

Pull cylinders - Lower flange models

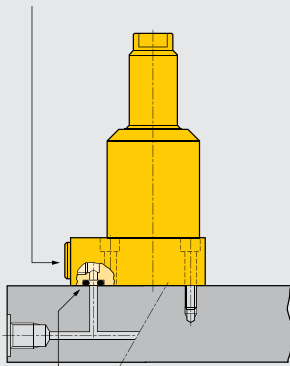
Shown: PLSS-51, PLSS-121



PL series

The lower flange cylinders are designed for integrated manifold mounting solutions. Hydraulic connections are made through SAE or BSPP oil connection or the standard integrated O-ring ports.

Oil connection



Integrated O-ring port

Minimal mounting height

...when space is at a premium

- Guided linear plunger movement
- Flexible design allows for manifold or threaded port connection
- Low profile mounting style allows body to be below mounting surface
- Internal plunger thread allows easy mounting of attachments
- Easiest mounting preparation in the line
- Easy to machine fixture hole: does not require tight tolerances
- Easy assembly: 3 or 4 mounting bolts
- Double oil connection: threaded port or manifold mount

Product selection

Cylinder capacity		Stroke	Model number	Cylinder effective area		Oil capacity	
lbs Pull	Push	in		in ² Pull	Push	in ³ Pull	Push
▼ Single acting							
1250	–	.89	PLSS-51	.28	–	.25	–
2950	–	1.10	PLSS-121	.63	–	.70	–
▼ Double acting							
1400	2950	.89	PLSD-51	.28	.59	.25	.53
2475	6300	.87	PLSD-92	.49	1.25	.42	1.08
3150	6150	1.10	PLSD-121	.63	1.23	.70	1.40
9600	18,400	1.20	PLSD-351	1.92	3.68	2.27	4.35

Note: - Call Enerpac to order models with BSPP oil connections.
- Pull forces for single-acting cylinders reduced due to spring force.

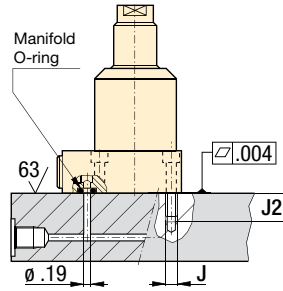
Dimensions in inches []

Model number	A	B	C1	D	D1	D2	E	E1	F	H
				∅			∅	∅		
▼ Single acting										
PLSS-51	5.07	4.18	0.98	1.37	2.13	2.25	0.63	0.59	0.51	0.55
PLSS-121	6.31	5.21	1.00	1.87	2.62	2.88	0.87	0.82	0.68	0.61
▼ Double acting										
PLSD-51	5.07	4.18	0.98	1.37	2.13	2.25	0.63	0.59	0.51	0.55
PLSD-92	5.43	4.57	0.98	1.88	2.76	2.13	0.98	0.93	0.7	0.49
PLSD-121	6.31	5.21	1	1.87	2.62	2.88	0.87	0.82	0.68	0.61
PLSD-351	8.04	6.83	0.98	3.14	3.94	3.5	1.5	1.42	1.13	0.49

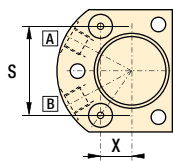
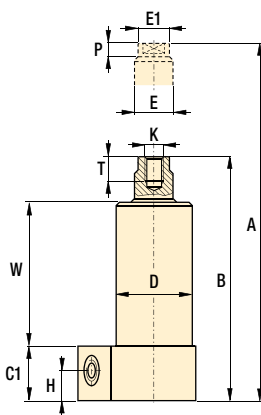
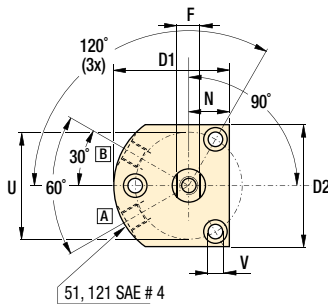
Installation dimensions in inches

Pull force lbs	Mounting thread J UNF	Minimum depth J2	Manifold O-ring ¹⁾ ARP numbers or inside Ø x thickness
1400	.250-28	.65	568-011
2475	M6	.59	.17 x .139
3150	.312-24	.80	568-011
9600	.375-24	.74	.17 x .139

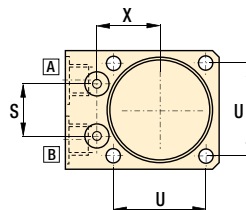
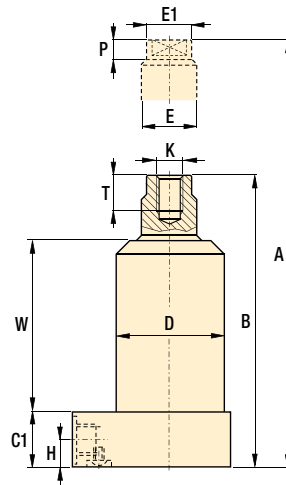
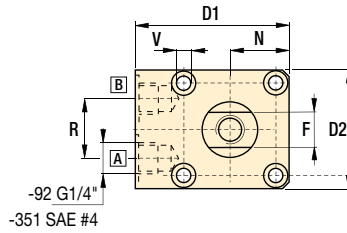
¹⁾ O-ring material: polyurethane, 92 Durometer



-51, -121



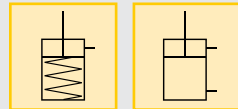
-92, -351



A = Pull
B = Push (venting)

- Pull force: 1250-9600 lbs**
- Push force: 2950-18,400 lbs**
- Stroke: .86-1.20 inch**
- Pressure: 500-5000 psi**

- E** Cilindros de tracción
- F** Verins traction
- D** Zugzylinder



Options

Accessories 86 ▶

Collet-Lok® push cylinders 18 ▶

Swing cylinders 22 ▶

Sequence valves 152 ▶

Important

Single-acting cylinders can be vented through the manifold port.

The lower flange pull cylinder has a bolt pattern which is identical to its upper flange equivalent, enabling interchangeability.

In case there is a risk of machining coolants and debris being inhaled via the breather vent, it is recommended to pipe this port to an area outside the fixture that is protected from machining coolants and debris.

	K	N	P	R	S	T	U	V	W	X	Model number	
											lbs	
Single acting ▼												
	.312-24 UNF	0.75	0.23	-	1.614	0.62	1.97	0.27	2.60	0.565	2.5	PLSS-51
	.500-20 UNF	0.99	0.37	-	2.048	0.75	2.50	0.35	3.38	0.717	3.5	PLSS-121
Double acting ▼												
	.312-24 UNF	0.75	0.23	-	1.614	0.62	1.97	0.27	2.60	0.565	2.5	PLSD-51
	M10 x 1.50	1.04	0.41	1.02	0.934	0.63	1.65	0.26	2.99	1.128	4.4	PLSD-92
	.500-20 UNF	0.99	0.37	-	2.048	0.75	2.50	0.35	3.38	0.717	3.5	PLSD-121
	M16 X 2.00	1.71	0.51	1.02	1.356	1.22	2.76	0.43	3.80	1.637	12.3	PLSD-351