

FLOW  **TECHNOLOGY**^{UK}[®]

EAGLE PRO[®]

WORLDWIDE HYDRAULIC SOLUTIONS

HIGH FORCE HYDRAULIC TOOLS & SOLUTIONS



EAGLE PRO[®]



About Eagle Pro

Established in 1996, Eagle Pro Industrial Inc is a professional manufacturer of hydraulic tools for all industrial applications. Our company employs over 400 highly skilled workers and engineers.

Eagle Pro hydraulics are manufactured to ISO 9001:2008 a thorough international quality assurance programme which involves consistent observation of administration, management, manufacturing and production control, resulting in reliable and dependable high quality products that you can count on every time. Eagle Pro hydraulic cylinders meet or exceed ANSI B30.1 standards.

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EAGLE PRO Vision

To provide complete hydraulic tools and solutions for industries



EAGLE PRO Mission

To focus on our customers' needs by providing excellent hydraulic solutions and services in order to consistently provide maximum value.

High quality, excellent service, low operating costs, and giving top priority to meeting customer requirements to enhance their competitiveness and profitability.

Developing with our industry partners to jointly create favorable partnerships and share in the benefits of the value chain.

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EAGLE PRO has hundreds of different configurations to fit your application.

EAGLE PRO hydraulic cylinders fully comply with ASME B30.1



1. Steel guide ring eliminates over travel, and provides support to reduce wear from off center loads.
2. Grooved saddle for increased load stability.
3. Heavy duty wiper ring keeps dust and debris out of the cylinder body, improving performance and service life of the cylinder.
4. Cylinders feature solid steel walls. Inside walls of the cylinder are burnished, which both harden and polish the surface increasing reliability and durability.
5. Hardened and chromed piston increase durability and reduces wear.
6. Industrial seal rings provides additional support and prevent costly leaks.
7. Ring bearing provides additional support to reduce wear from lateral forces.
8. Standard coupler on all cylinders provided with heavy duty dust cover.
9. High strength, straight pull, return spring.



Capacity, Stock number and Serial number are laser etched into each cylinder

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Cylinder Quick Selection Form

Capacity (tons)	Cylinder Type	Stroke (in)	Collapsed Height (in)	Model	Page	Capacity (tons)	Cylinder Type	Stroke (in)	Collapsed Height (in)	Model	Page
2.5	Pull Cylinder	5.00	10.43	ESP-25	29	30	Double Acting	14.49	21.50	ED-3014	19
5	Single Acting/General	0.63	1.61	ES-50	7		Pull Cylinder	6.10	42.72	ESP-306	29
	Single Acting/General	0.98	4.33	ES-51	7	45	Single Acting/Low Height	0.63	2.64	ESL-500	11
	Single Acting/General	2.99	6.50	ES-53	7		Single Acting/Low Height	2.36	4.80	ESL-502	13
	Single Acting/General	5.00	8.50	ES-55	7		Single Acting/General	2.01	6.93	ES-502	7
	Single Acting/General	7.01	10.75	ES-57	7		Single Acting/General	4.02	8.94	ES-504	7
	Single Acting/General	9.13	12.76	ES-59	7		Single Acting/General	6.26	11.14	ES-506	7
	Single Acting/Low Height	0.24	1.30	ESL-50	11		Single Acting/General	13.27	18.15	ES-5013	7
	Pull Cylinder	5.51	11.89	ESP-46	29		Single Acting/Aluminum	2.13	6.73	ESA-552	14
10	Single Acting/General	0.98	3.54	ES-101	7		Single Acting/Aluminum	4.13	8.74	ESA-554	14
	Single Acting/General	2.13	4.76	ES-102	7		Single Acting/Aluminum	8.10	10.75	ESA-556	14
	Single Acting/General	4.13	6.73	ES-104	7		Single Acting/Lock/Aluminum	6.00	12.50	ELA-556	25
	Single Acting/General	6.14	9.76	ES-106	7		Double Acting	6.14	13.03	ED-506	19
	Single Acting/General	7.99	11.73	ES-108	7		Double Acting	13.15	20.04	ED-5013	19
	Single Acting/General	10.12	13.74	ES-1010	7		Double Acting	20.12	28.86	ED-5020	19
	Single Acting/General	12.01	15.75	ES-1012	7		Single Acting/High Tonnage	1.97	6.38	ESX-502	21
	Single Acting/General	14.02	17.76	ES-1014	7		Single Acting/High Tonnage	3.94	8.35	ESX-504	21
	Single Acting/Low Height	0.47	1.69	ESL-100	11		Single Acting/High Tonnage	5.91	10.31	ESX-506	21
	Single Acting/Low Height	1.50	3.46	ESL-101	13		Single Acting/High Tonnage	7.87	12.28	ESX-508	21
	Double Acting	10.00	16.10	ED-1010	19		Single Acting/High Tonnage	9.84	14.25	ESX-5010	21
	Double Acting	12.01	17.99	ED-1012	19		Single Acting/High Tonnage	11.81	16.22	ESX-5012	21
	Pull Cylinder	5.94	23.11	ESP-106C	29		Double Acting/High Tonnage	1.97	6.38	EDX-502	23
	Pull Cylinder	5.94	21.34	ESP-106L	28		Double Acting/High Tonnage	3.94	8.35	EDX-504	23
	Pull Cylinder	5.94	11.38	ESP-106	29		Double Acting/High Tonnage	5.91	10.31	EDX-506	23
13	Single Acting/Hollow	0.31	2.17	ESH-120	15		Double Acting/High Tonnage	7.87	12.28	EDX-508	23
	Single Acting/Hollow	1.65	4.72	ESH-121	15		Double Acting/High Tonnage	9.84	14.25	EDX-5010	23
	Single Acting/Hollow	2.99	7.24	ESH-123	15		Double Acting/High Tonnage	11.81	16.22	EDX-5012	23
15	Single Acting/General	0.98	4.88	ES-151	7		Single Acting/Lock	1.97	6.46	EL-502	27
	Single Acting/General	2.01	5.87	ES-152	7		Single Acting/Lock	3.94	8.43	EL-504	27
	Single Acting/General	4.02	7.87	ES-154	7		Single Acting/Lock	5.91	10.39	EL-506	27
	Single Acting/General	5.98	10.71	ES-156	7		Single Acting/Lock	7.87	12.36	EL-508	27
	Single Acting/General	7.99	12.68	ES-158	7		Single Acting/Lock	9.84	14.33	EL-5010	27
	Single Acting/General	10.00	14.69	ES-1510	7		Single Acting/Lock	11.81	16.30	EL-5012	27
	Single Acting/General	12.01	16.69	ES-1512	7		Pull Cylinder	5.98	28.35	ESP-606	29
	Single Acting/General	14.02	18.70	ES-1514	7		Single Acting/Hollow	2.99	9.72	ESH-603	15
20	Single Acting/Low Height	0.43	2.05	ESL-200	11		Single Acting/Hollow	6.02	12.72	ESH-606	15
	Single Acting/Low Height	1.73	3.90	ESL-201	13		Double Acting/Hollow	3.50	9.72	EDH-603	17
	Single Acting/Aluminum	2.09	6.38	ESA-202	14		Double Acting/Hollow	6.54	12.72	EDH-606	17
	Single Acting/Aluminum	4.09	8.39	ESA-204	14		Double Acting/Hollow	10.12	17.24	EDH-6010	17
	Single Acting/Aluminum	6.14	10.37	ESA-206	14		Single Acting/Low Height/Lock	1.97	4.92	ELL-602	26
	Single Acting/Hollow	1.93	6.38	ESH-202	15		Single Acting/General	6.14	11.26	ES-756	7
	Single Acting/Hollow	6.10	12.05	ESH-206	15		Single Acting/General	13.15	19.37	ES-7513	7
	Single Acting/General	0.98	5.51	ES-251	7		Single Acting/Low Height	0.63	3.15	ESL-750	11
25	Single Acting/General	2.01	6.50	ES-252	7		Double Acting	6.14	13.66	ED-756	19
	Single Acting/General	4.02	8.50	ES-254	7		Double Acting	13.11	20.67	ED-7513	19
	Single Acting/General	6.26	10.75	ES-256	7		Single Acting/General	6.61	14.06	ES-1006	7
	Single Acting/General	8.27	12.76	ES-258	7		Single Acting/General	10.24	17.68	ES-10010	7
	Single Acting/General	10.24	14.76	ES-2510	7		Single Acting/Low Height	0.63	3.39	ESL-1000	11
	Single Acting/General	12.24	16.73	ES-2512	7		Single Acting/Low Height	2.24	5.55	ESL-1002	13
	Single Acting/General	14.25	18.74	ES-2514	7		Single Acting/Aluminum	2.13	7.76	ESA-1002	14
	Single Acting/General	8.27	15.24	ES-306	7		Single Acting/Aluminum	6.26	11.75	ESA-1006	14
30	Single Acting/Low Height	0.51	2.32	ESL-300	11		Single Acting/Hollow	2.99	10.00	ESH-1003	15
	Single Acting/Low Height	2.44	4.65	ESL-302	13		Double Acting/Hollow	1.50	6.50	EDH-1001	17
	Single Acting/Aluminum	2.13	7.38	ESA-302	14		Double Acting/Hollow	2.99	10.00	EDH-1003	17
	Single Acting/Aluminum	4.09	9.37	ESA-304	14		Double Acting/Hollow	6.02	13.46	EDH-1006	17
	Single Acting/Aluminum	6.14	11.38	ESA-306	14		Double Acting/Hollow	10.12	18.11	EDH-10010	17
	Single Acting/Hollow	2.52	7.05	ESH-302	15		Double Acting	6.61	14.06	ED-1006	19
	Single Acting/Hollow	6.10	12.99	ESH-306	15		Double Acting	13.11	20.63	ED-10013	19
	Double Acting/Hollow	7.01	12.99	EDH-307	17		Double Acting	18.11	27.05	ED-10018	19
	Double Acting/Hollow	10.16	16.97	EDH-3010	17		Single Acting/High Tonnage	1.97	7.17	ESX-1002	21
	Double Acting	8.23	15.24	ED-308	19		Single Acting/High Tonnage	3.94	9.13	ESX-1004	21

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Cylinder Quick Selection Form

Capacity (tons)	Cylinder Type	Stroke (in)	Collapsed Height (in)	Model	Page	Capacity (tons)	Cylinder Type	Stroke (in)	Collapsed Height (in)	Model	Page
95	Single Acting/High Tonnage	5.91	11.10	ESX-1006	21	250	Single Acting/Lock	5.91	13.74	EL-2506	27
	Single Acting/High Tonnage	7.87	13.07	ESX-1008	21		Single Acting/Lock	9.84	17.68	EL-25010	27
	Single Acting/High Tonnage	9.84	15.04	ESX-10010	21	260	Single Acting/Low Height/Lock	1.77	6.26	ELL-2502	26
	Single Acting/High Tonnage	11.81	17.01	ESX-10012	21		Double Acting	6.02	19.09	ED-3006	19
	Single Acting/Lock	1.97	7.36	EL-1002	27	300	Single Acting/High Tonnage	1.97	12.28	ESX-3002	21
	Single Acting/Lock	3.94	9.33	EL-1004	27		Single Acting/High Tonnage	5.91	16.22	ESX-3006	21
	Single Acting/Lock	5.91	11.30	EL-1006	27		Single Acting/High Tonnage	11.81	22.13	ESX-30012	21
	Single Acting/Lock	7.87	13.27	EL-1008	27		Double Acting/High Tonnage	1.97	12.68	EDX-3002	23
	Single Acting/Lock	9.84	15.24	EL-10010	27		Double Acting/High Tonnage	5.91	16.61	EDX-3006	23
	Single Acting/Lock	11.81	17.20	EL-10012	27		Double Acting/High Tonnage	11.81	22.52	EDX-30012	23
100	Double Acting/High Tonnage	1.97	7.06	EDX-1002	23		Single Acting/Lock	1.97	11.61	EL-3002	27
	Double Acting/High Tonnage	3.94	9.02	EDX-1004	23		Single Acting/Lock	5.91	15.55	EL-3006	27
	Double Acting/High Tonnage	5.91	10.98	EDX-1006	23		Single Acting/Lock	9.84	19.49	EL-30010	27
	Double Acting/High Tonnage	7.87	12.95	EDX-1008	23		Single Acting/Lock	1.97	13.19	EL-4002	27
	Double Acting/High Tonnage	9.84	14.92	EDX-10010	23	400	Single Acting/Lock	5.91	17.13	EL-4006	27
	Double Acting/High Tonnage	11.81	16.89	EDX-10012	23		Single Acting/Lock	9.84	21.06	EL-40010	27
	Single Acting/Low Height/Lock	1.97	5.39	ELL-1002	26		Single Acting/High Tonnage	1.97	14.76	ESX-4002	21
	Single Acting/Lock/Aluminum	6.00	13.37	ELA-1006	25		Single Acting/High Tonnage	5.91	18.70	ESX-4006	21
140	Single Acting/High Tonnage	1.97	7.72	ESX-1502	21		Single Acting/High Tonnage	11.81	24.61	ESX-40012	21
	Single Acting/High Tonnage	3.94	9.69	ESX-1504	21		Double Acting/High Tonnage	1.97	14.72	EDX-4002	23
	Single Acting/High Tonnage	5.91	11.65	ESX-1506	21		Double Acting/High Tonnage	5.91	18.66	EDX-4006	23
	Single Acting/High Tonnage	7.87	13.62	ESX-1508	21		Double Acting/High Tonnage	11.81	24.57	EDX-40012	23
	Single Acting/High Tonnage	9.84	15.59	ESX-15010	21		Single Acting/Low Height/Lock	1.77	7.01	ELL-4002	26
	Single Acting/High Tonnage	11.81	17.56	ESX-15012	21		Single Acting/High Tonnage	1.97	16.50	ESX-5002	21
	Single Acting/Lock	1.97	8.23	EL-1502	27	500	Single Acting/High Tonnage	5.91	20.43	ESX-5006	21
	Single Acting/Lock	3.94	10.20	EL-1504	27		Single Acting/High Tonnage	11.81	26.34	ESX-50012	21
	Single Acting/Lock	5.91	12.17	EL-1506	27		Double Acting/High Tonnage	1.97	16.50	EDX-5002	23
	Single Acting/Lock	7.87	14.13	EL-1508	27		Double Acting/High Tonnage	5.91	20.43	EDX-5006	23
	Single Acting/Lock	9.84	16.10	EL-15010	27		Double Acting/High Tonnage	11.81	26.34	EDX-50012	23
	Single Acting/Lock	11.81	18.07	EL-15012	27		Single Acting/Lock	1.97	14.76	EL-5002	27
150	Double Acting	2.24	7.72	ED-1502	19		Single Acting/Lock	5.91	18.70	EL-5006	27
	Double Acting	6.14	15.16	ED-1506	19		Single Acting/Lock	9.84	22.64	EL-50010	27
	Double Acting	13.11	22.91	ED-15013	19	520	Single Acting/Low Height/Lock	1.77	7.56	ELL-5002	26
	Double Acting/Hollow	7.99	13.74	EDH-1508	17		Single Acting/High Tonnage	1.97	16.89	ESX-6002	21
	Single Acting/Low Height	0.63	3.94	ESL-1500	11	600	Single Acting/High Tonnage	5.91	20.83	ESX-6006	21
	Double Acting/High Tonnage	1.97	7.72	EDX-1502	23		Single Acting/High Tonnage	11.81	26.73	ESX-60012	21
	Double Acting/High Tonnage	3.94	9.69	EDX-1504	23		Double Acting/High Tonnage	1.97	16.89	EDX-6002	23
	Double Acting/High Tonnage	5.91	11.65	EDX-1506	23		Double Acting/High Tonnage	5.91	20.83	EDX-6006	23
	Double Acting/High Tonnage	7.87	13.62	EDX-1508	23		Double Acting/High Tonnage	11.81	26.73	EDX-60012	23
	Double Acting/High Tonnage	9.84	15.59	EDX-15010	23		Single Acting/Lock	1.97	15.55	EL-6002	27
	Double Acting/High Tonnage	11.81	17.56	EDX-15012	23		Single Acting/Lock	5.91	19.49	EL-6006	27
160	Single Acting/Low Height/Lock	1.77	5.83	ELL-1602	26		Single Acting/Lock	9.84	23.43	EL-60010	27
185	Single Acting/Lock	1.97	9.57	EL-2002	27	800	Single Acting/High Tonnage	1.97	18.66	ESX-8002	21
	Single Acting/Lock	5.91	13.50	EL-2006	27		Single Acting/High Tonnage	5.91	22.60	ESX-8006	21
	Single Acting/Lock	9.84	17.44	EL-20010	27		Single Acting/High Tonnage	11.81	28.50	ESX-80012	21
200	Double Acting	5.96	16.93	ED-2006	19		Double Acting/High Tonnage	1.97	19.06	EDX-8002	23
	Double Acting	12.99	23.94	ED-20013	19		Double Acting/High Tonnage	5.91	22.99	EDX-8006	23
	Single Acting/High Tonnage	1.97	8.50	ESX-2002	21		Double Acting/High Tonnage	11.81	28.90	EDX-80012	23
	Single Acting/High Tonnage	5.91	12.44	ESX-2006	21		Single Acting/Lock	1.97	17.91	EL-8002	27
	Single Acting/High Tonnage	11.81	18.35	ESX-20012	21		Single Acting/Lock	5.91	21.85	EL-8006	27
	Double Acting/High Tonnage	1.97	8.35	EDX-2002	23		Single Acting/Lock	9.84	25.79	EL-80010	27
	Double Acting/High Tonnage	5.91	12.28	EDX-2006	23	1000	Single Acting/High Tonnage	1.97	22.20	ESX-10002	21
	Double Acting/High Tonnage	11.81	18.19	EDX-20012	23		Single Acting/High Tonnage	5.91	26.14	ESX-10006	21
	Single Acting/Low Height/Lock	1.77	6.10	ELL-2002	26		Single Acting/High Tonnage	11.81	32.05	ESX-100012	21
250	Single Acting/High Tonnage	1.97	9.25	ESX-2502	21		Double Acting/High Tonnage	1.97	22.20	EDX-10002	23
	Single Acting/High Tonnage	5.91	13.19	ESX-2506	21		Double Acting/High Tonnage	5.91	26.14	EDX-10006	23
	Single Acting/High Tonnage	11.81	19.09	ESX-25012	21		Double Acting/High Tonnage	11.81	32.05	EDX-100012	23
	Double Acting/High Tonnage	1.97	9.25	EDX-2502	23		Single Acting/Lock	1.97	19.49	EL-10002	27
	Double Acting/High Tonnage	5.91	13.19	EDX-2506	23		Single Acting/Lock	5.91	23.43	EL-10006	27
	Double Acting/High Tonnage	11.81	19.09	EDX-25012	23		Single Acting/Lock	9.84	27.36	EL-100010	27
	Single Acting/Lock	1.97	9.80	EL-2502	27						

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ES-SERIES



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.

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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.

