

Swing clamps - Lower flange models

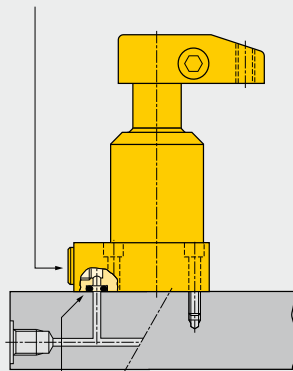
Shown: SLRD-52, SLRS-202



SL series

Enerpac lower flange series swing clamps can be bolted to the fixture, allowing easy installation of the unit and does not require machined fixture holes. Hydraulic connections are made through SAE or BSPP oil connection or the standard integrated O-ring ports.

BSPP oil connection



Integrated O-ring port

Lower flange swing clamps mounted to the face of the fixture.



No fixture hole required

...cylinder can be bolted directly to fixture

- Flexible design allows for manifold or threaded port connection
- No fixture hole preparation required
- Easiest mounting preparation in the swing cylinder line
- Symmetrical rectangular flange design enables clamping at three sides of the cylinder
- Allows extra large parts to be clamped
- 30, 45 and 60 degree swing angles available on request.

Product selection

Clamping force ¹⁾		Stroke		Left turning 90°	Right turning 90°	Cylinder effective area		Oil capacity	Max. oil flow ¹⁾	Standard clamp arm
mm						cm ²		cm ³		
kN	Clamp	Total				Clamp	Un-clamp	Clamp	Un-clamp	Sold separately 32 ▶
▼ Single acting			Model number ²⁾							
2,1	8	16,5	SLLS-22	SLRS-22	0,77	–	1,31	–	0,2	CAS-22
4,9	10	22,6	SLLS-52	SLRS-52	1,81	–	4,10	–	0,4	CAS-52
8,0	12	23,0	SLLS-92	SLRS-92	3,16	–	6,88	–	1,0	CAS-92
10,7	13	27,9	SLLS-121	SLRS-121	4,06	–	11,47	–	1,6	CAS-121
17,4	14	29,5	SLLS-202	SLRS-202	7,10	–	19,99	–	2,3	CAS-202
33,1	16	32,6	SLLS-352	SLRS-352	12,39	–	37,20	–	3,9	CAS-352

▼ Double acting										
				Model number ²⁾						
2,2	8	16,5		SLLD-22	SLRD-22	0,77	1,55	1,31	2,62	CAS-22
5,6	10	22,6		SLLD-52	SLRD-52	1,81	3,81	4,10	8,69	CAS-52
9,0	12	23,0		SLLD-92	SLRD-92	3,26	8,06	6,88	17,70	CAS-92
11,6	13	27,9		SLLD-121	SLRD-121	4,06	7,94	11,47	22,94	CAS-121
18,7	14	29,5		SLLD-202	SLRD-202	7,10	15,26	19,99	42,61	CAS-202
33,8	16	32,6		SLLD-352	SLRD-352	12,39	23,74	37,20	71,38	CAS-352

¹⁾ With standard clamp arm. Clamp arms are sold separately (page 32). Clamping forces for single-acting models are reduced in order to overcome return spring force.

²⁾ For models with straight plunger movement, replace L or R with S.

Note: Call Enerpac to order models with SAE port connections.

Dimensions in mm []

Left turning models	A	C	C1	D	D1	D2	F	G	H	K	M	
				Ø	Ø							
	▼ Single acting											
SLLS-22	112,1	79,5	96,1	27,9	47,2	45,0	10,0	G1/8"	13,5	16,0	–	
SLLS-52	135,3	93,5	116,1	34,8	54,0	57,2	16,0	G1/8"	14,0	19,3	–	
SLLS-92	152,2	104,1	127,1	47,9	70,0	54,0	25,0	G1/4"	12,5	25,0	15,0	
SLLS-121	171,5	113,3	141,2	47,5	66,4	73,2	22,2	SAE#4	15,4	30,4	–	
SLLS-202	175,0	115,3	144,9	63,8	85,0	70,0	32,0	G1/4"	12,5	30,2	23,2	
SLLS-352	197,3	124,7	157,3	79,7	100,0	89,0	38,0	G1/4"	12,5	40,0	27,4	
▼ Double acting												
SLLD-22	112,1	79,5	96,1	27,9	47,2	45,0	10,0	G1/8"	13,5	16,0	–	
SLLD-52	135,3	93,5	116,1	34,8	54,0	57,2	16,0	G1/8"	14,0	19,3	–	
SLLD-92	152,2	104,1	127,1	47,9	70,0	54,0	25,0	G1/4"	12,5	25,0	–	
SLLD-121	171,5	113,3	141,2	47,5	66,4	73,2	22,2	SAE#4	15,4	30,4	–	
SLLD-202	175,0	115,3	144,9	63,8	85,0	70,0	32,0	G1/4"	12,5	30,2	–	
SLLD-352	197,3	124,7	157,3	79,7	100,0	89,0	38,0	G1/4"	12,5	40,0	–	

NOTE: dimensions shown with standard clamp arm.

