


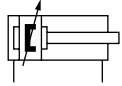

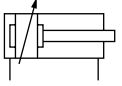





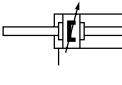

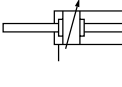

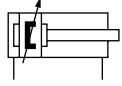

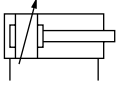

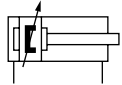

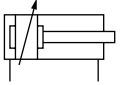
Piston rod cylinders ▶ Standard cylinders

## ISO 15552, series ITS

Brochure



## Piston rod cylinders ▶ Standard cylinders ISO 15552, series ITS

		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ ATEX optional</li> </ul>	8
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ ATEX optional</li> </ul>	12
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic, elastic ▶ Piston rod: external thread ▶ ATEX optional</li> </ul>	16
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: elastic ▶ Piston rod: external thread ▶ ATEX optional</li> </ul>	19
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional</li> </ul>	22
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional</li> </ul>	25
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional</li> </ul>	28
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional</li> </ul>	32
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ heat resistant</li> </ul>	36
		<p>Tie rod cylinder ISO 15552, Series ITS</p> <ul style="list-style-type: none"> <li>▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ heat resistant</li> </ul>	40









Piston rod cylinders ▶ Standard cylinders  
**ISO 15552, series ITS**

## Accessories












### Accessories overview

	Accessories overview	44
<b>Cylinder mountings</b>		
	Flange mounting, Series MF1, MF2	45
	Bearing block, Series CS7 ▶ Cylinder mounting in accordance with VDMA 24562 part 2	45
	Foot mounting, Series MS1	46
	Clevis mounting, Series AB6 ▶ Cylinder mounting in accordance with ISO 15552	47
	Rear eye, Series MP6 ▶ Cylinder mounting in accordance with ISO 15552 ▶ With ball joint and foot	48
	Clevis mounting, Series MP2 ▶ Cylinder mounting in accordance with ISO 15552	49
	Trunnion mounting, front or rear, Series MT5, MT6	49
	Bearing brackets MT4, MT5, MT6, Series AT4 ▶ Cylinder mounting in accordance with ISO 15552 ▶ for Series ITS	50
	Eye brackets	51











## Piston rod cylinders ▶ Standard cylinders ISO 15552, series ITS

	Bearing block, Series AB7 ▶ Cylinder mounting in accordance with ISO 15552	51
	Rear eye, Series MP4 ▶ Cylinder mounting in accordance with ISO 15552 ▶ for clevis mounting MP2 and AB3	52
	Bolts, AA4 ▶ Cylinder mounting in accordance with ISO 15552	53
<b>Piston rod mountings</b>		
	Nut for piston rod, Series MR9	54
	Rod clevis, Series AP2 ▶ galvanized steel	54
	Ball eye rod end with flange, Series AP6 ▶ galvanized steel	55
	Flexible spherical coupling, Series PM5	55
<b>Modular sealing system</b>		
	Series MSS ▶ Für Serie: ITS (Ø 160 - 320 mm)	57
<b>Sensors and sensor mountings, accessories</b>		
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 2-pin, open cable ends, 3-pin	59
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 3-pin ▶ ATEX certified	61




Piston rod cylinders ▶ Standard cylinders  
**ISO 15552, series ITS**

	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw	62
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw ▶ ATEX certified	64
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin	65
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw	67
	Sensor, Series ST6 ▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw ▶ ATEX certified	68
	Sensor, Series SN2 ▶ with cable ▶ without wire end ferrule, tin-plated, 2-pin, without wire end ferrule, tin-plated, 3-pin	69
	Sensor, Series SN2 ▶ Plug, M8, 2-pin, Plug, M8, 3-pin, Plug, M8, 4-pin	72
	Sensor, Series SN6 ▶ with cable ▶ without wire end ferrule, tin-plated, 2-pin ▶ heat resistant up to 120 °C	75
	Sensor, Series SN6 ▶ Plug, Form B, industry, 2-pin	76
	Sensor, Series SN6 ▶ Plug, Form B, industry, 2-pin ▶ ATEX certified	77
	Sensors, Series SM6-AL ▶ with cable ▶ Plug, M8x1, 4-pin ▶ with distance measuring sensor, measurement range 107 - 1007 mm ▶ IO-Link	78
	Sensor mounting, Series CB1 ▶ for Series ST6, SN2, SN6, SN1, SM6, SM6-AL ▶ to mount on cylinder C12P, ITS	80
	Connecting cable, Series CN2 ▶ Socket, M8, 3-pin, straight ▶ open cable ends, 3-pin	81

Piston rod cylinders ▶ Standard cylinders  
**ISO 15552, series ITS**

	Connecting cable, Series CN2 ▶ Socket, M8x1, 3-pin, angled ▶ open cable ends, 3-pin	82
	Socket, M8x1, Series CN2 ▶ Socket, M8x1, 3-pin	84
	Socket, M8x1, Series CN2 ▶ Socket, M8x1, 3-pin, angled	85
<b>Other accessories</b>		
	Compressed air tubing, Series TU1-S ▶ Ø 14 - 16 mm ▶ Max. working pressure at 20 °C: 10 bar ▶ Polyester polyurethane	87
	Compressed air tubing, Series TU1 ▶ Ø 14 - 16 mm ▶ Max. working pressure at 20 °C: 10 - 15 bar ▶ Polyamide	88
	Reducing nipple ▶ external thread ▶ G 1 ▶ Internal thread ▶ G 3/8 - G 3/4 ▶ FPT-S-RDZ	88
	Straight fitting ▶ G 3/4	89
	Banjo connection ▶ G 3/4 - G 1	90
	Silencers, Series SI1 ▶ Sintered bronze	91
	Series QR2-S standard	on line

Piston rod cylinders ▶ Standard cylinders  
**ISO 1552, series ITS**

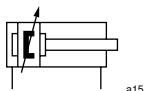
	<p>ISO 5599-1, size 4, series 581</p>	<p>on line</p>
	<p>Series CD12</p>	<p>on line</p>
	<p>Series 563, 565, 567</p>	<p>on line</p>

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ ATEX optional



21403



a15

Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

- 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, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

Piston Ø	[mm]	160	200	250	320	
Retracting piston force	[N]	11650	18640	29124	47778	
Extracting piston force	[N]	12436	19416	30337	49705	
Cushioning length	[mm]	50	50	64	55	
Cushioning energy	[J]	160	170	180	190	
Weight	0 mm stroke	[kg]	12.5	15.67	25.87	46.89
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.	[mm]	2700	2700	2500	2500	

	Piston Ø Piston rod thread Ports Piston rod Ø	160	200	250	320
		M36x2 G 3/4 40	M36x2 G 3/4 40	M42x2 G 1 50	M48x2 G 1 63
	Stroke 25	<b>R480627295</b>	R480627367	R480627451	R480627463
	50	<b>R480627296</b>	<b>R480627368</b>	R480627452	R480630857
	80	<b>R480627297</b>	R480627369	R480627453	R480627465
	100	<b>R480627298</b>	<b>R480627370</b>	R480627454	R480627466
	125	<b>R480627299</b>	<b>R480627371</b>	R480627455	R480627467
	160	<b>R480627300</b>	<b>R480627372</b>	R480627456	R480627468
	200	<b>R480627301</b>	<b>R480627373</b>	R480627457	R480627469
	250	<b>R480627302</b>	R480627374	R480627458	R480627470
	320	<b>R480627303</b>	<b>R480627375</b>	R480627459	R480627471
	400	<b>R480627304</b>	<b>R480627376</b>	R480627460	R480627472
	500	<b>R480627305</b>	R480627377	R480627461	R480627473



Piston rod cylinders ▶ Standard cylinders

## Tie rod cylinder ISO 15552, Series ITS

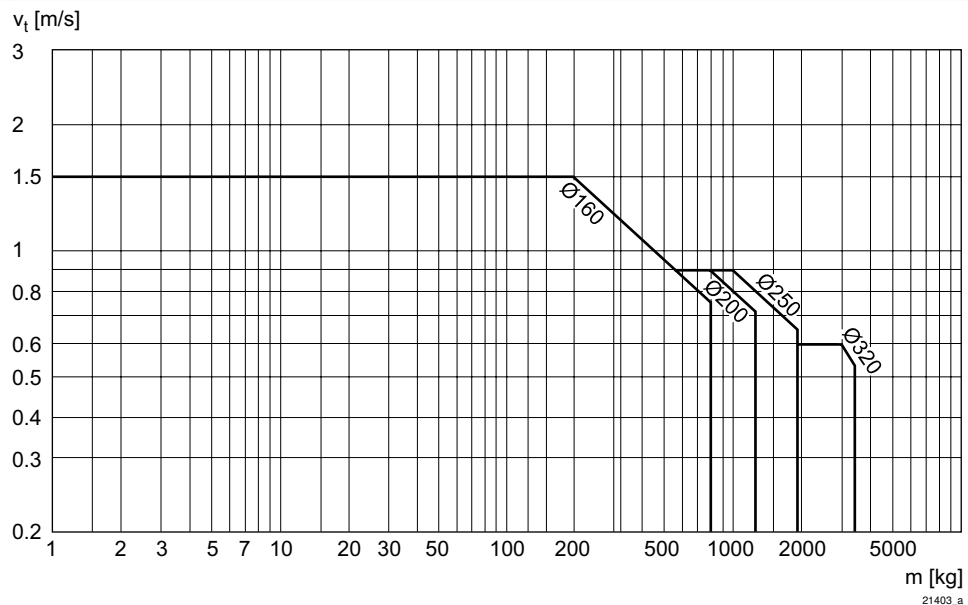
▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ ATEX optional

### Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

### Cushioning diagram



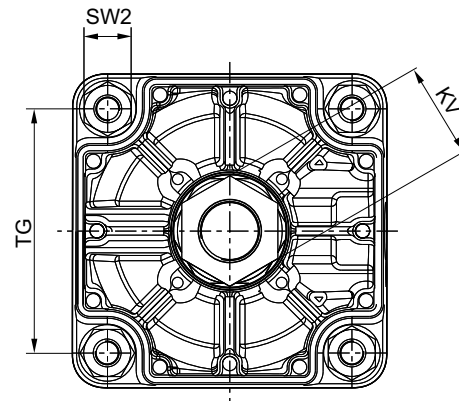
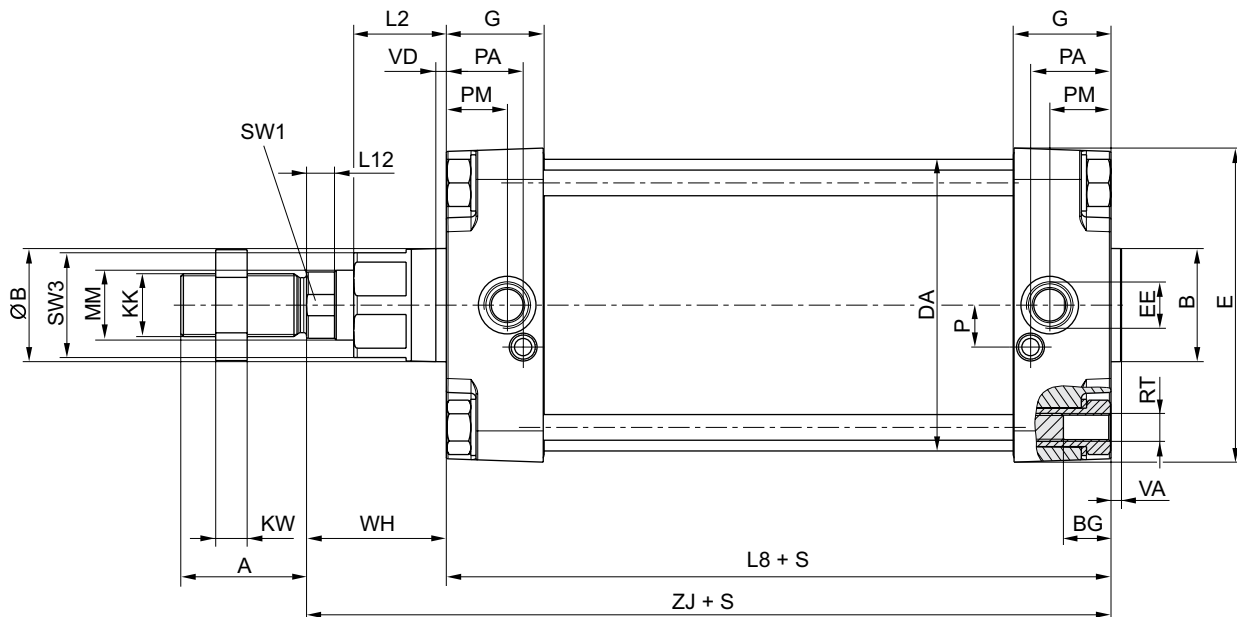
v = Piston velocity [m/s]  
m = Cushionable mass [kg]

21403\_a

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ ATEX optional

#### Dimensions



S = stroke

20467

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston $\varnothing$	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VA	VD	WH
160	16	40	24	45	35	M16	36	27	60	140	6	6	80
200	16	40	22.5	42	30	M16	36	27	60	175	6	6	95
250	20	50	29	46	32.8	M20	46	41	80	220	10	31	105
320	23.25	63	30	48	37	M24	55	50	95	270	10	34	120

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**

**Tie rod cylinder ISO 1552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ ATEX optional

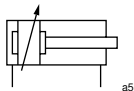
Piston Ø	ZJ												
160	260												
200	275												
250	305.3												
320	340.5												

## Tie rod cylinder ISO 15552, Series ITS

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread  
▶ ATEX optional



21403



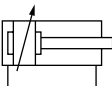
Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

## Technical Remarks

- 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, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X


Piston Ø	[mm]	160	200	250	320	
Retracting piston force	[N]	11650	18640	29124	47778	
Extracting piston force	[N]	12436	19416	30337	49705	
Cushioning length	[mm]	50	50	64	55	
Cushioning energy	[J]	160	170	180	190	
Weight	0 mm stroke	[kg]	12.5	15.67	25.87	46.89
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.	[mm]	2700	2700	2500	2500	

	Piston Ø Piston rod thread Ports Piston rod Ø	160	200	250	320
		M36x2 G 3/4 40	M36x2 G 3/4 40	M42x2 G 1 50	M48x2 G 1 63
	Stroke 25	R480627283	R480627355	R480627427	R480627439
	50	R480627284	R480627356	R480627428	R480627440
	80	R480627285	R480627357	R480627429	R480627441
	100	<b>R480627286</b>	R480627358	R480627430	R480627442
	125	R480627287	R480627359	R480627431	R480627443
	160	R480627288	R480627360	R480627432	R480627444
	200	R480627289	<b>R480627361</b>	R480627433	R480627445
	250	R480627290	R480627362	R480627434	R480627446
	320	R480627291	<b>R480627363</b>	R480627435	R480627447
	400	<b>R480627292</b>	R480627364	R480627436	R480627448
	500	<b>R480627293</b>	<b>R480627365</b>	<b>R480627437</b>	R480627449

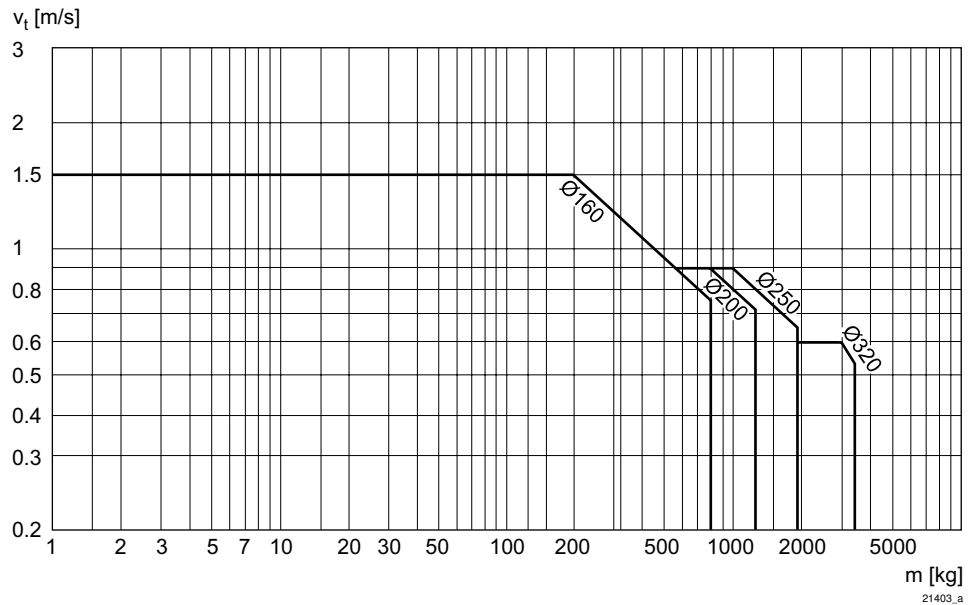
Piston rod cylinders ▶ Standard cylinders

**Tie rod cylinder ISO 15552, Series ITS**

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread
- ▶ ATEX optional

Configurable product	
	<p>This product is configurable. Please use our Internet configurator at <a href="http://www.aventics.com">http://www.aventics.com</a> or contact the nearest AVENTICS sales office.</p>

**Cushioning diagram**

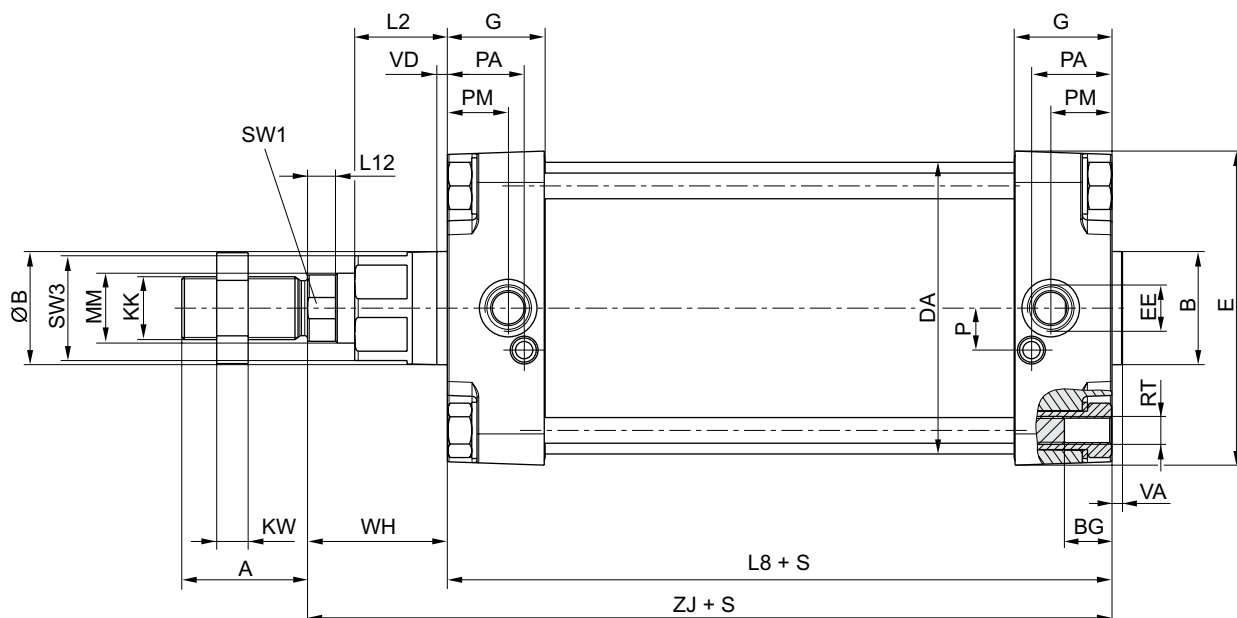


v = Piston velocity [m/s]  
 m = Cushionable mass [kg]

## Tie rod cylinder ISO 15552, Series ITS

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread
- ▶ ATEX optional

### Dimensions



20467

S = stroke

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston $\varnothing$	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VA	VD	WH
160	16	40	24	45	35	M16	36	27	60	140	6	6	80
200	16	40	22.5	42	30	M16	36	27	60	175	6	6	95
250	20	50	29	46	32.8	M20	46	41	80	220	10	31	105
320	23.25	63	30	48	37	M24	55	50	95	270	10	34	120

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**

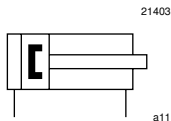
**Tie rod cylinder ISO 1552, Series ITS**

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread
- ▶ ATEX optional

Piston Ø	ZJ												
160	260												
200	275												
250	305.3												
320	340.5												

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic, elastic ▶ Piston rod: external thread ▶ ATEX optional



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

- 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, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

Piston Ø	[mm]	160	200	250	320	
Retracting piston force	[N]	11650	18640	29124	47778	
Extracting piston force	[N]	12436	19416	30337	49705	
Cushioning energy	[J]	10	15	24	39	
Weight	0 mm stroke	[kg]	12.5	15.67	25.87	46.89
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.	[mm]	2700	2700	2500	2500	

	Piston Ø Piston rod thread Ports Piston rod Ø	160	200	250	320
		M36x2 G 3/4 40	M36x2 G 3/4 40	M42x2 G 1 50	M48x2 G 1 63
	Stroke 25	R480635034	R480627583	R480627595	R480627607
	50	R480627572	R480627584	R480627596	R480627608
	80	R480627573	R480627585	R480627597	R480627609
	100	R480627574	R480627586	R480627598	R480627610
	125	R480627575	R480627587	R480627599	R480627611
	160	R480627576	R480627588	R480627600	R480627612
	200	R480635134	R480627589	R480627601	R480627613
	250	R480627578	R480627590	R480627602	R480627614
	320	R480627579	R480627591	R480627603	R480627615
	400	R480627580	R480627592	R480627604	R480627616
	500	R480627581	R480627593	R480627605	R480627617



