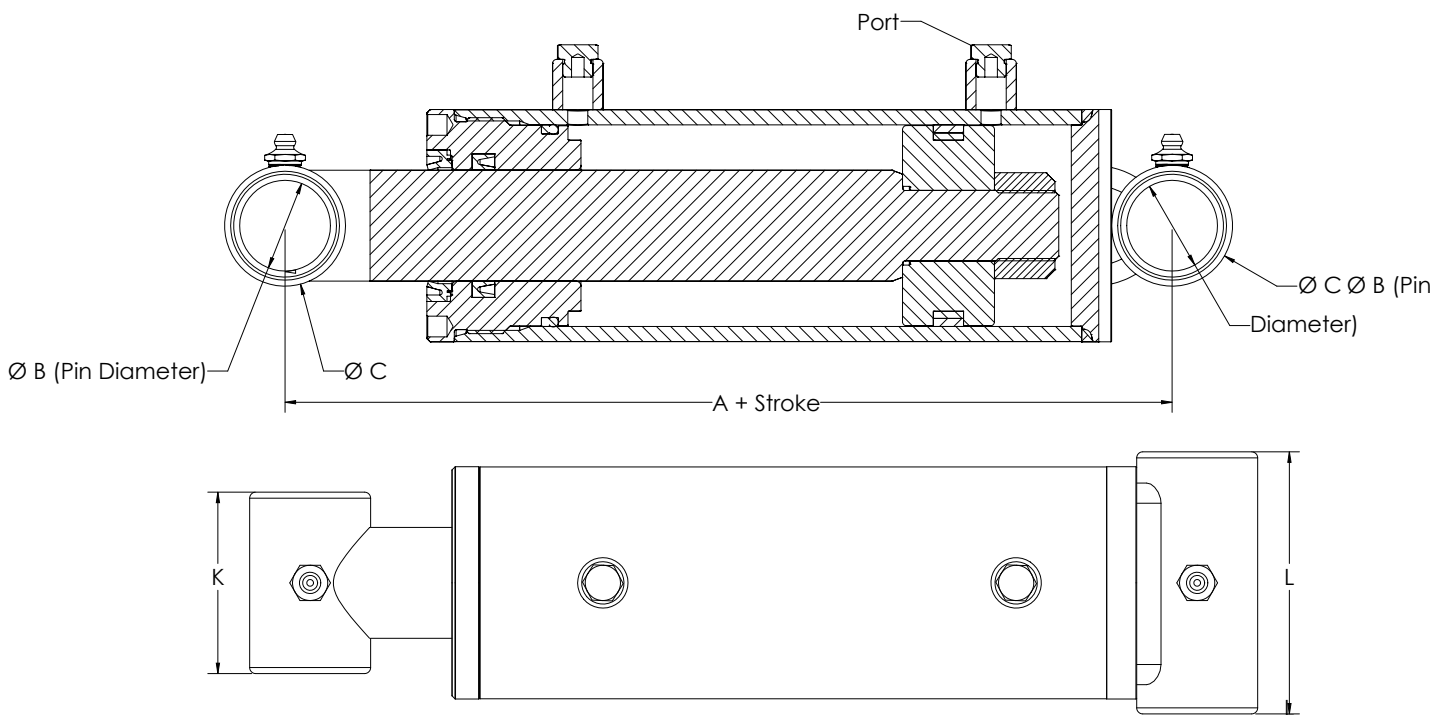
++ add 0.5 to multiplier for strokes $\geq 14"$ (i.e. change .75 to 1.25)

DESCRIPTION

- Piston seal - bronze impregnated PTFE piston ring w/rectangular nitrile expander; or optional polyurethane U-cup.
- Rod seal – polyurethane U-cup.
- Exterior finish powder painted black.
- Standard SAE ports, others thread types are available upon request.
- 100% pressure test to 1.3 times rated pressure.
- Chrome plated rod.

