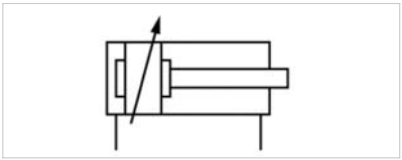
AVENTICS

Tie rod cylinder ISO 15552, Series ITS

- Ø 160-320 mm
- Ports G 3/4, G 1
- double-acting
- 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	R480627331	R480633348	R480627511	R480627523
50	R480627332	R480633346	R480627512	R480627524
80	R480627333	R480627405	R480627513	R480627525
100	R480627334	R480631340	R480627514	R480627526
125	R480627335	R480631542	R480627515	R480627527
160	R480627336	R480627408	R480627516	R480627528
200	R480627337	R480627409	R480627517	R480627529
250	R480627338	R480627410	R480627518	R480627530
320	R480627339	R480627411	R480627519	R480627531
400	R480627340	R480627412	R480627520	R480627532
500	R480627341	R480627413	R480627521	R480627533

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Technical data

Piston Ø	160 mm	200 mm	250 mm	320 mm
Retracting piston force	11875 N	19000 N	19000 N	48704 N
Extracting piston force	12667 N	19792 N	19792 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).

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

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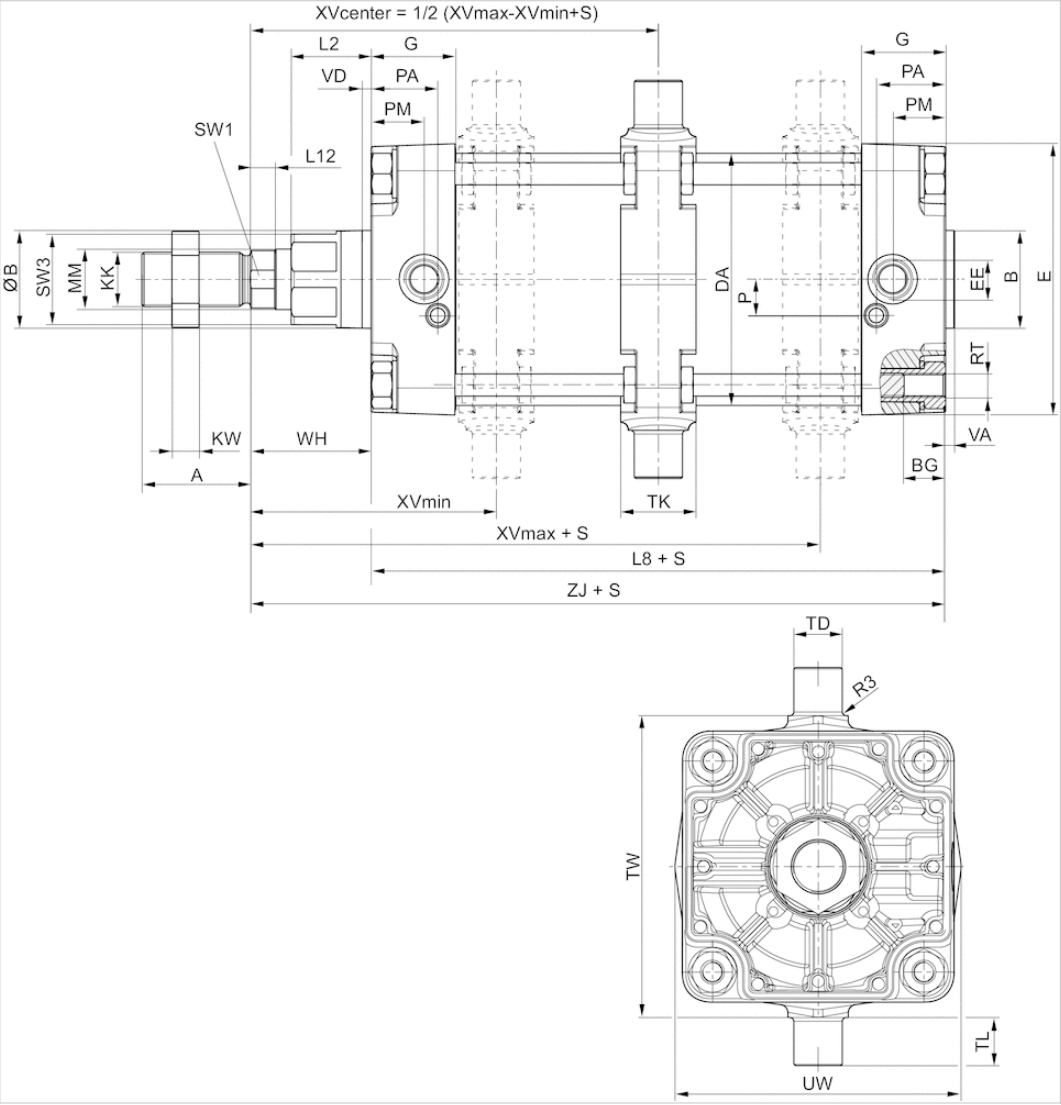
Dimensions