## Piston rod cylinders ▶ Standard cylinders

### Tie rod cylinder ISO 15552, Series ITS

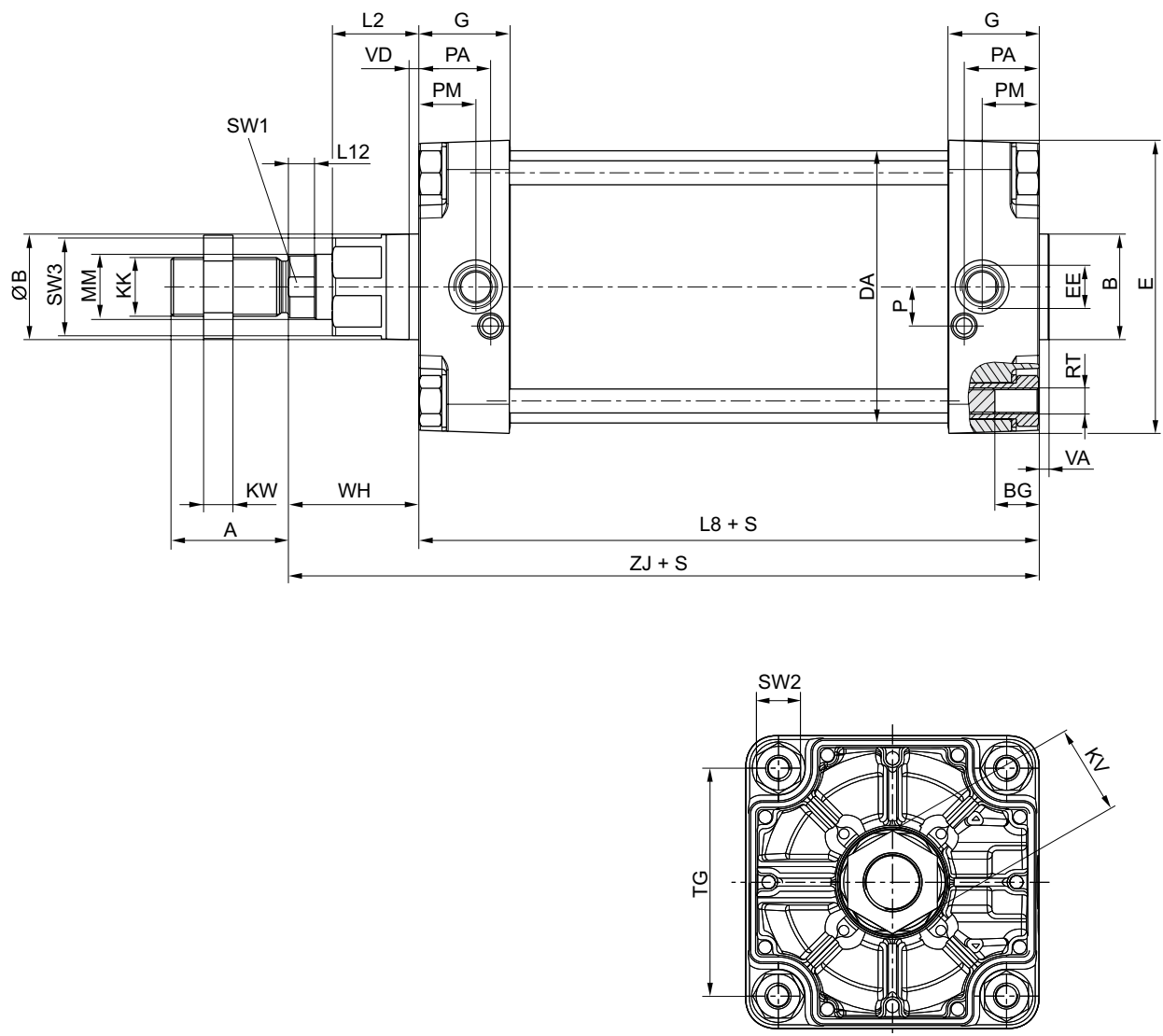
▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic, elastic ▶ Piston rod: external thread ▶ ATEX optional

#### Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

#### Dimensions



S = stroke

20467

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**
**Tie rod cylinder ISO 15552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic, elastic ▶ Piston rod: external thread ▶ ATEX optional

Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

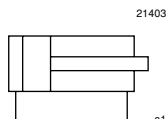
Piston Ø	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VA	VD	WH
160	16	40	24	45	35	M16	36	27	60	140	6	6	80
200	16	40	22.5	42	30	M16	36	27	60	175	6	6	95
250	20	50	29	46	32.8	M20	46	41	80	220	10	31	105
320	23.25	63	30	48	37	M24	55	50	95	270	10	34	120

Piston Ø	ZJ												
160	260												
200	275												
250	305.3												
320	340.5												

## Piston rod cylinders ▶ Standard cylinders

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: elastic ▶ Piston rod: external thread ▶ ATEX optional



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

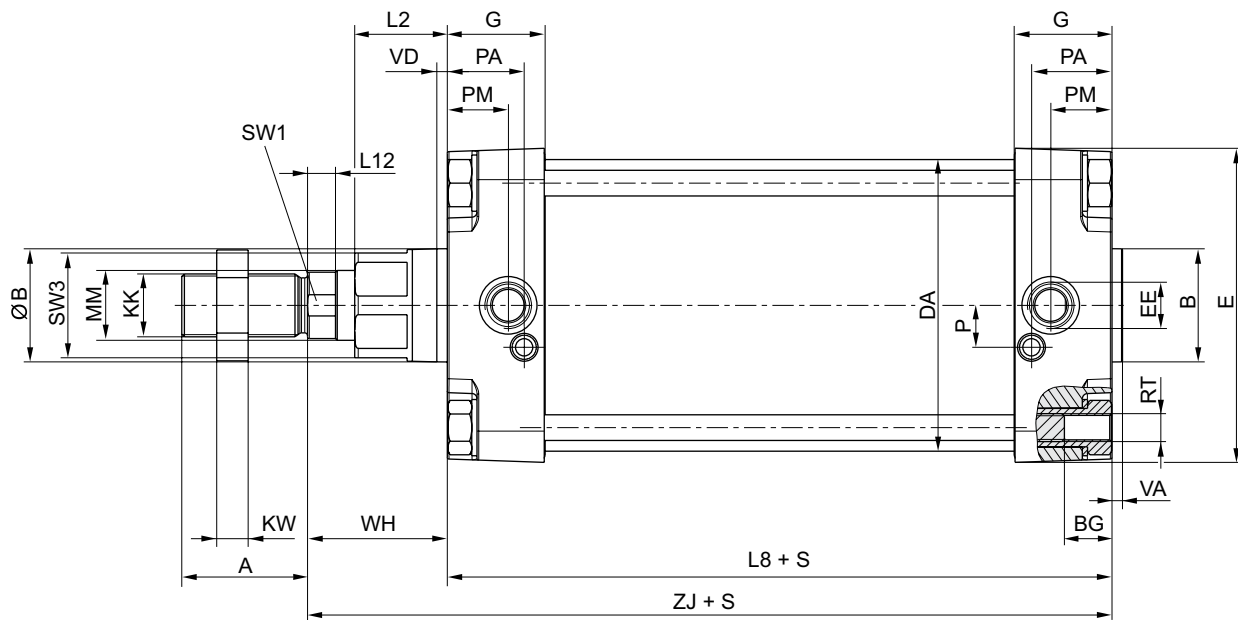
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

Piston Ø		[mm]	160	200	250	320
Retracting piston force		[N]	11650	18640	29124	47778
Extracting piston force		[N]	12436	19416	30337	49705
Cushioning energy		[J]	10	15	24	39
Weight	0 mm stroke	[kg]	12.5	15.67	25.87	46.89
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.		[mm]	2700	2700	2500	2500

	Piston Ø Piston rod thread Ports Piston rod Ø	160	200	250	320
		M36x2 G 3/4 40	M36x2 G 3/4 40	M42x2 G 1 50	M48x2 G 1 63
	Stroke 25	R480635020	<b>R480627679</b>	R480627691	R480627703
	50	R480627668	R480627680	R480627692	R480627704
	80	R480627669	R480627681	R480627693	R480627705
	100	R480627670	R480627682	R480627694	R480627706
	125	R480627671	R480627683	R480627695	R480627707
	160	R480627672	R480627684	R480627696	R480627708
	200	R480627673	R480627685	R480627697	R480627709
	250	R480627674	R480627686	R480627698	R480627710
	320	R480627675	R480627687	R480627699	R480627711
	400	R480627676	R480627688	R480627700	R480627712
	500	R480627677	R480627689	R480627701	R480627713

**Tie rod cylinder ISO 15552, Series ITS**
**▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: elastic ▶ Piston rod: external thread ▶ ATEX optional**
**Configurable product**


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

**Dimensions**


20467

S = stroke

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**
**Tie rod cylinder ISO 15552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: elastic ▶ Piston rod: external thread ▶ ATEX optional

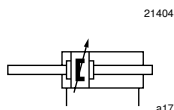
Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston Ø	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VA	VD	WH
160	16	40	24	45	35	M16	36	27	60	140	6	6	80
200	16	40	22.5	42	30	M16	36	27	60	175	6	6	95
250	20	50	29	46	32.8	M20	46	41	80	220	10	31	105
320	23.25	63	30	48	37	M24	55	50	95	270	10	34	120

Piston Ø	ZJ												
160	260												
200	275												
250	305.3												
320	340.5												

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

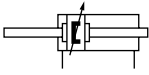
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

Piston Ø	[mm]	160	200	250	320
Retracting piston force	[N]	11650	18640	29124	47778
Extracting piston force	[N]	11650	18640	29124	47778
Cushioning length	[mm]	50	50	64	55
Cushioning energy	[J]	160	170	180	190
Weight	0 mm stroke	14.44	17.93	28.46	51.23
	+10 mm stroke	0.42	0.42	0.76	1.22
Stroke max.	[mm]	2700	2700	2500	2500

Piston rod cylinders ▶ Standard cylinders

## Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional

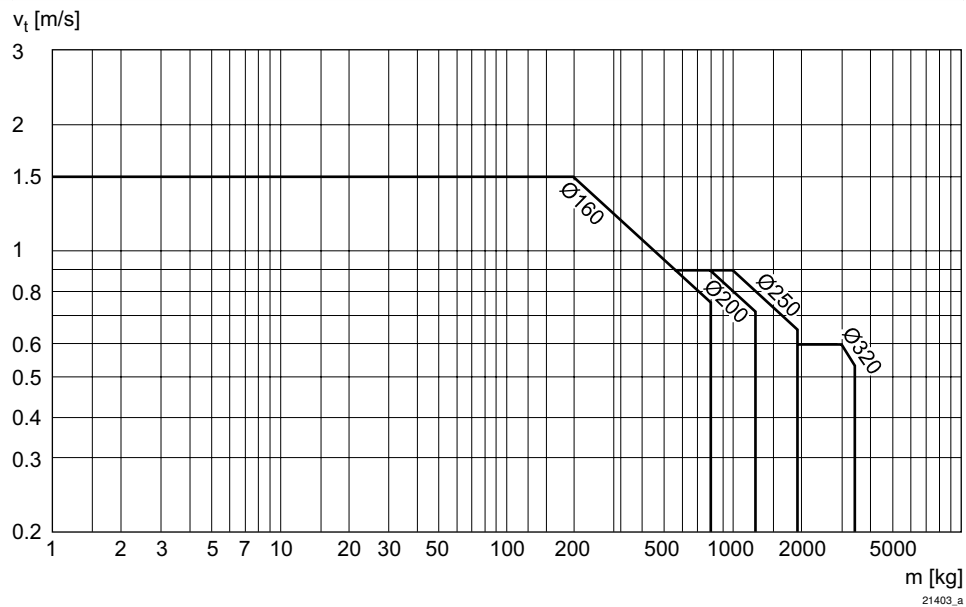
	Piston Ø Piston rod thread Ports Piston rod Ø	160 M36x2 G 3/4 40	200 M36x2 G 3/4 40	250 M42x2 G 1 50	320 M48x2 G 1 63
	Stroke 10	R480627318	R480627390	R480627486	R480632135
	25	R480632697	R480627391	R480627487	R480627499
	50	R480627320	R480627392	R480627488	R480627500
	80	R480627321	R480627393	R480627489	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

### Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

### Cushioning diagram

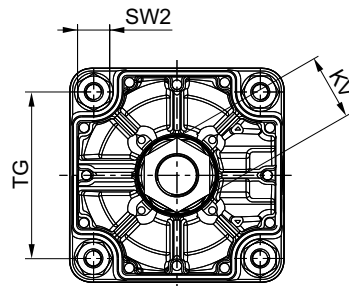
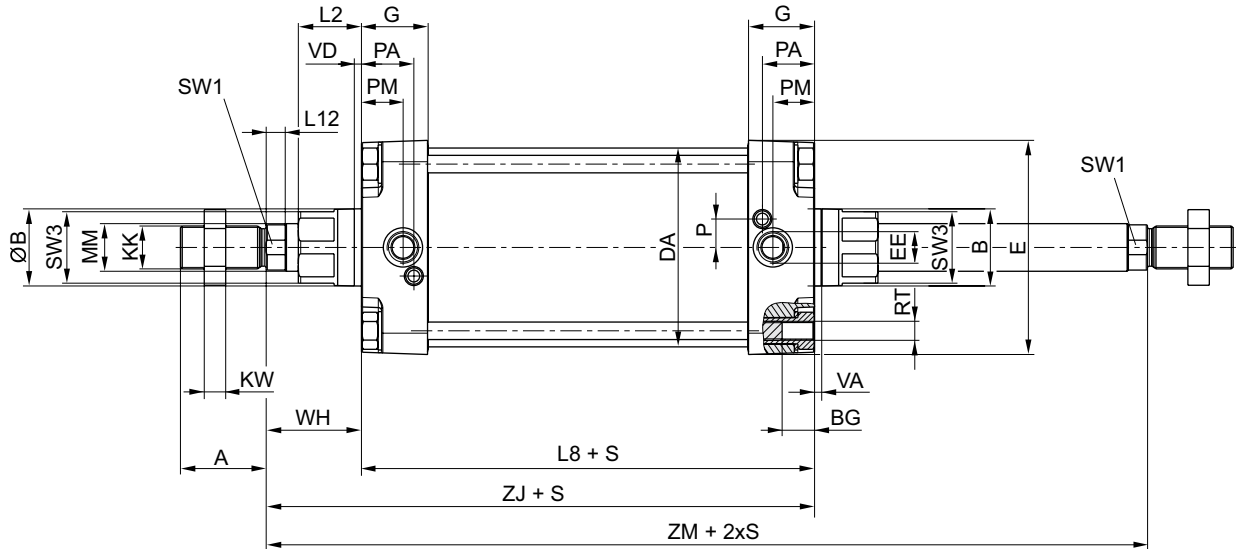


v = Piston velocity [m/s]  
m = Cushionable mass [kg]

## Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional

### Dimensions



S = stroke

20469

Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston Ø	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VD	WH	ZJ
160	16	40	24	45	35	M16	36	27	60	140	6	80	260
200	16	40	22.5	42	30	M16	36	27	60	175	6	95	275
250	20	50	29	46	32.8	M20	46	41	80	220	31	105	305.3
320	23.25	63	30	48	37	M24	55	50	95	270	34	120	340.5

Piston Ø	ZM												
160	340												
200	370												
250	411												
320	462												

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

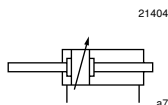
Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change



## Piston rod cylinders ▶ Standard cylinders

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

- 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, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

Piston Ø	[mm]	160	200	250	320	
Retracting piston force	[N]	11650	18640	29124	47778	
Extracting piston force	[N]	11650	18640	29124	47778	
Cushioning length	[mm]	50	50	64	55	
Cushioning energy	[J]	160	170	180	190	
Weight	0 mm stroke	[kg]	14.44	17.93	28.46	51.23
	+10 mm stroke	[kg]	0.42	0.42	0.76	1.22
Stroke max.	[mm]	1000	1000	1000	1000	

	Piston Ø Piston rod thread Ports Piston rod Ø	160 M36x2 G 3/4 40	200 M36x2 G 3/4 40	250 M42x2 G 1 50	320 M48x2 G 1 63
	Stroke 25	<b>R480627715</b>	<b>R480627727</b>	<b>R480627739</b>	<b>R480627751</b>
	50	<b>R480627716</b>	<b>R480627728</b>	<b>R480627740</b>	<b>R480627752</b>
	80	<b>R480635557</b>	<b>R480635566</b>	<b>R480627741</b>	<b>R480627753</b>
	100	<b>R480627718</b>	<b>R480627730</b>	<b>R480627742</b>	<b>R480627754</b>
	125	<b>R480635556</b>	<b>R480627731</b>	<b>R480627743</b>	<b>R480627755</b>
	160	<b>R480627720</b>	<b>R480627732</b>	<b>R480627744</b>	<b>R480627756</b>
	200	<b>R480627721</b>	<b>R480627733</b>	<b>R480627745</b>	<b>R480627757</b>
	250	<b>R480627722</b>	<b>R480627734</b>	<b>R480627746</b>	<b>R480627758</b>
	320	<b>R480627723</b>	<b>R480635572</b>	<b>R480627747</b>	<b>R480627759</b>
	400	<b>R480627724</b>	<b>R480627736</b>	<b>R480627748</b>	<b>R480627760</b>
	500	<b>R480627725</b>	<b>R480627737</b>	<b>R480627749</b>	<b>R480627761</b>

### Tie rod cylinder ISO 1552, Series ITS

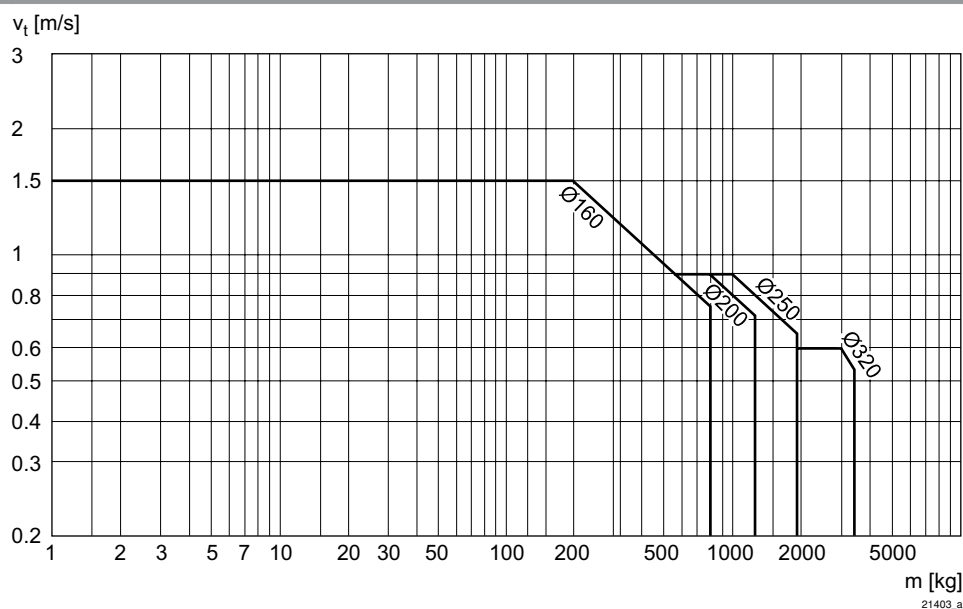
▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional

#### Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

#### Cushioning diagram



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

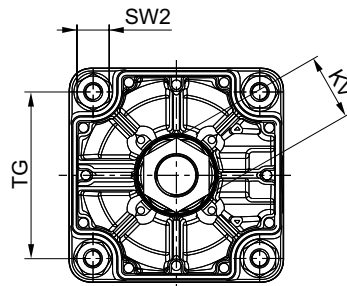
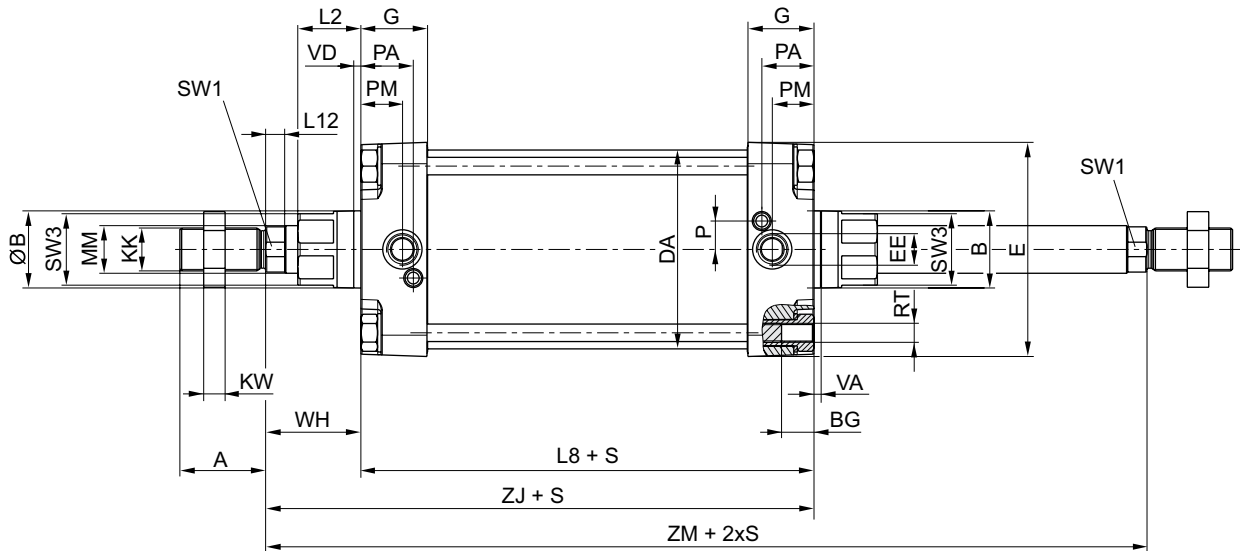
21403\_a

## Piston rod cylinders ▶ Standard cylinders

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread, through ▶ ATEX optional

#### Dimensions



S = stroke

20469

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston $\varnothing$	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VD	WH	ZJ
160	16	40	24	45	35	M16	36	27	60	140	6	80	260
200	16	40	22.5	42	30	M16	36	27	60	175	6	95	275
250	20	50	29	46	32.8	M20	46	41	80	220	31	105	305.3
320	23.25	63	30	48	37	M24	55	50	95	270	34	120	340.5

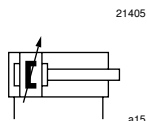
Piston $\varnothing$	ZM												
160	340												
200	370												
250	411												
320	462												

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

### Tie rod cylinder ISO 15552, Series ITS

▶ 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 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 μm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

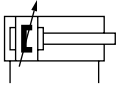
- The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- Clamping piece for magnetic field sensor necessary
- The trunnion mounting is positioned in the center at the factory and can be adjusted later.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

Piston Ø		[mm]	160	200	250	320
Retracting piston force		[N]	11650	18640	29124	47778
Extracting piston force		[N]	12436	19416	30337	49705
Cushioning length		[mm]	50	50	64	55
Cushioning energy		[J]	160	170	180	190
Weight	0 mm stroke	[kg]	15.67	20.25	34.98	82.49
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.		[mm]	2700	2700	2500	2500

Piston rod cylinders ▶ Standard cylinders

## Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional

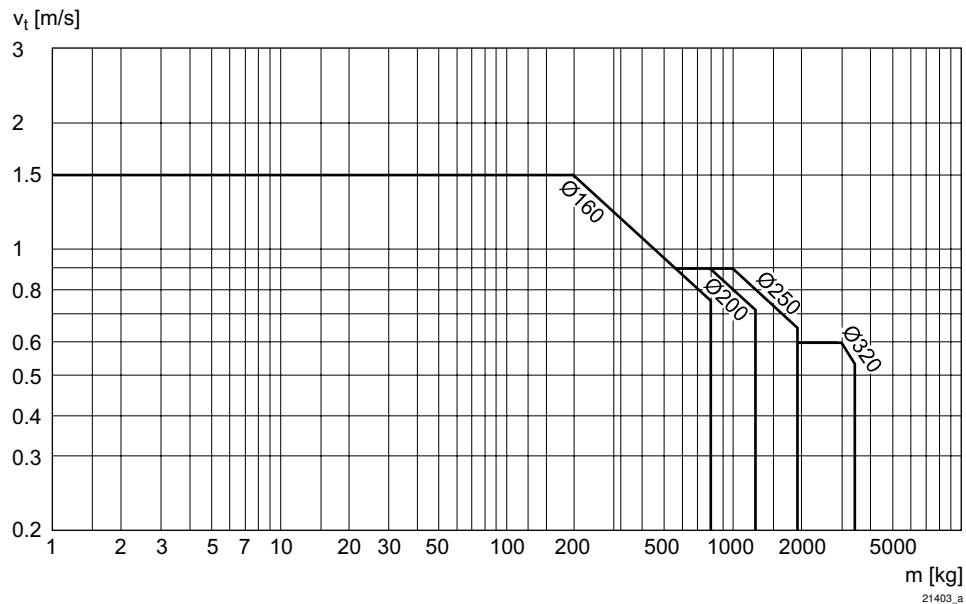
Piston Ø Piston rod thread Ports Piston rod Ø	160	200	250	320	
	M36x2 G 3/4 40	M36x2 G 3/4 40	M42x2 G 1 50	M48x2 G 1 63	
	Stroke 25	R480627343	R480627415	R480627535	R480627547
	50	R480627344	R480627416	R480627536	R480627548
	80	R480627345	R480627417	R480627537	R480627549
	100	R480627346	R480627418	R480627538	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

### Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

### Cushioning diagram

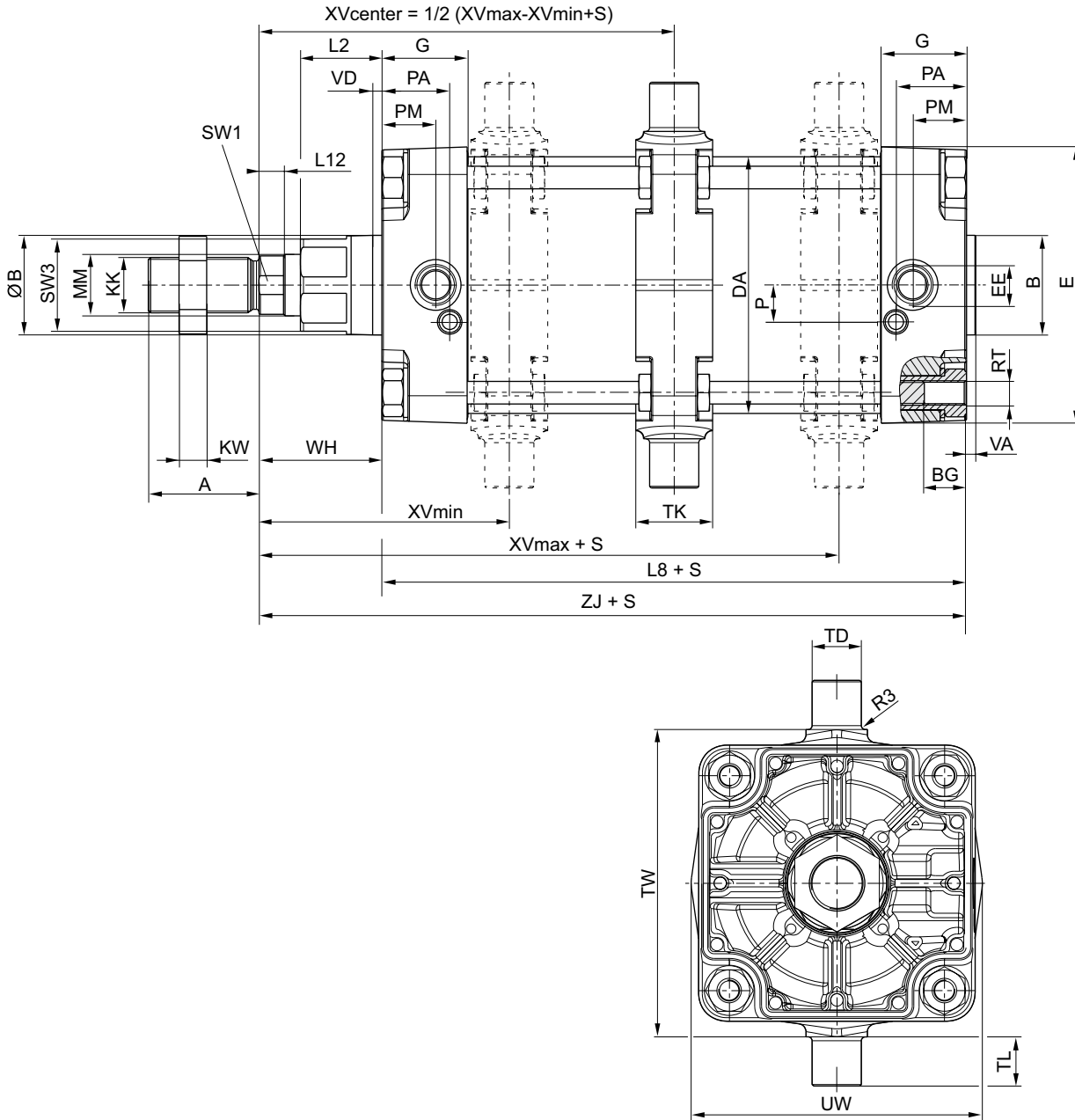


v = Piston velocity [m/s]  
m = Cushionable mass [kg]

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional

#### Dimensions



S = stroke

20468

Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston Ø	L12	MM	P	PA	PM	R3	RT	SW1	SW2	SW3	TD e9	TG	TK
160	16	40	24	45	35	2.5	M16	36	27	60	32	140	50

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**
**Tie rod cylinder ISO 15552, Series ITS**

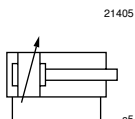
▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional

Piston Ø	L12	MM	P	PA	PM	R3	RT	SW1	SW2	SW3	TD e9	TG	TK
200	16	40	22.5	42	30	2.5	M16	36	27	60	32	175	50
250	20	50	29	46	32.8	3	M20	46	41	80	40	220	60
320	23.25	63	30	48	37	3.2	M24	55	50	95	50	270	70

Piston Ø	TL h14	TW h14	UW	VD	WH	XV min	XV max	ZJ					
160	32	200	190	6	80	163	177	260					
200	32	250	240	6	95	177	193	275					
250	40	320	310	31	105	195	215	305.3					
320	50	400	400	34	120	228	233	340.5					

### Tie rod cylinder ISO 15552, Series ITS

▶ 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 bar / 10 bar
Ambient temperature min./max.	-20 °C / +80 °C
Medium temperature min./max.	-20 °C / +80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

Materials:	
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

#### Technical Remarks

- 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, see chapter „Technical information“.
- The trunnion mounting is positioned in the center at the factory and can be adjusted later.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X

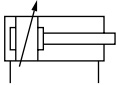
Piston Ø	[mm]	160	200	250	320
Retracting piston force	[N]	11650	18640	29124	47778
Extracting piston force	[N]	12436	19416	30337	49705
Cushioning length	[mm]	50	50	64	55
Cushioning energy	[J]	160	170	180	190
Weight	0 mm stroke	15.67	20.25	34.98	82.49
	+10 mm stroke	[kg]	0.21	0.21	0.38
Stroke max.	[mm]	2700	2700	2500	2500



Piston rod cylinders ▶ Standard cylinders

## Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional

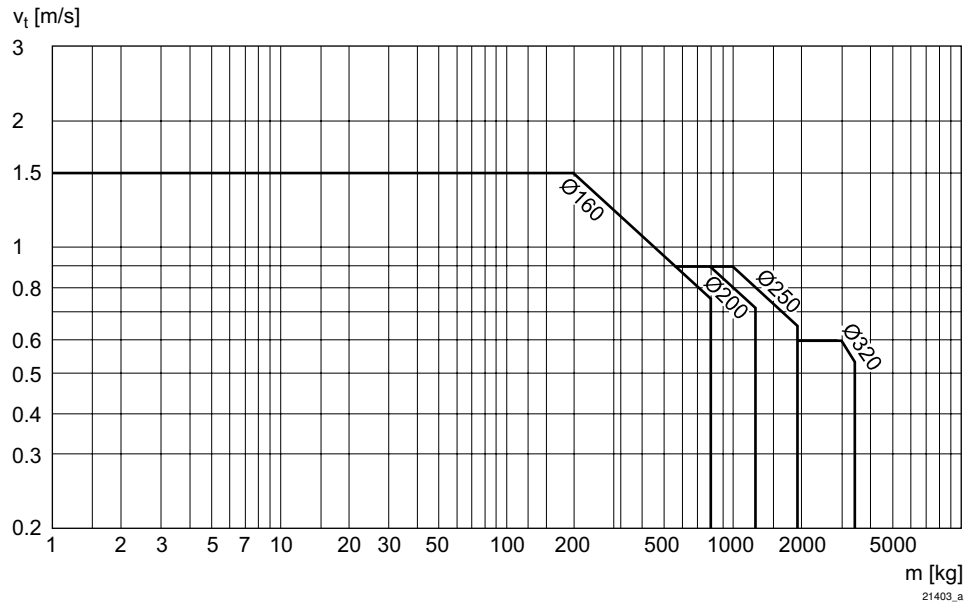
	Piston Ø Piston rod thread Ports Piston rod Ø	160 M36x2 G 3/4 40	200 M36x2 G 3/4 40	250 M42x2 G 1 50	320 M48x2 G 1 63
	Stroke 25	R480627331	R480633348	R480627511	R480627523
	50	R480627332	R480633346	R480627512	R480627524
	80	R480627333	R480627405	R480627513	R480627525
	100	R480627334	R480631340	R480627514	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

### Configurable product



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

### Cushioning diagram

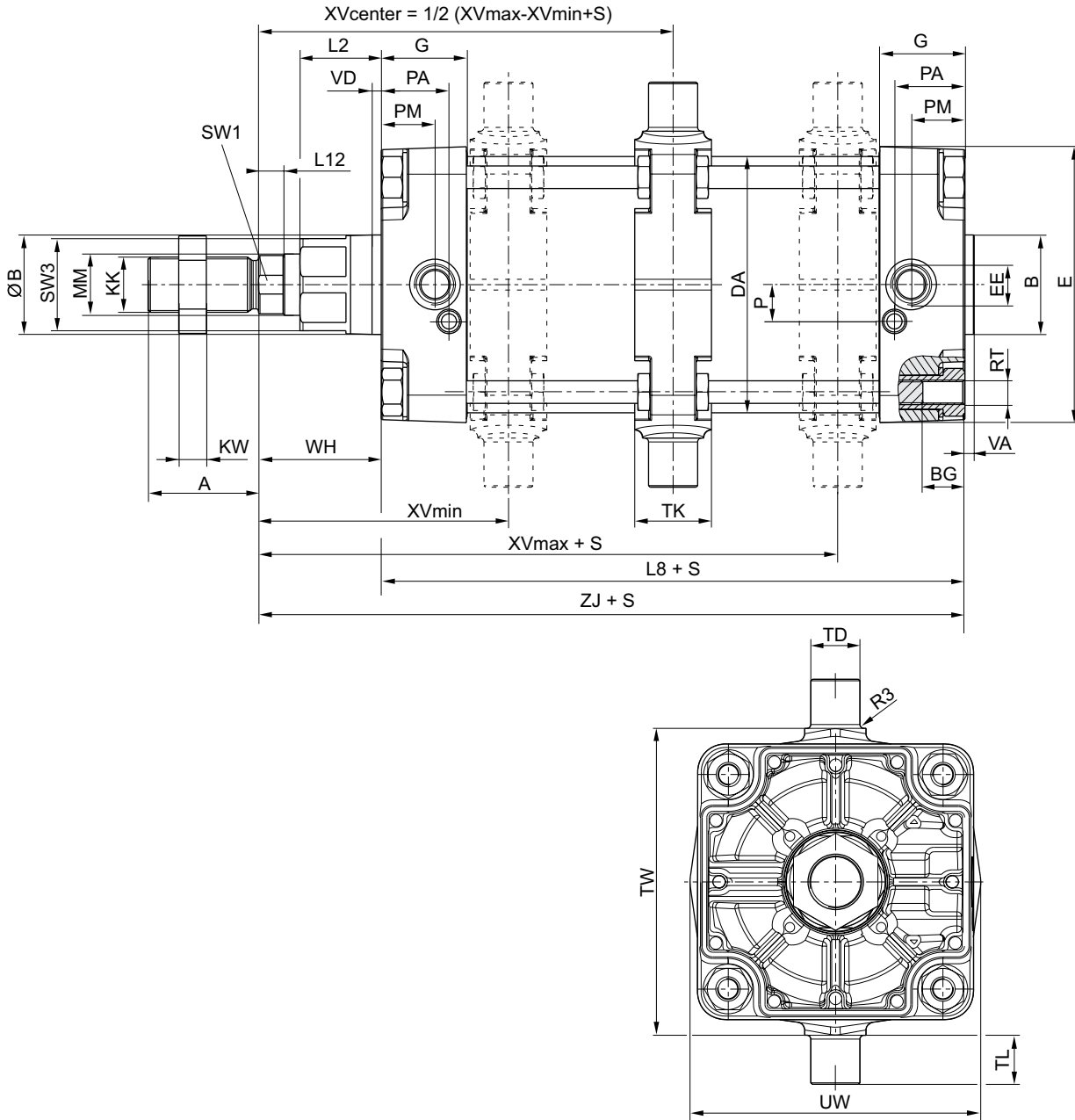


v = Piston velocity [m/s]  
m = Cushionable mass [kg]

**Tie rod cylinder ISO 15552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional

**Dimensions**



S = stroke

20468

Piston Ø	A	B	ØB	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston Ø	L12	MM	P	PA	PM	R3	RT	SW1	SW2	SW3	TD e9	TG	TK
160	16	40	24	45	35	2.5	M16	36	27	60	32	140	50

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information  
 Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**
**Tie rod cylinder ISO 15552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ with trunnion mounting ▶ Piston rod: external thread ▶ ATEX optional

Piston Ø	L12	MM	P	PA	PM	R3	RT	SW1	SW2	SW3	TD e9	TG	TK
200	16	40	22.5	42	30	2.5	M16	36	27	60	32	175	50
250	20	50	29	46	32.8	3	M20	46	41	80	40	220	60
320	23.25	63	30	48	37	3.2	M24	55	50	95	50	270	70

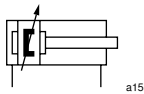
Piston Ø	TL h14	TW h14	UW	VD	WH	XV min	XV max	ZJ					
160	32	200	190	6	80	163	177	260					
200	32	250	240	6	95	177	193	275					
250	40	320	310	31	105	195	215	305.3					
320	50	400	400	34	120	228	233	340.5					

### Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ heat resistant



21403



a15

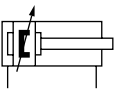
Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-10°C / +120°C
Medium temperature min./max.	-10°C / +120°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m <sup>3</sup> - 5 mg/m <sup>3</sup>
Pressure for determining piston forces	6,3 bar

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

#### Technical Remarks

- 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, see chapter „Technical information“.


Piston Ø	[mm]	160	200	250	320	
Retracting piston force	[N]	11650	18640	29124	47778	
Extracting piston force	[N]	12436	19416	30337	49705	
Cushioning length	[mm]	50	50	64	55	
Cushioning energy	[J]	160	170	180	190	
Weight	0 mm stroke	[kg]	12.5	15.67	25.87	46.89
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.	[mm]	2700	2700	2500	2500	

	Piston Ø	160	200	250	320
	Piston rod thread	M36x2	M36x2	M42x2	M48x2
	Ports	G 3/4	G 3/4	G 1	G 1
	Piston rod Ø	40	40	50	63
	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

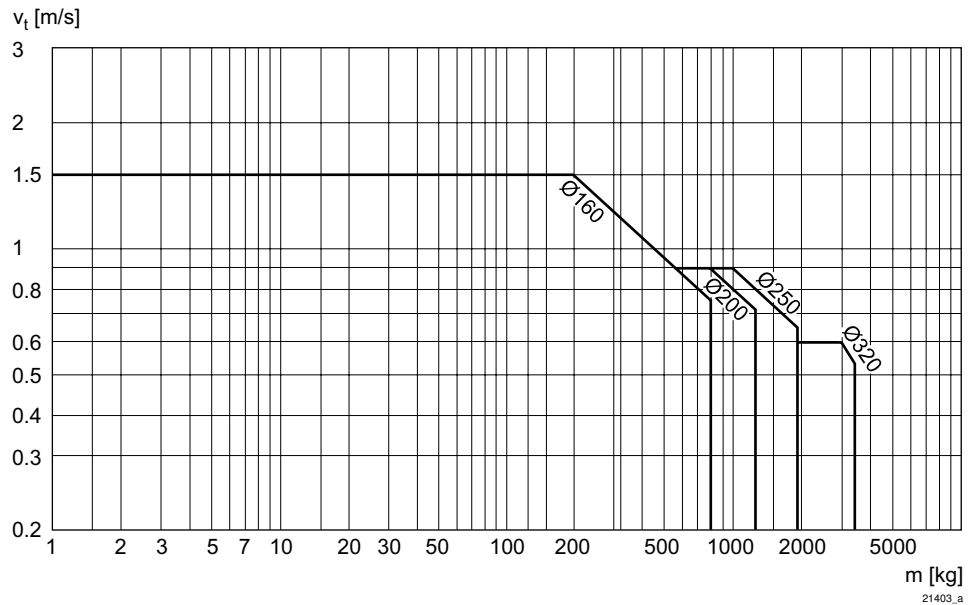
Piston rod cylinders ▶ Standard cylinders

**Tie rod cylinder ISO 15552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ heat resistant

Configurable product	
	<p>This product is configurable. Please use our Internet configurator at <a href="http://www.aventics.com">http://www.aventics.com</a> or contact the nearest AVENTICS sales office.</p>

**Cushioning diagram**

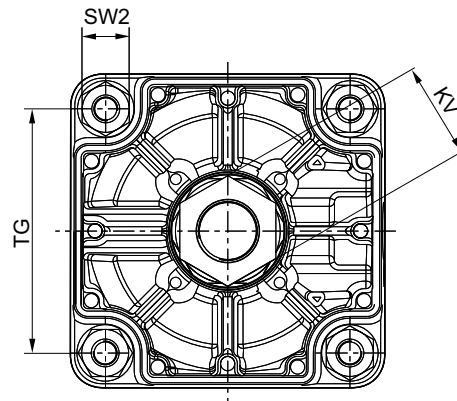
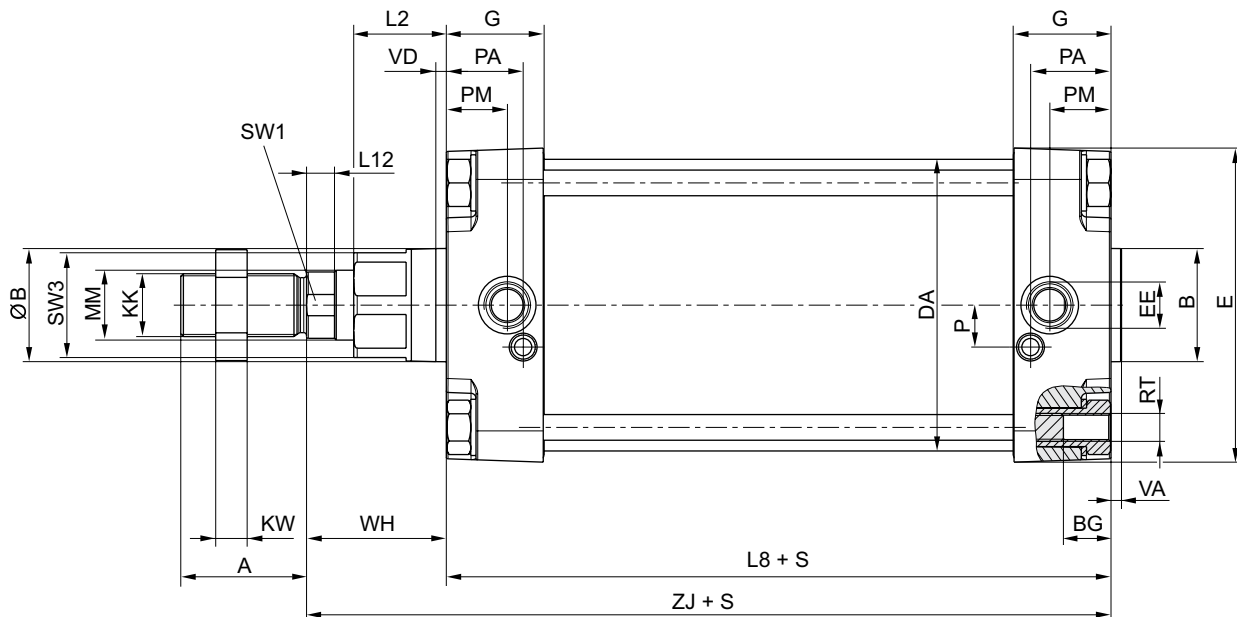


v = Piston velocity [m/s]  
 m = Cushionable mass [kg]

## Tie rod cylinder ISO 15552, Series ITS

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ heat resistant

### Dimensions



20467

S = stroke

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston $\varnothing$	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VA	VD	WH
160	16	40	24	45	35	M16	36	27	60	140	6	6	80
200	16	40	22.5	42	30	M16	36	27	60	175	6	6	95
250	20	50	29	46	32.8	M20	46	41	80	220	10	31	105
320	23.25	63	30	48	37	M24	55	50	95	270	10	34	120

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**

**Tie rod cylinder ISO 1552, Series ITS**

▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread ▶ heat resistant

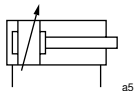
Piston Ø	ZJ												
160	260												
200	275												
250	305.3												
320	340.5												

### Tie rod cylinder ISO 15552, Series ITS

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread  
▶ heat resistant



21403



Standards	ISO 15552
Compressed air connection	Internal thread
Working pressure min./max.	2 bar / 10 bar
Ambient temperature min./max.	-10°C / +150°C
Medium temperature min./max.	-10°C / +150°C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	6,3 bar

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

#### Technical Remarks

- 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, see chapter „Technical information“.

