

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.

- 6 mm T-slots and 4 mm C-slots allow for a large number of sensors to be mounted easily, quickly and compactly
- Available in piston diameters from 32 mm to 125 mm
- Modular sealing system allows for adaptability
- Advanced pneumatic end position cushioning
- Additional elastic damping elements
- Wide range of variants and accessories available in the configurator



Technical data

Industry	Industrial
Standards	ISO 15552
Piston Ø	32 mm
Stroke	25 mm
Ports	G 1/8
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	M10x1,25
Piston rod	non-rotating
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	435 N
Extracting piston force	505 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	16.5 mm
Cushioning energy	4.8 J
Max. torque for torsion protection	0.75 Nm
Rotation angle tolerance (±)	1.8 °
Weight 0 mm stroke	0.5 kg
Weight +10 mm stroke	0.022 kg
Stroke max.	1500 mm
Medium	Compressed air
Min. medium temperature	-20 °C
Max. medium temperature	80 °C
Max. particle size	50 µm
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.	R481601969

Technical information

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

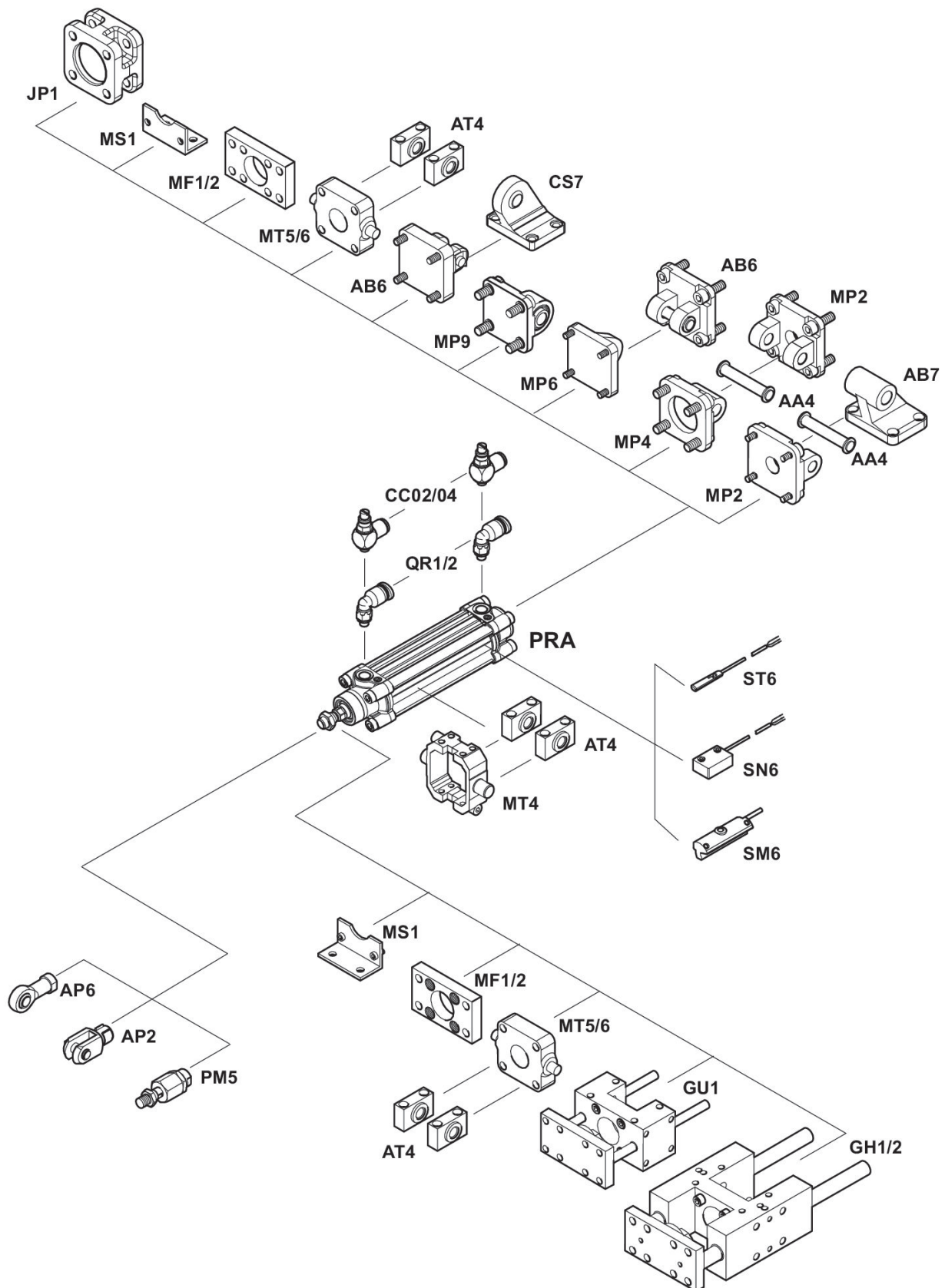
The oil content of compressed air must remain constant during the life cycle.

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Dimensions



S = stroke

Piston Ø	A -2	ØB d11	ØBA d11	BG min.	E	EE	G	H	KK	KV
32	22	30	30	16	46.5	G 1/8	27.75	47.5	M10x1,25	16
40	24	35	35	16	53	G 1/4	33.25	53	M12x1,25	18
50	32	40	40	16	65	G 1/4	31	65	M16x1,5	24
63	32	45	45	16	75	G 3/8	38.25	75	M16x1,5	24

Piston Ø	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1
32	5	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4
40	6	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4
50	8	20	19	25	4.5	106±0,7	M8	16*	46,5±0,6	4
63	8	20	24	25	4.5	121±0,8	M8	16*	56,5±0,7	4

Piston Ø	VD	WH	ZJ	MK	SW2
32	5	26±1,4	120	0,75	10
40	5	30±1,4	135	1,5	13
50	5	37±1,4	143	2	16
63	5	37±1,8	158	2	16

* not according to ISO 15552

Cushioning diagram



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