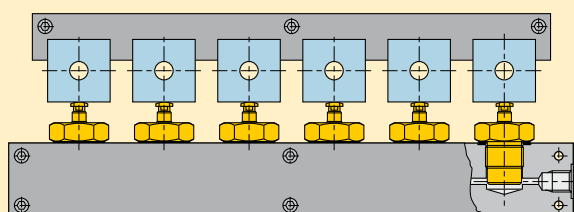


Manifold cylinders *Application & selection*

Shown: CSM-10132, CSM-572, CSM-18252



▶ These compact, fixture-integrated cylinders are designed for workpiece positioning, holding and ejecting applications where space is at a premium. No exposed tubing.



Six CSM series manifold cylinders are used to clamp piston blocks for machining. The hydraulic flow to the cylinders is side-ported in order to minimize the required manifold thickness.

■ Threaded cylinders are used here to position engine manifolds for drilling, tapping and mill finish.

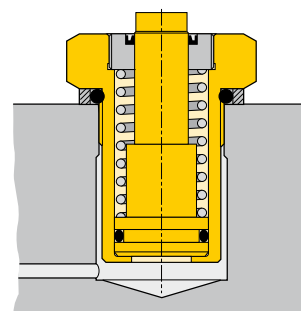


Compact, fixture-integrated positioning and holding

- Design eliminates the need for fittings and tubing, minimizing space requirements and facilitating easy removal of chips and dirt
- Minimal cylinder height enables extremely compact fixture designs
- High-strength bodies and internal plunger wipers allow maintenance-free, high cycle performance
- Center-tapped plungers will hold workpiece contact buttons.

i Manifold mount

Manifold cylinders are designed to be screwed directly into a manifold or fixture. Enerpac's manifold cylinders include a steel washer and O-ring providing an effective seal between the cylinder and manifold.



Product selection

Cylinder capacity at 350 bar	Stroke	Model number	Effective area	Oil capacity
kN	mm		cm ²	cm ³
1,7	7	CSM-272	0,5	0,4
1,7	13	CSM-2132	0,5	0,7
5,3	7	CSM-572	1,6	1,1
5,3	13	CSM-5132	1,6	2,0
11,3	7	CSM-1072	3,3	2,3
11,3	13	CSM-10132	3,3	4,3
11,3	19	CSM-10192	3,3	6,3
17,2	13	CSM-18132	5,1	6,6
17,2	25	CSM-18252	5,1	12,7
26,9	15	CSM-27152	7,9	11,8
26,9	25	CSM-27252	7,9	19,7

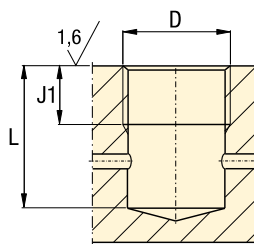
Note: - Seal material: Buna-N, Polyurethane.

Installation dimensions in mm []

Model number	D Thread	D2 min. ø	L min.
CSM-272	M12 x 1,5	11	22
CSM-2132	M12 x 1,5	11	33
CSM-572	M20 x 1,5	13	28
CSM-5132	M20 x 1,5	13	37
CSM-1072	M28 x 1,5	16	28
CSM-10132	M28 x 1,5	16	35
CSM-10192	M28 x 1,5	16	44
CSM-18132	M36 x 1,5	19	39
CSM-18252	M36 x 1,5	19	58
CSM-27152	M42 x 1,5	19	40
CSM-27252	M42 x 1,5	19	58

Note: - O-rings included.

Installation dimensions



Force: 1,7 - 26,9 kN

Stroke: 7 - 25 mm

Pressure: 40 - 350 bar

E Cilindros para colector

F Vérins pour bloc foré

D Einbauszylinder



Accessory chart

Plunger Thread K	Contact Bolt
M4 x 0,7	BS-42
M6 x 1	BS-62
M8 x 1,25	BS-82

Options

Contact bolts

86 ▶

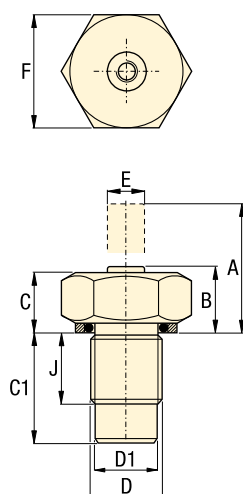


Important

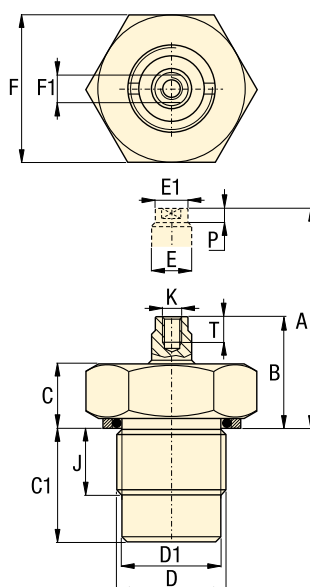
Tighten manifold cylinders according to specifications in the instruction sheet.

Return springs in single-acting cylinders should not be used to pull back heavy attachments.

CSM-272, 2132



other models



Product dimensions in mm []

Model number	A Ext. height	B Retr. height	C	C1	D	D1	E	E1	F	F1	J	K	P	T	kg
CSM-272	20,5	13,5	13,3	21,7	M12 x 1,5	10,1	4,8	-	19	-	11,4	-	-	-	0,1
CSM-2132	24,4	11,4	11,2	32,2	M12 x 1,5	10,1	4,8	-	19	-	11,4	-	-	-	0,1
CSM-572	23,5	16,5	12,5	27,5	M20 x 1,5	17,5	7,9	7	27	5,9	12,5	M4 x 0,7	4,0	7	0,2
CSM-5132	29,5	16,5	12,5	36,0	M20 x 1,5	17,5	7,9	7	27	5,9	12,5	M4 x 0,7	4,0	7	0,3
CSM-1072	27,3	20,3	14,8	27,1	M28 x 1,5	25,6	11,9	11	36	9,0	14,1	M6 x 1	5,5	8	0,5
CSM-10132	33,3	20,3	14,8	33,1	M28 x 1,5	25,6	11,9	11	36	9,0	14,1	M6 x 1	5,5	8	0,6
CSM-10192	39,3	20,3	14,8	48,6	M28 x 1,5	25,6	11,9	11	36	9,0	14,1	M6 x 1	5,5	8	0,7
CSM-18132	36,2	23,2	16,8	36,6	M36 x 1,5	34,2	15,9	15	46	12,0	18,1	M8 x 1,25	6,5	12	0,5
CSM-18252	48,2	23,2	16,8	56,1	M36 x 1,5	34,2	15,9	15	46	12,0	18,1	M8 x 1,25	6,5	12	0,6
CSM-27152	42,2	27,2	20,8	37,5	M42 x 1,5	39,7	17,9	17	55	15,0	16,9	M8 x 1,25	6,5	12	0,7
CSM-27252	52,8	27,8	21,3	56,0	M42 x 1,5	39,7	17,9	17	55	15,0	16,9	M8 x 1,25	6,5	12	0,9