Piston Ø	[mm]	160	200	250	320	
Retracting piston force	[N]	11650	18640	29124	47778	
Extracting piston force	[N]	12436	19416	30337	49705	
Cushioning length	[mm]	50	50	64	55	
Cushioning energy	[J]	160	170	180	190	
Weight	0 mm stroke	[kg]	12.5	15.67	25.87	46.89
	+10 mm stroke	[kg]	0.21	0.21	0.38	0.61
Stroke max.	[mm]	2700	2700	2500	2500	

	Piston Ø	160	200	250	320
	Piston rod thread	M36x2	M36x2	M42x2	M48x2
	Ports	G 3/4	G 3/4	G 1	G 1
	Piston rod Ø	40	40	50	63
	Stroke 25	R480634923	R480627379	R480627475	R480627559
	50	R480627308	R480627380	R480627476	R480627560
	80	R480627309	R480627381	R480627477	R480627561
	100	R480627310	R480627382	R480627478	R480627562
	125	R480627311	R480627383	R480627479	R480627563
	160	R480627312	R480627384	R480627480	R480627564
	200	R480627313	R480627385	R480627481	R480627565
	250	R480627314	R480627386	R480627482	R480627566
	320	R480627315	R480627387	R480627483	R480627567
	400	R480627316	R480627388	R480627484	R480627568
	500	R480627317	R480627389	R480627485	R480627569



Piston rod cylinders ▶ Standard cylinders

**Tie rod cylinder ISO 15552, Series ITS**

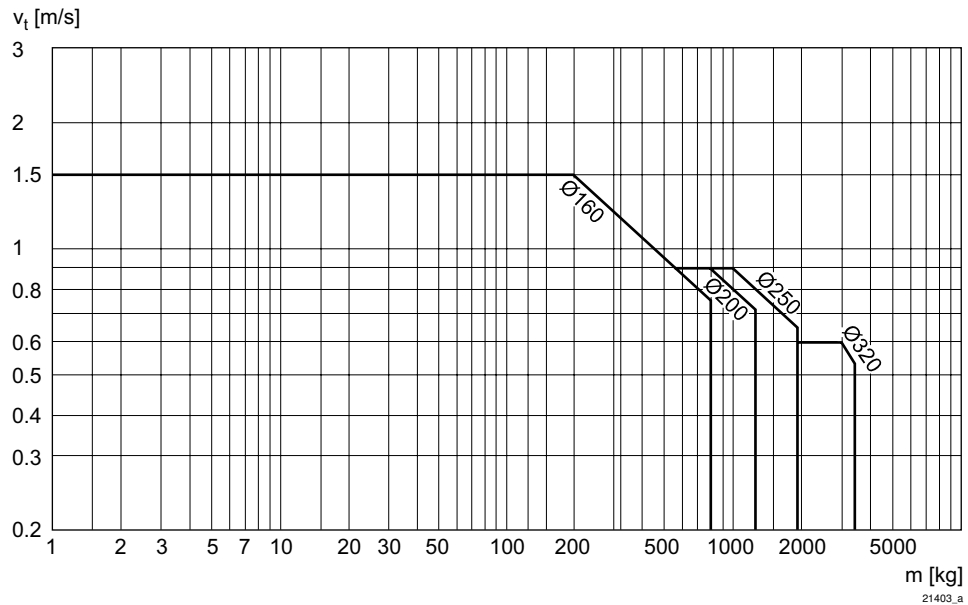
- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread
- ▶ heat resistant

**Configurable product**



This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

**Cushioning diagram**



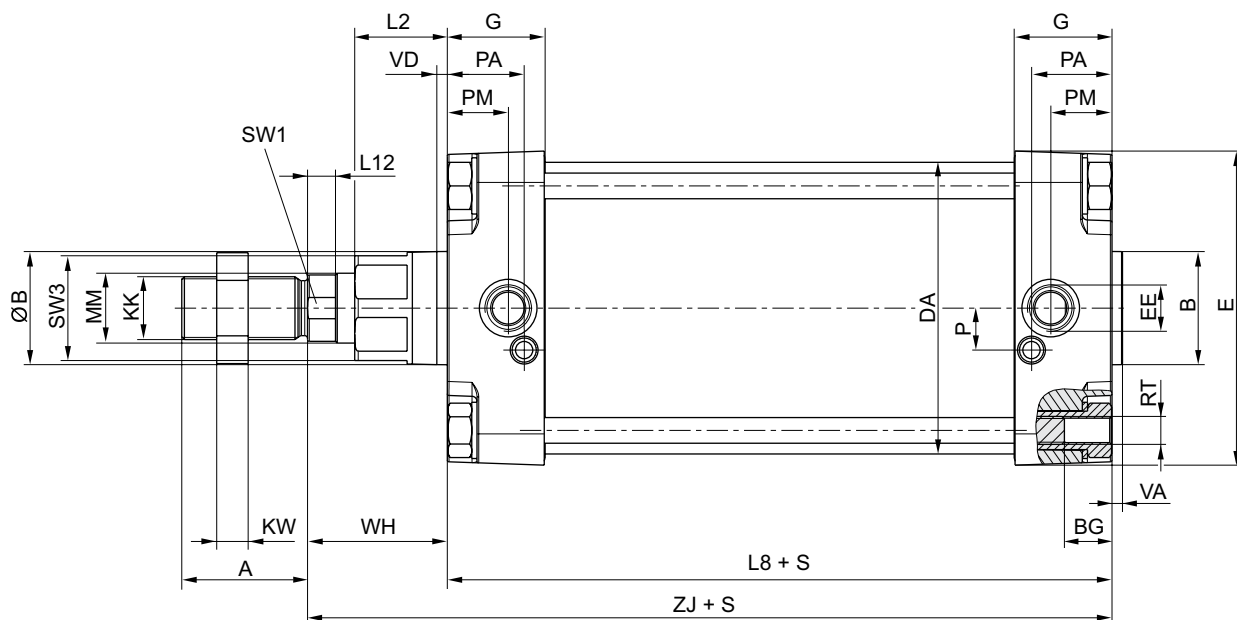
v = Piston velocity [m/s]  
 m = Cushionable mass [kg]

21403\_a

## Tie rod cylinder ISO 15552, Series ITS

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread
- ▶ heat resistant

### Dimensions



S = stroke

20467

Piston $\varnothing$	A	B	$\varnothing B$	BG	DA	E	EE	G	KK	KV	KW	L2	L8
160	72	65	65	24	167	180	G 3/4	56	M36x2	55	18	53	180
200	72	75	75	24	210	220	G 3/4	54	M36x2	55	18	56	180
250	84	90	90	25	262	280	G 1	59.5	M42x2	65	21	67	200
320	96	110	110	28	336	350	G 1	61.5	M48x2	75	24	76	220

Piston $\varnothing$	L12	MM	P	PA	PM	RT	SW1	SW2	SW3	TG	VA	VD	WH
160	16	40	24	45	35	M16	36	27	60	140	6	6	80
200	16	40	22.5	42	30	M16	36	27	60	175	6	6	95
250	20	50	29	46	32.8	M20	46	41	80	220	10	31	105
320	23.25	63	30	48	37	M24	55	50	95	270	10	34	120

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**

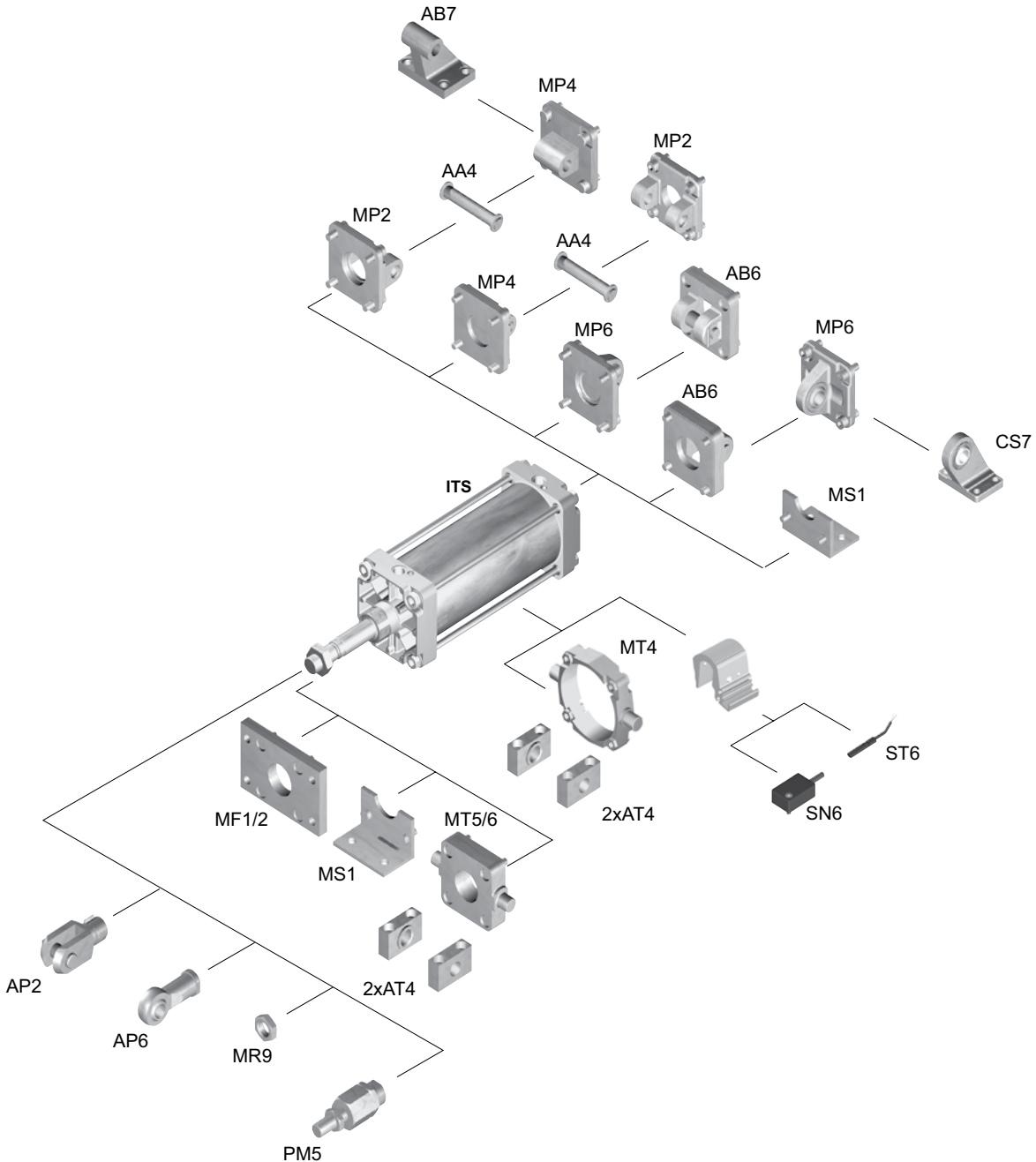
**Tie rod cylinder ISO 1552, Series ITS**

- ▶ Ports: G 3/4 - G 1 ▶ double-acting ▶ Cushioning: pneumatically, adjustable ▶ Piston rod: external thread
- ▶ heat resistant

Piston Ø	ZJ												
160	260												
200	275												
250	305.3												
320	340.5												

**Accessories overview**

## Overview drawing



00138361\_h

**NOTE:**

This overview drawing is only for orientation to see 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.

## Piston rod cylinders ▶ Standard cylinders

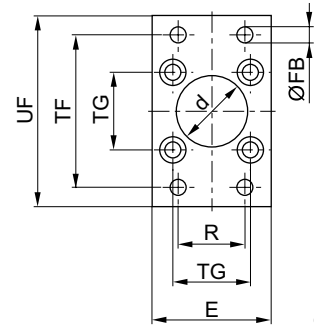
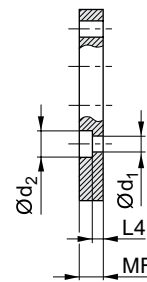
### ISO 1552, Series ITS Accessories

#### Flange mounting, Series MF1, MF2



00105812

Scope of delivery: flange mounting incl. mounting screws



00126399

Part No.	Piston Ø	Ød H11	Ød1	Ød2	E 1)	ØFB	L4	MF	R	TF	TG
<b>1827001460</b>	160	65	18	26	180	18	9.5	20	115	230	140 ±0,3
<b>1827001461</b>	200	75	18	26	220	22	12.5	25	135	270	175 ±0,3
<b>1827001462</b>	250	90	22	33	280	26	10.5	25	165	330	220 ±0,3
5239016012	320	110	26	40	350	33	15	30	200	400	270 ±0,3

Part No.	UF	Standardiza- tion									
<b>1827001460</b>	275	ISO 15552									
<b>1827001461</b>	312	ISO 15552									
<b>1827001462</b>	380	ISO 15552									
5239016012	470	ISO 21287									

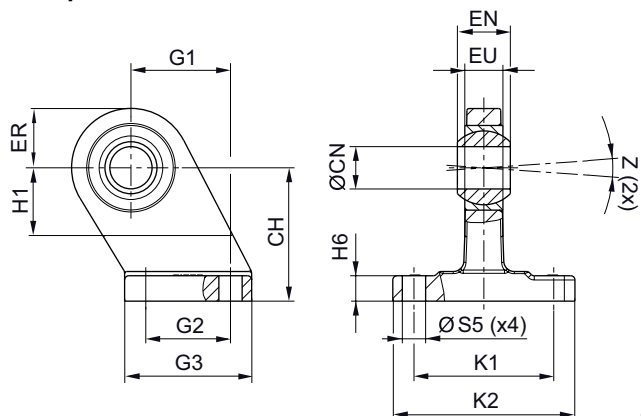
1) Max.  
Material: Steel  
Surface: galvanized

#### Bearing block, Series CS7

▶ Cylinder mounting in accordance with VDMA 24562 part 2



00105817



00105820

Part No.	Piston Ø	CH JS15	ØCN H7	EU 1)	EN -1,0	ER 1)	G1 JS14	G2 JS14	G3 1)	H1 2)	H6	K1 JS14
<b>1827001791</b>	160	115	35	28	43	44	97	88	126	45	22 ±1,5	118

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

## ISO 15552, Series ITS Accessories

Part No.	Piston Ø	CH JS15	ØCN H7	EU 1)	EN -1,0	ER 1)	G1 JS14	G2 JS14	G3 1)	H1 2)	H6	K1 JS14
<b>1827001792</b>	200	135	35	28	43	47	105	90	130	45	27 ±2	122
1827001793	250	165	40	33	49	53	128	110	160	50	31 ±2	150
5239013442	320	200	50	45	60	63	150	122	186	60	36 ±2	170

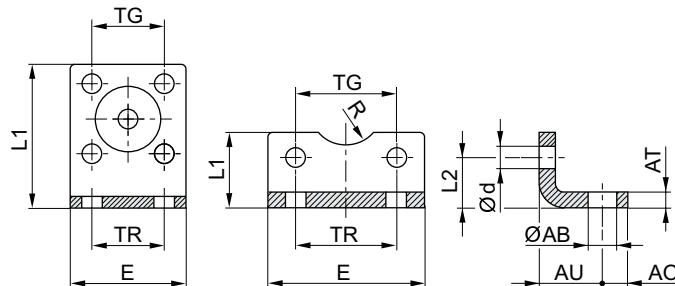
Part No.	K2 1)	ØS5 H13	Z 2)								
<b>1827001791</b>	1556	14	4°								
<b>1827001792</b>	162	18	4°								
1827001793	200	22	4°								
5239013442	234	26	4°								

1) Max.  
2) Min.  
Material: Nodular graphite iron  
Surface: galvanized

## Foot mounting, Series MS1



00105908



Ø16

Ø20 - 320

00126387

Scope of delivery: 2 foot mountings incl. mounting screws

Part No.	Piston Ø	For series	ØAB	AO	AT	AU ±0,2	Ød	E	L1	L2
<b>1827001457</b>	160	ITS TRB CVI	18.5	23	10 ±1,0	60	17.5	185	100	45
1827001458	200	ITS TRB CVI	24	26	12 ±1,0	70	17.5	220	120	47.5
1827001459	250	ITS TRB	28	33	20 ±1,0	75	22	280	135	55
5239010502	320	ITS	35	45	23 ±1,0	85	26	350	200	65

Part No.	Piston Ø	R	TG	TR	Standardiza- tion					
<b>1827001457</b>	160	32.5	140 ±0,3	115	ISO 15552					
1827001458	200	37.5	175 ±0,3	135	ISO 15552					
1827001459	250	45	220 ±0,3	165	ISO 15552					
5239010502	320	55	270 ±0,3	200	ISO 15552					

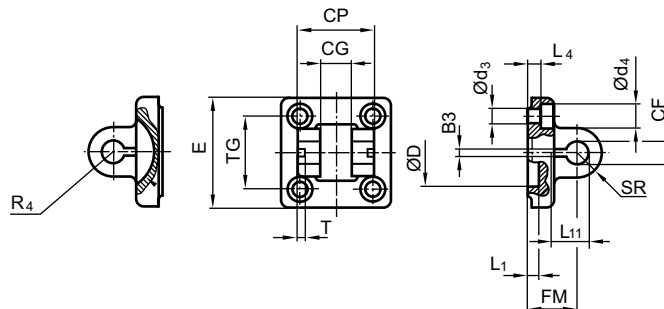
Material: Steel  
Surface: galvanized

Piston rod cylinders ▶ Standard cylinders

ISO 1552, Series ITS  
Accessories

Clevis mounting, Series AB6

▶ Cylinder mounting in accordance with ISO 1552



00105819

24547

Scope of delivery: clevis mounting incl. pivot pins and mounting screws

Part No.	Piston Ø	B3 ±0,2	Ø CF F7	CG D10	CP d12	Ø d3	Ø d4	Ø D	E	FM ±0,2	L1 1)	L4 ±0,5
<b>1827001600</b>	160	6.3	35	43	122	18	26	65	180	55	10	10
<b>1827001601</b>	200	6.3	35	43	122	18	26	75	220	60	10	11
<b>1827001602</b>	250	8.3	40	49	125	22	33	90	280	70	12	11
5239013432	320	8.3	50	60	150	26	36	110	340	80	11	15

Part No.	L11 -0,5	R4	SR	T ±0,2	TG							
<b>1827001600</b>	45	46	32.5	6	140 ±0,3							
<b>1827001601</b>	45	49	32.5	6	175 ±0,3							
<b>1827001602</b>	53	55	40	8	220 ±0,3							
5239013432	69	65	50	8	270 ±0,3							

1) Min.  
Material: Nodular graphite iron  
Surface: galvanized

## ISO 15552, Series ITS

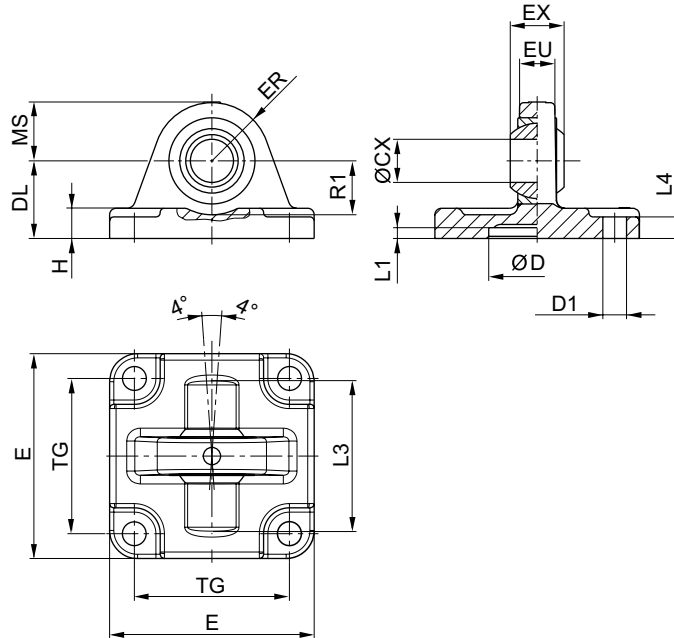
### Accessories

### Rear eye, Series MP6

▶ Cylinder mounting in accordance with ISO 15552 ▶ With ball joint and foot



24548



00126391

Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	ØCX H7	ØD H11	ØD1 H13	DL ±0,2	E	EX -0,1	ER	EU	H	L1 1)	L3
<b>1827001626</b>	160	35	65	18	55	176	43	44	30	17	7	130
<b>1827001627</b>	200	35	75	18	60	216	43	47	30	19.5	7	130
<b>1827001628</b>	250	40	90	22	70	275	49	53	35	22	11	-
5239013452	320	50	110	26	80	340	60	63	45	27	11	180

Part No.	L4	MS -0,5	R1 1)	TG	Weight [kg]							
<b>1827001626</b>	10	44	39	140 ±0,3	5.6							
<b>1827001627</b>	11	47	41	175 ±0,3	8.5							
<b>1827001628</b>	11	53	45	220 ±0,3	14.5							
5239013452	15	63	55	270 ±0,3	24.6							

1) Min.  
Material: Nodular graphite iron  
Surface: galvanized



Piston rod cylinders ▶ Standard cylinders

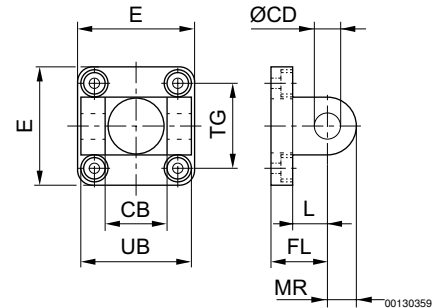
ISO 15552, Series ITS  
Accessories

Clevis mounting, Series MP2

▶ Cylinder mounting in accordance with ISO 15552



P523\_025



Scope of delivery: clevis mounting incl. mounting screws

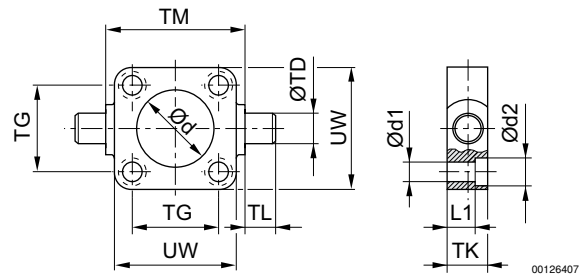
Part No.	Piston Ø	CB H14	Ø CD H9	E	FL ±0,2	L 1)	MR 2)	UB h13	TG		
<b>1827004863</b>	160	90	30	177	55	35	31	170	140 ±0,3		
<b>1827004864</b>	200	90	30	216	60	35	31	170	175 ±0,3		
<b>1827004865</b>	250	110	40	276	70	45	41	200	220 ±0,3		
5239813402	320	120	45	350	80	50	45	220	270 ±0,3		

1) Min.  
2) Max.  
Material: Nodular graphite iron  
Surface: galvanized

Trunnion mounting, front or rear, Series MT5, MT6



00128925



The delivered product may vary from that in the illustration.  
Scope of delivery: trunnion mounting incl. mounting screws

Part No.	Piston Ø	For series	Ø d H11	Ø d1	Ø d2	L1	TD e9	TG ±0,2	TK	TL h14	TM h14
<b>1827001616</b>	160	ITS	65	18	26	38	32	140	50	32	200
<b>1827001617</b>	200	ITS	75	18	26	40	32	175	60	32	250
1827001618	250	ITS	90	22	33	57	40	220	70	40	320

**ISO 1552, Series ITS**  
 Accessories

Part No.	Piston Ø	UW										
<b>1827001616</b>	160	184										
<b>1827001617</b>	200	224										
1827001618	250	286										

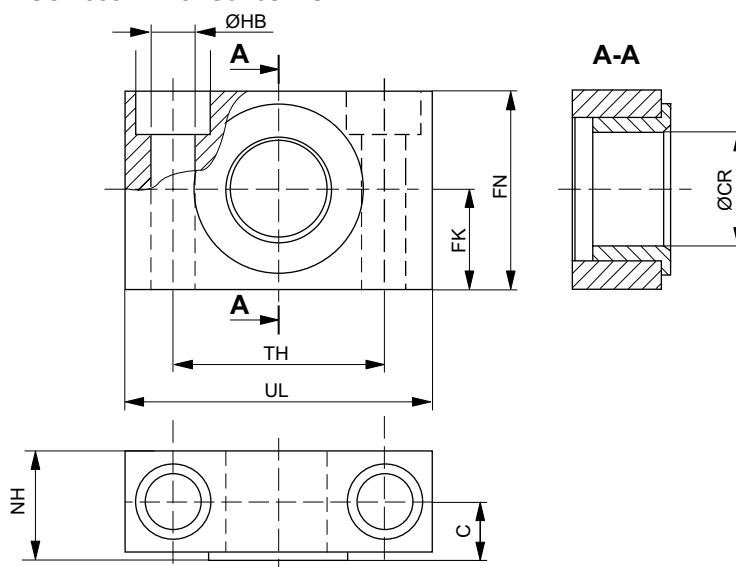
Material: Nodular graphite iron  
Surface: galvanized

