

SINGLE 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 21287, ISO 6431, VDMA 24562 and NF E 49003.1, that is why standard mounting accessories can be used. Cylinders aren't equipped with cushioning.

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

Piston diameter [mm]	25	32	40	50	63	80	100
Thrust at 0.6 MPa [N]*	275	482	754	1178	1870	3015	4713
Return force at 0.6 MPa [N]*	228	415	662	1025	1717	2720	4487
Spring restoring force [N]	10	17	24	22	42	33	120
Connection	M5	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"	G1/8"
Max. stroke [mm]	15	25	25	40	50	50	50
Weight 0 mm stroke [kg]	0,21	0.25	0.34	0.51	0.75	1.23	1.99
Weight add. per 1 mm stroke [kg]	0,0027	0.0030	0.0034	0.0047	0.0055	0.0076	0.0095

*) Cylinder will make out either thrust or return force, accordingly to the type (spring return / extend).

Order codes

12105 10 00 050 0010

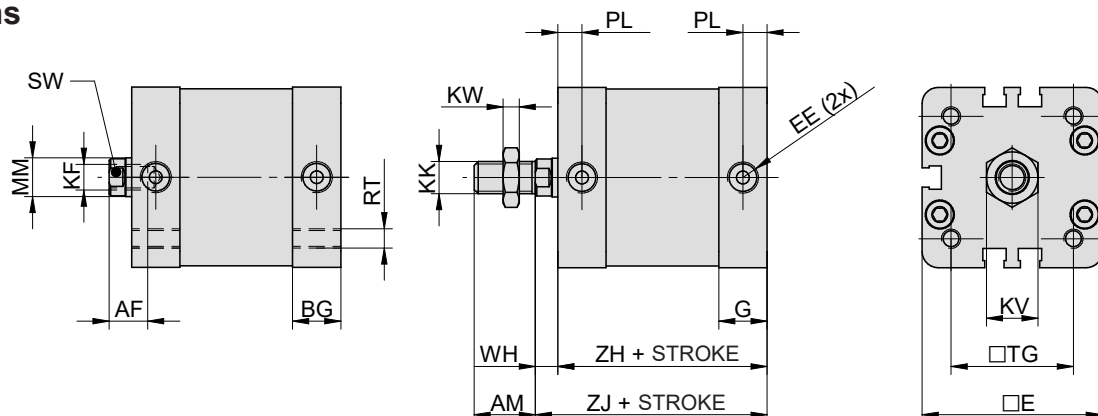
Type	Equipment	Options	Piston diameter	Stroke / Repair kit
12105 compact single acting, spring return	00 w/o magnet, external thread	00 without options	032 32 mm	xxxx mm of stroke e.g.: 0010 = stroke 10 mm
12106 compact single acting, spring extend	01 w/o magnet, internal thread	14 1.4301 stainless steel piston rod	040 40 mm	9999 repair kit
	10 with magnet, external thread	16 steel parts from stainless 1.4301 piston rod stainless 1.4401	050 50 mm	
	11 with magnet, internal thread		063 63 mm	
			080 80 mm	
			100 100 mm	

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

Construction / materials

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

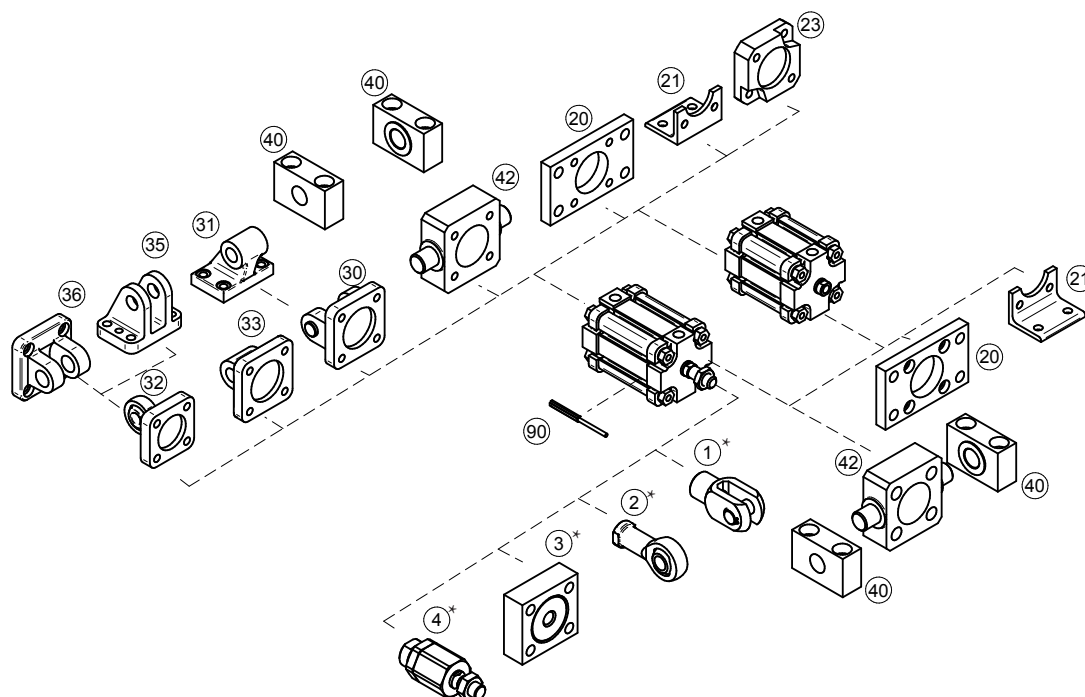
Dimensions



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	52*	59*
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

*) Dimensions ZH and ZJ of dia. 32 mm do not follow ISO 21287 standard.

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
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).