

Profile cylinder ISO 15552, PRA series

- Ø 50 mm
- Ports G 1/4
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- Piston rod External thread
- Piston rod through



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	32 mm M10x1,25 G 1/8 12 mm	40 mm M12x1,25 G 1/4 16 mm	50 mm M16x1,5 G 1/4 20 mm	63 mm M16x1,5 G 3/8 20 mm	80 mm M20x1,5 G 3/8 25 mm	100 mm M20x1,5 G 1/2 25 mm
Stroke 25	R480041413	R480041432	R480041443	R480041453	R480041484	R480148059
50	R480041419	R480041433	R480041444	R480041454	R480041485	R480069994
80	R480041420	R480041434	R480041445	R480041455	R480041487	R480148061
100	R480041421	R480041435	R480041446	R480041456	R480041488	R480059815
125	R480041422	R480041436	R480041074	R480041457	R480041490	R480146278
160	R480041423	R480041437	R480041447	R480041458	R480041491	R480148062
200	R480041425	R480041438	R480041448	R480041459	R480041492	R480148063
250	R480041426	R480041439	R480041449	R480041460	R480041493	R480077546
320	R480041427	R480041440	R480041450	R480041461	R480041494	R480148064
400	R480041428	R480041441	R480041451	R480041481	-	R480148065
500	R480041429	R480041442	R480041452	R480041482	R480041497	R480148060

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
Stroke 25	R480148066
50	R480148067
80	R480148068
100	R480142910

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
125	R480148069
160	R480148070
200	R480148071
250	R480148072
320	R480148073
400	R480148074
500	R480148075

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

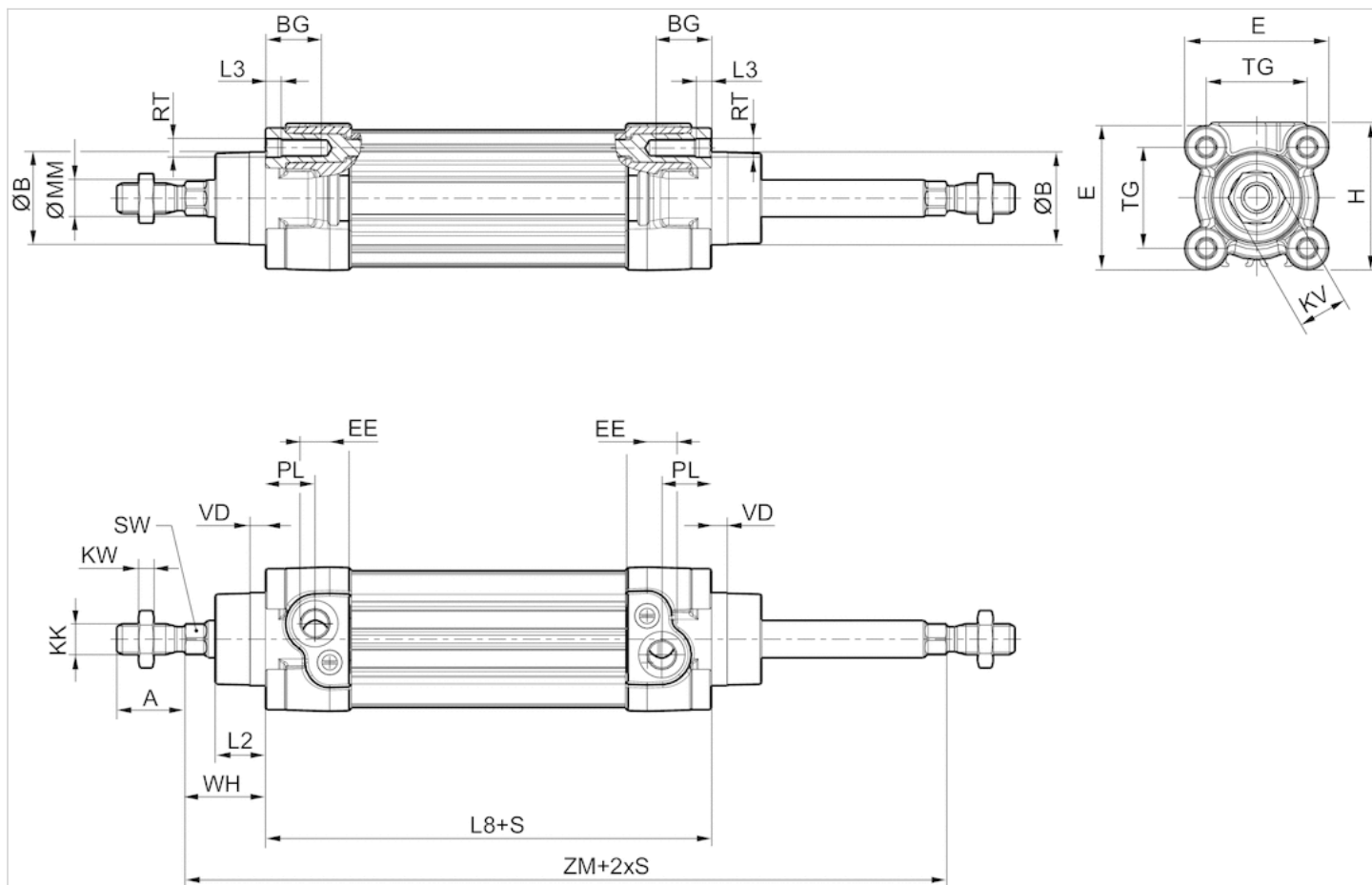
Cushioning length	16,5 mm	19 mm	17 mm	16,5 mm	19,5 mm	19,5 mm	22 mm
Cushioning energy	4,8 J	9 J	15 J	27 J	54 J	88 J	140 J
Weight 0 mm stroke	0,58 kg	0,8 kg	1,34 kg	1,72 kg	2,92 kg	4,08 kg	8,92 kg
Weight +10 mm stroke	0,031 kg	0,048 kg	0,072 kg	0,079 kg	0,124 kg	0,139 kg	0,22 kg
Stroke max.	1500 mm	1500 mm	1500 mm	1500 mm	1500 mm	1500 mm	1500 mm

