



Shown from left to right:  
ES-1010, ES-256, ES-252  
ES-10010, ES-504, ES-59, ES-2510

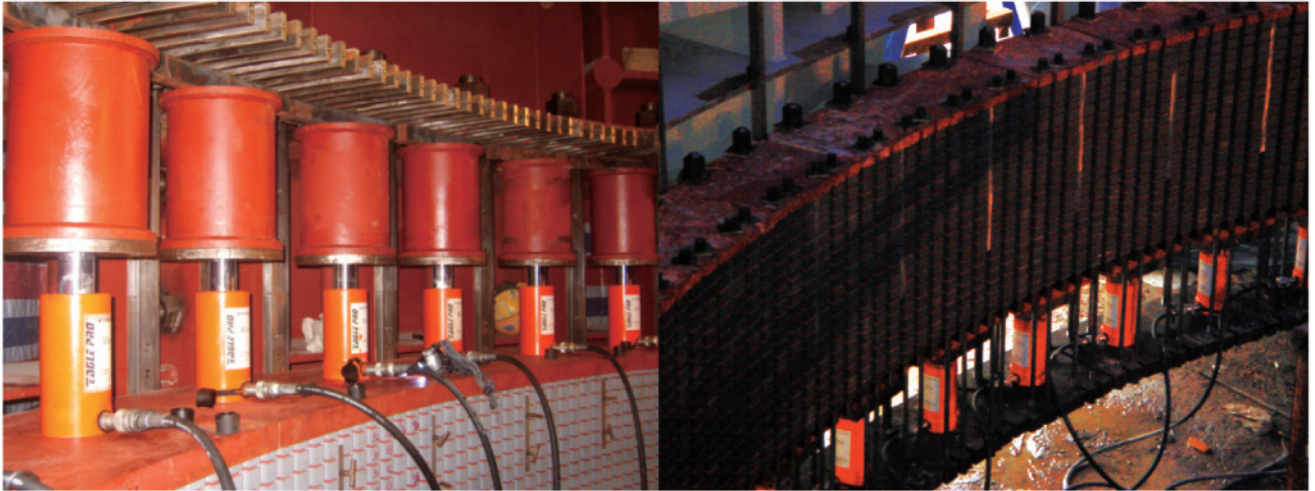
## **ES-SERIES**

### **GENERAL PURPOSE, SINGLE ACTING CYLINDERS**


#### **▶ Features**


- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Hardened and chromed piston increase durability and reduces wear.
- ◆ Collar threads, piston threads and base mounting holes enable easy fixturing.
- ◆ Heavy-duty piston return springs.
- ◆ High quality EAB-201 quick couplers.
- ◆ Environmentally friendly painting process provides a durable anti-corrosion finish.


# ES-SERIES





106 EAGLE PRO ES-306 single acting cylinders are used to press the laminates into the stator core hold down gear.


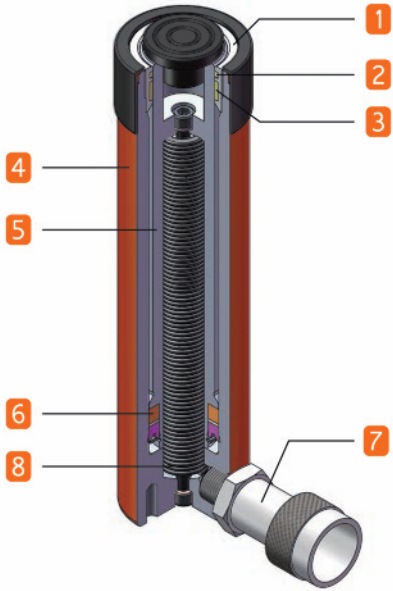
 Quality pressure hoses



 Use with EV-23 manually operated check valve for load holding



 Pressure gauges available to monitor system pressure

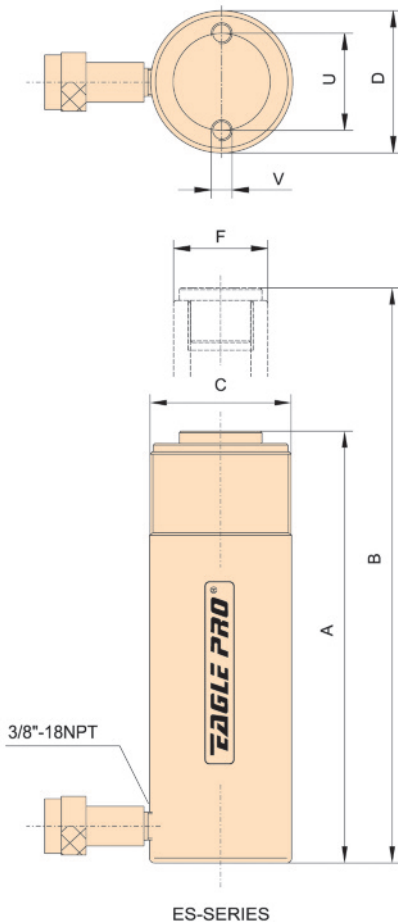



1. Guide Ring eliminates over travel, and provides support to reduce wear from off center loads.
2. Heavy-duty wiper ring keep dust and debris out of cylinder body, improving performance and service life of cylinder.
3. Bearing ring provides additional support to reduce wear from off center loads.
4. All steel body with baked enamel finish for durability.
5. Hardened and chromed piston increase durability and reduces wear.
6. Secondary gasket and industrial seal ring assembly prevent costly leaks.
7. Standard coupler on all cylinders provided with heavy duty dust cover.
8. High strength return spring.

