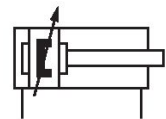


Profile cylinder ISO 15552, Series PRA - inch

R480176437

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
Piston Ø	63 mm
Stroke	76.2 mm
Ports	3/8 NPT
Functional principle	Double-acting
Cushioning	Pneumatic adjustable cushioning
Magnetic piston	Piston with magnet
Environmental requirements	Industry standard ATEX optional
Piston rod thread - type	External thread
Piston rod thread	3/4-16 UNF
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	1765 N
Extracting piston force	1960 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	2 bar
Max. working pressure	10 bar

Profile cylinder ISO 15552, Series PRA - inch

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Cushioning length	16.5 mm
Cushioning energy	27 J
Weight 0 mm stroke	1.42 kg
Weight +10 mm stroke	0.054 kg
Stroke max.	2500 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/m³
Max. oil content of compressed air	5 mg/m³

Material

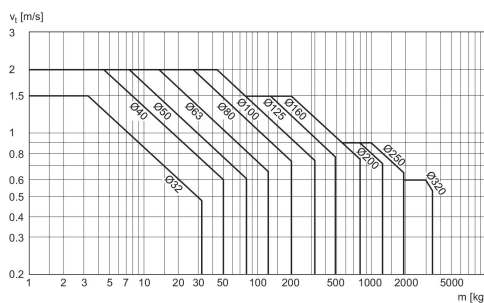
Piston rod	Stainless Steel
Scraper material	Polyurethane
Seal material	Polyurethane
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Part No.	R480176437

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.

Cushioning diagram

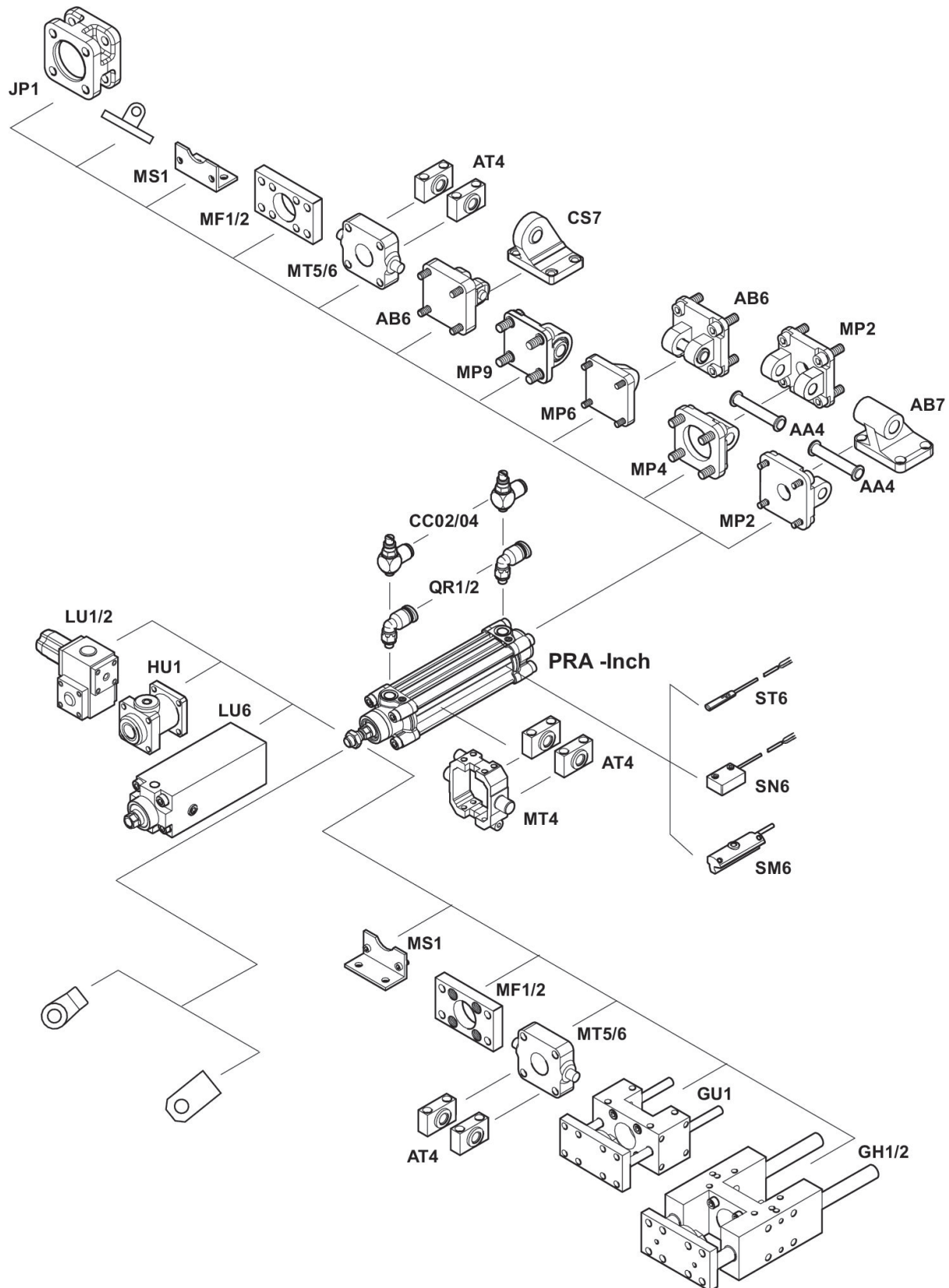


v_t = Piston velocity [m/s] m = Cushionable mass [kg]

