# AVENTICS Series ITS Tie rod cylinders (ISO 15552)

The AVENTICS Series ITS (ISO 15552) cylinders are often chosen when extremely large loads need to be moved efficiently and under control with the familiar ease of operation. The Series ITS (ISO 15552) cylinders are easily configurable to your application needs.





Technical data
Industry
Standards
Piston Ø
Stroke
Ports
Functional principle
Cushioning
Magnetic piston
Environmental requirements
Distant and thread thread
Piston rod thread - type
Piston rod thread
Piston rod
Scraper
Pressure for determining piston forces
Retracting piston force
Extracting piston force

Industrial ISO 15552 320 mm 250 mm G 1 Double-acting Pneumatic adjustable cushioning Piston with magnet Industry standard Heat resistant External thread M48x2 single Heat-Resistant Scraper 6,3 bar 48704 N 50668 N -10 °C 120 °C 2 bar



Min. ambient temperature

Max. ambient temperature Min. working pressure

### Tie rod cylinder ISO 15552, Series ITS

R480627662

Max. working pressure	10 bar
Cushioning length	56 mm
Cushioning energy	190 J
Weight 0 mm stroke	46.89 kg
Weight +10 mm stroke	0.61 kg
Stroke max.	2500 mm
Medium	Compressed air
Min. medium temperature	-10 °C
Min. medium temperature Max. medium temperature	-10 °C 120 °C
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Max. medium temperature	120 °C

#### Material

Piston rod	Stainless Steel
Scraper material	Fluorocaoutchouc
Material tie-rod	Stainless Steel
Seal material	Fluorocaoutchouc
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Part No.	R480627662

#### **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.

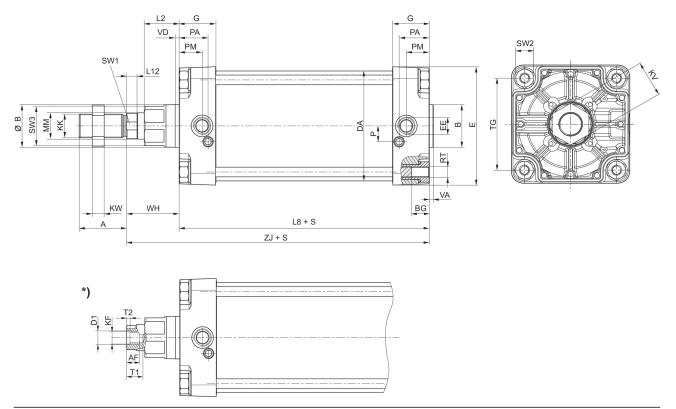
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



## Tie rod cylinder ISO 15552, Series ITS

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#### Dimensions



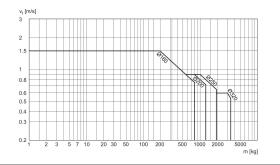
S = stroke \*) For cylinders with optional piston road with internal thread

Piston Ø	A	В	ØB	BG	DA	E	EE	G	KK
160	72	65	65	24	167	180	G 3/4	56	M36x2
200	72	75	75	24	210	220	G 3/4	54	M36x2
250	84	90	90	25	262	280	G 1	59.5	M42x2
320	96	110	110	28	336	350	G 1	61.5	M48x2
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Piston Ø	KV	KW	L2	L8	L12	MM	Р	PA	PM
160	55	18	53	180	16	40	24	45	35
200	55	18	56	180	16	40	22.5	42	30
250	65	21	67	200	20	50	29	46	32.8
320	75	24	76	220	23.25	63	30	48	37
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Piston Ø	RT	SW1	SW2	SW3	TG	VA	VD	WH	ZJ
160	M16	36	27	60	140	6	6	80	260
200	M16	36	27	60	175	6	6	95	275
250	M20	46	41	80	220	10	31	105	305.3
320	M24	55	50	95	270	10	34	120	340.5



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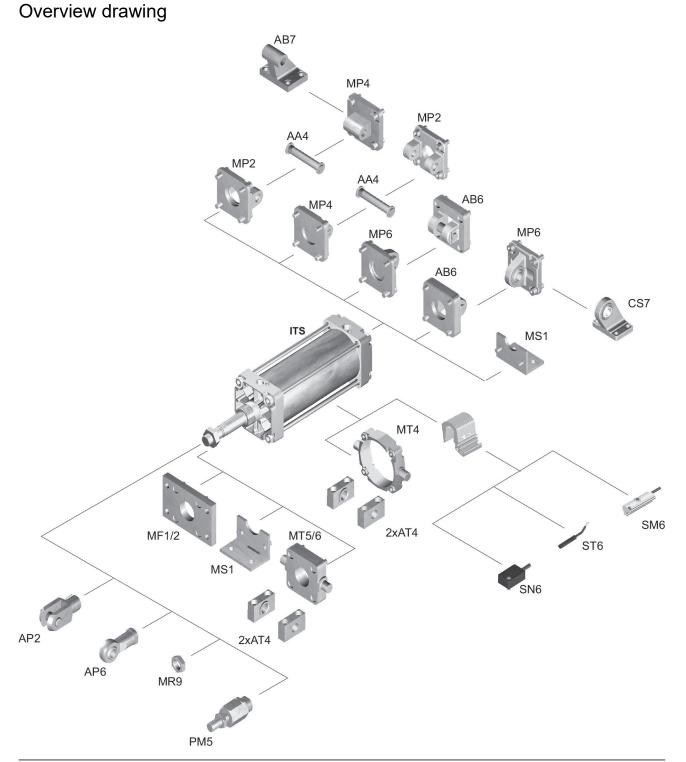
### Cushioning diagram



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



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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.

