



### Advantages:

- ✓ Compact Design
- ✓ Cost-efficient
- ✓ Multifarious use
- ✓ Only one pressure line necessary



### Generally

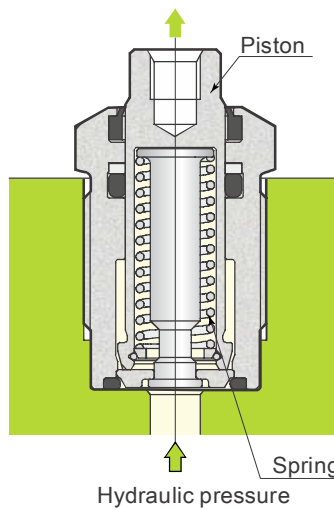
### Description:

These threaded body cylinders can be mounted into the counter-contour until the hexagon. In the arrangement in chip rows, closest distances are possible, since the hydraulic oil is supplied through drilled channels and only one port is necessary.

Sealing is done by the supplied sealing ring at the base of the mounting cavity. The plunger design prevents the penetration of liquids into the spring chamber.

On the rake face the round bottom design (convex) has a hardness of 54 HRC.

The cylinders work single-acting, with spring return. The cylinders are available in both types, with convex piston end and also as piston end with inner thread, for mounting a thrust piece.



### Recommendations for use:

To operate the threaded body cylinders we recommend standard hydraulic oils ISO-VG32/DIN 51524

The cylinders are particularly suitable for assembly in series jigs or even for actuating lever mechanisms.

Furthermore, the cylinder can be mounted in a self built housing .

The Threaded body cylinders are not sustainable in the unpressurized state.

In order to guarantee a reliable seal, the surface information on the next page must be respected.

### Technical Data

Type	CMC01			CMC03			CMC04				CMC06				CMC10				CMC20				CMC25			CMC40			CMC50			
Stroke (mm)	5	10	15	5	10	15	5	10	15	20	5	10	15	20	5	10	15	25	10	15	20	32	12	20	32	16	25	40	16	25	40	
Cylinder-force (kN)	Pressure 35 bar	0.16			0.4			0.5				0.8				1.3				2.6				3.1			5.1			7.5		
	Pressure 70 bar	0.34			0.8			1.0				1.7				2.6				5.4				6.6			10.6			15.8		
	Pressure 250 bar	1.24			2.8			3.8				6.3				9.7				19.9				24.4			39.3			58.6		
	Pressure 350 bar	1.74			3.9			5.3				8.8				13.7				27.9				34.3			55.2			82.4		
Piston-diameter (mm)	8			12			14				18				22.4				32				35.5			45			55			
Oil volume (cm³)	0.3	0.5	0.8	0.6	1.1	1.7	0.8	1.5	2.3	3.1	1.3	2.5	3.8	5.1	2.0	3.9	5.9	9.9	8.0	12.0	16.0	20.1	11.9	19.8	31.7	25.4	39.8	63.6	38.0	59.4	95.0	
Return spring force (N)	13-19			28-42			38-59				62-100				97-160				200-310				240-405			370-600			570-1010			
Weight (kg)	0.05	0.06	0.08	0.07	0.10	0.13	0.09	0.12	0.15	0.20	0.16	0.21	0.26	0.32	0.24	0.30	0.35	0.60	0.63	0.78	0.91	1.38	0.81	1.02	1.36	1.45	1.8	2.46	2.59	3.23	4.3	
Working pressure (bar)	10-350												10-350																			
Testing pressure (bar)	525												525																			
Working temperature (°C)	0-70												0-70																			

### Ordering designations

Version with threaded rod end = Standard

Version with convex rod end = „R“

Example: **CMC06-5RV** = Type CMC; size 06; stroke = 5 mm; with convex rod end and FKM-seals

