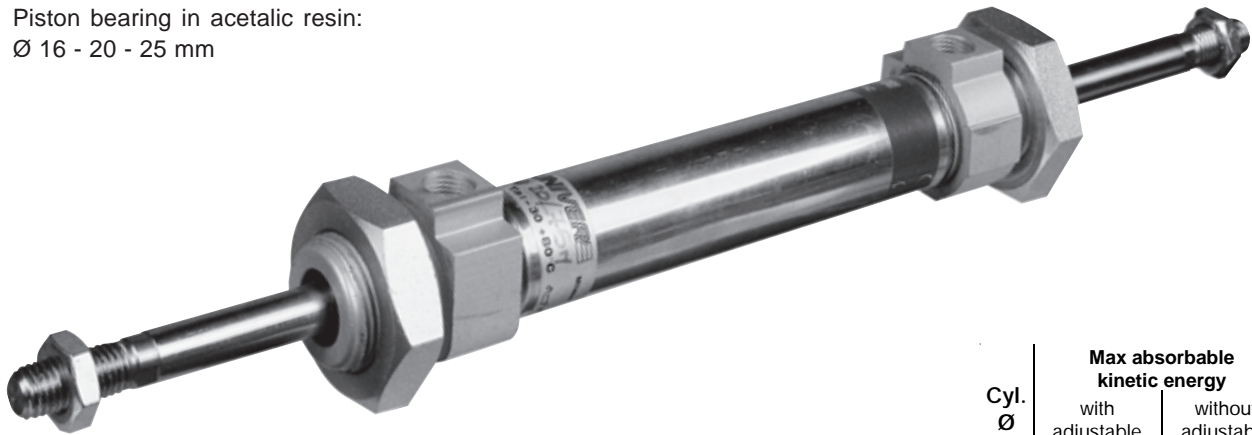


Some construction features

- Stainless steel barrel
- Anodized aluminium extrusion heads, crimped on the barrel
- Ø 12 ÷ 25 mm fixed mechanical rubber shock absorbers on heads (M100 ... Series)
- Ø 16 - 20 - 25 mm pneumatic adjustable cushion with brass adjustment screw (M150 ... Series)
- Seals in self-lubricating nitrile
- Piston bearing in acetalic resin: Ø 16 - 20 - 25 mm

- X10CrNi S 18.09 (AISI 303) stainless steel rolled rod
- Ø 20 ÷ 25 mm aluminium piston
Ø 8 ÷ 16 mm brass piston
- Microcylinders are supplied complete with a nut on the rod (**MF - 16 + Ø**) and a nut on the front head (**MF - 20 + Ø**)



Cyl. Ø	Max absorbable kinetic energy	
	with adjustable cushions	without adjustable cushions
16	0,9 J	0,12 J
20	1,3 J	0,16 J
25	1,8 J	0,22 J

Single-acting microcylinder

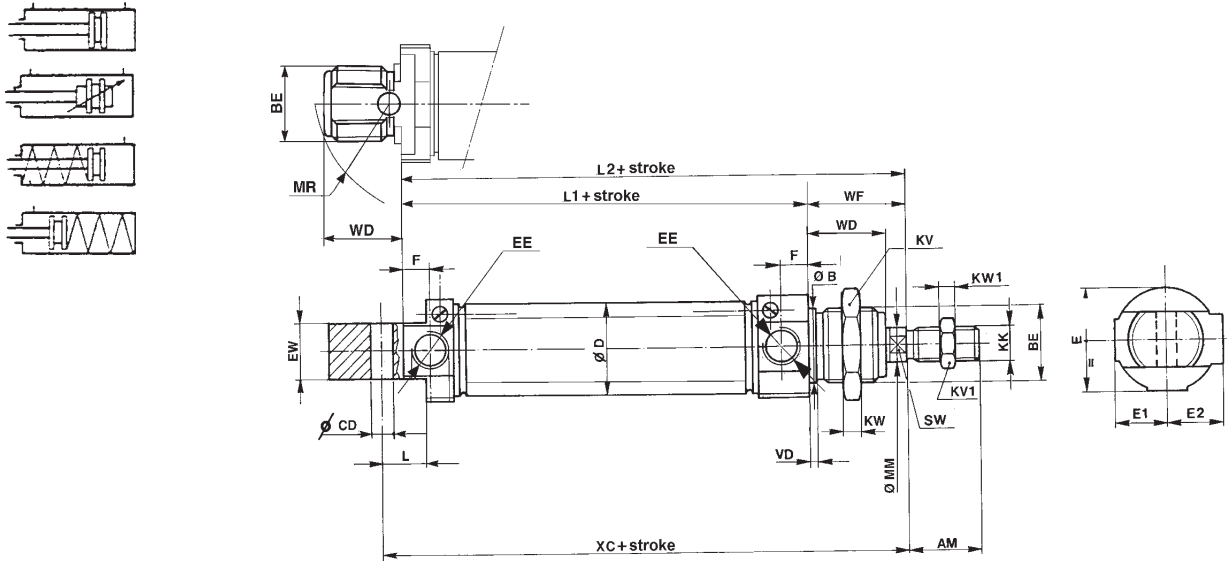
Cyl. Ø	Standard stroke (preferable values according to UNI 4393 in black)		Traction force (min-max) of the spring in N								Mobile parts mass (g)		Mass (g)	
	160	170	Stroke 10		Stroke 25		Stroke 40		Stroke 50		Stroke 0	Increase by mm	Stroke 0	Increase by mm
10	10 - 25 40 - 50		6,9	7,6	5,8	7,6	4,7	7,6	4	7,6	8,6	1	55	0,27
12	10 - 25 40 - 50		8,1	8,7	7,3	8,7	6,5	8,7	5,9	8,7	23,05	2,2	102	0,4
16	10 - 25 40 - 50	10 - 25	14,4	16	11,9	16	9,4	16	7,8	16	23,4	2,2	73	0,55
20	10 - 25 40 - 50	10 - 25	18,6	20	16,5	20	14,4	20	13	20	44,94	4,1	151,5	0,85
25	10 - 25 40 - 50	10 - 25	21,8	23,5	19,3	23,5	16,7	23,5	15	23,5	79,55	6,1	208,4	1,15

