

## Tie rod cylinder ISO 15552, Series TRB

- Ø 63 mm
- Ports G 3/8
- double-acting
- Cushioning pneumatically, adjustable
- Piston rod External thread
- silicone-free
- Heat resistant



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	1,5 ... 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

Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm	125 mm
Piston rod thread	M10x1,25	M12x1,25	M16x1,5	M16x1,5	M20x1,5	M20x1,5	M27x2
Ports	G 1/8	G 1/4	G 1/4	G 3/8	G 3/8	G 1/2	G 1/2
Piston rod Ø	12 mm	16 mm	20 mm	20 mm	25 mm	25 mm	32 mm
Stroke 25	0822240400	0822241400	0822242400	0822243400	0822244400	0822245400	0822206401
50	0822240401	0822241401	0822242401	0822243401	0822244401	0822245401	0822206402
80	0822240402	0822241402	0822242402	0822243402	0822244402	0822245402	0822206403
100	0822240403	0822241403	0822242403	0822243403	0822244403	0822245403	0822206404
125	0822240404	0822241404	0822242404	0822243404	0822244404	0822245404	0822206405
160	0822240405	0822241405	0822242405	0822243405	0822244405	0822245405	0822206406
200	0822240406	0822241406	0822242406	0822243406	0822244406	0822245406	0822206407
250	0822240407	0822241407	0822242407	0822243407	0822244407	0822245407	0822206408
320	0822240408	0822241408	0822242408	0822243408	0822244408	0822245408	0822206409
400	0822240409	0822241409	0822242409	0822243409	0822244409	0822245409	0822206410
500	0822240410	0822241410	0822242410	0822243410	0822244410	0822245410	0822206411

### 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	19,5 mm	19,5 mm	19,5 mm
Cushioning energy	4,8 J	9 J	15 J	27 J	54 J	88 J
Weight 0 mm stroke	0,46 kg	0,67 kg	1,14 kg	1,4 kg	2,12 kg	3,16 kg

Piston Ø	32 mm	40 mm	50 mm	63 mm	80 mm	100 mm
Weight +10 mm stroke	0,024	0,03	0,036	0,052	0,06	0,065
Tie-rods	Stainless steel	Stainless steel	Steel, galvanized	Steel, galvanized	Steel, galvanized	Steel, galvanized
Stroke max.	1600 mm	1900 mm	2100 mm	2500 mm	2800 mm	2800 mm

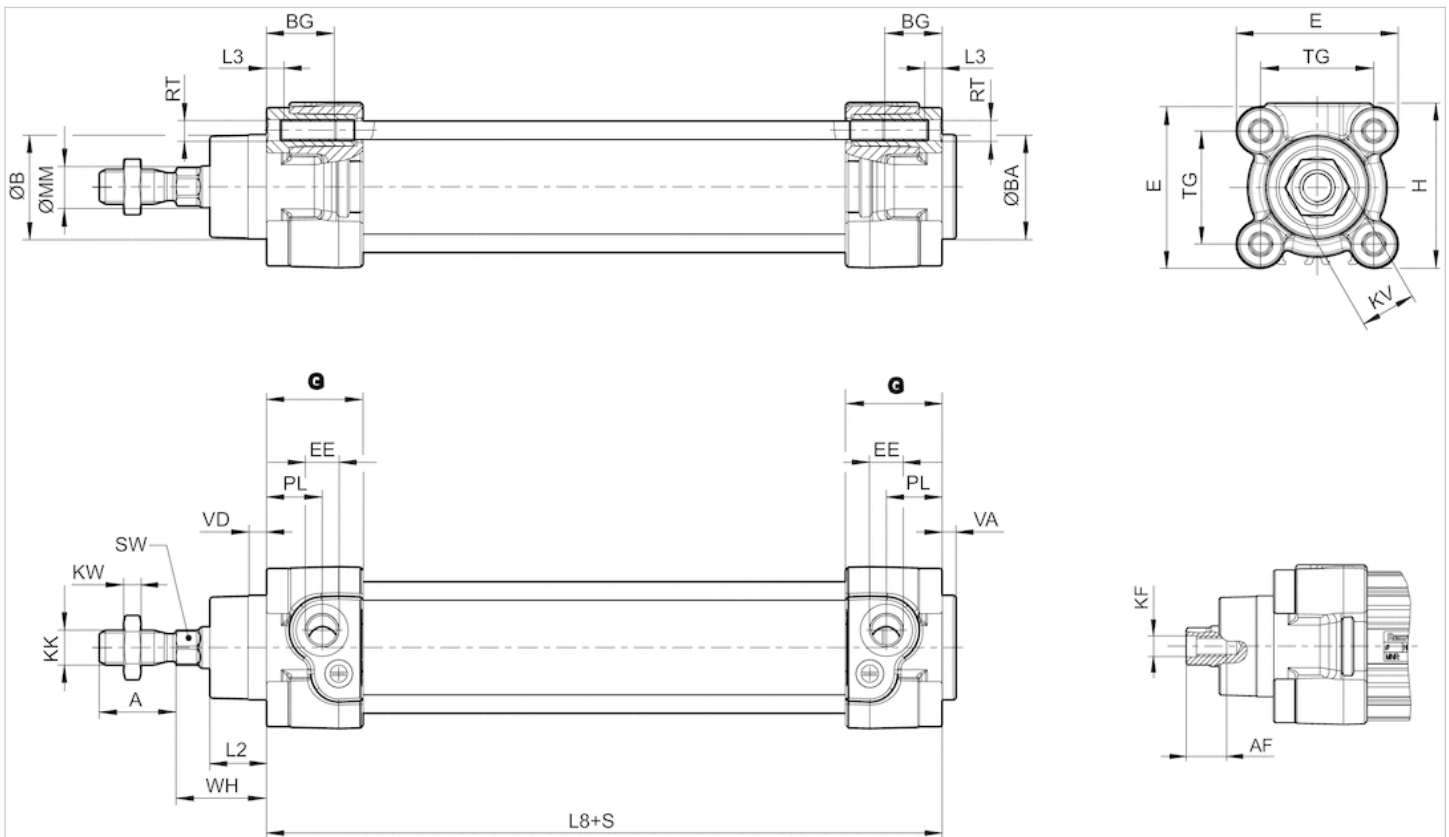
Piston Ø	125 mm
Retracting piston force	7220 N
Extracting piston force	7725 N
Cushioning length	22 mm
Cushioning energy	140 J
Weight 0 mm stroke	6,92 kg
Weight +10 mm stroke	0,21
Tie-rods	Steel, galvanized
Stroke max.	2750 mm