**Bearing brackets MT4, MT5, MT6, Series AT4**

▶ Cylinder mounting in accordance with ISO 1552 ▶ for Series ITS



00105163



00105221

Part No.	Piston Ø	For series	UL	NH	TH	C	CR H9	HB H13	FN	FK
<b>1827001607</b>	160, 200	ITS	92	40	60 ±0,3	22,5	32	18	60	30 ±0,2
R412018908	250	ITS	140	50	90	27,5	40	22	70	35
R412018903	320	ITS	150	60	100	32,5	50	26	80	40

Part No.	Piston Ø	Plain bearing	Delivery quantity [Piece]							
<b>1827001607</b>	160, 200	Sintered bronze	2							
R412018908	250	Sintered bronze	2							
R412018903	320	Sintered bronze	2							

Material: Steel  
Surface: galvanized

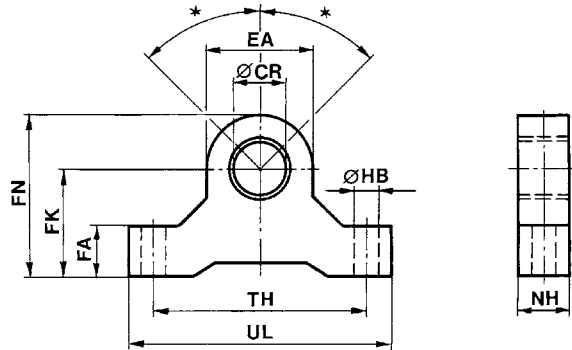
Piston rod cylinders ▶ Standard cylinders

ISO 15552, Series ITS  
Accessories

Eye brackets



P300\_012



D300\_011

\* Max. pendulum movement for cylinders with rear eye MP6 with ball joint: ±45°

Part No.	Ø CR H8	EA	FA	FK ±0,1	FN	HB	NH	TH	UL			
3671216000	32	66	32	70	103	17	32	140	172			
3671220000	35	66	32	70	103	17	32	140	172			

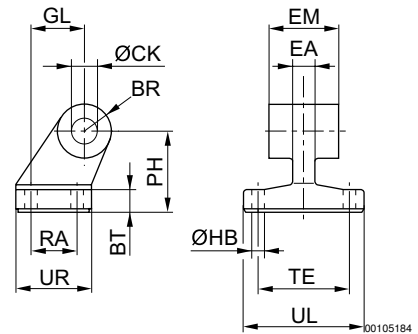
Material: Aluminum

Bearing block, Series AB7

▶ Cylinder mounting in accordance with ISO 15552



00105160



D0105184

Part No.	Piston Ø	BR	BT	Ø CK H9	Ø HB H13	EM	GL JS14	EA 1)	PH JS15	RA JS14	TE JS14
<b>1825805282</b>	160	31.5	25	30	14	90 -0,5/-1,5	97	36	115	88	118
1825805283	200	31.5	30	30	18	90 -0,5/-1,5	105	40	135	90	122
1825805284	250	40	35	40	22	110 -0,5/-1,5	128	45	165	110	150
5239013422	320	45	40	45	26	120 -0,5/-1,5	150	55	200	122	170

Part No.	UL 1)	UR 1)								
<b>1825805282</b>	156	126								

1) Max.  
Material: Nodular graphite iron  
Surface: galvanized

## ISO 15552, Series ITS

### Accessories

Part No.	UL 1)	UR 1)										
1825805283	162	130										
1825805284	200	160										
5239013422	234	186										

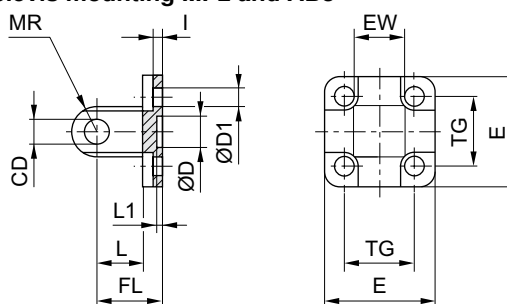
1) Max.  
Material: Nodular graphite iron  
Surface: galvanized

## Rear eye, Series MP4

▶ Cylinder mounting in accordance with ISO 15552 ▶ for clevis mounting MP2 and AB3



P523\_024



00126403\_a

Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	CD H9	Ø D	Ø D1	E	EW	FL ±0,2	I ±0,5	L 1)	L1 1)	MR 2)
<b>1827004867</b>	160	30	65 H11	18	180	90 -0,5/-1,2	55	10	35	7	31
<b>1827004868</b>	200	30	75 H11	18	220	90 -0,5/-1,2	60	11	35	7	31
<b>1827004869</b>	250	40	90 H11	22	280	110 -0,5/-1,2	70	11	45	11	41
5239813412	320	45	110 H11	26	350	120 -0,5/-1,2	80	15	50	11	45

Part No.	TG										
<b>1827004867</b>	140 ±0,3										
<b>1827004868</b>	175 ±0,3										
<b>1827004869</b>	220 ±0,3										
5239813412	270 ±0,3										

1) Min.  
2) Max.  
Material: Nodular graphite iron  
Surface: galvanized

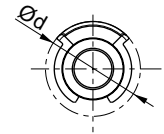
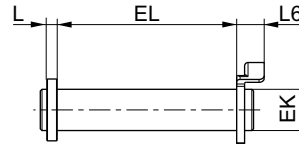
Piston rod cylinders ▶ Standard cylinders

ISO 15552, Series ITS  
Accessories

**Bolts, AA4**

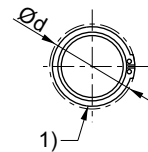
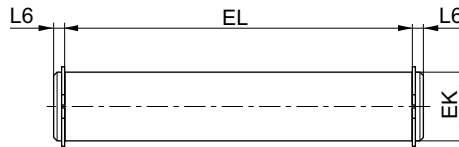
▶ Cylinder mounting in accordance with ISO 15552

Fig. 1



00105158

Fig. 2



21294

Scope of delivery: pivot pins incl. circlips

1) circlip DIN 471

Part No.	Piston Ø	Ø d 2)	EK e8	EL	L 2)	L6 2)	Weight [kg]	Fig.			
<b>5237000092</b>	160, 200	40.5	30	172 +0,5	-	4,25	0.99	Fig. 2			
<b>5239000092</b>	250	52.6	40	202 +0,5	-	6,75	2.12	Fig. 2			
5239010092	320	59.1	45	222 +0,5	-	7,25	3.01	Fig. 2			

2) Max.  
Material: Steel  
Surface: galvanized

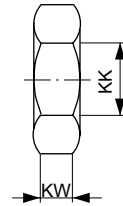
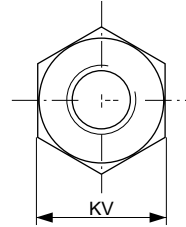
## ISO 15552, Series ITS

### Accessories

### Nut for piston rod, Series MR9



00105168



00105192

Part No.	KK	KV	KW	Material	Surface	Weight [kg]				
<b>8103190414</b>	M36x2	55	18	Steel	galvanized	0.175				
8103190424	M42x2	65	21	Steel	galvanized	0.37				
8103190434	M48x2	75	24	Steel	galvanized	0.4				

### Rod clevis, Series AP2

▶ galvanized steel



00105171

Fig. 1

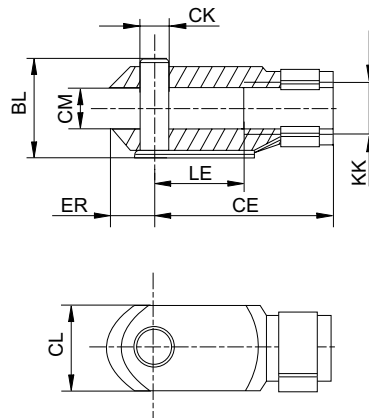
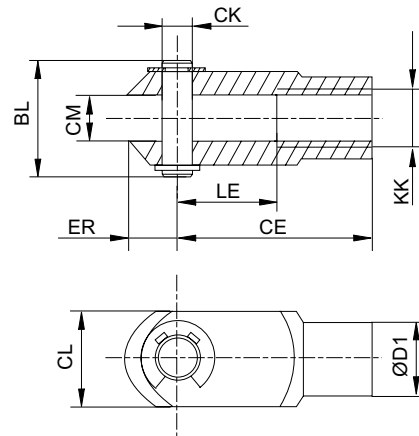


Fig. 2



00126410

Part No.	KK	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE	Material
<b>1827001471</b>	M36x2	80	144	35	70	35	60	57	72	Steel
<b>1827001472</b>	M42x2	98	168	40	85	40	70	64	84	Steel
8958019332	M48x2	122	192	50	96	50	82	73	96	Steel

Part No.	Surface	Weight [kg]	Fig.							
<b>1827001471</b>	galvanized	3.5	Fig. 2							
<b>1827001472</b>	galvanized	6.6	Fig. 2							
8958019332	galvanized	0.01	Fig. 1							

## Piston rod cylinders ▶ Standard cylinders

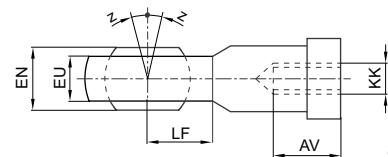
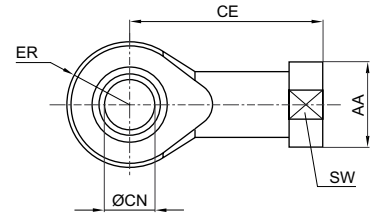
### ISO 15552, Series ITS Accessories

#### Ball eye rod end with flange, Series AP6

▶ galvanized steel



00105172



00126602

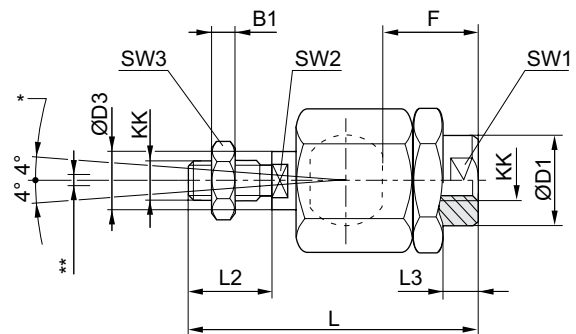
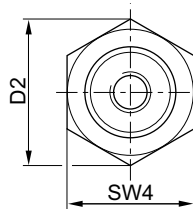
Part No.	KK	AA	AV min.	CE	Ø CN H7	EN -0,1	ER	EU max.	LF	SW	Z [°] max.
<b>1822124008</b>	M36x2	60	56	125	35	43	40	32	40	50	4
<b>1822124009</b>	M42x2	69	60	142	40	49	45.5	37	45	55	4
8958208842	M48x2	75	65	160	50	60	58	45	60	65	6

Part No.	Material	Surface	Weight [kg]
<b>1822124008</b>	Steel	galvanized	2
<b>1822124009</b>	Steel	galvanized	3.4
8958208842	Steel	galvanized	5.2

#### Flexible spherical coupling, Series PM5



00105169



D300\_029

\* Angle joint  
 \*\* Radial joint from 0,5 - 2 mm  
 Axial play set to 0.05 to 0.2 mm

Part No.	KK	B1	Ø D1	D2	Ø D3	F	L ±2	L2	L3 ±1	SW1	SW2	SW3
<b>1826409007</b>	M36x2	18	80	80	38	86	241	72	18.2	50	36	55

**ISO 15552, Series ITS**  
**Accessories**

Part No.	KK	B1	Ø D1	D2	Ø D3	F	L ±2	L2	L3 ±1	SW1	SW2	SW3
R412007729	M42x2	21	64	98	42	96	271	82	20	60	36	65

Part No.	SW4	Material	Surface	Weight							
				[kg]							
<b>1826409007</b>	75	Steel	galvanized	5.4							
R412007729	85	Steel	galvanized	8.76							



## Piston rod cylinders ▶ Standard cylinders

### ISO 1552, Series ITS Accessories

#### Series MSS

▶ Für Serie: ITS (Ø 160 - 320 mm)



20908

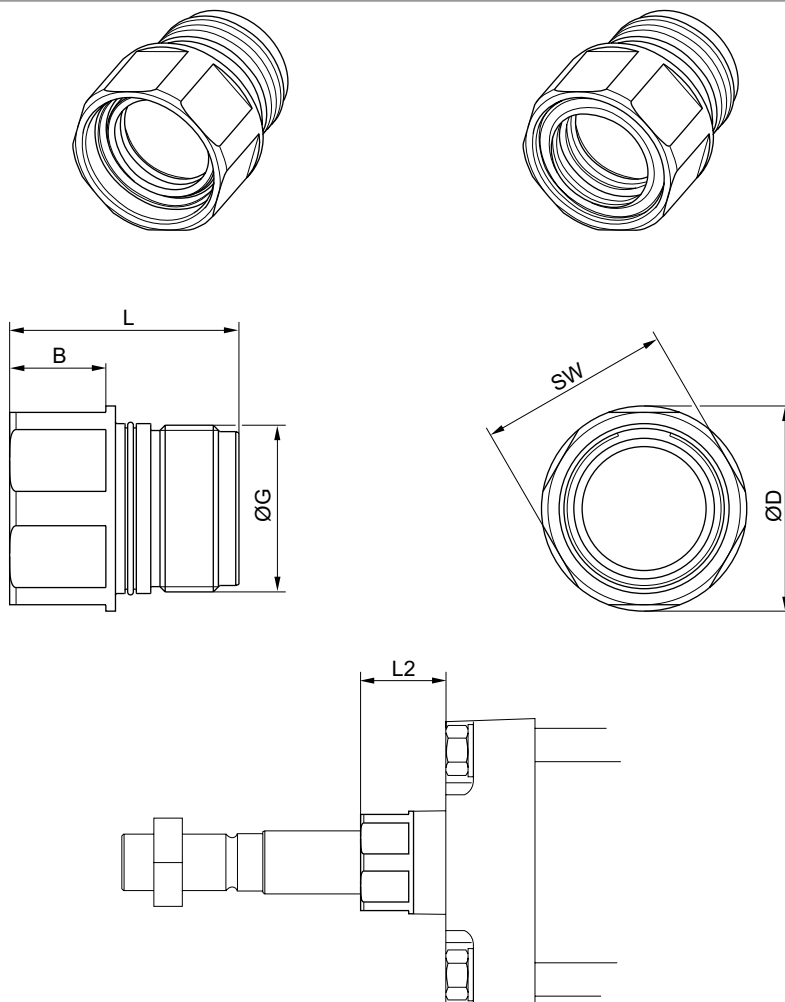
Operating pressure 2 bar / 10 bar  
 Medium Compressed air  
 Oil content of compressed air 0 mg/m<sup>3</sup> / 5 mg/m<sup>3</sup>

Materials:  
 Housing Aluminum, anodized

Piston Ø	Seal	Scraper	Ambient temperature min./max.	Part No.
160, 200	Acrylonitrile butadiene rubber	Acrylonitrile butadiene rubber	-20 °C / +80 °C	<b>R412018749</b>
	Polyurethane	Brass	-20 °C / +80 °C	<b>R412018750</b>
	Fluorocaoutchouc	Fluorocaoutchouc	-10 °C / +150 °C	<b>R412018751</b>
	Fluorocaoutchouc	Brass	-10 °C / +150 °C	R412018752
250	Acrylonitrile butadiene rubber	Acrylonitrile butadiene rubber	-20 °C / +80 °C	<b>R412018753</b>
	Polyurethane	Brass	-20 °C / +80 °C	R412018754
	Fluorocaoutchouc	Fluorocaoutchouc	-10 °C / +150 °C	R412018755
	Fluorocaoutchouc	Brass	-10 °C / +150 °C	R412018756
320	Acrylonitrile butadiene rubber	Acrylonitrile butadiene rubber	-20 °C / +80 °C	R412018757
	Polyurethane	Brass	-20 °C / +80 °C	R412018758
	Fluorocaoutchouc	Fluorocaoutchouc	-10 °C / +150 °C	R412018759
	Fluorocaoutchouc	Brass	-10 °C / +150 °C	R412018760

Chemical industry / Sugar production / Steel production / Automotive industry / Woodworking industry

**ISO 15552, Series ITS**  
 Accessories

**Dimensions**


20471

Part No.	Ø	B	ØD	G	L	L2	SW					
<b>R412018749</b>	160, 200	30	64	M52x3	71.5	56	60					
<b>R412018750</b>	160, 200	30	64	M52x3	71.5	56	60					
<b>R412018751</b>	160, 200	30	64	M52x3	71.5	56	60					
R412018752	160, 200	30	64	M52x3	71.5	56	60					
<b>R412018753</b>	250	31.5	88	M70x4	85.5	67	80					
R412018754	250	31.5	88	M70x4	85.5	67	80					
R412018755	250	31.5	88	M70x4	85.5	67	80					
R412018756	250	31.5	88	M70x4	85.5	67	80					
R412018757	320	37	108	M85x4	97	76	95					
R412018758	320	37	108	M85x4	97	76	95					
R412018759	320	37	108	M85x4	97	76	95					
R412018760	320	37	108	M85x4	97	76	95					

Piston rod cylinders ▶ Standard cylinders

ISO 15552, Series ITS  
Accessories

Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 2-pin, open cable ends, 3-pin



24712

Certificates	CE declaration of conformity cULus RoHS
Ambient temperature min./max.	-30°C / +80°C
Protection class	IP65, IP67, IP69K
Switching point precision [mm]	±0,1
Switching logic	NO (make contact)
Switching capacity	Reed, 2-pin: max. 10 W Reed, 3-pin: max. 6 W
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

Technical Remarks

- No cULus certification for 230 V variant.

	Type of contact	Cable length	DC operating voltage min./max.	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Part No.
		[m]	[V DC]	[V AC]		[A]	[A]	
	Reed	3	10 / 230	10 / 230	I*Rs	0.13	0.13	<b>R412022866</b>
	Reed	3 5 10	10 / 30	10 / 30	I*Rs	0.3	0.5	<b>R412022869</b> <b>R412022870</b> <b>R412022871</b>
	electronic PNP	3 5 10	10 / 30	-	≤ 2,5 V	0.13	-	<b>R412022853</b> <b>R412022855</b> <b>R412022857</b>
	electronic NPN	3 5	10 / 30	-	≤ 2,5 V	0.13	-	<b>R412022849</b> <b>R412022850</b>

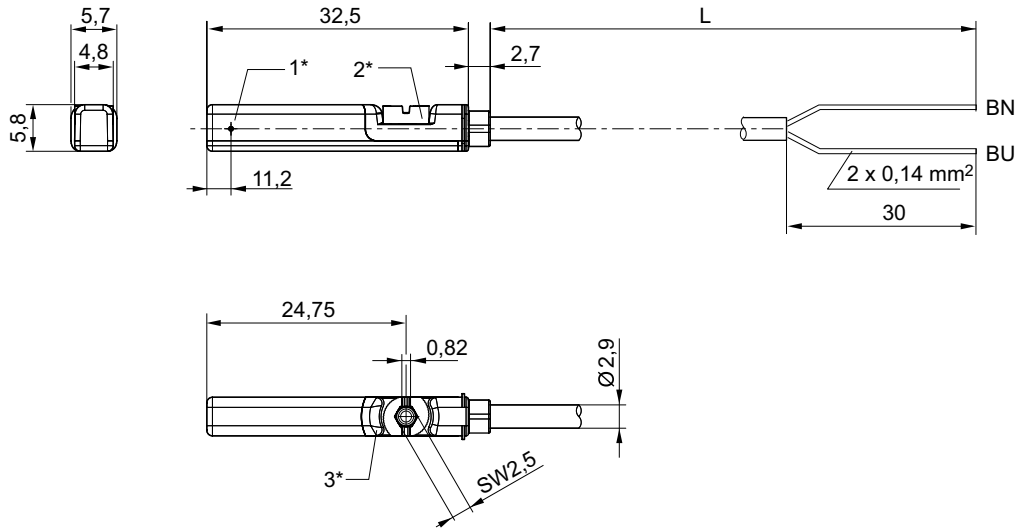
Part No.	Max. switching frequency kHz	Operating current, not switched	Operating current, switched	Fig.	Note
<b>R412022866</b>	< 0,4	-	-	Fig. 1	1); 3)
<b>R412022869</b> <b>R412022870</b> <b>R412022871</b>	< 0,4	-	-	Fig. 2	2); 3)
<b>R412022853</b> <b>R412022855</b> <b>R412022857</b>	< 1,0	< 8 mA	< 30 mA	Fig. 2	2); 4)
<b>R412022849</b> <b>R412022850</b>	< 1,0	< 8 mA	< 30 mA	Fig. 2	2); 4)

- 1) interfaces: open cable ends; 2-pin
- 2) interfaces: open cable ends; 3-pin
- 3) Protected against polarity reversal
- 4) short circuit resistant / Protected against polarity reversal

## ISO 1552, Series ITS

### Accessories

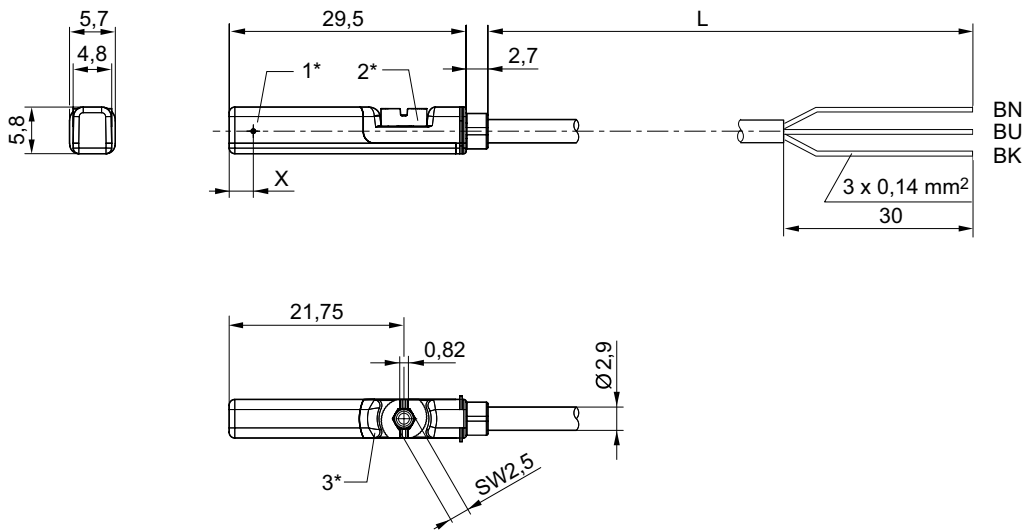
Fig. 1



24619

1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
 L = cable length  
 BN=brown, BU=blue

Fig. 2



24620

1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
 L = cable length  
 BN = brown, BK = black, BU = blue  
 X = electronic: 11,6 mm, Reed: 8,3 mm

Piston rod cylinders ▶ Standard cylinders

**ISO 15552, Series ITS**  
Accessories

**Sensor, Series ST6**

▶ 6 mm T-slot ▶ with cable ▶ open cable ends, 3-pin ▶ ATEX certified



24712

Certificates

CE declaration of conformity  
cULus  
RoHS

ATEX

II 3G Ex nA op is IIC T4 Gc X  
II 3D Ex tc IIIC T135°C Dc X

Ambient temperature min./max.

