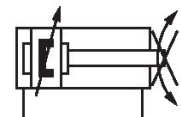


AVENTICS Series PRA Profile cylinders (ISO 15552)

The AVENTICS Series PRA (ISO 15552) cylinders have a compact design profile with integrated sensor slots. The Series PRA (ISO 15552) cylinders can be used for all industries. This includes general automation technology, machine and systems construction, as well as specific industry applications.



Technical data

Industry	Industrial
Standards	ISO 15552
Piston Ø	40 mm
Stroke	100 mm
Ports	G 1/4
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard
Piston rod thread - type	External thread
Piston rod thread	M12x1,25
Piston rod	non-rotating
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	660 N
Extracting piston force	790 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	1.5 bar

Profile cylinder ISO 15552, PRA series

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Max. working pressure	10 bar
Cushioning length	19 mm
Cushioning energy	9 J
Max. torque for torsion protection	1.5 Nm
Rotation angle tolerance (\pm)	1.6 °
Weight 0 mm stroke	0.65 kg
Weight +10 mm stroke	0.032 kg
Stroke max.	1500 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	80 °C
Max. particle size	50 μ m
Min. oil content of compressed air	0 mg/m ³
Max. oil content of compressed air	5 mg/m ³

Material

Piston rod	Stainless Steel
Scraper material	Polyurethane
Seal material	Polyurethane
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Part No.	R481601983

Technical information

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.

The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C.

The pressure dew point must be at least 15 °C less than 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 <https://www.emerson.com/en-us/support>).

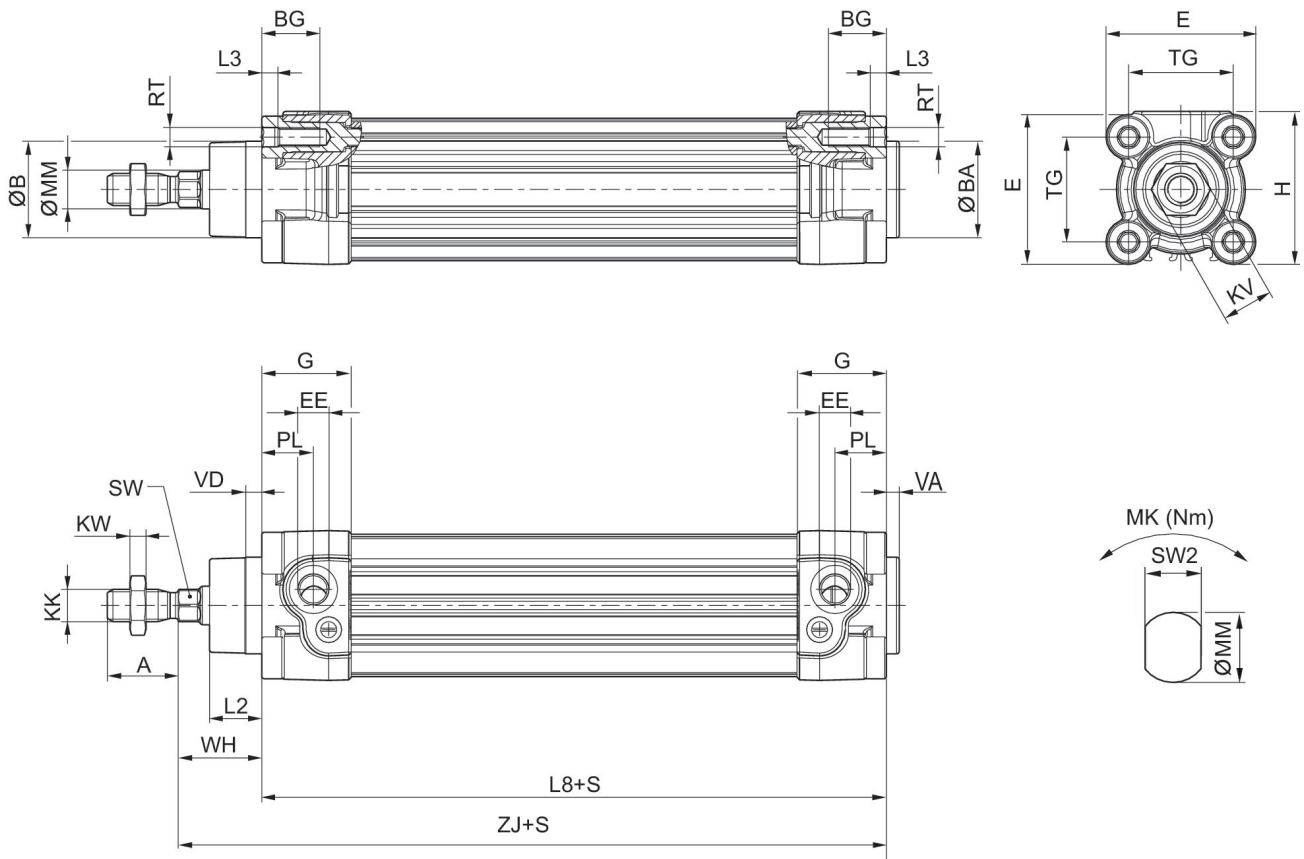
Profile cylinder ISO 15552, PRA series

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Dimensions



S = stroke

Piston Ø	A -2	ØB d11	ØBA d11	BG min.	E	EE	G	H	KK
32	22	30	30	16	46.5	G 1/8	27.75	47.5	M10x1,25
40	24	35	35	16	53	G 1/4	33.25	53	M12x1,25
50	32	40	40	16	65	G 1/4	31	65	M16x1,5
63	32	45	45	16	75	G 3/8	38.25	75	M16x1,5

Piston Ø	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW
32	16	5	12	16	16.25	4.5	94±0,4	M6	10
40	18	6	16	20	18.25	4.5	105±0,7	M6	13
50	24	8	20	19	25	4.5	106±0,7	M8	16*
63	24	8	20	24	25	4.5	121±0,8	M8	16*

Piston Ø	TG	VA -1	VD	WH	ZJ	MK	SW2
32	32,5±0,5	4	5	26±1,4	120	0,75	10
40	38±0,5	4	5	30±1,4	135	1,5	13
50	46,5±0,6	4	5	37±1,4	143	2	16
63	56,5±0,7	4	5	37±1,8	158	2	16

* not according to ISO 15552

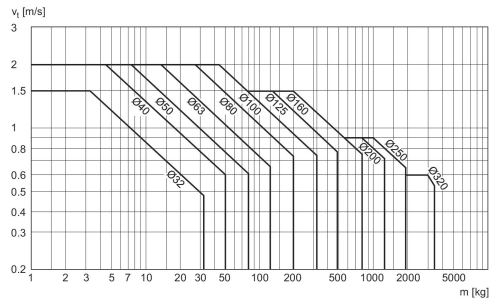
Profile cylinder ISO 1552, PRA series

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Cushioning diagram



v_1 = Piston velocity [m/s] m = Cushionable mass [kg]

Profile cylinder ISO 1552, PRA series

series PRA

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