ESH-SERIES

Features

- Hollow piston design allows for both pull and push forces.
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- Single-acting, spring return.
- ◆ High quality EAB-201 and EAB-202 quick couplers.
- ◆ Collar threads, piston threads for easy fixturing.
- Environmentally friendly painting process provides a durable anti-corrosion finish.



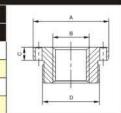
Shown from left to right: ESH-302, ESH-120

ESH-SERIES

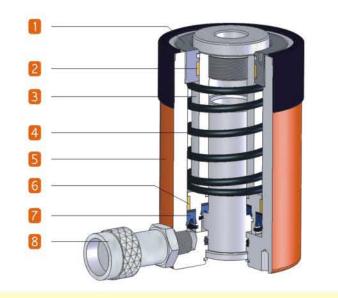
SINGLE ACTING HOLLOW CENTER CYLINDERS

Optional Heat Treated Hollow Saddles

		Saddle Dimensions			
ylinder Model Number	Saddle Model Number	Α	В	С	D
		in	mm	in	mm
ESH-202, 206	SH-2015	2.09	1"-8UNC	0.35	1 9/19"-16UN
ESH-302, 306	SH-3015	2.48	1 1/4"-7UN	0.35	1 13/16"-16UN
ESH-603, 606	SH-5016	3.58	1 5/8"-5 1/2UN	0.47	2 3/4"-16UN
ESH-1003	SH-10016	4.96	2 1/2"-8UN	0.51	4"-16UN



Cylinder Capacity @ 700 Bar	Stroke	84-343	Cylinder Effective	Oil Capacity	Collapsed Height	Extended Height	Collar Thread	Collar Thread Length	Outside Diameter	Piston Rod Diam.
(10,000 PSI)		Model	Area	Сараску	A	В	С	X	D	F
Metric Ton (US Ton)	in		in ²	in ³	in	in	in	in	in	in
	0.31	ESH-120	2.87	0.90	2.17	2.48	23/4"-16	1.18	2.76	1.38
13 (14.3)	1.65	ESH-121	2.87	4.74	4.72	6.38	23/4"-16	1.18	2.76	1.38
	2.99	ESH-123	2.87	8.58	7.24	10.24	2 3/4"-16	1.18	2.76	1.38
00 (00)	1.93	ESH-202	5.08	9.80	6.38	8.31	3 7/8"-12	1.50	3.90	2.17
20 (22)	6.10	ESH-206	5.08	31.01	12.05	18.15	3 7/8"-12	1.50	3.90	2.17
30 (33)	2.52	ESH-302	7.39	18.62	7.01	9.53	4 1/2"-12	1.65	4.53	2.56
30 (33)	6.10	ESH-306	7.39	45.10	12.99	19.09	4 1/2"-12	1.65	4.53	2.56
00 (00)	2.99	ESH-603	13.56	40.57	9.69	12.68	6 1/4"-12	1.89	6.26	3.62
60 (66)	6.02	ESH-606	13.56	81.66	12.72	18.74	6 1/4"-12	1.89	6.26	3.62
95 (104.5)	2.99	ESH-1003	20.97	62.73	10.00	12.99	8 3/8"-12	2.36	8.35	5.00

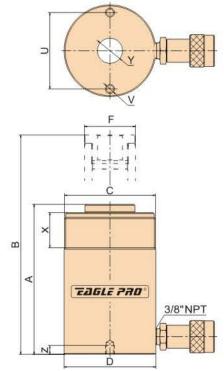


- 1. Steel Guide ring eliminates over travel, and provides support to reduce wear from off center loads.
- 2. Bearing ring provides additional support to reduce wear from off center loads.
- 3. Hardened and chromed piston increase durability and reduces wear.
 - 4. High strength return spring.
 - 5.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

	1	Center Hole	es	Base Fix Hole	
Model	Weight	Diameter	Thread Depth	Thread	Bolt Circle
Model		Y	Z	V	U
	lbs	in	in	UNC	in
ESH-12	3.3	0.77	0.35	5/16"-18	2.00
ESH-12	6.16	0.77	-	-	_
ESH-12	9.68	0.77	0.35	5/16"-18	2.00
ESH-20	16.06	1.06	0.37	3/8"-16	3.25
ESH-20	29.48	1.06	0.37	3/8"-16	3.25
ESH-30	23.1	1.31	0.55	3/8"-16	3.63
ESH-30	42.46	1.31	0.55	3/8"-16	3.63
ESH-60	60.28	2.12	0.55	1/2"-13	5.13
ESH-60	76.56	2.12	0.55	1/2"-13	5.13
ESH-10	130.9	3.11	0.79	5/8"-11	7.00



4 EAGLE PRO ESH-306 pulling threaded bar in a the largest heat exhanger in SONDEX's factory in Ningbo China.



Note: ESH-120, ESH-121 and ESH-123 have EAB-202A coupler, and 1/4" NPT port. The other models have EAB-201A coupler