-20°C / +50°C

Protection class

IP67

Switching point precision [mm]

±0,1

Quiescent current (without load)

< 10 mA

DC operating voltage min./max.

10 V DC - 30 V DC

Switching logic

NO (make contact)

LED status display

Yellow

Vibration resistance

10 - 55 Hz, 1 mm

Shock resistance

30 g / 11 ms

Materials:

Housing

Polyamide

Cable sheath

Polyurethane

Locking screw

Stainless steel

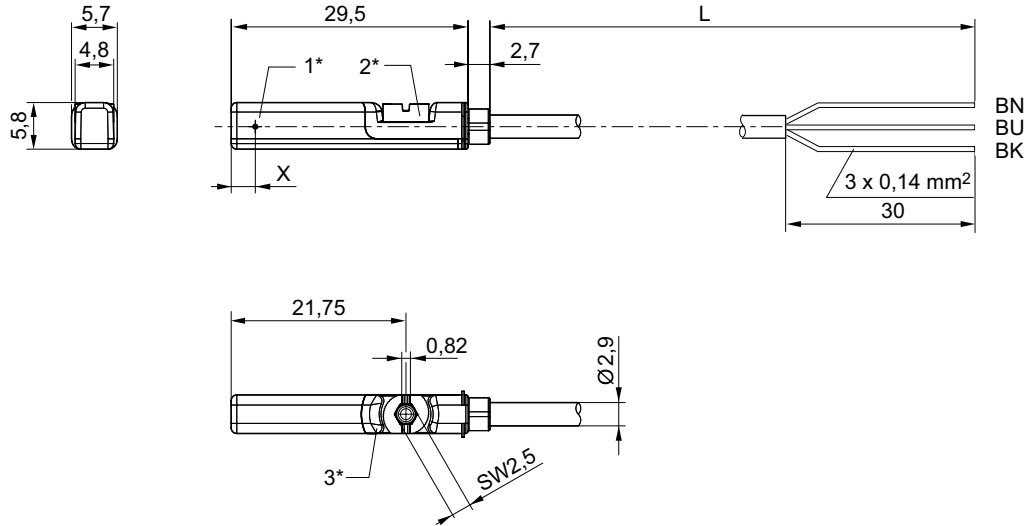
	Type of contact	Cable length	Voltage drop U at I <sub>max</sub>	DC switching current, max.	Max. switching frequency kHz	Part No.
		[m]		[A]		
	electronic PNP	3	≤ 2,5 V	0.1	< 1,0	<b>R412022854</b>
		5				<b>R412022856</b>

interfaces: open cable ends; 3-pin  
short circuit resistant / Protected against polarity reversal

## ISO 15552, Series ITS

### Accessories

#### Dimensions



24620

1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
 L = cable length  
 BN = brown, BK = black, BU = blue  
 X = electronic: 11.6 mm

## Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw



24713

#### Certificates

Ambient temperature min./max.  
 Protection class  
 Switching point precision [mm]  
 DC operating voltage min./max.  
 Switching logic  
 Switching capacity  
 LED status display  
 Vibration resistance  
 Shock resistance

#### Materials:

Housing  
 Locking screw

#### CE declaration of conformity

cULus  
 RoHS  
 -30 °C / +80 °C  
 IP65, IP67  
 ±0,1  
 10 V DC - 30 V DC  
 NO (make contact)  
 Reed, 3-pin: max. 6 W  
 Yellow  
 10 - 55 Hz, 1 mm  
 30 g / 11 ms

Polyamide  
 Stainless steel



	Type of contact	Cable sheath	Cable length	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Part No.
			[m]	[V AC]		[A]	[A]	
	Reed	Polyurethane	0.3	10 / 30	I*Rs	0.3	0.5	<b>R412022873</b>
		Polyvinyl chloride	0.3					<b>R412022875</b>
		Polyurethane	0.5					<b>R412022874</b>

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à.r.l., subject to change

## Piston rod cylinders ▶ Standard cylinders

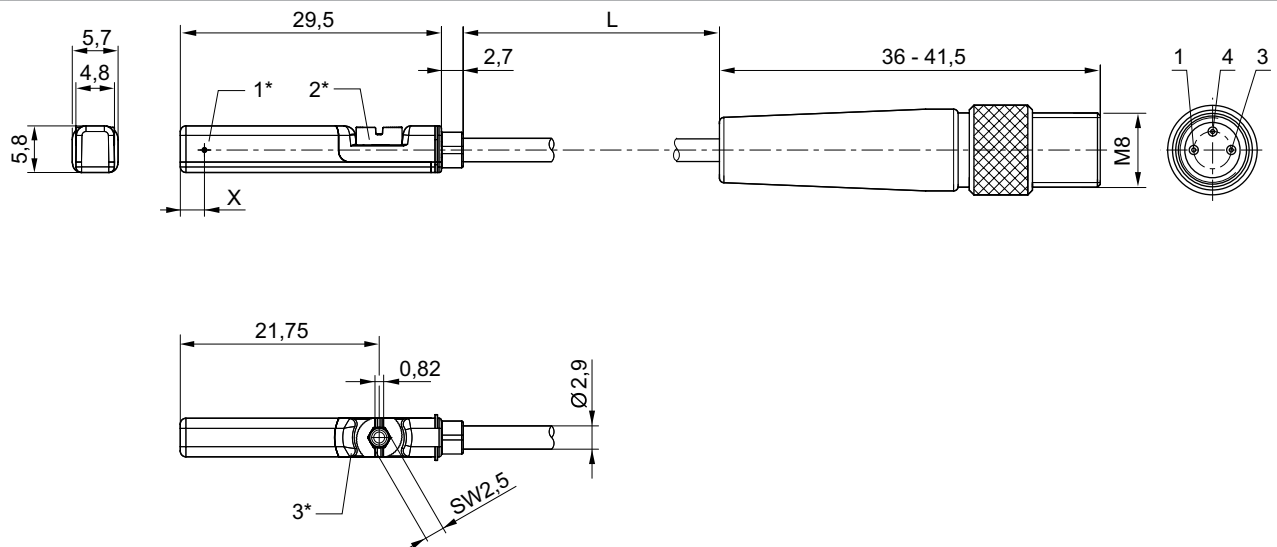
### ISO 1552, Series ITS Accessories

	Type of contact	Cable sheath	Cable length	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Part No.
			[m]	[V AC]		[A]	[A]	
	electronic PNP	Polyurethane	0.3	-	≤ 2,5 V	0.13	-	<b>R412022859</b>
		Polyvinyl chloride	0.3					<b>R412022862</b>
		Polyurethane	0.5					<b>R412022861</b>
	electronic NPN	Polyurethane	0.3	-	≤ 2,5 V	0.13	-	<b>R412022852</b>

Part No.	Max. switching frequency kHz	Operating current, not switched	Operating current, switched	Note
<b>R412022873</b> <b>R412022875</b> <b>R412022874</b>	< 0,4	-	-	1)
<b>R412022859</b> <b>R412022862</b> <b>R412022861</b>	< 1,0	< 8 mA	< 30 mA	2)
<b>R412022852</b>	< 1,0	< 8 mA	< 30 mA	2)

1) Protected against polarity reversal  
 2) short circuit resistant / Protected against polarity reversal  
 interfaces: Plug; M8; 3-pin; with knurled screw

### Dimensions



1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
 L = cable length  
 X = electronic: 11,6 mm, Reed: 8,3 mm  
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24622

## ISO 15552, Series ITS

### Accessories

### Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin, with knurled screw ▶ ATEX certified



24713

Certificates	CE declaration of conformity cULus RoHS II 3G Ex nA op is IIC T4 Gc X II 3D Ex tc IIIC T135°C Dc X
ATEX	
Ambient temperature min./max.	-20°C / +50°C
Protection class	IP67
Switching point precision [mm]	±0,1
Quiescent current (without load)	< 10 mA
DC operating voltage min./max.	10 V DC - 30 V DC
Switching logic	NO (make contact)
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide
Cable sheath	Polyurethane
Locking screw	Stainless steel

	Type of contact	Cable length	Voltage drop U at I <sub>max</sub>	DC switching current, max.	Max. switching frequency kHz	Part No.
		[m]		[A]		
	electronic PNP	0.3	≤ 2,5 V	0.1	< 1,0	<b>R412022860</b>

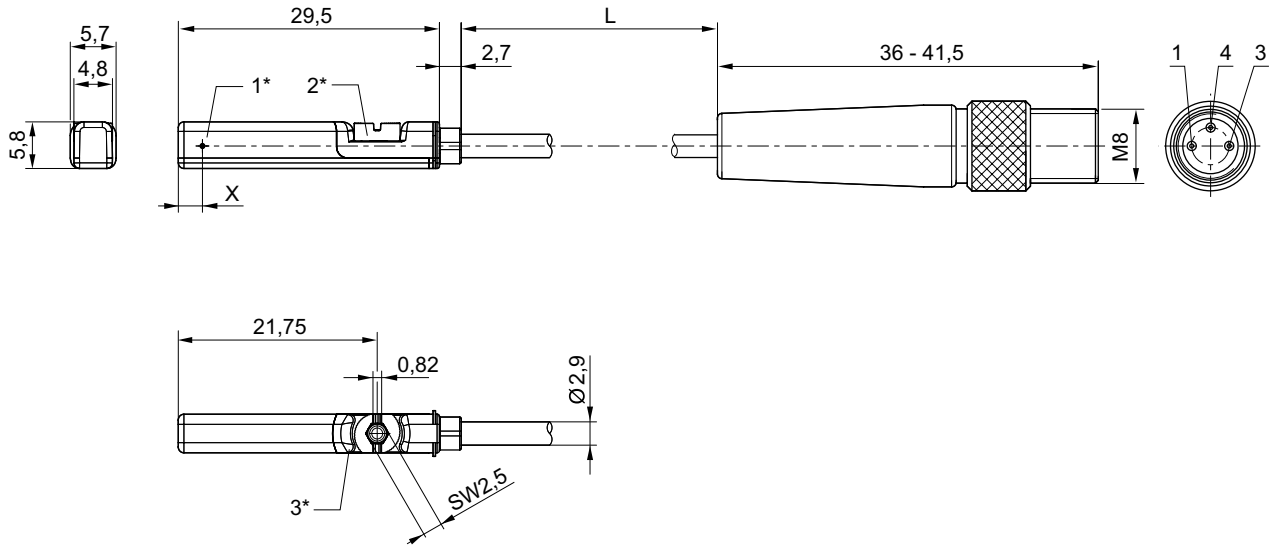
interfaces: Plug; M8; 3-pin; with knurled screw  
short circuit resistant / Protected against polarity reversal



**Piston rod cylinders ▶ Standard cylinders**

**ISO 15552, Series ITS**  
Accessories

**Dimensions**



1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
 L = cable length  
 X = PNP: 11,6 mm  
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24622

**Sensor, Series ST6**

▶ 6 mm T-slot ▶ with cable ▶ Plug, M8, 3-pin



24742

**Certificates**

Ambient temperature min./max.  
 Protection class  
 Switching point precision [mm]  
 DC operating voltage min./max.  
 Switching logic  
 Switching capacity

LED status display  
 Vibration resistance  
 Shock resistance


**Materials:**

Housing  
 Cable sheath  
 Locking screw

**CE declaration of conformity**

cULus  
 RoHS  
 -30°C / +80°C  
 IP65, IP67  
 ±0,1  
 10 V DC - 30 V DC  
 NO (make contact)  
 Reed, 2-pin: max. 10 W  
 Reed, 3-pin: max. 6 W  
 Yellow  
 10 - 55 Hz, 1 mm  
 30 g / 11 ms

Polyamide  
 Polyurethane  
 Stainless steel

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Max. switching frequency kHz	Part No.
		[m]	[V AC]		[A]	[A]		
	Reed	0.3	10 / 30	I*Rs	0.13	0.13	< 0,4	<b>R412022868</b>

## ISO 15552, Series ITS

### Accessories

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Max. switching frequency kHz	Part No.
		[m]	[V AC]		[A]	[A]		
	Reed	0.3	10 / 30	I <sup>*</sup> Rs	0.3	0.5	< 0,4	<b>R412022872</b>
	electronic PNP	0.3	-	≤ 2,5 V	0.13	-	< 1,0	<b>R412022858</b>
	electronic NPN	0.3	-	≤ 2,5 V	0.13	-	< 1,0	<b>R412022851</b>

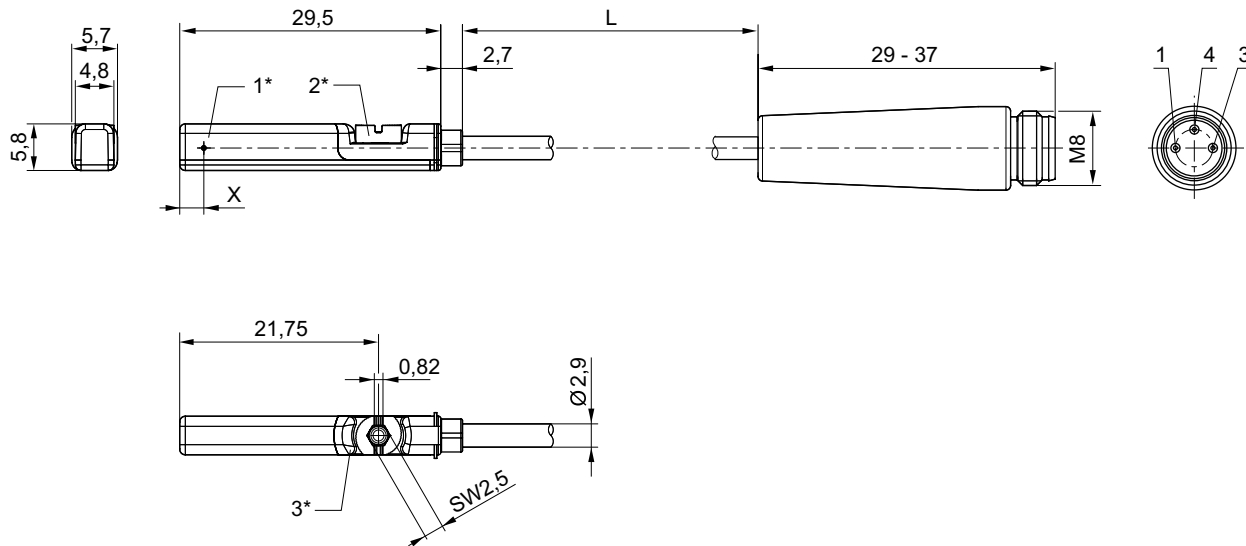
Part No.	Operating current, not switched	Operating current, switched	Note
<b>R412022868</b>	-	-	1)
<b>R412022872</b>	-	-	1)
<b>R412022858</b>	< 8 mA	< 30 mA	2)
<b>R412022851</b>	< 8 mA	< 30 mA	2)

1) Protected against polarity reversal

2) short circuit resistant / Protected against polarity reversal

interfaces: Plug; M8; 3-pin

### Dimensions



1\* = switching point 2\* = locking screw 3\* = LED window, transparent

L = cable length

X = electronic: 11,6 mm, Reed: 8,3 mm

Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24621

## Piston rod cylinders ▶ Standard cylinders

### ISO 15552, Series ITS Accessories

#### Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw



24714

#### Certificates

Ambient temperature min./max.  
Protection class  
Switching point precision [mm]  
DC operating voltage min./max.  
Switching logic  
Switching capacity  
LED status display  
Vibration resistance  
Shock resistance



CE declaration of conformity  
cULus  
RoHS

-30°C / +80°C  
IP65, IP67  
±0,1  
10 V DC - 30 V DC  
NO (make contact)  
Reed, 3-pin: max. 6 W  
Yellow  
10 - 55 Hz, 1 mm  
30 g / 11 ms

#### Materials:

Housing  
Cable sheath  
Locking screw

Polyamide  
Polyurethane  
Stainless steel

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Max. switching frequency kHz	Part No.
		[m]	[V AC]		[A]	[A]		
	Reed	0.3	10 / 30	I*Rs	0.3	0.5	< 0,4	<b>R412022876</b>
	electronic PNP	0.1 0.3 3 5	-	≤ 2,5 V	0.13	-	< 1,0	<b>R412022879</b> <b>R412022863</b> <b>R412022877</b> <b>R412022878</b>

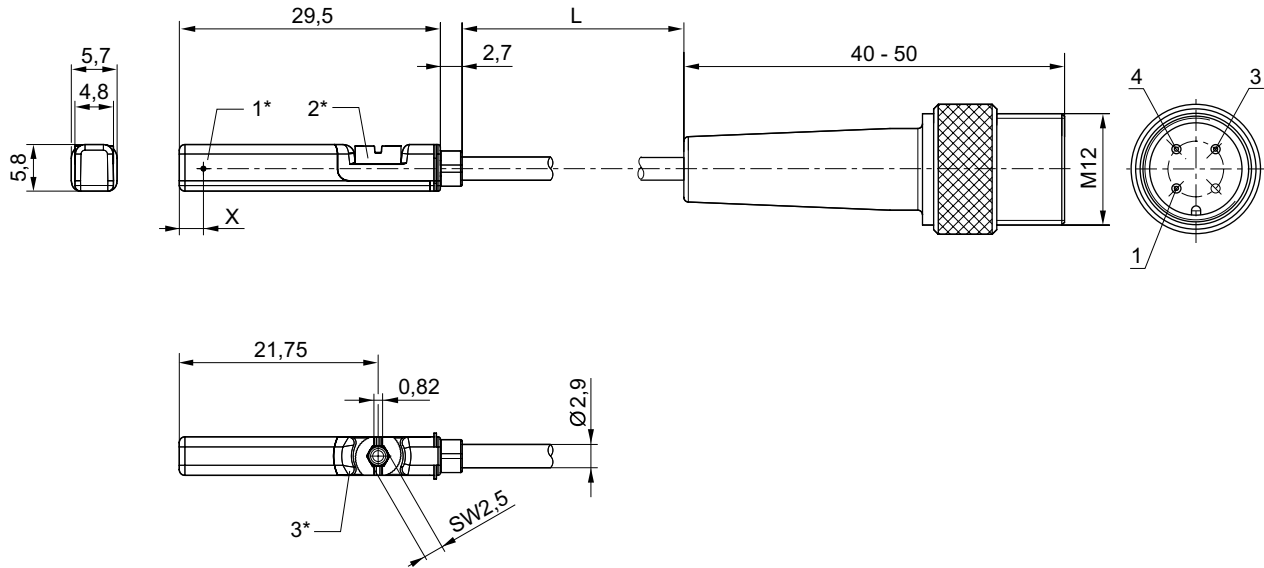
Part No.	Operating current, not switched	Operating current, switched	Note
<b>R412022876</b>	-	-	1)
<b>R412022879</b> <b>R412022863</b> <b>R412022877</b> <b>R412022878</b>	< 8 mA	< 30 mA	2)

1) Protected against polarity reversal  
2) short circuit resistant / Protected against polarity reversal  
interfaces: Plug; M12; 3-pin; with knurled screw

### ISO 1552, Series ITS

#### Accessories

#### Dimensions



1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
 L = cable length  
 X = PNP: 11,6 mm, reed: 8,3 mm  
 Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24623

### Sensor, Series ST6

▶ 6 mm T-slot ▶ with cable ▶ Plug, M12, 3-pin, with knurled screw ▶ ATEX certified



24714

#### Certificates

#### ATEX

Ambient temperature min./max.  
 Protection class  
 Switching point precision [mm]  
 Quiescent current (without load)  
 DC operating voltage min./max.  
 Switching logic  
 LED status display  
 Vibration resistance  
 Shock resistance

#### Materials:

Housing  
 Cable sheath  
 Locking screw

CE declaration of conformity  
 cULus  
 RoHS

II 3G Ex nA op is IIC T4 Gc X  
 II 3D Ex tc IIIC T135°C Dc X

-20°C / +50°C

IP67

±0,1

< 10 mA

10 V DC - 30 V DC

NO (make contact)

Yellow

10 - 55 Hz, 1 mm

30 g / 11 ms

Polyamide

Polyurethane

Stainless steel

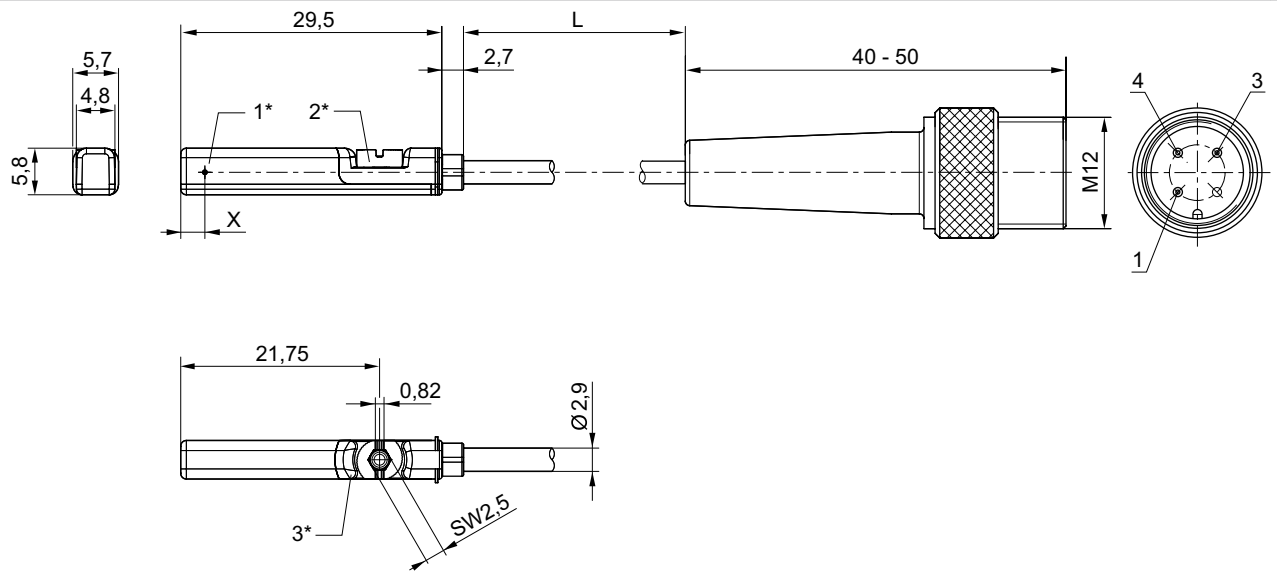
Piston rod cylinders ▶ Standard cylinders

**ISO 1552, Series ITS**  
Accessories

	Type of contact	Cable length	Voltage drop U at I <sub>max</sub>	DC switching current, max.	Max. switching frequency kHz	Part No.
		[m]		[A]		
	electronic PNP	0.3	≤ 2,5 V	0.1	< 1,0	<b>R412022864</b>

interfaces: Plug; M12; 3-pin; with knurled screw  
short circuit resistant / Protected against polarity reversal

**Dimensions**



1\* = switching point 2\* = locking screw 3\* = LED window, transparent  
L = cable length  
X = PNP: 11,6 mm  
Pin assignment: 1 = (+), 3 = (-), 4 = (OUT)

24623

**Sensor, Series SN2**

▶ with cable ▶ without wire end ferrule, tin-plated, 2-pin, without wire end ferrule, tin-plated, 3-pin



00105970\_2







Ambient temperature min./max.  
Protection class  
Switching point precision [mm]

See table below  
IP67  
±0,1

**Technical Remarks**

- If reed sensors are used, we recommend using a short-circuit protective device (SCPD).

