

DOUBLE ACTING PNEUMATIC CYLINDERS ISO 21287 COMPACT



STRÁNSKÝ A PETRŽÍK



Compact cylinders are smaller than standard cylinders and they are suitable especially, when there isn't enough space for standard cylinder. Dimensions of mounting holes meets international standards ISO 6431, VDMA 24562 and NF E 49003.1, that is why standard mounting accessories can be used. There are bumpers in both end positions or fully adjustable cushioning at end of stroke.

Working pressure	0,6 MPa
Min. pressure	0,15 MPa
Max. pressure	1,0 MPa
Temp. range	-20°C to +80°C *
Working medium	modified compressed air

*) values are valid for standard gaskets

Piston diameter [mm]	25	32	40	50	63	80	100
Thrust at 0,6 MPa [N]	295	482	754	1178	1870	3015	4713
Thrust at 0,6 MPa [N] with double ended piston rod	248	415	662	1025	1717	2720	4484
Return force at 0,6 MPa [N]	248	415	662	1025	1717	2720	4484
Connection	M5	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"
Length of adjustable cushioning [mm]	7	10	10	10	10	12	12
Max. stroke [mm] *	100*	150*	150*	200*	200*	200*	200*
Weight 0 mm stroke [kg]	0,21	0,24	0,34	0,50	0,72	1,20	1,89
Weight add. per 1 mm stroke [kg]	0,0027	0,0020	0,0034	0,0047	0,0055	0,0076	0,0095
Weight 0 mm stroke [kg] with double ended piston rod	0,23	0,28	0,36	0,55	0,76	1,30	2,07
Weight add. per 1 mm stroke [kg] with dbl. ended piston rod	0,0033	0,0040	0,0044	0,0065	0,0067	0,0103	0,0131

*) Stroke of cylinder may be longer after agreement with our technical dept.

Order codes

12101 10 00 050 0100

Type	Equipment	Equipment	Options	Piston diameter
12101 ISO 21287 compact, double acting	00 w/o cushioning, w/o magnet, external thread	50 with cushioning, w/o magnet, external thread	00 without options	025 25 mm
	01 w/o cushioning, w/o magnet, internal thread	51 with cushioning, w/o magnet, internal thread	10 Viton® piston rod sealing	032 32 mm
	05 w/o cushioning, with double ended piston rod, w/o magnet, external thread	60 with cushioning, with magnet, external thread	14 1.4301 stainless steel piston rod	040 40 mm
	06 w/o cushioning, with double ended piston rod, w/o magnet, internal thread	61 with cushioning, with magnet, internal thread	16 steel parts from stainless 1.4301 piston rod stainless 1.4401	050 50 mm
	10 w/o cushioning, with magnet, external thread			063 63 mm
	11 w/o cushioning, with magnet, internal thread			080 80 mm
	15 w/o cushioning, with double ended piston rod, with magnet, external thread			100 100 mm
	16 w/o cushioning, with double ended piston rod, with magnet, internal thread			

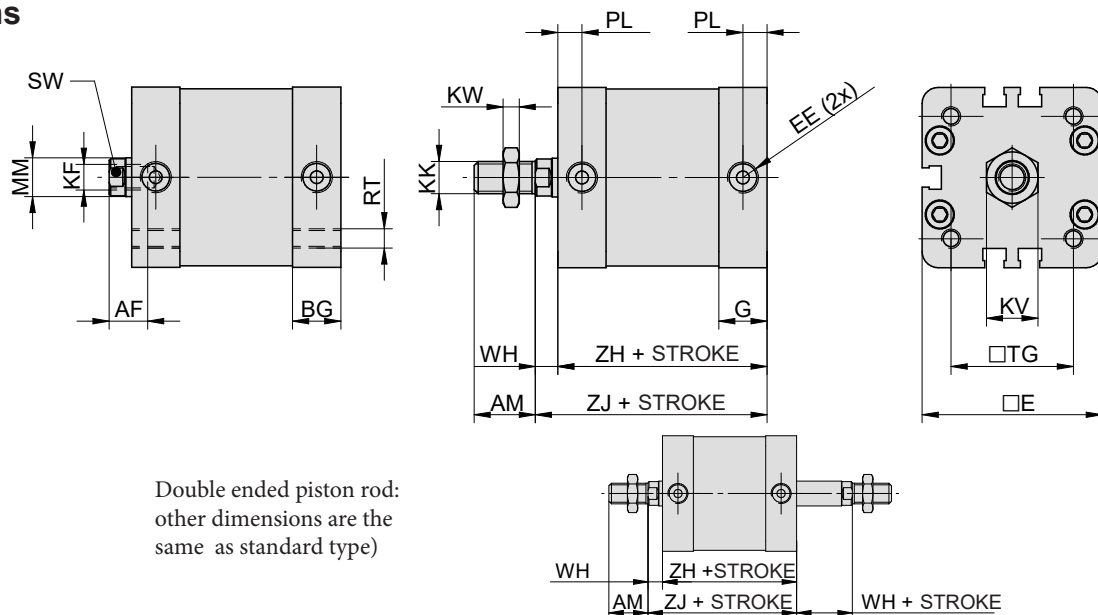
For more options regarding materials or dimensions, please contact our technical dept.

