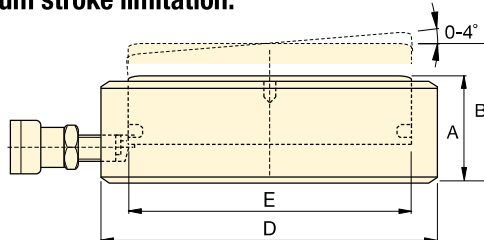


High Tonnage, Ultra-Flat Cylinders

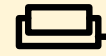
▼ CUSP-Series, Ultra-Flat High Tonnage Cylinders, integrated tilting function.



- 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 limitation.



CUSP Series



Capacity:

10 - 1000 ton

Stroke Straight / Tilted Stroke:

7 - 17 mm / 6 - 10 mm

Integrated:

Tilting Function

Maximum Operating Pressure:

700 bar



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 2 or more safety instructions in our Yellow Pages.

Cylinder Capacity @ 700 bar	Tilted Stroke	Straight Stroke	Model Number	Tilting +/-	Cylinder Effective Area	Oil Capacity	Collapsed Height	Extended Height	Cylinder Outside Diameter	Cylinder Bore Diameter	
ton (kN)	(mm)	(mm)		(degree)	(cm ²)	(cm ³)	A (mm)	B (mm)	D (mm)	E (mm)	(kg)
10 (97)	6	6,7	CUSP10 ¹⁾	2	13,9	9,3	35,5	41,5	72	42	1,2
20 (198)	6	7,0	CUSP20 ¹⁾	2	28,3	19,8	40,5	46,5	90	60	1,9
30 (310)	6	7,3	CUSP30 ¹⁾	2	44,2	32,1	42,5	48,5	105	75	2,7
50 (550)	10	13,3	CUSP50 ¹⁾	4	78,5	104	57,0	67,0	130	100	5,6
75 (792)	10	14,0	CUSP75 ¹⁾	4	113,1	158	60,5	70,5	150	120	8,0
100 (1078)	10	14,7	CUSP100 ²⁾	4	153,9	226	63,5	73,5	170	140	10,8
150 (1589)	10	14,3	CUSP150 ²⁾	3	227,0	324	65,0	75,0	200	170	15,3
200 (2090)	10	14,9	CUSP200 ²⁾	3	298,6	446	69,0	79,0	229	195	21,5
250 (2542)	10	15,5	CUSP250 ²⁾	3	363,1	569	72,5	82,5	252	215	27,3
300 (3167)	10	14,1	CUSP300 ²⁾	2	452,4	637	72,5	82,5	282	240	34,4
400 (4008)	10	14,6	CUSP400 ²⁾	2	572,6	837	77,5	87,5	316	270	46,2
500 (5115)	10	15,2	CUSP500 ²⁾	2	730,6	1111	82,5	92,5	356	305	62,7
600 (5987)	10	15,6	CUSP600 ²⁾	2	855,3	1334	87,5	97,5	386	330	78,4
750 (7527)	10	16,3	CUSP750 ²⁾	2	1075,2	1757	93,5	103,5	432	370	105,2
1000 (10.165)	10	17,4	CUSP1000 ²⁾	2	1452,2	2531	103,0	113,0	502	430	157,0

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

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