Model Number Breakdown

PX	20	04	BW
Bore Size (in)	Stroke (in)	Type:	Cross Tube Mounting



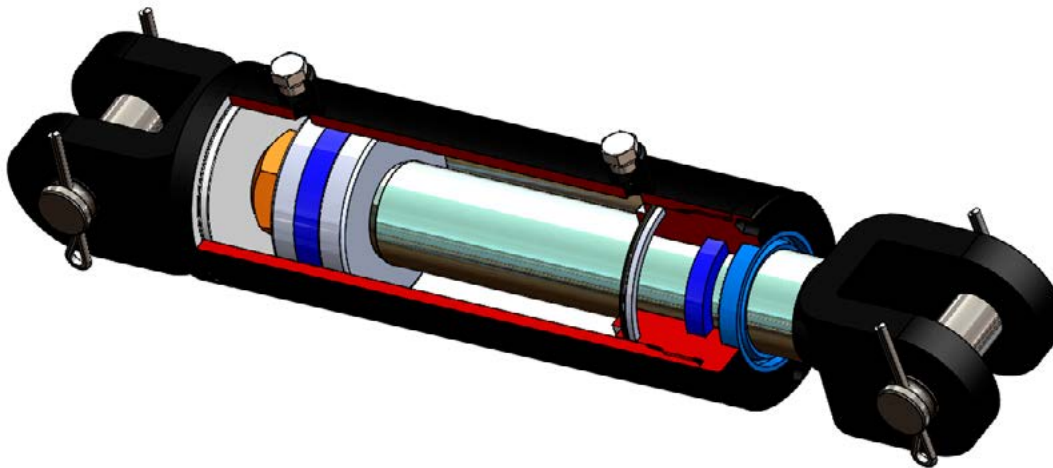
STANDARD BORE AND STROKE COMBINATIONS

		Bore (in)*					
		1.5"	2"	2.5"	3"	3.5"	4"
Stroke (in)*	4	•	•	•	•	•	•
	6	•	•	•	•	•	•
	8	•	•	•	•	•	•
	10	•	•	•	•	•	•
	12	•	•	•	•	•	•
	14	•	•	•	•	-	-
	16	•	•	•	•	-	•
	18	-	•	•	•	-	•
	20	-	•	•	•	•	•
	24	-	•	•	•	•	•
	28	-	•	•	•	-	-
	30	-	•	•	•	•	-
	32	-	•	•	•	•	-
	34	-	-	•	•	-	-
	36	-	•	•	•	•	-

• Standard bore and stroke combination.
- Non standard combination, please consult the factory for availability.
* Other bore and stroke combinations are available upon request.

WELDED CYLINDER

3000 PSI – DOUBLE ACTING CYLINDERS – FORMED CLEVIS MOUNT



Bore (in)	A (in)	B (in)	E (in)	L (in)	G (in)	Port	Rod Dia. (in)	Est. Calc. Wt. (lbs.)
2	10.25	1.00	1.13	2.13	2.13	SAE #6	1.25	11+ (.75 * stroke)
2.5	10.25	1.00	1.13	2.13	2.13	SAE #8	1.50	14.5+ (.95 * stroke)
3	10.25	1.00	1.13	2.13	2.13	SAE #8	1.50	22+ (.55 * stroke) ++
3.5	10.25	1.00+	1.13	2.38	2.00	SAE #8	1.75	26+ (.75 * stroke) ++
4	10.25	1.00+	1.63	3.13	1.75	SAE #8	2.00	32+ (.75 * stroke) ++

+ Larger pin diameters available upon request

++ add 0.5 to multiplier for strokes $\geq 14"$ (i.e. change .75 to 1.25)