Stroke / Repair kit	
xxxx	mm of stroke e.g.: 0100 = stroke 100 mm
9999	repair kit

Construction / materials

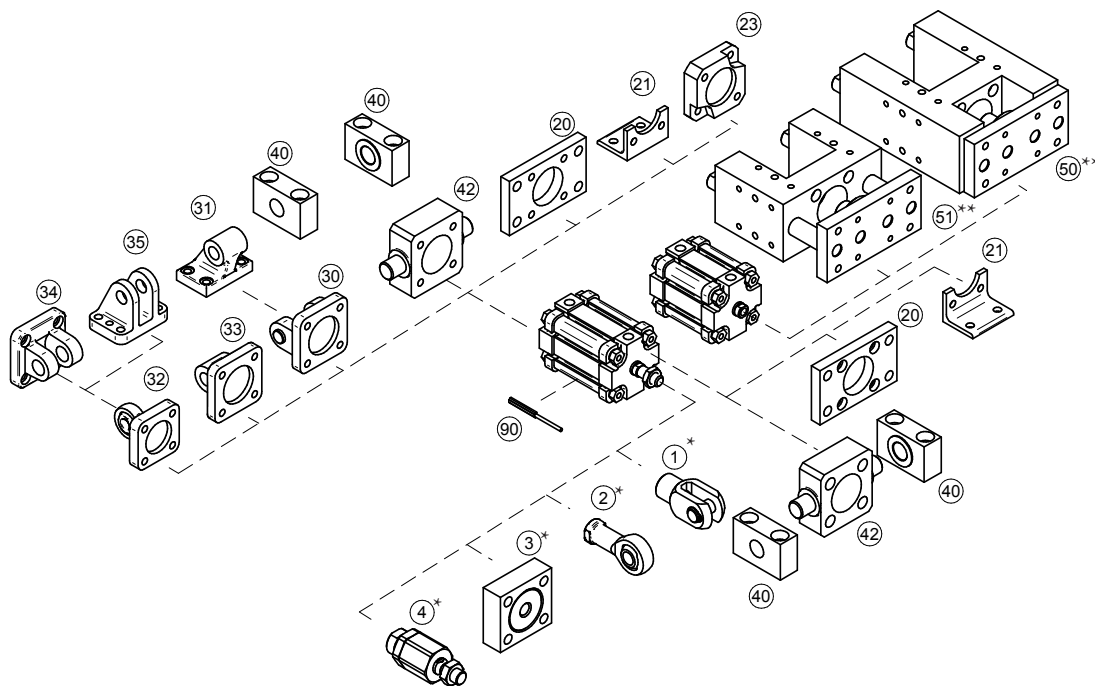
- caps: drawn dural profile, anodized
- body: drawn dural profile, anodized
- piston rod: grounded round steel bar CK45 with hard chrome plated surface

Dimensions



Ø	AF	AM	BG	E	EE	G	KF	KK	KV	KW	MM	PL	RT	SW	TG	WH	ZH	ZJ
25	10	16	15	41	M5	12	M6	M8	13	4	10	6	M5	8	26	6	39	45
32	12	19	14.5	49.2	G1/8"	14.5	M8	M10x1.25	16	5	12	7.5	M6	10	32.5	7	44	51
40	12	19	15	56	G1/8"	15	M8	M10x1.25	16	5	12	7.5	M6	10	38	7	45	52
50	16	22	15	69	G1/8"	15	M10	M12x1.25	18	6	16	7.5	M8	13	46.5	8	45	53
63	16	22	15	79	G1/8"	15	M10	M12x1.25	18	6	16	7.5	M8	13	56.5	8	49	57
80	20	28	17	95	G1/8"	17	M12	M16x1.5	24	8	20	7.5	M10	16	72	10	54	64
100	20	28	20	115.5	G1/8"	20	M12	M16x1.5	24	8	20	7.5	M10	16	89	10	67	77

Mounting accessories



Mounting accessories	... see page
1 Piston rod clevis*	... 4-2
2 Piston rod eye*	... 4-3
3 Flanged piston rod coupling*	... 4-2
4 Self-aligning piston rod coupling*	... 4-3
20 Flange mounting	... 4-5
21 Foot mounting	... 4-5
23 Boxer flange mounting	... 4-6
30 Swivel flange	... 4-7
31 Clevis foot mounting	... 4-7
32 Swivel flange with spherical bearing	... 4-8
33 Swivel flange	... 4-8
34 Narrow swivel flange	... 4-9
35 Rectangular swivel flange	... 4-9
40 Trunnion mounting	... 4-10
42 Pivot pin to front/end cap	... 4-12
50 Guide unit H with ball bearings	... 4-13
51 Guide unit with slide bearings	... 4-15
90 Prox. switch	... 3-2, 3-4
90 Proportional position sensor with analog output	... 3-6

*) Please check dimensions of thread on cylinder and accessories for piston rod, before you order it (for example: compact cylinder piston dia. 40 mm has thread M10x1,25 on piston rod, piston rod clevis for cylinder dia. 40 has thread M12x1,25, so it is necessary to order piston rod clevis for cylinder dia. 25/32, where is thread M10x1,25).

**) For use this cylinder type with guide unit, the cylinder must be equipped with internal thread on piston rod.