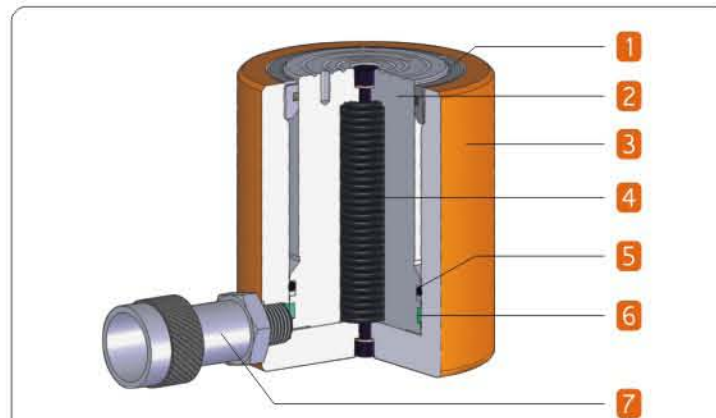
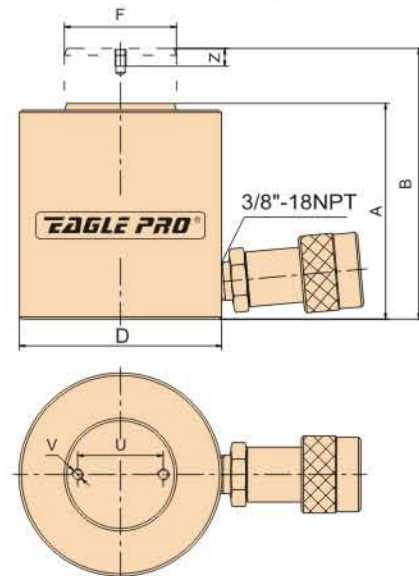


ESL-SERIES

Features

- ◆ Low profile design for use in confined spaces.
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Single-acting spring return.
- ◆ High quality EAB-201 quick couplers.
- ◆ Grooved piston ram with threaded holes for mounting tilt saddles.
- ◆ Environmentally friendly painting process provides a durable anti-corrosion finish.



1. Steel guide ring eliminates over travel, and also provides support to reduce wear from off center loads.
2. Hardened and chromed piston increase durability and reduces wear.
3. All steel body with baked enamel finish for durability.
4. High strength return spring .
5. Industrial seal ring assembly prevent costly leaks.
6. Bearing ring provides additional support to reduce wear from off center loads.
7. Standard coupler on all cylinders provided with heavy duty dust cover.

Optional Tilt Saddle

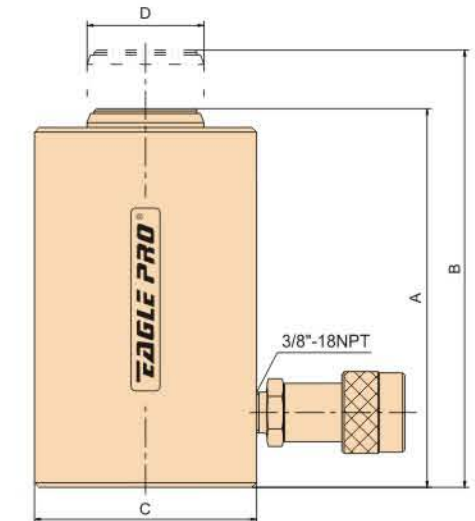
Cylinder Model	Tilt Saddle Model
ESL-101	ST-11
ESL-201,302, 502	ST-51
ESL-1002	ST-101

Note: for more information please see the page 56

Cylinder Capacity @ 700 Bar (10,000 PSI)	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Piston Rod Diam.	Upside Holes			Weight
									Thread V	Bolt Circle U	Thread Depth Z	
Metric Ton (US Ton)	in		in ²	in ³	A	B	D	F	mm	in	in	lbs
10 (11)	1.50	ESL-101	2.23	3.34	3.46	4.96	2.72	1.50	M4	1.02	0.31	9.02
20 (22)	1.77	ESL-201	4.39	7.77	3.86	5.63	3.62	2.01	M5	1.54	0.31	10.34
30 (33)	2.44	ESL-302	6.48	15.81	4.61	7.05	4.02	2.60	M5	1.54	0.31	14.96
50 (49)	2.36	ESL-502	9.86	23.28	4.80	7.17	4.88	2.76	M5	1.54	0.31	22.22
100 (102.2)	2.24	ESL-1002	20.58	46.17	5.55	7.80	6.50	3.62	M8	2.17	0.43	42.24



Shown from left to right: ESA-202, ESA-304



ESA-SERIES SINGLE ACTING, ALUMINUM CYLINDERS

Features

- ◆ Low weight, easy to carry.
- ◆ High strength aluminum material treated to resist wear and corrosion.
- ◆ For use in extreme environments.
- ◆ Single acting, spring return.

Cylinder Capacity @ 700 Bar (10,000 PSI)	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Piston Rod Diam.	Weight
Metric Ton (US Ton)	in		in ²	in ³	in	in	in	in	lbs
20 (22)	2.13	ESA-202	4.39	9.32	6.38	8.50	3.74	1.97	7.7
	4.13	ESA-204	4.39	18.13	8.39	12.52	3.74	1.97	9.46
	6.14	ESA-206	4.39	26.93	10.37	16.52	3.74	1.97	11.44
30 (33)	2.13	ESA-302	6.85	14.56	7.38	9.51	4.29	2.56	11.44
	4.13	ESA-304	6.85	28.31	9.37	13.50	4.29	2.56	13.42
	6.14	ESA-306	6.85	42.06	11.38	17.52	4.29	2.56	16.72
50 (55)	2.13	ESA-552	10.99	23.35	6.75	8.88	5.28	3.15	15.84
	4.13	ESA-554	10.99	45.41	8.74	12.87	5.28	3.15	19.58
	6.14	ESA-556	10.99	67.47	10.75	16.89	5.28	3.15	23.98
100 (103)	2.13	ESA-1002	20.62	43.81	7.76	9.88	7.40	4.13	34.76
	6.26	ESA-1006	20.62	129.00	11.75	18.01	7.40	4.13	49.5