DOUBLE ACTING PNEUMATIC CYLINDERS SHORT STROKE

Pneumatic cylinder may be used, when small mounting dimensions are required. The cylinders can work in higher temperatures by request. There is no cushioning at the 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]	20	25	32	40	50	63	80	100	160	250
Thrust at 0,6 MPa [N]	188	295	482	754	1178	1870	3015	4713	12064	29460
Thrust at 0,6 MPa [N] with double ended piston rod	158	248	415	662	1025	1717	2720	4484	11309	27600
Return force at 0,6 MPa [N]	158	248	415	662	1025	1717	2720	4484	11309	27600
Connection	M5	G1/8“	G1/8“	G1/8“	G1/8“	G1/8“	G1/4“	G1/4“	G3/8“	G1/2“
Max. stroke [mm] *	50*	50*	50*	50*	50*	50*	50*	50*	60*	40*
Weight 0 mm stroke [kg]	0,05	0,08	0,16	0,29	0,43	0,60	1,10	1,80	8,20	30,00
Weight add. per 1 mm stroke [kg]	0,0014	0,0015	0,0040	0,0060	0,0080	0,0100	0,0160	0,0200	0,0600	0,0830
Weight 0 mm stroke [kg] with double ended piston rod	0,06	0,09	0,17	0,32	0,50	0,70	1,20	2,00	8,90	33,00
Weight add. per 1 mm stroke [kg] with double ended piston rod	0,0022	0,0036	0,0050	0,0070	0,0100	0,0120	0,0190	0,0250	0,0700	0,0980

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

Order codes

12501 10 00 050 0010

Type	
12501	short stroke, 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
11	Viton® gaskets (up to 180°C)
14	1.4301 stainless steel piston rod

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

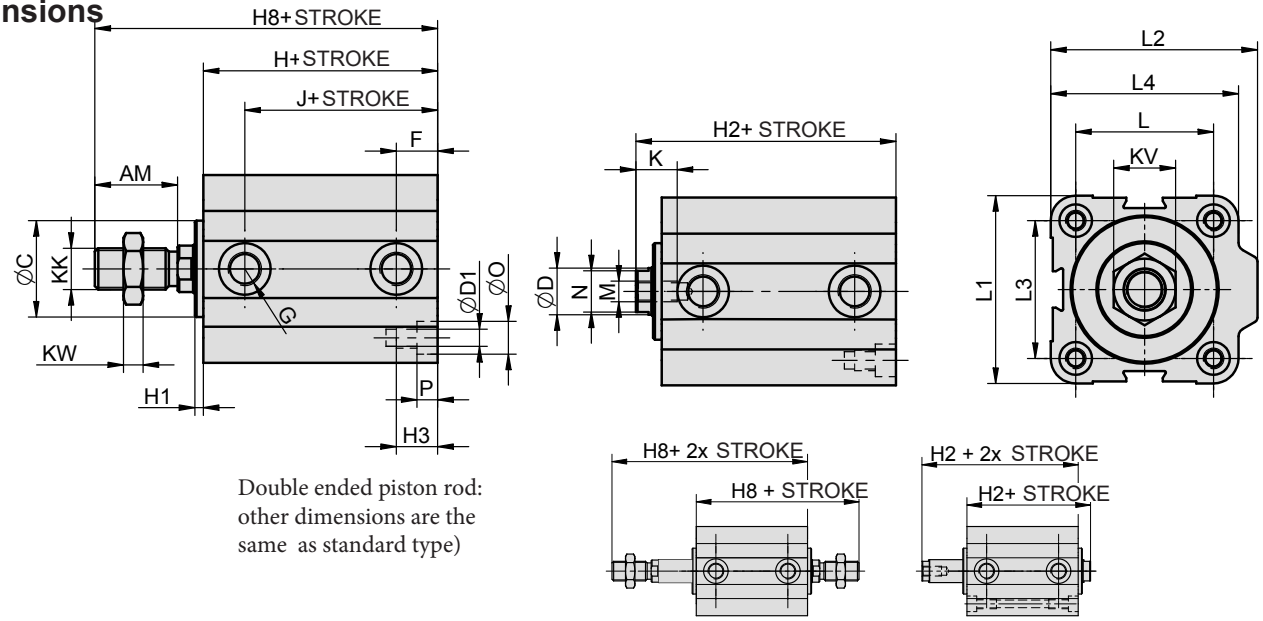
Piston diameter	
020	20 mm
025	25 mm
032	32 mm
040	40 mm
050	50 mm
063	63 mm
080	80 mm
100	100 mm
160	160 mm
250	250 mm