**ISO 1552, Series ITS**  
 Accessories

	Type of contact	Cable sheath	Cable length	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Part No.
			[m]	[V AC]		[A]	[A]	
	Reed	Polyvinyl chloride	3	0 / 240	Rs*I <sub>max</sub> .	0.13	0.13	<b>0830100315</b>
		Thermoplastic elastomer	3	12 / 240	2,1 V + I*Rs	0.12	0.12	<b>0830100317</b>
		Polyvinyl chloride	3	12 / 240	2,1 V + I*Rs	0.13	0.13	<b>0830100365</b>
		Polyvinyl chloride	5	12 / 240	2,1 V + I*Rs	0.13	0.13	<b>0830100366</b>
		Polyurethane	3	12 / 240	2,1 V + I*Rs	0.13	0.13	<b>0830100367</b>
		Polyvinyl chloride	3	12 / 240	2,1 V + I*Rs	0.3	0.5	<b>0830100368</b>
		Polyvinyl chloride	5	12 / 240	2,1 V + I*Rs	0.3	0.5	<b>0830100369</b>
		Polyurethane	3	12 / 240	2,1 V + I*Rs	0.3	0.5	<b>0830100370</b>
	Reed	Polyvinyl chloride	3	12 / 42	I*Rs	0.13	0.13	<b>0830100371</b>
			5					<b>0830100372</b>
	electronic PNP	Polyvinyl chloride	3	10 / 30	≤ 2,0 V	0.13	-	<b>0830100375</b>
		Polyvinyl chloride	5					<b>0830100376</b>
		Polyurethane	3					<b>0830100377</b>
	Reed	Polyvinyl chloride	10	12 / 240	2,1 V + I*Rs	0.13	0.13	<b>0830100325</b>
		Polyvinyl chloride	7	12 / 240	2,1 V + I*Rs	0.3	0.5	<b>0830100327</b>
		-	3	0 / 240	Rs*I <sub>max</sub> .	0.13	-	<b>0830100316</b>
		-	3	0 / 240	Rs*I <sub>max</sub> .	0.13	-	<b>0830100373</b>
	electronic PNP	Thermoplastic elastomer	3	10 / 30	2,1 V + I*Rs	0.12	-	<b>0830100378</b>
	Reed	Thermoplastic elastomer	11	12 / 240	2,1 V + I*Rs	0.12	0.12	<b>0830100326</b>
		Polyvinyl chloride	20					R412004848

Part No.	Ambient temperature min./max.	Switching capacity	Protective resistor for reed	Vibration resistance	Shock resistance Max.	Max. switching frequency kHz	Operating current, not switched
	[°C]						
<b>0830100315</b>	-20°C / +80°C	10 W / 10 VA	27	-	-	< 0,3	
<b>0830100317</b>	-20°C / +120°C		27	30 g (50 - 1000 Hz)	100 g / 11 ms	-	
<b>0830100365</b>	-20°C / +80°C		27	30 g (50 - 1000 Hz)	50 g / 11 ms	-	
<b>0830100366</b>	-20°C / +80°C		27	30 g (50 - 1000 Hz)	50 g / 11 ms	-	
<b>0830100367</b>	-20°C / +80°C		27	30 g (50 - 1000 Hz)	50 g / 11 ms	-	-
<b>0830100368</b>	-20°C / +80°C		1,3	30 g (50 - 1000 Hz)	50 g / 11 ms	-	-
<b>0830100369</b>	-20°C / +80°C		1,3	30 g (50 - 1000 Hz)	50 g / 11 ms	-	-
<b>0830100370</b>	-20°C / +80°C		1,3	30 g (50 - 1000 Hz)	50 g / 11 ms	-	-
<b>0830100371</b> <b>0830100372</b>	-20°C / +80°C	5,5 W / 5,5 VA	27	30 g (50 - 1000 Hz)	100 g / 11 ms	-	-

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**Piston rod cylinders ▶ Standard cylinders**
**ISO 15552, Series ITS**  
**Accessories**

Part No.	Ambient temperature min./max. [°C]	Switching capacity	Protective resistor for reed	Vibration resistance	Shock resistance Max.	Max. switching frequency kHz	Operating current, not switched
<b>0830100375</b> <b>0830100376</b> <b>0830100377</b>	-10°C / +70°C	-	-	-	-	< 2,0	< 10 mA
<b>0830100325</b> <b>0830100327</b> <b>0830100316</b> <b>0830100373</b>	-20°C / +80°C	10 W / 10 VA	27 1,3 1,3 100	30 g (50 - 1000 Hz) 30 g (50 - 1000 Hz) - -	50 g / 11 ms 50 g / 11 ms - -	- - < 0,3 < 0,3	- - - -
<b>0830100378</b>	-20°C / +120°C	10 W / 10 VA	27	30 g (50 - 1000 Hz)	100 g / 11 ms	-	-
<b>0830100326</b> R412004848	-20°C / +120°C -20°C / +80°C	10 W / 10 VA	27	30 g (50 - 1000 Hz)	100 g / 11 ms 50 g / 11 ms	-	-

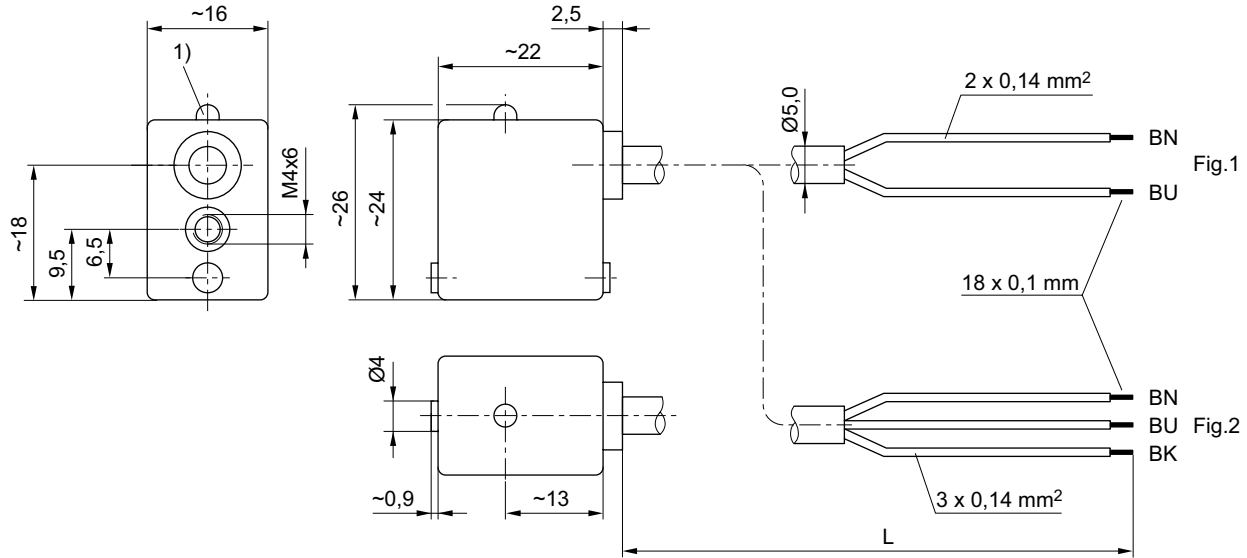
Part No.	Operating current, switched	LED	Note
<b>0830100315</b> <b>0830100317</b> <b>0830100365</b> <b>0830100366</b> <b>0830100367</b> <b>0830100368</b> <b>0830100369</b> <b>0830100370</b>	-	- - Yellow Yellow Yellow Yellow Yellow Yellow	1); 3); 5)
<b>0830100371</b> <b>0830100372</b>	-	Yellow	1); 3); 5)
<b>0830100375</b> <b>0830100376</b> <b>0830100377</b>	< 15 mA	Yellow	2); 3); 6)
<b>0830100325</b> <b>0830100327</b> <b>0830100316</b> <b>0830100373</b>	-	Yellow Yellow - -	1); 3); 5)
<b>0830100378</b>	-	-	2); 3); 5)
<b>0830100326</b> R412004848	-	- Yellow	1); 3); 5) 1); 4); 5)

- 1) interfaces: without wire end ferrule, tin-plated; 2-pin  
 2) interfaces: without wire end ferrule, tin-plated; 3-pin  
 3) Material Housing: Polyamide  
 4) Material Housing: epoxy resin  
 5) Protected against polarity reversal  
 6) short circuit resistant / Protected against polarity reversal

## ISO 1552, Series ITS

### Accessories

#### Dimensions



00111946\_a

1) LED  
 L = cable length  
 BN = brown, BK = black, BU = blue

## Sensor, Series SN2

▶ Plug, M8, 2-pin, Plug, M8, 3-pin, Plug, M8, 4-pin



00105970\_1

Ambient temperature min./max.  
 Protection class  
 Switching point precision [mm]

See table below  
 IP67  
 $\pm 0,1$

#### Technical Remarks

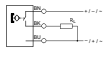
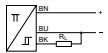
- If reed sensors are used, we recommend using a short-circuit protective device (SCPD).

	Type of contact	DC operating voltage	Operational voltage AC	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Part No.
		min./max.	min./max.		[A]	[A]	
		[V DC]	[V AC]				
	Reed	-	12 / 30	2,1 V + I*Rs	0.13 0.3	0.13 0.5	<b>0830100465</b> <b>0830100468</b>
	Reed	-	12 / 30	I*Rs	0.13	0.13	<b>0830100469</b>
	Reed	-	12 / 30	≤ 3,5 V	0.13	0.13	<b>0830100467</b>
	electronic PNP	-	12 / 30	≤ 2,0 V	0.13	-	<b>0830100480</b>



Piston rod cylinders ▶ Standard cylinders

ISO 1552, Series ITS  
Accessories

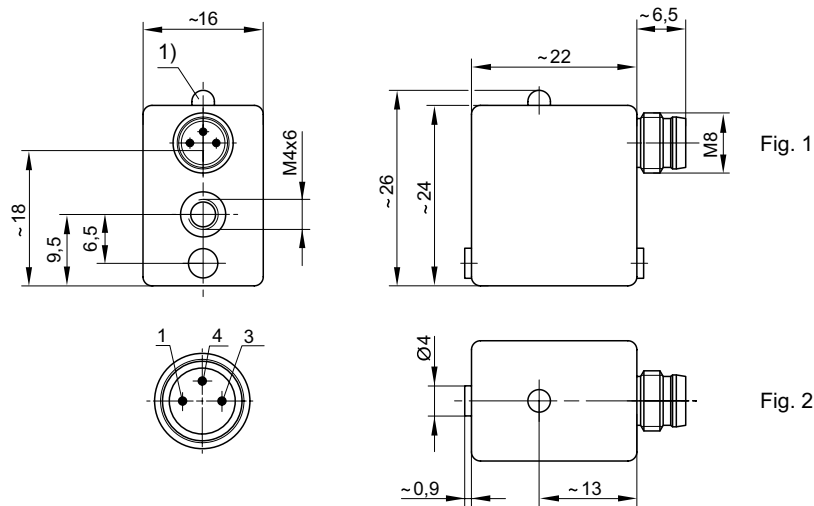
	Type of contact	DC operating voltage min./max.	Operational voltage AC min./max.	Voltage drop U at I <sub>max</sub>	DC switching current, max.	AC switching current, max.	Part No.
		[V DC]	[V AC]		[A]	[A]	
	Reed	12 / 36	12 / 30	≤ 1,5 V	0.2	0.13	<b>0830100472</b>
		-		I*Rs	0.13		<b>R412004820</b>
		-		2,1 V + I*Rs	0.13		<b>R412004299</b>
		-		2,1 V + I*Rs	0.13		<b>0830100466</b>
	electronic PNP	-	-	≤ 2,0 V	0.13	-	<b>R412004800</b>

Part No.	Function	Ambient temperature min./max.	Switching capacity	Protective resistor for reed	Vibration resistance	Shock resistance Max.	Max. switching frequency kHz
		[°C]					
<b>0830100465</b> <b>0830100468</b>	Reed 2-Wire	-20°C / +80°C	10 W / 10 VA	27 1,3	30 g (50 - 2000 Hz)	100 g / 11 ms	-
<b>0830100469</b>	Reed 3-Wire	-20°C / +80°C	5,5 W / 5,5 VA	27	30 g (50 - 1000 Hz)	100 g / 11 ms	-
<b>0830100467</b>	Reed 4-Wire	-20°C / +80°C	10 W / 10 VA	27	35 g (50 - 2000 Hz)	50 g / 11 ms	-
<b>0830100480</b>	electronic PNP	-10°C / +70°C	-	-	-	-	< 2,0
<b>0830100472</b>	Reed 3-Wire, with pulse stretching	-20°C / +70°C	5 W / 5 VA	-	35 g (50 - 2000 Hz)	50 g / 11 ms	-
<b>R412004820</b>	Reed 3-Wire	-20°C / +80°C	10 W / 10 VA	27	30 g (50 - 2000 Hz)	100 g / 11 ms	
<b>R412004299</b>	Reed 3-Wire	-20°C / +80°C	10 W / 10 VA	27	30 g (50 - 2000 Hz)	100 g / 11 ms	
<b>0830100466</b>	Reed 3-Wire	-20°C / +80°C	10 W / 10 VA	100	30 g (50 - 2000 Hz)	100 g / 11 ms	
<b>R412004800</b>	electronic PNP	-10°C / +70°C	-	-	-	-	< 2,0

Part No.	Operating current, not switched	Operating current, switched	LED	Fig.	Note
<b>0830100465</b> <b>0830100468</b>	-	-	Yellow	Fig. 1	1); 4); 6)
<b>0830100469</b>	-	-	Yellow	Fig. 1	2); 4); 6)
<b>0830100467</b>	-	-	Red	Fig. 2	3); 5); 6)
<b>0830100480</b>	< 10 mA	< 15 mA	Yellow	Fig. 1	2); 4); 7)
<b>0830100472</b> <b>R412004820</b> <b>R412004299</b> <b>0830100466</b>	-	-	Red Yellow Yellow Yellow	Fig. 1	2); 7); 8) 2); 5); 6) 2); 4); 6) 1); 4); 6)
<b>R412004800</b>	< 10 mA	< 15 mA	Yellow	Fig. 1	2); 5); 7)

- 1) interfaces: Plug; M8; 2-pin
- 2) interfaces: Plug; M8; 3-pin
- 3) interfaces: Plug; M8; 4-pin
- 4) Material Housing: Polyamide
- 5) Material Housing: epoxy resin
- 6) Protected against polarity reversal
- 7) short circuit resistant / Protected against polarity reversal
- 8) With stretched impulse

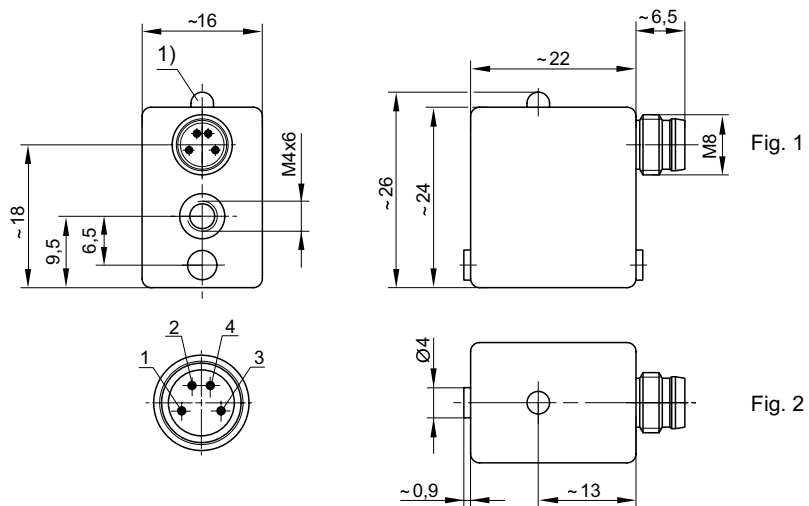
### ISO 15552, Series ITS Accessories

**Fig. 1**


1) LED

M8: combination plug can be combined with electrical connectors Ø6.5 mm and M8.

Pin assignments: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

**Fig. 2**


1) LED

M8: combination plug can be combined with electrical connectors Ø6.5 mm and M8.

Pin assignments: 1 = (+), 3 = (-), 4 = (OUT), EN 60947-5-2:1998

**Piston rod cylinders ▶ Standard cylinders**

**ISO 1552, Series ITS**  
Accessories

**Sensor, Series SN6**

▶ with cable ▶ without wire end ferrule, tin-plated, 2-pin ▶ heat resistant up to 120 °C



P894\_202

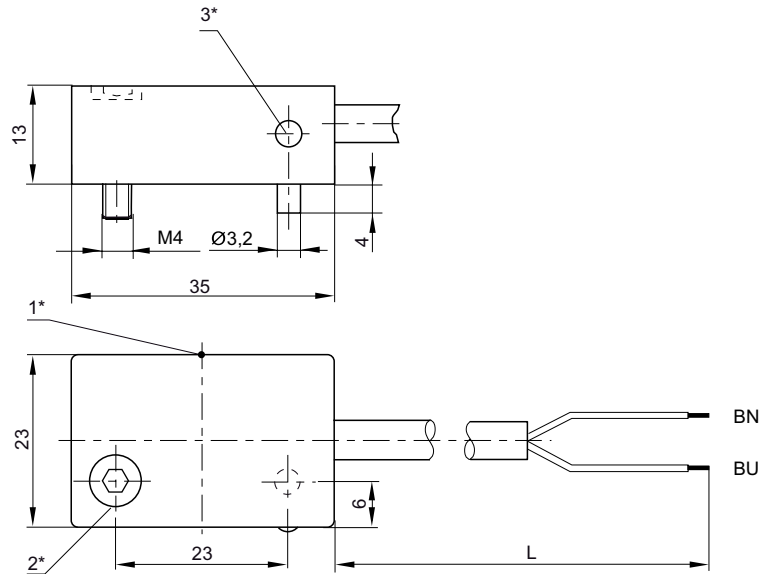
Ambient temperature min./max.	See table below
Protection class	IP67, IP65
Switching point precision [mm]	±0,1
LED status display	Yellow
Vibration resistance	35 g (50 - 2000 Hz)
Shock resistance	50 g / 11 ms

Materials:	
Housing	Polyester amide
Cable sheath	Polyvinyl chloride

	Type of contact	Cable length	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Ambient temperature min./max.	Switching capacity	Part No.
		[m]	[V AC]	[A]	[A]	[°C]		
	Reed	2.5 6	10 / 250	0.5	0.5	-25°C / +75°C	50 W / 50 VA	<b>8940412022</b> <b>8940412032</b>
	Reed	2.5	10 / 250	3	3	-20°C / +120°C	60 W / 60 VA	<b>8940411902</b>

interfaces: without wire end ferrule, tin-plated; 2-pin  
Protected against polarity reversal

**Dimensions**



00129942

1\* = switching point 2\* = clamping screw 3\* = LED  
L = cable length  
BN=brown, BU=blue

## ISO 15552, Series ITS

### Accessories

### Sensor, Series SN6

#### ▶ Plug, Form B, industry, 2-pin



P894\_060

Protection class	IP65
Switching point precision [mm]	±0,1
Vibration resistance	35 g (50 - 2000 Hz)
Shock resistance	50 g / 11 ms

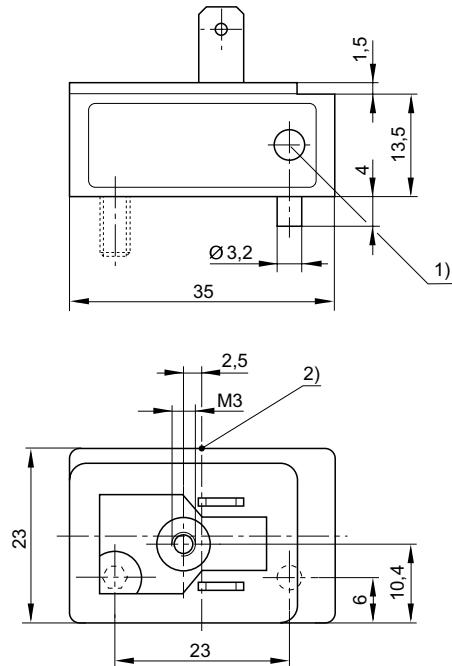
Materials:	
Housing	Polyester amide

	Type of contact	Operational voltage AC min./max. [V AC]	DC switching current, max. [A]	AC switching current, max. [A]	Ambient temperature min./max. [°C]	Switching capacity	LED	Part No.
	Reed	10 / 250	3	3	-25 °C / +75 °C	60 W / 60 VA	-	<b>8940410602</b>
	Reed	10 / 250	0.5	0.5	-25 °C / +75 °C	50 W / 50 VA	Yellow	<b>8940410612</b>

Part No.	Note
<b>8940410602</b>	-
<b>8940410612</b>	1)

1) Protected against polarity reversal  
interfaces: Plug; Form B, industry; 2-pin

### Dimensions



D894\_060\_c

- 1) LED  
2) Switching point

Piston rod cylinders ▶ Standard cylinders

ISO 15552, Series ITS  
Accessories

Sensor, Series SN6

▶ Plug, Form B, industry, 2-pin ▶ ATEX certified



00129777

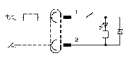
ATEX

Ambient temperature min./max.  
Protection class  
Switching point precision [mm]  
LED status display

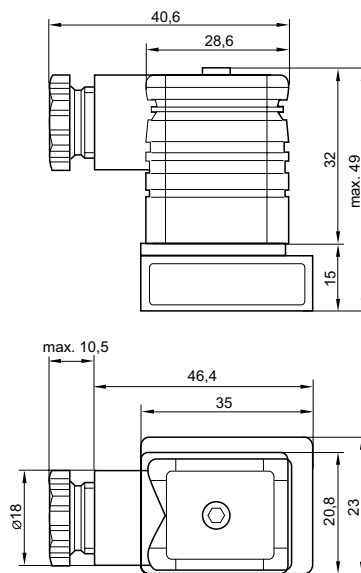
Materials:  
Housing

II 3G Ex nC nA IIC T4 Gc  
II 3D Ex tc IIIB/IIIC T125°C Dc -10°C ≤ Ta ≤ 50°C  
-10°C / +50°C  
IP65  
±0,1  
Yellow

Polyester amide

	Type of contact	DC operating voltage min./max.	Operational voltage AC min./max.	DC switching current, max.	AC switching current, max.	Part No.
		[V DC]	[V AC]	[A]	[A]	
	Reed	21.6 / 26.4	210 / 240	0.1	0.1	<b>R412000823</b>
interfaces: Plug; Form B, industry; 2-pin Protected against polarity reversal						

Dimensions



00129659

**ISO 15552, Series ITS**

## Accessories

**Sensors, Series SM6-AL**

▶ with cable ▶ Plug, M8x1, 4-pin ▶ with distance measuring sensor, measurement range 107 - 1007 mm ▶ IO-Link



18358

Certificates	cULus
Ambient temperature min./max.	-20°C / +70°C
Protection class	IP65, IP67
Output signal	0 - 10 V DC, 4 - 20 mA
Quiescent current (without load)	< 35 mA
Current signal	4 - 20 mA
Maximum load (analog current output)	500 Ω
DC operating voltage min./max.	15 V DC - 30 V DC
Residual ripple	≤ 10 %
sampling interval	1,15 ms
Resolution max. measuring range	typ. 0,03 % FSR
Repetitive precision max. measuring range	typ. 0,06 % FSR
Linearity deviation	0,5 mm
Sampling speed	1,5 m/s
Partial stroke	
Sampling speed	3 m/s
Full stroke	
Display	2 LED
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Aluminum
Cable sheath	Polyurethane
End caps	Polyamide

**Technical Remarks**

- Holders for cylinder series PRA are included in the scope of delivery. For cylinder series ITS, please order the appropriate holders separately.
- FSR: Full Scale Range, max. measurement range
- The IO-Link device description (IODD) for the SM6-AL distance measuring sensor is available for download in the Media Centre.

