

Tie rod cylinder ISO 15552, Series TRB

- ISO 15552
- Ø 32-125 mm
- Ports G 1/8 G 1/4 G 3/8 G 1/2
- double-acting
- with magnetic piston
- Cushioning elastic
- Piston rod External thread



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1,5 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
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
Stroke 25	0822340600	0822341600	0822342600	0822343600	0822344600	0822345600
50	0822340601	0822341601	0822342601	0822343601	0822344601	0822345601
80	0822340602	0822341602	0822342602	0822343602	0822344602	0822345602
100	0822340611	R480055348	0822342607	0822343603	0822344603	0822345604
125	0822340612	0822341611	0822342612	R480163015	0822344605	R480141842
160	0822340609	0822341610	0822342606	0822343606	0822344609	0822345606
200	R480162940	0822341604	0822342620	R480163016	0822344607	0822345610
250	0822340618	0822341608	0822342614	0822343608	0822344608	R480149881
320	R480162941	R480162983	0822342621	0822343612	0822344606	R480163046
400	0822340614	0822341605	R480162998	R480163017	0822344604	0822345603
500	R480045159	R480162984	R480162999	R480163018	0822344611	R480163047

Piston Ø Piston rod thread Ports Piston rod Ø	125 mm M27x2 G 1/2 32 mm
Stroke 25	R480170413
50	R480142425
80	R480170781
100	R480160422
125	R480170784
160	R480170785
200	R480170786
250	R480170787
320	R480146555
400	R480170788
500	R480168824

Technical data

Piston Ø	32 mm	40 mm	50 mm	63 mm
Retracting piston force	435 N	660 N	1035 N	1765 N
Extracting piston force	505 N	790 N	1235 N	1960 N
Impact energy	0,4 J	0,65 J	1 J	1,6 J
Weight 0 mm stroke	0,46 kg	0,67 kg	1,14 kg	1,4 kg
Weight +10 mm stroke	0,024 kg	0,03 kg	0,036 kg	0,052 kg
Tie-rods	Stainless steel	Stainless steel	Steel galvanized	Steel galvanized
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm

Piston Ø	80 mm	100 mm	125 mm
Retracting piston force	2855 N	4635 N	7220 N
Extracting piston force	3165 N	4945 N	7725 N
Impact energy	2,5 J	3,9 J	6 J
Weight 0 mm stroke	2,12 kg	3,16 kg	6,92 kg
Weight +10 mm stroke	0,06 kg	0,065 kg	0,21 kg
Tie-rods	Steel galvanized	Steel galvanized	Steel galvanized
Stroke max.	2800 mm	2800 mm	2750 mm

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).

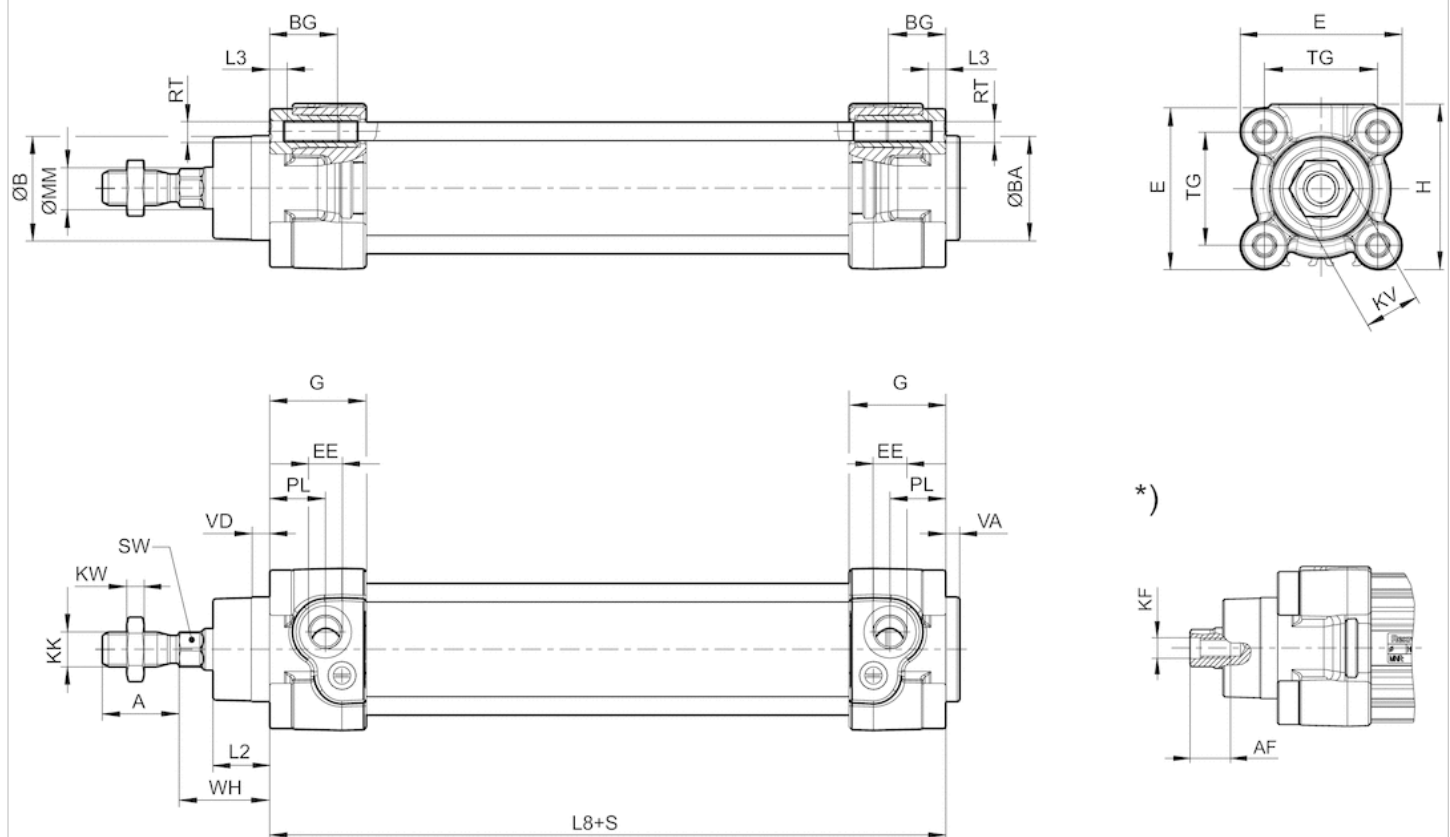
Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel

