DOUBLE ACTING PNEUMATIC CYLINDERS ISO 21287 COMPACT

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.

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]	32	40	50	63	80	100
Thrust at 0,6 MPa [N]	482	754	1178	1870	3015	4713
Thrust at 0,6 MPa [N] with double ended piston rod	415	662	1025	1717	2720	4484
Return force at 0,6 MPa [N]	415	662	1025	1717	2720	4484
Connection	G1/8“	G1/8“	G1/8“	G1/8“	G1/8“	G1/8“
Max. stroke [mm] *	150*	150*	200*	200*	200*	200*
Weight 0 mm stroke [kg]	0.24	0.34	0.50	0.72	1.20	1.89
Weight add. per 1 mm stroke [kg]	0.0020	0.0034	0.0047	0.0055	0.0076	0.0095
Weight 0 mm stroke [kg] with double ended piston rod	0.28	0.36	0.55	0.76	1.30	2.07
Weight add. per 1 mm stroke [kg] with dbl. ended piston rod	0.0040	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	
12101	ISO 21287 compact, double acting

Equipment	
00	w/o magnet, external thread
01	w/o magnet, internal thread
05	with double ended piston rod, w/o magnet, external thread
06	with double ended piston rod, w/o magnet,internal thread
10	with magnet, external thread
11	with magnet, internal thread
15	with double ended piston rod, with magnet, external thread
16	with double ended piston rod, with magnet, internal thread

Options	
00	without options
10	Viton® piston rod sealing
14	1.4301 stainless steel piston rod
16	steel parts from stainless 1.4301 piston rod stainless 1.4401

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

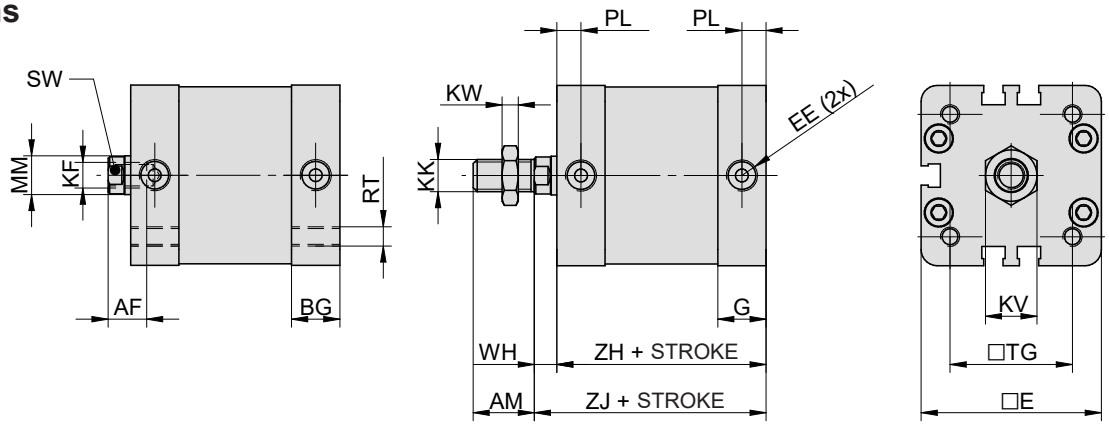
Piston diameter	
032	32 mm
040	40 mm
050	50 mm
063	63 mm
080	80 mm
100	100 mm

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

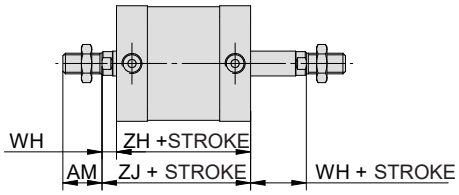
Construction / materials

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

Dimensions

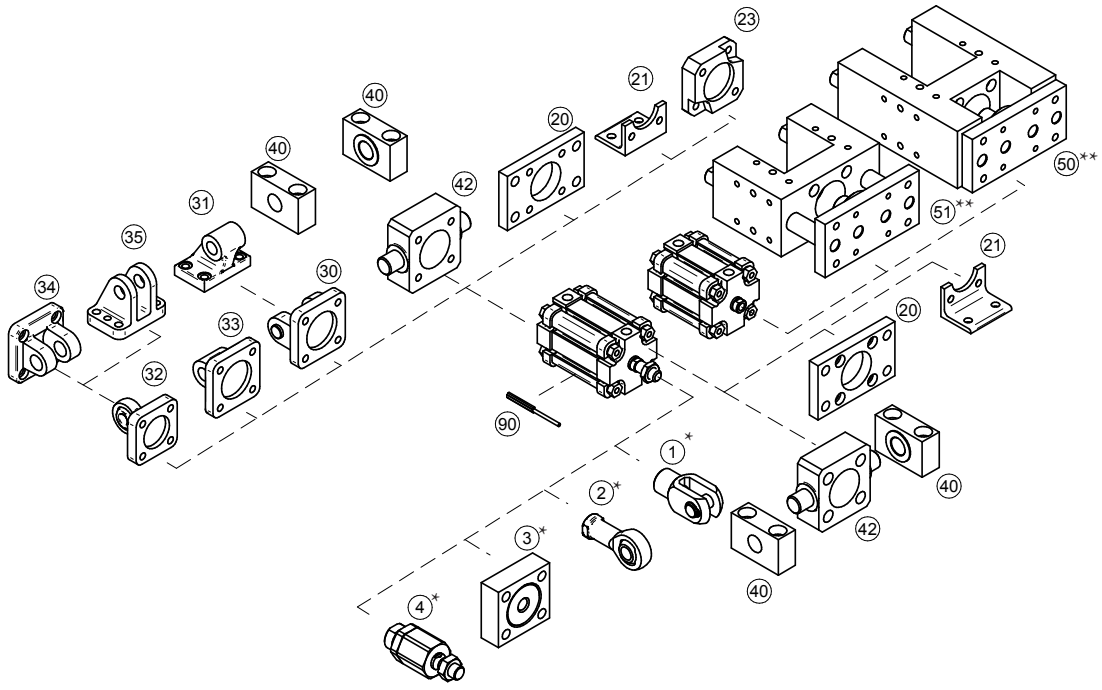


Double ended piston rod: other dimensions are the same as standard type)



∅	AF	AM	BG	E	EE	G	KF	KK	KV	KW	MM	PL	RT	SW	TG	WH	ZH	ZJ
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	... 4-6
21 Foot mounting	... 4-4
23 Boxer flange mounting	... 4-22
30 Swivel flange	... 4-8
31 Clevis foot mounting	... 4-8
32 Swivel flange with spherical bearing	... 4-10
33 Swivel flange	... 4-7
34 Narrow swivel flange	... 4-9
35 Rectangular swivel flange	... 4-9
40 Trunnion mounting	... 4-12
42 Pivot pin to front/end cap	... 4-12
50 Guide unit H with ball bearings	... 4-18
51 Guide unit with slide bearings	... 4-20
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.