Stroke / Repair kit	
xxxx	mm of stroke e.g.: 0010 = stroke 10 mm
9999	repair kit

Construction / materials

- caps: anodized dural, piston dia. 250 mm: aluminium casting
- body: drawn dural profile, anodized, piston dia. 160 and 250 mm: aluminium casting
- piston rod: grounded round steel bar CK45 with hard chrome plated surface

Dimensions

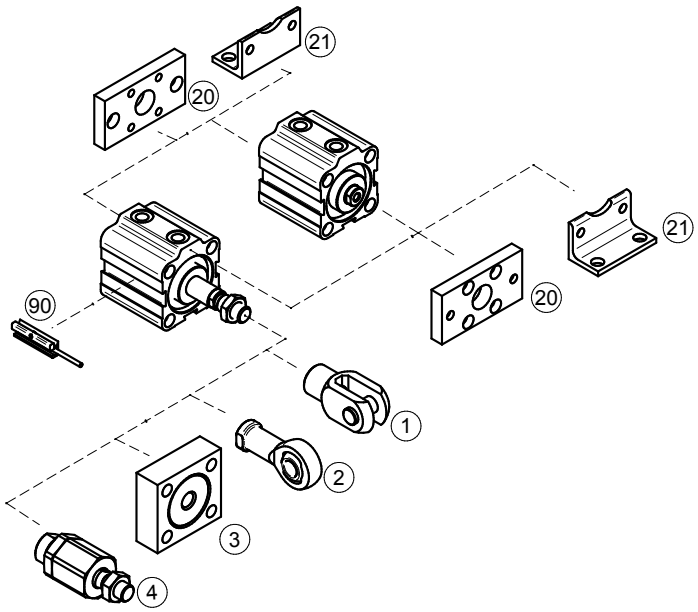


Double ended piston rod: other dimensions are the same as standard type)

∅	AM	C	D	D1	F	G	H	H1	H2	H3	H8	J	K	KK	KV	KW	L	L1	L2	L3	L4	M	N	O	P
20	20	12	8	M5	9	M5	28	2,5	35,5	15	55,5	19	8	M8	13	6	22	32	35	22	32	M5	7	7	5
20M	20	12	8	M5	9	M5	53,5	2,5	61	15	81	44,5	8	M8	13	6	22	32	35	22	32	M5	7	7	5
25	22	17	10	M5	10	G1/8“	32	2,5	39,5	15	61,5	22	8	M10x1,25	17	6	28	38	45	26	39	M5	8	8	5
25M	22	17	10	M5	10	G1/8“	46	2,5	53,5	15	75,5	36	8	M10x1,25	17	6	28	38	45	26	39	M5	8	8	5
32	22	21	12	M6	11	G1/8“	40	2,5	47,5	18	69,5	29	12	M10x1,25	17	6	36	45	54	32	48	M6	10	9,5	6
32M	22	21	12	M6	11	G1/8“	52	2,5	59,5	18	81,5	41	12	M10x1,,5	17	6	36	45	54	32	48	M6	10	9,5	6
40	24	28	14	M6	12	G1/8“	48	2,5	55,5	18	79,5	36	12	M12x1,25	19	10	40	55	60	40	55	M6	12	9,5	6
50	32	36	18	M8	13	G1/8“	49	2,5	57,5	24	89,5	36	14	M16x1,5	24	8	50	65	73	50	65	M8	16	11	8
63	32	48	18	M10	14,5	G1/8“	47	3,5	56,5	24,5	88,5	32,5	14	M16x1,5	24	8	62	80	88	62	80	M8	16	14	8,5
80	43	54	22	M10	16,5	G1/4“	52	3,5	61,5	24,5	104,5	35,5	17	M20x1,5	30	9	82	100	110	82	100	M10	19	14	8,5
80M	43	54	22	M10	16,5	G1/4“	57	3,5	66,5	24,5	109,5	40,5	17	M20x1,5	30	9	82	100	110	82	100	M10	19	14	8,5
100	43	60	22	M12	20	G1/4“	60	6	72	29	115	40	20	M20x1,5	30	9	103	124	134	103	124	M12	19	17	11
100M	43	60	22	M12	20	G1/4“	62	6	74	29	117	42	20	M20x1,5	30	9	103	124	134	103	124	M12	19	17	11
160	72	110	40	M20	23	G3/8“	96	–	113	45	185	73,5	25	M36x2	50	18	154	200	210	154	200	M16	36	26	21
250	84	–	50	M20	42	G1/2“	146	–	169	60	253	104	35	M42x2	65	21	220	275	300	220	–	M24	46	26	20

Notice: M after piston diameter size means cylinder with magnetic piston.

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	... 4-29
21 Foot mounting	... 4-29
90 Prox. switch	... 3-2, 3-4