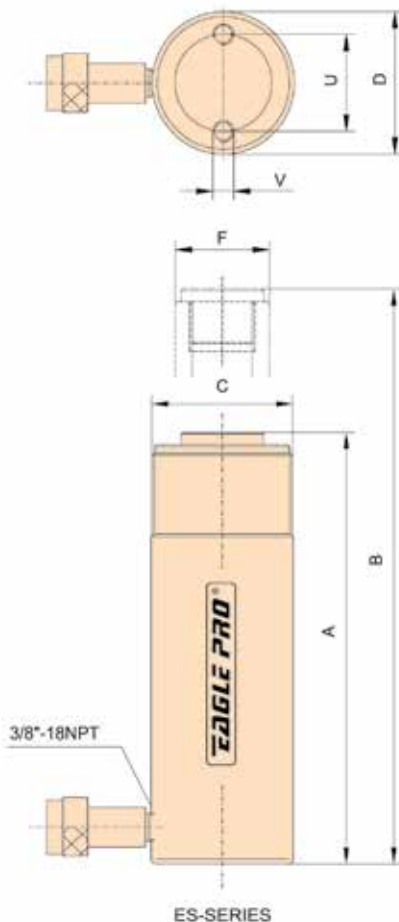
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ES-SERIES

ES-SERIES

GENERAL PURPOSE, SINGLE ACTING CYLINDERS



Cylinder Capacity @700bar ton	Stroke in	Model	Cylinder Effective Area in ²	Oil Capacity in ³	Collapsed Height
					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
15	12.01	ES-1012	2.25	26.84	15.75
	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
25	7.99	ES-158	3.26	25.62	12.68
	10.00	ES-1510	3.26	32.51	14.69
	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
30	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
	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
50	8.27	ES-308	6.51	56.06	15.24
	2.01	ES-502	10.97	22.08	6.93
	4.02	ES-504	10.97	44.04	8.94
	6.26	ES-506	10.97	68.75	11.14
75	13.27	ES-5013	10.97	145.67	18.15
	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

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Download Tech Sheet **10050** for ES-Series PDF

ES-SERIES



Quality pressure hoses



Pressure gauges available to monitor system pressure



Optional biting 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

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Download Tech Sheet **10062** for ESL-Series PDF

ESL-SERIES



Shown from left to right:
ESL-1000, ESL-1002, ESL-50, ESL-500, ESL-302

ESL-SERIES SINGLE ACTING, LOW HEIGHT CYLINDERS

Features

- ◆ Use in confined spaces.
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Mounting holes permit easy fixturing.
- ◆ Heavy-duty piston return spring.
- ◆ High quality EAB-201 quick couplers.
- ◆ Grooved piston end requires no saddle.
- ◆ Environmentally friendly painting process provides a durable anti-corrosion finish.



Pressure gauges
available to monitor
system pressure



Quality pressure
hoses



Cylinder Capacity @700bar ton	Stroke in	Model	Cylinder Effective Area	Oil Capacity in ³	Collapsed Height
			in ²		A in
5	0.24	ESL-50	1.10	0.26	1.30
10	0.47	ESL-100	2.25	0.98	1.69
20	0.43	ESL-200	4.43	1.89	2.05
30	0.51	ESL-300	6.51	3.36	2.32
45	0.63	ESL-500	9.63	6.04	2.64
75	0.63	ESL-750	15.92	10.00	3.15
90	0.63	ESL-1000	19.65	12.38	3.39
150	0.63	ESL-1500	30.71	19.34	3.94

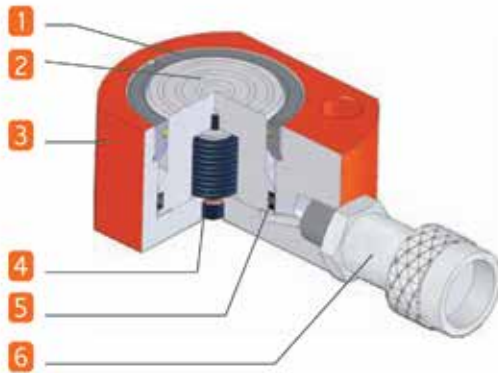
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Download Tech Sheet **10062** for ESL-Series PDF

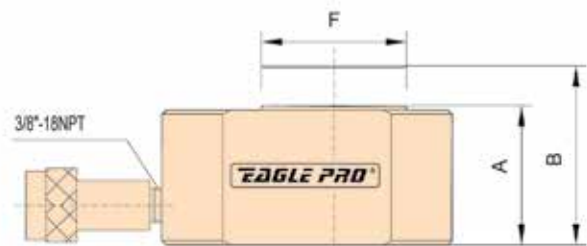
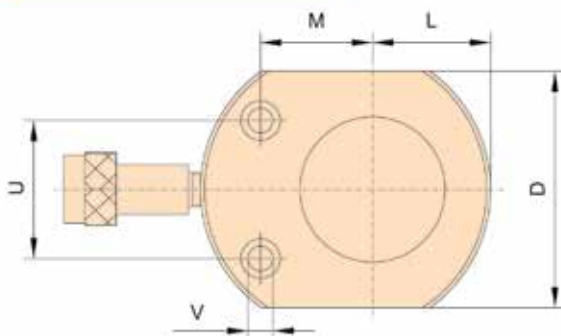
ESL-SERIES



24 EAGLE PRO ESL series hydraulic cylinders with an EAGLE PRO electric hydraulic pump lift a bridge into position



1. Steel guide ring eliminates over travel and withstands full dead end load, it 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. Secondary gasket and industrial seal ring assembly prevent costly leaks.
6. Standard coupler on all cylinders provided with heavy duty dust cover.



Extended Height	Outside Diameter	Piston Rod Diam.	Upside Dimension				Weight	
B	D	F	M	L	V	U	lbs	
in	in	in	in	in	in	in		
1.54	2.32 × 1.65	0.98	0.98	0.83	0.22	1.12	2.2	ESL-50
2.17	3.27 × 2.20	1.50	1.34	1.10	0.28	1.44	3.08	ESL-100
2.48	3.98 × 3.00	2.01	1.56	1.57	0.39	1.93	6.82	ESL-200
2.80	4.61 × 3.74	2.60	1.75	1.89	0.39	2.05	9.9	ESL-300
3.27	5.51 × 4.49	2.76	2.13	2.24	0.43	2.62	14.96	ESL-500
3.74	6.50 × 5.47	3.27	2.60	2.72	0.53	2.99	25.08	ESL-750
4.02	7.01 × 6.02	3.62	2.93	2.99	0.53	2.99	31.9	ESL-1000
4.57	8.46 × 7.48	4.53	3.23	3.76	0.53	4.61	57.86	ESL-1500

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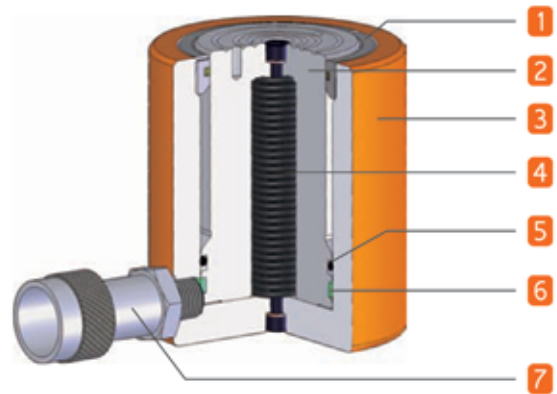
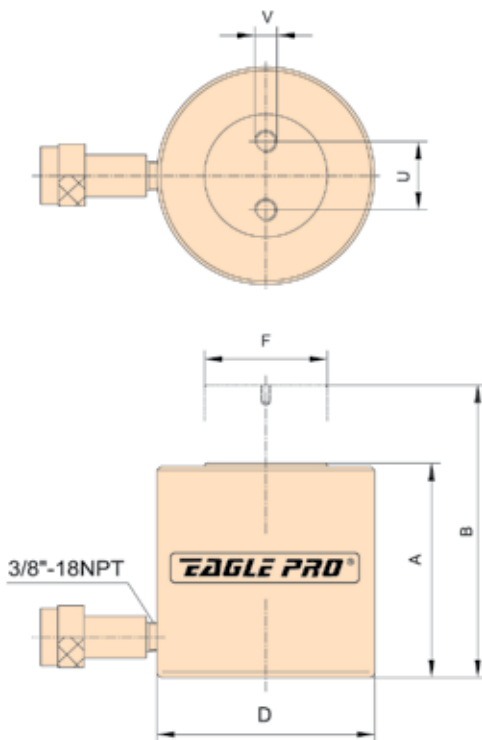
Download Tech Sheet **10063** for ESL-Series PDF

ESL-SERIES

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.

Cylinder Capacity @700bar	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Piston Rod Diam.	Upside Dimension		Weight
					A	B			Thread V	Bolt Circle U	
ton	in		in ²	in ³	in	in	in	in	mm	in	lbs
10	1.50	ESL-101	2.23	3.36	3.46	4.96	2.72	1.50	M4	1.02	9.02
20	1.73	ESL-201	4.43	7.69	3.90	5.63	3.62	2.01	M5	1.56	11.22
30	2.44	ESL-302	6.49	15.86	4.65	7.09	4.02	2.60	M5	1.56	14.96
45	2.36	ESL-502	9.63	22.75	4.80	7.17	4.88	2.76	M5	1.56	23.98
90	2.24	ESL-1002	19.67	44.10	5.55	7.80	6.46	3.62	M8	2.19	49.94

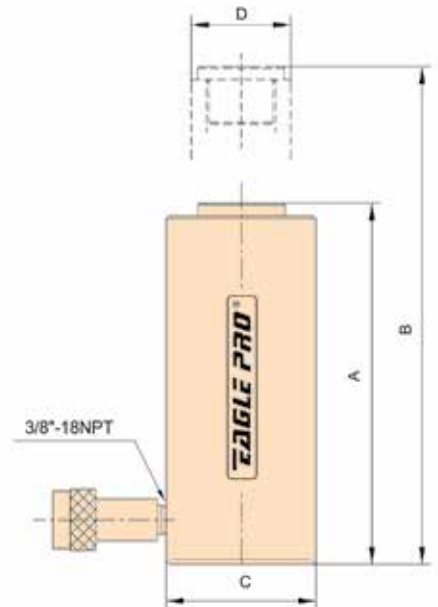
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Download Tech Sheet **10064** for ESA-Series PDF

ESA-SERIES



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 @700bar ton	Stroke in	Model	Cylinder Effective Area in ²	Oil Capacity in ³	Collapsed Height	Extended Height	Outside Diameter C in	Piston Rod Diam. D in	Weight lbs
					A in	B in			
20	2.09	ESA-202	4.42	9.39	6.38	8.50	3.74	1.97	7.7
	4.09	ESA-204	4.42	18.24	8.39	12.52	3.74	1.97	9.46
	6.14	ESA-206	4.42	27.08	10.37	16.52	3.74	1.97	11.44
30	2.13	ESA-302	6.85	14.52	7.38	9.51	4.29	2.56	11.22
	4.09	ESA-304	6.85	28.24	9.37	13.50	4.29	2.56	12.98
	6.14	ESA-306	6.85	41.97	11.38	17.52	4.29	2.56	14.96
50	2.13	ESA-552	11.01	22.39	6.73	8.86	5.30	3.15	16.28
	4.13	ESA-554	11.01	45.45	8.74	12.87	5.30	3.15	20.02
	6.14	ESA-556	11.01	67.71	10.75	16.89	5.30	3.15	24.42
90	2.13	ESA-1002	20.62	43.80	7.76	9.88	7.44	4.13	33.44
	6.26	ESA-1006	20.62	129.08	11.75	18.01	7.44	4.13	50.16

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Download Tech Sheet **10065** for ESH-Series PDF

ESH-SERIES



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

ESH-SERIES SINGLE ACTING HOLLOW CENTER CYLINDERS

► Features

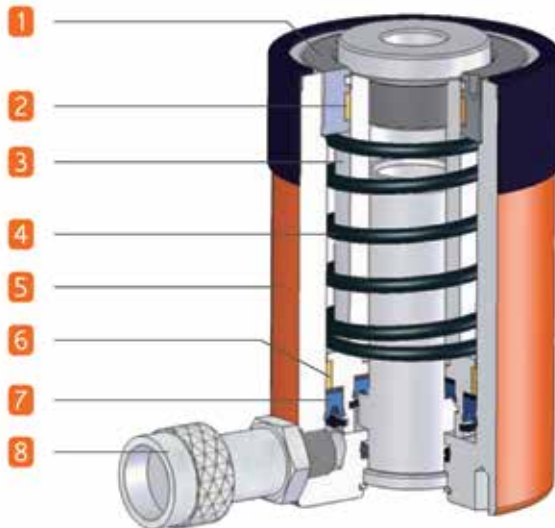
- ◆ Hollow piston design allows for both pull and push forces.
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Single-acting, spring return.
- ◆ High quality EAB-201 quick couplers.
- ◆ Collar threads, piston threads for easy fixturing.
- ◆ Environmentally friendly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

Cylinder Capacity @700bar ton	Stroke in	Model	Cylinder Effective Area in ²	Oil Capacity in ³	Collapsed Height	Extended Height	Collar Thread	Outside Diameter	Piston Rod Diam.
					A in	B in	C in	D in	F in
13	0.31	ESH-120	2.85	0.90	2.17	2.48	2 3/4"-16	2.72	1.38
	1.65	ESH-121	2.85	4.72	4.72	6.38	2 3/4"-16	2.72	1.38
	2.99	ESH-123	2.85	8.54	7.24	10.24	2 3/4"-16	2.72	1.38
20	1.93	ESH-202	5.08	9.82	6.38	8.31	3 7/8"-12	3.90	2.13
	6.10	ESH-206	5.08	30.99	12.05	18.15	3 7/8"-12	3.90	2.13
30	2.52	ESH-302	7.44	18.73	7.05	9.57	4 1/2"-12	4.49	2.48
	6.10	ESH-306	7.44	45.38	12.99	19.09	4 1/2"-12	4.49	2.48
60	2.99	ESH-603	13.55	40.50	9.72	12.72	6 1/4"-12	6.26	3.58
	6.02	ESH-606	13.55	81.56	12.72	18.74	6 1/4"-12	6.26	3.58
95	2.99	ESH-1003	20.96	62.71	10.00	12.99	8 3/8"-12	8.35	4.96

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Download Tech Sheet **10065** for ESH-Series PDF

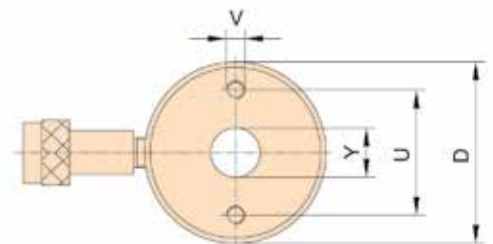
ESH-SERIES



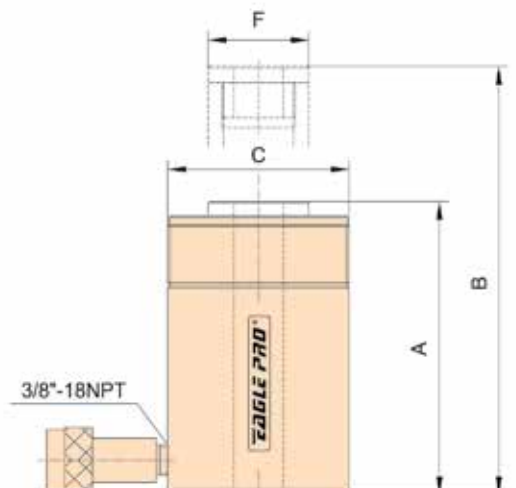
1. Steel Guide ring eliminates over travel, and provides support to reduce wear from off center loads.
2. Bearing ring provides additional support to reduce wear from off center loads.
3. Hardened and chromed piston increase durability and reduces wear.
4. High strength return spring.
5. All steel body 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.



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



Base Fix Holes		Center Hole Diameter	Weight	Model
Thread	Bolt Circle			
V	U	Y	lbs	
UNC	in	in		
5/16"-18	2.00	0.77	3.3	ESH-120
-	-	0.77	6.16	ESH-121
5/16"-18	2.00	0.77	9.68	ESH-123
3/8"-16	3.25	1.06	16.94	ESH-202
3/8"-16	3.25	1.06	31.02	ESH-206
3/8"-16	3.63	1.31	23.98	ESH-302
3/8"-16	3.63	1.31	47.96	ESH-306
1/2"-13	5.13	2.12	61.82	ESH-603
1/2"-13	5.13	2.12	77.88	ESH-606
5/8"-11	7.00	3.11	131.78	ESH-1003



EAGLE PRO[®]

EDH-SERIES



Shown from left to right:
EDH-3010, EDH-603, EDH-6010

EDH-SERIES DOUBLE ACTING, HOLLOW CENTER CYLINDERS

Features

- ◆ Hollow piston design allow for both pulling and pushing actions.
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Double acting operation for fast piston retraction.
- ◆ Built-in safety valve prevents accidental over-pressurization.
- ◆ High quality EAB-201 quick couplers.
- ◆ Collar and piston threads for easy fixturing.
- ◆ Environmentally friendly painting process provides a durable corrosion resistant finish.

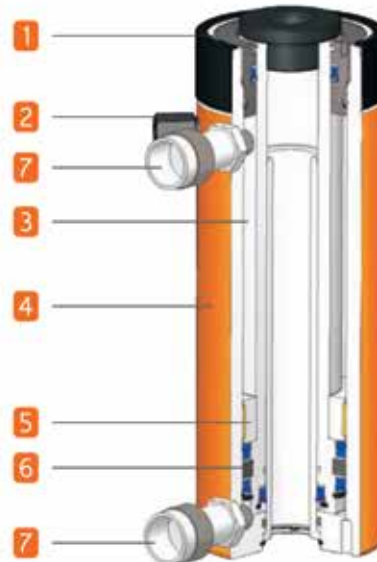
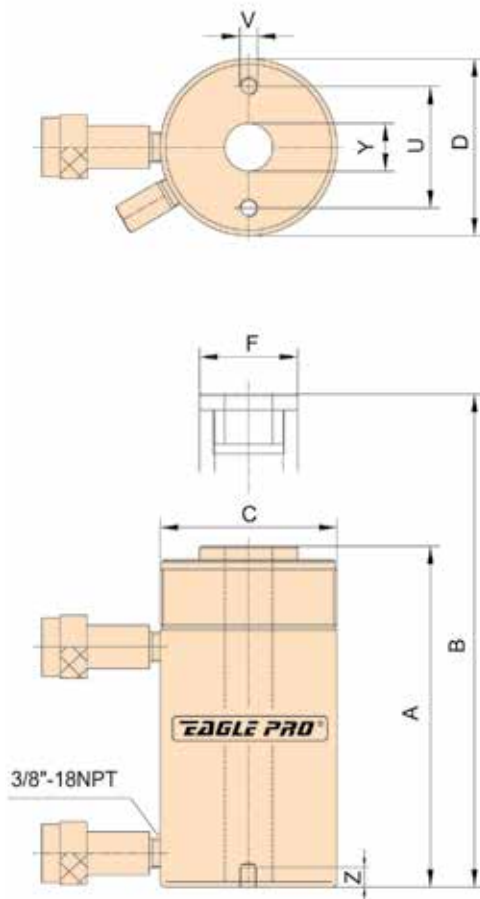


Cylinder Capacity @700bar ton	Stroke in	Model	Max.Cylinder Capacity		Cylinder Effective Area	
			Advance ton	Retract ton	Advance in ²	Retract in ²
30	7.01	EDH-307	32.8	22.3	7.39	5.02
	10.16	EDH-3010	32.8	22.3	7.39	5.02
60	3.50	EDH-603	60	38.7	13.55	8.71
	6.54	EDH-606	60	38.7	13.55	8.71
	10.12	EDH-6010	60	38.7	13.55	8.71
95	1.50	EDH-1001	93	60	20.96	13.50
	2.99	EDH-1003	93	60	20.96	13.50
	6.02	EDH-1006	93	60	20.96	13.50
	10.12	EDH-10010	93	60	20.96	13.50
140	8.00	EDH-1508	135.4	70.2	30.50	15.81

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Download Tech Sheet **10066** for EDH-Series PDF