Sealing version „NBR“ = Standard

Sealing version „FKM“ = „V“

Standard version = no details

### Contact

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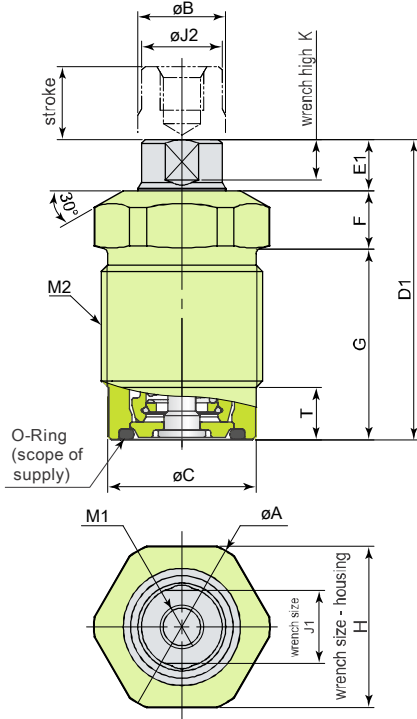
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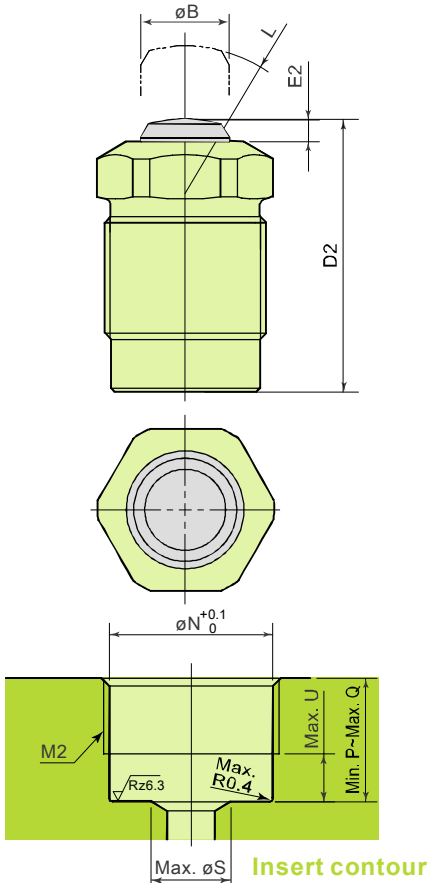
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### Special solutions on request!

### Version with threaded end



### Version with convex end



Type	CMC01			CMC03			CMC04				CMC06			
Stroke	5	10	15	5	10	15	5	10	15	20	5	10	15	20
A	15.5			24			26				33			
B	8			12			14				18			
C	14.3			20.3			23.3				28.3			
D1	31	41	50	31	41	51.5	36	47	58	68	40.5	51.5	62.5	72.5
D2	27	37	46	27	37	47.5	31	42	53	63	34	45	56	66
E1	5.5			7			8.5				10			
E2	1.5			3			3.5				3.5			
F	6			8			9				10.5			
G	19.5	29.5	38.5	16	26	36.5	18.5	29.5	40.5	50.5	20	31	42	52
H	14			22			24				30			
J1	7			10			12				14			
J2	7.5			11			13				17			
K	4.5			5.5			6.5				7.5			
L	16			20			25				32			
M1	M5×0.8 Tiefe 8			M6×1 Tiefe 6			M6×1 Tiefe 11				M8×1.25 Tiefe 13			
M2	M16×1.5			M22×1.5			M25×1.5				M30×1.5			
N	14.5			20.5			23.5				28.5			
P	12			13			14				15			
Q	19	29	38	15.5	25.5	36	18	29	40	50	19.5	30.5	41.5	51.5
S	5			8			10				14			
T	7			7			7				7			
U	6			6			6				6			
O-Ring	AS568-012(90)			AS568-015(90)			AS568-016(90)				AS568-019(90)			
Torque	10 N·m			30 N·m			40 N·m				60 N·m			

### Continuation

Type	CMC10				CMC20				CMC25			CMC40			CMC60		
Stroke	5	10	15	25	10	15	20	32	12	20	32	16	25	40	16	25	40
A	40				50				55			66			80		
B	22.4				32				35.5			45			55		
C	34.3				46				52.6			62.6			77.6		
D1	44.5	54.5	66.5	87.5	67.5	80.5	92	118.5	67	81.5	104.5	79	94	122	89	107	138
D2	36.5	46.5	58.5	79.5	57	70	81.5	108	56	70.5	93.5	65	80	108	76	94	125
E1	12				16				17.5			21.5			20		
E2	4				5.5				6.5			7.5			7		
F	12.5				14				15			17			15		
G	20	30	42	63	37.5	50.5	62	88.5	34.5	49	72	40.5	55.5	83.5	54	72	101
H	36				46				50			60			75		
J1	19				27				30			36			41		
J2	21.4				30				32.5			43			52		
K	9.5				12.5				13.5			15.5			17		
L	40				50				60			70			80		
M1	M8×1.25 Tiefe 13				M12×1.75 Tiefe 18				M12×1.75 Tiefe 18			M16×2.0 Tiefe 18			M20×2.5 Tiefe 22		
M2	M36×1.5				M48×1.5				M55×2.0			M65×2.0			M80×2.0		
N	34.5				46.5				53			63			78		
P	17				20				24			27			29		
Q	19.5	29.5	41.5	62.5	37	50	61.5	88	33.5	48	71	40	55	83	53.5	71.5	100.5
S	19				26				34			44			56		
T	7				7				10			10			10		
U	6				6				9			9			9		
O-Ring	AS568-022(90)				AS568-126(90)				AS568-129(90)			AS568-135(90)			AS568-143(90)		
Torque	110 N·m				270 N·m				360 N·m			620 N·m			1.160 N·m		

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