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	Industrial
Standards	ISO 15552
Piston Ø	200 mm
Stroke	320 mm
Ports	G 3/4
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	M36x2
Piston rod	single
Scraper	Standard Industry Scraper
Pressure for determining piston forces	6,3 bar
Retracting piston force	19000 N
Extracting piston force	19792 N
Min. ambient temperature	-20 °C
Max. ambient temperature	80 °C
Min. working pressure	2 bar



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Max. working pressure	10 bar
Cushioning length	46 mm
Cushioning energy	170 J
Weight 0 mm stroke	15.67 kg
Weight +10 mm stroke	0.21 kg
Stroke max.	2700 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
Clamping piece for magnetic field sensor	Clamping piece for magnetic field sensor
necessary	necessary

Material

Piston rod Scraper material Material tie-rod Seal material Material, front cover Cylinder tube End cover Nut for piston rod Part No. Stainless Steel Acrylonitrile butadiene rubber Stainless Steel Acrylonitrile butadiene rubber Die-cast aluminum Aluminum Die-cast aluminum Steel, chrome-plated R480627375

Technical information

ATEX-certified cylinders with identification II 2G Ex h IIC T4 Gb / II 2D Ex h IIIC T135°C Db_X can be generated in the Internet configurator.

The operating temperature range for ATEX-certified cylinders is -20°C ... 60°C. 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.

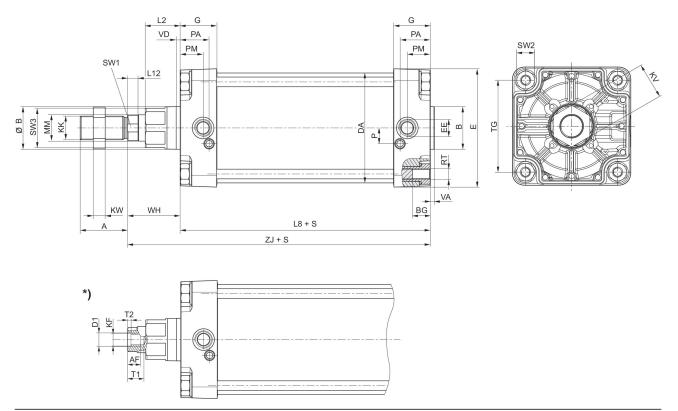
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in https://www.emerson.com/en-us/support).



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Dimensions



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

Piston Ø	А	AF		ØВ	BG	D1	DA		EE
160	72	36	65	65	24	25	167	180	G 3/4
200	72	36	75	75	24	25	210	220	G 3/4
250	84	50	90	90	25	31	262	280	G 1
320	96	55	110	110	28	37	336	350	G 1
Piston Ø	G	KF	KK	KV	KW	L2	L8	L12	MM
160	56	M24	M36x2	55	18	53	180	16	40
200	54	M24	M36x2	55	18	56	180	16	40
250	59.5	M30	M42x2	65	21	67	200	20	50
320	61.5	M36	M48x2	75	24	76	220	23.25	63
		,							
Piston Ø	Р	PA	PM	RT	SW1	SW2	SW3	T1	T2
160	24	45	35	M16	36	27	60	40	10
200	22.5	42	30	M16	36	27	60	40	10
250	29	46	32.8	M20	46	41	80	60	10
320	30	48	37	M24	55	50	95	65	13
Piston Ø	TG	VA	VD	WH	ZJ				
160	140	6	6	80	260				
		•			•	•			

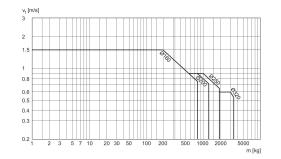


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Piston Ø	TG	VA	VD	WH	ZJ
200	175	6	6	95	275
250	220	10	31	105	305.3
320	270	10	34	120	340.5

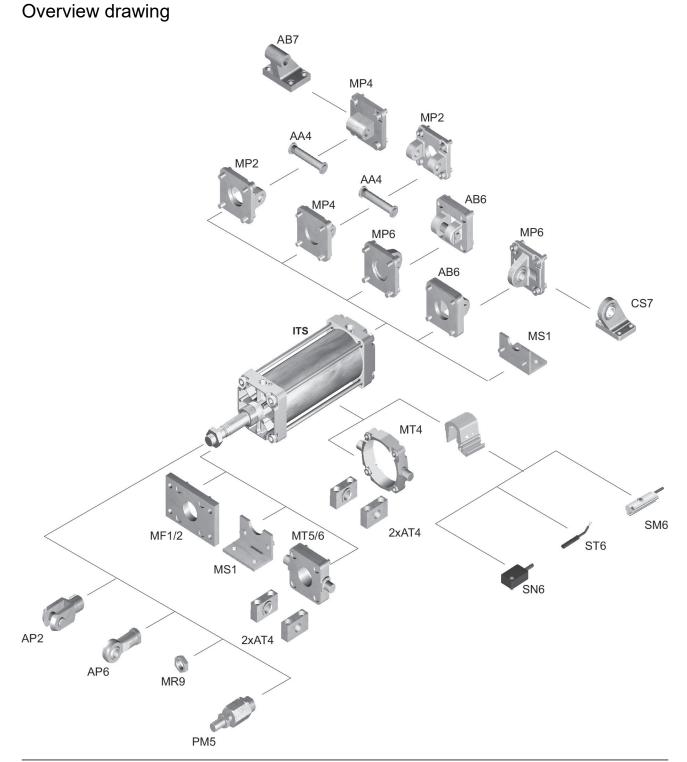
Cushioning diagram



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.

