

Piston rod cylinders ▶ Standard cylinders

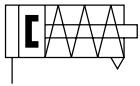
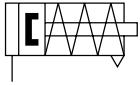
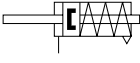
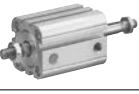
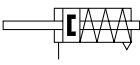
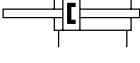
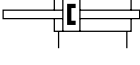
ISO 21287, series CCI

Brochure



Piston rod cylinders ► Standard cylinders

ISO 21287, series CCI

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Piston rod cylinders ▶ Standard cylinders
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Silencers, Series SI1
 ▶ Sintered bronze

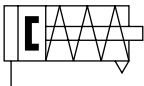
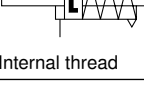
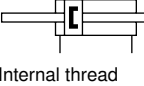
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Compact cylinder ISO 21287, Series CCI

▶ Overview of variants

Configurable product

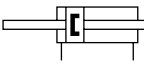
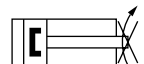
The options listed in the following table are configurable.
Note that not all variants can be combined with all options.
Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Version	Data sheet of the variant	Option: piston rod extension	Option: extended piston rod thread	Option: hollow piston rod	Option: heat resistant	Option: ATEX	Optional stroke lengths
 Internal thread		✓	-	-	✓	-	✓
 external thread		✓	✓	-	✓	-	✓
 Internal thread		✓	-	-	✓	-	✓
 external thread		✓	✓	-	✓	-	✓
 Internal thread		✓	-	-	✓	-	✓
 external thread		✓	✓	✓	✓	-	✓
 Internal thread		✓	-	-	✓	✓	✓
 external thread		✓	✓	-	✓	✓	✓
 Internal thread		✓	-	-	✓	✓	✓

Piston rod cylinders ▶ Standard cylinders

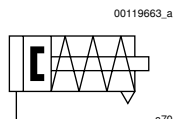
Compact cylinder ISO 21287, Series CCI

▶ Overview of variants

Version	Data sheet of the variant	Option: piston rod extension	Option: extended piston rod thread	Option: hollow piston rod	Option: heat resistant	Option: ATEX	Optional stroke lengths
 external thread		✓	✓	✓	✓	✓	✓
 Internal thread		-	-	-	✓	-	✓

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

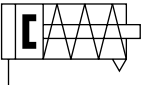
Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[lbf]	2.7	2.92	5.62	7.87	9.67
Extracting piston force	[lbf]	21.13	33.94	52.6	87	139.83
Impact energy	[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.134	0.222	0.522	0.681
	+10 mm stroke	[lbs]	0.0352	0.0507	0.0573	0.0947
Stroke max.	[inch]	0.9842	0.9842	0.9842	0.9842	0.9842

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[lbf]	18.43	18.43	23.6	48.33
Extracting piston force	[lbf]	214.23	351.81	573.46	883.46
Impact energy	[inch]	0.472	0.5531	0.5531	0.7375
Weight	0 mm stroke	[lbs]	1.018	1.549	2.517
	+10 mm stroke	[lbs]	0.1543	0.1918	0.2557
Stroke max.	[inch]	0.9842	0.9842	0.9842	0.9842

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread

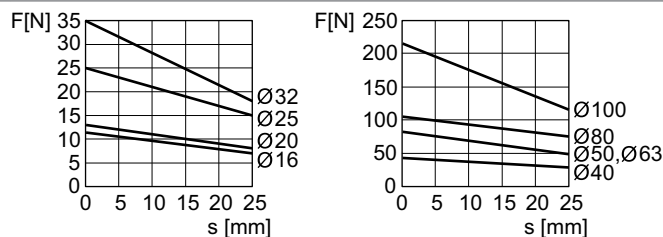
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M4 M5 8	20 M6 M5 10	25 M6 M5 10	32 M8 G 1/8 12	40 M8 G 1/8 12
	Stroke 0.2	R422001392	R422001393	R422001394	R422001395	R422001396
	0.39	R422001402	R422001403	R422001404	R422001405	R422001406
	0.59	R422001412	R422001413	R422001414	R422001415	R422001416
	0.79	R422001422	R422001423	R422001424	R422001425	R422001426
	0.98	R422001432	R422001433	R422001434	R422001435	R422001436
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M10 G 1/8 16	63 M10 G 1/8 16	80 M12 G 1/8 20	100 M12 G 1/8 25	
	Stroke 0.2	R422001397	R422001398	R422001399	R422001400	
	0.39	R422001407	R422001408	R422001409	R422001410	
	0.59	R422001417	R422001418	R422001419	R422001420	
	0.79	R422001427	R422001428	R422001429	R422001430	
	0.98	R422001437	R422001438	R422001439	R422001440	

Configurable product



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

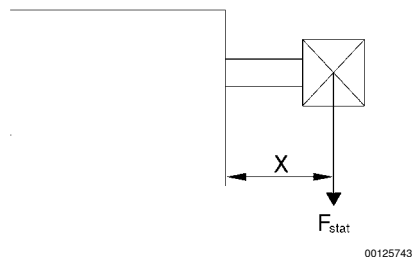
Retracting piston force



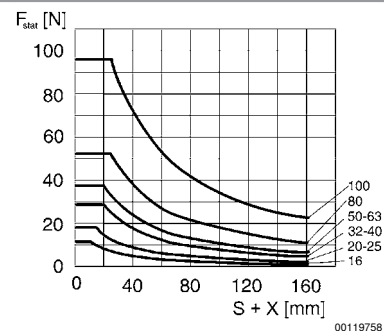
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F = spring return force, s = return stroke

Maximum permissible lateral force, Static



00125743



00119758

F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

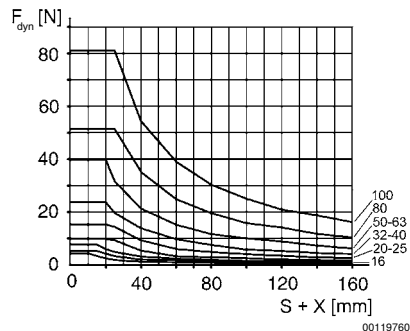
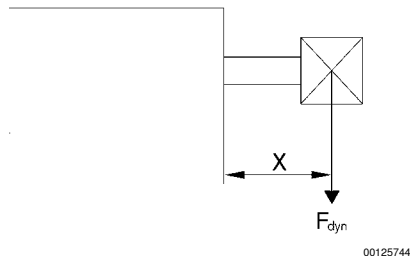
All dimensions in mm, unless specified otherwise.

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

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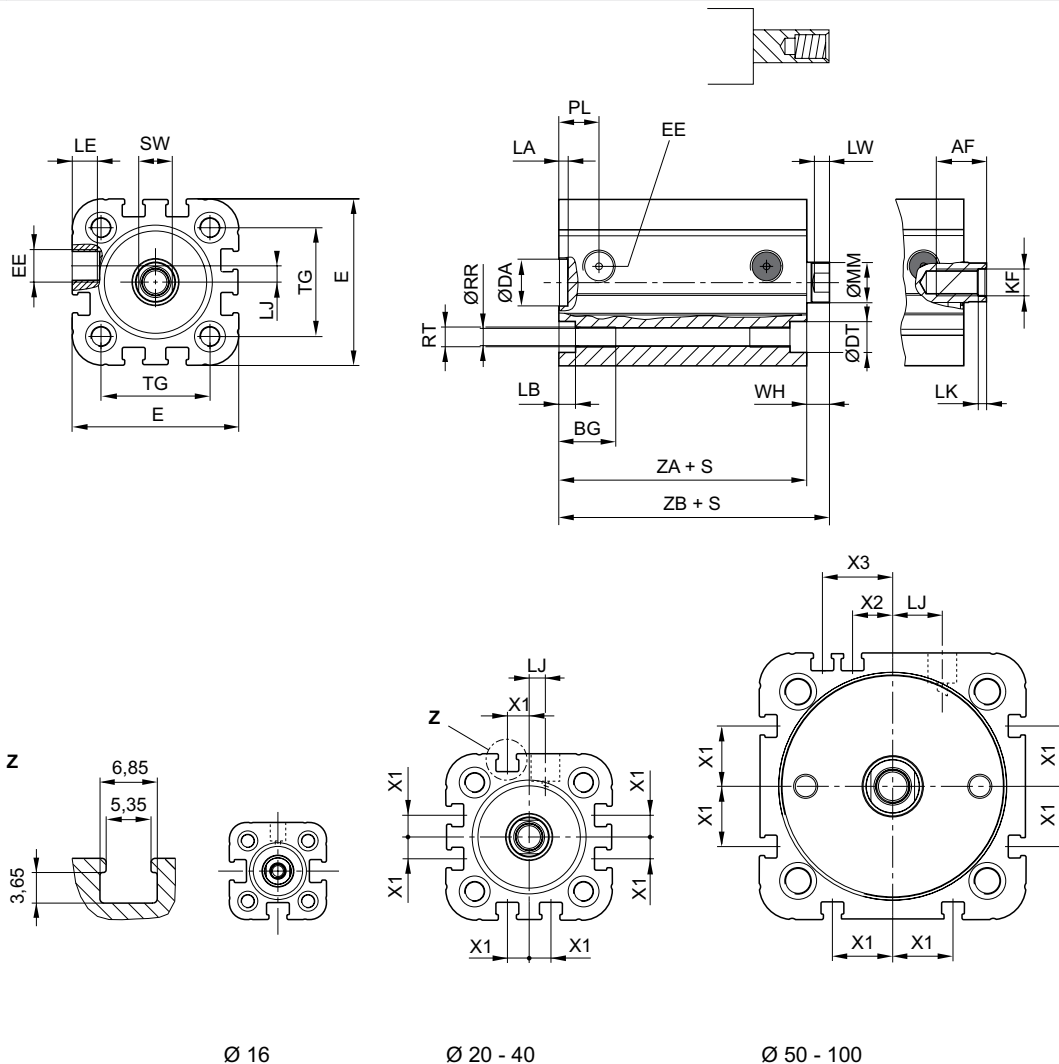
Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread

Maximum permissible lateral force, Dynamic

 F_{dyn} = dynamic lateral force

 X = spacing between force application point and cylinder cover

 S = stroke

Ø 16 - 100 mm


00119657_a

 S = stroke

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
▶ Piston rod: Internal thread

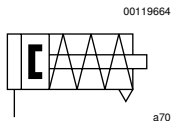
Piston Ø	AF	BG	DA H11	DT	E	EE	KF	KV	LA	LB	LE	LJ	MM f8
16	10	15	10	6	29.3	M5	M4	10	2.5	3.5	4.5	0	8
20	12	15.5	12	7.5	36.3	M5	M6	13	2.5	4.5	4.5	4.5	10
25	12	15.5	12	8	40.3	M5	M6	13	2.5	4.5	4.5	4	10
32	12	17	14	9.2	50	G 1/8	M8	17	2.5	5	7.5	4.85	12
40	12	17	14	9.2	58	G 1/8	M8	17	2.5	5	7.5	9.85	12
50	16	17	18	11	68.3	G 1/8	M10	19	2.5	5	7.5	12	16
63	16	17	18	11	80	G 1/8	M10	19	2.5	5	7.5	14.8	16
80	20	20	23	15	96	G 1/8	M12	24	3	5	7.5	22	20
100	20	20	28	15	116	G 1/8	M12	24	3	5	7.5	27	25

Piston Ø	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA	ZB 1)
16	8	3.3	M4	7	18	4,8 ±0,9	–	–	–	34,9 ±0,1	39,7 ±0,8
20	11	4.2	M5	8	22	6,3 ±0,9	4.2	–	–	37,3 ±0,1	43,6 ±0,8
25	11	4.2	M5	8	26	5,6 ±0,9	4.5	–	–	39 ±0,1	44,5 ±0,9
32	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1	51,4 ±1
40	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1	52,4 ±1
50	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1
63	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1
80	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

- ▶ **Ports:** M5 - G 1/8 ▶ **Single-acting, retracted without pressure** ▶ **with magnetic piston** ▶ **Cushioning: elastic**
 ▶ **Piston rod: external thread**



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for cylinder mounting	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

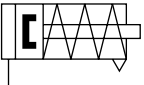
Piston Ø		[mm]	16	20	25	32	40
Retracting piston force		[lbf]	2.7	2.92	5.62	7.87	9.67
Extracting piston force		[lbf]	21.13	33.94	52.6	87	139.83
Impact energy		[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.145	0.279	0.335	0.573	0.731
	+10 mm stroke	[lbs]	0.0352	0.0507	0.0573	0.0947	0.1146
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842	0.9842

Piston Ø		[mm]	50	63	80	100	
Retracting piston force		[lbf]	18.43	18.43	23.6	48.33	
Extracting piston force		[lbf]	214.23	351.81	573.46	883.46	
Impact energy		[inch]	0.472	0.5531	0.5531	0.7375	
Weight	0 mm stroke	[lbs]	1.104	1.635	2.696	5.026	
	+10 mm stroke	[lbs]	0.1543	0.1918	0.2557	0.3703	
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842	

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread

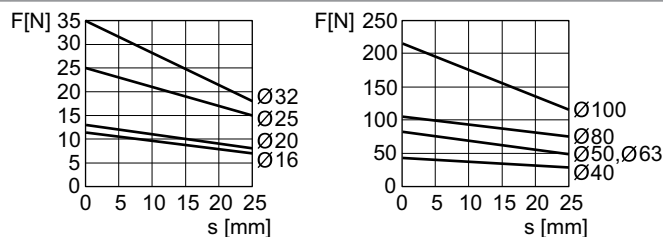
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M6x1 M5 8	20 M8x1,25 M5 10	25 M8x1,25 M5 10	32 M10x1,25 G 1/8 12	40 M10x1,25 G 1/8 12
	Stroke 0.2	R422001442	R422001443	R422001444	R422001445	R422001446
	0.39	R422001452	R422001453	R422001454	R422001455	R422001456
	0.59	R422001462	R422001463	R422001464	R422001465	R422001466
	0.79	R422001472	R422001473	R422001474	R422001475	R422001476
	0.98	R422001482	R422001483	R422001484	R422001485	R422001486
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M12x1,25 G 1/8 16	63 M12x1,25 G 1/8 16	80 M16x1,5 G 1/8 20	100 M16x1,5 G 1/8 25	
	Stroke 0.2	R422001447	R422001448	R422001449	R422001450	
	0.39	R422001457	R422001458	R422001459	R422001460	
	0.59	R422001467	R422001468	R422001469	R422001470	
	0.79	R422001477	R422001478	R422001479	R422001480	
	0.98	R422001487	R422001488	R422001489	R422001490	

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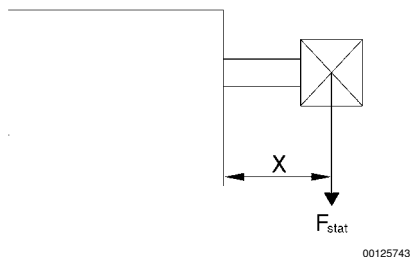
Retracting piston force



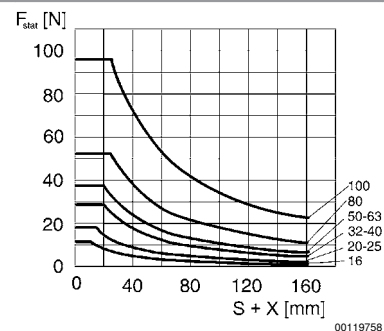
00112000

F = spring return force, s = return stroke

Maximum permissible lateral force, Static



00125743



00119758

F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

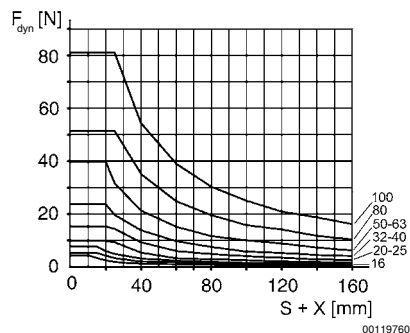
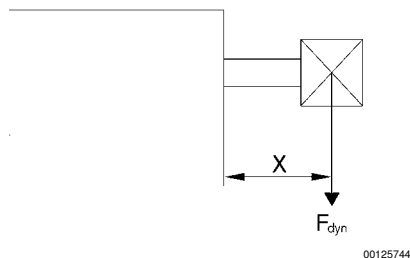
All dimensions in mm, unless specified otherwise.

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Compact cylinder ISO 21287, Series CCI

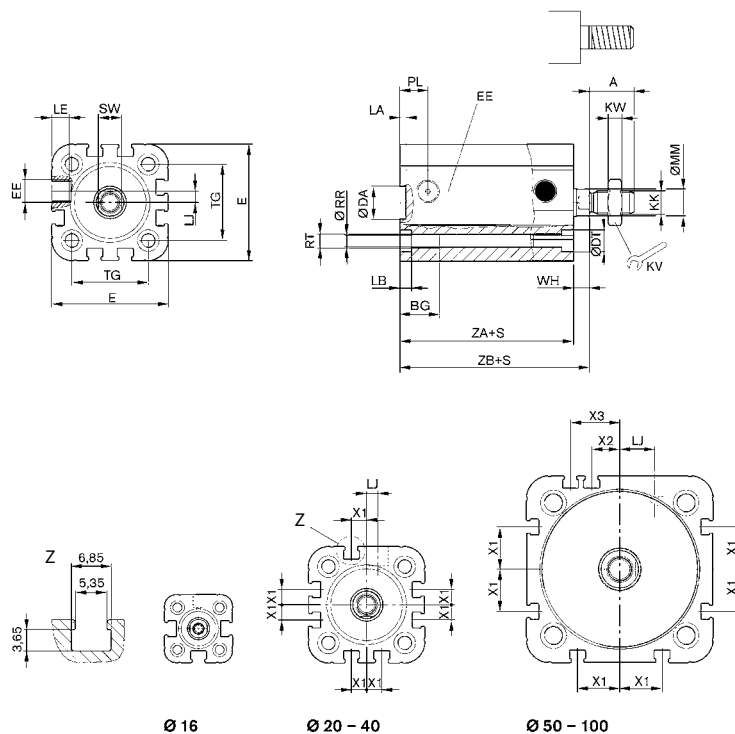
- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: external thread

Maximum permissible lateral force, Dynamic


F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

S = stroke

Ø 16 - 100 mm


S = stroke

Piston Ø	A *)	BG	DA H11	DT	E	EE	KK	KV	KW	LA	LB	LE	LJ
16	12	15	10	6	29.3	M5	M6	10	3	2.5	3.5	4.5	0
20	16	15.5	12	7.5	36.3	M5	M8	13	4	2.5	4.5	4.5	4.5
25	16	15.5	12	8	40.3	M5	M8	13	4	2.5	4.5	4.5	4
32	19	17	14	9.2	50	G 1/8	M10x1,25	17	5	2.5	5	7.5	4.85
40	19	17	14	9.2	58	G 1/8	M10x1,25	17	5	2.5	5	7.5	9.85
50	22	17	18	11	68.3	G 1/8	M12x1,25	19	6	2.5	5	7.5	12
63	22	17	18	11	80	G 1/8	M12x1,25	19	6	2.5	5	7.5	14.8
80	28	20	23	15	96	G 1/8	M16x1,5	24	8	3	5	7.5	22

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
▶ Piston rod: external thread

Piston Ø	A *)	BG	DA H11	DT	E	EE	KK	KV	KW	LA	LB	LE	LJ
100	28	20	28	15	116	G 1/8	M16x1,5	24	8	3	5	7.5	27

Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA	ZB 1)
16	8	8	3.3	M4	7	18	4,8 ±0,9	–	–	–	34,9 ±0,1	39,7 ±0,8
20	10	11	4.2	M5	8	22	6,3 ±0,9	4.2	–	–	37,3 ±0,1	43,6 ±0,8
25	10	11	4.2	M5	8	26	5,6 ±0,9	4.5	–	–	39 ±0,1	44,5 ±0,9
32	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1	51,4 ±1
40	12	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1	52,4 ±1
50	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1
63	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1
80	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1

* With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread



00119665



a71

Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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]	16	20	25	32	40
Retracting piston force		[lbf]	17.76	27.88	42.94	73.96	116.22
Extracting piston force		[lbf]	2.7	2.92	5.62	7.87	9.67
Impact energy		[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.134	0.222	0.277	0.522	0.681
	+10 mm stroke	[lbs]	0.0352	0.0507	0.0573	0.0947	0.1146
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842	0.9842

Piston Ø		[mm]	50	63	80	100
Retracting piston force		[lbf]	177.37	313.82	515.24	825.24
Extracting piston force		[lbf]	18.43	18.43	23.6	48.33
Impact energy		[inch]	0.472	0.5531	0.5531	0.7375
Weight	0 mm stroke	[lbs]	1.018	1.549	2.517	4.847
	+10 mm stroke	[lbs]	0.1543	0.1918	0.2557	0.3703
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread

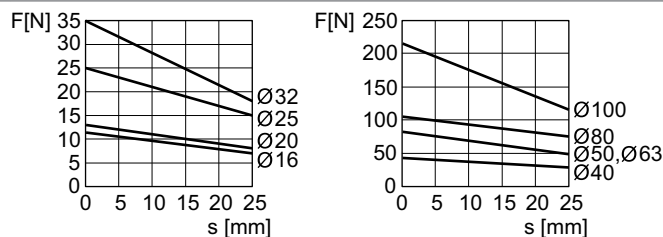
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M4 M5 8	20 M6 M5 10	25 M6 M5 10	32 M8 G 1/8 12	40 M8 G 1/8 12
	Stroke 0.2	R422001492	R422001493	R422001494	R422001495	R422001496
	0.39	R422001502	R422001503	R422001504	R422001505	R422001506
	0.59	R422001512	R422001513	R422001514	R422001515	R422001516
	0.79	R422001522	R422001523	R422001524	R422001525	R422001526
	0.98	R422001532	R422001533	R422001534	R422001535	R422001536
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M10 G 1/8 16	63 M10 G 1/8 16	80 M12 G 1/8 20	100 M12 G 1/8 25	
	Stroke 0.2	R422001497	R422001498	R422001499	R422001500	
	0.39	R422001507	R422001508	R422001509	R422001510	
	0.59	R422001517	R422001518	R422001519	R422001520	
	0.79	R422001527	R422001528	R422001529	R422001530	
	0.98	R422001537	R422001538	R422001539	R422001540	

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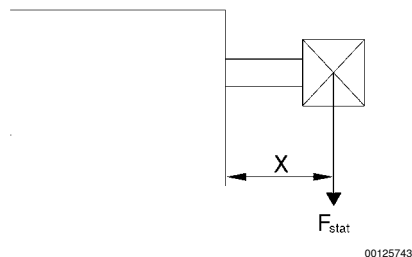
Extracting piston force



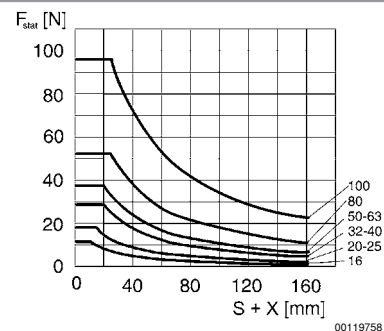
00112000

F = spring return force, s = stroke

Maximum permissible lateral force, Static



00125743



00119758

F_{stat} = static lateral force

S = stroke

X = spacing between force application point and cylinder cover

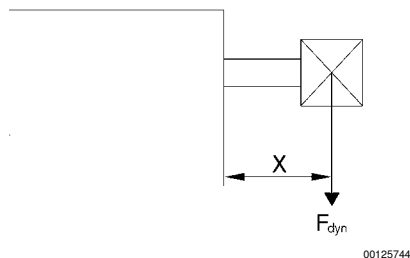
All dimensions in mm, unless specified otherwise.