Material	
Front cover	Die-cast aluminum
End cover	Die-cast aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane
Tie-rods	Stainless steel Steel, galvanized
	See table for additional data on materials.

Dimensions

Dimensions



S = stroke

*) For cylinders with optional piston rod with internal thread

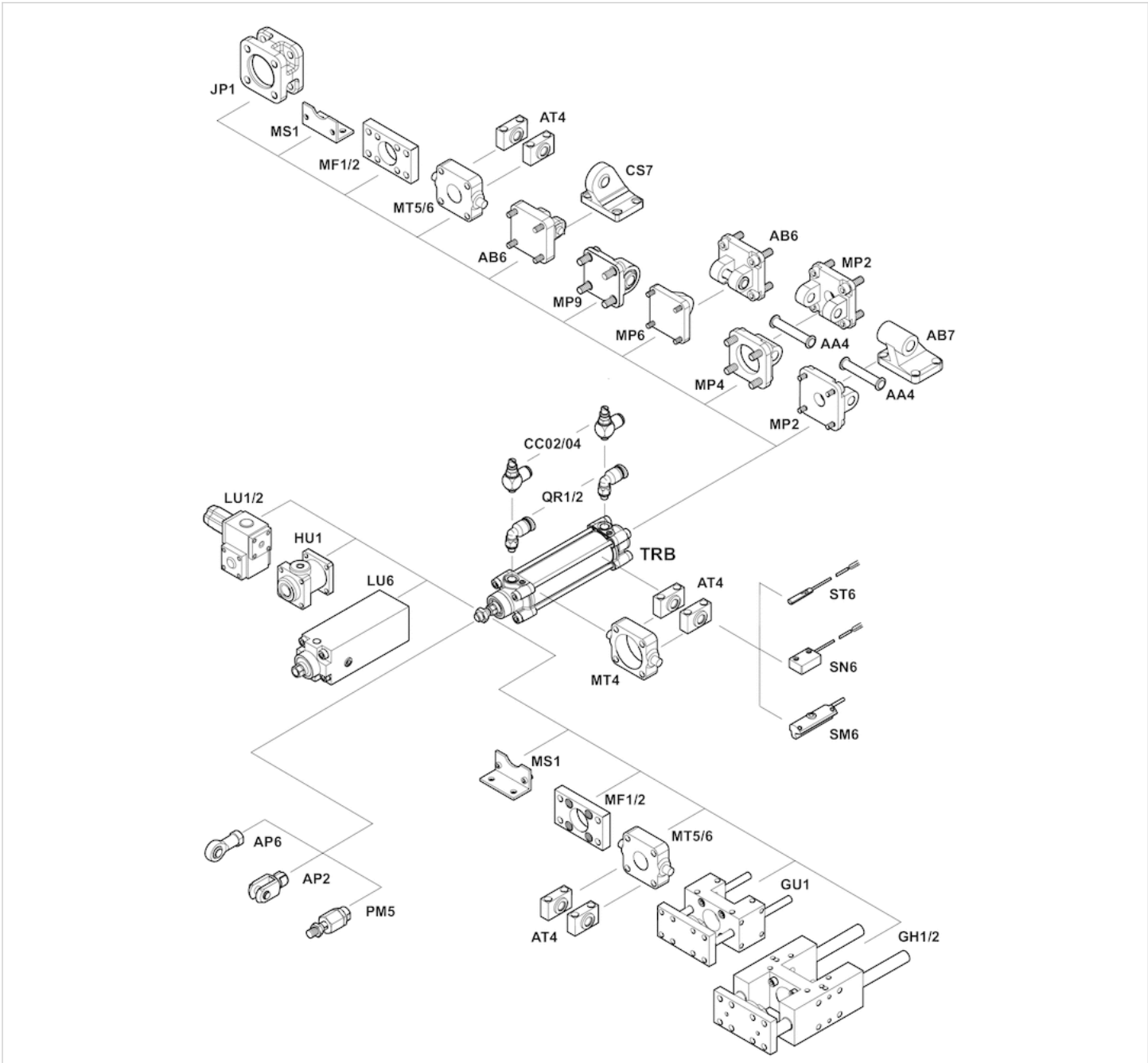
Dimensions

Piston Ø	A -2	AF+1	ØB d11	ØBA 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
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

Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW
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 Ø	ØMM f8	PL	L2	L3 ±0,5	L8	RT	SW	TG	VA -1	VD	WH
32 mm	12	16	16.25	4.5	94±0,4	M6	10	32,5±0,5	4	5	26±1,4
40 mm	16	20	18.25	4.5	105±0,7	M6	13	38±0,5	4	5	30±1,4
50 mm	20	19	25	4.5	106±0,7	M8	17	46,5±0,6	4	5	37±1,4
63 mm	20	24	25	4.5	121±0,8	M8	17	56,5±0,7	4	5	37±1,8
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

Accessories overview



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