Piston rod cylinders ▶ Standard cylinders

**ISO 15552, Series ITS**  
Accessories

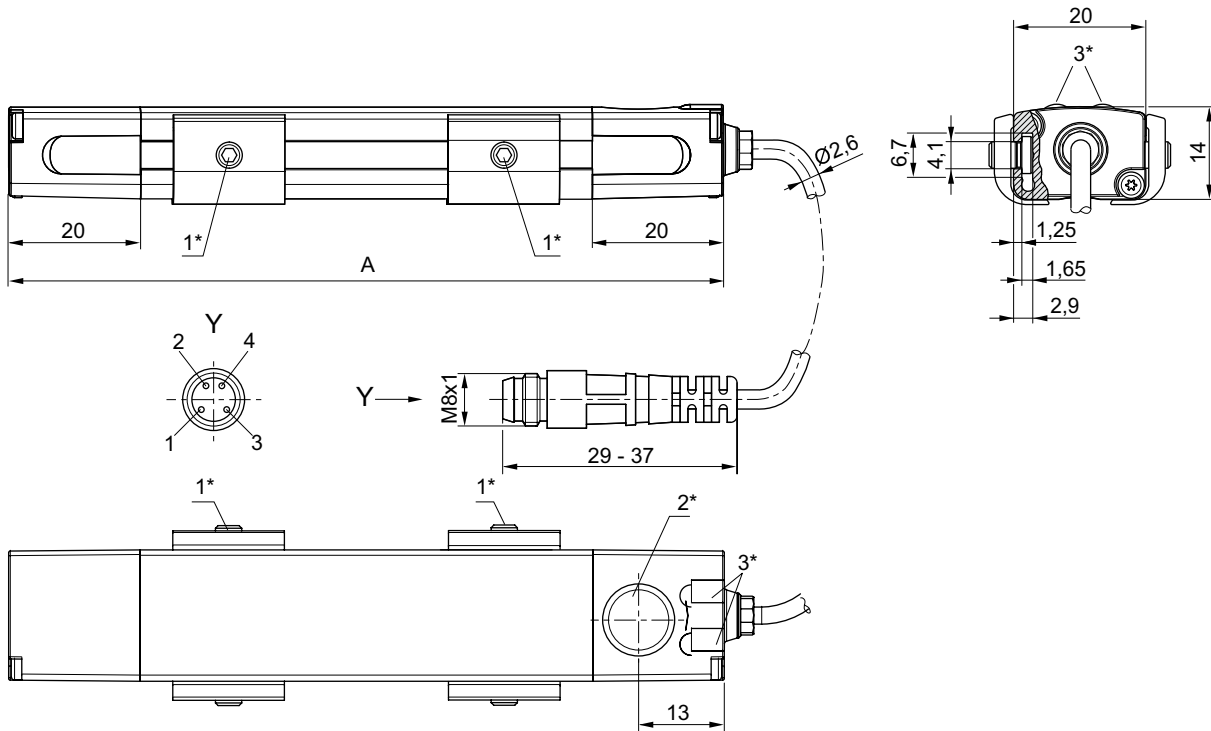
Type of contact	Cable length	Measurement range Max.	Overall length Sensor A	Incl. number of sensor clamp pairs	Part No.
	[m]	[mm]	[mm]	[piece]	
Analog	0.3	107	109	2	<b>R412010880</b>
		143	145	2	<b>R412010881</b>
		179	181	2	<b>R412010882</b>
		215	217	2	<b>R412010883</b>
		251	253	2	<b>R412010884</b>
		287	289	3	<b>R412010885</b>
		323	325	3	<b>R412010886</b>
		359	361	3	<b>R412010887</b>
		395	397	3	<b>R412010888</b>
		431	433	3	<b>R412010889</b>
		467	469	4	<b>R412010890</b>
		503	505	4	<b>R412010891</b>
		539	541	4	<b>R412010892</b>
		575	577	4	<b>R412010893</b>
		611	613	4	<b>R412010894</b>
		647	649	4	<b>R412010895</b>
		683	685	5	<b>R412010896</b>
		719	721	5	<b>R412010897</b>
		755	757	5	<b>R412010898</b>
		791	793	5	<b>R412010899</b>
827	829	6	<b>R412010900</b>		
863	865	6	<b>R412010901</b>		
899	901	6	<b>R412010902</b>		
935	937	6	<b>R412010903</b>		
971	973	6	<b>R412010904</b>		
1007	1009	6	<b>R412010905</b>		

interfaces: Plug; M8x1; 4-pin  
short circuit resistant / Protected against polarity reversal / Overload protection

## ISO 15552, Series ITS

### Accessories

#### Dimensions



16407

1\* = threaded pin M3x11 2\* = teach area 3\* = LED

A = sensor length

Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2/IO-Link), EN 60947-5-7

LED 1: yellow = measuring operation, red = error

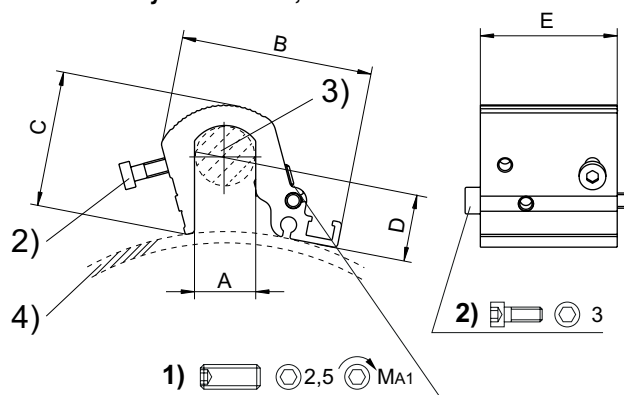
LED 2: green = voltage signal, blue = current signal

## Sensor mounting, Series CB1

▶ for Series ST6, SN2, SN6, SN1, SM6, SM6-AL ▶ to mount on cylinder C12P, ITS



21464



21268

1) Clamping threaded pin 2) Mounting screws for sensor 3) Tie rod 4) Cylinder profile



## Piston rod cylinders ▶ Standard cylinders

### ISO 15552, Series ITS Accessories

Part No.	Cylinders Ø [mm]	For series	A	B	C	D	E	MA1 [Nm]	Material
<b>R412017979</b>	160 - 200	ST6, SN2, SN6, SN1, SM6, SM6-AL	16	51	36	6.8	36	2	Aluminum
<b>R412017980</b>	250 - 320	ST6, SN2, SN6, SN1, SM6, SM6-AL	24	56	44.5	6.8	36	2	Aluminum

Part No.	Weight [kg]										
<b>R412017979</b>	0.058										
<b>R412017980</b>	0.073										

Scope of delivery: Incl. mounting screws

### Connecting cable, Series CN2

▶ Socket, M8, 3-pin, straight ▶ open cable ends, 3-pin



00107009\_b

Ambient temperature min./max.

-40°C / +85°C

Protection class

IP65

Materials:

Cable sheath

Polyurethane

#### Technical Remarks

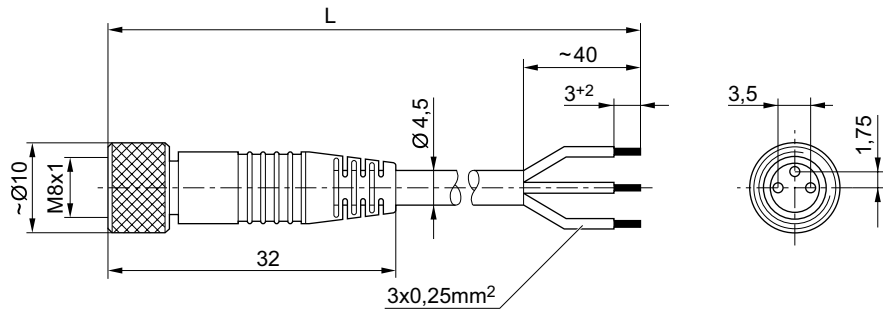
- The specified protection class is only valid in assembled and tested state.

Max. current	Number of wires	Wire cross-section	Cable-Ø	Cable length L	Weight	Part No.
[A]		[mm <sup>2</sup> ]	[mm]	[m]	[kg]	
4	3	0.24	4.5	3	0.091	<b>1834484166</b>
				5	0.145	<b>1834484168</b>
				10	0.33	<b>1834484247</b>

## ISO 15552, Series ITS

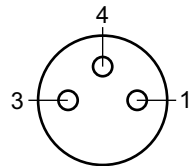
### Accessories

#### Dimensions



L = length

#### Pin assignment



Buchse\_3-polig

- (1) BN=brown
- (3) BU=blue
- (4) BK=black

## Connecting cable, Series CN2

▶ Socket, M8x1, 3-pin, angled ▶ open cable ends, 3-pin



00107009\_c

Ambient temperature min./max.

-40 °C / +85 °C

Protection class

IP65

Materials:

Cable sheath

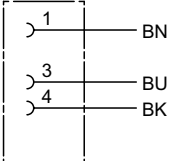
Polyurethane

#### Technical Remarks

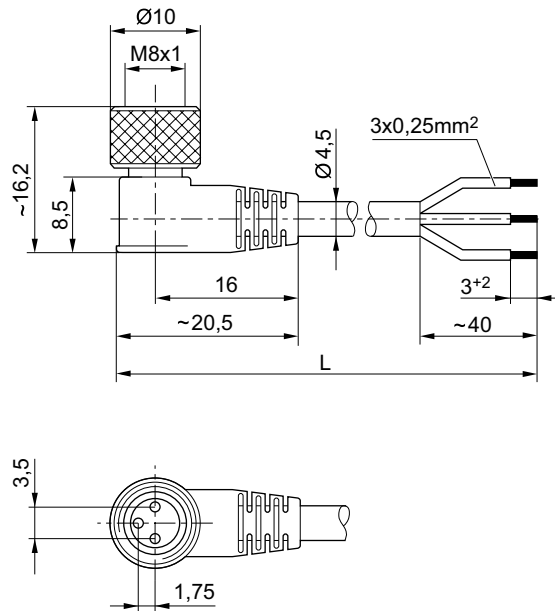
- The specified protection class is only valid in assembled and tested state.

## Piston rod cylinders ▶ Standard cylinders

### ISO 15552, Series ITS Accessories

	Max. current	Number of wires	Wire cross-section	Cable-Ø	Cable length L	Weight	Part No.
	[A]		[mm <sup>2</sup> ]	[mm]	[m]	[kg]	
	4	3	0.24	4.5	3	0.092	<b>1834484167</b>
					5	0.141	<b>1834484169</b>
					10	0.276	<b>1834484248</b>

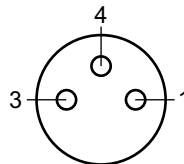
### Dimensions



00105612\_b

L = length

### Pin assignment



Buchse\_3-polig

- (1) BN=brown
- (3) BU=blue
- (4) BK=black

## ISO 15552, Series ITS

### Accessories

## Socket, M8x1, Series CN2

### ▶ Socket, M8x1, 3-pin



00138877

Ambient temperature min./max.

-25°C / +80°C

Protection class

IP67

Materials:

Housing

Polyamide

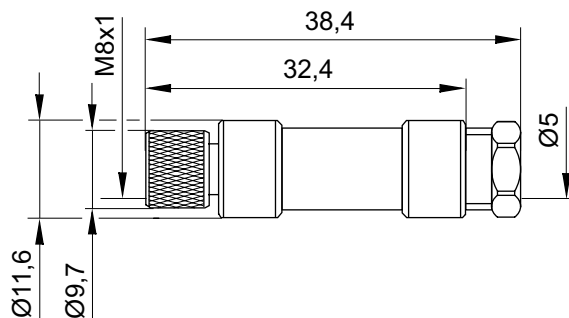
#### Technical Remarks

- The specified protection class is only valid in assembled and tested state.

	Operational voltage	Max. current	Cable exit	suitable cable-Ø min./max	number of plug options 1	Housing color	Part No.
	AC						
	[V]	[A]		[mm]			
	48	4	straight	3.5 / 5	1 position	Black	<b>1834484173</b>

Part No.	Weight
	[kg]
<b>1834484173</b>	0.008

#### Dimensions

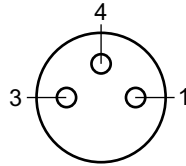


16405

Piston rod cylinders ▶ Standard cylinders

**ISO 1552, Series ITS**  
Accessories

Pin assignment



Buchse\_3-polig

**Socket, M8x1, Series CN2**  
▶ Socket, M8x1, 3-pin, angled



16406

Ambient temperature min./max.  
Protection class

-25°C / +85°C  
IP65

Materials:  
Housing

Polyamide

Technical Remarks

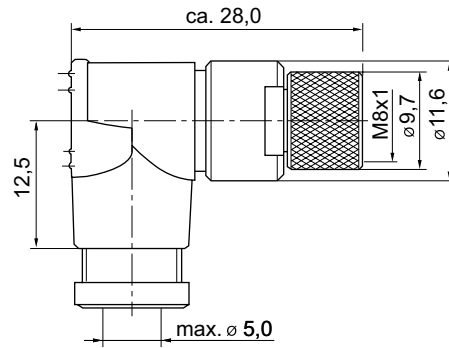
- The specified protection class is only valid in assembled and tested state.

	Operational voltage	Max. current	Contact assignment	Cable exit	suitable cable-Ø min./max	number of plug options <sup>1</sup>	Part No.
	AC						
	[V]	[A]			[mm]		
	48	4	3	angled 90°	3.5 / 5	1 position	<b>1834484174</b>

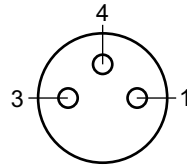
Part No.	Housing color	Weight
		[kg]
<b>1834484174</b>	Black	0.008

**ISO 15552, Series ITS**  
Accessories

## Dimensions



## Pin assignment



Buchse\_3-polig

Piston rod cylinders ▶ Standard cylinders

ISO 15552, Series ITS  
Accessories

Compressed air tubing, Series TU1-S

▶ Ø 14 - 16 mm ▶ Max. working pressure at 20 °C: 10 bar ▶ Polyester polyurethane



Ambient temperature min./max.  
Max. working pressure at 20 °C

-30 °C / +80 °C  
10 bar

Material

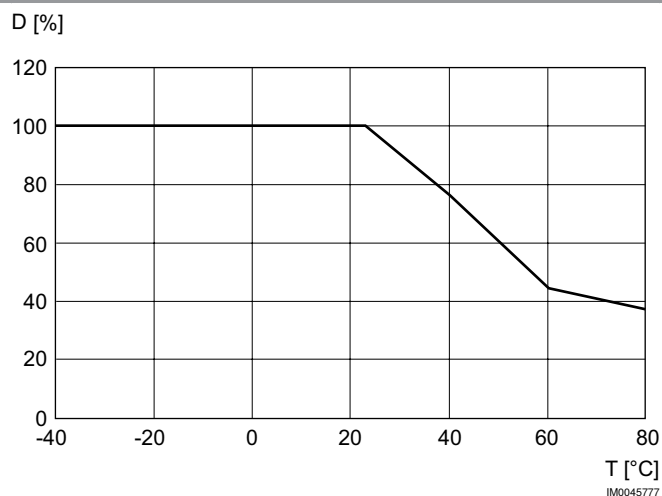
Polyester polyurethane

Technical Remarks

- External calibrated
- Suitable for dynamic laying
- Halogen-free

Diameter external	Wall thickness	Bending radius min. At 20 °C	Weight per meter	Color	Length	Part No.
[mm]	[mm]	[mm]	[kg]		[m]	
14	2	55	0.092	Black	25	<b>R412004778</b>
					100	R412004779
16	2.5	65	0.129	Black	25	<b>R412004780</b>
					100	<b>R412004781</b>

Pressure-Temperature-Diagram



D = pressure resistance  
T = temperature

## ISO 15552, Series ITS

### Accessories

## Compressed air tubing, Series TU1

▶ Ø 14 - 16 mm ▶ Max. working pressure at 20 °C: 10 - 15 bar ▶ Polyamide



00127734

Ambient temperature min./max.

-40°C / +80°C

Material

Polyamide

### Technical Remarks

- External calibrated

Diameter external	Wall thickness	Max. working pressure at 20 °C	Bending radius min. At 20 °C	Weight per meter	Color	Length	Part No.
[mm]	[mm]	[bar]	[mm]	[kg]		[m]	
14	1.25	11	90	0.052	Blue	25	<b>R412009927</b>
	1.25	11			Black	50	<b>R412009936</b>
	1.5	15			Natural	25	<b>1820712104</b>
16	1.35	10	100	0.065	Blue	25	<b>R412009929</b>
						50	<b>R412009930</b>

## Reducing nipple

▶ external thread ▶ G 1 ▶ Internal thread ▶ G 3/8 - G 3/4 ▶ FPT-S-RDZ



00110616

Ambient temperature min./max.

-20°C / +80°C

Working pressure min./max.

0 bar / 16 bar

Materials:

Screw

Brass, nickel-plated

Housing

Brass, nickel-plated

Seal

Polyvinyl chloride, hard

Thread

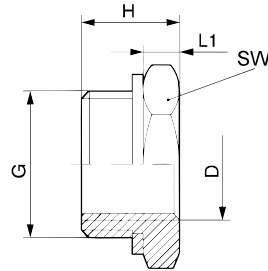
Brass, nickel-plated



## Piston rod cylinders ▶ Standard cylinders

### ISO 1552, Series ITS Accessories

#### Dimensions



00107921

Part No.	Port D	Port G	H	L1	SW	Delivery quantity [Piece]						
<b>1823391303</b>	G 3/8	G 1	15	8	41	2						
<b>1823391304</b>	G 1/2	G 1	15	8	41	2						
<b>1823391285</b>	G 3/4	G 1	15	8	41	2						

### Straight fitting

#### ▶ G 3/4



22635

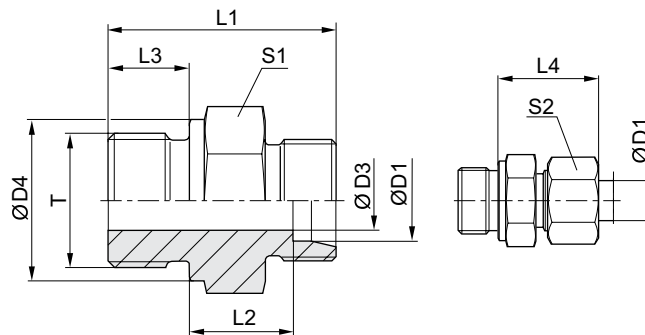
Ambient temperature min./max.  
Working pressure min./max.

-20°C / +150°C  
0 bar / 10 bar

Materials:  
Screw

Steel

#### Dimensions



21312

Part No.	Port G	ØD1	ØD3	ØD4	L1	L2	L3	L4	S1	S2	T
<b>8938028550</b>	G 3/4	18	15	32	38	14,5	16	30	32	32	G3/4
<b>8938028560</b>	G 3/4	22	18	32	40	16,5	16	33	32	36	G3/4

Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

Pneumatics catalog, online PDF, as of 2017-04-27, ©AVENTICS S.à r.l., subject to change

**ISO 15552, Series ITS**

## Accessories

**Banjo connection**

## ▶ G 3/4 - G 1



22637

Ambient temperature min./max.

-20°C / +150°C

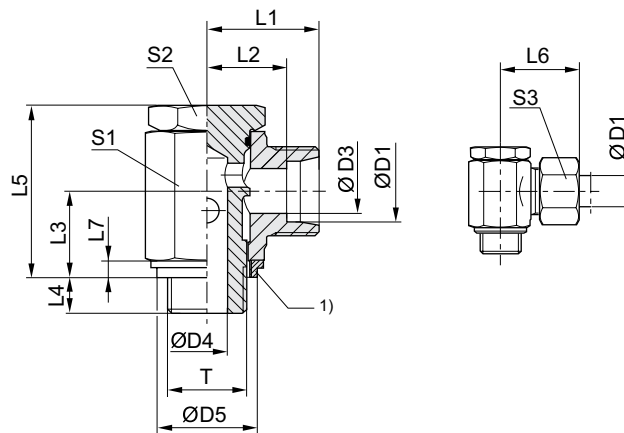
Working pressure min./max.

0 bar / 10 bar

Materials:

Screw

Steel

**Dimensions**


21310

1) Sealing edge ring

Part No.	Port G	ØD1	ØD3	ØD4	ØD5	L1	L2	L3	L4	L5	L6	L7
8939013760	G 3/4	22	19	18	32	33	25,5	24	13	49	42	3,5
R415004988	G 1	28	24	22	39	39	31,5	32	18	64	48	
Part No.	S1	S2	S3	T								
8939013760	36	32	36	G3/4								
R415004988	50	22	41	G1								

Piston rod cylinders ▶ Standard cylinders

ISO 1552, Series ITS  
Accessories

Silencers, Series SI1  
▶ Sintered bronze



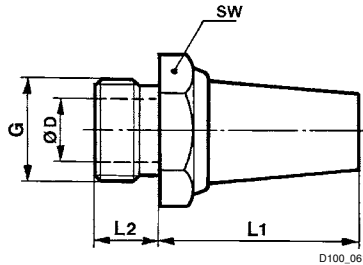
P100\_060

Working pressure min./max. 0 bar / 10 bar  
Ambient temperature min./max. -25°C / +80°C  
Medium Compressed air

Materials: Sintered bronze  
Silencers  
Thread Brass

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[l/min]	[piece]	[kg]	
G 3/4	92	8800	1	0.13	<b>1827000004</b>
G 1	102	11100	1	0.18	<b>1827000005</b>

Dimensions



Part No.	Port G	SW	Ø D	L1	L2						
1827000004	G 3/4	32	19	66	14						
1827000005	G 1	41	25	66	16						

Sound pressure level measured at 6 bar at 1 m distance

AVENTICS GmbH  
Ulmer Straße 4  
30880 Laatzen, GERMANY  
Phone +49 511 2136-0  
Fax +49 511 2136-269  
www.aventics.com  
info@aventics.com



Find more contact information at  
[www.aventics.com/contact](http://www.aventics.com/contact)

Only use the AVENTICS products shown in industrial applications. Read the product documentation completely and carefully before using the product.

Observe the applicable regulations and laws of the respective country. When integrating the product into applications, note the system manufacturer's specifications for safe use of the product.

The data specified only serve to describe the product.

No statements concerning a certain condition or suitability for a certain application can be derived from our information.

The information given does not release the user from the obligation of own judgment and verification. It must be remembered that the products are subject to a natural process of wear and aging.

27-04-2017

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS S.à r.l.  
This document, as well as the data, specifications and other information set forth in it, are the exclusive property of AVENTICS S.à r.l.. It may not be reproduced or given to third parties without its consent. PDF online