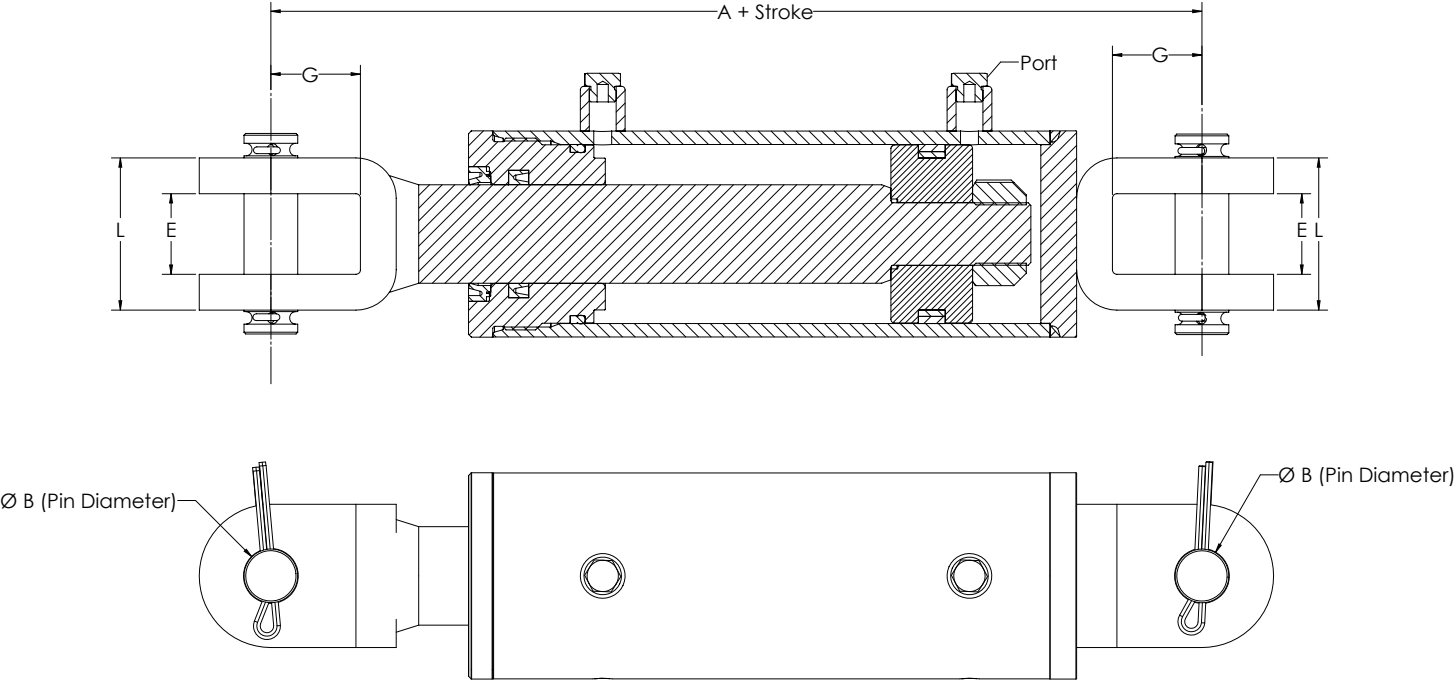
DESCRIPTION

- Piston seal - bronze impregnated PTFE piston ring w/rectangular nitrile expander; or optional polyurethane U-cup.
- Rod seal – polyurethane U-cup.
- Exterior finish powder painted black.
- Standard SAE ports, others thread types are available upon request.
- 100% pressure test to 1.3 times rated pressure.
- Chrome plated rod.

Model Number Breakdown

PX	20	04	CW
Bore Size (in)	Stroke (in)	Formed Clevis	

DOUBLE ACTING - FORMED CLEVIS MOUNT



STANDARD BORE AND STROKE COMBINATIONS

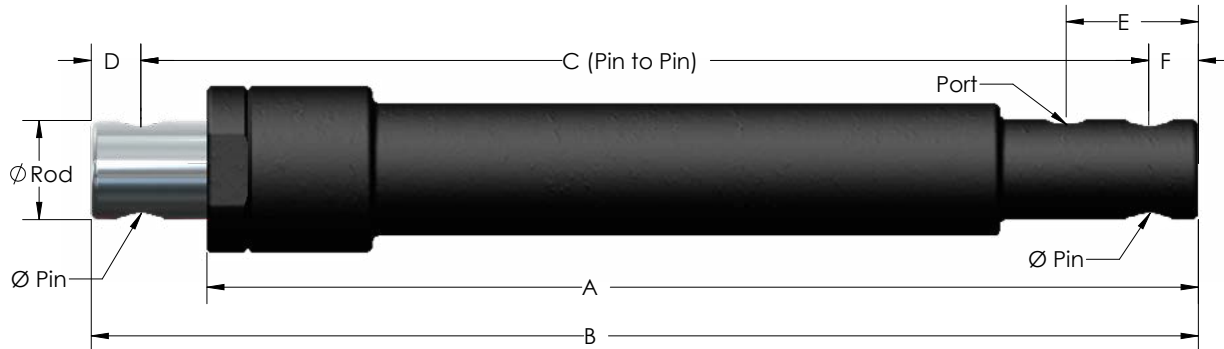
		Bore (in)*				
		2	2.5	3	3.5	4
Stroke (in)*	4	•	•	•	•	•
	6	•	•	•	•	•
	8	•	•	•	•	•
	10	•	•	•	•	•
	12	•	•	•	•	•
	14	•	•	•	•	•
	16	•	•	•	•	
	18	•	•	•	•	•
	20	•	•	•	•	
	24	•	•	•	•	•
	28	•	•	•	•	•
	30	•	•	•	•	
	32	•	•	•	•	•
	34	•	•	•	•	
	36	•	•	•	•	

• Standard bore and stroke combination.
- Non standard combination, please consult the factory for availability.
* Other bore and stroke combinations are available upon request.

