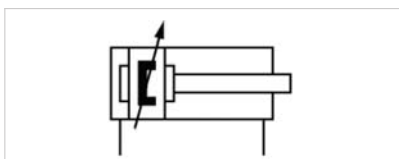


Tie rod cylinder ISO 15552, Series ITS

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



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
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 25	R480627343	R480627415	R480627535	R480627547
50	R480627344	R480627416	R480627536	R480627548
80	R480627345	R480627417	R480627537	R480627549
100	R480627346	R480627418	R480627538	R480627550
125	R480627347	R480627419	R480627539	R480627551
160	R480627348	R480627420	R480627540	R480627552
200	R480627349	R480627421	R480627541	R480627553
250	R480627350	R480627422	R480627542	R480627554
320	R480627351	R480627423	R480627543	R480627555
400	R480627352	R480627424	R480627544	R480627556
500	R480627353	R480627425	R480627545	R480627557

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	12667 N	19792 N	30925 N	50668 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	15,67 kg	20,25 kg	34,98 kg	82,49 kg
Weight +10 mm stroke	0,21 kg	0,21 kg	0,38 kg	0,61 kg
Stroke max.	2700 mm	2700 mm	2500 mm	2500 mm

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

The trunnion mounting is positioned in the center at the factory and can be adjusted later.

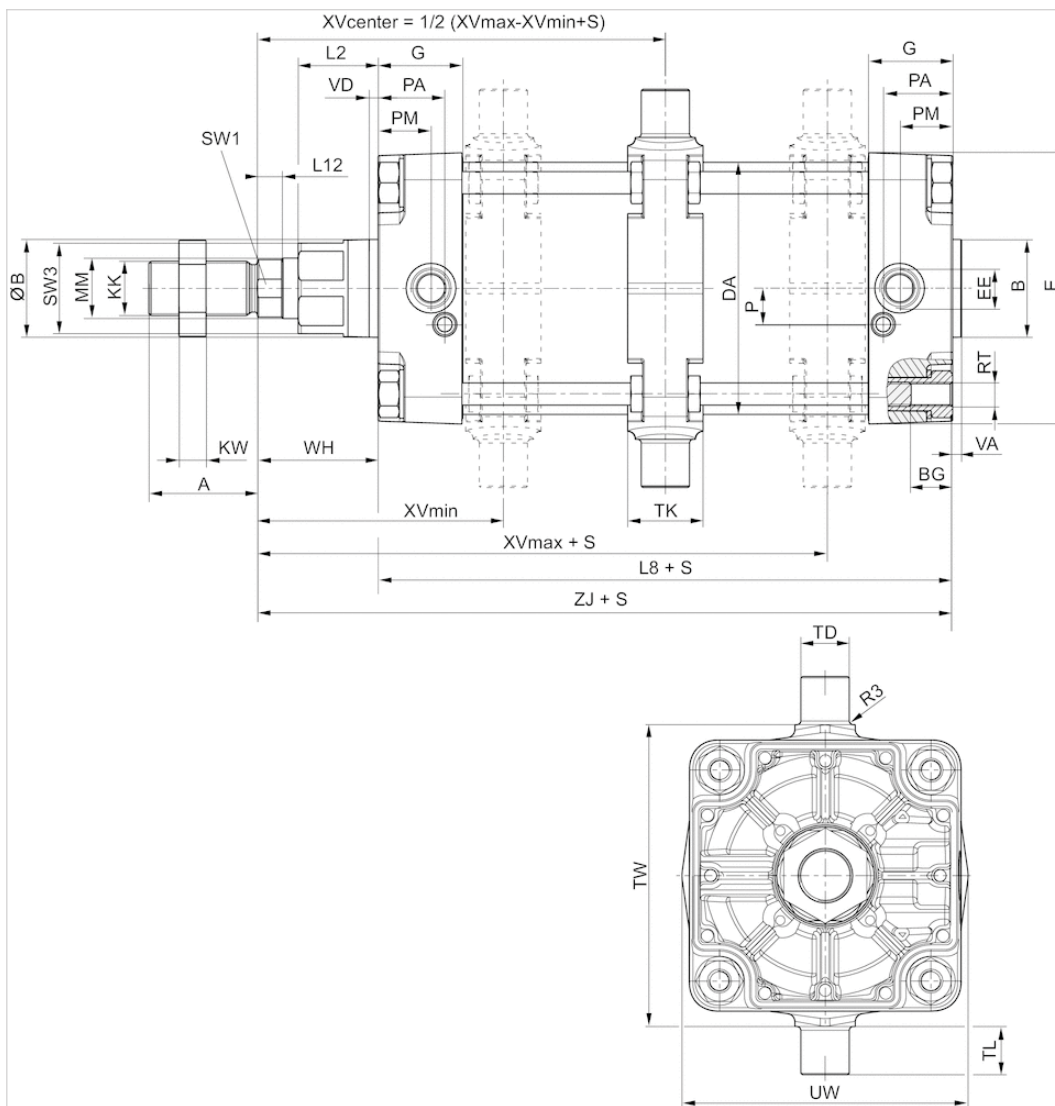
ATEX-certified cylinders with identification II 2G c IIB T4 / II 2D c IP65 T125°C X can be generated in the Internet configurator.