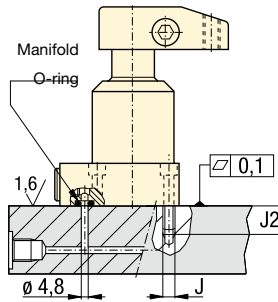
Installation dimensions in mm

Clamping force ¹⁾ kN	Mounting thread J	Minimum thread depth J2	Manifold O-ring ²⁾ ARP number or inside Ø x thickness
2,2	M5 x 0,8	16,5	568-010
5,6	M6 x 1,0	16,5	568-011
9,0	M6 x 1,0	15,0	4,32 x 3,53
11,6	312-24 UNF	20,3	568-011
18,7	M8 x 1,0	17,0	4,32 x 3,53
33,8	M10 x 1,25	18,8	4,32 x 3,53

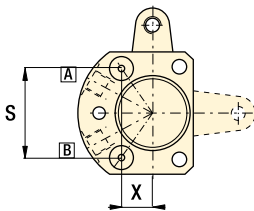
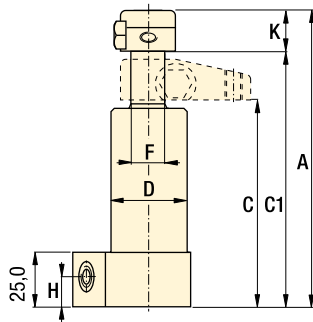
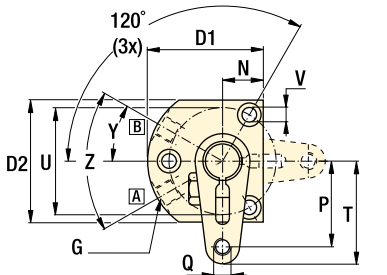
¹⁾ With standard clamp arm.

²⁾ Polyurethane, 92 Durometer

Note: Mounting bolts and O-rings included.

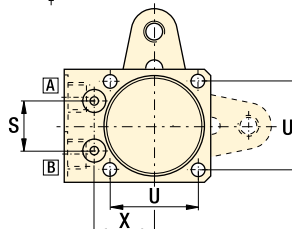
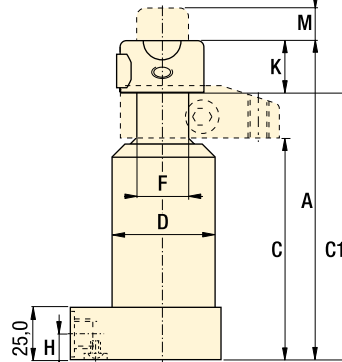
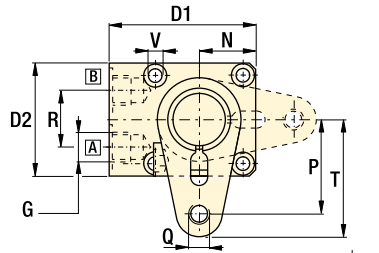


-22, 52, 121



[A] = Clamping
[B] = Unclamping (venting)

-92, 202, 352

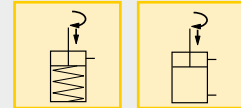


Force: 2,1 - 33,8 kN

Stroke: 16,5 - 32,6 mm

Pressure: 35 - 350 bar

- E Cilindros giratorios
- F Vérins de bridage pivotants
- D Schwenkspannzylinder



Options

Clamp arms

32 ▶



Work supports

43 ▶



Collet-Lok®
swing cylinders

12 ▶



Accessories

86 ▶



Important

30, 45, and 60 degree rotations are available upon request. Add -30, -45 or -60 to end of standard model number to order directly from Enerpac. To order rotation limiter separately, see page 32.

Custom cylinders including longer stroke lengths are available on request.

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.

Do not exceed maximum flow rates.

N	P	Q	R	S	T	U	V	X	Y	Z	kg	Right turning models
Ø												
Single acting ▼												
15,5	24,5	M6 x 1	-	21,0	31,0	40,1	5,8	18,1	30°	60°	0,5	SLRS-22
19,1	40,0	M8 x 1,25	-	41,0	48,0	50,0	6,9	14,4	30°	60°	1,1	SLRS-52
26,4	45,1	M10 x 1,5	25,9	23,7	56,1	41,9	6,6	28,7	-	-	2,0	SLRS-92
25,1	51,4	0,375-16 UNC	-	52,0	62,0	63,5	8,9	18,2	30°	60°	1,6	SLRS-121
34,4	55,2	M12 x 1,75	25,9	29,1	70,4	55,1	8,4	35,1	-	-	3,5	SLRS-202
43,4	67,9	M16 x 2	26,0	34,4	82,9	70,0	10,8	41,6	-	-	5,5	SLRS-352
Double acting ▼												
15,5	24,5	M6 x 1	-	21,0	30,9	41,9	5,7	18,1	30°	60°	0,5	SLRD-22
19,1	40,0	M8 x 1,25	-	41,0	47,9	50,0	6,8	14,4	30°	60°	1,1	SLRD-52
26,4	45,1	M10 x 1,5	26,0	23,7	56,0	42,0	6,5	28,6	-	-	2,0	SLRD-92
25,1	51,4	0,375-16 UNC	-	52,0	61,8	63,5	8,8	18,2	30°	60°	1,6	SLRD-121
34,4	55,2	M12 x 1,75	26,0	29,1	70,2	55,0	8,5	35,1	-	-	3,5	SLRD-202
43,4	67,9	M16 x 2	26,0	34,4	82,9	70,0	10,8	41,6	-	-	5,5	SLRD-352