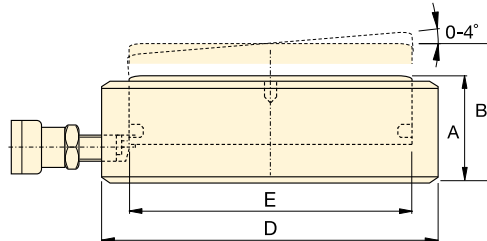


High-Tonnage, Ultra-Flat Cylinders

▼ CUSP-Series, Ultra-Flat High-Tonnage Cylinders, integrated tilting function



- Up to 4% side load of maximum capacity
- Extremely low collapsed height
- Integrated tilting function up to 4 degrees to evenly distribute the load
- Nitrocarburized surface treatment for harsh conditions
- “Red Line” for visual maximum stroke indication.



CUSP Series



Capacity:
10 - 1000 tons

Stroke Straight / Tilted Stroke:
0.24-0.39" / 0.26-0.69"

Integrated:
Tilting Function

Maximum Operating Pressure:
10,150 psi



IMPORTANT!
CUSP-Cylinders DO NOT have a Stop Ring for stroke limitation!



IMPORTANT!
All Ultra-Flat Cylinders require a solid lifting surface for correct support. The use of these flat cylinders on surfaces such as sand, mud or dirt, may result in cylinder damage.

See instructions on page 28 or more safety instructions in our Yellow Pages.

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Cylinder Capacity @ 10,150 psi tons (maximum)	Tilted Stroke (in)	Straight Stroke (in)	Model Number	Tilting +/- (degree)	Cylinder Effective Area (in ²)	Oil Capacity (in ³)	Collapsed Height A (in)	Extended Height B (in)	Cylinder Outside Diameter D (in)	Cylinder Bore Diameter E (in)	 (lbs)
10 (10.9)	0.24	0.26	CUSP10 ¹⁾	2	2.15	0.57	1.40	1.66	2.83	1.65	2.6
20 (22.2)	0.24	0.28	CUSP20 ¹⁾	2	4.39	1.21	1.59	1.87	3.54	2.36	4.2
30 (34.8)	0.24	0.29	CUSP30 ¹⁾	2	6.85	1.97	1.67	1.96	4.13	2.95	6.0
50 (61.8)	0.39	0.52	CUSP50 ¹⁾	4	12.17	6.37	2.24	2.77	5.12	3.94	12.3
75 (89.0)	0.39	0.55	CUSP75 ¹⁾	4	17.53	9.66	2.38	2.93	5.91	4.72	17.6
100 (121.1)	0.39	0.58	CUSP100 ²⁾	4	23.85	13.81	2.50	3.08	6.69	5.51	23.8
150 (178.6)	0.39	0.56	CUSP150 ²⁾	3	35.19	19.81	2.56	3.12	7.87	6.69	33.7
200 (235.0)	0.39	0.59	CUSP200 ²⁾	3	46.28	27.15	2.72	3.30	9.02	7.68	47.4
250 (285.6)	0.39	0.61	CUSP250 ²⁾	3	56.28	34.34	2.85	3.46	9.92	8.46	60.2
300 (355.9)	0.39	0.56	CUSP300 ²⁾	2	70.12	38.93	2.85	3.41	11.10	9.45	75.8
400 (450.5)	0.39	0.57	CUSP400 ²⁾	2	88.75	51.01	3.05	3.63	12.44	10.63	101.9
500 (574.8)	0.39	0.60	CUSP500 ²⁾	2	113.24	67.77	3.25	3.85	14.02	12.01	138.2
600 (672.9)	0.39	0.61	CUSP600 ²⁾	2	132.57	81.42	3.44	4.06	15.20	12.99	172.8
750 (846.0)	0.39	0.64	CUSP750 ²⁾	2	166.66	106.95	3.68	4.32	17.01	14.57	231.9
1000 (1142.6)	0.39	0.69	CUSP1000 ²⁾	2	225.09	154.20	4.06	4.74	19.76	16.93	346.1

¹⁾ Coupler AR630 including dust cap: Use HB7206 hose including AH630 coupler to connect to your pump.

²⁾ Coupler CR400 including dust cap: Use HC-Series hose including CH604 coupler to connect to your pump.