# ES-SERIES


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### GENERAL PURPOSE, SINGLE ACTING CYLINDERS





Cylinder Capacity @700bar ton	Stroke in	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height
			in <sup>2</sup>	in <sup>3</sup>	A in
5	0.63	ES-50	1.09	0.67	1.61
	0.98	ES-51	1.09	1.04	4.33
	2.99	ES-53	1.09	3.23	6.50
	5.00	ES-55	1.09	5.31	8.50
	7.01	ES-57	1.09	7.50	10.75
	9.13	ES-59	1.09	9.76	12.76
10	0.98	ES-101	2.25	2.32	3.54
	2.13	ES-102	2.25	4.76	4.76
	4.13	ES-104	2.25	9.21	6.73
	6.14	ES-106	2.25	13.73	9.76
	7.99	ES-108	2.25	17.93	11.73
	10.12	ES-1010	2.25	22.57	13.74
	12.01	ES-1012	2.25	26.84	15.75
15	14.02	ES-1014	2.25	31.42	17.76
	0.98	ES-151	3.26	3.20	4.88
	2.01	ES-152	3.26	6.56	5.87
	4.02	ES-154	3.26	13.05	7.87
	5.98	ES-156	3.26	19.46	10.71
	7.99	ES-158	3.26	25.62	12.68
	10.00	ES-1510	3.26	32.51	14.69
25	12.01	ES-1512	3.26	39.04	16.69
	14.02	ES-1514	3.26	45.57	18.70
	0.98	ES-251	5.15	5.19	5.51
	2.01	ES-252	5.15	10.31	6.50
	4.02	ES-254	5.15	20.68	8.50
	6.26	ES-256	5.15	32.21	10.75
	8.27	ES-258	5.15	42.52	12.76
30	10.24	ES-2510	5.15	52.64	14.76
	12.24	ES-2512	5.15	63.01	16.73
	14.25	ES-2514	5.15	73.32	18.74
	8.27	ES-308	6.51	56.06	15.24
	50	2.01	ES-502	10.97	22.08
4.02		ES-504	10.97	44.04	8.94
6.26		ES-506	10.97	68.75	11.14
13.27		ES-5013	10.97	145.67	18.15
75	6.14	ES-756	16.09	98.76	11.26
	13.15	ES-7513	16.09	211.49	19.37
90	6.61	ES-1006	20.55	135.73	14.06
	10.24	ES-10010	20.55	210.15	17.68



# ES-SERIES




Quality pressure hoses

Pressure gauges available to monitor system pressure

Optional tilting and threaded saddles available



Extended Height B in	Collar Diam C in	Outside Diameter D in	Piston Rod Diam. F in	Base Fix Holes		Weight lbs	Model
				Bolt Circle U in	Thread V in		
2.24	—	2.32X1.65	0.98	1.10	0.22	2.2	ES-50
5.31	1 1/2"-16	1.50	0.98	0.98	1/4"-20UN	2.2	ES-51
9.49	1 1/2"-16	1.50	0.98	0.98	1/4"-20UN	3.3	ES-53
13.50	1 1/2"-16	1.50	0.98	0.98	1/4"-20UN	4.18	ES-55
17.76	1 1/2"-16	1.50	0.98	0.98	1/4"-20UN	5.28	ES-57
21.89	1 1/2"-16	1.50	0.98	0.98	1/4"-20UN	6.16	ES-59
4.53	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	3.96	ES-101
6.89	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	5.06	ES-102
10.87	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	7.26	ES-104
15.91	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	9.68	ES-106
19.72	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	11.88	ES-108
23.86	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	14.08	ES-1010
27.76	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	14.96	ES-1012
31.77	2 1/4"-14	2.24	1.50	1.54	5/16"-18UN	18.04	ES-1014
5.87	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	7.26	ES-151
7.87	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	9.02	ES-152
11.89	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	11	ES-154
16.69	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	14.96	ES-156
20.67	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	18.04	ES-158
24.68	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	20.9	ES-1510
28.70	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	23.98	ES-1512
32.72	2 3/4"-16	2.72	1.65	1.85	3/8"-16UN	25.96	ES-1514
6.50	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	12.98	ES-251
8.50	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	14.08	ES-252
12.52	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	18.04	ES-254
17.01	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	22	ES-256
21.02	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	27.06	ES-258
25.00	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	31.02	ES-2510
28.98	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	35.86	ES-2512
32.99	3 5/16"-12	3.39	2.24	2.28	1/2"-13UN	38.94	ES-2514
23.50	3 5/16"-12	4.02	2.24	—	—	39.82	ES-308
8.94	5"-12	5.00	3.15	3.74	1/2"-13UN	33	ES-502
12.95	5"-12	5.00	3.15	3.74	1/2"-13UN	42.02	ES-504
17.40	5"-12	5.00	3.15	3.74	1/2"-13UN	51.04	ES-506
31.42	5"-12	5.00	3.15	3.74	1/2"-13UN	82.94	ES-5013
17.40	5 3/4"-12	5.75	3.74	—	—	64.9	ES-756
32.52	5 3/4"-12	5.75	3.74	—	—	129.8	ES-7513
20.67	6 7/8"-12	7.01	4.13	5.47	3/4"-10UN	129.8	ES-1006
27.91	6 7/8"-12	7.01	4.13	5.47	3/4"-10UN	159.72	ES-10010