EDH-SERIES



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

Oil Capacity		Collapsed Height	Extended Height	Collar thread	Outside Diameter	Piston Rod Diam.	Base Fix Holes			Center Hole Diameter	Weight	Model
Advance	Retract	A	B	C	D	F	Bolt Circle	Thread	Thread Depth	Y	lbs	
in³	in³	in	in	in	in	in	in	in	in	in		
51.79	35.20	12.99	20.00	4 1/2"-12	4.49	2.56	3.62	3/8"-16	0.61	1.31	46.2	EDH-307
75.09	51.00	16.97	27.13	4 1/2"-12	4.49	2.56	3.62	3/8"-16	0.61	1.31	59.4	EDH-3010
47.46	29.34	9.72	13.23	6 1/4"-12	6.26	3.62	5.12	1/2"-13	0.55	2.12	61.6	EDH-603
88.51	54.35	12.72	19.25	6 1/4"-12	6.26	3.62	5.12	1/2"-13	0.55	2.12	77	EDH-606
137.01	84.67	17.24	27.36	6 1/4"-12	6.26	3.62	5.12	1/2"-13	0.55	2.12	99	EDH-6010
31.35	20.19	6.50	7.99	-	8.35	5.00	7.01	5/8"-11	0.75	3.12	72.6	EDH-1001
62.65	40.38	10.00	12.99	8 3/8"-12	8.35	5.00	7.01	5/8"-11	0.75	3.12	134.2	EDH-1003
126.21	81.31	13.46	19.49	8 3/8"-12	8.35	5.00	7.01	5/8"-11	0.75	3.12	173.8	EDH-1006
211.98	136.58	18.11	28.23	8 3/8"-12	8.35	5.00	7.01	5/8"-11	0.75	3.12	235.4	EDH-10010
243.70	126.51	13.74	21.73	-	9.72	6.00	-	-	-	3.12	244.2	EDH-1508

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Download Tech Sheet **10067** for ED-Series PDF

ED-SERIES



Shown from left to right:
ED-506, ED-7513



56 ED-308 used in a
power generation plant

ED-SERIES DOUBLE ACTING, CYLINDERS

Features

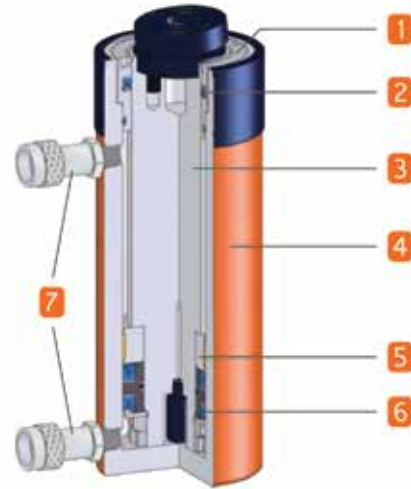
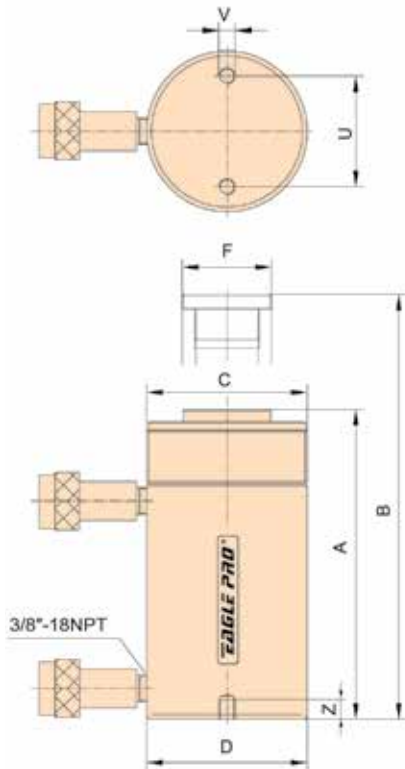
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Double acting operation for fast piston retraction.
- ◆ Built-in safety valve prevents accidental over-pressurization.
- ◆ High quality EAB-201 quick couplers.
- ◆ Collar and piston threads for easy fixturing.
- ◆ Environmentally friendly painting process provides a durable corrosion resistant finish.

Cylinder Capacity @700bar ton	Stroke in	Model	Max.Cylinder Capacity		Cylinder Effective Area	
			Advance ton	Retract ton	Advance in ²	Retract in ²
10	10.00	ED-1010	10	3.4	2.25	0.76
	12.01	ED-1012	10	3.4	2.25	0.76
30	8.23	ED-308	30.9	5.6	6.85	3.16
	14.49	ED-3014	30.9	5.6	6.85	3.16
50	6.14	ED-506	48.7	14.2	10.97	3.19
	13.15	ED-5013	48.7	14.2	10.97	3.19
	20.12	ED-5020	48.7	14.2	10.97	3.19
75	6.14	ED-756	72.5	22.7	16.09	5.12
	13.11	ED-7513	72.5	22.7	16.09	5.12
95	6.61	ED-1006	91.3	42.5	20.57	9.58
	13.11	ED-10013	91.3	42.5	20.57	9.58
	18.11	ED-10018	91.3	42.5	20.57	9.58
140	2.24	ED-1502	140	68	31.16	15.05
	6.14	ED-1506	140	68	31.16	15.05
	13.11	ED-15013	140	68	31.16	15.05
200	5.98	ED-2006	198	98	43.93	21.75
	12.99	ED-20013	198	98	43.93	21.75
300	6.02	ED-3006	316	164	70.09	36.95

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ED-SERIES



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

Oil Capacity		Coll.Height	Ext.Height	Collar thread	Outside Diameter	Piston Rod Diameter	Base Fix Holes			Weight lbs	Model
Advance in ³	Retract in ³	A in	B in	C in	D in	F in	Diameter U in	Thread V in	Depth Z in		
22.51	7.59	16.10	26.10	2 1/4"-14	2.87	1.38	-	-	-	26.4	ED-1010
27.02	9.12	17.99	30.00	2 1/4"-14	2.87	1.38	-	-	-	30.8	ED-1012
56.35	26.01	15.24	23.46	3 5/16"-12	4.02	2.17	-	-	-	39.6	ED-308
99.22	46.91	21.50	36.10	3 5/16"-12	4.02	2.17	-	-	-	63.8	ED-3014
67.37	19.61	13.03	19.17	5"-12	5.00	3.15	-	-	-	66	ED-506
144.25	41.97	20.04	33.19	5"-12	5.00	3.15	-	-	-	114.4	ED-5013
220.69	64.21	28.86	48.98	5"-12	5.00	3.15	2.99	1/2"-13	0.98	149.6	ED-5020
98.78	31.40	13.66	19.80	5 3/4"-12	5.75	3.15	-	-	-	90.2	ED-756
210.85	67.03	20.67	33.78	5 3/4"-12	5.75	3.15	-	-	-	149.6	ED-7513
135.99	63.33	14.06	20.67	6 7/8"-12	6.97	3.74	5.47	3/4"-10	0.98	134.2	ED-1006
269.55	125.53	20.63	33.74	6 7/8"-12	6.97	3.74	5.47	3/4"-10	0.98	204.6	ED-10013
372.36	173.41	27.05	45.16	6 7/8"-12	6.97	3.74	5.47	3/4"-10	0.98	257.4	ED-10018
69.89	33.76	7.72	9.96	8"-12	8.03	4.53	-	-	-	107.8	ED-1502
191.27	92.40	15.16	21.30	8"-12	8.03	4.53	6.22	3/4"-16	1.10	204.6	ED-1506
408.29	197.24	22.91	36.02	8"-12	8.03	4.53	6.22	3/4"-16	1.10	272.8	ED-15013
337.10	130.09	16.93	22.91	9 3/4"-12	9.72	5.31	5.00	1"-8	0.98	323.4	ED-2006
731.88	282.42	23.94	36.93	9 3/4"-12	9.72	5.31	5.00	1"-8	0.98	437.8	ED-20013
422.04	222.50	19.09	25.12	12 1/4"-12	12.24	6.50	6.22	1 1/4"-7	1.73	440	ED-3006

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ESX-SERIES

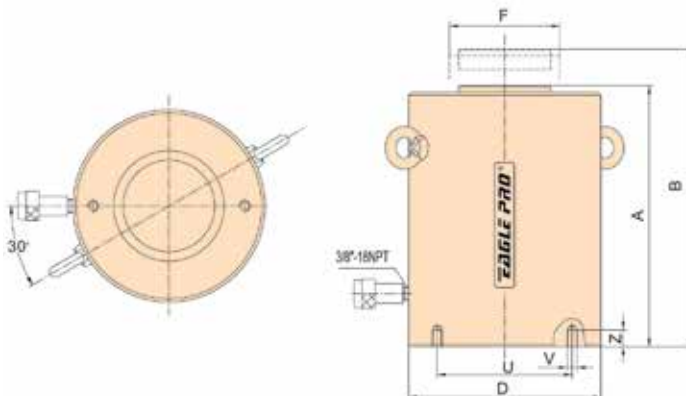


Shown from left to right:
ESX-506, ESX-2002, ESX-1008

ESX-SERIES SINGLE ACTING , HIGH TONNAGE CYLINDERS

Features

- ◆ Complies with ASME B30.1 standards. High grade steel cylinder is heat treated for additional strength.
- ◆ Threaded base easier to install.
- ◆ Threaded hole & rigging easier to carry.
- ◆ High flow EAB-201 quick coupler.
- ◆ Environmentally friendly painting process provides a durable corrosion resistant finish.
- ◆ Single Acting, load Return.
- ◆ Tilt saddle available.



Cylinder Capacity @700bar	Stroke	Model	Cylinder Effective Area
ton	in		in ²
50	1.97	ESX-502	12.17
	3.94	ESX-504	11.94
	5.91	ESX-506	11.94
	7.87	ESX-508	11.94
	9.84	ESX-5010	11.94
	11.81	ESX-5012	11.94
95	1.97	ESX-1002	20.54
	3.94	ESX-1004	20.54
	5.91	ESX-1006	20.54
	7.87	ESX-1008	20.54
	9.84	ESX-10010	20.54
	11.81	ESX-10012	20.54
140	1.97	ESX-1502	31.39
	3.94	ESX-1504	31.39
	5.91	ESX-1506	31.39
	7.87	ESX-1508	31.39
	9.84	ESX-15010	31.39
	11.81	ESX-15012	31.39
200	1.97	ESX-2002	41.23
	5.91	ESX-2006	41.23
	11.81	ESX-20012	41.23
250	1.97	ESX-2502	56.22
	5.91	ESX-2506	56.22
	11.81	ESX-25012	56.22
300	1.97	ESX-3002	70.06
	5.91	ESX-3006	70.06
	11.81	ESX-30012	70.06
400	1.97	ESX-4002	88.66
	5.91	ESX-4006	88.66
	11.81	ESX-40012	88.66
500	1.97	ESX-5002	113.24
	5.91	ESX-5006	113.24
	11.81	ESX-50012	113.24
600	1.97	ESX-6002	132.57
	5.91	ESX-6006	132.57
	11.81	ESX-60012	132.57
800	1.97	ESX-8002	180.27
	5.91	ESX-8006	180.27
	11.81	ESX-80012	180.27
1000	1.97	ESX-10002	224.75
	5.91	ESX-10006	224.75
	11.81	ESX-100012	224.75

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ESX-SERIES



Quality pressure hoses



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



Pressure gauges available to monitor system pressure



Oil Capacity in ³	Collapsed Height A	Extended Height B	Outside Diam. D	Plunger Diam. F	Base Fix Holes			Weight lbs	Model
	in	in	in	in	Bolt Circle U in	Thread V mm	Depth Z in		
23.91	6.38	8.35	5.12	2.76	2.56	M12	0.87	35.2	ESX-502
47.89	8.35	12.28	5.12	2.76	2.56	M12	0.87	41.8	ESX-504
71.86	10.31	16.22	5.12	2.76	2.56	M12	0.87	50.6	ESX-506
95.77	12.28	20.16	5.12	2.76	2.56	M12	0.87	57.2	ESX-508
119.68	14.25	24.09	5.12	2.76	2.56	M12	0.87	66	ESX-5010
143.66	16.22	28.03	5.12	2.76	2.56	M12	0.87	74.8	ESX-5012
40.50	7.17	9.13	6.50	3.74	3.74	M12	0.87	61.6	ESX-1002
80.95	9.13	13.07	6.50	3.74	3.74	M12	0.87	74.8	ESX-1004
121.45	11.10	17.01	6.50	3.74	3.74	M12	0.87	88	ESX-1006
161.96	13.07	20.94	6.50	3.74	3.74	M12	0.87	101.2	ESX-1008
202.40	15.04	24.88	6.50	3.74	3.74	M12	0.87	114.4	ESX-10010
242.90	17.01	28.82	6.50	3.74	3.74	M12	0.87	127.6	ESX-10012
61.61	7.72	9.69	8.07	4.53	5.12	M12	0.87	105.6	ESX-1502
123.22	9.69	13.62	8.07	4.53	5.12	M12	0.87	125.4	ESX-1504
184.71	11.65	17.56	8.07	4.53	5.12	M12	0.87	145.2	ESX-1506
246.32	13.62	21.50	8.07	4.53	5.12	M12	0.87	165	ESX-1508
307.93	15.59	25.43	8.07	4.53	5.12	M12	0.87	187	ESX-15010
369.54	17.56	29.37	8.07	4.53	5.12	M12	0.87	206.8	ESX-15012
81.13	8.50	10.47	9.25	5.31	6.50	M12	0.87	149.6	ESX-2002
243.33	12.44	18.35	9.25	5.31	6.50	M12	0.87	204.6	ESX-2006
486.60	18.35	30.16	9.25	5.31	6.50	M12	0.87	283.8	ESX-20012
110.59	9.25	11.22	10.83	6.50	7.48	M12	0.87	228.8	ESX-2502
331.96	13.19	19.09	10.83	6.50	7.48	M12	0.87	305.8	ESX-2506
663.86	19.09	30.91	10.83	6.50	7.48	M12	0.87	422.4	ESX-25012
137.98	12.28	14.25	12.20	7.87	7.09	M16	1.18	389.4	ESX-3002
413.95	16.22	22.13	12.20	7.87	7.09	M16	1.18	490.6	ESX-3006
827.83	22.13	33.94	12.20	7.87	7.09	M16	1.18	644.6	ESX-30012
174.46	14.76	16.73	13.78	8.46	8.07	M16	1.18	607.2	ESX-4002
523.38	18.70	24.61	13.78	8.46	8.07	M16	1.18	741.4	ESX-4006
1051.03	24.61	36.42	13.78	8.46	8.07	M16	1.18	939.4	ESX-40012
222.83	16.50	18.46	15.75	9.84	9.84	M24	1.42	888.8	ESX-5002
668.50	20.43	26.34	15.75	9.84	9.84	M24	1.42	1064.8	ESX-5006
1337.00	26.34	38.15	15.75	9.84	9.84	M24	1.42	1328.8	ESX-50012
260.84	16.89	18.86	16.93	10.63	10.83	M24	1.42	1049.4	ESX-6002
782.57	20.83	26.73	16.93	10.63	10.83	M24	1.42	1249.6	ESX-6006
1565.20	26.73	38.54	16.93	10.63	10.83	M24	1.42	1546.6	ESX-60012
354.78	18.66	20.63	19.88	12.60	12.99	M24	1.42	1643.4	ESX-8002
1064.45	22.60	28.50	19.88	12.60	12.99	M24	1.42	1927.2	ESX-8006
2128.90	28.50	40.31	19.88	12.60	12.99	M24	1.42	2354	ESX-80012
442.56	22.20	24.17	22.05	13.58	14.76	M24	1.42	2354	ESX-10002
1327.73	26.14	32.05	22.05	13.58	14.76	M24	1.42	2690.6	ESX-10006
2655.45	32.05	43.86	22.05	13.58	14.76	M24	1.42	3194.4	ESX-100012

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EDX-SERIES

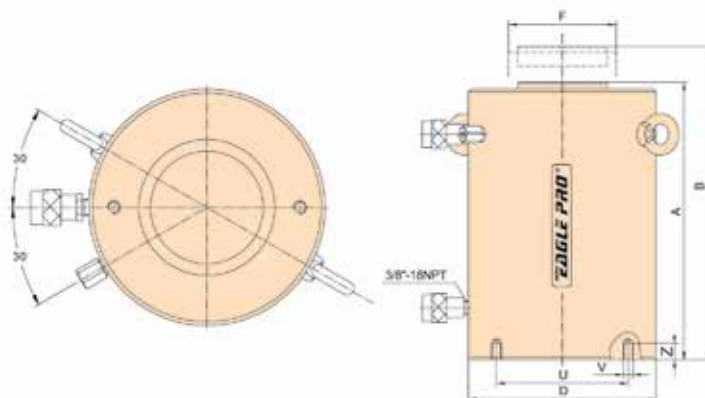


Shown from left to right:
EDX-1006, EDX-1002, EDX-2006

EDX-SERIES DOUBLE ACTING, HIGH TONNAGE CYLINDERS

Features

- ◆ Complies with ASME B30.1 standards. High grade steel cylinder is heat treated for additional strength.
- ◆ Safety valve in retraction side of cylinder helps to prevent damage in case of accidental over pressurization.
- ◆ Easy to carry with threaded hole and ring bolt.
- ◆ High flow EAB-201 quick coupler.
- ◆ Environmentally friendly painting process provides a durable corrosion resistant finish.
- ◆ Double Acting, Hydraulic return.



