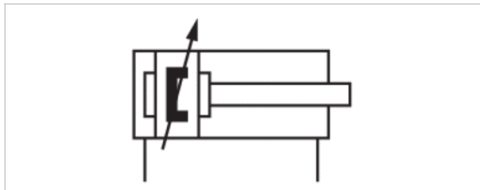


Tie rod cylinder ISO 15552, Series ITS

- Ø 160-320 mm
- Ports G 3/4 G 1
- double-acting
- with magnetic piston
- Cushioning Pneumatically adjustable
- Piston rod External thread
- Heat resistant



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-10 ... 120 °C
Medium temperature min./max.	-10 ... 120 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m ³
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	R480627619	R480627631	R480627643	R480627655
50	R480627620	R480627632	R480627644	R480627656
80	R480627621	R480627633	R480627645	R480627657
100	R480627622	R480627634	R480627646	R480627658
125	R480627623	R480627635	R480627647	R480627659
160	R480627624	R480627636	R480627648	R480627660
200	R480627625	R480627637	R480627649	R480627661
250	R480627626	R480627638	R480627650	R480627662
320	R480627627	R480627639	R480627651	R480627663
400	R480627628	R480627640	R480627652	R480627664
500	R480627629	R480627641	R480627653	R480627665

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	12,5 kg	15,67 kg	25,87 kg	46,89 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.

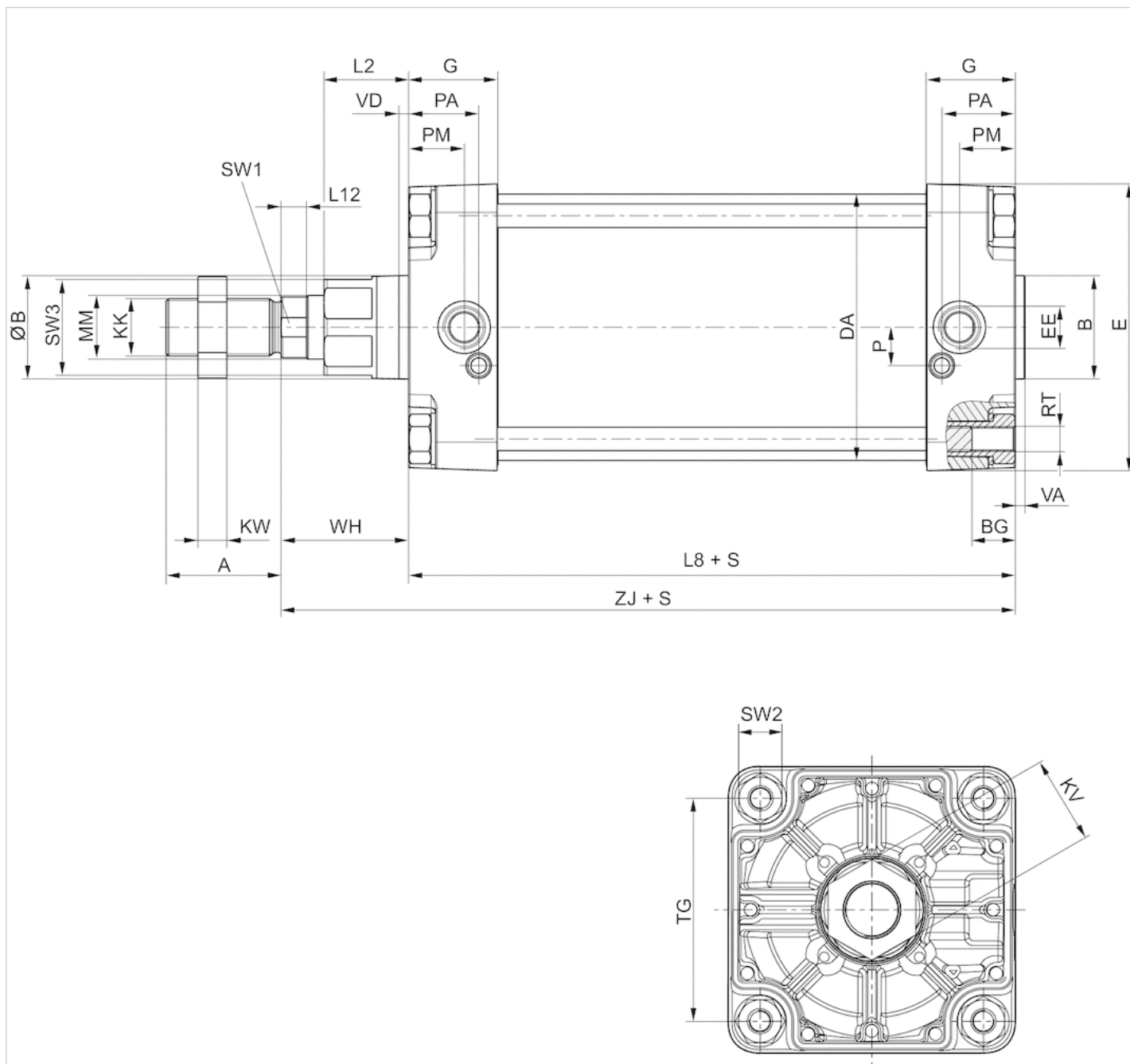
Use only the approved oils from AVENTICS. Further information can be found in the "Technical information" document (available in the MediaCentre).