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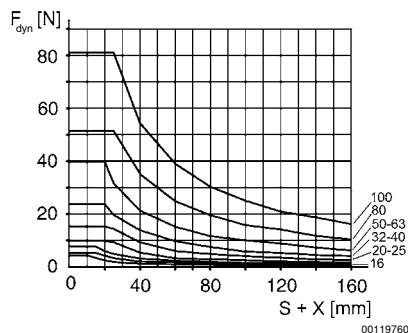
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Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread

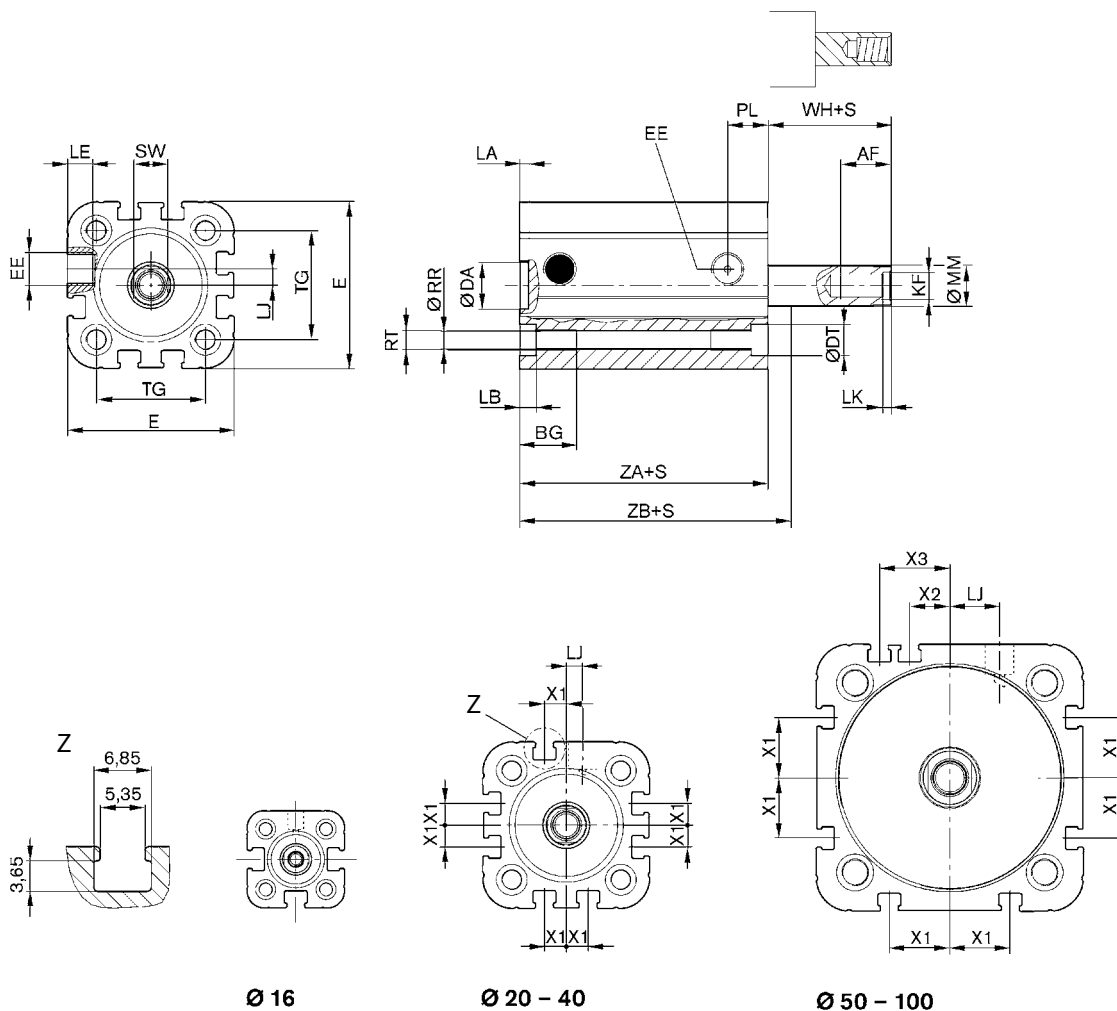
Maximum permissible lateral force, Dynamic


00125744


 F_{dyn} = dynamic lateral force

 S = stroke

 X = spacing between force application point and cylinder cover

Ø 16 - 100 mm


00119658

 S = stroke

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ► Standard cylinders
Compact cylinder ISO 21287, Series CCI

► Ports: M5 - G 1/8 ► Single-acting, extended without pressure ► with magnetic piston ► Cushioning: elastic
► Piston rod: Internal thread

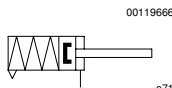
Piston Ø	AF	BG	DA H11	DT	E	EE	KF	LA	LB	LE	LJ	LK	MM f8
16	10	15	10	6	29.3	M5	M4	2.5	3.5	4.5	0	1.6	8
20	12	15.5	12	7.5	36.3	M5	M6	2.5	4.5	4.5	4.5	2.5	10
25	12	15.5	12	8	40.3	M5	M6	2.5	4.5	4.5	4	2.5	10
32	12	17	14	9.2	50	G 1/8	M8	2.5	5	7.5	4.85	2.5	12
40	12	17	14	9.2	58	G 1/8	M8	2.5	5	7.5	9.85	2.5	12
50	16	17	18	11	68.3	G 1/8	M10	2.5	5	7.5	12	3.5	16
63	16	17	18	11	80	G 1/8	M10	2.5	5	7.5	14.8	3.5	16
80	20	20	23	15	96	G 1/8	M12	3	5	7.5	22	3.5	20
100	20	20	28	15	116	G 1/8	M12	3	5	7.5	27	3.5	25

Piston Ø	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA	ZB 1)
16	8	3.3	M4	7	18	4,8 ±0,9	–	–	–	34,9 ±0,1	39,7 ±0,8
20	11	4.2	M5	8	22	6,3 ±0,9	4.2	–	–	37,3 ±0,1	43,6 ±0,8
25	11	4.2	M5	8	26	5,6 ±0,9	4.5	–	–	39 ±0,1	44,5 ±0,9
32	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1	51,4 ±1
40	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1	52,4 ±1
50	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1
63	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1
80	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: external thread



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for cylinder mounting	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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]	16	20	25	32	40
Retracting piston force	[lbf]	17.76	27.88	42.94	73.96	116.22
Extracting piston force	[lbf]	2.7	2.92	5.62	7.87	9.67
Impact energy	[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.145	0.279	0.335	0.731
	+10 mm stroke	[lbs]	0.0352	0.0507	0.0573	0.1146
Stroke max.	[inch]	0.9842	0.9842	0.9842	0.9842	0.9842

Piston Ø		[mm]	50	63	80	100
Retracting piston force		[lbf]	177.37	313.82	515.24	825.24
Extracting piston force		[lbf]	18.43	18.43	23.6	48.33
Impact energy		[inch]	0.472	0.5531	0.5531	0.7375
Weight	0 mm stroke	[lbs]	1.104	1.635	2.696	5.026
	+10 mm stroke	[lbs]	0.1543	0.1918	0.2557	0.3703
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread

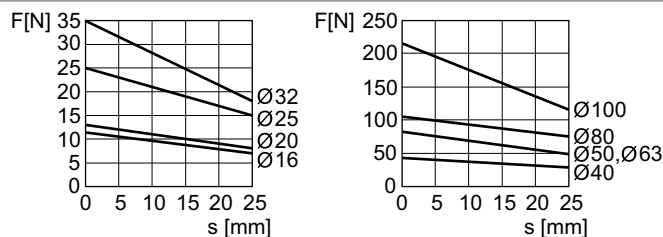
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M6x1 M5 8	20 M8x1,25 M5 10	25 M8x1,25 M5 10	32 M10x1,25 G 1/8 12	40 M10x1,25 G 1/8 12
	Stroke 0.2	R422001542	R422001543	R422001544	R422001545	R422001546
	0.39	R422001552	R422001553	R422001554	R422001555	R422001556
	0.59	R422001562	R422001563	R422001564	R422001565	R422001566
	0.79	R422001572	R422001573	R422001574	R422001575	R422001576
	0.98	R422001582	R422001583	R422001584	R422001585	R422001586
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M12x1,25 G 1/8 16	63 M12x1,25 G 1/8 16	80 M16x1,5 G 1/8 20	100 M16x1,5 G 1/8 25	
	Stroke 0.2	R422001547	R422001548	R422001549	R422001550	
	0.39	R422001557	R422001558	R422001559	R422001560	
	0.59	R422001567	R422001568	R422001569	R422001570	
	0.79	R422001577	R422001578	R422001579	R422001580	
	0.98	R422001587	R422001588	R422001589	R422001590	

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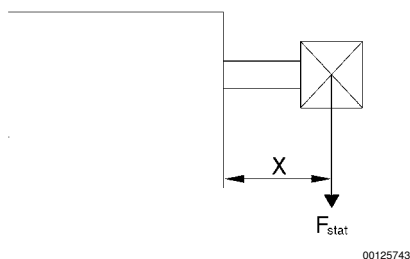
Extracting piston force



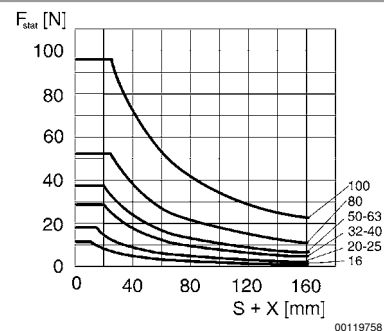
00112000

F = spring return force, s = stroke

Maximum permissible lateral force, Static



00125743



00119758

F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

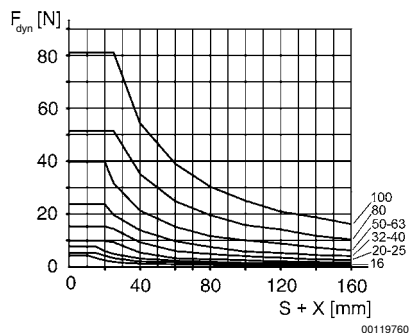
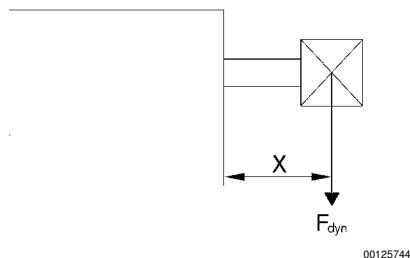
All dimensions in mm, unless specified otherwise.

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Compact cylinder ISO 21287, Series CCI

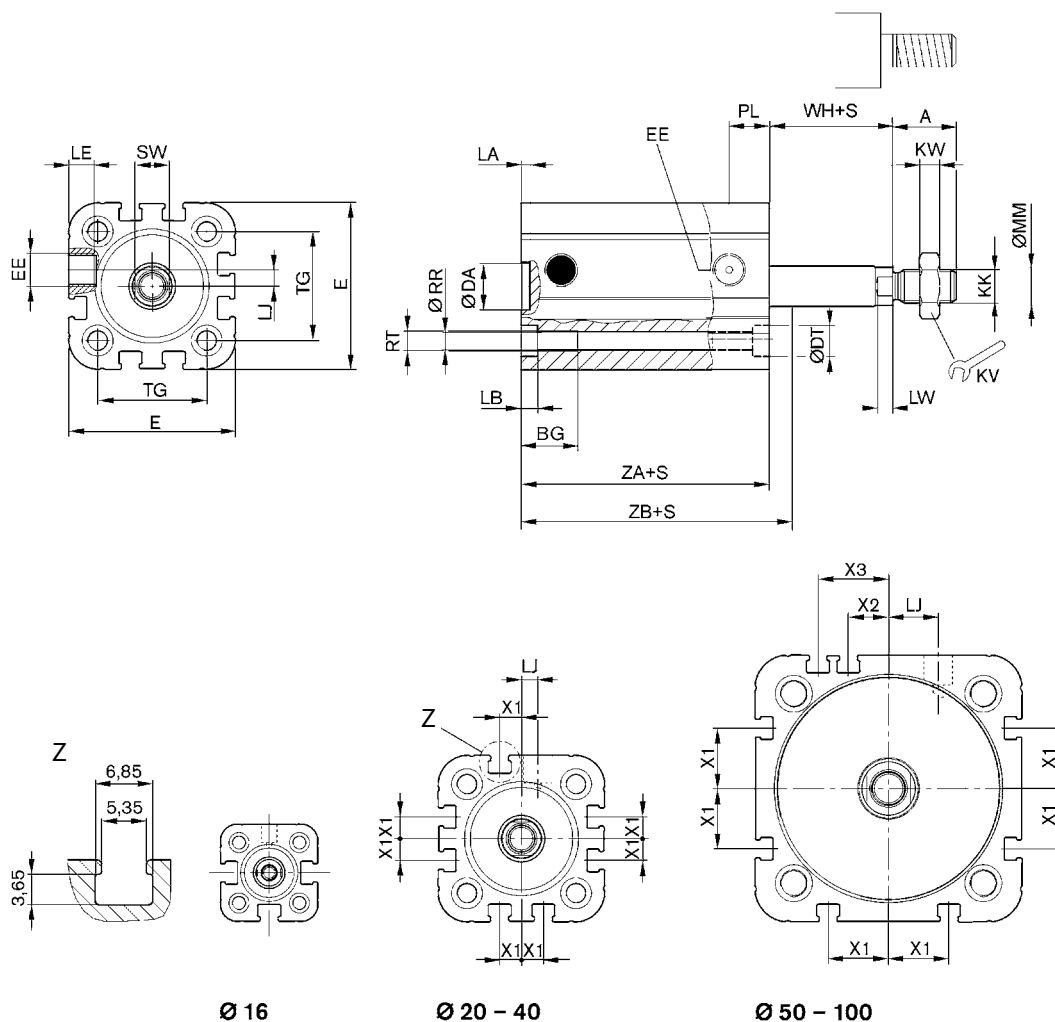
- ▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread

Maximum permissible lateral force, Dynamic


F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

S = stroke

Ø 16 - 100 mm


00132002

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, extended without pressure ▶ with magnetic piston ▶ Cushioning: elastic
▶ Piston rod: external thread

Piston Ø	A 1)	BG	DA H11	DT	E	EE	KK	KV	KW	LA	LB	LE	LJ
16	12	15	10	6	29.3	M5	M6	10	3	2.5	3.5	4.5	0
20	16	15.5	12	7.5	36.3	M5	M8	13	4	2.5	4.5	4.5	4.5
25	16	15.5	12	8	40.3	M5	M8	13	4	2.5	4.5	4.5	4
32	19	17	14	9.2	50	G 1/8	M10x1,25	17	5	2.5	5	7.5	4.85
40	19	17	14	9.2	58	G 1/8	M10x1,25	17	5	2.5	5	7.5	9.85
50	22	17	18	11	68.3	G 1/8	M12x1,25	19	6	2.5	5	7.5	12
63	22	17	18	11	80	G 1/8	M12x1,25	19	6	2.5	5	7.5	14.8
80	28	20	23	15	96	G 1/8	M16x1,5	24	8	3	5	7.5	22
100	28	20	28	15	116	G 1/8	M16x1,5	24	8	3	5	7.5	27

Piston Ø	LW	MM f8	PL	RR	RT 6H	SW	TG	WH 2)	X1	X2	X3	ZA
16	4	8	8	3.3	M4	7	18	4,8 ±0,9	–	–	–	34,9 ±0,1
20	4	10	11	4.2	M5	8	22	6,3 ±0,9	4.2	–	–	37,3 ±0,1
25	4	10	11	4.2	M5	8	26	5,6 ±0,9	4.5	–	–	39 ±0,1
32	4.5	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1
40	4.5	12	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1
50	6	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1
63	6	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1
80	7	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1
100	7	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1

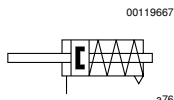
Piston Ø	ZB 2)											
16	39,7 ±0,8											
20	43,6 ±0,8											
25	44,5 ±0,9											
32	51,4 ±1											
40	52,4 ±1											
50	53,6 ±1											
63	57,4 ±1											
80	64,4 ±1											
100	76,7 ±1											

1) With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.

2) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ **Ports:** M5 - G 1/8 ▶ **Single-acting, retracted without pressure** ▶ **with magnetic piston** ▶ **Cushioning: elastic**
 ▶ **Piston rod:** Internal thread, through



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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]	16	20	25	32	40
Retracting piston force		[lbf]	2.7	2.92	5.62	7.87	9.67
Extracting piston force		[lbf]	17.76	27.88	42.94	73.96	116.22
Impact energy		[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.145	0.24	0.288	0.551	0.716
	+10 mm stroke	[lbs]	0.044	0.0639	0.0705	0.1146	0.1322
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842	0.9842

Piston Ø		[mm]	50	63	80	100
Retracting piston force		[lbf]	18.43	18.43	23.6	48.33
Extracting piston force		[lbf]	177.37	313.82	515.24	825.24
Impact energy		[inch]	0.472	0.5531	0.5531	0.7375
Weight	0 mm stroke	[lbs]	1.071	1.613	2.667	5.123
	+10 mm stroke	[lbs]	0.1918	0.227	0.3086	0.4541
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: Internal thread, through

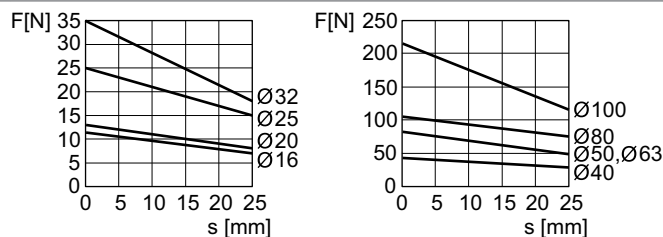
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M4 M5 8	20 M6 M5 10	25 M6 M5 10	32 M8 G 1/8 12	40 M8 G 1/8 12
	Stroke 0.2	R422001592	R422001593	R422001594	R422001595	R422001596
	0.39	R422001602	R422001603	R422001604	R422001605	R422001606
	0.59	R422001612	R422001613	R422001614	R422001615	R422001616
	0.79	R422001622	R422001623	R422001624	R422001625	R422001626
	0.98	R422001632	R422001633	R422001634	R422001635	R422001636
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M10 G 1/8 16	63 M10 G 1/8 16	80 M12 G 1/8 20	100 M12 G 1/8 25	
	Stroke 0.2	R422001597	R422001598	R422001599	R422001600	
	0.39	R422001607	R422001608	R422001609	R422001610	
	0.59	R422001617	R422001618	R422001619	R422001620	
	0.79	R422001627	R422001628	R422001629	R422001630	
	0.98	R422001637	R422001638	R422001639	R422001640	

Configurable product



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

Retracting piston force

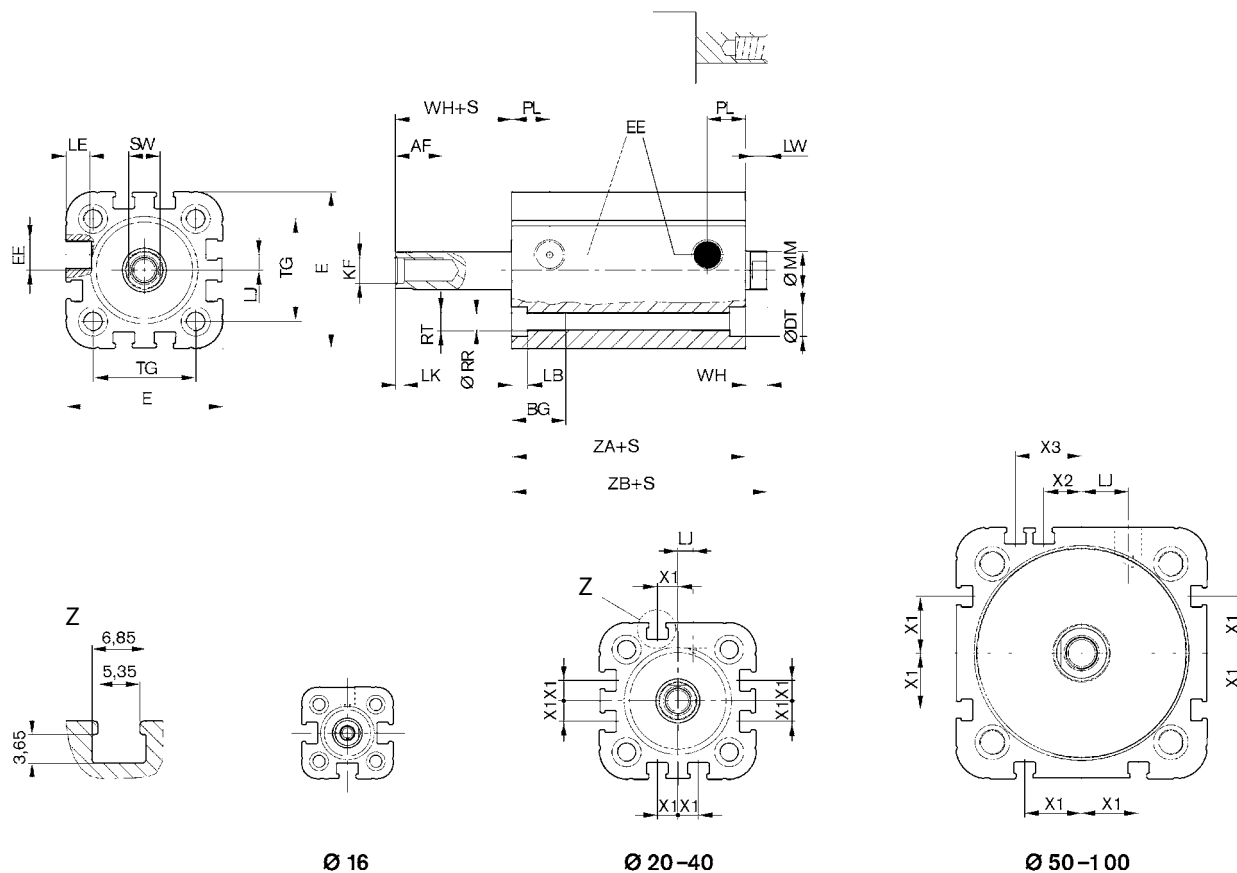


00112000

F = spring return force, s = return stroke

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: Internal thread, through

Ø 16 - 100 mm

Ø 16
Ø 20-40
Ø 50-100

00125754

S = stroke

Piston Ø	AF	BG	DT	E	EE	KF	LB	LE	LJ	LK	LW	MM f8	PL
16	10	15	6	29.3	M5	M4	3.5	4.5	—	1.6	4	8	8
20	12	15.5	7.5	36.3	M5	M6	4.5	4.5	4.5	2.5	4	10	11
25	12	15.5	8	40.3	M5	M6	4.5	4.5	4	2.5	4	10	11
32	12	17	9.2	50	G 1/8	M8	5	7.5	4.85	2.5	4.5	12	12
40	12	17	9.2	58	G 1/8	M8	5	7.5	9.85	2.5	4.5	12	12
50	16 1)	17	11	68.3	G 1/8	M10	5	7.5	12	3.5	6	16	12
63	16 1)	17	11	80	G 1/8	M10	5	7.5	14.8	3.5	6	16	12
80	20 2)	20	15	96	G 1/8	M12	5	7.5	22	3.5	7	20	14
100	20 2)	20	15	116	G 1/8	M12	5	7.5	27	3.5	7	25	16.5

Piston Ø	RR	RT 6H	SW	TG	WH 3)	X1	X2	X3	ZA	ZB 3)		
16	3.3	M4	7	18	4,8 ±0,9	—	—	—	34,9 ±0,1	39,7 ±0,8		
20	4.2	M5	8	22	6,3 ±0,9	4.2	—	—	37,3 ±0,1	43,6 ±0,8		
25	4.2	M5	8	26	5,6 ±0,9	4.5	—	—	39 ±0,1	44,5 ±0,9		
32	5.1	M6	10	32.5	7,4 ±0,9	6.5	—	—	44 ±0,1	51,4 ±1		
40	5.1	M6	10	38	7,4 ±0,9	11	—	—	45 ±0,1	52,4 ±1		
50	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1		
63	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1		

1) Stroke < 5 mm: AF= 11 mm

2) Stroke < 5 mm: AF= 15 mm

3) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

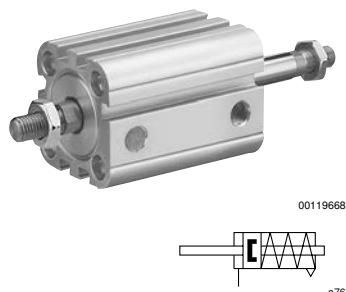
- ▶ **Ports:** M5 - G 1/8 ▶ **Single-acting, retracted without pressure** ▶ **with magnetic piston** ▶ **Cushioning:** elastic
▶ **Piston rod:** Internal thread, through

Piston Ø	RR	RT 6H	SW	TG	WH 3)	X1	X2	X3	ZA	ZB 3)		
80	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1		
100	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1		

1) Stroke < 5 mm: AF= 11 mm
2) Stroke < 5 mm: AF= 15 mm
3) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ **Ports:** M5 - G 1/8 ▶ **Single-acting, retracted without pressure** ▶ **with magnetic piston** ▶ **Cushioning: elastic**
 ▶ **Piston rod: external thread, through**



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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]	16	20	25	32	40
Retracting piston force		[lbf]	2.7	2.92	5.62	7.87	9.67
Extracting piston force		[lbf]	17.76	27.88	42.94	73.96	116.22
Impact energy		[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.163	0.324	0.372	0.654	0.82
	+10 mm stroke	[lbs]	0.044	0.0639	0.0705	0.1146	0.1322
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842	0.9842

Piston Ø		[mm]	50	63	80	100	
Retracting piston force		[lbf]	18.43	18.43	23.6	48.33	
Extracting piston force		[lbf]	177.37	313.82	515.24	825.24	
Impact energy		[inch]	0.472	0.5531	0.5531	0.7375	
Weight	0 mm stroke	[lbs]	1.247	1.787	2.996	5.454	
	+10 mm stroke	[lbs]	0.1918	0.227	0.3086	0.4541	
Stroke max.		[inch]	0.9842	0.9842	0.9842	0.9842	

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
- ▶ Piston rod: external thread, through

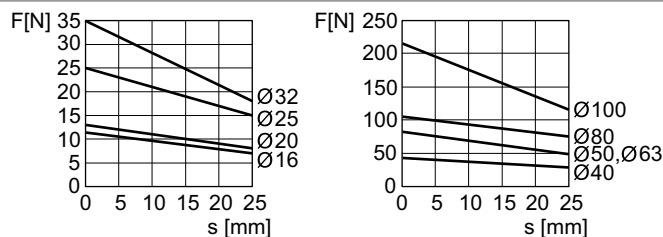
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M6x1 M5 8	20 M8x1,25 M5 10	25 M8x1,25 M5 10	32 M10x1,25 G 1/8 12	40 M10x1,25 G 1/8 12
	Stroke 0.2	R422001642	R422001643	R422001644	R422001645	R422001646
	0.39	R422001652	R422001653	R422001654	R422001655	R422001656
	0.59	R422001662	R422001663	R422001664	R422001665	R422001666
	0.79	R422001672	R422001673	R422001674	R422001675	R422001676
	0.98	R422001682	R422001683	R422001684	R422001685	R422001686
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M12x1,25 G 1/8 16	63 M12x1,25 G 1/8 16	80 M16x1,5 G 1/8 20	100 M16x1,5 G 1/8 25	
	Stroke 0.2	R422001647	R422001648	R422001649	R422001650	
	0.39	R422001657	R422001658	R422001659	R422001660	
	0.59	R422001667	R422001668	R422001669	R422001670	
	0.79	R422001677	R422001678	R422001679	R422001680	
	0.98	R422001687	R422001688	R422001689	R422001690	