Cylinder Capacity @700bar ton	Stroke in	Model	Max.Cylinder Capacity	
			Advance ton	Retract ton
50	1.97	EDX-502	59.1	29
	3.94	EDX-504	59.1	29
	5.91	EDX-506	59.1	29
	7.87	EDX-508	59.1	29
	9.84	EDX-5010	59.1	29
	11.81	EDX-5012	59.1	29
100	1.97	EDX-1002	102.9	48
	3.94	EDX-1004	102.9	48
	5.91	EDX-1006	102.9	48
	7.87	EDX-1008	102.9	48
	9.84	EDX-10010	102.9	48
	11.81	EDX-10012	102.9	48
150	1.97	EDX-1502	153.9	75
	3.94	EDX-1504	153.9	75
	5.91	EDX-1506	153.9	75
	7.87	EDX-1508	153.9	75
	9.84	EDX-15010	153.9	75
	11.81	EDX-15012	153.9	75
200	1.97	EDX-2002	206.1	98
	5.91	EDX-2006	206.1	98
	11.81	EDX-20012	206.1	98
250	1.97	EDX-2502	284	118
	5.91	EDX-2506	284	118
	11.81	EDX-25012	284	118
300	1.97	EDX-3002	353.6	117
	5.91	EDX-3006	353.6	117
	11.81	EDX-30012	353.6	117
400	1.97	EDX-4002	433.9	150
	5.91	EDX-4006	433.9	150
	11.81	EDX-40012	433.9	150
500	1.97	EDX-5002	566.3	192
	5.91	EDX-5006	566.3	192
	11.81	EDX-50012	566.3	192
600	1.97	EDX-6002	662	229
	5.91	EDX-6006	662	229
	11.81	EDX-60012	662	229
800	1.97	EDX-8002	911.6	300
	5.91	EDX-8006	911.6	300
	11.81	EDX-80012	911.6	300
1000	1.97	EDX-10002	1136	420
	5.91	EDX-10006	1136	420
	11.81	EDX-100012	1136	420

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EDX-SERIES



Cylinder Effective Area		Oil Capacity		Collapsed Height	Extended Height	Outside Diam.	Plunger Diam.	Base Fix Holes			Weight lbs	Model
Advance in ²	Retract in ²	Advance in ³	Retract in ³	A in	B in	D in	F in	Bolt Circle in	Thread mm	Depth in		
12.17	6.20	23.94	12.20	6.38	8.35	5.08	2.76	2.56	M12	0.87	35.2	EDX-502
12.17	6.20	47.89	24.40	8.35	12.28	5.08	2.76	2.56	M12	0.87	41.8	EDX-504
12.17	6.20	71.83	36.60	10.31	16.22	5.08	2.76	2.56	M12	0.87	50.6	EDX-506
12.17	6.20	95.77	48.80	12.28	20.16	5.08	2.76	2.56	M12	0.87	57.2	EDX-508
12.17	6.20	119.71	61.00	14.25	24.09	5.08	2.76	2.56	M12	0.87	66.0	EDX-5010
12.17	6.20	143.66	73.20	16.22	28.03	5.08	2.76	2.56	M12	0.87	74.8	EDX-5012
20.57	9.59	40.50	18.85	7.05	9.02	6.50	3.74	3.74	M12	0.87	61.6	EDX-1002
20.57	9.59	80.95	37.76	9.02	12.95	6.50	3.74	3.74	M12	0.87	74.8	EDX-1004
20.57	9.59	121.45	56.61	10.98	16.89	6.50	3.74	3.74	M12	0.87	88.0	EDX-1006
20.57	9.59	161.96	75.46	12.95	20.83	6.50	3.74	3.74	M12	0.87	101.2	EDX-1008
20.57	9.59	202.40	94.31	14.92	24.76	6.50	3.74	3.74	M12	0.87	114.4	EDX-10010
20.57	9.59	242.90	113.22	16.89	28.70	6.50	3.74	3.74	M12	0.87	127.6	EDX-10012
31.16	15.05	61.31	29.62	7.72	9.69	8.07	4.53	5.12	M12	0.87	105.6	EDX-1502
31.16	15.05	122.61	59.23	9.69	13.62	8.07	4.53	5.12	M12	0.87	125.4	EDX-1504
31.16	15.05	183.92	88.85	11.65	17.56	8.07	4.53	5.12	M12	0.87	145.2	EDX-1506
31.16	15.05	245.22	118.46	13.62	21.50	8.07	4.53	5.12	M12	0.87	165.0	EDX-1508
31.16	15.05	306.53	148.08	15.59	25.43	8.07	4.53	5.12	M12	0.87	187.0	EDX-15010
31.16	15.05	367.83	177.69	17.56	29.37	8.07	4.53	5.12	M12	0.87	206.8	EDX-15012
41.65	19.47	81.98	38.31	8.35	10.31	9.25	5.31	6.50	M12	0.87	149.6	EDX-2002
41.65	19.47	245.89	114.92	12.28	18.19	9.25	5.31	6.50	M12	0.87	204.6	EDX-2006
41.65	19.47	491.72	229.85	18.19	30.00	9.25	5.31	6.50	M12	0.87	283.8	EDX-20012
56.25	23.13	110.72	46.54	9.25	11.22	10.83	6.50	7.48	M12	0.87	228.8	EDX-2502
56.25	23.13	332.08	139.63	13.19	19.09	10.83	6.50	7.48	M12	0.87	305.8	EDX-2506
56.25	23.13	664.11	279.26	19.09	30.91	10.83	6.50	7.48	M12	0.87	422.4	EDX-25012
70.09	23.82	137.92	46.91	12.68	14.65	12.20	7.87	7.09	M16	1.18	389.4	EDX-3002
70.09	23.82	413.76	140.67	16.61	22.52	12.20	7.87	7.09	M16	1.18	490.6	EDX-3006
70.09	23.82	827.53	281.27	22.52	34.33	12.20	7.87	7.09	M16	1.18	644.6	EDX-30012
88.66	29.2	174.46	64.36	14.72	16.69	13.78	8.46	8.07	M16	1.18	607.2	EDX-4002
88.66	29.2	462.38	193.07	18.66	24.57	13.78	8.46	8.07	M16	1.18	741.4	EDX-4006
88.66	29.2	924.76	386.13	24.57	36.38	13.78	8.46	8.07	M16	1.18	939.4	EDX-40012
113.18	37.14	222.71	73.08	16.50	18.46	15.75	9.84	9.84	M24	1.42	888.8	EDX-5002
113.18	37.14	668.13	219.23	20.43	26.34	15.75	9.84	9.84	M24	1.42	1064.8	EDX-5006
113.18	37.14	1336.27	438.47	26.34	38.15	15.75	9.84	9.84	M24	1.42	1328.8	EDX-50012
132.51	47.06	260.78	92.60	16.89	18.86	16.93	10.43	10.83	M24	1.42	1049.4	EDX-6002
132.51	47.06	782.26	277.79	20.83	26.73	16.93	10.43	10.83	M24	1.42	1249.6	EDX-6006
132.51	47.06	1564.47	555.59	26.73	38.54	16.93	10.43	10.83	M24	1.42	1546.6	EDX-60012
180.36	59.63	354.90	117.36	19.06	21.02	19.88	12.60	12.99	M24	1.42	1643.4	EDX-8002
180.36	59.63	1064.69	352.03	22.99	28.90	19.88	12.60	12.99	M24	1.42	1927.2	EDX-8006
180.36	59.63	2129.39	704.00	28.90	40.71	19.88	12.60	12.99	M24	1.42	2354.0	EDX-80012
224.98	80.15	442.74	157.75	22.20	24.17	22.05	13.58	14.76	M24	1.42	2354.0	EDX-10002
224.98	80.15	1328.15	473.18	26.14	32.05	22.05	13.58	14.76	M24	1.42	2690.6	EDX-10006
224.98	80.15	2656.25	946.29	32.05	43.86	22.05	13.58	14.76	M24	1.42	3194.4	EDX-100012

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ELA-SERIES



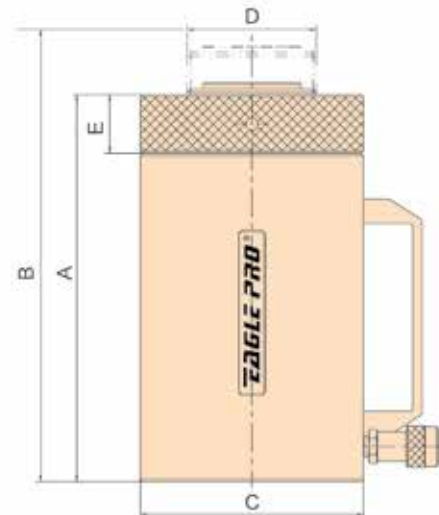
ELA-1006



Lock nut feature permits mechanical load holding

ELA-SERIES SINGLE ACTING ALUMINIUM LOCK NUT CYLINDER

- ◆ Safety lock nut for mechanical load holding.
- ◆ Low weight and good portability.
- ◆ High flow EAB-201 quick coupler.
- ◆ Overflow port functions as a stroke limiter.
- ◆ Spring return .
- ◆ Features carrying handle.



Cylinder Capacity	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Piston Rod Diam.	Nut Thickness	Weight
ton	in		in ²	in ³	A in	B in	C in	D mm	E in	lbs
50	6.00	ELA-556	10.99	67.07	12.50	18.60	5.27	Tr80X4	1.57	26.4
100	6.00	ELA-1006	20.58	128.39	13.37	19.60	7.44	Tr110X6	1.97	66

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ELL-SERIES

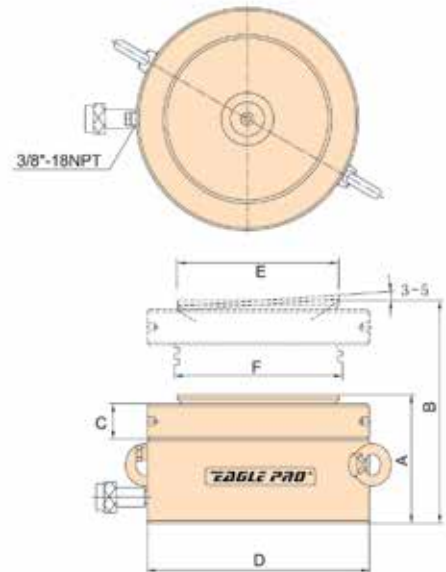


ELL-602, ELL-1002

ELL-SERIES PANCAKE LOCKNUT CYLINDERS

► Features

- ◆ Extremely low height for use in confined spaces.
- ◆ Safety lock nut for mechanical load holding.
- ◆ Tilting saddle.
- ◆ Complies with ASME B30.1. High strength steel for durability and increased safety.
- ◆ Overflow port functions as a stroke limiter.
- ◆ High flow EAB-201 quick coupler.
- ◆ Environmentally friendly painting process provides a durable corrosion resistant finish.



Cylinder Capacity @700bar	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Lock Nut height	Outside Diameter	Saddle diam.	Piston Rod Diameter	Weight
ton	in		in ²	in ³	A	B	C	D	E	F	lbs
60	1.97	ELL-602	13.42	26.41	4.92	6.89	1.10	5.51	3.77	Tr 104 × 4	33
100	1.97	ELL-1002	22.17	43.62	5.39	7.36	1.22	6.89	4.95	Tr 134.5 × 6	57.2
160	1.77	ELL-1602	35.17	62.28	5.83	7.60	1.57	8.66	6.29	Tr 170 × 6	96.8
200	1.77	ELL-2002	43.93	77.78	6.10	7.87	1.69	9.65	7.07	Tr 190 × 6	125.4
260	1.77	ELL-2502	56.25	99.61	6.26	8.03	1.73	10.83	7.86	Tr 215 × 6	162.8
400	1.77	ELL-4002	85.45	151.34	7.01	8.78	2.17	13.78	9.83	Tr 265 × 6	294.8
520	1.77	ELL-5002	113.20	200.45	7.56	9.33	2.44	15.75	11.4	Tr 305 × 6	415.8

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EL-SERIES



EL-1502, EL-1506

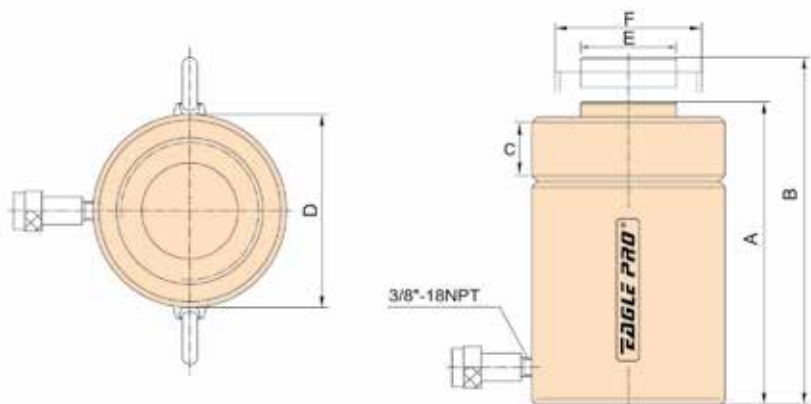
EL-SERIES SINGLE ACTING, LOCK NUT CYLINDERS

► Features

- ◆ Safety Lock Nut for mechanical load holding.
- ◆ High flow EAB-201 quick coupler.
- ◆ Overflow port functions as a stroke limiter.
- ◆ Environmentally friendly painting process provides a durable corrosion resistant finish.



400 ton EAGLE PRO EL series hydraulic cylinders used in bridge building



EAGLE PRO®

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EL-SERIES



Quality pressure hoses



Pressure gauges available to monitor system pressure



Optional tilting and threaded saddles available



Cylinder Capacity @700bar	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Lock Nut height	Outside Diameter	Saddle diam.	Piston Diam	Weight
ton	in		Advance	Advance	A	B	C	D	E	F	lbs
			in ²	in ³	in	in	in	in	in	mm	
50	1.97	EL-502	10.97	21.59	6.46	8.43	1.42	4.92	2.80	Tr 95 × 4	33
	3.94	EL-504	10.97	43.19	8.43	12.36	1.42	4.92	2.80	Tr 95 × 4	44
	5.91	EL-506	10.97	64.78	10.39	16.30	1.42	4.92	2.80	Tr 95 × 4	55
	7.87	EL-508	10.97	86.38	12.36	20.24	1.42	4.92	2.80	Tr 95 × 4	66
	9.84	EL-5010	10.97	107.97	14.33	24.17	1.42	4.92	2.80	Tr 95 × 4	77
	11.81	EL-5012	10.97	129.56	16.30	28.11	1.42	4.92	2.80	Tr 95 × 4	88
95	1.97	EL-1002	20.57	40.47	7.36	9.33	1.73	6.50	2.80	Tr 130 × 6	66
	3.94	EL-1004	20.57	80.95	9.33	13.27	1.73	6.50	2.80	Tr 130 × 6	85.8
	5.91	EL-1006	20.57	121.42	11.30	17.20	1.73	6.50	2.80	Tr 130 × 6	105.6
	7.87	EL-1008	20.57	161.89	13.27	21.14	1.73	6.50	2.80	Tr 130 × 6	123.2
	9.84	EL-10010	20.57	202.37	15.24	25.08	1.73	6.50	2.80	Tr 130 × 6	140.8
	11.81	EL-10012	20.57	242.84	17.20	29.02	1.73	6.50	2.80	Tr 130 × 6	160.6
140	1.97	EL-1502	31.16	61.31	8.23	10.20	1.73	8.07	5.12	Tr160 × 6	116.6
	3.94	EL-1504	31.16	122.61	10.20	14.13	1.73	8.07	5.12	Tr160 × 6	145.2
	5.91	EL-1506	31.16	183.92	12.17	18.07	1.73	8.07	5.12	Tr160 × 6	171.6
	7.87	EL-1508	31.16	245.22	14.13	22.01	1.73	8.07	5.12	Tr160 × 6	202.4
	9.84	EL-15010	31.16	306.53	16.10	25.94	1.73	8.07	5.12	Tr160 × 6	228.8
	11.81	EL-15012	31.16	367.83	18.07	29.88	1.73	8.07	5.12	Tr160 × 6	257.4
185	1.97	EL-2002	43.93	86.44	9.57	11.54	1.97	9.25	5.12	Tr185 × 6	182.6
	5.91	EL-2006	43.93	259.31	13.50	19.41	1.97	9.25	5.12	Tr185 × 6	259.6
	9.84	EL-20010	43.93	432.19	17.44	27.28	1.97	9.25	5.12	Tr185 × 6	336.6
250	1.97	EL-2502	56.25	110.68	9.80	11.77	2.20	10.83	5.91	Tr 215 × 6	255.2
	5.91	EL-2506	56.25	332.05	13.74	19.65	2.20	10.83	5.91	Tr 215 × 6	358.6
	9.84	EL-25010	56.25	553.42	17.68	27.52	2.20	10.83	5.91	Tr 215 × 6	462
300	1.97	EL-3002	70.09	137.92	11.61	13.58	2.36	12.20	5.47	Tr 240 × 6	380.6
	5.91	EL-3006	70.09	413.76	15.55	21.46	2.36	12.20	5.47	Tr 240 × 6	512.6
	9.84	EL-30010	70.09	689.61	19.49	29.33	2.36	12.20	5.47	Tr 240 × 6	644.6
400	1.97	EL-4002	88.66	177.21	13.19	15.16	2.76	13.78	6.26	Tr 265 × 6	552.2
	5.91	EL-4006	88.66	531.62	17.13	23.03	2.76	13.78	6.26	Tr 265 × 6	719.4
	9.84	EL-40010	88.66	886.03	21.06	30.91	2.76	13.78	6.26	Tr 265 × 6	886.6
500	1.97	EL-5002	113.18	222.71	14.76	16.73	3.15	15.75	7.05	Tr 305 × 6	807.4
	5.91	EL-5006	113.18	668.13	18.70	24.61	3.15	15.75	7.05	Tr 305 × 6	1027.4
	9.84	EL-50010	113.18	1113.56	22.64	32.48	3.15	15.75	7.05	Tr 305 × 6	1249.6
600	1.97	EL-6002	132.51	260.74	15.55	17.52	3.35	16.93	7.64	Tr 330 × 6	983.4
	5.91	EL-6006	132.51	782.23	19.49	25.39	3.35	16.93	7.64	Tr 330 × 6	1238.6
	9.84	EL-60010	132.51	1303.72	23.43	33.27	3.35	16.93	7.64	Tr 330 × 6	1496
800	1.97	EL-8002	180.36	354.90	17.91	19.88	3.94	19.88	8.82	Tr 385 × 6	1564.2
	5.91	EL-8006	180.36	1064.69	21.85	27.76	3.94	19.88	8.82	Tr 385 × 6	1916.2
	9.84	EL-80010	180.36	1774.49	25.79	35.63	3.94	19.88	8.82	Tr 385 × 6	2268.2
1000	1.97	EL-10002	224.98	442.71	19.49	21.46	4.33	22.05	9.80	Tr 430 × 6	2092.2
	5.91	EL-10006	224.98	1328.12	23.43	29.33	4.33	22.05	9.80	Tr 430 × 6	2514.6
	9.84	EL-100010	224.98	2213.54	27.36	37.20	4.33	22.05	9.80	Tr 430 × 6	2937

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Download Tech Sheet **10071** for ESP-Series PDF

ESP-SERIES



Shown from left to right:
ESP-606, ESP-25, ESP-46

ESP-SERIES PULL CYLINDERS

► Features

- ◆ High strength alloy steel construction.
- ◆ Baked enamel finish prevent rust and corrosion.
- ◆ Chromed piston rod for wear and corrosion resistance.
- ◆ High flow EAB-201 quick couplers.