Double-acting microcylinder

Cyl. Ø	Standard strokes (preferable values according to UNI 4393 in black)	Thrust force (min) at 6 bar N	Traction force at 6 bar N	Mobile parts mass (g)		Mass (g)		Length of deceleration mm
				Stroke 0	Increase by mm	Stroke 0	Increase by mm	
8	10 20 25 30 40 50 75 100	20	16	7	0,1	53	0,24	-
10	10 20 25 30 40 50 75 100 125 150 160	35	32	8,6	0,1	55	0,27	-
12	10 20 25 30 40 50 75 100 125 150 160	50	38	23,05	0,22	102	0,4	-
16	10 20 25 30 40 50 75 100 125 150 160 175 200 250	90	87	23,4	0,22	73	0,55	16
116	25 30 40 50 75 100 125 150 160 175 200 250 300 400 500			124,9				
20	10 20 25 30 40 50 75 100 125 150 160 175 200 250 300	148	140	44,94	0,41	151,5	0,85	18
120	25 30 40 50 75 100 125 150 160 175 200 250 300 400 500			147,8				
25	10 20 25 30 40 50 75 100 125 150 160 175 200 250 300 400 500	250	220	79,55	0,61	208,4	1,15	22
125	25 30 40 50 75 100 125 150 160 175 200 250 300 400 500			187,23				

¹ Version with adjustable pneumatic cushions

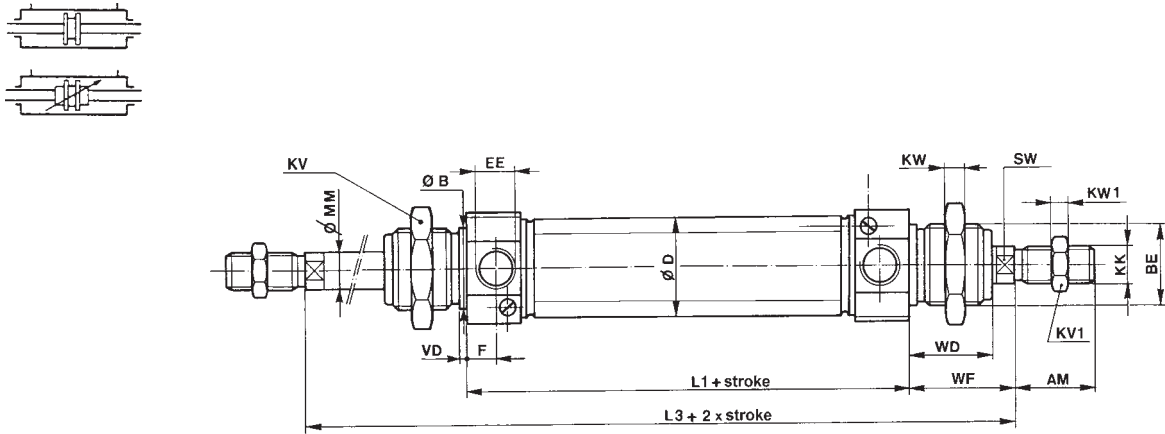
Double/single acting cylinders



Double acting through rod cylinders



6432



Cyl. Ø	AM	B	BE	CD	D	E	E1	E2	* EE	EW	KV	KV1
		h 10		H9		max				d 13		
8	12	Ø 12	M12 X 1.25	4	9.3	14	8	8.5	M5 x 0.8	8	19	7
10	12	Ø 12	M12 X 1.25	4	11.3	14	8	8.5	M5 x 0.8	8	19	7
12	16	Ø 16	M16 X 1.5	6	13.3	17	9.5	10	M5 x 0.8	12	24	10
16	16	Ø 16	M16 X 1.5	6	17.3	20.8	10.4	9.6	M5 x 0.8	12	24	10
20	20	Ø 22	M22 X 1.5	8	21.6	27.7	13.85	12	G 1/8	16	32	13
25	22	Ø 22	M22 X 1.5	8	26.6	30.7	15.35	13.75	G 1/8	16	32	17

Cyl. Ø	F	KK	KW	KW1	L	L1	L2	L3	MM	MR	SW	VD	WD	WF	XC
														± 1,2	± 1
8	5	M4 X 0,7	7	2,8	7	46	62	78	4	12	3	1,5	12	16	64
10	5	M4 X 0,7	7	2,8	7	46	62	78	4	12	3	1,5	12	16	64
12	5	M6 X 1	8	4	9	50	72	94	6	16	5	1,5	17	22	75
16	5,5	M6 X 1	8	4	8	56	78	100	6	16	5	1,5	17	22	82
20	8	M8 X 1,25	10	5	11	68	92	116	8	18	7	2	19	24	95
25	8	M10 X 1,25	10	6	15	69	97	125	10	18	9	2	22	28	104

* The series with dimensions in inches is chosen in compliance with UNI-ISO 228/1 standard

Technical modifications keep in reserve !

(2002/01)