

# Profile cylinder ISO 15552, PRA series

- Ø 32 mm
- Ports G 1/8
- double-acting
- Cushioning Pneumatically adjustable
- Piston rod External thread
- Heat resistant



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 150 °C
Medium temperature min./max.	-10 ... 150 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6.3 bar

## Technical data

	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Piston rod thread	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5
Ports	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2
Piston rod Ø	12 mm	16 mm	20 mm	20 mm	25 mm	25 mm
Stroke 25	R480144202	R480041108	R480147979	R480147990	R480144198	R480148011
50	R480147959	R480147968	R480147980	R480147991	R480148001	R480148012
80	R480040989	R480147969	R480147981	R480147992	R480148002	R480148013
100	R480147960	R480147970	R480147982	R480147993	R480147611	R480148014
125	R480147961	R480147971	R480147983	R480147994	R480148003	R480148015
160	R480147962	R480147972	R480147984	R480147995	R480148004	R480148016
200	R480147963	R480147973	R480147985	R480144714	R480147052	R480148017
250	R480147964	R480147974	R480147986	R480147996	R480148005	R480148018
320	R480147965	R480147975	R480147987	R480147997	R480146313	R480148019
400	R480147966	R480147976	R480147988	R480147998	R480042946	R480148020
500	R480147967	R480147977	R480147989	R480147999	R480148009	R480147194

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
Stroke 25	R480170695
50	R480157264
80	R480163258
100	R480153677
125	R480155595

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
160	R480170774
200	R480165969
250	R480158304
320	R480170775
400	R480170776
500	R480149365

## 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).

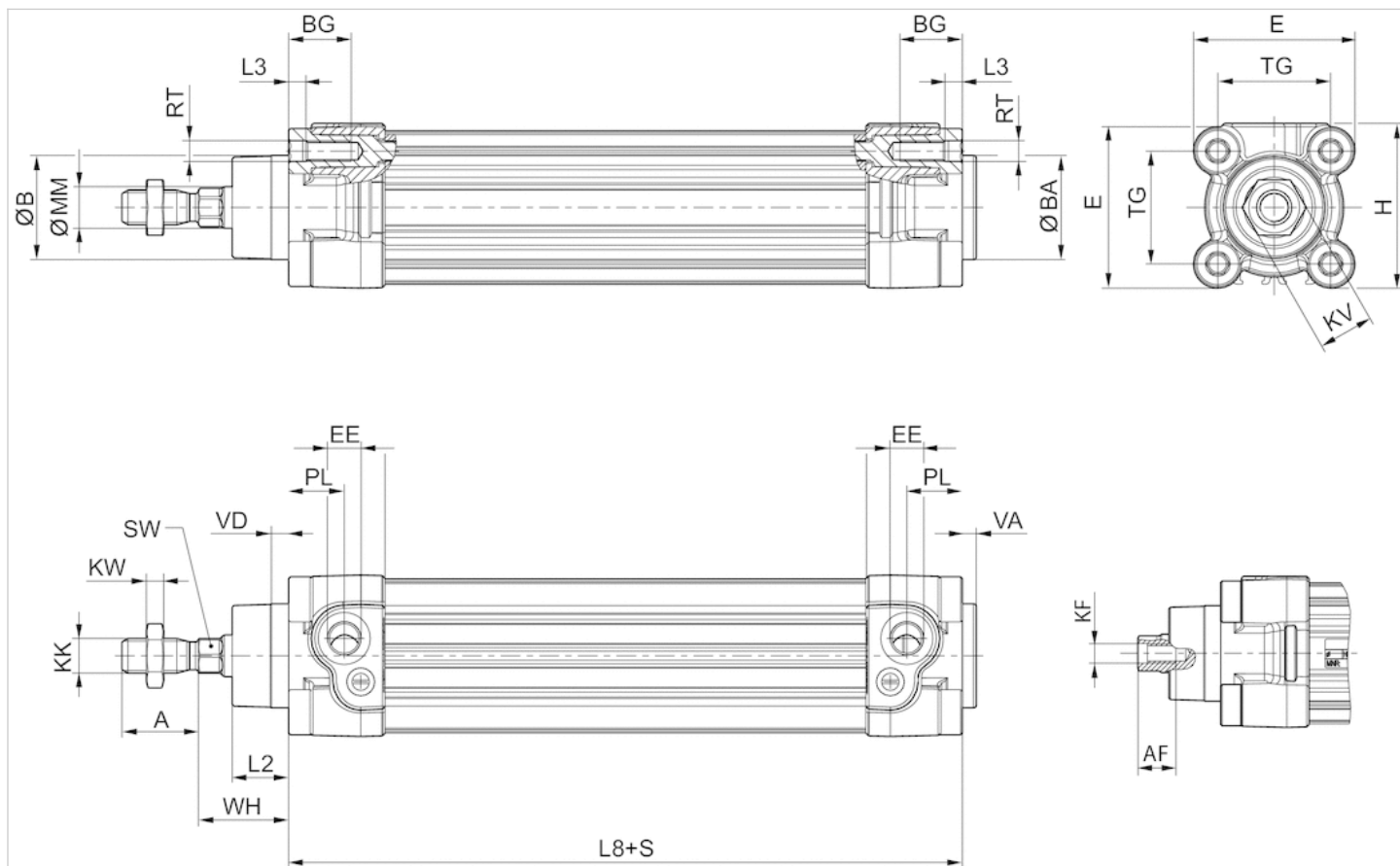
Cushioning length	11,5 mm	15 mm	17 mm	16,5 mm	19,5 mm	19,5 mm	22 mm
Cushioning energy	4,8 J	9 J	15 J	27 J	54 J	88 J	140 J
Weight 0 mm stroke	0,5 kg	0,65 kg	1,06 kg	1,42 kg	2,37 kg	3,51 kg	6,72 kg
Weight +10 mm stroke	0,022 kg	0,032 kg	0,047 kg	0,054 kg	0,085 kg	0,1 kg	0,15 kg
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm	2800 mm	2800 mm	2750 mm