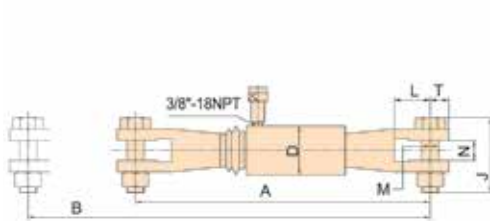
Cylinder Capacity @700bar	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Link Holes width
					A	B		
ton	in		in ²	in ³	in	in	in	in
10	5.94	ESP-106C	2.43	14.46	23.11	29.06	3.39	4.69
10	5.94	ESP-106L	2.43	14.46	21.34	27.28	3.39	2.64
30	6.10	ESP-306	7.38	44.96	42.72	48.82	5.39	4.49
50	5.98	ESP-606	11.16	66.86	28.35	34.33	5.47	5.12

Cylinder Capacity @700bar	Stroke	Model	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Outside Diameter	Plunger Diam.	Top to Port	Saddle Diameter
					A	B				
ton	in		in ²	in ³	in	in	in	in	in	in
2.5	5.00	ESP-25	0.65	3.29	10.43	15.43	1.93	0.75	1.77	3/4"-14
5	5.51	ESP-46	1.13	6.22	11.89	17.40	2.24	1.18	1.65	1 1/4"-11 1/2
10	5.94	ESP-106	2.33	13.85	11.38	17.32	3.31	1.26	1.54	-

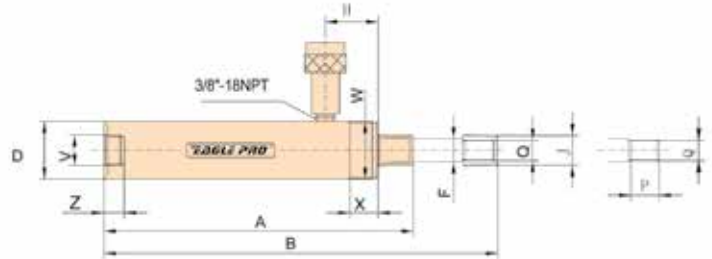
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ESP-SERIES

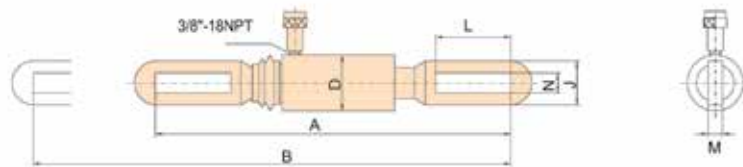


ESP106C

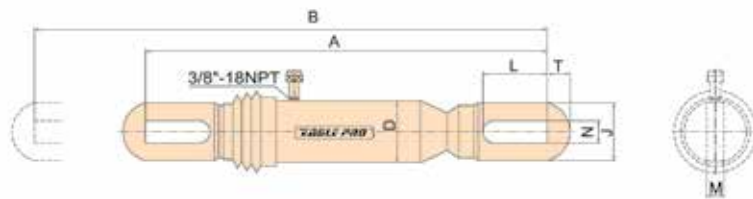


ESP25 ESP46 ESP106

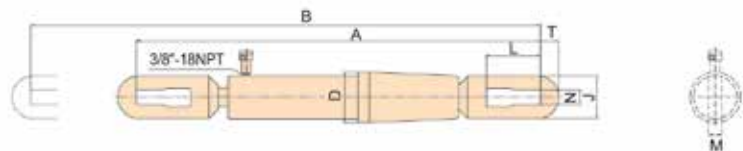
ESP106L



ESP606



ESP306



Link Holes Opening Length	Link Bolt Diameter	Link Holes width	Link Holes end width	Weight	Model
L	M	N	T		
in	in	in	in	lbs	
2.44	1.18	1.38	1.26	35.2	ESP-106C
4.53	0.87	1.18	1.26	29.26	ESP-106L
5.71	1.38	1.54	1.97	106.04	ESP-306
5.87	1.54	1.97	2.76	117.92	ESP-606

Plunger Thread Length	Plunger Outside Length	Base Fix Holes	Collar Thread	Collar Thread Length	Thread Length	Weight	Model
P	Q	V	W	X	Z		
in	in	in		in	in	lbs	
1.10	11/16"-24	3/4"-14NPT	1 1/2"-16UN	0.94	0.67	3.96	ESP-25
1.26	1 3/16"-16	1 1/4"-11 1/2NPT	2 1/4"-14UN	1.02	0.94	9.9	ESP-46
0.98	M30X2	M30X2	M85X2	0.98	0.94	20.9	ESP-106

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Download Tech Sheet **10072** for Hydraulic Pump & Cylinder Sets PDF

Hydraulic Pump & Cylinder Sets

HYDRAULIC PUMP AND CYLINDER SETS

Hydraulic pump, Cylinder, Hose and Gauge

► Features

- ◆ Each set comes with a 6 foot hose, a high flow coupler, gauge, and gauge adapter.
- ◆ Cylinders can be used in more applications.
- ◆ Monitor the system pressure is provided with the gauge.
- ◆ Low weight and high flow pumps provide more effective performance.

Single acting/Spring return cylinder Sets

Model	Max. Capacity	Stroke	Collapsed Height	Cylinder	Pump
	Ton	in	in		
ESS-55	5	5.00	8.50	ES-55	EPA-10521
ESS-102	10	2.13	4.76	ES-102	EPA-10921A
ESS-106	10	6.14	9.76	ES-106	EPA-10921A
ESS-1010	10	10.12	13.74	ES-1010	EPA-10921A
ESS-154	15	4.02	7.87	ES-154	EPA-10921A
ESS-156	15	5.98	10.71	ES-156	EPA-10921A
ESS-252	25	2.01	6.50	ES-252	EPA-10921A
ESS-256	25	6.26	10.75	ES-256	EPA-10921A
ESS-2514	26	14.25	18.74	ES-2514	EPA-12321A
ESS-506	50	6.26	11.14	ES-506	EPA-12321A

Hollow center cylinder sets

Model	Max. Capacity	Stroke	Collapsed Height	Cylinder	Pump
	Ton	in	in		
ESSH-121	10	1.65	4.72	ESH-121	EPA-10521
ESSH-202	20	1.93	6.38	ESH-202	EPA-10921A
ESSH-302	30	2.52	7.05	ESH-302	EPA-10921A
ESSH-306	30	6.10	12.99	ESH-306	EPA-12321A
ESSH-603	60	2.99	9.72	ESH-603	EPA-12321A

Low height Cylinder Sets

Model	Max. Capacity	Stroke	Collapsed Height	Cylinder	Pump
	Ton	in	in		
ESSL-101	10	1.50	3.46	ESL-101	EPA-10521
ESSL-201	20	1.73	3.90	ESL-201	EPA-10921A
ESSL-302	30	2.44	4.65	ESL-302	EPA-10921A
ESSL-502	45	2.36	4.80	ESL-502	EPA-10921A
ESSL-1002	90	2.24	5.55	ESL-1002	EPA-12321A

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Download Tech Sheet **10072** for Hydraulic Pump & Cylinder Sets PDF

Hydraulic Pump & Cylinder Sets



Hose	Coupler	Gauge	Gauge Adapter	Model
EH-8206	EAB-201B	EG2510	EGA-003	ESS-55
EH-8206	EAB-201B	EG4010	EGA-002	ESS-102
EH-8206	EAB-201B	EG4010	EGA-002	ESS-106
EH-8206	EAB-201B	EG4010	EGA-002	ESS-1010
EH-8206	EAB-201B	EG4010	EGA-002	ESS-154
EH-8206	EAB-201B	EG4010	EGA-002	ESS-156
EH-8206	EAB-201B	EG4010	EGA-002	ESS-252
EH-8206	EAB-201B	EG4010	EGA-002	ESS-256
EH-8206	EAB-201B	EG4010	EGA-002	ESS-2514
EH-8206	EAB-201B	EG4010	EGA-002	ESS-506

Hose	Coupler	Gauge	Gauge Adapter	Model
EH-8206T	EAB-202B	EG2510	EGA-011	ESSH-121
EH-8206	EAB-201B	EG4010	EGA-002	ESSH-202
EH-8206	EAB-201B	EG4010	EGA-002	ESSH-302
EH-8206	EAB-201B	EG4010	EGA-002	ESSH-306
EH-8206	EAB-201B	EG4010	EGA-002	ESSH-603

Hose	Coupler	Gauge	Gauge Adapter	Model
EH-8206	EAB-201B	EG2510	EGA-003	ESSL-101
EH-8206	EAB-201B	EG4010	EGA-002	ESSL-201
EH-8206	EAB-201B	EG4010	EGA-002	ESSL-302
EH-8206	EAB-201B	EG4010	EGA-002	ESSL-502
EH-8206	EAB-201B	EG4010	EGA-002	ESSL-1002

EAGLE PRO®

Hydraulic Pump & Cylinder Sets

HYDRAULIC HAND PUMP SELECTION CHART

Model	Stage	Flow (in³)	CAPACITY (tons)													
			5	10	15	25	30	50	75	100	150	200	250	300	400	500
			REQUIRED STROKES FOR CYLINDER TO LIFT 1 INCH													
EPA-10521	1ST STAGE	0.22	5	10	15											
	2ND STAGE	0.05	19	42	58											
EPA-10921A	1ST STAGE	2.038	1	2	2	3										
	2ND STAGE	0.201	6	12	16	26										
EPA-10922A	1ST STAGE	2.038	1	2	2	3										
	2ND STAGE	0.201	6	12	16	26										
EPA-11621	1ST STAGE	1.93	1	1	2	3	3	6								
	2ND STAGE	0.22	6	12	16	24	34	51								
EPA-12321A	1ST STAGE	2.038	1	2	2	3	4	6	8							
	2ND STAGE	0.201	6	12	16	26	31	55	81							
EPA-12322A	1ST STAGE	2.038	1	2	2	3	3	6	8							
	2ND STAGE	0.201	6	12	16	26	34	55	81							
EPA-14521	1ST STAGE	1.59	1	1	2	3	4	8	10	13	19	26				
	2ND STAGE	0.18	6	13	18	29	38	69	90	114	174	229				
EPA-14522	1ST STAGE	1.59	1	1	2	3	4	8	10	13	19	26				
	2ND STAGE	0.18	6	13	18	29	38	69	90	114	174	229				
EPA-17521	1ST STAGE	7.63	1	1	1	1	1	2	2	3	4	5	7			
	2ND STAGE	0.35	3	7	9	15	19	35	45	58	88	116	158			
EPA-17522	1ST STAGE	7.63	1	1	1	1	1	2	2	3	4	5	7			
	2ND STAGE	0.35	3	7	9	15	19	35	45	58	88	116	158			

AIR/HYDRAULIC HAND PUMP SELECTION CHART

Model	Single Stage	Flow (in³)	CAPACITY (tons)													
			5	10	15	25	30	50	75	100	150	200	250	300	400	500
			REQUIRED TIME (seconds) FOR CYLINDER TO LIFT 1 INCH													
EPC-001	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50	25.60						
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00	166.00						
EPC-002	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50							
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00							
EPC-003	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50	25.60						
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00	166.00						
EPC-004	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50	25.60	38.00					
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00	166.00	252.50					
EPC-008	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50							
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00							
EPC-009	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50	25.60	38.00					
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00	166.00	252.50					
EPC-010	Low Pressure	0.81	1.30	2.90	3.90	6.40	8.30	15.00	19.50							
	High Pressure	0.12	8.70	19.00	26.30	42.50	55.00	100.00	130.00							

HYDRAULIC ELECTIC PUMP SELECTION CHART

Model	Stage	Flow (m³/s)	CAPACITY (tons)													
			5	10	15	25	30	50	75	100	150	200	250	300	400	500
			REQUIRED TIME (seconds) FOR CYLINDER TO LIFT 1 INCH													
EPB-3B+	1st Stage	4.00	0.3	0.6	0.8	1.3	1.7	2.8	4.0	5.1						
	2nd Stage	0.33	3.3	6.8	9.9	15.6	20.7	33.3	48.8	62.1						
EPB-6B+	1st Stage	10.17	0.1	0.2	0.3	0.5	0.7	1.1	1.6	2.0	3.0	4.1				
	2nd Stage	0.65	1.7	3.5	5.0	7.9	10.5	16.9	24.8	31.5	47.5	63.4				
EPB-10B+	1st Stage	10.17	0.1	0.2	0.3	0.5	0.7	1.1	1.6	2.0	3.0	4.1	7.0			
	2nd Stage	1.00	1.1	2.3	3.3	5.2	6.8	11.0	16.1	20.5	30.9	41.2	70.7			
EPB-20B+	1st Stage	10.17	0.1	0.2	0.3	0.5	0.7	1.1	1.6	2.0	3.0	4.1	7.0	7.0	8.7	11.1
	2nd Stage	2.00	0.6	1.1	1.6	2.6	3.4	5.5	8.1	10.3	15.4	20.6	35.4	35.4	44.3	56.6

Recommended application Selective use Not recommended

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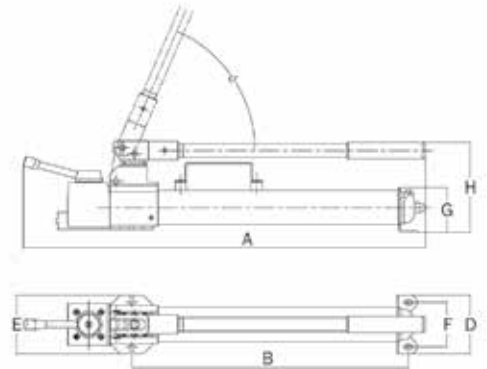
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EPA-SERIES

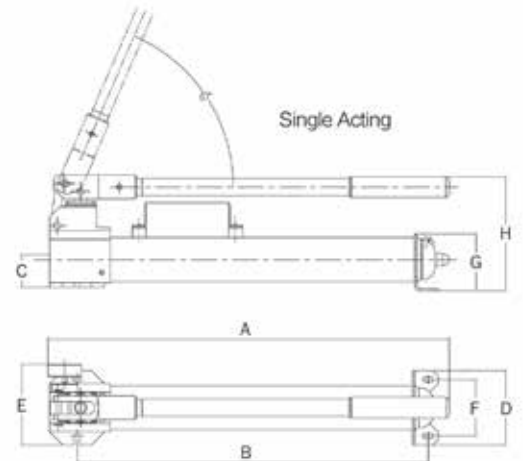


EPA-10521

EPA-10921A



Double Acting



Single Acting

EPA-SERIES HAND PUMPS

Features

- ◆ High strength alloy steel, engineered for use in extreme environment.
- ◆ Compact, easy to carry.
- ◆ User friendly design.
- ◆ Built-in safety valve.
- ◆ Used for various cylinders and tools.



EPA-11621

Used With Cylinder	Model	Speed	Usable Oil Volume	Pressure rating		Oil output per stroke		Handle Force	Output Oil Thread	Weight
				1 st stage	2 nd stage	1 st stage	2 nd stage			
				in ³	psi	in ³	in ³	lbs	in	lbs
Single Acting	EPA-10521★	Double	20	200	10,000	0.48	0.05	77	3/8-18NPT	4.8
	EPA-10921A	Double	55	360	10,000	2.038	0.201	108	3/8-18NPT	16.06
	EPA-12321A	Double	140	360	10,000	2.038	0.201	108	3/8-18NPT	22.22
	EPA-11621	Double	98	360	10,000	1.93	0.19	95	3/8-18NPT	24
Double Acting	EPA-10922A	Double	55	360	10,000	2.038	0.201	108	3/8-18NPT	19.36
	EPA-12322A	Double	140	360	10,000	2.038	0.201	108	3/8-18NPT	25.52

★ EPA 10521: Aluminum Hand Pump

Model	A	B	C	D	E	F	G	H
	in	in	in	in	in	in	in	in
EPA-10521	13.2	/	/	1.1	3.7	/	/	5.6
EPA-10921A	22.93	19.88	1.85	4.25	5.12	3.23	3.23	6.50
EPA-12321A	22.93	19.88	1.85	4.92	5.43	/	3.25	6.34
EPA-10922A	29.09	20.00	1.14	4.25	4.25	3.23	3.23	6.50
EPA-12322A	29.09	20.00	1.14	4.92	4.25	/	3.25	6.34
EPA-11621	28.8	19.9	1.61	5.5	4.7	3.9	3.3	6.3

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EPA-SERIES



EPA- 14521

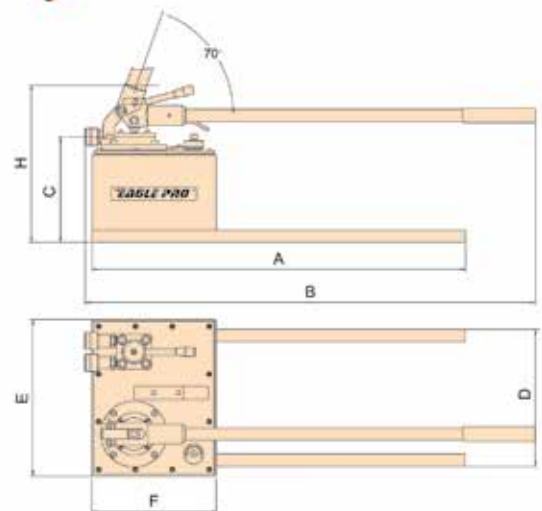


EPA-17522

EPA-SERIES HAND PUMPS

► Features

- ◆ High strength alloy steel, engineered for use in extreme environment.
- ◆ User friendly design.
- ◆ Built in safety valve.



Used With Cylinder	Model	Speed	Usable Oil Volume	Pressure rating		Oil output per stroke		Handle Force	Output Oil Thread	Weight
				1 st stage	2 nd stage	1 st stage	2 nd stage			
Single Acting	EPA-14521	Double	275	260	10,000	1.59	0.18	112	3/8-18NPT	49.5
	EPA-17521	Double	458	260	10,000	7.6	0.35	112	3/8-18NPT	66
Double Acting	EPA-14522	Double	275	260	10,000	1.59	0.18	112	3/8-18NPT	49.5
	EPA-17522	Double	458	260	10,000	7.6	0.35	112	3/8-18NPT	66

Model	A	B	C	D	E	F	H
	in	in	in	in	in	in	in
EPA-14521	22.8	23.9	6.4	10.8	12.4	9.8	10.5
EPA-14522	22.8	23.9	6.4	10.8	12.4	9.8	10.5
EPA-17521	31.5	35.6	8.3	10.8	12.4	9.8	12.4
EPA-17522	31.5	35.6	8.3	10.8	12.4	9.8	12.4

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EPA-SERIES

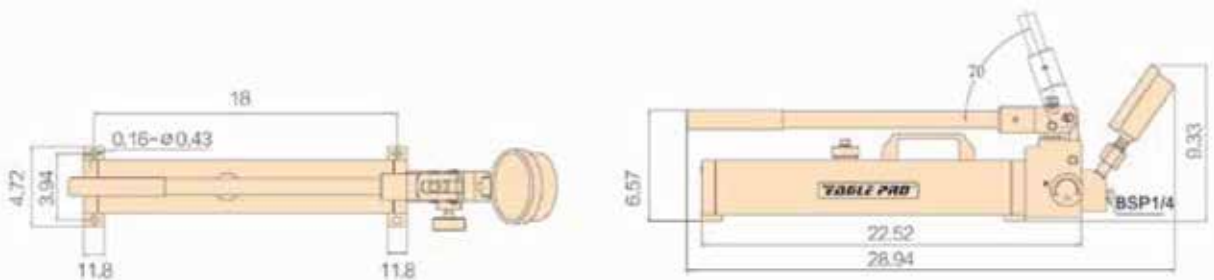


EPA-21621

EPA-SERIES ULTRA-HIGH PRESSURE HAND PUMP

Features

- ◆ Convenient high strength design, engineered for use in extreme environments.
- ◆ Dual speed pump.
- ◆ Built-in safety valve for overload protection.
- ◆ Unique handle designed to require less effort, saving you time and energy.



Used With Cylinder	Model	Speed	Usable Oil Volume	Pressure rating		Oil out per stroke		Handle Force	Output Oil Thread	Weight
				1st stage	2nd stage	1st stage	2nd stage			
				Bar	Bar	in ³	in ³			
Single Acting	EPA-21621	Double	1600	18	1500	1.95	0.05	44	1/4BSP	17.6
Single Acting	EPA-31621	Double	1600	18	2100	1.95	0.05	66	1/4BSP	17.6
Single Acting	EPA-41621	Double	1600	18	2800	1.95	0.05	92	1/4BSP	17.6

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EPC-SERIES

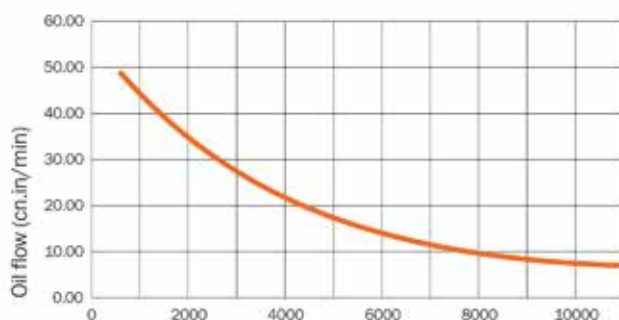


EPC-SERIES AIR HYDRAULIC PUMPS

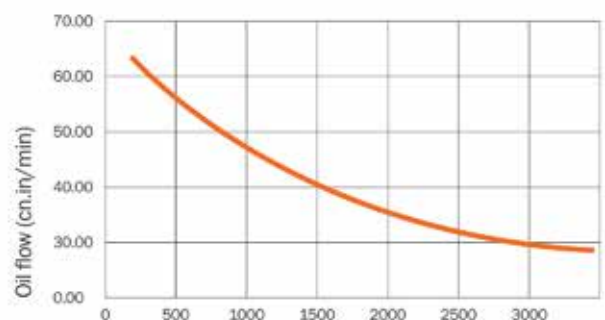
Features

- ◆ Can be used with a variety of Hydraulic cylinders, Presses or other Hydraulic tools.
- ◆ Operating air pressure between 0.6-1.0 PSI.
- ◆ Provides up to 10000 PSI of hydraulic pressure.
- ◆ Input port thread 1/4-18 NPT and output 3/8-18 NPT.
- ◆ Internal load limiting device avoids overload.
- ◆ Air exhaust muffler for quiet operation.
- ◆ Pumps feature both air and oil filters to reduce risk of damage from environmental contaminants.
- ◆ Various capacities available with plastic, aluminum, or steel housings.