## 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
Tie-rods	Stainless steel, Steel, galvanized
	See table for additional data on materials.

## Dimensions

### Dimensions



S = stroke

## Dimensions

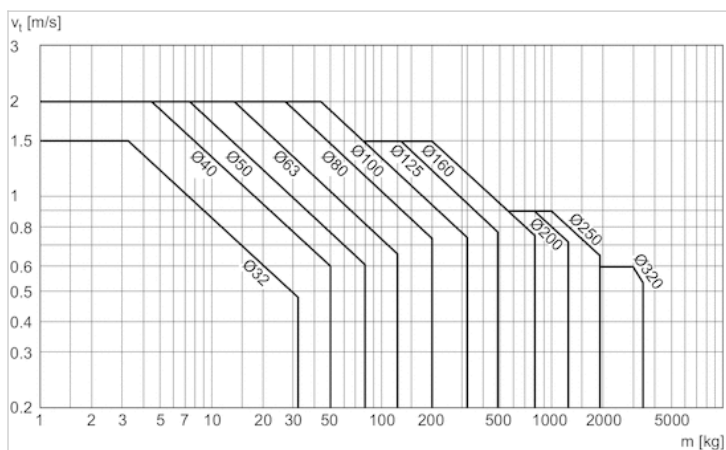
Piston Ø	A -2	AF+1	ØB d11	ØBA d11	BG min.	E	EE	G	H	KF	KK	KV	KW	ØMM f8	PL	L2	L3 ±0,5
32 mm	22	12	30	30	16	46.5	G 1/8	27.75	47.5	M6	M10x1,25	16	5	12	16	16.25	4.5
40 mm	24	13.5	35	35	16	53	G 1/4	33.25	53	M8	M12x1,25	18	6	16	20	18.25	4.5
50 mm	32	17	40	40	16	65	G 1/4	31	65	M10	M16x1,5	24	8	20	19	25	4.5
63 mm	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5	24	8	20	24	25	4.5
63 mm	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5	24	8	20	24	25	4.5
63 mm	32	17	45	45	16	75	G 3/8	38.25	75	M10	M16x1,5	24	8	20	24	25	4.5
80 mm	40	21	45	45	17	95	G 3/8	38.25	95	M12	M20x1,5	30	10	25	23.5	33	0
100 mm	40	21	55	55	17	115	G 1/2	42.25	115	M12	M20x1,5	30	10	25	25	36	0
125 mm	54	28	60	60	20	140	G 1/2	53.85	140	M16	M27x2	41	13.5	32	33	45	0

Piston Ø	L8	RT	SW	TG	VA -1	VD	WH
32 mm	94±0,4	M6	10	32,5±0,5	4	5	26±1,4
40 mm	105±0,7	M6	13	38±0,5	4	5	30±1,4
50 mm	106±0,7	M8	17	46,5±0,6	4	5	37±1,4
63 mm	121±0,8	M8	17	56,5±0,7	4	5	37±1,8
63 mm	121±0,8	M8	17	56,5±0,7	4	5	37±1,8
63 mm	121±0,8	M8	17	56,5±0,7	4	5	37±1,8
80 mm	128±0,8	M10	22	72±0,7	4	5	46±1,8
100 mm	138±1	M10	22	89±0,7	4	5	51±1,8

Piston Ø	L8	RT	SW	TG	VA -1	VD	WH
125 mm	160±1	M12	27	110±1,1	6	7	65±2,2

## Diagrams

### Cushioning diagram



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