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Dimensions

Dimensions



S = stroke

Dimensions

Piston Ø	A -2	ØB d11	BG min.	E	EE	G	H	KK	KV	KW	ØMM f8	PL	L2
32 mm	22	30	16	46.5	G 1/8	27.75	47.5	M10x1,25	16	5	12	16	16.25
40 mm	24	35	16	53	G 1/4	33.25	53	M12x1,25	18	6	16	20	18.25
50 mm	32	40	16	65	G 1/4	31	65	M16x1,5	24	8	20	19	25
50 mm	32	40	16	65	G 1/4	31	65	M16x1,5	24	8	20	19	25
50 mm	32	40	16	65	G 1/4	31	65	M16x1,5	24	8	20	19	25
63 mm	32	45	16	75	G 3/8	38.25	75	M16x1,5	24	8	20	24	25
80 mm	40	45	17	95	G 3/8	38.25	95	M20x1,5	30	10	25	23.5	33
100 mm	40	55	17	115	G 1/2	42.25	115	M20x1,5	30	10	25	25	36
125 mm	54	60	20	140	G 1/2	53.85	140	M27x2	41	13.5	32	33	45

Piston Ø	L3 ±0,5	L8	RT	SW	TG	VD	WH	ZM
32 mm	4.5	94±0,4	M6	10	32,5±0,5	5	26±1,4	146+3/-1,5
40 mm	4.5	105±0,7	M6	13	38±0,5	5	30±1,4	165+3/-1,5
50 mm	4.5	106±0,7	M8	17	46,5±0,6	5	37±1,4	180+3/-1,5
50 mm	4.5	106±0,7	M8	17	46,5±0,6	5	37±1,4	180+3/-1,5
50 mm	4.5	106±0,7	M8	17	46,5±0,6	5	37±1,4	180+3/-1,5

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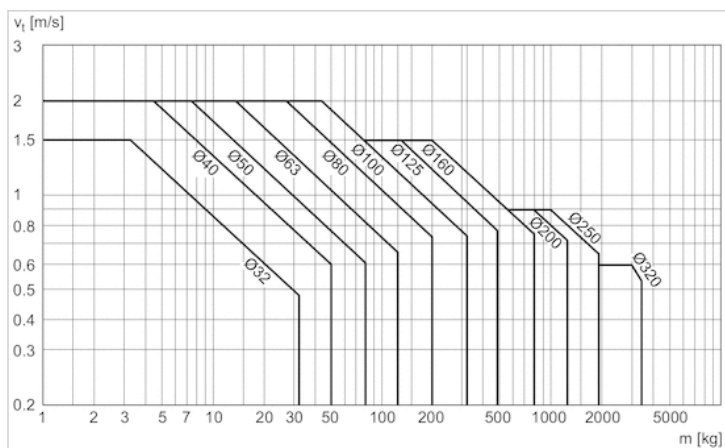
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Piston Ø	L3 ±0,5	L8	RT	SW	TG	VD	WH	ZM
63 mm	4.5	121±0,8	M8	17	56,5±0,7	5	37±1,8	195+3/-1,5
80 mm	0	128±0,8	M10	22	72±0,7	5	46±1,8	220+3/-1,5
100 mm	0	138±1	M10	22	89±0,7	5	51±1,8	240+3,5/-2
125 mm	0	160±1	M12	27	110±1,1	7	65±2,2	290+3,5/-2

Diagrams

Cushioning diagram



v = Piston velocity [m/s] m = Cushionable mass [kg]