10000 PSI Air Hydraulic Pump Flow Rate



3000 PSI Air Hydraulic Pump Flow Rate



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EPC-SERIES



EPC-008



Knob style vent valve provides better operation and protection

Model	Pressure Rating (PSI)	Air Source Pressure (PSI)	Effective Oil Capacity (cu.in)	Flow(cu.in/min)		Dimensions(in.)			Oil Tank Material	Operational Manner	Weight lbs
				No load	Load	L	W	H			
EPC-001	10000	90-145	140	49.5	7.6	12.3	6.7	7.5	Engineering Plastic	Foot Pedal	26
EPC-002	10000	90-145	98	49.5	7.6	10.3	5.3	7.3	Alloy Aluminum	Foot Pedal	19
EPC-003	10000	90-145	275	49.5	7.6	12.5	7	7.5	Steel	Foot Pedal	28
EPC-004	10000	90-145	442	49.5	7.6	11	8.8	10	Steel	Foot Pedal	36
EPC-008	10000	90-145	98	49.5	7.6	10.3	5.3	7.3	Alloy Aluminum	Remote Control	25
EPC-009	10000	90-145	442	49.5	7.6	10.3	5.3	7.3	Steel	Remote Control	43
EPC-010	10000	90-145	98	49.5	7.6	10.3	5.3	7.3	Engineering Plastic	Foot Pedal	19

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Download Tech Sheet **10077** for EPB-Series PDF

EPB-SERIES

EPB-SERIES ELECTRIC PUMPS

► Features

- ◆ Covers most applications in the industry.
- ◆ High flow rate reaches 20in³/min and 39in³/min.
- ◆ 10Ft 24V, remote control or solenoid control for operator safety.
- ◆ 0.75hp and 1.0 hp motor.
- ◆ Starts under full load.
- ◆ High strength frame with handle for maximum portability.

Reservoir Capacity

0.53 , 1.3 , 2.6 Gallon

Flow at Rated Pressure

20, 39 in³/min

Motor

0.75, 1.0hp

EPB-3B SERIES		Description	Output Flow Rate (cu.in./min)	
Used with cylinder	Model		First stage	Second stage
Single Acting	EPB-3B1P5A	0.75hp pump with 1.3 Gallon usable oil reservoir, 2W/2P, manual valve, pendant switch, 115V.	244	20
Dump	EPB-3B10P2A	0.75hp pump with 0.53 Gallon usable oil reservoir, 2W/2P, with Dump Valve. Suited for crimping, punching, pressing. Not for lifting.	244	20
Double Acting	EPB-3B5P5A	0.75hp pump with 1.3 Gallon usable oil reservoir, 4W/3P manual valve, pendant switch, 115V.	244	20

EPB-6B SERIES		Description	Output Flow Rate (cu.in./min)	
Used with cylinder	Model		First stage	Second stage
Single Acting	EPB-6B8P10A	1.0 hp pump with 2.6 Gallon usable oil reservoir, 3W/3P manual valve, pendant switch, 115V.	610	39
	EPB-6B2D10A	1.0 hp pump with 2.6 Gallon usable oil reservoir, 2W/2P, Solenoid valve, pendant switch, 115V.	610	39
Double Acting	EPB-6B5P10A	1.0 hp pump with 2.6 Gallon usable oil reservoir, 4W/3P manual valve, pendant switch, 115V.	610	39
	EPB-6B4D10A	1.0 hp pump with 2.6 Gallon usable oil reservoir, 4W/2P Solenoid valve, pendant switch, 115V.	610	39

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Download Tech Sheet **20466** for EPD-Series PDF

EPD-SERIES



Single Acting, 3 Position, 2 Way

Model	Litres	Valve Type
EPD-1008	20	Manual



Double Acting, 3 Position, 4 Way

Model	Litres	Valve Type
EPD-1005	20	Manual

PETROL DRIVEN PUMPS

Features

- ◆ The pump unit operates both low pressure and high pressure as two stages: high flow rate with 8.5 l/min at 10 bar and 1.8 l/min at 700 bar
- ◆ 5.5hp power motor
- ◆ Complete with pressure adjusting valve
- ◆ High strength frame with handle for maximum portability
- ◆ Manual control valve for use with single or double acting cylinders or tools

Model	EPD-1005/EPD-1008	Continuous Working Time	3-5 hours
First Stage Pressure	5MPa	Flow Rate at First Stage	10 l/min
Second Stage Pressure	70MPa	Flow Rate at Second Stage	1.8 l/min
Usable Oil	15 litre	Oil Type	ISO 32#
Dimensions	650 x 450 x 698mm	Weight	41kg without oil
Motor Model	EA190V Subaru	Cooling Way/Stroke	Air/ 4
Efficiency	5.5hp	Power	190cc
Speed	3600r/min	Cylinder Dia. *Stroke	68*52mm
Lube Oil	API/SE or SAE/10W-30 etc	Petrol Cap	1.2 litre
Fuel	Petrol	Full Tank Working Time	50 minutes

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EPB-SERIES



EPB-3B5P5A



EPB-3B1P5A

Valve	Valve Type	Valve Function	Control Switch	Motor	Usable Oil Capacity	Weight
EV-42H2	2W,2P	Advance return**	Remote Motor Control (10 ft)	0.75hp 115V/60 HZ	1.3 Gallon	59 lbs
EV-62H3	2W,2P Auto/Dump	Advance return	Remote Motor Control (10 ft)	0.75hp 115V/60 HZ	0.53 Gallon	35 lbs
EV-43M4	4W,3P	Advance/hold return	Remote Motor Control (10 ft)	0.75hp 115V/60 HZ	1.3 Gallon	59 lbs

Valve	Valve Type	Valve Function	Control Switch	Motor	Usable Oil Capacity	Weight
EV-43M3	3W,3P	Advance hold/return	Remote Motor Control (10 ft)	1.0 hp 115V/60 HZ	2.6 Gallon	81 lbs
EV-52H2	2W,2P	Advance Return **	Remote Motor and Valve	1.0 hp 115V/60 HZ	2.6 Gallon	81 lbs
EV-43M4	4W,3P	Advance hold/return	Remote Motor Control (10 ft)	1.0 hp 115V/60 HZ	2.6 Gallon	81 lbs
EV-52H4	4W,2P	Advance Return **	Remote Motor and Valve	1.0 hp 115V/60 HZ	2.6 Gallon	81 lbs

** "Advance" position holds pressure with motor shut off.

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EPB-SERIES

EPB-SERIES ELECTRIC PUMPS

► Features

- ◆ Covers most applications in the industry.
- ◆ High flow rate reaches 60in³/min and 120in³/min.
- ◆ 10Ft 24V, remote control or solenoid control for operator safety.
- ◆ 2.0 hp and 3.0 hp motor.
- ◆ Starts under full load.
- ◆ High strength frame with handle for maximum portability.

Reservoir Capacity

2.6, 5.3 Gallon

Flow at Rated Pressure

60, 120 in³/min

Motor

2.0,3.0hp

EPB-10B SERIES		Description	Output Flow Rate (cu.in./min)	
Used with cylinder	Model		First stage	Second stage
Single Acting	EPB-10B8P10A	2.0 hp pump with 2.6 Gallon usable oil reservoir, 3W/3P manual valve, pendant switch,115V.	610	60
	EPB-10B2D10A	2.0 hp pump with 2.6 Gallon usable oil reservoir, 2W/2P, Solenoid valve, pendant switch,115V.	610	60
Double Acting	EPB-10B5P10A	2.0 hp pump with 2.6 Gallon usable oil reservoir, 4W/3P manual valve, pendant switch,115V.	610	60
	EPB-10B4D10A	2.0 hp pump with 2.6 Gallon usable oil reservoir, 4W/2P Solenoid valve, pendant switch,115V.	610	60

EPB-20B SERIES		Description	Output Flow Rate (cu.in./min)	
Used with cylinder	Model		First stage	Second stage
Single Acting	EPB-20B8M20C	3.0 hp pump with 5.3 Gallon usable oil reservoir, 3W/3P manual valve,230V.	610	120
Double Acting	EPB-20B5M20C	3.0 hp pump with 5.3 Gallon usable oil reservoir, 4W/3P manual valve,230V.	610	120

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EPB-SERIES



EPB- 10B4D10A



EPB- 10B5P10A

Valve	Valve Type	Valve Function	Control Switch	Motor	Usable Oil Capacity	Weight
EV-43M3	3W,3P	Advance hold/return	Remote Motor Control (10 ft)	2.0hp 115V/60 HZ	2.6 Gallon	99 lbs
EV-52H2	2W,2P	Advance Return **	Solenoid Control (10 ft)	2.0hp 115V/60 HZ	2.6 Gallon	99 lbs
EV-43M4	4W,3P	Advance hold/return	Remote Motor Control (10 ft)	2.0hp 115V/60 HZ	2.6 Gallon	99 lbs
EV-52H4	4W,2P	Advance Return **	Solenoid Control (10 ft)	2.0hp 115V/60 HZ	2.6 Gallon	99 lbs

Valve	Valve Type	Valve Function	Control Switch	Motor	Usable Oil Capacity	Weight
EV-43M3	3W,3P	Advance hold/return	Manual Control	3.0 hp,3 Phase 230V/60HZ	5.3 Gallon	132 lbs
EV-43M4	4W,3P	Advance hold/return	Manual Control	3.0 hp,3 Phase 230V/60HZ	5.3 Gallon	132 lbs

** "Advance" position holds pressure with motor shut off.

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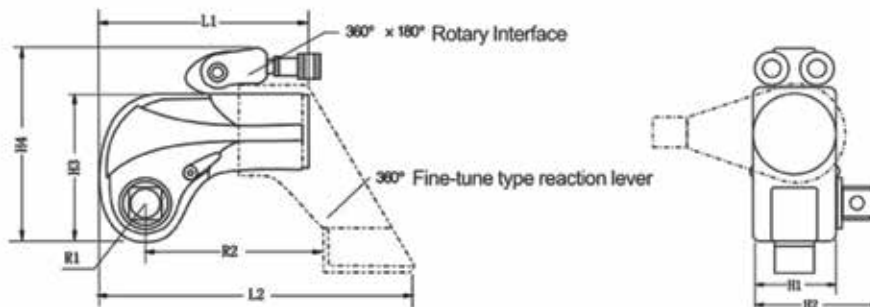
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ESW-SERIES

ESW-SERIES HYDRAULIC TORQUE WRENCH

► Features

- ◆ Accuracy within $\pm 3\%$
- ◆ 8 models with a range from 189 to 48670 Nm
- ◆ Covers the majority of bolt sizes
- ◆ Square drive operation
- ◆ 360° adjustable reaction arm
- ◆ Heat treated
- ◆ Lifetime warranty



SERIES	SQUARE DRIVE	TENSION RANGE	BOLTS RANGE	WEIGHT	L1	L2	H1	H2	H3	H4	R1	R2
		N. m	M	Kg	mm	mm	mm	mm	mm	mm	mm	mm
ESW-1	3/4"	189-1897	16-36	2	130	182	50	72	99	144	26	99
ESW-3	1	450-4510	22-48	4	166	241	68	95	130	176	34	134
ESW-5	1-1/2"	737-7368	27-56	7	198	281	80	123	155	198	39	152
ESW-8	1-1/2"	1078-10784	30-64	9.1	213	308	90	130	171	216	47	171
ESW-10	1-1/2"	1550-15503	36-72	13.1	231	336	100	141	187	230	51	174
ESW-20	2-1/2"	2666-26658	42-90	25	295	443	120	182	228	268	59	250
ESW-25	2-1/2"	3472-34724	48-100	31	314	464	137	200	255	295	67	251
ESW-35	2-1/2"	4867-48670	64-120	45	355	489	153	217	290	330	79	271

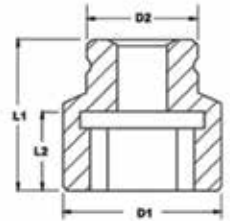
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ESW-SERIES



- ◆ Made of high quality chromium alloy material
- ◆ Heat treated for long life



model	Wrench Model	Size	Bolt Model	Across side	L1	L2	D1	D2
				mm	mm	mm	mm	mm
ESWT-75024	ESW-1	3/4"	M16	24	54	32	40	40
ESWT-75027			M18	27	54	32	42	42
ESWT-75030			M20	30	54	33	46	44
ESWT-75034			M22	34	54	32	48	44
ESWT-75036			M24	36	57	32	53	44
ESWT-75041			M27	41	58	33	60	44
ESWT-75046			M30	46	63	38	66	44
ESWT-75050			M33	50	65	40	71	44
ESWT-75055			M36	55	70	45	77	54
ESWT-10030	ESW-3	1"	M20	30	59	32	54	54
ESWT-10034			M22	34	59	32	58	58
ESWT-10036			M24	36	62	32	59	59
ESWT-10041			M27	41	65	38	67	54
ESWT-10046			M30	46	65	38	74	54
ESWT-10050			M33	50	70	43	79	60
ESWT-10055			M36	55	80	52	84	60
ESWT-10060			M39	60	85	57	89	60
ESWT-10065			M42	65	85	58	98	70
ESWT-10070	ESW-5	1-1/2"	M45	70	90	62	104	70
ESWT-10075			M48	75	95	65	108	70
ESWT-15036			M24	36	85	44	74	74
ESWT-15041			M27	41	85	44	74	74
ESWT-15046			M30	46	85	44	74	74
ESWT-15050			M33	50	90	45	79	79
ESWT-15055			M36	55	90	45	84	84
ESWT-15060			M39	60	100	45	94	94
ESWT-15065			M42	65	100	45	98	80
ESWT-15070	ESW-8	1-1/2"	M45	70	105	50	104	80
ESWT-15075			M48	75	110	50	118	85
ESWT-15080			M52	80	115	55	118	90
ESWT-15085			M56	85	125	60	128	90
ESWT-15090			M60	90	125	60	139	90
ESWT-15095			M64	95	130	65	139	90
ESWT-15100			M68	100	135	70	144	90
ESWT-15105			M72	105	135	70	149	90
ESWT-15110			M76	110	135	70	158	90
ESWT-15115	ESW-10	1-1/2"	M80	115	135	70	159	90
ESWT-15120			M85	120	135	70	168	95
ESWT-15130			M90	130	155	93	189	95
ESWT-25055			M36	55	100	57	86	114
ESWT-25060			M39	60	100	52	119	119
ESWT-25065			M42	65	100	52	119	119
ESWT-25070			M45	70	120	67	128	128
ESWT-25075			M48	75	120	67	128	128
ESWT-25080			M52	80	130	71	128	128
ESWT-25085	ESW-20	2-1/2"	M56	85	130	71	129	129
ESWT-25090			M60	90	140	73	139	139
ESWT-25095			M64	95	140	73	139	139
ESWT-25100			M68	100	140	81	148	130
ESWT-25105			M72	105	150	89	149	130
ESWT-25110			M76	110	150	90	158	130
ESWT-25115			M80	115	150	98	168	130
ESWT-25120			M85	120	150	98	178	130
ESWT-25130			M90	130	170	98	188	130
ESWT-25135	ESW-35	2-1/2"	M95	135	170	114	198	130
ESWT-25145			M100	145	170	122	210	152
ESWT-25150			M105	150	190	140	216	152
ESWT-25155			M110	155	190	140	229	152
ESWT-25165			M115	165	190	140	241	152

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EHW-SERIES

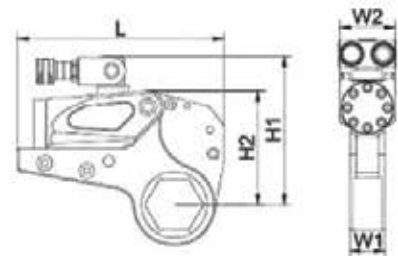


EHW-SERIES HYDRAULIC TORQUE WRENCH

► Features

- ◆ Accuracy within $\pm 3\%$
- ◆ 5 models ranging from 228-44613Nm
- ◆ 360° swivel
- ◆ Usable with space limitations
- ◆ Better accuracy working direct on the nut
- ◆ Compact design
- ◆ Interchangeable working heads
- ◆ Large variation of sizes to fit most bolt heads

MODEL	TORQUE RANGE N.m	BOLT ACROSS SIDE	POWER UNIT	CASSETTE	L	H1	H2	W1	W2
		S	Kg	Kg	mm	mm	mm	mm	mm
EHW-2	228~2278 243~2427	19~55	1	1.6	196.4	125.9	102.3	32	51
		60	1	1.7	196.4	128.5	105	32	51
EHW-4	586~5862 643~6437	34~65	2	4.4	245	177	135.7	42	66
		70~80	2	4.6	246	187	145.7	42	66
EHW-8	1103~11981 1181~11807	41~95	3.3	8	300	207	169	53	83
		100~105	3.3	8.4	301	216	178	53	83
EHW-14	1560~15653	50~117	5.5	11.6	361	239	204	64	99
		110~155	11.4	29	430	303	272	85	131
EHW-30	4186~41867 4462~44613	160~175	11.4	30	441	315	285	85	131



BOLTS DIA.	ACROSS SIDE	EHWL-2		
		CASSETTE	R mm	A mm
12	19	EHWL-2-19	27	16
14	22	EHWL-2-22	27	14
18	27	EHWL-2-27	27	11
20	30	EHWL-2-30	29	12
	32	EHWL-2-32	29	11
22	34	EHWL-2-34	31	11
24	36	EHWL-2-36	31	10
27	41	EHWL-2-41	34	10
30	46	EHWL-2-46	37	11
33	50	EHWL-2-50	40	11
36	55	EHWL-2-55	43	11
39	60	EHWL-2-60	46	11

BOLTS DIA.	ACROSS SIDE	EHWL-4		
		CASSETTE	R mm	A mm
22	34	EHWL-4-34	36	16
24	38	EHWL-4-36	36	15
27	41	EHWL-4-41	39	15
30	46	EHWL-4-46	42	15
33	50	EHWL-4-50	44	15
36	55	EHWL-4-55	46	15
39	60	EHWL-4-60	50	14
42	65	EHWL-4-65	53	15
45	70	EHWL-4-70	56	15
48	75	EHWL-4-75	59	15
52	80	EHWL-4-80	61	15



BOLTS DIA.	ACROSS SIDE	EHWL-8		
		CASSETTE	R mm	A mm
27	41	EHWL-8-41	46	22
30	46	EHWL-8-46	46	19
33	50	EHWL-8-50	46	17
36	55	EHWL-8-55	50	18
39	60	EHWL-8-60	52	17
42	65	EHWL-8-65	55	17
45	70	EHWL-8-70	58	17
48	75	EHWL-8-75	60	17
52	80	EHWL-8-80	63	16
56	85	EHWL-8-85	66	16
60	90	EHWL-8-90	69	17
64	95	EHWL-8-95	71	16
68	100	EHWL-8-100	75	17
72	105	EHWL-8-105	78	17