Configurable product



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

Retracting piston force

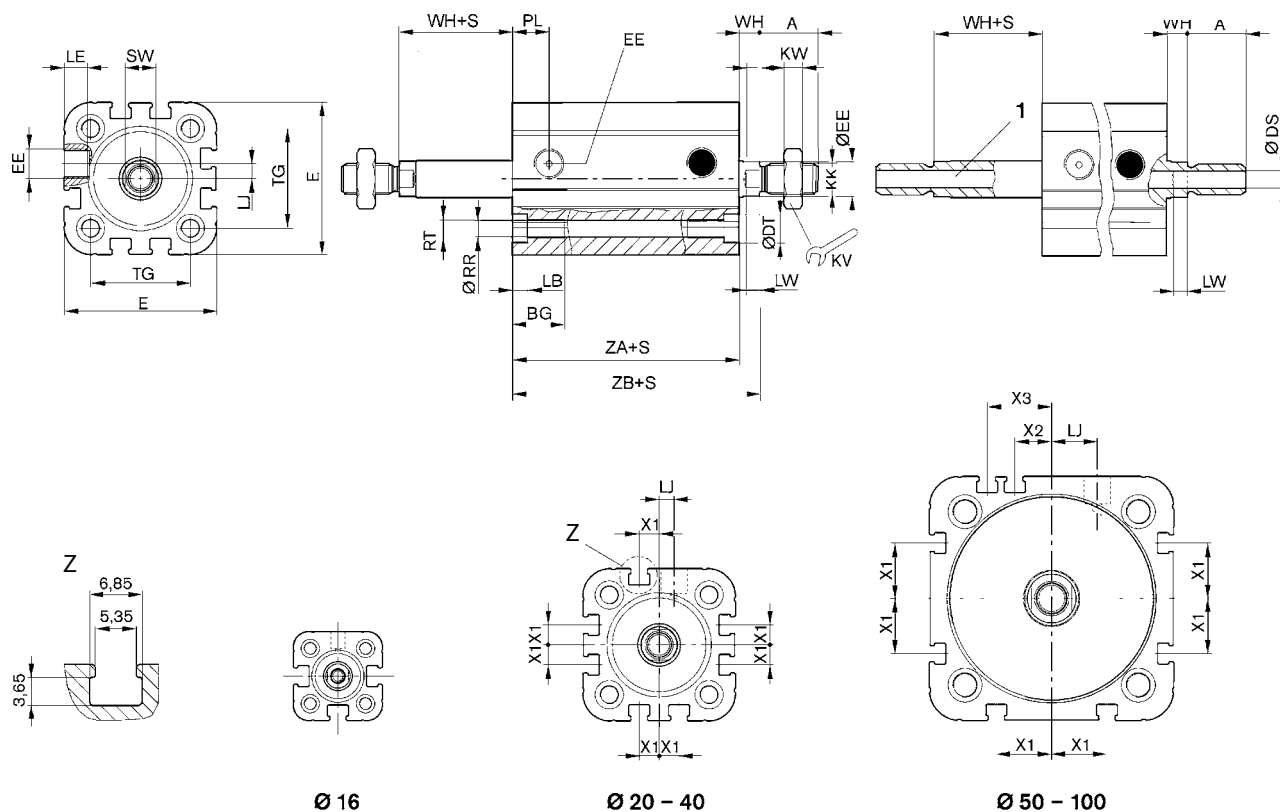


00112000

F = spring return force, s = return stroke

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic
 ▶ Piston rod: external thread, through

Ø 16 - 100 mm

Ø 16
Ø 20 - 40
Ø 50 - 100

00119659

1) Hollow piston rod (to be generated by Internet configurator)
 S = stroke

Piston Ø	A 1)	AF	BG	Ø DS	DT	E	EE	KK 4)	KV	KW	LB	LE
16	12	10	15	2	6	29.3	M5	M6 / M5	10	3	3.5	4.5
20	16	12	15.5	3.8	7.5	36.3	M5	M8 / G 1/8	13	4	4.5	4.5
25	16	12	15.5	3.8	8	40.3	M5	M8 / G 1/8	13	4	4.5	4.5
32	19	12	17	4.5	9.2	50	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5
40	19	12	17	4.5	9.2	58	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5
50	22	16 2)	17	6	11	68.3	G 1/8	M12x1,25 / G 1/4	19	6	5	7.5
63	22	16 2)	17	6	11	80	G 1/8	M12x1,25 / G 1/4	19	6	5	7.5
80	28	20 3)	20	8	15	96	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5
100	28	20 3)	20	8	15	116	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5

Piston Ø	LJ	LW	MM f8	PL	RR	RT 6H	SW	TG	WH 5)	X1	X2	X3	ZA
16	0	4	8	8	3.3	M4	7	18	4,8 ±0,9	–	–	–	34,9 ±0,1
20	4.5	4	10	11	4.2	M5	8	22	6,3 ±0,9	4.2	–	–	37,3 ±0,1
25	4	4	10	11	4.2	M5	8	26	5,6 ±0,9	4.5	–	–	39 ±0,1
32	4.85	4.5	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1
40	9.85	4.5	12	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1
50	12	6	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1
63	14.8	6	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1
80	22	7	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ Single-acting, retracted without pressure ▶ with magnetic piston ▶ Cushioning: elastic

▶ Piston rod: external thread, through

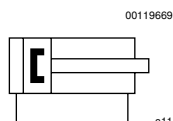
Piston Ø	LJ	LW	MM f8	PL	RR	RT 6H	SW	TG	WH 5)	X1	X2	X3	ZA
100	27	7	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1

Piston Ø	ZB 5)												
16	39,7 ±0,8												
20	43,6 ±0,8												
25	44,5 ±0,9												
32	51,4 ±1												
40	52,4 ±1												
50	53,6 ±1												
63	57,4 ±1												
80	64,4 ±1												
100	76,7 ±1												

- 1) With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.
2) Stroke < 5 mm: AF= 11 mm
3) Stroke < 5 mm: AF= 15 mm
4) Solid piston rod/hollow piston rod
5) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread
▶ ATEX optional



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	15 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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
- The operating temperature range for ATEX-certified cylinders is - 68 °F to 122 °F.

Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Extracting piston force	[lbf]	23.83	36.87	58.22	94.87	149.49
Impact energy	[inch]	0.1106	0.1475	0.2212	0.3687	0.5162
Weight	0 mm stroke	[lbs]	0.13	0.218	0.271	0.513
	+10 mm stroke	[lbs]	0.0352	0.0507	0.0573	0.0925
Stroke max.	[inch]	11.81	11.81	11.81	11.81	11.81

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[lbf]	195.8	332.25	538.85	873.57
Extracting piston force	[lbf]	232.67	370.25	597.07	931.8
Impact energy	[inch]	0.7375	0.9588	1.33	1.84
Weight	0 mm stroke	[lbs]	0.987	1.518	2.455
	+10 mm stroke	[lbs]	0.1543	0.1918	0.2557
Stroke max.	[inch]	11.81	11.81	19.68	19.68

All dimensions in mm, unless specified otherwise.

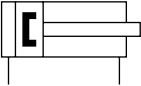
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

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Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread
- ▶ ATEX optional

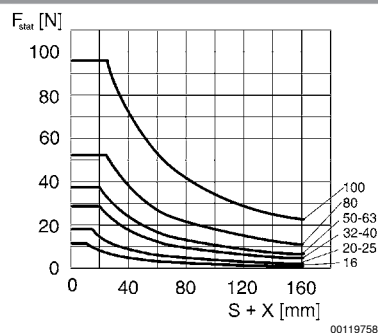
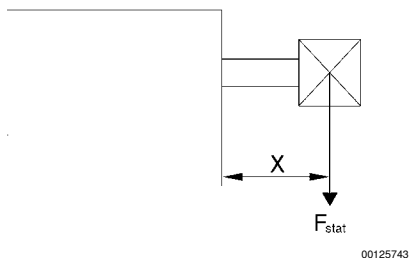
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M4 M5 8	20 M6 M5 10	25 M6 M5 10	32 M8 G 1/8 12	40 M8 G 1/8 12
	Stroke 0.2	R422001002	R422001003	R422001004	R422001005	R422001006
	0.39	R422001012	R422001013	R422001014	R422001015	R422001016
	0.59	R422001022	R422001023	R422001024	R422001025	R422001026
	0.79	R422001032	R422001033	R422001034	R422001035	R422001036
	0.98	R422001042	R422001043	R422001044	R422001045	R422001046
	1.18	R422001052	R422001053	R422001054	R422001055	R422001056
	1.57	R422001062	R422001063	R422001064	R422001065	R422001066
	1.97	R422001072	R422001073	R422001074	R422001075	R422001076
	2.36	R422001082	R422001083	R422001084	R422001085	R422001086
	3.15	-	-	-	R422001095	R422001096
	3.94	-	-	-	R422001105	R422001106
	4.92	-	-	-	R422001115	R422001116
	5.91	-	-	-	R422001125	R422001126
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M10 G 1/8 16	63 M10 G 1/8 16	80 M12 G 1/8 20	100 M12 G 1/8 25	
	Stroke 0.2	R422001007	R422001008	R422001009	R422001010	
	0.39	R422001017	R422001018	R422001019	R422001020	
	0.59	R422001027	R422001028	R422001029	R422001030	
	0.79	R422001037	R422001038	R422001039	R422001040	
	0.98	R422001047	R422001048	R422001049	R422001050	
	1.18	R422001057	R422001058	R422001059	R422001060	
	1.57	R422001067	R422001068	R422001069	R422001070	
	1.97	R422001077	R422001078	R422001079	R422001080	
	2.36	R422001087	R422001088	R422001089	R422001090	
	3.15	R422001097	R422001098	R422001099	R422001100	
	3.94	R422001107	R422001108	R422001109	R422001110	
	4.92	R422001117	R422001118	R422001119	R422001120	
	5.91	R422001127	R422001128	R422001129	R422001130	

Configurable product


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

Compact cylinder ISO 21287, Series CCI

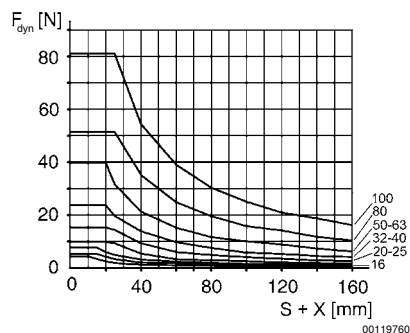
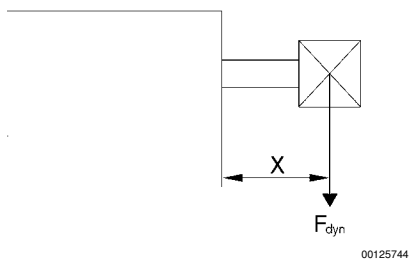
▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread
 ▶ ATEX optional

Maximum permissible lateral force, Static


F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

Maximum permissible lateral force, Dynamic


F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

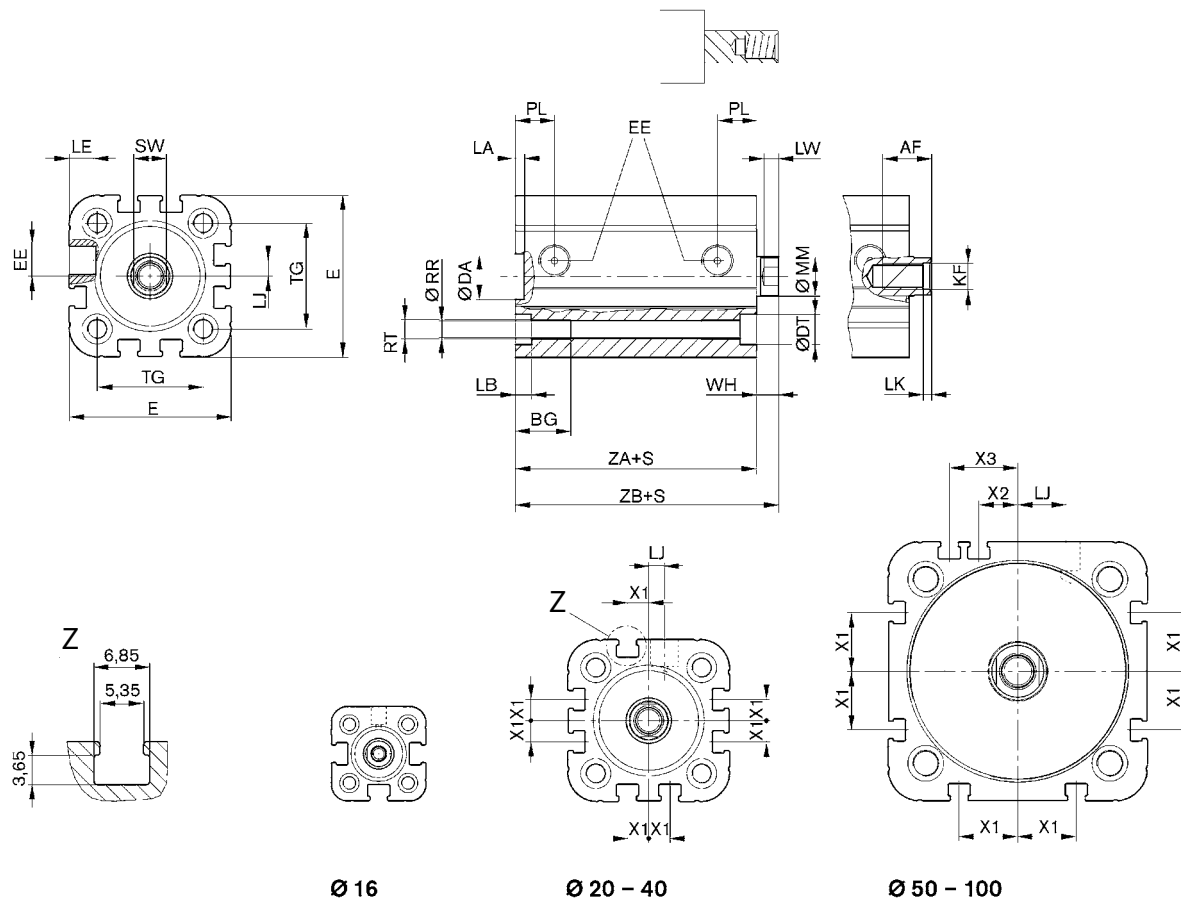
S = stroke

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread
- ▶ ATEX optional

Ø 16 - 100 mm



S = stroke

00119660

Piston Ø	AF	BG	DA H11	DT	E	EE	KF	LA	LB	LE	LJ	LK	LW
16	10	15	10	6	29.3	M5	M4	2.5	3.5	4.5	0	1.6	4
20	12	15.5	12	7.5	36.3	M5	M6	2.5	4.5	4.5	4.5	2.5	4
25	12	15.5	12	8	40.3	M5	M6	2.5	4.5	4.5	4	2.5	4
32	12	17	14	9.2	50	G 1/8	M8	2.5	5	7.5	4.85	2.5	4.5
40	12	17	14	9.2	58	G 1/8	M8	2.5	5	7.5	9.85	2.5	4.5
50	16	17	18	11	68.3	G 1/8	M10	2.5	5	7.5	12	3.5	6
63	16	17	18	11	80	G 1/8	M10	2.5	5	7.5	14.8	3.5	6
80	20	20	23	15	96	G 1/8	M12	3	5	7.5	22	3.5	7
100	20	20	28	15	116	G 1/8	M12	3	5	7.5	27	3.5	7

Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA ±0,1	ZB 1)
16	8	8	3.3	M4	7	18	4,8 ±0,9	—	—	—	34.9	39,7 ±0,8
20	10	11	4.2	M5	8	22	6,3 ±0,9	4.2	—	—	37.3	43,6 ±0,8
25	10	11	4.2	M5	8	26	5,6 ±0,9	4.5	—	—	39	44,5 ±0,9
32	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	—	—	44	51,4 ±1
40	12	12	5.1	M6	10	38	7,4 ±0,9	11	—	—	45	52,4 ±1
50	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45.5	53,6 ±1

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

All dimensions in mm, unless specified otherwise.

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

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Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread
 ▶ ATEX optional

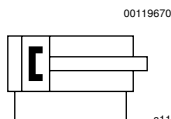
Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA ±0,1	ZB 1)
63	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49	57,4 ±1
80	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54.7	64,4 ±1
100	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67	76,7 ±1

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread
▶ ATEX optional



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	15 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for cylinder mounting	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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
- The operating temperature range for ATEX-certified cylinders is - 68 °F to 122 °F.

Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Extracting piston force	[lbf]	23.83	36.87	58.22	94.87	149.49
Impact energy	[inch]	0.1106	0.1475	0.2212	0.3687	0.5162
Weight	0 mm stroke	[lbs]	0.141	0.275	0.328	0.564
	+10 mm stroke	[lbs]	0.0352	0.0507	0.0573	0.0947
Stroke max.	[inch]	11.81	11.81	11.81	11.81	11.81

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[lbf]	195.8	332.25	538.85	873.57
Extracting piston force	[lbf]	232.67	370.25	597.07	931.8
Impact energy	[inch]	0.7375	0.9588	1.33	1.84
Weight	0 mm stroke	[lbs]	1.073	1.604	2.634
	+10 mm stroke	[lbs]	0.1543	0.1918	0.2557
Stroke max.	[inch]	11.81	11.81	19.68	19.68

All dimensions in mm, unless specified otherwise.

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

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Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread
 ▶ ATEX optional

	Piston Ø Piston rod thread Ports Piston rod Ø	16 M6x1 M5 8	20 M8x1,25 M5 10	25 M8x1,25 M5 10	32 M10x1,25 G 1/8 12	40 M10x1,25 G 1/8 12
	Stroke 0.2	R422001132	R422001133	R422001134	R422001135	R422001136
	0.39	R422001142	R422001143	R422001144	R422001145	R422001146
	0.59	R422001152	R422001153	R422001154	R422001155	R422001156
	0.79	R422001162	R422001163	R422001164	R422001165	R422001166
	0.98	R422001172	R422001173	R422001174	R422001175	R422001176
	1.18	R422001182	R422001183	R422001184	R422001185	R422001186
	1.57	R422001192	R422001193	R422001194	R422001195	R422001196
	1.97	R422001202	R422001203	R422001204	R422001205	R422001206
	2.36	R422001212	R422001213	R422001214	R422001215	R422001216
	3.15	-	-	-	R422001225	R422001226
	3.94	-	-	-	R422001235	R422001236
	4.92	-	-	-	R422001245	R422001246
	5.91	-	-	-	R422001255	R422001256
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M12x1,25 G 1/8 16	63 M12x1,25 G 1/8 16	80 M16x1,5 G 1/8 20	100 M16x1,5 G 1/8 25	
	Stroke 0.2	R422001137	R422001138	R422001139	R422001140	
	0.39	R422001147	R422001148	R422001149	R422001150	
	0.59	R422001157	R422001158	R422001159	R422001160	
	0.79	R422001167	R422001168	R422001169	R422001170	
	0.98	R422001177	R422001178	R422001179	R422001180	
	1.18	R422001187	R422001188	R422001189	R422001190	
	1.57	R422001197	R422001198	R422001199	R422001200	
	1.97	R422001207	R422001208	R422001209	R422001210	
	2.36	R422001217	R422001218	R422001219	R422001220	
	3.15	R422001227	R422001228	R422001229	R422001230	
	3.94	R422001237	R422001238	R422001239	R422001240	
	4.92	R422001247	R422001248	R422001249	R422001250	
	5.91	R422001257	R422001258	R422001259	R422001260	

Configurable product

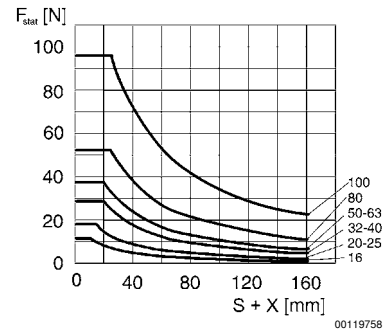
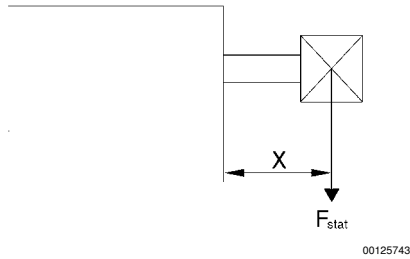

This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

- ▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread
- ▶ ATEX optional

Maximum permissible lateral force, Static

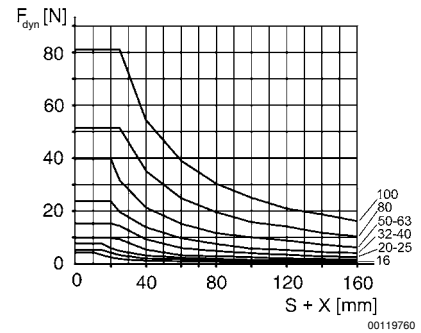
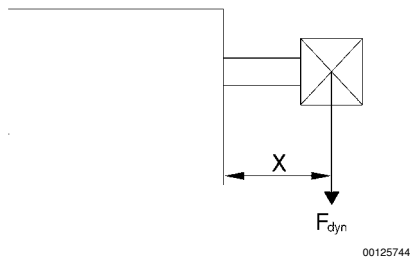


F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

Maximum permissible lateral force, Dynamic



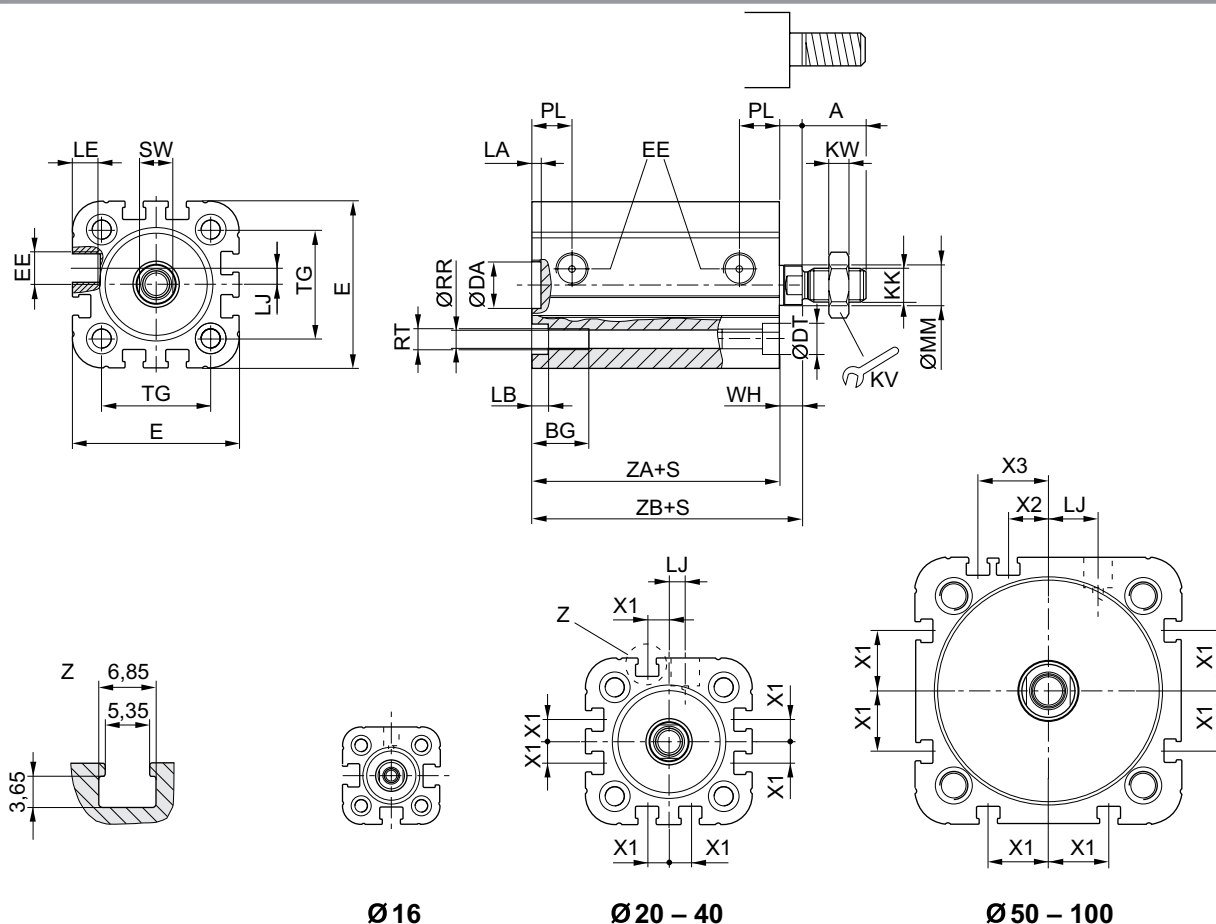
F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

S = stroke

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread
 ▶ ATEX optional

Ø 16 - 100 mm


S = stroke

00132003

Piston Ø	A *)	BG	DA H11	DT	E	EE	KK	KV	KW	LA	LB	LE	LJ
16	12	15	10	6	29.3	M5	M6	10	3	2.5	3.5	4.5	–
20	16	15.5	12	7.5	36.3	M5	M8	13	4	2.5	4.5	4.5	4.5
25	16	15.5	12	8	40.3	M5	M8	13	4	2.5	4.5	4.5	4
32	19	17	14	9.2	50	G 1/8	M10x1,25	17	5	2.5	5	7.5	4.85
40	19	17	14	9.2	58	G 1/8	M10x1,25	17	5	2.5	5	7.5	9.85
50	22	17	18	11	68.3	G 1/8	M12x1,25	19	6	2.5	5	7.5	12
63	22	17	18	11	80	G 1/8	M12x1,25	19	6	2.5	5	7.5	14.8
80	28	20	23	15	96	G 1/8	M16x1,5	24	8	3	5	7.5	22
100	28	20	28	15	116	G 1/8	M16x1,5	24	8	3	5	7.5	27

Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA	ZB 1)
16	8	8	3.3	M4	7	18	4,8 ±0,9	–	–	–	34,9 ±0,1	39,7 ±0,8
20	10	11	4.2	M5	8	22	6,3 ±0,9	4.2	–	–	37,3 ±0,1	43,6 ±0,8
25	10	11	4.2	M5	8	26	5,6 ±0,9	4.5	–	–	39 ±0,1	44,5 ±0,9
32	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	–	–	44 ±0,1	51,4 ±1
40	12	12	5.1	M6	10	38	7,4 ±0,9	11	–	–	45 ±0,1	52,4 ±1
50	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1

* With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread
▶ ATEX optional

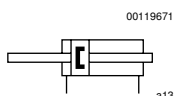
Piston Ø	MM f8	PL	RR	RT 6H	SW	TG	WH 1)	X1	X2	X3	ZA	ZB 1)
63	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1
80	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1
100	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1

* With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.

1) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, through ▶ ATEX optional



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	15 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Technical Remarks

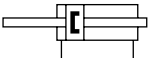
- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- ATEX-certified cylinders can be generated in the Internet configurator.
- ATEX ID: II 2G c IIB T4 II 2D c IP65 T125 °C X
- The operating temperature range for ATEX-certified cylinders is - 68 °F to 122 °F.

Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Extracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Impact energy	[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.141	0.235	0.282	0.542
	+10 mm stroke	[lbs]	0.044	0.0639	0.0705	0.1146
Stroke max.	[inch]	11.81	11.81	11.81	11.81	11.81

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[lbf]	195.8	332.25	538.85	873.57
Extracting piston force	[lbf]	195.8	332.25	538.85	873.57
Impact energy	[inch]	0.472	0.5531	0.5531	0.7375
Weight	0 mm stroke	[lbs]	1.04	1.582	2.605
	+10 mm stroke	[lbs]	0.1918	0.227	0.3086
Stroke max.	[inch]	11.81	11.81	19.68	19.68

Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, through ▶ ATEX optional

	Piston Ø Piston rod thread Ports Piston rod Ø	16 M4 M5 8	20 M6 M5 10	25 M6 M5 10	32 M8 G 1/8 12	40 M8 G 1/8 12
	Stroke 0.2	R422001692	R422001693	R422001694	R422001695	R422001696
	0.39	R422001702	R422001703	R422001704	R422001705	R422001706
	0.59	R422001712	R422001713	R422001714	R422001715	R422001716
	0.79	R422001722	R422001723	R422001724	R422001725	R422001726
	0.98	R422001732	R422001733	R422001734	R422001735	R422001736
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M10 G 1/8 16	63 M10 G 1/8 16	80 M12 G 1/8 20	100 M12 G 1/8 25	
	Stroke 0.2	R422001697	R422001698	R422001699	R422001700	
	0.39	R422001707	R422001708	R422001709	R422001710	
	0.59	R422001717	R422001718	R422001719	R422001720	
	0.79	R422001727	R422001728	R422001729	R422001730	
	0.98	R422001737	R422001738	R422001739	R422001740	

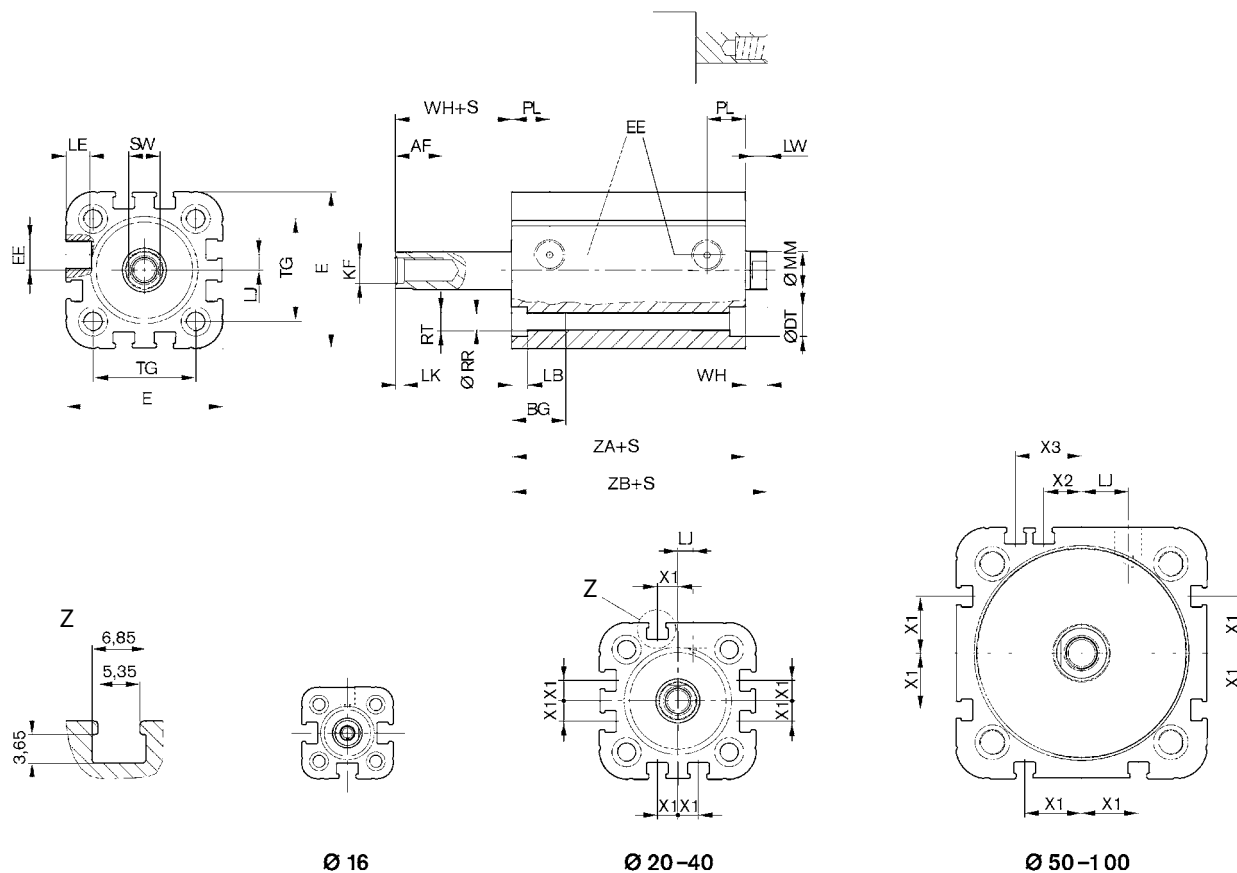
Configurable product


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

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, through ▶ ATEX optional

Ø 16 - 100 mm



Ø 16

Ø 20-40

Ø 50-100

00132001

S = stroke

Piston Ø	AF	BG	DT	E	EE	KF	LB	LE	LJ	LK	LW	MM f8	PL
16	10	15	6	29.3	M5	M4	3.5	4.5	—	1.6	4	8	8
20	12	15.5	7.5	36.3	M5	M6	4.5	4.5	4.5	2.5	4	10	11
25	12	15.5	8	40.3	M5	M6	4.5	4.5	4	2.5	4	10	11
32	12	17	9.2	50	G 1/8	M8	5	7.5	4.85	2.5	4.5	12	12
40	12	17	9.2	58	G 1/8	M8	5	7.5	9.85	2.5	4.5	12	12
50	16 1)	17	11	68.3	G 1/8	M10	5	7.5	12	3.5	6	16	12
63	16 1)	17	11	80	G 1/8	M10	5	7.5	14.8	3.5	6	16	12
80	20 2)	20	15	96	G 1/8	M12	5	7.5	22	3.5	7	20	14
100	20 2)	20	15	116	G 1/8	M12	5	7.5	27	3.5	7	25	16.5

Piston Ø	RR	RT 6H	SW	TG	WH 3)	X1	X2	X3	ZA	ZB 3)		
16	3.3	M4	7	18	4,8 ±0,9	—	—	—	34,9 ±0,1	39,7 ±0,8		
20	4.2	M5	8	22	6,3 ±0,9	4.2	—	—	37,3 ±0,1	43,6 ±0,8		
25	4.2	M5	8	26	5,6 ±0,9	4.5	—	—	39 ±0,1	44,5 ±0,9		
32	5.1	M6	10	32.5	7,4 ±0,9	6.5	—	—	44 ±0,1	51,4 ±1		
40	5.1	M6	10	38	7,4 ±0,9	11	—	—	45 ±0,1	52,4 ±1		
50	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1	53,6 ±1		
63	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1	57,4 ±1		

1) Stroke < 5 mm: AF= 11 mm

2) Stroke < 5 mm: AF= 15 mm

3) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

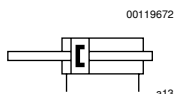
▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, through ▶ ATEX optional

Piston Ø	RR	RT 6H	SW	TG	WH 3)	X1	X2	X3	ZA	ZB 3)		
80	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1	64,4 ±1		
100	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1	76,7 ±1		

1) Stroke < 5 mm: AF= 11 mm
2) Stroke < 5 mm: AF= 15 mm
3) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, through ▶ ATEX optional



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	15 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- 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
- The operating temperature range for ATEX-certified cylinders is - 68 °F to 122 °F.

Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Extracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Impact energy	[inch]	0.0811	0.1106	0.1475	0.295	0.3835
Weight	0 mm stroke	[lbs]	0.158	0.319	0.365	0.645
	+10 mm stroke	[lbs]	0.044	0.0639	0.0705	0.1146
Stroke max.	[inch]	11.81	11.81	11.81	11.81	11.81

Piston Ø	[mm]	50	63	80	100	
Retracting piston force	[lbf]	195.8	332.25	538.85	873.57	
Extracting piston force	[lbf]	195.8	332.25	538.85	873.57	
Impact energy	[inch]	0.472	0.5531	0.5531	0.7375	
Weight	0 mm stroke	[lbs]	1.216	1.757	2.934	5.352
	+10 mm stroke	[lbs]	0.1918	0.227	0.3086	0.4541
Stroke max.	[inch]	11.81	11.81	19.68	19.68	

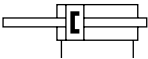
All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, through ▶ ATEX optional

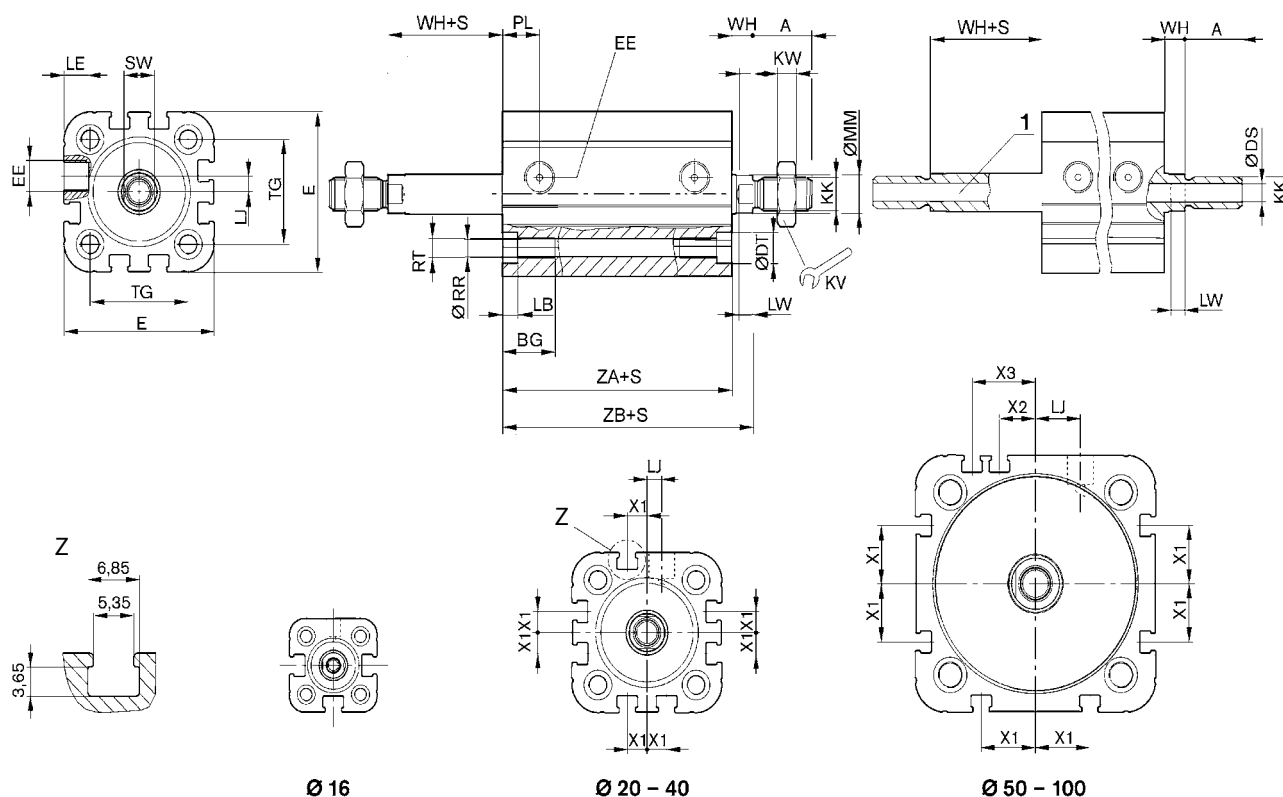
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M6x1 M5 8	20 M8x1,25 M5 10	25 M8x1,25 M5 10	32 M10x1,25 G 1/8 12	40 M10x1,25 G 1/8 12
	Stroke 0.2	R422001742	R422001743	R422001744	R422001745	R422001746
	0.39	R422001752	R422001753	R422001754	R422001755	R422001756
	0.59	R422001762	R422001763	R422001764	R422001765	R422001766
	0.79	R422001772	R422001773	R422001774	R422001775	R422001776
	0.98	R422001782	R422001783	R422001784	R422001785	R422001786
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M12x1,25 G 1/8 16	63 M12x1,25 G 1/8 16	80 M16x1,5 G 1/8 20	100 M16x1,5 G 1/8 25	
	Stroke 0.2	R422001747	R422001748	R422001749	R422001750	
	0.39	R422001757	R422001758	R422001759	R422001760	
	0.59	R422001767	R422001768	R422001769	R422001770	
	0.79	R422001777	R422001778	R422001779	R422001780	
	0.98	R422001787	R422001788	R422001789	R422001790	

Configurable product


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

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, through ▶ ATEX optional

Ø 16 - 100 mm


1) Hollow piston rod (to be generated by Internet configurator)
S = stroke

00119661

Piston Ø	A 1)	BG	Ø DS	DT	E	EE	KK 3)	KV	KW	LB	LE	LJ
16	12	15	2	6	29.3	M5	M6 / M5	10	3	3.5	4.5	0
20	16	15.5	3.8	7.5	36.3	M5	M8 / G 1/8	13	4	4.5	4.5	4.5
25	16	15.5	3.8	8	40.3	M5	M8 / G 1/8	13	4	4.5	4.5	4
32	19	17	4.5	9.2	50	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5	4.85
40	19	17	4.5	9.2	58	G 1/8	M10x1,25 / G 1/8	17	5	5	7.5	9.85
50	22	17	6	11	68.3	G 1/8	M12x1,25 / G 1/4	19	6	5	7.5	12
63	22	17	6	11	80	G 1/8	M12x1,25 / G 1/4	19	6	5	7.5	14.8
80	28	20	8	15	96	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5	22
100	28	20	8	15	116	G 1/8	M16x1,5 / M16x1,5	24	8	5	7.5	27

Piston Ø	LK	LW	MM f8	PL	RR	RT 6H	SW	TG	WH 2)	X1	X2	X3	ZA
16	1.6	4	8	8	3.3	M4	7	18	4,8 ±0,9	—	—	—	34,9 ±0,1
20	2.5	4	10	11	4.2	M5	8	22	6,3 ±0,9	4.2	—	—	37,3 ±0,1
25	2.5	4	10	11	4.2	M5	8	26	5,6 ±0,9	4.5	—	—	39 ±0,1
32	2.5	4.5	12	12	5.1	M6	10	32.5	7,4 ±0,9	6.5	—	—	44 ±0,1
40	2.5	4.5	12	12	5.1	M6	10	38	7,4 ±0,9	11	—	—	45 ±0,1
50	3.5	6	16	12	6.7	M8	13	46.5	8,4 ±0,9	13	4	13	45,5 ±0,1
63	3.5	6	16	12	6.7	M8	13	56.5	8,5 ±0,9	18	12	21	49 ±0,1
80	3.5	7	20	14	8.5	M10	16	72	9,8 ±1	18	16.5	25.5	54,7 ±0,1
100	3.5	7	25	16.5	8.5	M10	21	89	9,8 ±1	20	20	29	67 ±0,1

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

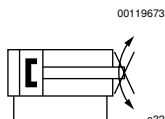
▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: external thread, through ▶ ATEX optional

Piston Ø	ZB 2)												
16	39,7 ±0,8												
20	43,6 ±0,8												
25	44,5 ±0,9												
32	51,4 ±1												
40	52,4 ±1												
50	53,6 ±1												
63	57,4 ±1												
80	64,4 ±1												
100	76,7 ±1												

- 1) With cylinders with external thread extension, dimension "A" is increased by the value of the thread extension.
2) With cylinders with a piston rod extension, dimensions "WH" and "ZB" are increased by the value of the piston rod extension.
3) Solid piston rod/hollow piston rod

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, with front plate



Standards	ISO 21287
Compressed air connection	Internal thread
Working pressure min./max.	15 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	87 psi

Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Front plate	Aluminum
Nut for piston rod	Steel, galvanized
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

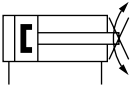
Piston Ø	[mm]	16	20	25	32	40
Retracting piston force	[lbf]	20.46	30.8	48.56	81.83	125.89
Extracting piston force	[lbf]	23.83	36.87	58.22	94.87	149.49
Impact energy	[inch]	0.1106	0.1475	0.2212	0.3687	0.5162
Weight	0 mm stroke	[lbs]	0.156	0.262	0.341	0.668
	+10 mm stroke	[lbs]	0.0418	0.0573	0.0661	0.1102
Stroke max.	[inch]	11.81	11.81	11.81	11.81	11.81

Piston Ø	[mm]	50	63	80	100
Retracting piston force	[lbf]	195.8	332.25	538.85	873.57
Extracting piston force	[lbf]	232.67	370.25	597.07	931.8
Impact energy	[inch]	0.7375	0.9588	1.33	1.84
Weight	0 mm stroke	[lbs]	1.38	1.999	3.223
	+10 mm stroke	[lbs]	0.1984	0.2358	0.2998
Stroke max.	[inch]	11.81	11.81	19.68	19.68

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, with front plate

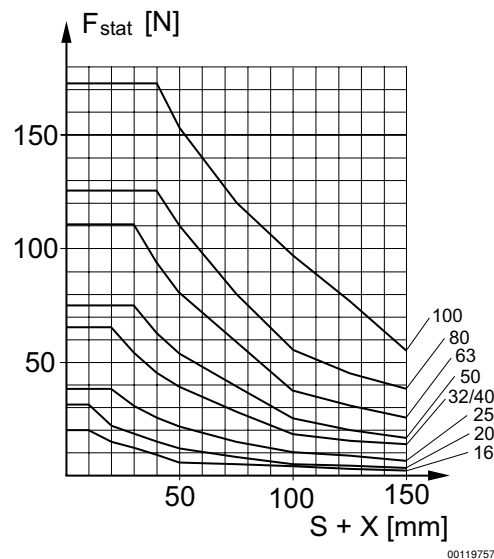
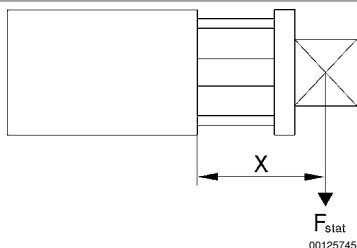
	Piston Ø Piston rod thread Ports Piston rod Ø	16 M4 M5 8	20 M6 M5 10	25 M6 M5 10	32 M8 G 1/8 12	40 M8 G 1/8 12
	Stroke 0.2	R422001262	R422001263	R422001264	R422001265	R422001266
	0.39	R422001272	R422001273	R422001274	R422001275	R422001276
	0.59	R422001282	R422001283	R422001284	R422001285	R422001286
	0.79	R422001292	R422001293	R422001294	R422001295	R422001296
	0.98	R422001302	R422001303	R422001304	R422001305	R422001306
	1.18	R422001312	R422001313	R422001314	R422001315	R422001316
	1.57	R422001322	R422001323	R422001324	R422001325	R422001326
	1.97	R422001332	R422001333	R422001334	R422001335	R422001336
	2.36	R422001342	R422001343	R422001344	R422001345	R422001346
	3.15	-	-	-	R422001355	R422001356
	3.94	-	-	-	R422001365	R422001366
	4.92	-	-	-	R422001375	R422001376
	5.91	-	-	-	R422001385	R422001386
	Piston Ø Piston rod thread Ports Piston rod Ø	50 M10 G 1/8 16	63 M10 G 1/8 16	80 M12 G 1/8 20	100 M12 G 1/8 25	
	Stroke 0.2	R422001267	R422001268	R422001269	R422001270	
	0.39	R422001277	R422001278	R422001279	R422001280	
	0.59	R422001287	R422001288	R422001289	R422001290	
	0.79	R422001297	R422001298	R422001299	R422001300	
	0.98	R422001307	R422001308	R422001309	R422001310	
	1.18	R422001317	R422001318	R422001319	R422001320	
	1.57	R422001327	R422001328	R422001329	R422001330	
	1.97	R422001337	R422001338	R422001339	R422001340	
	2.36	R422001347	R422001348	R422001349	R422001350	
	3.15	R422001357	R422001358	R422001359	R422001360	
	3.94	R422001367	R422001368	R422001369	R422001370	
	4.92	R422001377	R422001378	R422001379	R422001380	
	5.91	R422001387	R422001388	R422001389	R422001390	

Configurable product


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

Compact cylinder ISO 21287, Series CCI

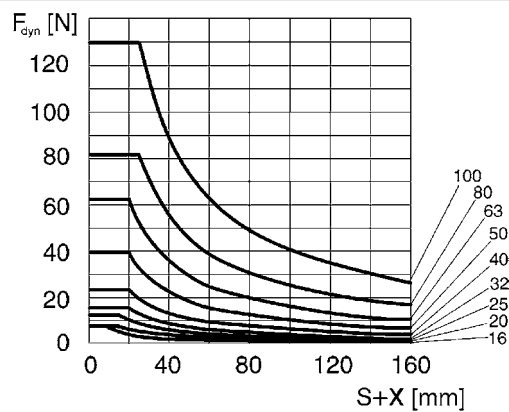
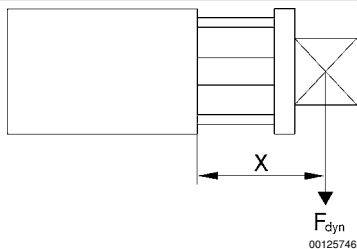
▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, with front plate

Maximum permissible lateral force, Static


F_{stat} = static lateral force

X = spacing between force application point and cylinder cover

S = stroke

Maximum permissible lateral force, Dynamic


F_{dyn} = dynamic lateral force

X = spacing between force application point and cylinder cover

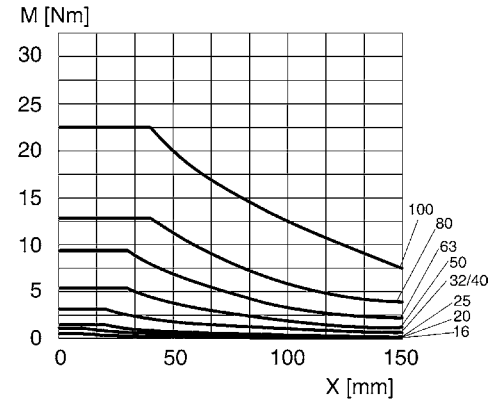
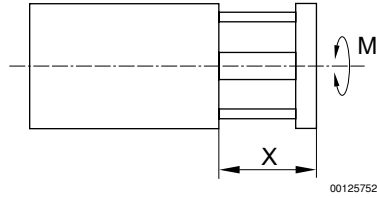
S = stroke