WELDED CYLINDERS

3000 PSI - SINGLE ACTING - DRILLED ROD END AND BASE MOUNT

Replacement cylinders that fit Meyer, Western Diamond, Arctic, and Fisher snow plows



MODEL	Rod Dia. (in)	Stroke (in)	A (in)	B (in)	C (in)	D / F (in)	E (in)	Bore (in)	Pin Dia (in)	Weight (lbs.)
PX-M-SP-1506-0625	1.5	6	11.88	13.38	12.00	0.69	2.00	1.75	0.62	10
PX-M-SP-1510-0625		10	15.88	17.63	16.25					13
PX-M-SP-1512-0625		12	17.88	13.38	18.00					14
PX-M-SP-2012-0625	2.0		17.25	19.50		0.75	2.19	2.25		22
PX-W-SP-1506-0750	1.5	6	12.63	14.38	13.00	0.69	2.75	1.75	0.75	10
PX-W-SP-1508-0750		8	14.63	16.63	15.25					12
PX-W-SP-1510-0750		10	16.63	18.63	17.25					14
PX-W-SP-1510-1000										14
PX-W-SP-2006-0750	2.0	6	12.63	14.69	13.19	0.75		2.25	0.75	17
PX-W-SP-2010-1000		10	16.63	18.63	17.25	0.69		2.25	1.00	23
PX-W-SP-2016-1000		16	22.63	25"	23.63			2.25		29
PX-A-SP-1510-0750	1.5	10	16.63	18.50	17.00	0.75	2.75	1.75	0.75	12
PX-A-SP-1512-0750		12	18.63	20.50	19.00					14
PX-F-SP-1510-1000	1.5	10	16.38	18.75	17.25	0.75	2.69	1.75	1.00	14
PX-F-SP-1512-1000		12	18.44	20.88	19.38		2.63			14
PX-F-SP-2010-1000	2.0	10	16.13	18.75	17.25	0.88	1.72	2.25	1.25	21
PX-F-SP-2016-1250		16	22.50	25"	23.25		2.75			28

All ports are 1/4" NPT

DESCRIPTION

- Designed to fit Meyer, Western, Arctic and Fisher plow applications.
- Exterior finish powder painted black.
- Standard NPT ports.
- 100% pressure test to 1.3 times rated pressure.
- Chrome plated rod.

Model Number Breakdown				
PX	M	SP	15	06 0625
Plow OEM				Pin Dia. (in)
Meyer - M				0625 - 5/8"
Western Diamond - W				0750 - 3/4"
Arctic - A				1000 - 1"
Fisher - F				1250 - 1-1/4"
			Rod Dia. (in)	Stroke (in)
			1-1/2" - 15"	
			2" - 20	

MODULAR RUBBER BELLOWS

DESCRIPTION

- Modular design fits most applications.
- 3 rubber types available.
- Wide variety of sizes to fit your needs.
- Long lasting durability.
- **Custom bellows size and designs available.**

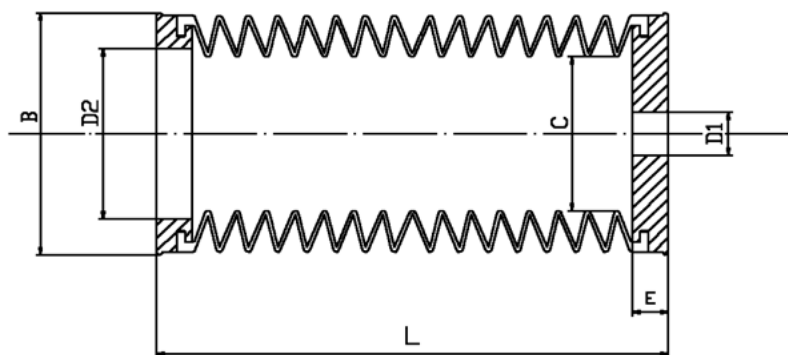
Rubber Types

NBR Rubber- good oil and fairly good exterior resistance | 240° F | BLACK

EPDM Rubber- very long outdoor resistance, low oil resistance | 230° F | BLACK

Silicone- food grade, high temperatures, long exterior duration | 390° F | ORANGE

