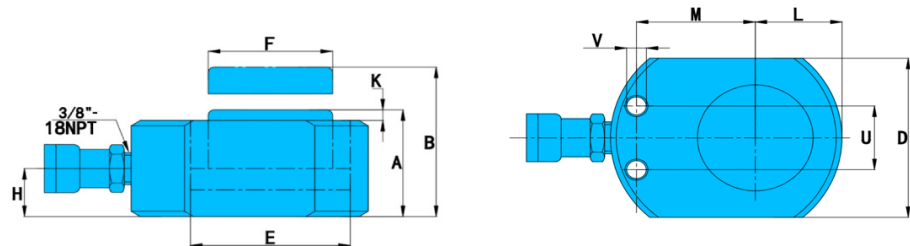




SF SERIES (Flat)

- Flat design for low height space requirement.
- Mounting holes supply an easy fixture.
- Special designed cup seal provides for steady and durable performance.
- High strength alloy steel body is durable for long working life.
- Heavy duty return spring supply a fast and steady retraction.
- Chrome plated rod prevent rust and corrosion.



Model	Capacity (tons)	Stroke		Oil Cap.		Bore Dia.		Cylinder Effective Area		Weight	
		mm	inch	cm ³	inch ³	mm	inch	cm ²	inch ²	kg	lbs
SF-50	5	6	0.24	4.3	0.26	30	1.18	7.1	1.10	0.6	1.3
SF-100	10	10	0.39	15.9	0.97	45	1.77	15.9	2.46	1.5	3.3
SF-200	20	11	0.43	31.1	1.90	60	2.36	28.3	4.39	2.7	6.0
SF-300	30	13	0.51	53.3	3.25	73	2.87	41.8	6.48	4.3	9.5
SF-500	50	16	0.63	99.5	6.07	89	3.50	62.2	9.64	6.7	14.8
SF-1000	90	16	0.63	212.3	12.96	130	5.12	132.7	20.57	14.5	32.0
SF-1500	150	16	0.63	321.6	19.63	160	6.30	201.0	31.16	26.3	58.0

Model	A Retracted Height		B Extended Height		D Outside Dia.		E Cylinder Bore Dia.		F Piston Dia.		H Base to Port		K Saddle Height		M Piston to mount hole		U Bolt circle		V Hole dia.		Hole Depth		L Piston to base	
	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
SF-50	33	1.30	39	1.54	59x42	2.32 x 1.65	30	1.18	25	0.98	18	0.71	1	0.04	23	0.91	29	1.14	5	0.20	4.3	0.17	21	0.83
SF-100	43	1.69	53	2.09	83x56	3.27 x 2.20	45	1.77	36	1.42	19	0.75	1	0.04	34	1.34	37	1.46	7	0.28	7.9	0.31	28	1.10
SF-200	51	2.01	62	2.44	101x76	3.98 x 2.99	60	2.36	50	1.97	19	0.75	1	0.04	40	1.57	49	1.93	10	0.39	9.9	0.39	40	1.57
SF-300	58	2.28	71	2.80	117x95	4.61 x 3.74	75	2.95	65	2.56	19	0.75	2	0.08	45	1.77	52	2.05	11	0.43	11.2	0.44	48	1.89
SF-500	67	2.64	83	3.27	140x114	5.51 x 4.49	90	3.54	80	3.15	19	0.75	2	0.08	54	2.13	67	2.64	12	0.47	12.7	0.50	57	2.24
SF-1000	86	3.39	102	4.02	178x153	7.01 x 6.02	130	5.12	92	3.62	19	0.75	2	0.08	74	2.91	76	2.99	14	0.55	14.2	0.56	76	2.99
SF-1500	100	3.94	116	4.57	215x190	8.46 x 7.48	160	6.30	115	4.53	23	0.91	2	0.08	82	3.23	117	4.61	14	0.55	14.2	0.56	95	3.74