Piston rod cylinders ▶ Standard cylinders

Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, with front plate

Max. permissible torque



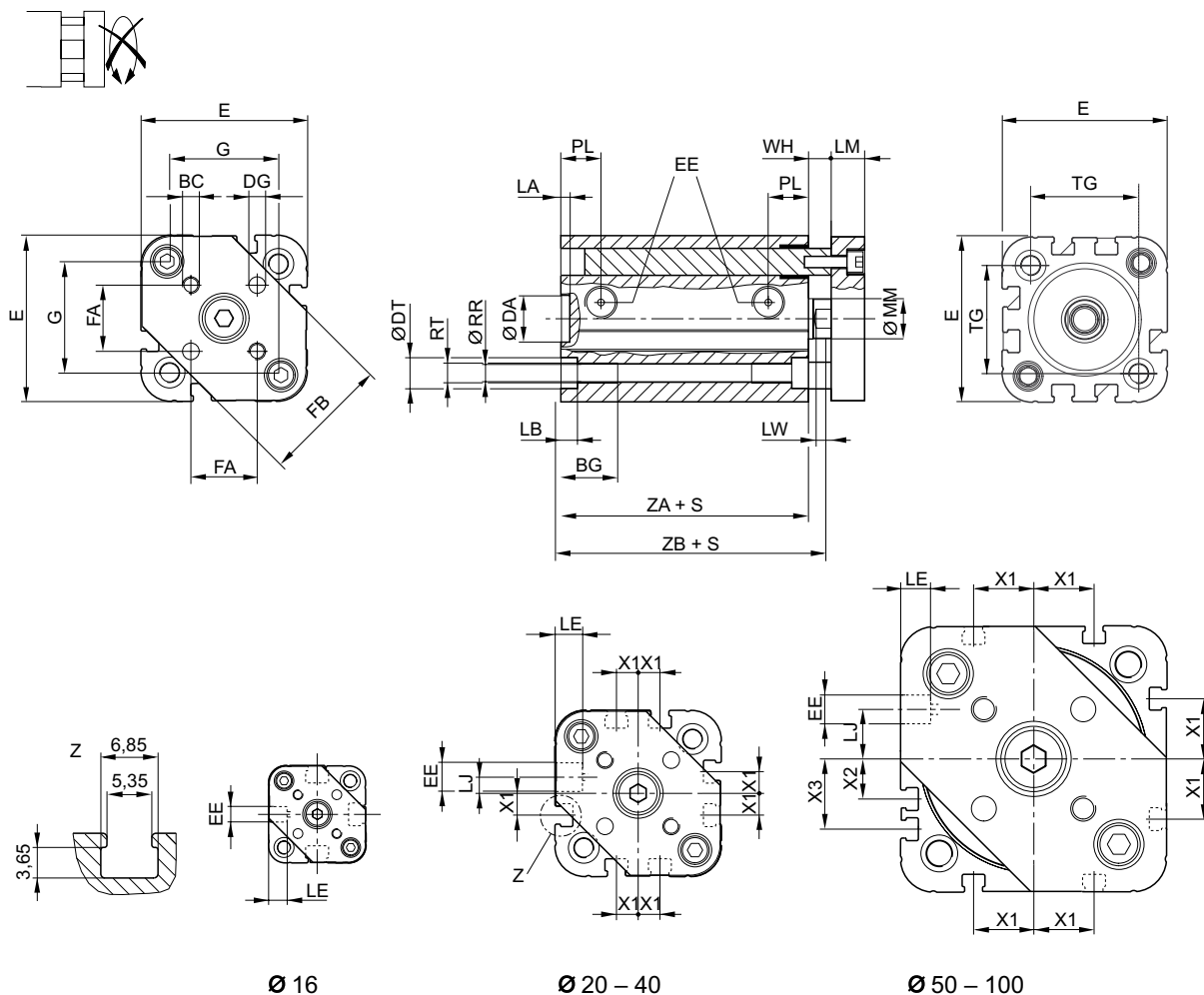
M = max. permissible torque

X = spacing between torque contact surface and cylinder cover

Compact cylinder ISO 21287, Series CCI

► Ports: M5 - G 1/8 ► double-acting ► with magnetic piston ► Cushioning: elastic ► Piston rod: Internal thread, non-rotating, with front plate

Ø 16 - 100 mm



S = stroke

G = distance between the guide rods

TG = distance between the mounting threads

00119662

Piston Ø	BC	BG	DA H11	DG H13	DT	E	EE	FA	FB	G	LA	LB
16	M3	15	10	3	6	29.3	M5	9,9 ±0,1	20	19	2.5	3.5
20	M4	15.5	12	4	7.5	36.3	M5	12 ±0,1	24	25	2.5	4.5
25	M5	15.5	12	5	8	40.3	M5	15,6 ±0,1	30	27	2.5	4.5
32	M5	17	14	5	9.2	50	G 1/8	19,8 ±0,1	38	34	2.5	5
40	M5	17	14	5	9.2	58	G 1/8	23,3 ±0,1	44	42	2.5	5
50	M6	17	18	6	11	68.3	G 1/8	29,7 ±0,1	54	49	2.5	5
63	M6	17	18	6	11	80	G 1/8	35,4 ±0,1	62	60	2.5	5
80	M8	20	23	8	15	96	G 1/8	46 ±0,1	80	72	3	5
100	M10	20	28	10	15	116	G 1/8	56,6 ±0,1	100	92	3	5

Piston Ø	LE	LJ	LM	LW	MM f8	PL	RR	RT 6H	TG	WH	X1	X2	X3
16	4.5	—	6	4	8	8	3.3	M4	18	4,8 ±0,9	—	—	—
20	4.5	4.5	8	4	10	11	4.2	M5	22	6,3 ±0,9	4.2	—	—
25	4.5	4	8	4	10	11	4.2	M5	26	5,6 ±0,9	4.5	—	—
32	7.5	4.85	10	4.5	12	12	5.1	M6	32.5	7,4 ±0,9	6.5	—	—

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
Compact cylinder ISO 21287, Series CCI

▶ Ports: M5 - G 1/8 ▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, non-rotating, with front plate

Piston Ø	LE	LJ	LM	LW	MM f8	PL	RR	RT 6H	TG	WH	X1	X2	X3
40	7.5	9.85	10	4.5	12	12	5.1	M6	38	7,4 ±0,9	11	–	–
50	7.5	12	12	6	16	12	6.7	M8	46.5	8,4 ±0,9	13	4	13
63	7.5	14.8	12	6	16	12	6.7	M8	56.5	8,5 ±0,9	18	12	21
80	7.5	22	14	7	20	14	8.5	M10	72	9,8 ±1	18	16.5	25.5
100	7.5	27	14	7	25	16.5	8.5	M10	89	9,8 ±1	20	20	29

Piston Ø	ZA ±0,1	ZB											
16	34.9	39,7 ±0,8											
20	37.3	43,6 ±0,8											
25	39	44,5 ±0,9											
32	44	51,4 ±1											
40	45	52,4 ±1											
50	45.5	53,6 ±1											
63	49	57,4 ±1											
80	54.7	64,4 ±1											
100	67	76,7 ±1											

All dimensions in mm, unless specified otherwise.

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

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Compact cylinder ISO 21287, Series CCI
▶ Heat-resistant version


00119665

Ambient temperature min./max.	-10°C / +120°C
Medium temperature min./max.	-10°C / +120°C
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³

Materials:	
Cylinder tube	Aluminum, anodized
Front cover	Aluminum
End cover	Aluminum
Seal	Fluorocautchouc
Nut for piston rod	Steel, galvanized
Scraper	Fluorocautchouc

For additional technical data please see the relevant data sheets for the standard version.

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.

Configurable product


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

Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI-TD



24149

Compressed air connection	Internal thread
Working pressure min./max.	15 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	91.35 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane
Tie rod nuts	Steel, galvanized

An example configuration is illustrated. The delivered product may thus deviate from the illustration.

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- This product can be configured with 2x, 3x, or 4x extending piston force.

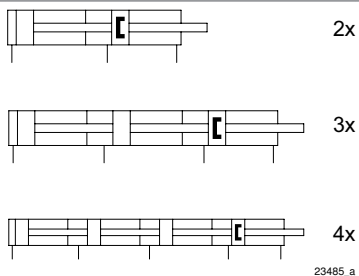
Piston Ø		[mm]	25	40	63	100
Retracting piston force		[lbf]	49.46	125.89	332.7	537.27
Piston force	Tandem, 2x	[lbf]	139	345	883	2224
extracting	Tandem, 3x	[lbf]	208	533	1324	3337
theoretical	Tandem, 4x	[lbf]	278	712	1765	4449
Impact energy		[inch]	0.1475	0.3835	0.5531	0.5531
Weight	Tandem, 2x	[lbs]	0.639	1.43	3.48	9.1
0 mm stroke						
	- Tandem, 3x	[lbs]	0.815	2.02	4.65	12.5
	Tandem, 4x	[lbs]	0.992	2.53	5.82	15.85
Weight	Tandem, 2x	[lbs]	0.132	0.275	0.44	0.749
+10 mm stroke						
	- Tandem, 3x	[lbs]	0.198	0.407	0.64	1.12
	Tandem, 4x	[lbs]	0.264	0.529	0.848	1.49
Stroke max.		[inch]	7.87	7.87	7.87	7.87

Configurable product

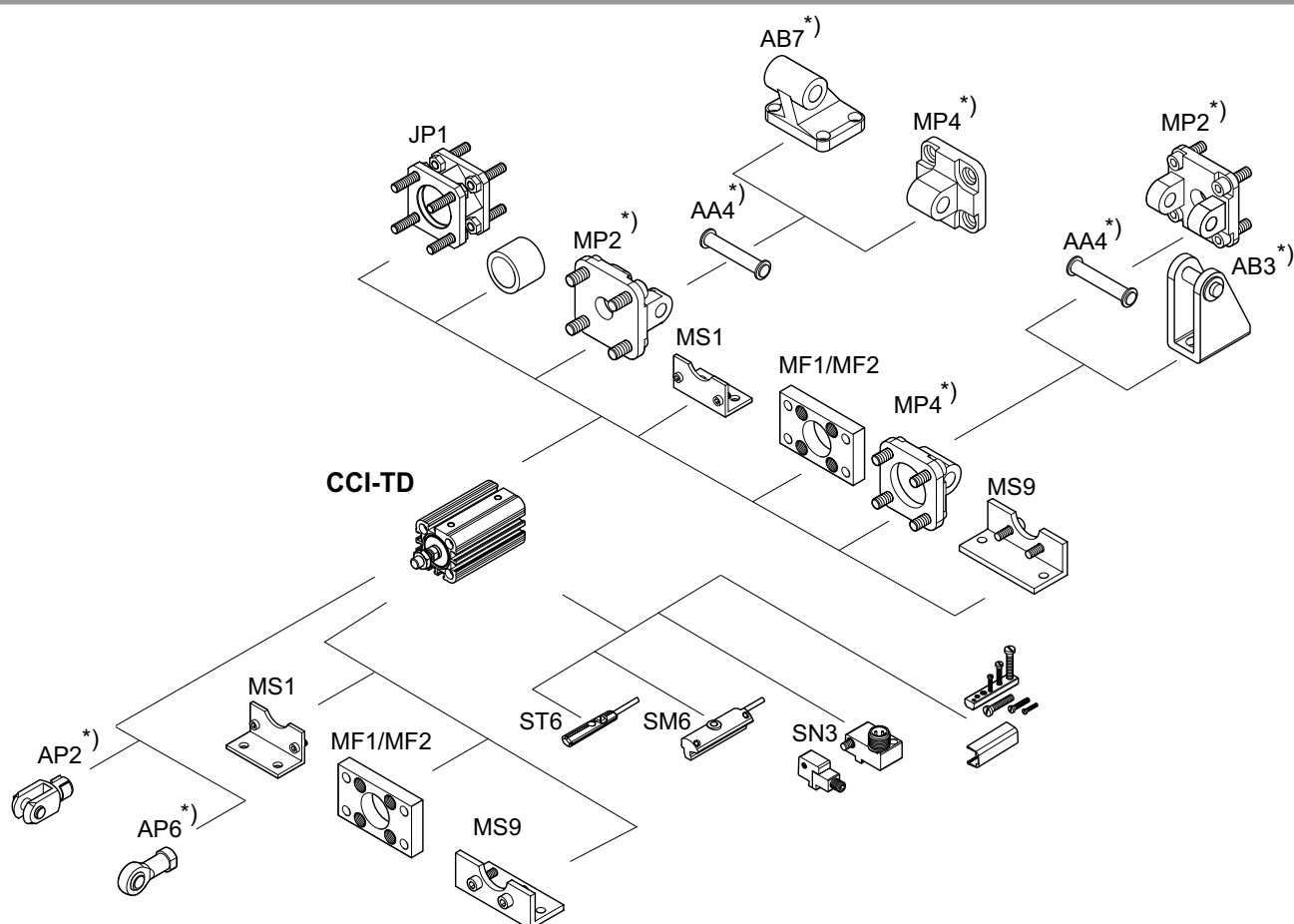


This product is configurable. Please use our Internet configurator at <http://www.aventics.com> or contact the nearest AVENTICS sales office.

Circuit symbol



Accessories overview



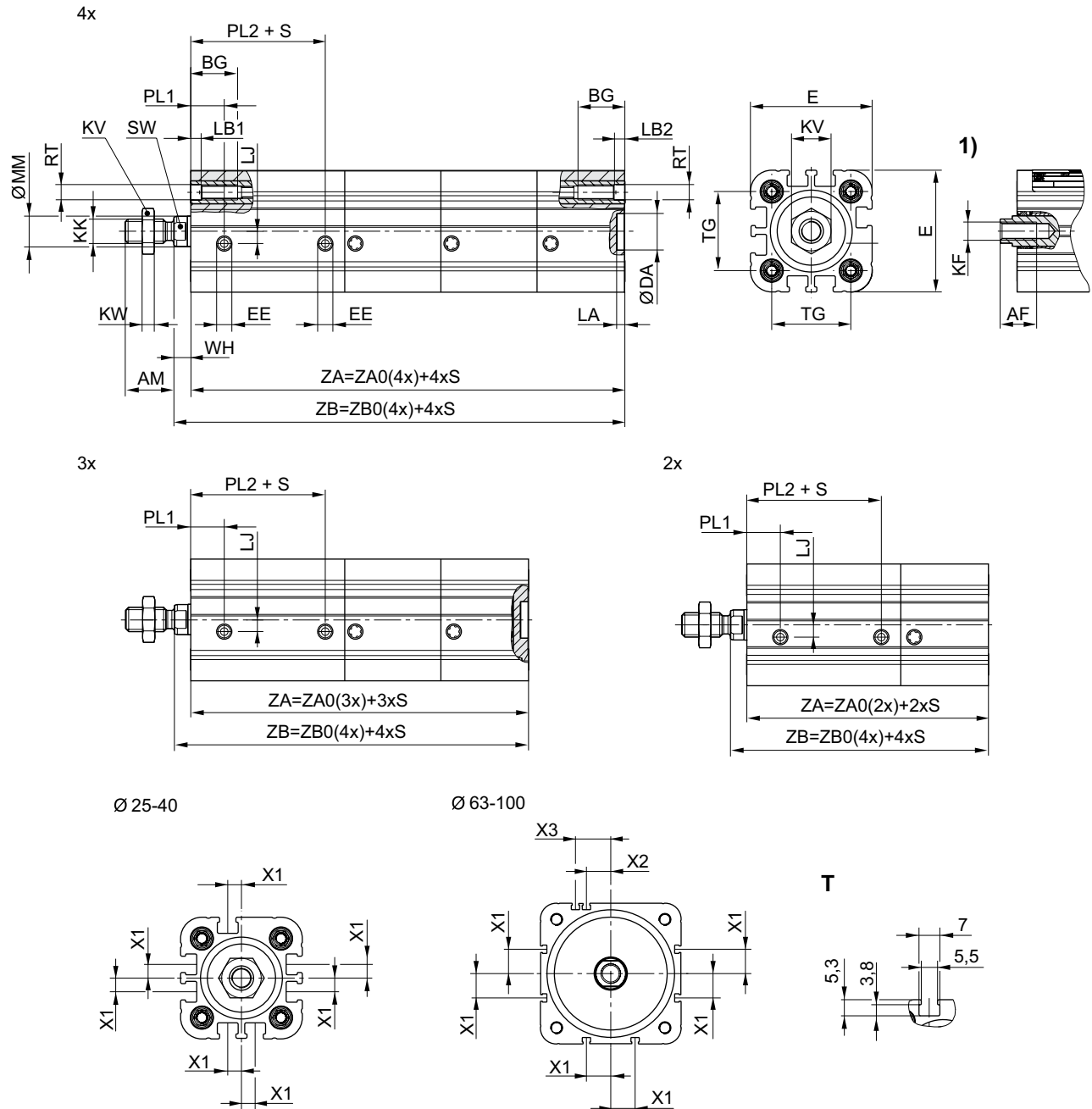
* Can only be used for 2x tandem

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Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI-TD

Dimensions



S = stroke
T = View for sensor groove
1) Internal thread

23485

Ø	AM / 1)	BG 2)	DA H11	E	EE	KF x AF	KK	KV	KW	LA	LB1	LB2
25	16 / 32	15.5	12	40.3	M5	M6x12	M8	13	4	2.5	3.5	3.5
40	22 / 44	17	14	58	G 1/8	M10x16	M12x1,25	18	6	2.5	4	4
63	28 / 56	18	18	80	G 1/8	M12x20	M16x1,5	24	8	2.5	5.5	5.5
100	40 / 80	20	28	116	G 1/8	M16x24	M20x1,5	30	10	3	—	5.5

All dimensions in mm, unless specified otherwise.

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

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ISO 21287, Series CCI-TD

Ø	LJ	MM	PL 1	PL 2	RT	SW h13	TG	WH	X1	X2	X3
25	4	10	11	34	M5	8	26 ±0,4	5,6 ±1,4	4.5	–	–
40	9	16	12	36.5	M6	13	38 ±0,5	8,4 ±1,6	11	–	–
63	15	20	12	45	M8	16	56,5 ±0,7	9,8 ±1,6	18	12	21
100	27	25	16.5	58.5	M10	21	89 ±0,7	10 ±2	20	20	29

Ø	ZA0 2x ±0,5	ZA0 3x ±0,8	ZA0 4x ±1,0	ZB0 2x	ZB0 3x	ZB0 4x						
25	59.5	81	102.5	65,1 ±1,4	86,6 ±1,4	108,1 ±1,4						
40	65.5	89	112.5	73,9 ±1,6	97,4 ±1,6	120,9 ±1,6						
63	84	115.5	147	93,8 ±1,6	125,3 ±1,6	156,8 ±1,6						
100	110	147.5	185	120 ±2	157,5 ±2	195 ±2						

1) Max.

2) Min.

Piston rod cylinders ▶ Standard cylinders

Series CCI-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 5 positions



IM0043903

Compressed air connection	Internal thread
Working pressure min./max.	22 psi / 145 psi
Ambient temperature min./max.	-4 °F / +176 °F
Medium temperature min./max.	-4 °F / +176 °F
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 mg/m³ - 5 mg/m³
Pressure for determining piston forces	91.35 psi
Materials:	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane

Technical Remarks

- The pressure dew point must be at least 27 °F under ambient and medium temperature and may not exceed 37 °F.
- The oil content of compressed air must remain constant during the life cycle.
- Use only the approved oils from AVENTICS, see chapter „Technical information“.
- In case of tensile load, positioning for intermediate strokes is only possible with counter pressure in the front chamber.
- Use our Internet configurator to order variants with an external thread.

Piston Ø	[mm]	25	40	63	100
Retracting piston force	[lbf]	58.45	149.49	397	1042.85
Extracting piston force	[lbf]	69.46	178.04	441.51	1112.31
Impact energy	[inch]	0.2212	0.5162	0.9588	1.84
Max. single stroke	[inch]	15.75	33.46	33.46	33.46
Stroke max.	[inch]	39.37	78.74	78.74	78.74

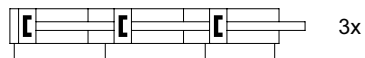
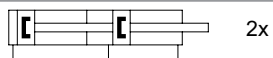
Configurable product



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

Series CCI-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 5 positions

Circuit symbol


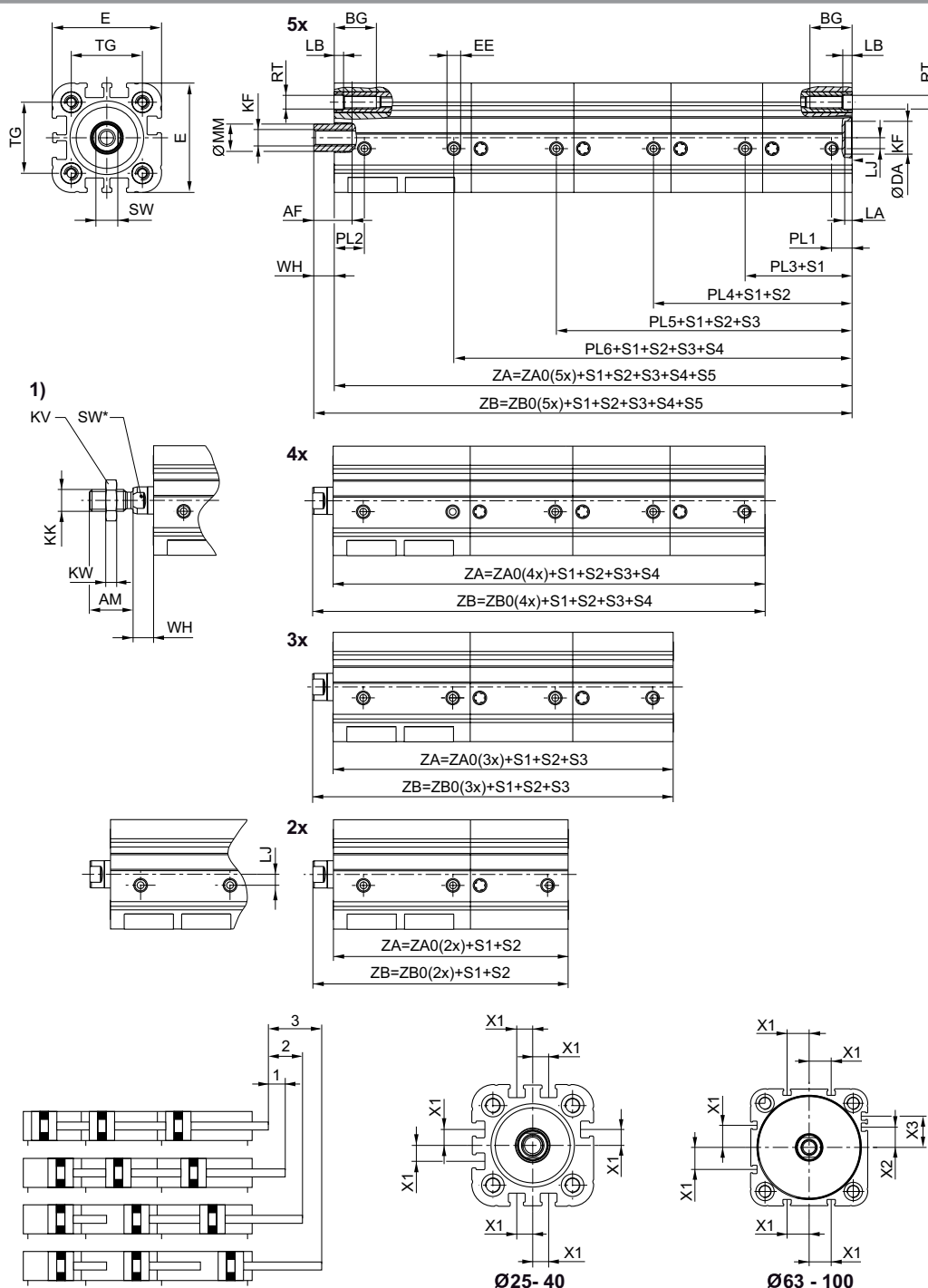
IM0043709

Piston rod cylinders ▶ Standard cylinders

Series CCI-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 5 positions

Dimensions



S = stroke

1) external thread

Use our Internet configurator to order variants with an external thread.

IM0043706

All dimensions in mm, unless specified otherwise.

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Series CCI-Multiple position

▶ double-acting ▶ with magnetic piston ▶ Cushioning: elastic ▶ Piston rod: Internal thread, Reinforced ▶ multi-position cylinder: 5 positions

Ø	AF 1)	AM (2)	BG 1)	DA H11	E	EE	KF 6H	KK	KV	KW	LA	LB 2)
25	14	16 (32)	15.5	12	40	M5	M6	M8	13	4	2.5	3.5
40	20	24 (48)	17	14	58	G 1/8	M10	M12x1,25	18	6	2.5	4
63	20	32 (64)	18	18	80	G 1/8	M12	M16x1,5	24	8	2.5	5.5
100	26	40 (80)	20	28	116	G 1/8	M16	M20x1,5	30	10	3	6.5

Ø	LJ	MM f8	PL 1	PL 2	PL 3	PL4	PL5	PL6	RT	SW h13	SW*	TG
25	4	10	7.5	11	37.1	66.6	96.1	125.6	M5	8	–	26 ±0,4
40	9	16	12	12	44.1	72.6	101.1	129.6	M6	13	13	38 ±0,5
63	15	20	10	12	46.3	82.8	119.3	155.8	M8	16	16	56,5 ±0,7
100	27	25	13	16.5	61.4	109.2	157	204.8	M10	21	21	89 ±0,7

Ø	WH	X1	X2	X3	ZA0 (2x) ±0,5	ZA0 (3x) ±0,8	ZA0 (4x) ±1,1	ZA0 (5x) ±1,4	ZB0 (2x)	ZB0 (3x)
25	7,5 ±1,4	4.5	–	–	70,8	100,3	129,8	159,3	78.3	107.8
40	9,5 ±1,6	11	–	–	78,5	107	135,5	164	88	116.5
63	10 ±1,6	18	12	21	90,9	127,4	163,9	200,4	100.9	137.4
100	12 ±2,0	20	20	29	119,4	167,2	215	262,8	131.4	179.2

Ø	ZB0 (4x)	ZB0 (5x)										
25	137.3	166.8										
40	145	173.5										
63	173.9	210.4										
100	227	274.8										

1) Min.