		D1, D2				L without joint		L with 1 joint		L with 2 joint		Material		
SIZES	B	PRE-HOLE	MAX HOLE	C	E	CLOSE	OPEN	CLOSE	OPEN	CLOSE	OPEN	NBR	EPDM	SILI-CONE
X-Small BLW60	2.36	0.39	1.57	1.18	0.47	2.17	11.81	4.34	23.62	6.51	35.43	✓	✓	✓
Small BLW83	3.27	0.39	2.36	1.97	0.47	2.56	13.78	5.12	27.56	7.68	41.34	✓	✓	✓
Medium BLW106	4.17	0.39	3.15	2.76	0.47	1.57	8.66	3.14	17.32	4.71	25.98	✓	✓	✓
Medium long BLW106 L	4.17	0.39	3.15	2.17	0.47	3.94	29.53	7.88	59.06	11.82	88.59	✓	✓	✓
Large BLW120	4.72	0.39	3.94	2.48	0.51	3.74	27.56	7.48	55.12	11.22	82.68	✓	✓	✓
X-Large short BLW135	5.31	1.18	4.57	3.54	0.51	2.95	21.65	5.90	43.30	8.85	64.95	✓	✓	✓
X-Large medium BLW135BEM	5.31	1.18	4.57	3.35	0.51	5.12	37.40	10.24	74.80	15.36	112.20	n.a.	✓	n.a.
X-Large long BLW135BEL	5.31	1.18	4.57	2.83	0.51	5.51	43.31	11.02	86.62	16.53	129.93	n.a.	✓	n.a.



Collar Filter



Convolution Filter



Rigid Plastic Disc



Rubber bellows, joint & Collar

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*sold separately



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HYDRAULIC TRACTOR KITS

- ✓ Third function, multiplier, rear remote & power beyond kits
- ✓ Fits Kubota, Kioti, LS, Yanmar, Bobcat & John Deere
- ✓ Upgrade your tractor with additional implements



THIRD FUNCTION
KITS



REAR REMOTE
KITS



POWER BEYOND
KITS



FRONT & REAR
KITS

HYDRAULIC TOP & TILT CYLINDERS

- ✓ Top link & side link cylinders for 3-point hitches
- ✓ Complete top link, side link & top & tilt kits



QUICK DISCONNECT COUPLERS

- ✓ Agricultural ISO 5675 & flat face ISO 16028
- ✓ ISO 7241-A and ISO 7241-B standards
- ✓ Bobcat, CAT, John Deere & Kubota replacements



HYDRAULIC VALVES

- ✓ Hydraulic multipliers to run more implements
- ✓ Diverter valves for switching circuits on demand
- ✓ Control valves for flow & operation



ADAPTERS, FITTINGS, & REPLACEMENTS

- ✓ Complete switches, harnesses, joysticks, & connector sets
- ✓ Bobcat, CAT, John Deere & Kubota replacements available
- ✓ Included in kits or sold as individual components



INDUSTRIES
SERVED



AGRICULTURE



TRACTOR DEALERS



CONSTRUCTION



RENTAL



LANDSCAPING



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FULL INVENTORY

SHOP TRACTOR
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Warranty To Commercial Customers High Pressure Hydraulic Products

PowerX International, LLC warrants its products and parts to a **LIFETIME WARRANTY AGAINST ANY DEFECTS IN MATERIAL OR WORKMANSHIP.**

Any product proved to PowerX International, LLC satisfaction to be defective will be repaired or replaced, at PowerX International, LLC option, if returned to the nearest authorized service center, transportation charges prepaid. This does not include normal wear and tear or electrical and gasoline motors (which are covered under manufacturer's warranties). A full and complete explanation of the complaint, and proof of purchase date, must accompany the product. A return authorization number is required for all warranty claims. Please contact PowerX International, LLC for a RMA number. PowerX International, LLC sole obligation and the buyer's exclusive remedy under this warranty is limited to such repair or replacement.

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