BOLTS DIA.	ACROSS SIDE	EHWL-14		
		CASSETTE	R mm	A mm
33	50	EHWL-14-50	60	31
36	55	EHWL-14-55	60	28
39	60	EHWL-14-60	60	25
42	65	EHWL-14-65	60	22
45	70	EHWL-14-70	60	19
48	75	EHWL-14-75	63	19
52	80	EHWL-14-80	66	19
56	85	EHWL-14-85	69	19
60	90	EHWL-14-90	72	20
64	95	EHWL-14-95	74	19
68	100	EHWL-14-100	77	19
72	105	EHWL-14-105	80	19
76	110	EHWL-14-110	83	19
80	115	EHWL-14-115	87	20
	117	EHWL-14-117	87	19

BOLTS DIA.	ACROSS SIDE	EHWL-30		
		CASSETTE	R mm	A mm
64	95	EHWL-30-95	83	28
68	100	EHWL-30-100	83	25
72	105	EHWL-30-115	89	28
76	110	EHWL-30-110	89	25
80	115	EHWL-30-115	95	28
	117	EHWL-30-117	95	27
85	120	EHWL-30-120	95	25
	125	EHWL-30-125	101	29
90	130	EHWL-30-130	101	26
95	135	EHWL-30-135	104	26
	140	EHWL-30-140	110	29
100	145	EHWL-30-145	110	26
105	150	EHWL-30-150	116	29
110	155	EHWL-30-155	116	26
	160	EHWL-30-160	128	36
115	165	EHWL-30-165	128	33
120	170	EHWL-30-170	128	30
	175	EHWL-30-175	128	27

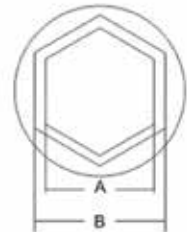
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Download Tech Sheet **10177** for EHW-Series PDF

EHW-SERIES



- ◆ High grade steel is heat treated for additional strength
- ◆ Custom built to each customers specific requirements



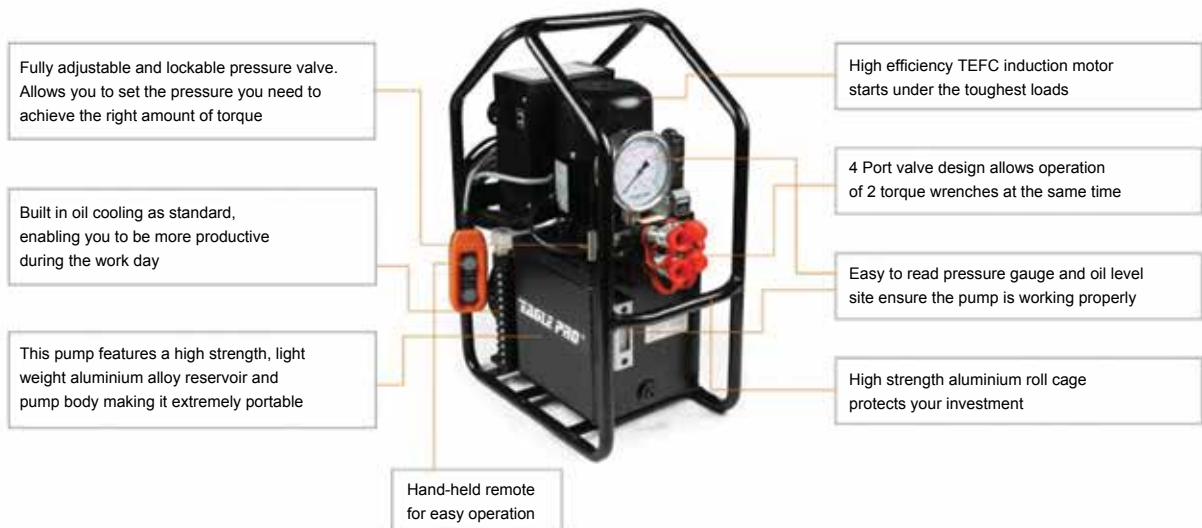
Wrench Model	Cassette Model	Screw Size	Cassette reducer Specification						Lock Ring Model
		mm	Model	A/B mm	Model	A/B mm	Model	A/B mm	
EHW-2	EHWL-2-50	50	C25041	41/50	C25036	36/50	C25032	32/50	H50
	EHWL-2-46	46	C24636	36/46	C24632	32/46	C24630	30/46	H46
	EHWL-2-41	41	C24132	32/41	C24130	30/41	C24127	27/41	H41
	EHWL-2-36	36	C23630	30/36	C23627	27/36			H36
	EHWL-2-32	32	C23227	27/32					H32
EHW-4	EHWL-4-65	65	C46555	55/65	C46550	50/65	C46546	46/65	H65
	EHWL-4-60	60	C46050	50/60	C46046	46/60	C46041	41/60	H60
	EHWL-4-55	55	C45546	46/55	C45541	41/55	C45536	36/55	H55
	EHWL-4-50	50	C45041	41/50	C45036	36/50	C45032	32/50	H50
	EHWL-4-46	46	C44636	36/46	C44632	32/46	C44630	30/46	H46
	EHWL-4-41	41	C44132	32/41	C44130	30/41	C44127	27/41	H41
	EHWL-4-36	36	C43630	30/36	C43627	27/36			H36
	EHWL-4-32	32	C43227	27/32					H32
EHW-8	EHWL-8-90	90	C89080	80/90	C89075	75/90	C89070	70/90	H90
	EHWL-8-85	85	C88575	75/85	C88570	70/85	C88565	65/85	H85
	EHWL-8-80	80	C88070	70/80	C88065	65/80	C88060	60/80	H80
	EHWL-8-75	75	C87565	65/75	C87560	60/75	C87555	55/75	H75
	EHWL-8-70	70	C87060	60/70	C87055	55/70	C87050	50/70	H70
	EHWL-8-65	65	C86555	55/65	C86550	50/65	C86545	45/65	H65
	EHWL-8-60	60	C86050	50/60	C86046	46/60			H60
	EHWL-8-55	55	C85546	46/55	C85541	41/55			H55
EHW-14	EHWL-14-115	115	C14115105	105/115	C14115100	100/115	C1411595	95/115	H115
	EHWL-14-110	110	C14110100	100/110	C1411095	95/110	C1411090	90/110	H110
	EHWL-14-105	105	C1410595	95/105	C1410590	90/105	C1410585	85/105	H105
	EHWL-14-100	100	C1410090	90/100	C1410085	85/100	C1410080	80/100	H100
	EHWL-14-95	95	C149585	85/95	C149580	80/95	C149575	75/95	H95
	EHWL-14-90	90	C149080	80/90	C149075	75/90	C149070	70/90	H90
	EHWL-14-85	85	C148575	75/85	C148570	70/85	C148565	65/85	H85
	EHWL-14-80	80	C148070	70/80	C148065	65/80			H80
	EHWL-14-75	75	C147565	65/75					H75
EHW-30	EHWL-30-155	155	C30155145	145/155	C30155130	130/155	C30155120	120/155	H155
	EHWL-30-145	145	C30145130	130/145	C30145120	120/145	C30145115	115/145	H145
	EHWL-30-130	130	C30130120	120/130	C30130115	115/130	C30130110	110/130	H130
	EHWL-30-120	120	C30120110	110/120	C30120105	105/120	C30120100	100/120	H120
	EHWL-30-115	115	C30115105	105/115	C30115100	100/115	C3011595	95/115	H115
	EHWL-30-110	110	C30110100	100/110	C30110095	95/110	C3011090	90/110	H110
	EHWL-30-105	105	C3010595	95/105	C3010590	90/105	C3010585	85/105	H105
	EHWL-30-100	100	C3010090	90/100	C3010085	85/100	C3010080	80/100	H100
	EHWL-30-95	95	C309585	85/95	C309580	80/95			H95
	EHWL-30-90	90	C309080	80/90					H90

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Download Tech Sheet **10177** for EPB-Series PDF

EPB-SERIES

- ◆ The Eagle Pro EPB series Electric torque wrench pumps are designed for use in the most demanding environments



Wrench Quantity	Model	Flow Rate	Oil Capacity	Size	Motor	Reservoir size	Weight (Without oil)
		L/min	L	mm		mm	kg
One or Two	EPB-10C7102	0.78/9	6	440*260*600	220V,50HZ,1KW	208*208*214	27.5

Accessories for torque wrench



Hydraulic Hose for torque wrench

Model	Length(m)
EH-15	4.5
EH-20	6.0
EH-40	12.0

Hose end with 2 pcs EAB-205 Quick Coupler



Quick Coupler

Model	Screw Model	Description
EAB-205A	1/4-18 NPT	Female
EAB-205B		Male
EAB-205		Male&Female

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Download Tech Sheet **10079** for EH-Series PDF

EH-SERIES

EH-SERIES High Pressure Hoses



EH **A****B****C****D**

EH Ordering Matrix and Specifications

A material code for material: 8=Rubber; 7=Thermo-Plastic

B Diameter of the hose: 1=1/8"; 2=1/4"; 3=3/8"

C**D** length of the hose(ft): "06"=6 ft

Model	Hose Material	Internal Dia.	Working Pressure	Burst Pressure	Thread	Length
EH-7103	Thermo Plastic	1/8"	20,000 psi	65,000 psi	1/4 BSP	3 ft
EH-7106	Thermo Plastic	1/8"	20,000 psi	65,000 psi	1/4 BSP	6 ft
EH-7110	Thermo Plastic	1/8"	20,000 psi	65,000 psi	1/4 BSP	10 ft
EH-7120	Thermo Plastic	1/8"	20,000 psi	65,000 psi	1/4 BSP	20 ft
EH-7203	Thermo Plastic	1/4"	10,000 psi	40,000 psi	3/8-NPT	3 ft
EH-7206	Thermo Plastic	1/4"	10,000 psi	40,000 psi	3/8-NPT	6 ft
EH-7210	Thermo Plastic	1/4"	10,000 psi	40,000 psi	3/8-NPT	10 ft
EH-7220	Thermo Plastic	1/4"	10,000 psi	40,000 psi	3/8-NPT	20 ft
EH-8203	Rubber	1/4"	10,000 psi	20,000 psi	3/8-NPT	3 ft
EH-8206	Rubber	1/4"	10,000 psi	20,000 psi	3/8-NPT	6 ft
EH-8206T	Rubber	1/4"	10,000 psi	20,000 psi	1/4-NPT	6 ft
EH-8210	Rubber	1/4"	10,000 psi	20,000 psi	3/8-NPT	10 ft
EH-8220	Rubber	1/4"	10,000 psi	20,000 psi	3/8-NPT	20 ft
EH-8303	Rubber	3/8"	10,000 psi	20,000 psi	3/8-NPT	3 ft
EH-8306	Rubber	3/8"	10,000 psi	20,000 psi	3/8-NPT	6 ft
EH-8310	Rubber	3/8"	10,000 psi	20,000 psi	3/8-NPT	10 ft
EH-8320	Rubber	3/8"	10,000 psi	20,000 psi	3/8-NPT	20 ft

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Download Tech Sheet **10080** for EAB-Series PDF
Download Tech Sheet **10081** for EAC-Series PDF

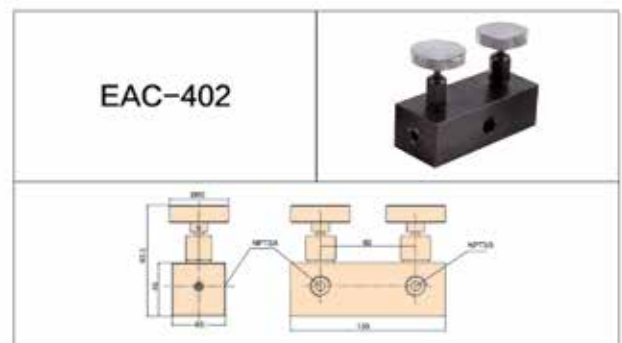
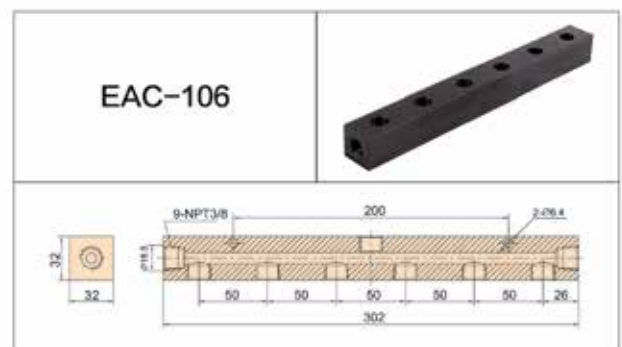
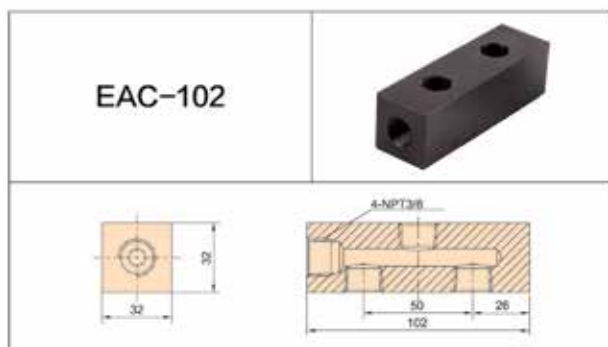
EAB/EAC-SERIES

EAB-SERIES Quick couplers

- ◆ High quality quick couplers.
- ◆ Female(male)coupler in P&P, thread types, with ball valve, pin valve available.

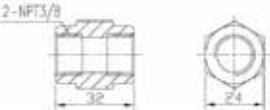
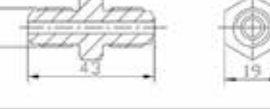
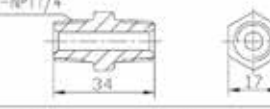
Model	Max Pressure (PSI)	Type	Threads	Female Couplers	Male Couplers	Note
EAB-201	10,000	High Flow		3/8-18NPT	EAB-201A EAB-201B	—
EAB-202	10,000	High Flow		1/4-18NPT	EAB-202A EAB-202B	—
EAB-203	10,000	High Flow		3/8-18NPT	EAB-203A EAB-203B	Used with ESL-50
EAB-204	20,000	Ultra High Flow		1/4BSP	EAB-204A EAB-204B	—

EAC-series Manifolds



EFC-SERIES

EFC-SERIES Fittings

	Model	Description	Dimensions (mm)
	EFC-11	Coupling From 3/8-18 NPT Female to 3/8-18 NPT Female	
	EFC-12	Hexagon Nipple From 3/8-18 NPT male, to 3/8-18 NPT male	
	EFC-13	Hexagon Nipple From 3/8-18 NPT male, to 3/8-18 NPT male	
	EFC-14	Hexagon Nipple From 1/4-BSP male to 1/4-BSP male	
	EFC-15	Hexagon Nipple From 1/4-18 NPT male to 1/4-18 NPT male	
	EFC-16	Hexagon Nipple From 1/4-18 NPT male to 3/8-18 NPT male	
	EFC-181	1/4-18NPT Female - 1/4-18NPT Female	
	EFC-21	Elbow From 1/4-18 NPT Male to 3/8-18 NPT Female	
	EFC-22	Elbow From 3/8-18 NPT Male to 3/8-18 NPT Female	
	EFC-23	Elbow From 1/4-18NPT Female to 3/8-18 NPT Female	
	EFC-31	Tee From 3/8-18 NPT Female to 3/8-18 NPT Female and 3/8 NPT Female	

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Download Tech Sheet **10083** for EG-Series PDF
Download Tech Sheet **10084** for EGA-Series PDF

EG/EGA-SERIES



Shown from left to right:
EG-2510, EG-4010, EG-4016, EG-4025

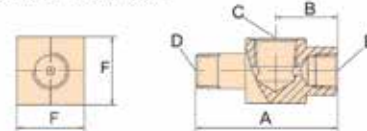
EG-SERIES High Pressure Gauges

- ◆ Calibrated with dual scale reading for MPa and PSI, Accuracy, $\pm 1\%$.
- ◆ Fast, easy to install.

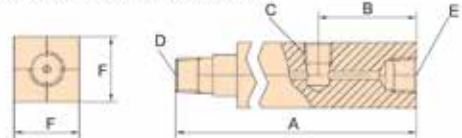
- ◆ Made of corrosion resistant stainless steel.
- ◆ Aseismic - not affected by motion.

Model	Pressure Range		Thread	Gauge Diameter
	bar	psi		in
EG-2510	0-700	0-10000	1/4"NPT	2.5
EG-4010	0-700	0-10000	1/2"NPT	4
EG-4016	0-1600	0-23000	M20X1.5	4
EG-4025	0-2500	0-35000	M20X1.5	4

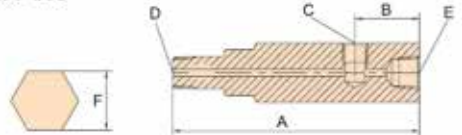
EGA-001/EGA-002



EGA-003/EGA-004/EGA-011



EGA-005



EGA-SERIES Gauge Adaptors

- ◆ To adapt above gauges to hydraulic system.

Model	Female Coupler Thread	Male Coupler Thread	Gauge thread	Sizes(mm)					
	NPTF	NPTF	NPTF	A	B	C	D	E	F
EGA-001	3/8"NPT	3/8"NPT	1/2"NPT	71	31	1/2"NPT	3/8"NPT	3/8"NPT	32
EGA-002	3/8"NPT	3/8"NPT	1/2"NPT	155	35	1/2"NPT	3/8"NPT	3/8"NPT	32
EGA-003	3/8"NPT	3/8"NPT	1/4"NPT	133	48	1/4"NPT	3/8"NPT	3/8"NPT	32
EGA-004	3/8"NPT	1/4"NPT	1/2"NPT	111	35	1/2"NPT	1/4"NPT	3/8"NPT	32
EGA-005	3/8"NPT	3/8"NPT	1/4"NPT	134	35	1/4"NPT	3/8"NPT	3/8"NPT	32
EGA-011	1/4"NPT	3/8"NPT	1/4"NPT	133	48	1/4"NPT	3/8"NPT	1/4"NPT	32

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Download Tech Sheet **10085** for EV-Series PDF

EV-SERIES



Shown from left to right:
EV-43M4, EV-11, EV-52H3, EV-23

EV-SERIES HYDRAULIC VALVES

EAGLE PRO hydraulic valves are available for most of your applications. EAGLE PRO hydraulic valves are available with a manual control, solenoid directional control and flow control valves. EAGLE PRO hydraulic valves are designed and manufactured for safe operation up to 10,000 PSI.



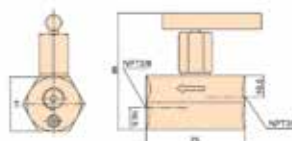
EV-11



Needle valve, manually control the speed of cylinder, can be used as shut-off valve for temporary load holding.



