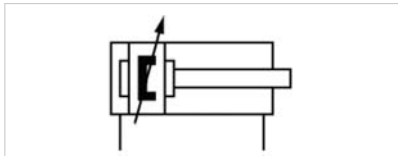


Profile cylinder ISO 15552, PRA series

- Ø 32-125 mm
- Ports G 1/8, G 1/4, G 3/8, G 1/2
- double-acting
- with magnetic piston
- Cushioning pneumatically, adjustable
- Piston rod External thread
- silicone-free
- Heat resistant



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 120 °C
Medium temperature min./max.	-10 ... 120 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
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	125 mm M27x2 G 1/2 32 mm
Stroke 25	R412014229	R412014243	R412014257	R412014278	R412014304	R412014327	R480605337
50	R412014230	R412014168	R412014258	R412014225	R412014305	R412014328	R480605338
80	R412014231	R412014170	R412014162	R412014279	R412014306	R412014329	R480605339
100	R412014232	R412014244	R412014259	R412014280	R412014307	R412014330	R480605340
125	R412014182	R412014216	R412014260	R412014281	R412014308	R412014331	R480605341
160	R412014233	R412014245	R412014261	R412014282	R412014309	R412014332	R480605342
200	R412014234	R412014246	R412014262	R412014283	R412014210	R412014333	R480605343
250	R412014235	R412014247	R412014263	R412014214	R412014219	R412013911	R480605146
320	R412014236	R412014248	R412014183	R412014284	R412014310	R412014334	R480605344
400	R412014237	R412013926	R412014264	R412014285	R412014206	R412014335	R480605345
500	R412014238	R412014249	R412014265	R412014286	R412014311	R412014336	R480605346

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm
Retracting piston force	435 N	660 N	1035 N	1765 N	2855 N
Extracting piston force	505 N	790 N	1235 N	1960 N	3165 N
Cushioning length	11,5 mm	15 mm	17 mm	16,5 mm	19,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J	54 J
Weight 0 mm stroke	0,5 kg	0,65 kg	1,06 kg	1,42 kg	2,37 kg
Weight +10 mm stroke	0,022	0,032	0,047	0,054	0,085
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm	2800 mm
Sealing material	Fluorocautchouc	Fluorocautchouc	Fluorocautchouc	Fluorocautchouc	Fluorocautchouc

Piston Ø	100 mm	125 mm
Retracting piston force	4635 N	7220 N
Extracting piston force	4945 N	7725 N
Cushioning length	19,5 mm	22 mm
Cushioning energy	88 J	140 J
Weight 0 mm stroke	3,51 kg	6,72 kg
Weight +10 mm stroke	0,1	0,15
Stroke max.	2800 mm	2750 mm
Sealing material	Fluorocautchouc	Polyurethane

Technical information

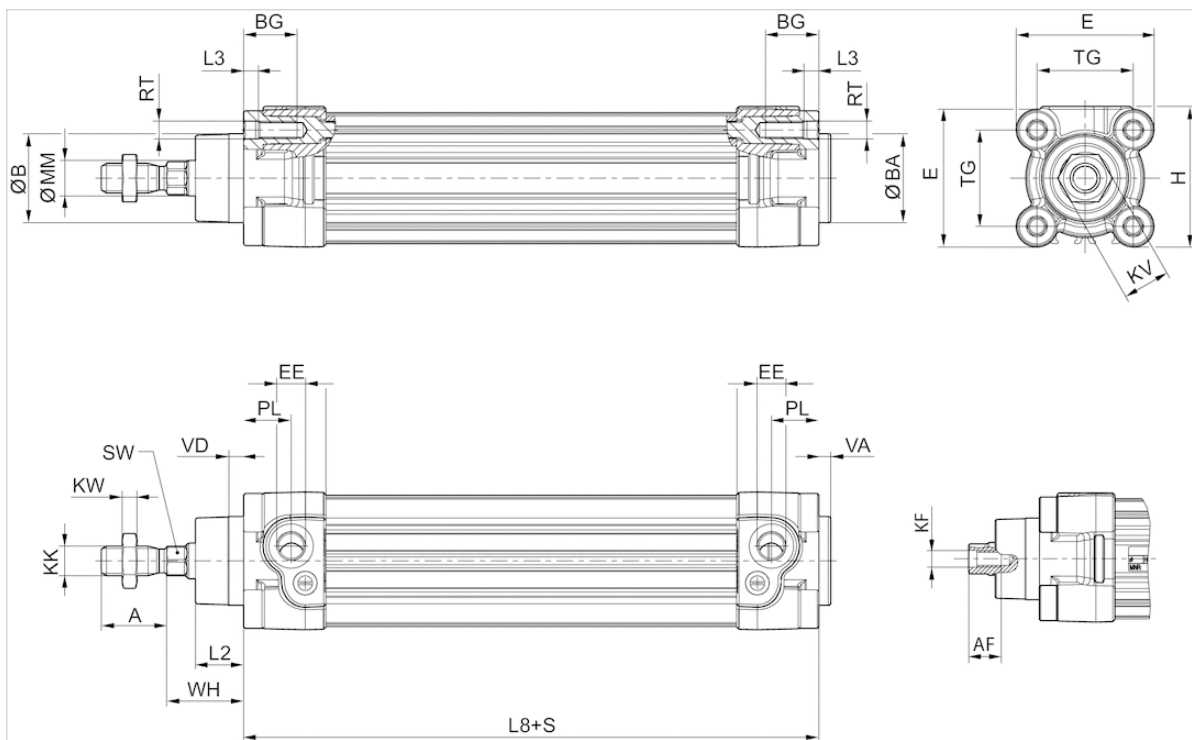
The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .
The oil content of compressed air must remain constant during the life cycle.
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



S = stroke

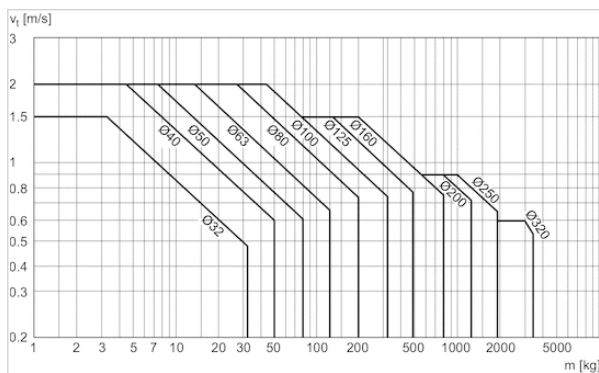
Dimensions

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW	ØMM f8	PL	L2	L3 ±0,5
32 mm	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25	16	5	12	16	16.25	4.5
40 mm	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25	18	6	16	20	18.25	4.5
50 mm	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5	24	8	20	19	25	4.5
63 mm	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5	24	8	20	24	25	4.5
80 mm	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5	30	10	25	23.5	33	0
100 mm	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5	30	10	25	25	36	0
125 mm	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2	41	13.5	32	33	45	0

L8	RT	SW	TG	VA -1	VD	WH
94±0,4	M6	10	32,5±0,5	4	5	26±1,4
105±0,7	M6	13	38±0,5	4	5	30±1,4
106±0,7	M8	17	46,5±0,6	4	5	37±1,4
121±0,8	M8	17	56,5±0,7	4	5	37±1,8
128±0,8	M10	22	72±0,7	4	5	46±1,8
138±1	M10	22	89±0,7	4	5	51±1,8
160±1	M12	27	110±1,1	6	7	65±2,2

Diagrams

Cushioning diagram



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

Accessories overview

