

CSF - Single acting stainless steel cylinders with spring return

CSF-cylinders have the same excellent characteristics as the earlier CX/CXR-range. They are available in sizes from 11 (13*) to 88 (100*) ton lifting capacity and 50 to 200 mm stroke.

CSF-cylinders cope with off-center loads better than conventional cylinders; we have equipped them with extra large and robust piston guides.

The cylinder tube is manufactured from stainless steel and the piston is hard chrome plated; this means it can be used in exposed and rugged environments.

Unlike some of our competitors, we design our cylinders to utilize **100%** of the given capacity and stroke - maximum power is always available.

All CSF-cylinders are as standard equipped with spring return, piston wiper and quick coupling. Type CSF350 and larger have a carrying handle as well.

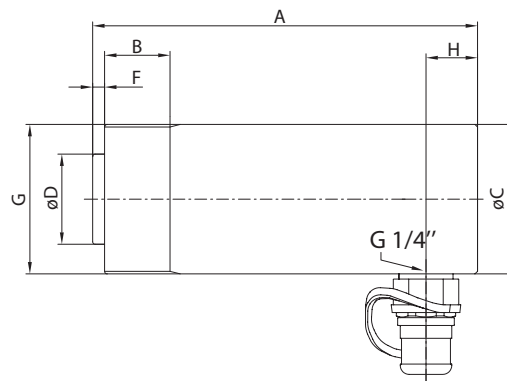
*CSF-series are approved for working pressures up to 80 MPa (800 bar).





Technical data

Name	Max. working pressure MPa (bar)	Capacity kN (t)		Stroke mm	Stroke volume cm ³	Piston ø mm	Piston area cm ²	Diameter mm	Height mm	Weight kg
		at 70MPa	at 80MPa							
CSF110-50	80 (800)	111 (11)	127 (13)	50	80	45	15,9	58	134	2,3
CSF110-100	80 (800)	111 (11)	127 (13)	100	159	45	15,9	58	184	3,0
CSF110-150	80 (800)	111 (11)	127 (13)	150	238	45	15,9	58	234	3,7
CSF220-25	80 (800)	218 (22)	249 (25)	25	78	63	31,2	80	115	3,7
CSF220-50	80 (800)	218 (22)	249 (25)	50	156	63	31,2	80	140	4,4
CSF220-100	80 (800)	218 (22)	249 (25)	100	312	63	31,2	80	190	5,9
CSF220-150	80 (800)	218 (22)	249 (25)	150	467	63	31,2	80	240	7,3
CSF220-200	80 (800)	218 (22)	249 (25)	200	623	63	31,2	80	290	8,7
CSF350-50	80 (800)	352 (36)	402 (41)	50	241	80	50,2	105	146	8,5
CSF350-100	80 (800)	352 (36)	402 (41)	100	502	80	50,2	105	196	11,0
CSF350-200	80 (800)	352 (36)	402 (41)	200	1005	80	50,2	105	296	15,6
CSF550-50	80 (800)	550 (56)	628 (64)	50	393	100	78,5	130	160	14,0
CSF550-100	80 (800)	550 (56)	628 (64)	100	785	100	78,5	130	210	17,7
CSF550-200	80 (800)	550 (56)	628 (64)	200	1570	100	78,5	130	310	24,9
CSF860-50	80 (800)	859 (88)	982 (100)	50	613	125	122,6	160	183	23,7
CSF860-100	80 (800)	859 (88)	982 (100)	100	1227	125	122,6	160	233	28,9
CSF860-200	80 (800)	859 (88)	982 (100)	200	2453	125	122,6	160	333	39,3



Name	Capacity kN (t) at 70MPa	A mm	B mm	C ø mm	D ø mm	F mm	G Ext. thread	H mm
CSF110-50	111 (11)	134	25	58	35	6	M58x2	20
CSF110-100	111 (11)	184	25	58	35	6	M58x2	20
CSF110-150	111 (11)	234	25	58	35	6	M58x2	20
CSF220-25	218 (22)	115	30	80	52	7	M80x3	20
CSF220-50	218 (22)	140	30	80	52	7	M80x3	20
CSF220-100	218 (22)	190	30	80	52	7	M80x3	20
CSF220-150	218 (22)	240	30	80	52	7	M80x3	20
CSF220-200	218 (22)	290	30	80	52	7	M80x3	20
CSF350-50	352 (36)	146	25	105	70	7	M105x3	20
CSF350-100	352 (36)	196	25	105	70	7	M105x3	20
CSF350-200	352 (36)	296	25	105	70	7	M105x3	20
CSF550-50	550 (56)	160	25	130	80	7	M130x3	32
CSF550-100	550 (56)	210	25	130	80	7	M130x3	32
CSF550-200	550 (56)	310	25	130	80	7	M130x3	32
CSF860-50	859 (88)	183	30	160	100	9	M160x3	35
CSF860-100	859 (88)	233	30	160	100	9	M160x3	35
CSF860-200	859 (88)	333	30	160	100	9	M160x3	35



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