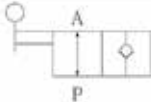
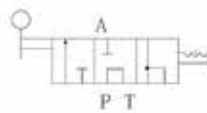
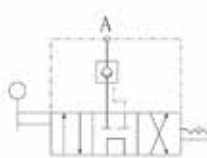
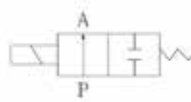
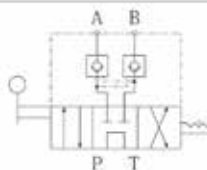
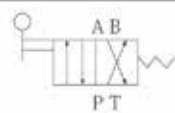
EV-23



Manually Operated Check Valve. used to hold load with single or double acting cylinder, manually opened to allow oil to flow back to oil reserve when cylinder retracts

EV-SERIES

DIRECTIONAL CONTROL VALVES

Used with cylinder	Valve Operation	Valve Location	Model	Valve Type	Valve Function	Hydraulic Symbol	Weight (lbs)
Single Acting	Manual	Pump Mounted	EV-42H2	2 Position	Advance Return		4.4
	Manual	Pump Mounted	EV-43M3	3 Position	Advance Hold/Return		2.86
	Manual	Remote Mounted	EV-43M3L	3 Position	Advance Hold/Return		4.84
	Manual	Pump Mounted	EV-43M3T	3 Position	Advance Hold/Return		8.36
	Manual	Remote Mounted	EV-43M3LT	3 Position	Advance Hold/Return		10.34
	Solenoid 24V	Pump Mounted	EV-52H2	2 Position	Advance Return		3.96
	Solenoid 24V	Pump Mounted	EV-52H3	2 Position	Advance Return		3.96
Double Acting	Manual	Pump Mounted	EV-43M4	3 Position	Advance Hold/Return		2.86
	Manual	Remote Mounted	EV-43M4L	3 Position	Advance Hold/Return		4.84
	Manual	Pump Mounted	EV-43M4T	3 Position	Advance Hold/Return		8.36
	Manual	Remote Mounted	EV-43M4LT	3 Position	Advance Hold/Return		10.34
	Solenoid 24V	Pump Mounted	EV-52H4	2 Position	Advance Return		3.96

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Download Tech Sheet **10086** for ENS-Series PDF

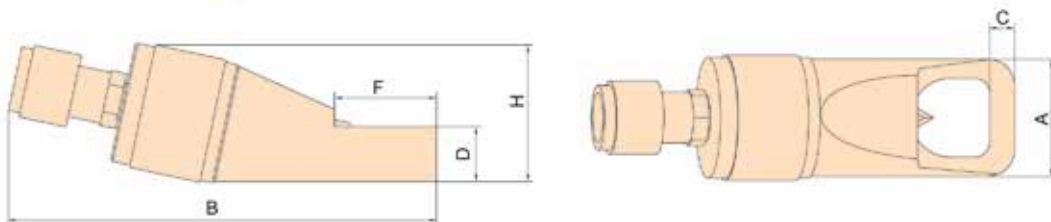
ENS-SERIES



ENS-SERIES HYDRAULIC NUT SPLITTERS

► Features

- ◆ Compact design for use in confined spaces.
- ◆ Unique angled head design.
- ◆ Single-acting, spring return cylinder.
- ◆ Nut Splitter Blade can be replaced.



Model	Bolt Range	Hex.nut range	Capacity	Oil Capacity	Dimensions						Weight
					A	B	C	D	F	H	
					in	in	in	in	in	in	
ENS-001	0.31-0.50	0.39-0.75	5	0.93	1.57	7.48	0.28	0.75	1.18	1.89	2.64
ENS-002	0.50-0.63	0.75-0.94	10	1.22	2.09	8.46	0.39	0.98	1.65	2.44	4.4
ENS-003	0.63-0.88	0.94-1.13	15	1.83	2.60	9.65	0.51	1.18	2.13	3.15	7.04
ENS-004	0.88-1.13	1.13-1.56	20	3.17	2.95	11.22	0.63	1.42	2.60	3.62	9.9
ENS-005	1.13-1.38	1.56-2.00	35	7.08	3.66	13.39	0.75	1.69	3.15	4.33	18.26
ENS-006	1.38-1.50	2.00-2.25	50	11.04	4.17	14.57	0.91	2.05	3.86	5.04	30.58
ENS-007	1.50-1.88	2.38-2.88	90	27.94	6.14	17.72	1.02	2.76	4.61	7.48	77

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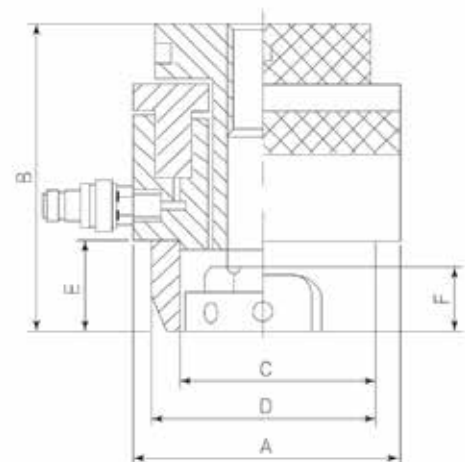
EB-SERIES



EB-SERIES HYDRAULIC TENSIONERS

Features

- ◆ Removable puller for different sized bolts.
- ◆ Economic, light weight, accurate.
- ◆ Can be used with hand pumps, or air hydraulic pumps.
- ◆ Max Pressure: 20,000 psi.
- ◆ Custom built to each customers specific requirements.



Model	Bolt Range		Load	Dimensions						Stroke
	Metric	Imperial		A in	B in	C in	D in	E in	F in	
EB-201	M20	3/4	155	2.80	3.60	1.97	2.44	0.79	0.79	0.39
	M22	3/4	155	2.80	3.60	1.97	2.44	0.87	0.87	0.39
	M24	1	486	4.29	4.61	2.36	2.95	0.94	0.94	0.39
EB-202	M27	1-1/8	486	4.29	4.61	2.36	2.95	1.06	1.06	0.39
	M30	1-1/8	486	4.29	4.72	2.40	3.15	1.18	1.18	0.39
	M33	1-1/4	486	4.29	4.84	2.91	3.46	1.30	1.30	0.39
EB-203	M36	1-3/8	486	4.29	4.96	3.03	3.78	1.42	1.42	0.39
	M39	1-1/2	814	5.20	5.24	3.31	3.78	1.54	1.54	0.39
	M42	1-5/8	814	5.20	5.35	3.35	4.25	1.65	1.65	0.39
EB-204	M45	1-3/4	989	5.91	5.55	4.02	4.49	1.77	1.77	0.39
	M48	1-7/8	989	5.91	5.67	4.02	4.65	1.89	1.89	0.39
EB-205	M52	2	1413	6.85	5.98	4.09	5.20	2.05	2.05	0.39
	M56	2-1/4	1413	6.85	6.22	4.17	5.43	2.20	2.20	0.39
	M56	2-1/4	1649	7.80	6.22	4.17	5.43	2.20	2.20	0.39
EB-206	M60	2-3/8	1649	7.80	6.22	4.17	5.43	2.36	2.36	0.39
	M64	2-1/2	1649	7.80	6.46	5.00	6.02	2.52	2.52	0.39
	M68	2-3/4	1649	7.80	6.69	5.28	6.46	2.68	2.68	0.39
EB-207	M72	2-1/2	2131	8.74	6.69	6.30	6.18	2.83	2.83	0.39
	M76	2-3/4	2131	8.74	6.97	6.69	7.09	2.99	2.99	0.39
	M76	2-3/4	2544	9.92	7.09	6.30	7.09	2.99	2.99	0.39
EB-208	M80	3-1/4	2544	9.92	7.09	6.30	7.09	3.15	3.15	0.39
	M85	3-3/8	2544	9.92	7.32	6.69	8.27	3.35	3.35	0.47
	M90	3-1/2	2544	9.92	7.56	8.07	8.86	3.54	3.54	0.47
EB-209	M95	3-3/4	3101	11.10	7.83	7.48	8.46	3.74	3.74	0.47
	M100	4	3101	11.10	8.50	8.11	9.06	3.94	3.94	0.47
	M105	4-1/8	3796	12.52	8.50	8.82	10.24	4.13	4.13	0.47
EB-210	M110	4-3/8	3796	12.52	8.50	8.82	10.24	4.33	4.33	0.47
	M115	4-1/2	3796	12.52	8.50	8.82	10.24	4.53	4.53	0.47

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Download Tech Sheet **10176** for EHS-Series PDF

EHS-SERIES

EHS-SERIES HYDRAULIC SPREADERS

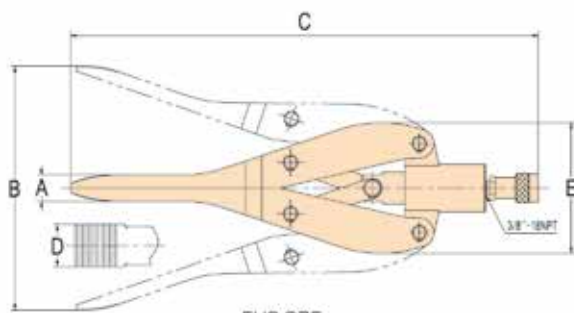
Features

- ◆ Single acting and spring return
- ◆ EHS-075 for long stroke spreading applications
- ◆ EHS-1 for use in very confined work areas

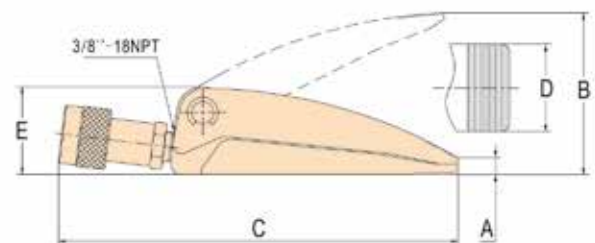


EHS-075

EHS-1



EHS-075



EHS-1

Model	Capacity	Oil Capacity	A	B	C	D	E	Weight (lbs)
	Ton	in ³	in	in	in	in	in	
EHS-1	1.0	0.79	0.39	3.70	9.05	2.00	2.00	5.5
EHS-075	0.75	3.36	1.26	11.50	22.00	2.00	6.18	27.5

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Download Tech Sheet **10087** for ETJ-Series PDF

ETJ-SERIES

ETJ-SERIES TOE JACKS

▶ Features

- ◆ Complies with ANSI/ASME B30.1, CE/GS standards.
- ◆ Designed for lifting loads with very low minimum clearance (foot) or high clearance (head).
- ◆ Can be used in confined spaces.
- ◆ Safety valve for overload protection.
- ◆ Features spring assisted return and over travel protection on 5 and 10 ton models.
- ◆ Electrically Forged base and cylinders to assure strength.



ETJ-105, ETJ-102

Model	Capacity(ton)		Min.Height(in)		Max.Height(in)		Toe Size(in)	Base size (in)	Weight (lbs)
	Toe	Head	Toe	Head	Toe	Head			
ETJ-102	2	3	0.63	9.37	5.06	13.74	1.97 × 1.97	5.00 × 7.01	17.6
ETJ-105	5	6	0.87	11.75	5.57	16.12	2.24 × 2.99	10.63 × 7.24	52.8
ETJ-110	10	14	1.12	13.13	6.81	18.13	2.36 × 4.02	11.26 × 9.53	83.6

▶ Features

- ◆ Complies with ANSI/ASME PALD standards and CE/GS.
- ◆ Compact and stable construction.
- ◆ Housing revolves 360 degrees.
- ◆ Lowering speed can be accurately adjusted.
- ◆ Protected against Overloading.
- ◆ Pump lever is removable.



ETJ-210, ETJ-205

Model	Capacity	Min.Height(in)		Max.Height(in)		Max Lever Force(kgf)	Weight (lbs)
	Ton	Toe	Head	Toe	Head		
ETJ-205	5	0.98	14.49	9.06	22.52	83.78	55.0
ETJ-210	10	1.18	16.54	10.24	25.59	88.19	55.0
ETJ-225	25	2.28	19.88	10.71	28.35	88.19	224.4

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Download Tech Sheet **10088** for EBJ-Series PDF

EBJ-SERIES



EBJ-SERIES BOTTLE JACKS

► Features

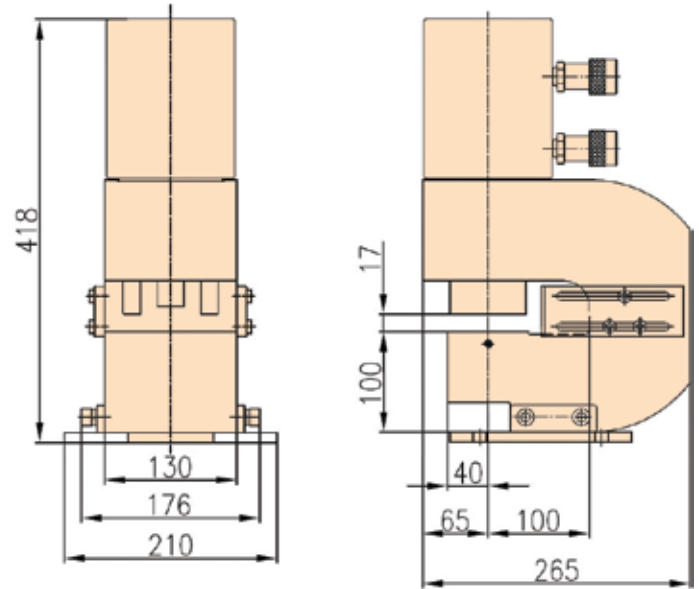
- ◆ Complies with ANSI/ASME PALD standards and CE/GS.
- ◆ Forged base and cylinder to ensure strength and eliminated leaks.
- ◆ Chromed pump piston and ram for added rust resistance.
- ◆ In-line design makes the jack more convenient to be positioned and operated.

Model	Capacity	Min.Height(in)	Max.Height(in)	Head screw	Weight
		in	in	in	lbs
EBJ-02	2	7.09	13.58	1.97	5.06
EBJ-03	3	7.52	14.33	2.36	6.16
EBJ-05	5	7.87	15.28	2.76	8.36
EBJ-08	8	7.87	15.43	2.76	12.54
EBJ-12L	12	6.97	13.39	2.99	14.52
EBJ-12	12	9.49	18.35	3.11	16.94
EBJ-20L	20	7.20	12.01	1.50	19.8
EBJ-20	20	10.67	16.89	–	26.4
EBJ-30	30	11.06	17.32	–	39.6
EBJ-50	50	9.29	14.02	–	66

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Download Tech Sheet **10546** for Hydraulic Punch PDF

Hydraulic Punch



HP-50S 50 TON HYDRAULIC PUNCH

Features

- ◆ Available as a complete set including electric pump and hoses.
- ◆ Double acting cylinder design for fast cycle times.
- ◆ Punch and die changeover tools included.
- ◆ Convenient operation to save time.

Sets Included

Model	Description	Package Size (mm)	G.W (KG)
HP-50	Hydraulic Punch	334*424*528	120
HPP	Punch & Die Sets		
EPB-175A	Electric Pump	632*302*566	36
EH-8206FF	1.8m Hose		
EAB-201A	Female Coupler		

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Download Tech Sheet **10546** for Hydraulic Punch PDF

Hydraulic Punch

Standard Punch and Die Selection Chart

Hole Size (mm)	Bolt Size (mm)	Model Standard Punch and Die Set	Maximum Allowable Material Thickness to be Punched (mm)**										
			1	2	3	4	5	6	7	8	9	10	11
13.5	M12	HPP-150	13.5	13.5	13.5	13.5	13.5	12.4	8.1	10.2	12.4	12.4	12.4
16.7	M16	HPP-170	-	-	-	-	-	13	8.1	10.2	13	13	13
19.8	M18	HPP-190	-	-	-	-	-	12.4	8.1	10.2	12.4	12.4	12.4
23.1	M20	HPP-121	14.2	14.2	14.2	12.7	14.2	8.9	5.6	8.9	8.9	8.9	8.9
26.2	M24	HPP-123	14.2	14.2	14.2	11.2	14.2	7.9	4.8	7.9	7.9	7.9	7.9

**Steel Qualities:

1	2	3	4	5	6	7	8	9	10	11
Mild A-7	Boiler Plate	Structural A-36	Struct Corten (ASTM A242)	Cold Rolled C-1018	Hot Rolled C-1050	Hot Rolled C-1095	Hot Rolled C-1095 Annealed	Stainless Annealed	Stainless 304 Hot Rolled	Stainless 316 Cold Rolled



Model:	EPB-175A
Used with cylinders:	Double Acting
Pressure Rate:	30bar / 700bar
Output Flow Rate:	275 / 17 (cu.in./min)
Usable Oil Capacity:	1.3 Gallon
Valve type:	4W, 3P
Valve Function:	Advance/Hold/Return
Control Switch:	Remote Motor Control (10ft)
Motor:	0.5HP, 230V, 50HZ
Weight:	26KG

ELECTRIC PUMP

Features

- ◆ Covers most applications in the industry.
- ◆ High flow rate reaches 17 in³/min.
- ◆ 10 Ft 24V remote control for operator safety.
- ◆ 0.5hp motor.
- ◆ Starts under full load.

EAGLE PRO[®]

LIFETIME WARRANTY

EAGLE PRO warrants all of its products to be free from defects in material and workmanship for the life of the product. This warranty applies to original purchaser and is not transferable. Damaged componets, including broken welds, dented or crushed cylinder walls, bent pistons, or couplers are the result of misuse, misapplication and are not covered under this warranty. Items such as seals, o-rings and springs wearing out shall not constitute a defect and shall not be considered for warranty credit.

We believe that the EAGLE PRO products you purchase will meet or exceed your performance requirements. However, in the unlikely event that an EAGLE PRO product fails due to material or workmanship defect you may contact your supplier to have it resolved.

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METRIC-IMPERIAL CONVERSION TABLE

UNIT	BY FACTOR	TO GET UNIT	BY FACTOR	TO GET UNIT
LENGTH				
millimeter(mm)	x0.03937	=inch	x25.4	=mm
(1 inch=25.4 mm)				
Centimeter(cm) 10mm	x0.3937	=inch	X2.54	=cm
meter(m)1000mm	x3.28	=foot	x0.305	=m
meter(m)	x1.09	=yard	x0.914	=m
kilometer(km) 1000m	x0.62	=mile	x1.61	=km
AREA				
millimeter ² (mm ²)	x0.00155	=inch ²	x645	=mm ²
centimeter ² (cm ²)	x0.155	=inch ²	x6.45	=cm ²
meter ² (m ²)	x10.8	=foot ²	x0.0929	=m ²
meter ² (m ²)	x1.2	=yard ²	x0.836	=m ²
hectare(ha)10,000m ²	x2.47	=acre	x0.405	=ha
kilometer ² (km ²)	x0.39	=mile ²	x2.59	=km ²
VOLUME				
centimeter ³ (cm ³)	x0.061	=inch ³	x16.4	=cm ³
liter(l)	x61	=inch ³	x0.018	=L
millimeter(ml)	x0.034	=fl oz	x29.6	=ml =1cm ³
liter(l)1000ml	x1.061	=quart	x0.946	=L
liter(l)	x0.26	=gallon	x3.79	=L
meter ³ (m ³)1000l	x1.3	=yard ³	x0.76	=m ³
FLOW				
liters/min.	x61.024	=cu.in/min.	x0.016	=liters/min.

UNIT	BY FACTOR	TO GET UNIT	BY FACTOR	TO GET UNIT
MASS				
gram(g)	x0.035	=ounce	x28.3	=g
kilogram(kg) 1000 g	x2.2	=pound	x0.454	=kg
tonne(t) 1000 kg	x1.1	=short ton	x0.907	=T
FORCE (N=kg*m/s²)				
newton (N)	x0.225	=pound	x4.45	=N
Kilonewton	x225	=pound	x0.00445	=KN
TORQUE				
newton meter (N · M)	x8.9	=lb.in.	x0.113	=N.m
newton meter (N · M)	x0.74	=lb.ft.	x1.36	=N.m
PRESSURE (Pa=N/m²)				
kilopascal (kPa)	x4.0	=in. H ₂ O	x0.249	=kPa
kilopascal (kPa)	x0.3	=in. Hg	x3.38	=kPa
kilopascal (kPa)	x0.145	=psi	x6.89	=kPa
megapascal (MPa)	x145	=psi	x0.00689	=MPa
Bar	x14.5	=psi	x0.0689	=Bar
POWER (w= J/s)				
watt (kw)	x0.74	=ft.lb/s	x1.36	=kw
kilowatt (kw)	x0.948	=Btu/s	x1.055	=kw
kilowatt (kw)	x1.34	=hp	x0.746	=w
TEMPERATURE				
"F="(C × 9/5)+32 "		"C"=(F-32) × 5/9 "		

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Phone: 0845 456 1222

Fax: 0800 298 7230

E-mail: sales@flowtechnologyuk.com

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