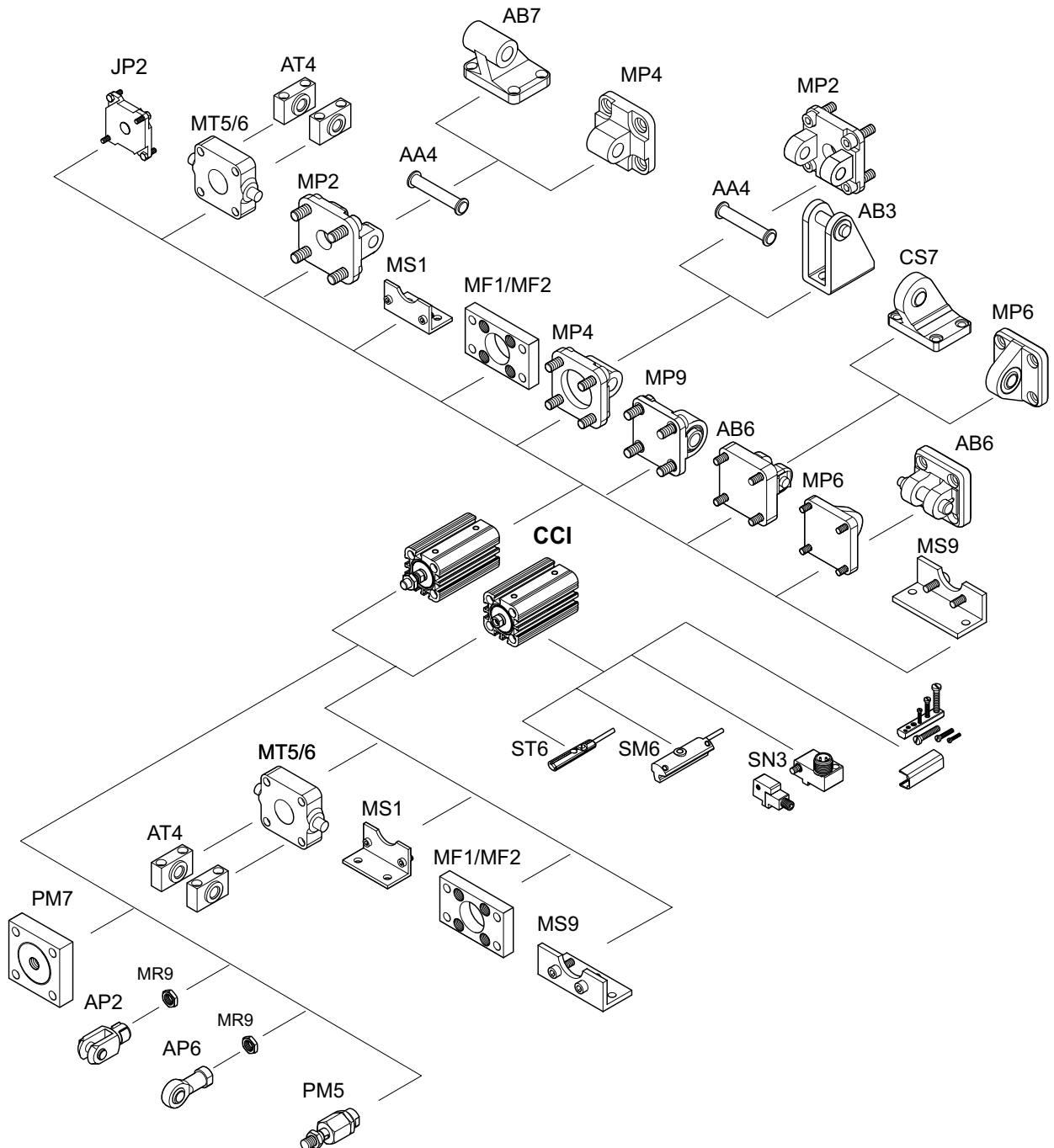
2) Max.

* Hexagonal wrench flats

ISO 21287, Series CCI Accessories

Accessories overview

Overview drawing



IM0042715

Due to the high possible forces, not all add-on parts are suitable for CCI tandem (see CCI-TD accessories overview).

NOTE:

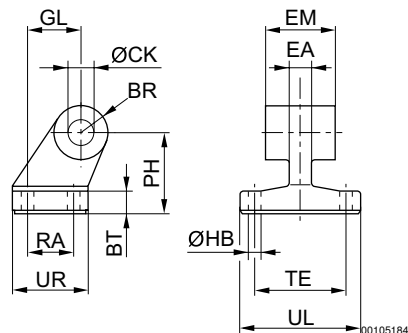
This overview drawing is only for orientation to see where the various accessory parts can be fastened to the cylinder. The illustration has been simplified for this purpose. It is thus not possible to derive the dimensions from this overview.

ISO 21287, Series CCI
Accessories
Bearing block, Series AB7

▶ Cylinder mounting in accordance with ISO 15552



00105160



00105184

Part No.	Piston Ø	BR	BT	Ø CK H9	Ø HB H13	EM	GL JS14	EA 1)	PH JS15	RA JS14	TE JS14
1825805275	32	10	8	10	6.6	26 -0,2/-0,6	21	10	32	18	38
1825805276	40	11	10	12	6.6	28 -0,2/-0,6	24	12	36	22	41
1825805277	50	13	12	12	9	32 -0,2/-0,6	33	16	45	30	50
1825805278	63	15	12	16	9	40 -0,2/-0,6	37	16	50	35	52
1825805279	80	15	14	16	11	50 -0,2/-0,6	47	20	63	40	66
1825805280	100	19	15	20	11	60 -0,2/-0,6	55	20	71	50	76

Part No.	UL 1)	UR 1)									
1825805275	51	31									
1825805276	54	35									
1825805277	65	45									
1825805278	67	50									
1825805279	86	60									
1825805280	96	70									

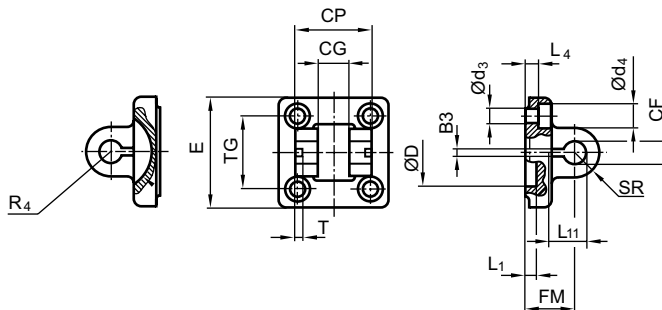
1) Max.
 Material: Nodular graphite iron
 Surface: galvanized

Clevis mounting, Series AB6

▶ Cylinder mounting in accordance with ISO 15552



24547



00105819

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

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI
Accessories

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
1827001593	32	3.3	10	14	34	6.6	11	30	49	22	4.5	5.5
1827001594	40	4.3	12	16	40	6.6	11	35	55	25	4.5	5.5
1827001595	50	4.3	16	21	45	9	15	40	67	27	4.5	6.5
1827002024	63	4.3	16	21	51	9	15	45	77	32	4.5	6.5
1827001597	80	4.3	20	25	65	11	18	45	97	36	4.5	10
1827001598	100	4.3	20	25	75	11	18	55	117	41	4.5	10

Part No.	L11 -0,5	R4	SR	T ±0,2	TG							
1827001593	16.5	17	11	3	32,5 ±0,2							
1827001594	18	20	12	4	38 ±0,2							
1827001595	23	22	15	4	46,5 ±0,2							
1827002024	23	25	15	4	56,5 ±0,2							
1827001597	27	30	20	4	72 ±0,2							
1827001598	27	32	20	4	89 ±0,2							

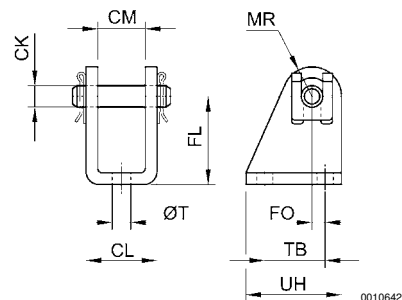
1) Min.
Material: Aluminum (forged)

Clevis mounting, Series AB3



00105159

Scope of delivery: clevis mounting incl. pivot pins



00106429

Part No.	Piston Ø	CM	Ø CK	CL	FL	FO	MR	Ø T	TB	UH		
1827001446	12, 16	12,1	6	18,1	27	2,0	7	5,5	15	25		
1827001445	20, 25	16,1	8	24,1	30	4,0	10	6,6	20	32		

Material: Steel
Surface: galvanized

ISO 21287, Series CCI

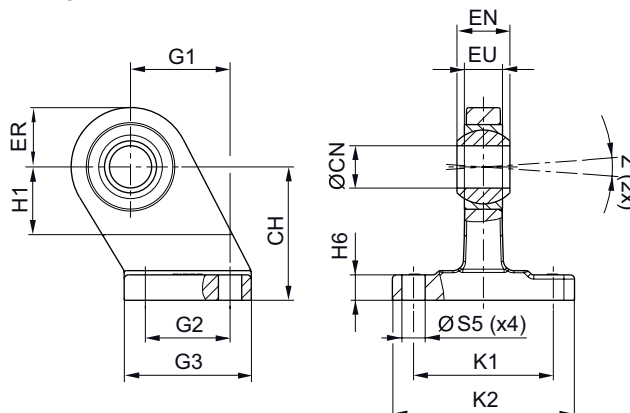
Accessories

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
1827001784	32	32	10	10.5	14	16	21	18	31	16	9 ±1	38
1827001785	40	36	12	12	16	18	24	22	35	20	9 ±1	41
1827001786	50	45	16	15	21	21	33	30	45	22	11 ±1	50
1827001787	63	50	16	15	21	23	37	35	50	27	11 ±1	52
1827001788	80	63	20	18	25	28	47	40	60	31	12 ±1,5	66
1827001789	100	71	20	18	25	30	55	50	70	38	13 ±1,5	76

Part No.	K2 1)	ØS5 H13	Z 2)									
1827001784	51	6.6	4°									
1827001785	54	6.6	4°									
1827001786	65	9	4°									
1827001787	67	9	4°									
1827001788	86	11	4°									
1827001789	96	11	4°									

1) Max.

2) Min.

Material: Nodular graphite iron

Surface: galvanized

Piston rod cylinders ▶ Standard cylinders

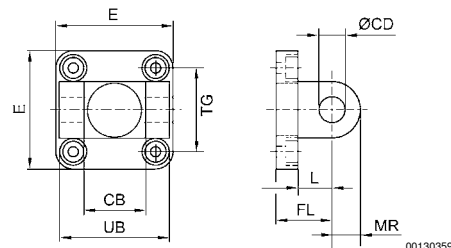
ISO 21287, Series CCI Accessories

Clevis mounting, Series MP2

► Cylinder mounting in accordance with ISO 15552



P523_025



00130359

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		
1827001289	32	26	10	49 ±1	22	12	10	45	32,5 ±0,2		
1827001290	40	28	12	53 ±1	25	15	13	52	38 ±0,2		
1827001291	50	32	12	63 ±1	27	15	13	60	46,5 ±0,2		
1827001500	63	40	16	73 ±1	32	18	17	70	56,5 ±0,2		
1827001293	80	50	16	98 ±1	36	20	17	90	72,0 ±0,2		
1827001294	100	60	20	115 ±1	41	25	18	110	89,0 ±0,2		

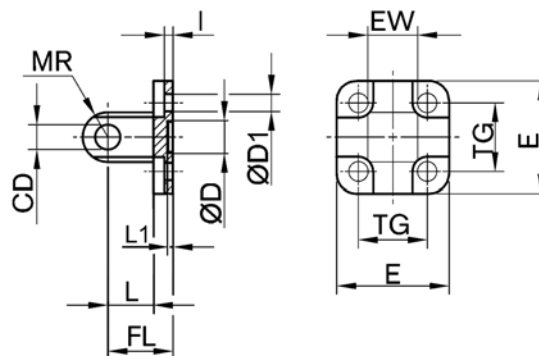
1) Min.
2) Max.
Material: Aluminum (forged)

Rear eye, Series MP4

► 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)
1825805368	16	6	10 H13	4.5	27	12 -0,2/-0,6	16	2.6	10	3	6
1827002300	20	8	12 H13	5.5	34	16 -0,2/-0,6	20	2.6	14	3	8
1827002301	25	8	12 H13	5.5	40	16 -0,2/-0,6	20	2.6	14	3	8
1827001283	32	10	30 H11	6.6	48	26 -0,2/-0,6	22	5.5	12	4.5	10
1827001284	40	12	35 H11	6.6	53	28 -0,2/-0,6	25	5.5	15	4.5	12

All dimensions in mm, unless specified otherwise.

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ISO 21287, Series CCI
Accessories

Part No.	Piston Ø	CD H9	Ø D	Ø D1	E	EW	FL ±0,2	I ±0,5	L 1)	L1 1)	MR 2)
1827001285	50	12	40 H11	9	63	32 -0,2/-0,6	27	6.5	15	4.5	12
1827020086	63	16	45 H11	9	73	40 -0,2/-0,6	32	6.5	20	4.5	16
1827001287	80	16	45 H11	11	98	50 -0,2/-0,6	36	10	20	4.5	16
1827001288	100	20	55 H11	11	115	60 -0,2/-0,6	41	10	25	4.5	20

Part No.	TG	Standardiza- tion	Note								
1825805368	18 ±0,2	-	3)								
1827002300	22 ±0,4	ISO 21287	4) 6)								
1827002301	26 ±0,4	ISO 21287	4) 6)								
1827001283	32,5 ±0,2	ISO 15552	5)								
1827001284	38 ±0,2	ISO 15552	5)								
1827001285	46,5 ±0,2	ISO 15552	5)								
1827020086	56,5 ±0,2	ISO 15552	5)								
1827001287	72 ±0,2	ISO 15552	5)								
1827001288	89 ±0,2	ISO 15552	5)								

- 1) Min.
 2) Max.
 3) Material: Die-cast aluminum
 4) Material: Steel
 5) Material: Aluminum (forged)
 6) Surface: galvanized

Bolts, AA4

Fig. 1

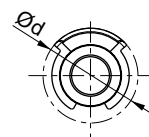
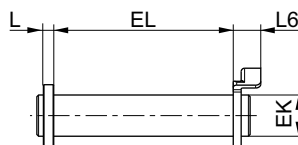
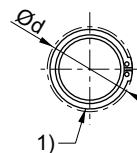


Fig. 2



21294

Scope of delivery: pivot pins incl. circlips
 1) circlip DIN 471

Piston rod cylinders ► Standard cylinders

ISO 21287, Series CCI
Accessories

Part No.	Piston Ø	Ø d 2)	EK e8	EL	L 2)	L6 2)	Weight [lbs]	Fig.			
1823120020	32	20	10	45,2 +0,3	3.5	9	0.0661	Fig. 1			
1823120021	40	22	12	52,2 +0,3	4	9	0.1102	Fig. 1			
1823120022	50	22	12	60,2 +0,3	4	9	0.1322	Fig. 1			
1823120023	63	28	16	70,2 +0,3	4.5	11	0.2645	Fig. 1			
1823120024	80	28	16	90,2 +0,3	4.5	11	0.3306	Fig. 1			
1823120025	100	38	20	110,2 +0,3	5	11	0.6393	Fig. 1			

2) Max.
Material: Steel
Surface: galvanized

ISO 21287, Series CCI
Accessories
Rear eye, Series MP9

▶ Cylinder mounting in accordance with ISO 15552 ▶ With rubber bushing

Fig. 1



IM0043848

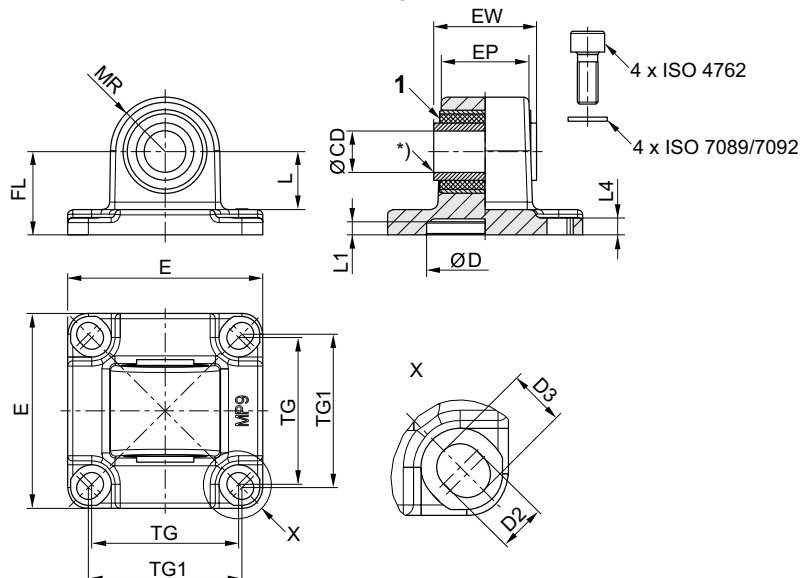
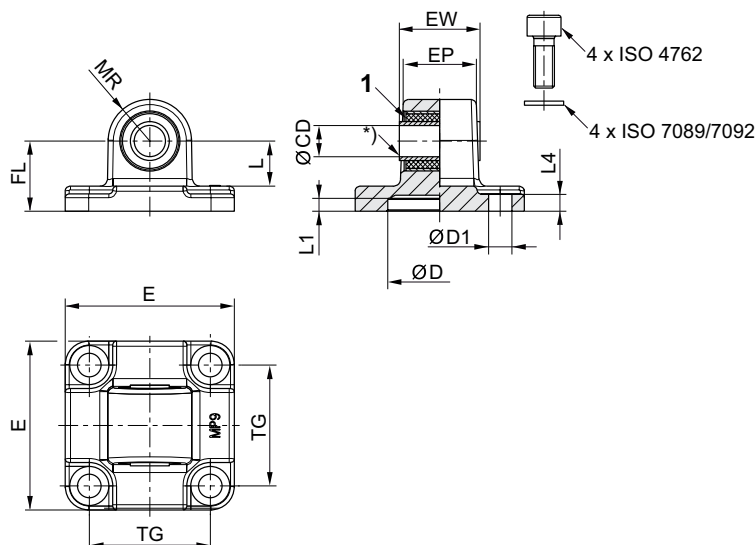


Fig. 2



IM0043825

1) Rubber bushing

* Plain bearing material: bronze (Ø125: steel, galvanized)

Scope of delivery: clevis incl. mounting screws

Part No.	Piston Ø	CD H11	CD H9	E	EW	EP	TG	TG1 ±0,2	FL ±0,2	MR	L 1)	L1
3683203000	32	10	—	46	25.5	18.9	32.5	—	22	12.5	13.8	5
3683204000	40	—	12	53	27	23.5	38	40	25	15	16.3	5
3683205000	50	—	12	65	31	28	46.5	—	27	16	17.3	5
3683206000	63	—	16	75	39.5	33.5	56.5	59	32	21	22.3	5
3683208000	80	—	16	94.5	49.5	43	72	—	36	22	21.8	5
3683210000	100	—	20	114	59.5	54	89	90	41	25	25.8	5

All dimensions in mm, unless specified otherwise.

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Piston rod cylinders ► Standard cylinders

ISO 21287, Series CCI
Accessories

Part No.	L4	D H11	D1 H13	D2 -0,2	D3 -0,2	Weight [lbs]	Fig.	Note				
3683203000	5.5	30	6.6	—	—	0.2028	Fig. 2	3)				
3683204000	5.5	35	—	6.6	8	0.3152	Fig. 1	3)				
3683205000	6.5	40	9	—	—	0.4783	Fig. 2	-				
3683206000	6.5	45	—	9	10.8	0.906	Fig. 1	3)				
3683208000	10	45	11	—	—	1.41	Fig. 2	-				
3683210000	10	55	—	11	11.7	2.11	Fig. 1	3)				

1) Min.

2) CAD files *_iso.* (suitable for cylinders according to ISO 21287) and *_167.* (suitable for 167 series cylinders)

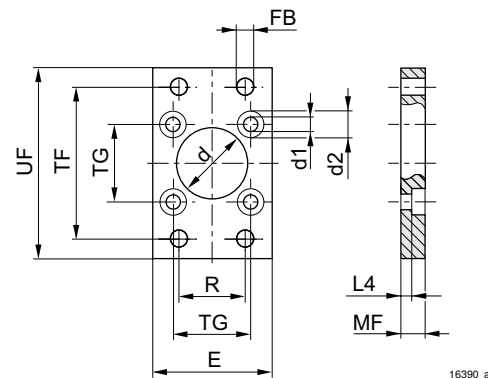
3) suitable for 167 series cylinders

Material: Aluminum (forged)

Flange mounting, Series MF1, MF2



00105812



16390_a

Scope of delivery: flange mounting incl. mounting screws

Part No.	Piston Ø	d	Ø d1	Ø d2	E	Ø FB	L4	MF	R	TF	TG
1821038241	16	10	4.5	10	29	5.5	5.6	10	—	43	18
1827002292	20	12	5.5	10	36	6.6	4.6	10	—	55	22
1827002293	25	12	5.5	10	40	6.6	4.6	10	—	60	26

Part No.	UF	Weight [lbs]									
1821038241	55	0.1102									
1827002292	70	0.3968									
1827002293	76	0.507									

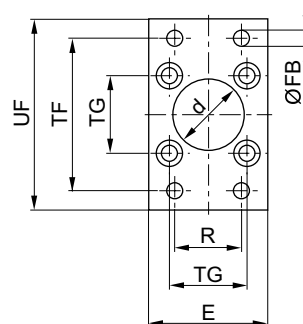
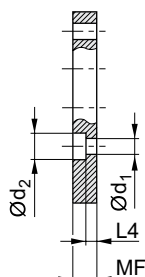
Material: Steel

Surface: galvanized

ISO 21287, Series CCI
 Accessories

Flange mounting, Series MF1, MF2

▶ Cylinder mounting in accordance with ISO 15552



00126399

00105812

Scope of delivery: flange mounting incl. mounting screws

Part No.	Piston Ø	Ød H11	Ød1	Ød2	E 1)	ØFB	L4	MF	R	TF	TG
1827001277	32	30	6.6	11	50	7	4.5	10	32	64	32,5 ±0,2
1827001278	40	35	6.6	11	55	9	4.5	10	36	72	38 ±0,2
1827001279	50	40	9	15	65	9	6	12	45	90	46,5 ±0,2
1827001499	63	45	9	15	75	9	6	12	50	100	56,5 ±0,2
1827001281	80	45	11	18	100	12	9	16	63	126	72 ±0,2
1827001282	100	55	11	18	120	14	9	16	75	150	89 ±0,2

Part No.	UF										
1827001277	80										
1827001278	90										
1827001279	110										
1827001499	125										
1827001281	154										
1827001282	186										

 1) Max.
 Material: Steel
 Surface: galvanized

Piston rod cylinders ▶ Standard cylinders

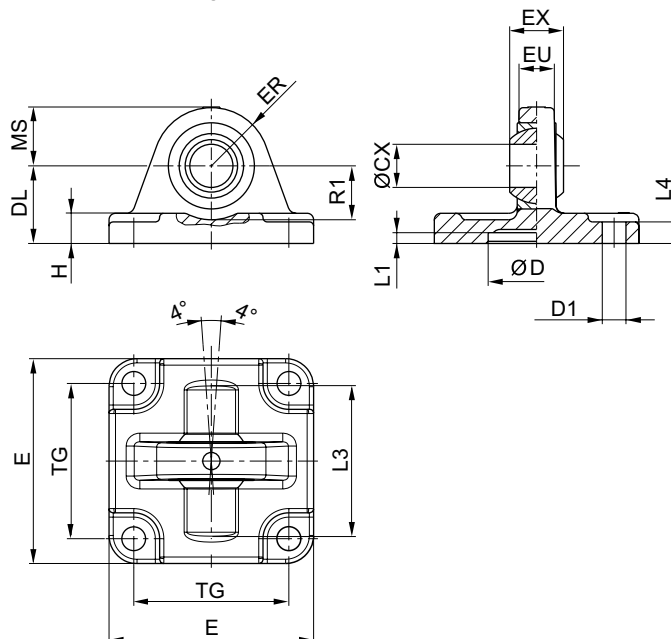
ISO 21287, Series CCI
Accessories

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

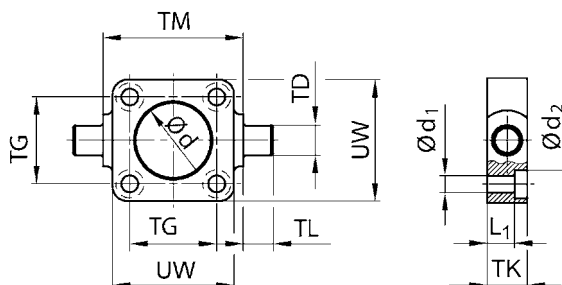
Part No.	Piston Ø	ØCX H7	ØD H11	ØD1 H13	DL ±0,2	E	EX -0,1	ER	EU	H	L1 1)	L3
1827001619	32	10	30	6.6	22	47	14	15	10.5	9	4.5	36
1827001620	40	12	35	6.6	25	53	16	18	12	9	4.5	42
1827001621	50	16	40	9	27	65	21	20	15	10.5	4.5	48
1827020087	63	16	45	9	32	75	21	23	15	10.5	4.5	55
1827001623	80	20	45	11	36	95	25	27	18	14	4.5	70
1827001624	100	20	55	11	41	115	25	30	18	15	4.5	80

Part No.	L4	MS -0,5	R1 1)	TG	Weight [lbs]							
1827001619	5.5	15	12	32,5 ±0,2	0.2204							
1827001620	5.5	18	15	38 ±0,2	0.2204							
1827001621	6.5	21	19	46,5 ±0,2	0.4409							
1827020087	6.5	23	21	56,5 ±0,2	0.6613							
1827001623	10	27	24	72 ±0,2	1.32							
1827001624	10	30	25	89 ±0,2	1.76							

1) Min.
Material: Aluminum (forged)

ISO 21287, Series CCI
Accessories
Trunnion mounting, front or rear, Series MT5, MT6


00128925



00126407

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
1825805360	20	CCI KPZ	18	5.5	10	8	12	22	14	12	38
1825805361	25	CCI KPZ	22	5.5	10	8	12	26	14	12	42
1827001609	32	CCI CVI ICL PRA TRB	30	6.6	11	7.5	12	32.5	16	12	50
1827001610	40	CVI ICL PRA TRB	35	6.6	11	7.5	16	38	20	16	63
1827001611	50	CVI ICL PRA TRB	40	9	15	10	16	46.5	24	16	75
1827002046	63	CVI ICL PRA TRB	45	9	15	10	20	56.5	24	20	90
1827001613	80	CVI ICL PRA TRB	45	11	18	16	20	72	28	20	110
1827001614	100	CVI ICL PRA TRB	55	11	18	25.5	25	89	38	25	132

Part No.	Piston Ø	UW									
1825805360	20	35									
1825805361	25	39									
1827001609	32	48									
1827001610	40	56									
1827001611	50	65									
1827002046	63	75									
1827001613	80	100									

Material: Nodular graphite iron
 Surface: galvanized

All dimensions in mm, unless specified otherwise.