Profile cylinder ISO 15552, Series PRA - inch

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Overview drawing

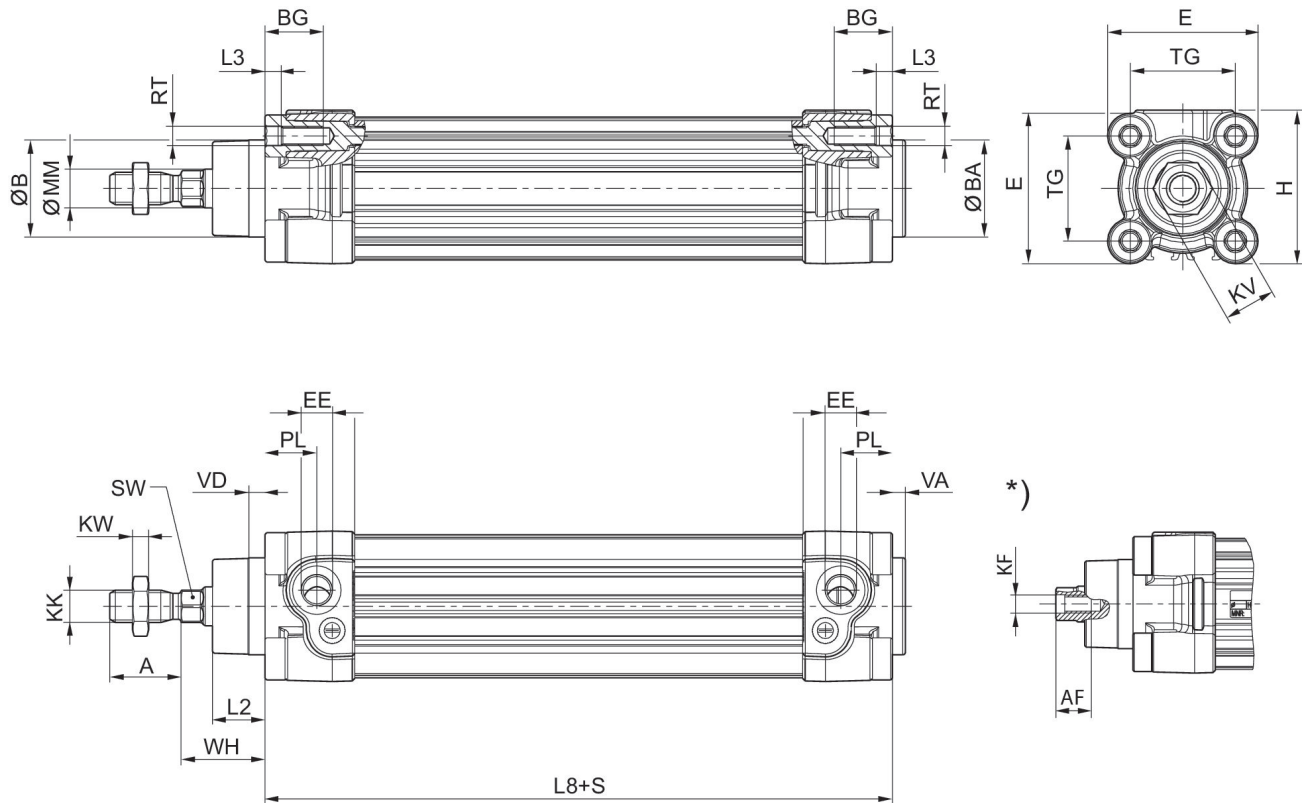


NOTE: This overview drawing is only for orientation to indicate where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.

Profile cylinder ISO 15552, Series PRA - inch

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Dimensions



S = stroke

* Internal thread

Profile cylinder ISO 15552, Series PRA - inch

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Piston Ø	A -2	ØB d11	ØBA d11	BG min.	E	EE inch	EE	H	KK inch	KK
32	22	30	30	16	46.5	1/8 NPT	G 1/8	47.5	7/16 - 20 UNF	M10x1,25
40	24	35	35	16	53	1/4 NPT	G 1/4	53	1/2 - 20 UNF	M12x1,25
50	32	40	40	16	65	1/4 NPT	G 1/4	65	3/4 - 16 UNF	M16x1,5
63	32	45	45	16	75	3/8 NPT	G 3/8	75	3/4 - 16 UNF	M16x1,5
80	40	45	45	17	95	3/8 NPT	G 3/8	95	3/4 - 16 UNF	M20x1,5
100	40	55	55	17	115	1/2 NPT	G 1/2	115	3/4 - 16 UNF	M20x1,5
125	54	60	60	20	140	1/2 NPT	G 1/2	140	1 - 14 UNF	M27x2

Piston Ø	KV	KW	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG
32	16	5	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5
40	18	6	16	20	18.25	4.5	105±0,7	M6	13	38±0,5
50	24	8	20	19	25	4.5	106±0,7	M8	17	46,5±0,6
63	24	8	20	24	25	4.5	121±0,8	M8	17	56,5±0,7
80	30	10	25	23.5	33	0	128±0,8	M10	22	72±0,7
100	30	10	25	25	36	0	138±1	M10	22	89±0,7
125	41	13.5	32	33	45	0	160±1	M12	27	110±1,1

Piston Ø	VA -1	VD	WH
32	4	5	26±1,4
40	4	5	30±1,4
50	4	5	37±1,4
63	4	5	37±1,8
80	4	5	46±1,8
100	4	5	51±1,8
125	6	7	65±2,2