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	Ir
Standards	IS
Piston Ø	32
Stroke	5
Ports	G
Functional principle	D
Cushioning	Р
Magnetic piston	Р
Environmental requirements	lr
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Piston rod thread - type	E
Piston rod thread	N
Piston rod	si
Scraper	С
Pressure for determining piston forces	6
Retracting piston force	4
Extracting piston force	5
Min. ambient temperature	_2
Max. ambient temperature	7
Min. working pressure	2

ndustrial SO 15552 320 mm 500 mm G 1 Double-acting Pneumatic adjustable cushioning Piston with magnet ndustry standard cold-resistant External thread M48x2 single Cold-Resistant Scraper 5,3 bar 8704 N 50668 N 40 °C 7° 0' 2 bar



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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	-40 °C
Max. medium temperature	70 °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 necessary	Clamping piece for magnetic field sensor necessary

Material	
Piston rod	Stainless Steel
Scraper material	Polyurethane metal
Material tie-rod	Stainless Steel
Seal material	Acrylonitrile butadiene rubber
Material, front cover	Die-cast aluminum
Cylinder tube	Aluminum
End cover	Die-cast aluminum
Nut for piston rod	Steel, chrome-plated
Part No.	R481604682

Technical information

The pressure dew point must be at least 15 °C less than ambient and medium temperature and may not exceed 3 °C.

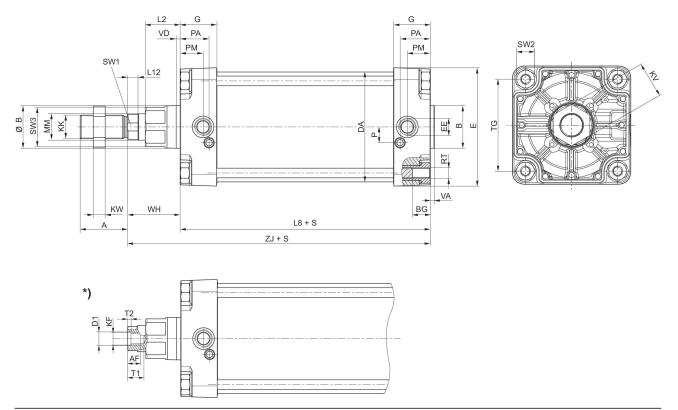
The oil content of compressed air must remain constant during the life cycle.

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).



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Dimensions



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

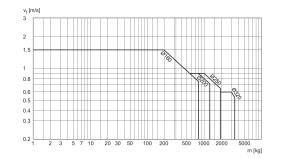
Piston Ø	А	AF		ØВ	BG	D1	DA		EE
160	72	36	65	65	24	25	167	180	G 3/4
200	72	36	75	75	24	25	210	220	G 3/4
250	84	50	90	90	25	31	262	280	G 1
320	96	55	110	110	28	37	336	350	G 1
Piston Ø	G	KF	KK	KV	KW	L2	L8	L12	MM
160	56	M24	M36x2	55	18	53	180	16	40
200	54	M24	M36x2	55	18	56	180	16	40
250	59.5	M30	M42x2	65	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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