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

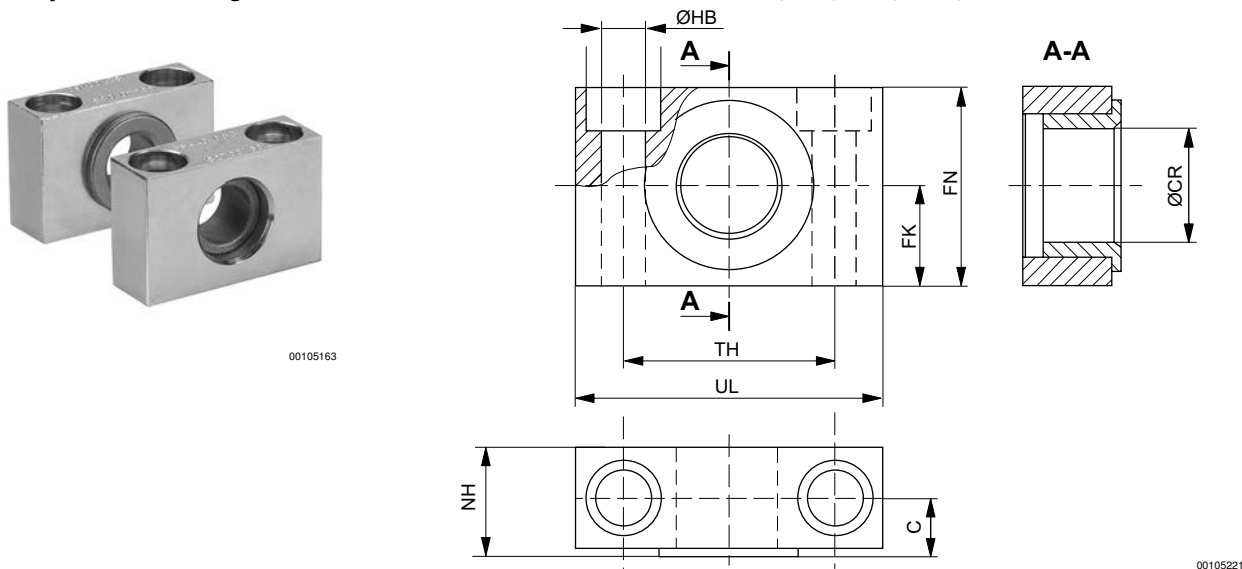
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Piston rod cylinders ▶ Standard cylinders
ISO 21287, Series CCI
Accessories

Part No.	Piston Ø	UW										
1827001614	100	120										
Material: Nodular graphite iron Surface: galvanized												

Bearing brackets MT4, MT5, MT6, Series AT4

▶ Cylinder mounting in accordance with ISO 15552 ▶ for Series CCI, ICL, KPZ, PRA, TRB



Part No.	Piston Ø	For series	UL	NH	TH	C	CR H9	HB H13	FN	FK
1827001603	20, 25, 32	CCI ICL KPZ PRA TRB	46	18	32 ±0,2	10.5	12	6.6	30	15 ±0,1
1827001604	40, 50	CCI ICL KPZ PRA TRB	55	21	36 ±0,2	12	16	9	36	18 ±0,1
1827001605	63, 80	CCI ICL KPZ PRA TRB	65	23	42 ±0,2	13	20	11	40	20 ±0,1
1827001606	100, 125	CCI ICL KPZ PRA TRB	75	28.5	50 ±0,2	16	25	14	50	25 ±0,1

All dimensions in mm, unless specified otherwise.

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

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ISO 21287, Series CCI
Accessories

Part No.	Piston Ø	Plain bearing	Delivery quantity [Piece]								
1827001603	20, 25, 32	Sintered bronze	2								
1827001604	40, 50	Sintered bronze	2								
1827001605	63, 80	Sintered bronze	2								
1827001606	100, 125	Sintered bronze	2								

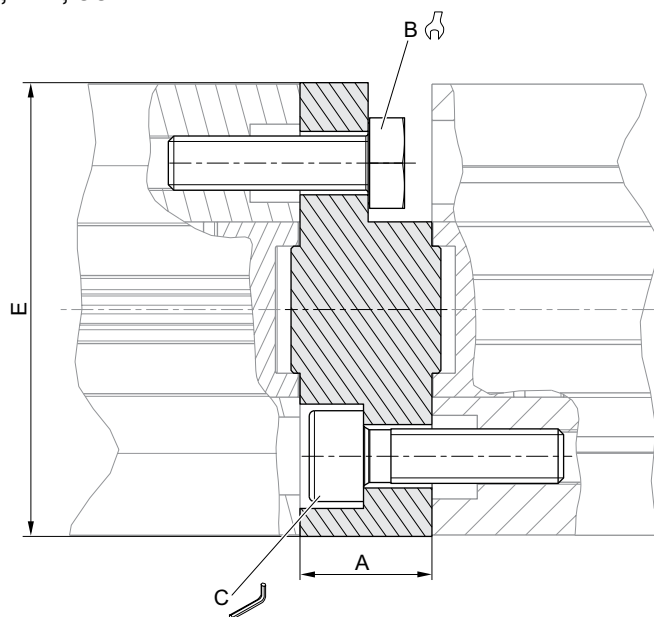
Material: Steel
Surface: galvanized
Bushing material: Sintered bronze

Intermediate flange, Series JP2

► for multi-position cylinders ► for Series CCI, KPZ, CCI



IM0043337



00105190

Part No.	Piston Ø	For series	A	B	C	Md [Nm] 1)	E					
1827020290	16	CCI KPZ	12.5	7	–	2.5	28.4					
1827020267	20	CCI KPZ	12.5	8	–	4	35					
1827020268	25	CCI KPZ	13	8	4	4	40					
1827020269	32	CCI KPZ	14.5	10	5	4	50					
1827020270	40	CCI KPZ	14.5	10	5	4	57.1					
1827020271	50	CCI KPZ	14.5	13	6	8	67.4					

1) torque
Material: Aluminum

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

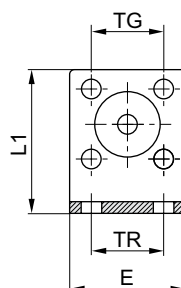
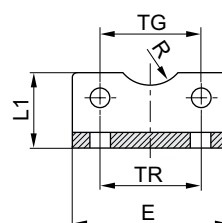
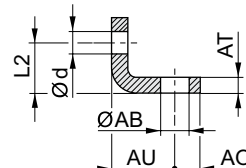
Part No.	Piston Ø	For series	A	B	C	Md [Nm] 1)	E					
1827020272	63	CCI KPZ	14.5	13	6	8	80					
R412024535	80	CCI	16.5	16	8	16	95					
R412024536	100	CCI	19.5	16	8	16	115					

1) torque
Material: Aluminum

Foot mounting, Series MS1



00105808


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
1821332053	16	KPZ CCI	5.5	5	3	13	4.5	29	35.5	13
1827002284	20	KPZ CCI	6.6	6	4	16	5.4	36	22	16
1827002285	25	KPZ CCI	6.6	6	4	16	5.4	40	23	17
1827001271	32	ICL CCI PRA TRB CVI	7	8	4 ±0,3	24	6.6	48	25	15.5
1827001272	40	ICL CCI PRA TRB CVI	10	10	4 ±0,3	28	6.6	56	26	17
1827001273	50	ICL CCI PRA TRB CVI	10	11	5 ±0,3	32	9	68	32	21.5
1827001498	63	ICL CCI PRA TRB CVI	10	13	5 ±0,3	32	9	78	34	21.5
1827001275	80	ICL CCI PRA TRB CVI	12	16	6 ±0,5	41	11	98	47	27

All dimensions in mm, unless specified otherwise.

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

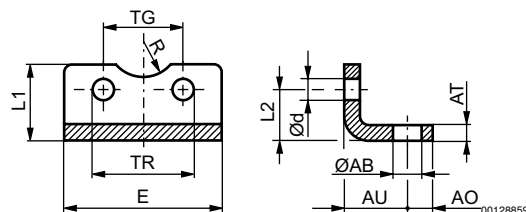
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ISO 21287, Series CCI
Accessories

Part No.	Piston Ø	For series	ØAB	AO	AT	AU ±0,2	Ød	E	L1	L2
1827001276	100	ICL CCI PRA TRB CVI	14.5	19	6 ±0,5	41	11	117	52	26.5

Part No.	Piston Ø	R	TG	TR	Standardiza- tion					
1821332053	16	8	18 ±0,2	18	-					
1827002284	20	10	22 ±0,2	22	-					
1827002285	25	11	26 ±0,2	26	-					
1827001271	32	15	32,5 ±0,2	32	ISO 15552					
1827001272	40	17.5	38 ±0,2	36	ISO 15552					
1827001273	50	20	46,5 ±0,2	45	ISO 15552					
1827001498	63	22.5	56,5 ±0,2	50	ISO 15552					
1827001275	80	22.5	72 ±0,2	63	ISO 15552					
1827001276	100	27.5	89 ±0,2	75	ISO 15552					

Material: Steel
Surface: galvanized

Foot mounting, long, Series MS9


Scope of delivery: 2 foot mountings incl. mounting screws

00131791

Part No.	Piston Ø	Ø AB H13	AO	AT	AU	Ø d	E	L1	L2	R	TG ±0,1	TR JS14
1827001018	32	7	12	5	18	6.6	79	30	15.8	15	32.5	65
1827001019	40	10	12	5	18	6.6	90	30	17	17.5	38	75
1827001020	50	10	14	5	21	9	110	35	21.7	20	46.5	90
1827020085	63	10	14	5	21	9	120	35	21.7	25	56.5	100
1827001022	80	12	13	5	27	11	153	50	27	22.5	72	128
1827001023	100	14.5	13	5	27	11	178	50	26.5	27.5	89	148

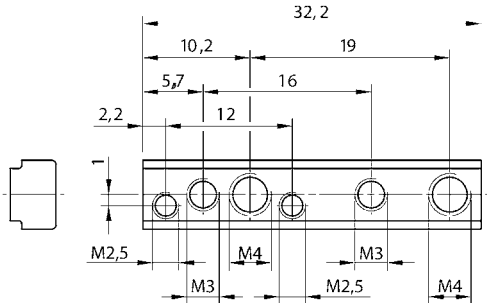
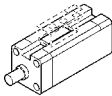
Material: Steel
Surface: galvanized

ISO 21287, Series CCI
Accessories

Mounting kit



00103610



00111998

Part No.	Ø mm	Material	Material Screws	Surface Screws					
1827020275	16-100	Brass	Steel	galvanized					

ISO 21287, Series CCI

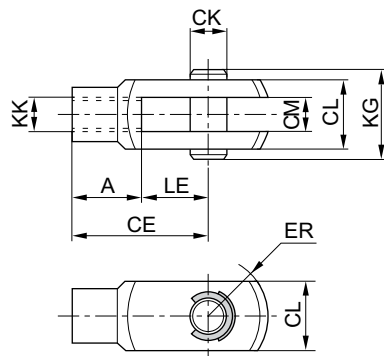
Accessories

Rod clevis with lock washer, Series AP2

▶ Stainless steel



P300_006



24270

Part No.	KK	A	CE	CK e8	CL	CM B12	ER	KG	LE	Material
3330510000	M4	8	16	4	10	5	6	15	8	Stainless steel
3330516000	M6	12	24	6	12	6	7	17	12	Stainless steel
3330520000	M8	16	32	8	16	8	10	22	16	Stainless steel
3590502000	M10x1,25	20	40	10	20	10	12	26	20	Stainless steel
3590504000	M12x1,25	24	48	12	24	12	14	31	24	Stainless steel
3590505000	M16x1,5	32	64	16	32	16	19	39	32	Stainless steel

Part No.	Weight									
	[lbs]									
3330510000	0.022									
3330516000	0.044									
3330520000	0.1102									
3590502000	0.2204									
3590504000	0.3527									
3590505000	0.8818									

Rod clevis, Series AP2

▶ galvanized steel



00105171

Fig. 1

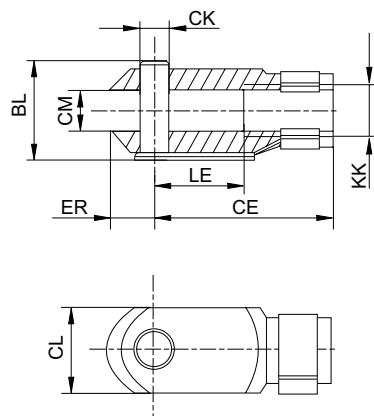
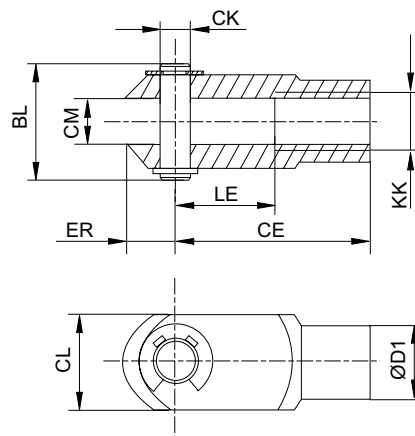


Fig. 2



00126410

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ▶ Standard cylinders
ISO 21287, Series CCI
Accessories

Part No.	KK	BL	CE	ØCK e11	CL	CM	ØD1	ER	LE	Material
1822122009	M6	16	24	6	12	6	10	7	12	Steel
1822122010	M8	21,5	32	8	16	8	14	10	16	Steel
1822122024	M10x1,25	26	40	10	20	10	18	12	20	Steel
1822122025	M12x1,25	31	48	12	24	12	20	14	24	Steel
1822122005	M16x1,5	39	64	16	32	16	26	19	32	Steel

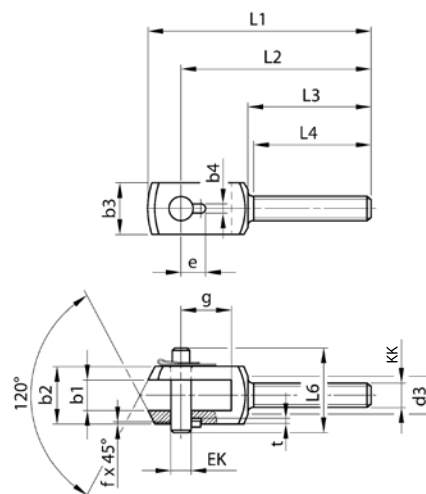
Part No.	Surface	Weight [lbs]	Fig.							
1822122009	galvanized	0.044	Fig. 1							
1822122010	galvanized	0.1102	Fig. 1							
1822122024	galvanized	0.2204	Fig. 1							
1822122025	galvanized	0.3527	Fig. 1							
1822122005	galvanized	0.8818	Fig. 1							

Rod clevis, Series PM6

▶ galvanized steel



00105173



00105197

Scope of delivery incl. bolt

Part No.	KK	b1 B12	b2 d12	b3	b4 +0,2	d3	e +0,3	EK	f	g	L1	L2
1822122032	M10x1,25	14	28	20	3.3	17	11.5	10	0.7	20	90	78
1822122033	M12x1,25	16	30	25	4.3	19	12	12	1	26	108	92
1822122034	M16x1,5	21	40	35	4.3	24	14	16	1	31	129	108
1822122035	M20x1,5	25	50	40	4.3	30	16	20	1	43	156	131

Part No.	L3	L4 +1	L6	t +0,2	Material	Surface					
1822122032	53	50	35	3	Steel	galvanized					
1822122033	58	55	39	3	Steel	galvanized					
1822122034	65	62	50	3	Steel	galvanized					
1822122035	73	69	60	3	Steel	galvanized					

All dimensions in mm, unless specified otherwise.

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

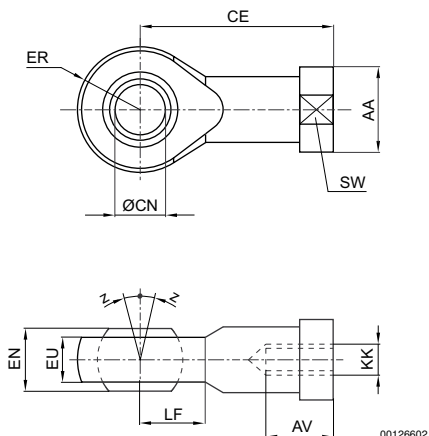
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ISO 21287, Series CCI
Accessories
Ball eye rod end with flange, Series AP6

▶ galvanized steel



00105172



Part No.	KK	AA	AV min.	CE	Ø CN H7	EN -0,1	ER	EU max.	LF	SW	Z [°] max.
1822124001	M6	13	9	30	6	9	10	7.5	10	11	4
1822124002	M8	16	12	36	8	12	12	9.5	12	14	4
1822124003	M10x1,25	19	15	43	10	14	14	11.5	14	17	4
1822124004	M12x1,25	22	18	50	12	16	16	12.5	16	19	4
1822124005	M16x1,5	27	24	64	16	21	21	15.5	21	22	4

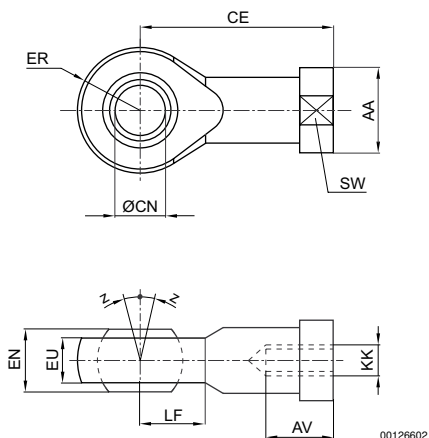
Part No.	Material	Surface	Weight [lbs]								
1822124001	Steel	galvanized	0.0661								
1822124002	Steel	galvanized	0.1102								
1822124003	Steel	galvanized	0.1543								
1822124004	Steel	galvanized	0.2645								
1822124005	Steel	galvanized	0.4629								

Ball eye rod end with flange, Series AP6

▶ Stainless steel



00105172



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

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Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI
Accessories

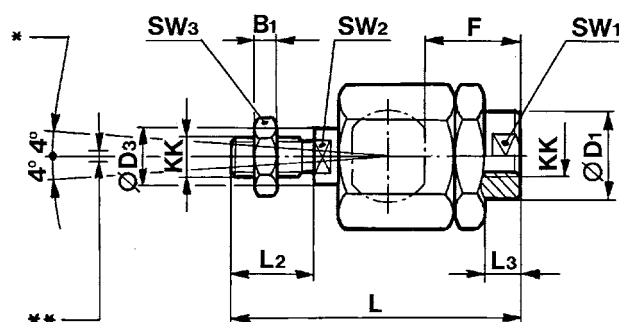
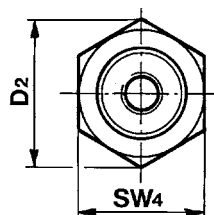
Part No.	KK	AA	AV min.	CE	Ø CN H7	EN -0,1	ER	EU max.	LF	SW	Z [°] max.
8958209032	M10x1,25	19	15	43	10	14	14	10.5	14	17	6.5
8958209042	M12x1,25	22	18	50	12	16	16	12	16	19	6.5
8958209052	M16x1,5	27	24	64	16	21	21	15	21	22	7.5

Part No.	Material	Weight [lbs]									
8958209032	Stainless steel	0.1984									
8958209042	Stainless steel	0.2645									
8958209052	Stainless steel	0.507									

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
1826409000	M6	3.2	8.5	15	6	11.5	39	12	3.5	7	5	10
1826409001	M8	4	12.5	20	8	14.5	55	15	5	10	6	13
1826409002	M10x1,25	6	21.5	34	14	23	73	20	7.5	19	12	17
1826409003	M12x1,25	7	21.5	34	14	28	77	24	13	19	12	19
1826409004	M16x1,5	8	33.5	47	22	32	108	32	9	30	19	24

Part No.	SW4	Material	Surface	Weight [lbs]							
1826409000	13	Steel	galvanized	0.044							
1826409001	17	Steel	galvanized	0.1102							
1826409002	30	Steel	galvanized	0.4629							
1826409003	30	Steel	galvanized	0.4629							
1826409004	41	Steel	galvanized	1.43							

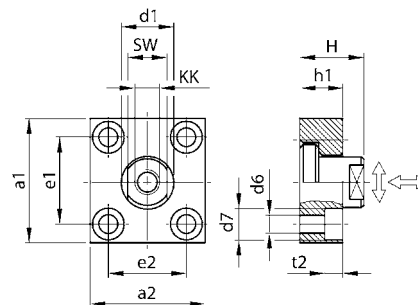
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ISO 21287, Series CCI
Accessories
Flexible plate coupling, Series PM7


00105170



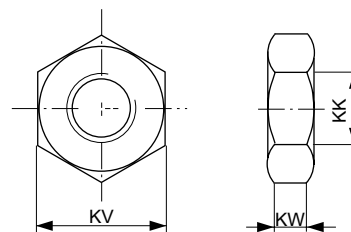
00105194

Part No.	KK	a1	a2	d1	h11	d6	H13	d7	H13	e1	H13	e2	h1	t2	H
1827001629	M10x1,25	60	37	20	6.6	11		36 ±0,15	23 ±0,15	15	7	24			
1827001630	M12x1,25	60	56	25	9	15		42 ±0,2	38 ±0,2	20	9	30			
1827001631	M16x1,5	80	80	30	11	18		58 ±0,2	58 ±0,2	20	11	32			

Part No.	SW	Tightening torque for the coupling pin Ma ± 5%	Axial play	radial play	Material	Surface	Weight		
		[Nm]	min./max.	min./max.			[lbs]		
1827001629	17	12.54	0.02	0.04	Steel	galvanized	0.6613		
1827001630	19	21.39	0.02	0.04	Steel	galvanized	0.8818		
1827001631	24	52.37	0.02	0.04	Steel	galvanized	1.98		

Nut for piston rod, Series MR9


00105168



00105192

Part No.	KK	KV	KW	Material	Surface	Weight	Note			
						[lbs]				
1823300033	M6	10	3.2	Steel	galvanized	0.0088	-			
1823300034	M8	13	4	Steel	galvanized	0.011	-			
1823300020	M10x1,25	17	6	Steel	galvanized	0.022	-			
8103190344	M12x1,25	19	6	Steel	galvanized	0.0264	-			
1823300030	M16x1,5	24	8	Steel	galvanized	0.0374	-			
3330316000	M6	10	3.2	Stainless steel	-	0.0088	-			
3330320000	M8	13	4	Stainless steel	-	0.0132	-			

1) 3590305000 can also be used as an MR3, nut for cylinder mounting.

All dimensions in mm, unless specified otherwise.

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

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Piston rod cylinders ► Standard cylinders

ISO 21287, Series CCI
Accessories

Part No.	KK	KV	KW	Material	Surface	Weight [lbs]	Note			
3590302000	M10x1,25	16	5	Stainless steel	-	0.022	-			
3590304000	M12x1,25	18	6	Stainless steel	-	0.044	-			
3590305000	M16x1,5	24	8	Stainless steel	-	0.0661	1)			

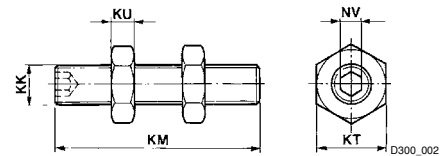
1) 3590305000 can also be used as an MR3, nut for cylinder mounting.

