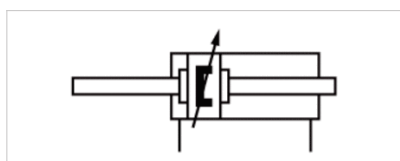


Tie rod cylinder ISO 15552, Series ITS

- Ø 160-320 mm
- Ports G 3/4, G 1
- double-acting
- with magnetic piston
- Cushioning pneumatically, adjustable
- Piston rod External thread
- Piston rod through
- ATEX optional



Standards	ISO 15552
Compressed air connection	Internal thread
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/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø Piston rod thread Ports Piston rod Ø	160 mm M36x2 G 3/4 40 mm	200 mm M36x2 G 3/4 40 mm	250 mm M42x2 G 1 50 mm	320 mm M48x2 G 1 63 mm
Stroke 10	R480627318	R480627390	R480627486	R480632135
25	R480632697	R480627391	R480627487	R480627499
50	R480627320	R480627392	R480627488	R480627500
80	R480627321	R480627393	R480627489	R480627501
100	R480627322	R480627394	R480627490	R480627502
125	R480627323	R480627395	R480627491	R480627503
160	R480635054	R480627396	R480627492	R480627504
200	R480627325	R480627397	R480627493	R480631095
250	R480627326	R480627398	R480627494	R480627506
320	R480627327	R480627399	R480627495	R480627507
400	R480627328	R480627400	R480627496	R480627508
500	R480627329	R480627401	R480627497	R480627509

Technical data

Piston Ø	160 mm	200 mm	250 mm	320 mm
Retracting piston force	11875 N	19000 N	29688 N	48704 N
Extracting piston force	11875 N	19000 N	29688 N	48704 N
Cushioning length	50 mm	50 mm	64 mm	55 mm
Cushioning energy	160 J	170 J	180 J	190 J
Weight 0 mm stroke	14,44 kg	17,93 kg	28,46 kg	51,23 kg
Weight +10 mm stroke	0,42 kg	0,42 kg	0,76 kg	1,22 kg
Stroke max.	2700 mm	2700 mm	2500 mm	2500 mm
Working pressure min./max.	1,5 ... 10 bar	1,5 ... 10 bar	1,5 ... 10 bar	2 ... 10 bar

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).

Clamping piece for magnetic field sensor necessary

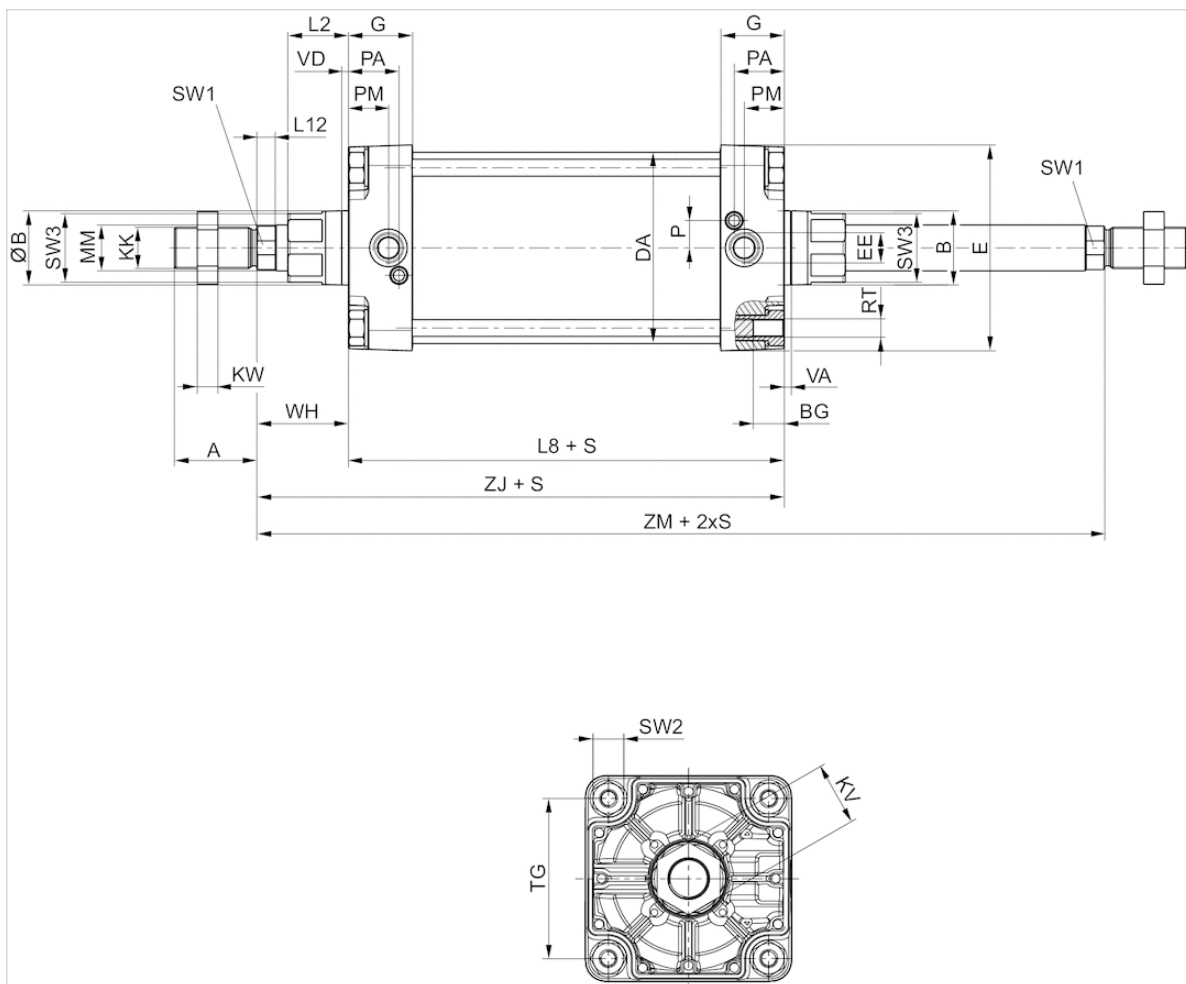
ATEX-certified cylinders with identification II 2G c IIB T4 / II 2D c IP65 T125°C X can be generated in the Internet configurator.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
Seal	Acrylonitrile butadiene rubber
Nut for piston rod	Steel, galvanized
Scraper	Acrylonitrile butadiene rubber
Tie-rods	Stainless steel

