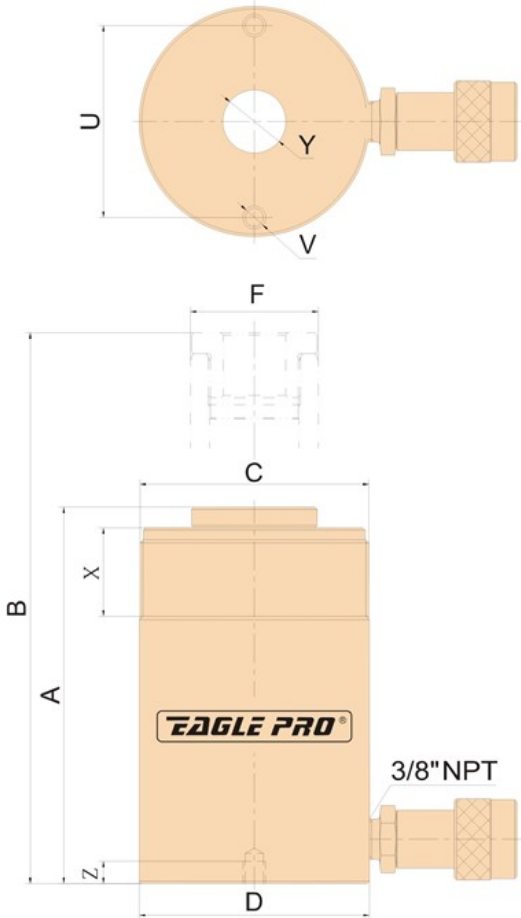


ESH Series Hydraulic Cylinders

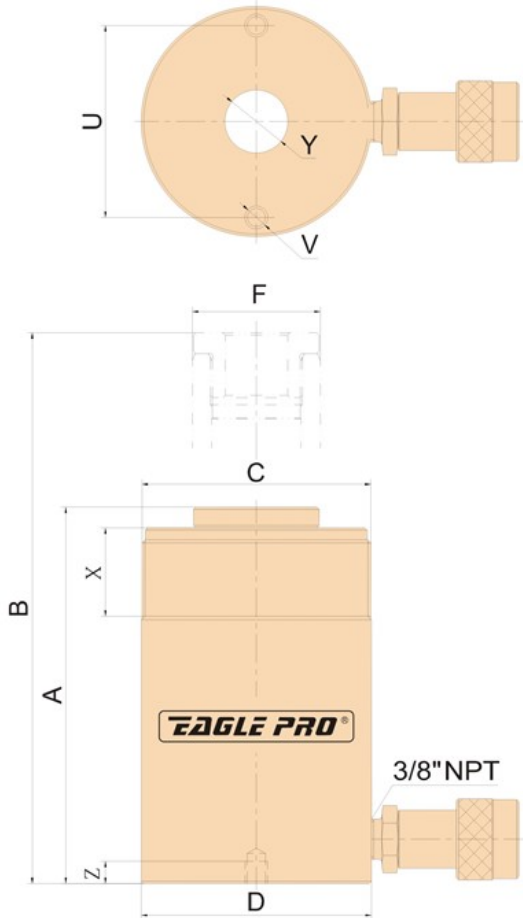


Imperial Measurements

MODEL	CYLINDER CAPACITY @ 10,000 PSI (700 BAR)	STROKE	CYLINDER EFFECTIVE AREA	OIL CAPACITY	COLLAPSED HEIGHT		EXTENDED HEIGHT		COLLAR THREAD	COLLAR THREAD LENGTH	OUTSIDE DIAMETER	PISTON DIAMETER	PISTON INTERNAL THREAD	PISTON THREAD LENGTH	BASE FIXTURING HOLES			CENTER HOLE DIAMETER	WEIGHT					
					A	B	C	X							D	F	O			P	U	V	Z	Y
					IN	IN	IN	IN							IN	IN	IN			IN	IN	IN	IN	IN
ESH-120	13 (14.3)	0.31	2.87	0.90	2.17	2.48	2-3/4 -16	1.18	2.76	1.38	3/4 - 16UN	0.63	2.00	5/16-18UNC	0.35	0.77	16.06							
ESH-121		1.65		4.74	6.38	-							-	-	16.06									
ESH-123		2.99		8.58	7.24	10.24							2.00	5/16-18UNC				0.35	9.68					
ESH-202	20 (22)	1.93	5.08	9.80	6.38	8.31	3-7/8 -12	1.50	3.90	2.17	1-9/16 - 16UN	0.75	3.25	3/8 - 16UNC	0.37	1.06	29.48							
ESH-206		6.10		31.01	12.05	18.15																		
ESH-302	30 (33)	2.52	7.39	18.62	7.01	9.53	4-1/2 - 12	1.65	4.53	2.56	1-13/16 - 16UN	0.87	3.63	0.55	1.31	23.10								
ESH-306		6.10		45.10	12.99	19.09																		
ESH-603	60 (66)	2.99	13.56	40.57	9.69	12.68	6-1/4 - 12	1.89	6.26	3.62	2-3/4 - 16UN	0.75	5.13	1/2 -13UNC	2.12	60.28								
ESH-606		6.02		81.66	12.72	18.74																		
ESH-1003	95 (104.5)	2.99	20.97	62.73	10.00	12.99	8-3/8 - 12	2.36	8.35	5.00	4 - 16UN	0.98	7.00	5/8 -11UNC	0.79	3.11	130.90							

NOTE: ESH-120, ESH-121 AND ESH-123 HAVE EAB-202A COUPLER, AND 1/4" NPT PORT.