Technical information

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

Dimensions

Dimensions



S = stroke

Dimensions

Piston \O	A	B	$\text{\O}B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8	L12	MM	P	PA	PM	RT
160 mm	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180	16	40	24	45	35	M16
200 mm	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180	16	40	22.5	42	30	M16
250 mm	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200	20	50	29	46	32.8	M20
320 mm	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220	23.25	63	30	48	37	M24

UK Office
5 Caulside Drive
Antrim
BT41 2DU
United Kingdom
+44 (0) 28 9448 1808

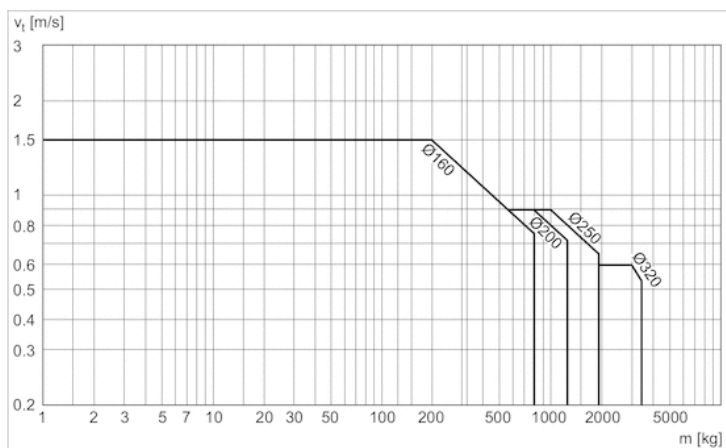
European Office
Unit 6, Saint Anthony's Business Park
Dublin
D22 VW95
Ireland
+353 (0) 1 4373653



Piston Ø	SW1	SW2	SW3	TG	VA	VD	WH	ZJ
160 mm	36	27	60	140	6	6	80	260
200 mm	36	27	60	175	6	6	95	275
250 mm	46	41	80	220	10	31	105	305.3
320 mm	55	50	95	270	10	34	120	340.5

Diagrams

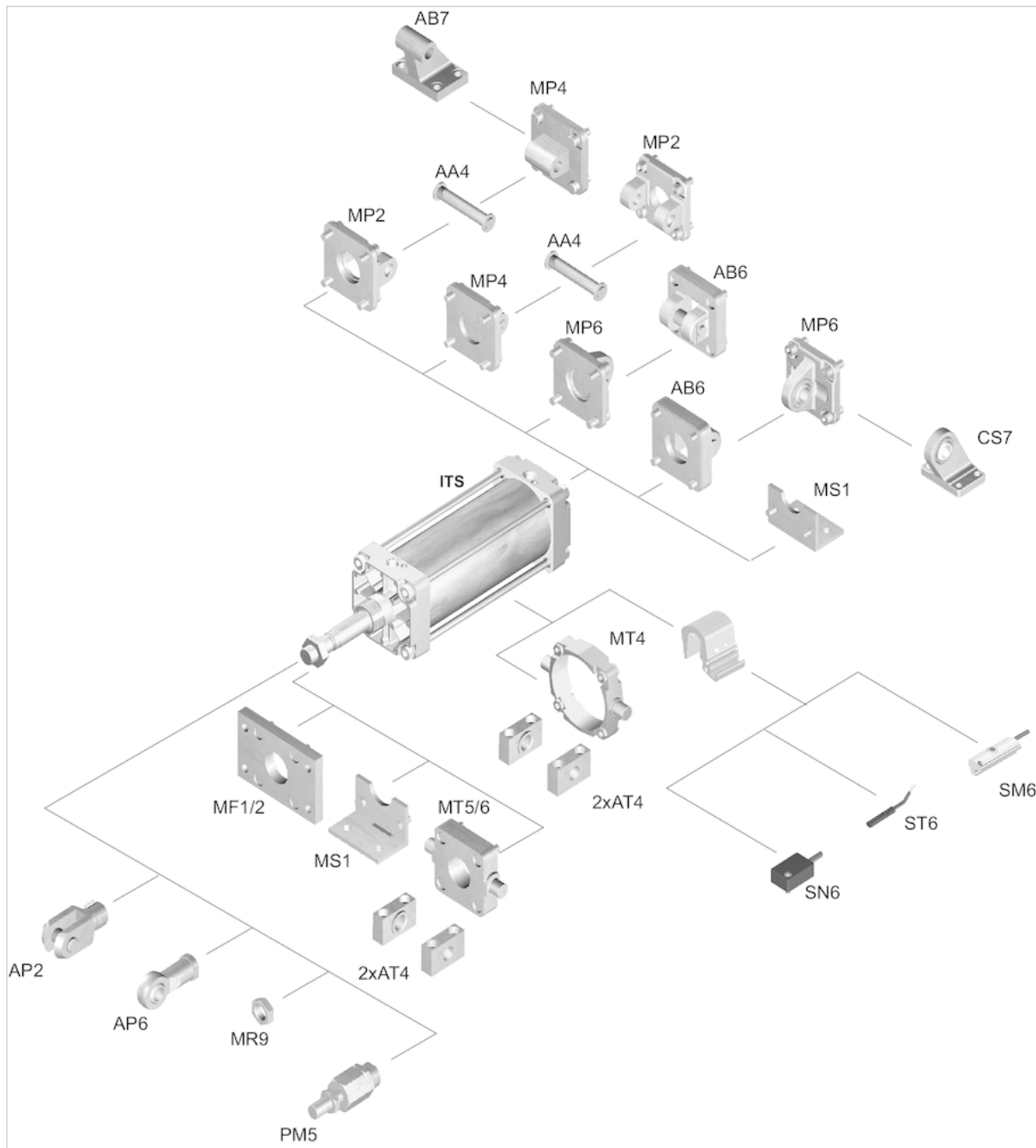
Cushioning diagram



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.