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
160 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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
200 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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
250 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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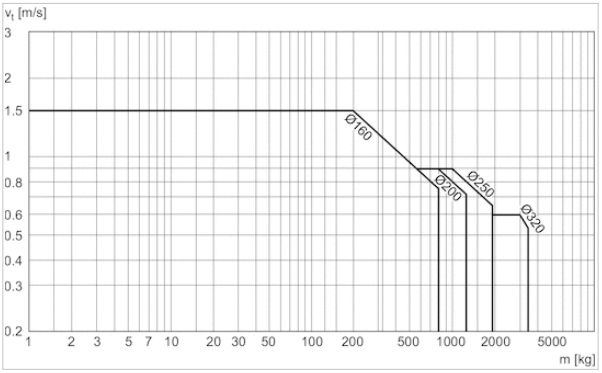
Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8	L12	MM	P	PA	PM	R3	RT	SW1	SW2	SW3
320 mm	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220	23.25	63	30	48	37	3.2	M24	55	50	95
320 mm	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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
160 mm	-	-	-	-	-	-	-	-	-	-	-
200 mm	32	175	50	32	250	240	6	95	177	193	275
200 mm	-	-	-	-	-	-	-	-	-	-	-
250 mm	40	220	60	40	320	310	31	105	195	215	305.3
250 mm	-	-	-	-	-	-	-	-	-	-	-
320 mm	50	270	70	50	400	400	34	120	228	233	340.5
320 mm	-	-	-	-	-	-	-	-	-	-	-

Diagrams

Cushioning diagram



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

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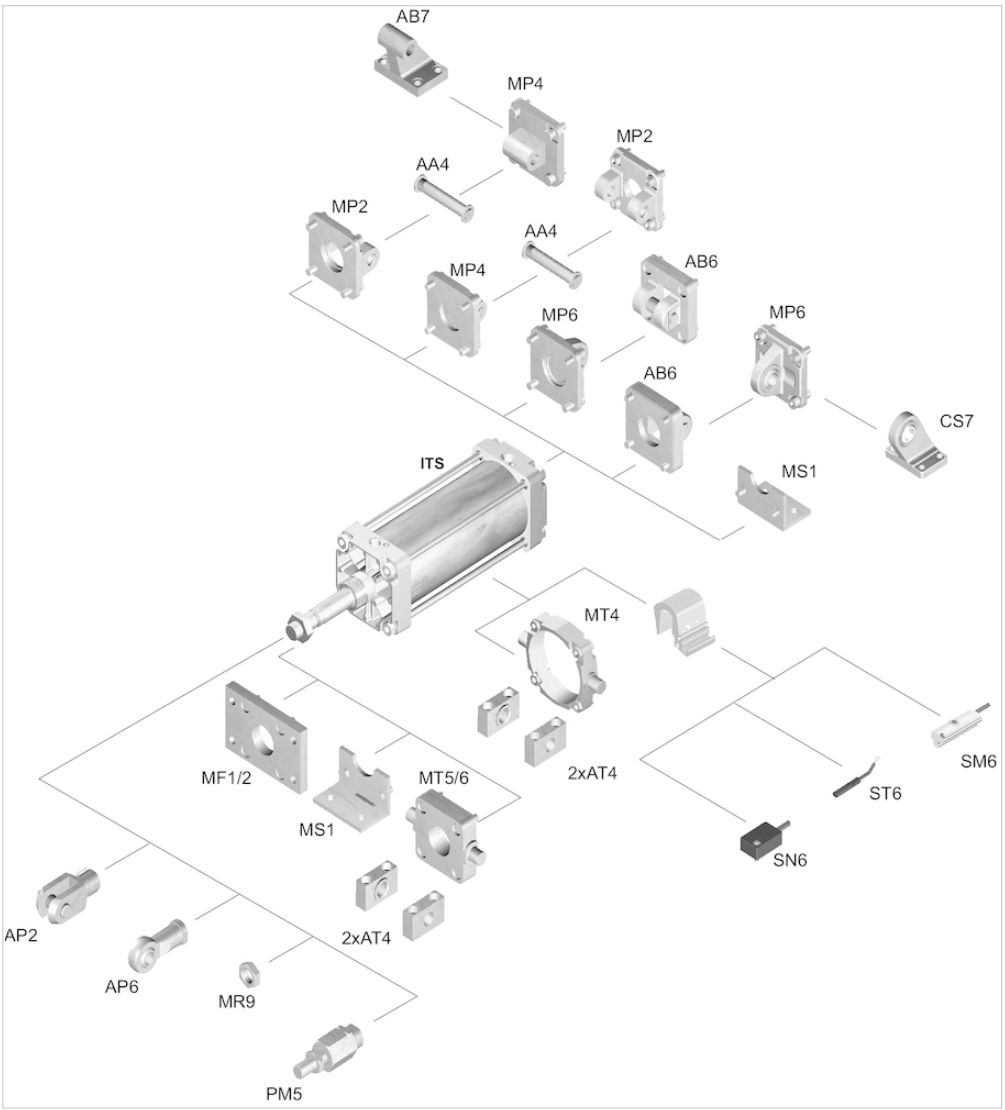
Accessories overview

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.