ESH Series Hydraulic Cylinders



Metric Measurements

MODEL	CYLINDER CAPACITY @ 10,000 PSI (700 BAR)	STROKE	CYLINDER EFFECTIVE AREA	OIL CAPACITY	COLLAPSED HEIGHT	EXTENDED HEIGHT	COLLAR THREAD	COLLAR THREAD LENGTH	OUTSIDE DIAMETER	PISTON DIAMETER	PISTON INTERNAL THREAD	PISTON THREAD LENGTH	BASE FIXTURING HOLES			CENTER HOLE DIAMETER	WEIGHT	
													BOLT CIRCLE	THREAD	THREAD DEPTH			
													U	V	Z			
ESH-120	13 (14.3)	8.00	18.40	14.70	55.00	63.00	2-3/4 - 16	30.00	70.00	35.00	3/4 - 16UN	16.00	50.80	5/16 - 18UNC	8.90	19.60	1.70	
ESH-121		42.00		77.30	120.00	162.00							-	-	-			3.00
ESH-123		76.00		140.00	184.00	260.00							50.80	5/16 - 18UNC	8.90			4.70
ESH-202	20 (22)	49.00	32.80	161.00	162.00	211.00	3-7/8 - 12	38.00	99.00	55.00	1-9/16 - 16UN	19.00	82.50	3/8 - 16UNC	9.40	26.90	8.00	
ESH-206		155.00		508.00	306.00	461.00											-	-
ESH-302	30 (33)	64.00	48.00	307.00	179.00	242.00	4-1/2 - 12	42.00	115.00	65.00	1-13/16 - 16UN	22.00	92.20	3/8 - 16UNC	14.00	33.30	11.50	
ESH-306		155.00		744.00	330.00	485.00											-	-
ESH-603	60 (66)	76.00	87.40	664.00	247.00	322.00	6-1/4 - 12	48.00	159.00	92.00	2-3/4 - 16UN	19.00	130.30	1/2 - 13UNC	14.00	53.80	30.00	
ESH-606		153.00		1337.00	323.00	476.00											-	-
ESH-1003	95 (104.5)	76.00	135.20	1028.00	254.00	330.00	8-3/8 - 12	60.00	212.00	127.00	4 - 16UN	25.00	177.80	5/8 - 11UNC	20.10	79.00	62.00	

NOTE: ESH-120, ESH-121 AND ESH-123 HAVE EAB-202A COUPLER, AND 1/4" NPT PORT.