Dimensions

Dimensions



S = stroke

Dimensions

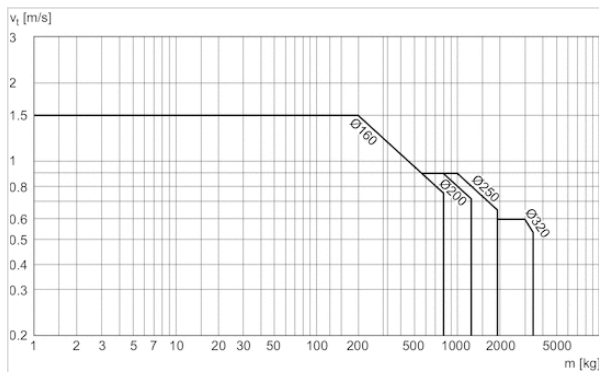
Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG
160 mm	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180	16	40	24	45	35	M16	36	27	60	140
200 mm	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180	16	40	22.5	42	30	M16	36	27	60	175
250 mm	84	90	90	25	262	280	G 1	59.5	M42x2	65	21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

Piston Ø	VD	WH	ZJ	ZM
160 mm	6	80	260	340
200 mm	6	95	275	370
250 mm	31	105	305.3	411
320 mm	34	120	340.5	462

PDF creation date: 23.07.2018

Diagrams

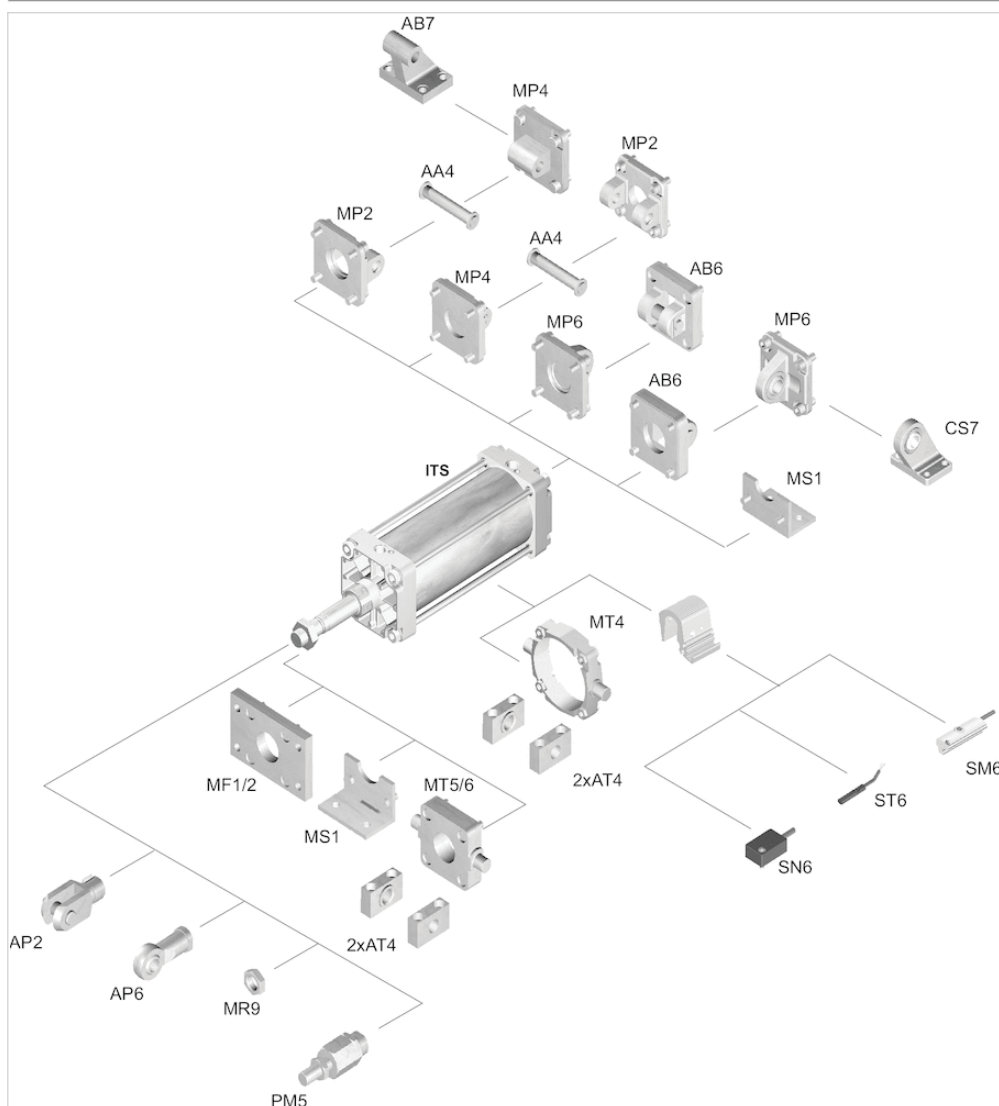
Cushioning diagram



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

Accessories overview

Overview drawing



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.