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
Trunnion mounting	Nodular graphite iron
Tie-rods	Stainless steel

Dimensions

Dimensions



S = stroke

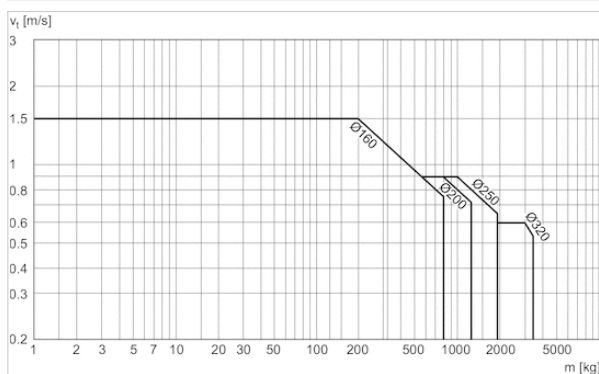
Dimensions

Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8	L12	MM	P	PA	PM	R3	RT	SW1	SW2	SW3
160 mm	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180	16	40	24	45	35	2.5	M16	36	27	60
200 mm	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180	16	40	22.5	42	30	2.5	M16	36	27	60
250 mm	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200	20	50	29	46	32.8	3	M20	46	41	80
320 mm	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220	23.25	63	30	48	37	3.2	M24	55	50	95

Piston Ø	TD e9	TG	TK	TL h14	TW h14	UW	VD	WH	XV min	XV max	ZJ
160 mm	32	140	50	32	200	190	6	80	163	177	260
200 mm	32	175	50	32	250	240	6	95	177	193	275
250 mm	40	220	60	40	320	310	31	105	195	215	305.3
320 mm	50	270	70	50	400	400	34	120	228	233	340.5

Diagrams

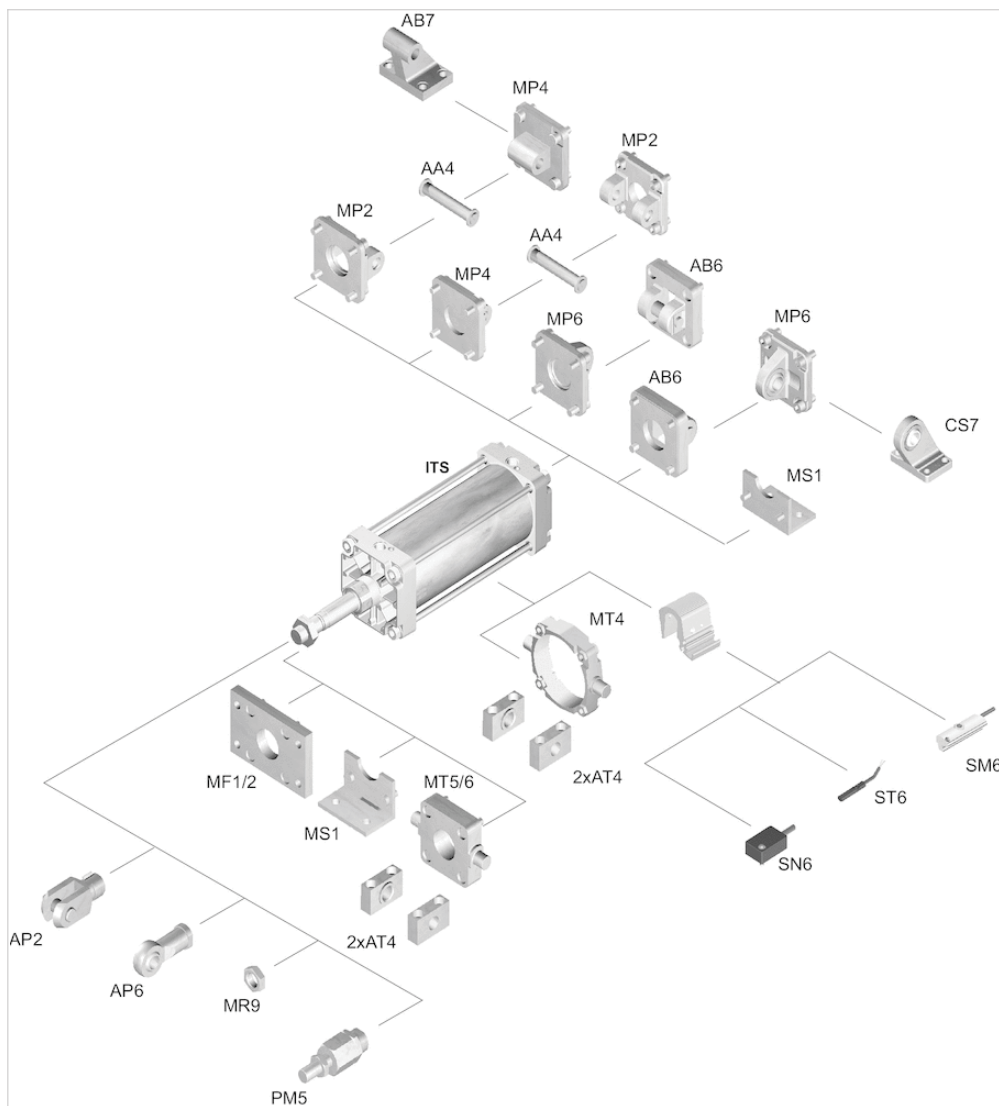
Cushioning diagram



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.