## Technical information

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

## Dimensions

### Dimensions



S = stroke

## Dimensions

Piston $\varnothing$	A -2	AF+1	$\varnothing B$ d11	$\varnothing BA$ d11	BG min.	E	EE	G	H	KF	KK	KV	KW
32 mm	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25	16	5
32 mm	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25	16	5
32 mm	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25	16	5
40 mm	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25	18	6
50 mm	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5	24	8
63 mm	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5	24	8
80 mm	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5	30	10
100 mm	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5	30	10
125 mm	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2	41	13.5

Piston $\varnothing$	$\varnothing MM$ f8	PL	L2	L3 $\pm 0,5$	L8	RT	SW	TG	VA -1	VD	WH
32 mm	12	16	16.25	4.5	94 $\pm 0,4$	M6	10	32,5 $\pm 0,5$	4	5	26 $\pm 1,4$
32 mm	12	16	16.25	4.5	94 $\pm 0,4$	M6	10	32,5 $\pm 0,5$	4	5	26 $\pm 1,4$
32 mm	12	16	16.25	4.5	94 $\pm 0,4$	M6	10	32,5 $\pm 0,5$	4	5	26 $\pm 1,4$
40 mm	16	20	18.25	4.5	105 $\pm 0,7$	M6	13	38 $\pm 0,5$	4	5	30 $\pm 1,4$
50 mm	20	19	25	4.5	106 $\pm 0,7$	M8	17	46,5 $\pm 0,6$	4	5	37 $\pm 1,4$
63 mm	20	24	25	4.5	121 $\pm 0,8$	M8	17	56,5 $\pm 0,7$	4	5	37 $\pm 1,8$

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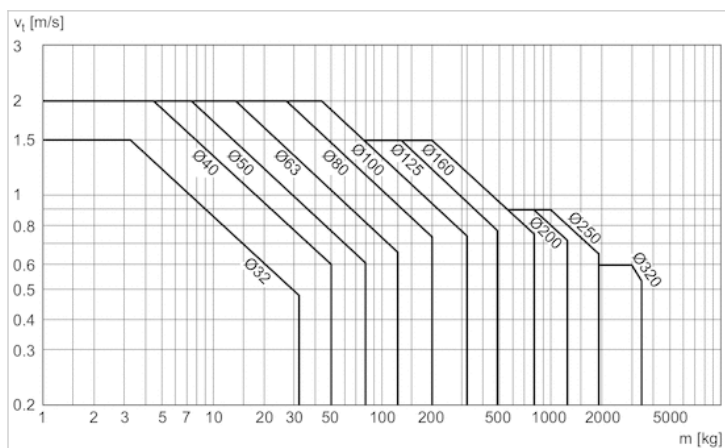
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Piston Ø	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD	WH
80 mm	25	23.5	33	0	128±0,8	M10	22	72±0,7	4	5	46±1,8
100 mm	25	25	36	0	138±1	M10	22	89±0,7	4	5	51±1,8
125 mm	32	33	45	0	160±1	M12	27	110±1,1	6	7	65±2,2

## Diagrams

### Cushioning diagram



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