Male threaded rods

► for Series KHZ and SSI with internal thread



P300_001



Part No.	KK	For series	KM	KT	KU	NV	Material	Weight [lbs]		
2701432000	M6	KHZ and SSI with internal thread	30	10	3.2	3	Stainless steel	0.044		
2701450000	M8	KHZ and SSI with internal thread	35	13	4	4	Stainless steel	0.0661		
2701463000	M10	KHZ and SSI with internal thread	40	16	5	5	Stainless steel	0.1102		

All dimensions in mm, unless specified otherwise.

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

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ISO 21287, Series CCI
Accessories
Sensor, Series ST6

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



24712

Certificates

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

LED status display
 Vibration resistance
 Shock resistance

Materials:

Housing
 Cable sheath
 Locking screw

CE declaration of conformity

cULus
 RoHS
 -22°F / +176°F
 IP65, IP67, IP69K
 ±0,1
 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

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 _{max}	DC switching current, max.	AC switching current, max.	Part No.
		[ft.]		[V AC]		[A]	[A]	
	Reed	9.84	10 / 230	10 / 230	I [*] Rs	0.13	0.13	R412022866
	Reed	9.84 16.4 32.81	10 / 30	10 / 30	I [*] Rs	0.3	0.5	R412022869 R412022870 R412022871
	electronic PNP	9.84 16.4 32.81	10 / 30	-	≤ 2,5 V	0.13	-	R412022853 R412022855 R412022857
	electronic NPN	9.84 16.4	10 / 30	-	≤ 2,5 V	0.13	-	R412022849 R412022850

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

1) interfaces: open cable ends; 2-pin

2) interfaces: open cable ends; 3-pin

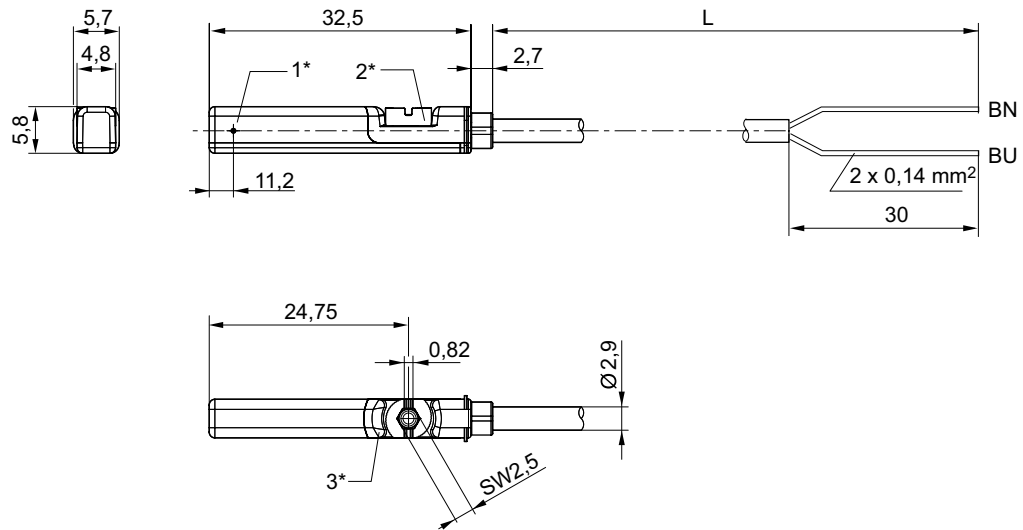
3) Protected against polarity reversal

4) short circuit resistant / Protected against polarity reversal

Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

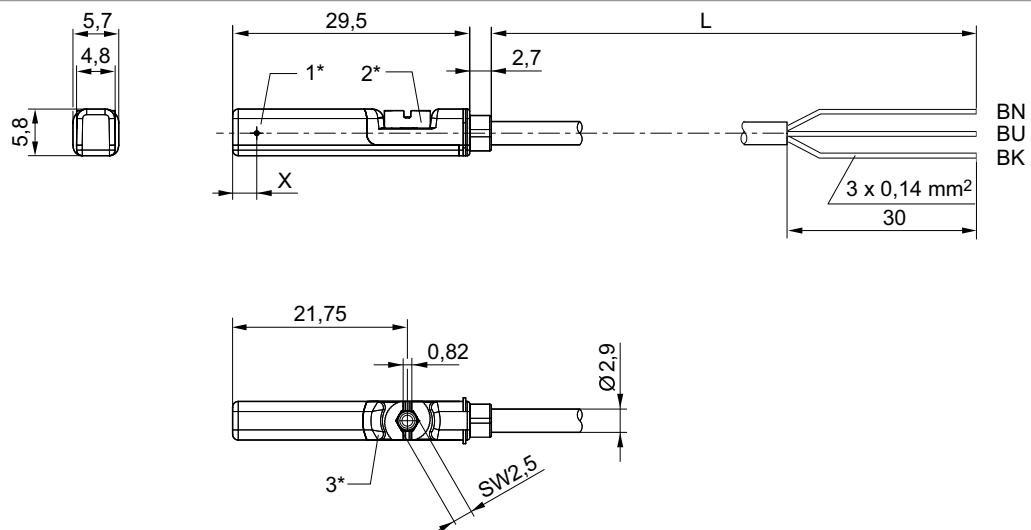
Fig. 1



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

ISO 21287, Series CCI
Accessories
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

CE declaration of conformity

cULus
 RoHS
 -22°F / +176°F
 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
 Locking screw

Polyamide
 Stainless steel

Type of contact	Cable sheath	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency	Part No.
		[ft.]	[V AC]		[A]	[A]		
Reed	Polyurethane	0.9842	10 / 30	I ² Rs	0.3	0.5	< 0,4	R412022873
	Polyvinyl chloride	0.9842						R412022875
	Polyurethane	1.64						R412022874
electronic PNP	Polyurethane	0.9842	-	≤ 2,5 V	0.13	-	< 1,0	R412022859
	Polyvinyl chloride	0.9842						R412022862
	Polyurethane	1.64						R412022861
electronic NPN	Polyurethane	0.9842	-	≤ 2,5 V	0.13	-	< 1,0	R412022852

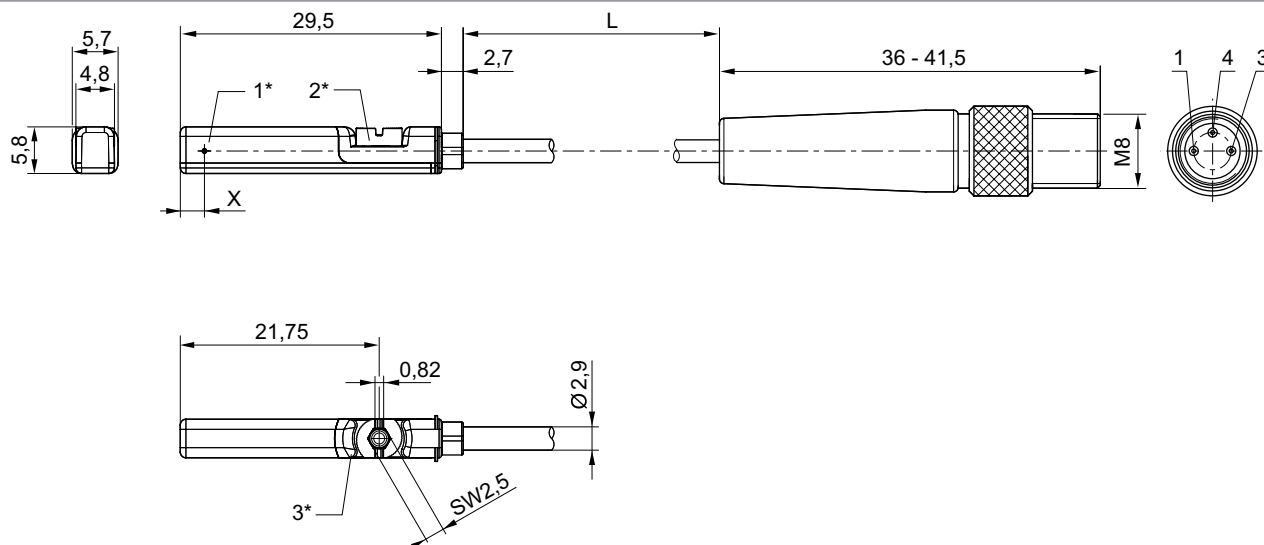
Part No.	Operating current, not switched	Operating current, switched	Note
R412022873 R412022875 R412022874	-	-	1); 3) 2); 3) 1); 3)
R412022859 R412022862 R412022861	< 8 mA	< 30 mA	1); 4) 2); 4) 1); 4)
R412022852	< 8 mA	< 30 mA	1); 4)

- 1) Material Cable sheath: Polyurethane
 2) Material Cable sheath: Polyvinyl chloride
 3) Protected against polarity reversal
 4) short circuit resistant / Protected against polarity reversal
 interfaces: Plug; M8; 3-pin; with knurled screw

Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

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

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
-22°F / +176°F
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 _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency	Part No.
		[ft.]	[V AC]		[A]	[A]		
	Reed	0.9842	10 / 30	I*Rs	0.13	0.13	< 0,4	R412022868

All dimensions in mm, unless specified otherwise.

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

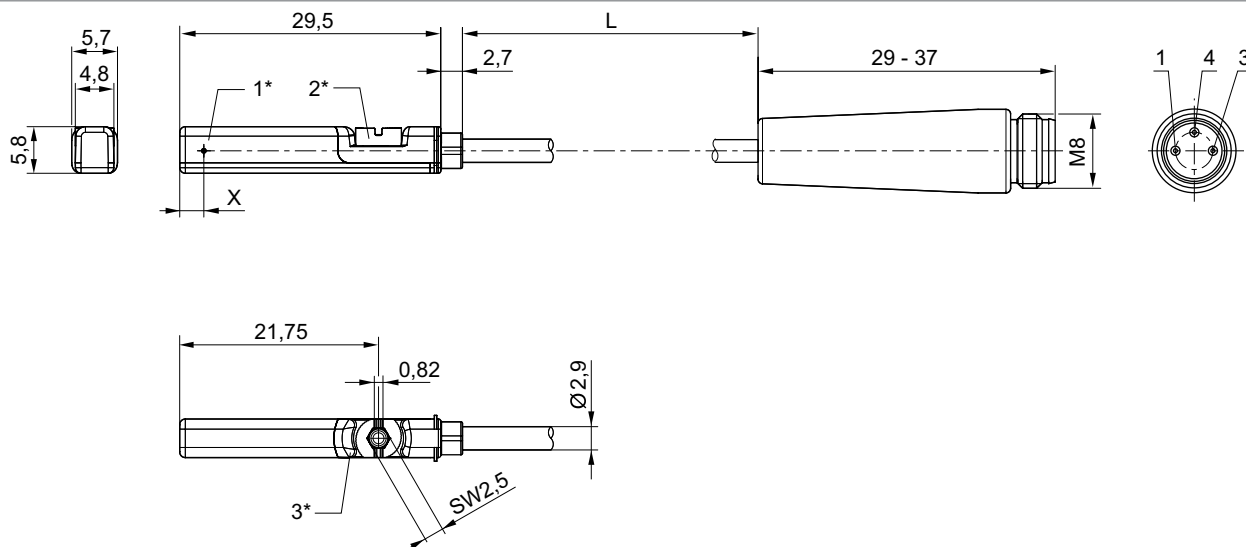
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ISO 21287, Series CCI
Accessories

	Type of contact	Cable length	Operational voltage AC min./max.	Voltage drop U at I _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency	Part No.
		[ft.]	[V AC]		[A]	[A]		
	Reed	0.9842	10 / 30	I [*] Rs	0.3	0.5	< 0,4	R412022872
-	electronic PNP	0.9842	-	≤ 2,5 V	0.13	-	< 1,0	R412022858
-	electronic NPN							R412022851

Part No.	Operating current, not switched	Operating current, switched	Note
R412022868	-	-	1)
R412022872	-	-	1)
R412022858 R412022851	< 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 21287, Series CCI 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
-22°F / +176°F
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 _{max}	DC switching current, max.	AC switching current, max.	Max. switching frequency	Part No.
	[ft.]	[V AC]		[A]	[A]		
Reed	0.9842	10 / 30	I ² Rs	0.3	0.5	< 0,4	R412022876
electronic PNP	0.328	-	≤ 2,5 V	0.13	-	< 1,0	R412022879
	0.9842						R412022863
	9.84						R412022877
	16.4						R412022878

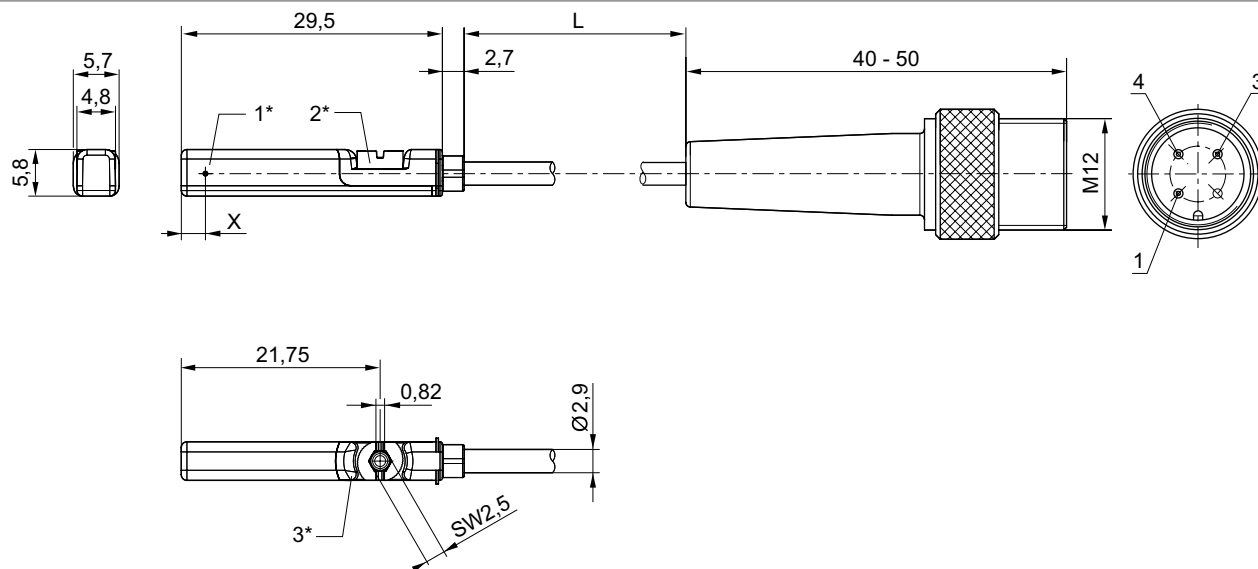
Part No.	Operating current, not switched	Operating current, switched	Note
R412022876	-	-	1)
R412022879 R412022863 R412022877 R412022878	< 8 mA	< 30 mA	2)

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

ISO 21287, Series CCI

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

Sensors, Series SM6

► 6 mm groove ► with cable ► without wire end ferrule, tin-plated, 4-pin ► with distance measuring sensor, measurement range 32 - 256 mm



00133722

Certificates	cULus
Ambient temperature min./max.	-4 °F / +158 °F
Protection class	IP67
Output signal	0 - 10 V DC, 4 - 20 mA
Quiescent current (without load)	< 25 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 ms
Resolution max. measuring range	0,05 mm
Repetitive precision max. measuring range	0.1 mm
Linearity deviation	0,3 mm
Sampling speed	3 m/s
Pulse stretching	
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable sheath	Polyurethane

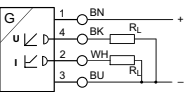
All dimensions in mm, unless specified otherwise.

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

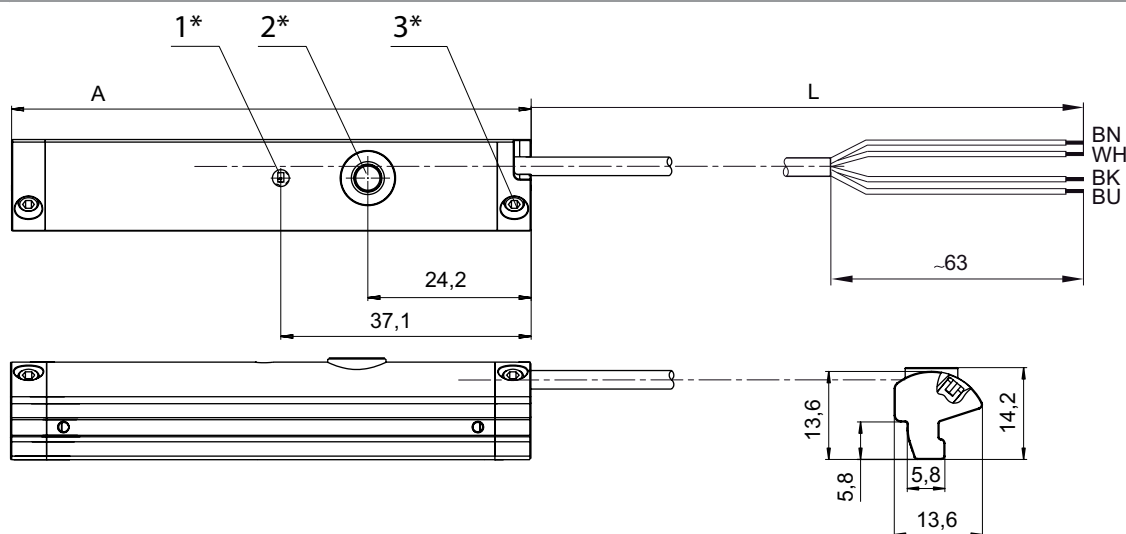
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Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

	Type of contact	Cable length	Measurement range Max.	Overall length Sensor A	Part No.
		[ft.]	[inch]	[inch]	
	Analog	6.56	1.25	1.77	R412010141
			2.51	3.03	R412010143
			3.77	4.29	R412010262
			5.03	5.55	R412010264
			6.29	6.81	R412010411
			7.55	8.07	R412010413
			8.81	9.33	R412010415
			10.07	10.59	R412010417
interfaces: without wire end ferrule, tin-plated; 4-pin short circuit resistant / Protected against polarity reversal / Overload protection					

Dimensions



00133787

1* = LED 2* = teach button 3* = threaded pin M3x11

L = cable length

(1) BN=brown

(2) WH=white

(3) BU=blue

(4) BK=black

A = sensor length

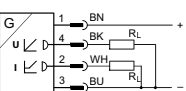
ISO 21287, Series CCI
Accessories
Sensors, Series SM6

► 6 mm groove ► with cable ► Plug, M8x1, 4-pin, with knurled screw ► with distance measuring sensor, measurement range 32 - 256 mm



00134312

Certificates	cULus
Ambient temperature min./max.	-4 °F / +158 °F
Protection class	IP67
Output signal	0 - 10 V DC, 4 - 20 mA
Quiescent current (without load)	< 25 mA
Current signal	4 - 20 mA
DC operating voltage min./max.	15 V DC - 30 V DC
sampling interval	1 ms
Resolution max. measuring range	0,05 mm
Repetitive precision max. measuring range	0.1 mm
Linearity deviation	0,3 mm
Sampling speed	3 m/s
Pulse stretching	
Display	LED
LED status display	Yellow
Vibration resistance	10 - 55 Hz, 1 mm
Shock resistance	30 g / 11 ms
Materials:	
Housing	Polyamide, fiber-glass reinforced
Cable sheath	Polyurethane

	Type of contact	Cable length	Measurement range Max.	Overall length Sensor A	Part No.
		[ft.]	[inch]	[inch]	
	Analog	0.9842	1.25	1.77	R412010142
			2.51	3.03	R412010144
			3.77	4.29	R412010263
			5.03	5.55	R412010265
			6.29	6.81	R412010410
			7.55	8.07	R412010412
			8.81	9.33	R412010414
			10.07	10.59	R412010416
interfaces: Plug; M8x1; 4-pin; with knurled screw short circuit resistant / Protected against polarity reversal / Overload protection					

1* = LED 2* = teach button 3* = threaded pin M3x11
L = cable length
Pin assignment: 1 = (+), 2 = (OUT 1) 3 = (GND), 4 = (OUT 2), EN 60947-5-7
A = sensor length

00133788

► Plug, M12, 3-pin ► welding-proof



00118461

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

-13°F / +158°F
IP67, IP65
±0,1
≤ 10 mA
≤ 5 mA
10
Yellow
55 Hz, 1 mm
30 g / 11 ms

Materials:
Housing

Polyamide

	Type of contact	Voltage drop U at I _{max}	DC switching current, max.	Max. switching frequency	Part No.
			[A]		
	electronic PNP	≤ 1,8 V	0.2	0,02	0830100438

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

All dimensions in mm, unless specified otherwise.

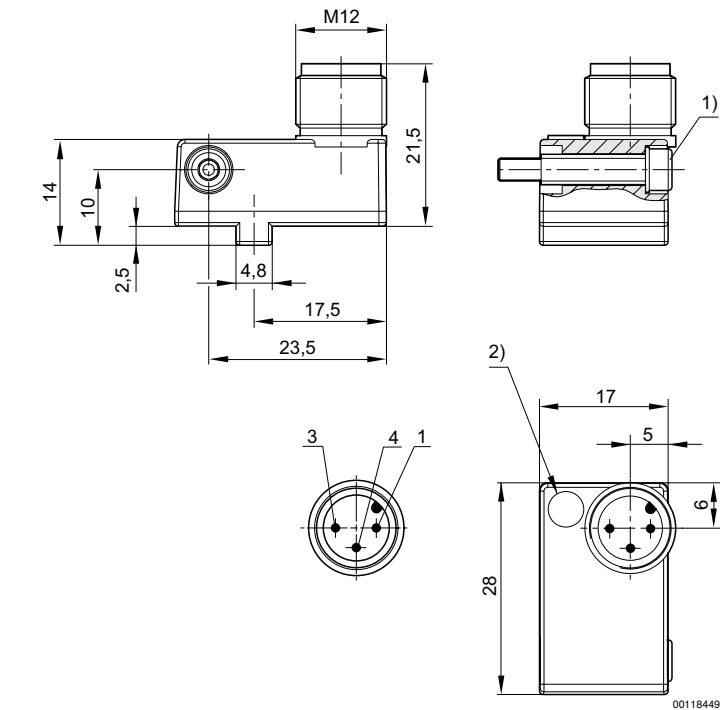
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ISO 21287, Series CCI

Accessories

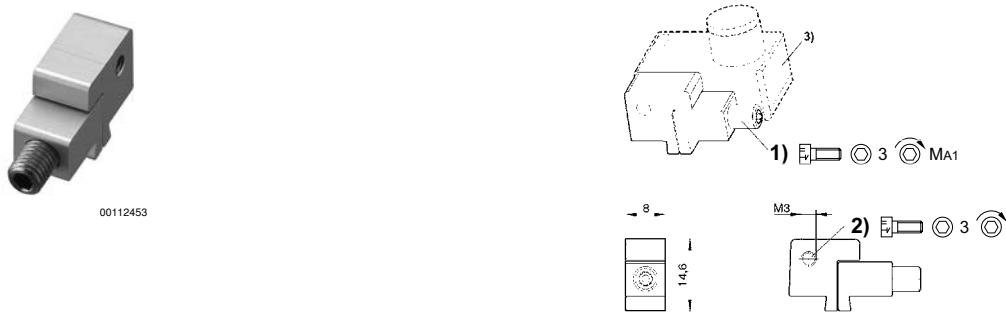
Dimensions



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

Sensor mounting, Series CB1

▶ for Series SN3 ▶ to mount on cylinder PRA, KPZ, GPC, CCI, KHZ



1) Clamping screw 2) Mounting screw for sensor 3) Sensor

Part No.	For series	1)	MA1 [Nm]	Material	Weight [lbs]			
1827020386	SN3	M3x25	1,8 +0,4	Aluminum	0.0154			

Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

Connecting cable, Series CN2

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



00107009_b

Ambient temperature min./max.
Protection class

-40 °F / +185 °F
IP65

Materials:
Cable sheath

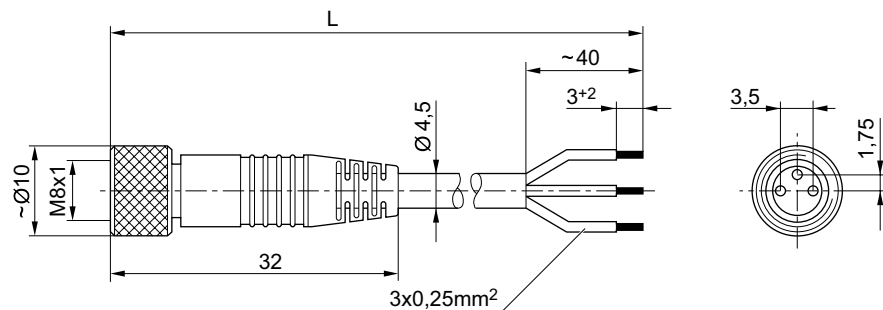
Polyurethane

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]		[mm²]	[inch]	[ft.]	[lbs]	
4	3	0.24	0.18	9.84	0.2006	1834484166
				16.4	0.3196	1834484168
				32.81	0.7275	1834484247

Dimensions



00105612_a

L = length

All dimensions in mm, unless specified otherwise.

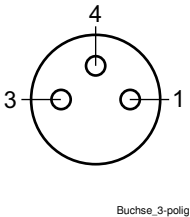
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ISO 21287, Series CCI

Accessories

Pin assignment



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

Connecting cable, Series CN2

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



Ambient temperature min./max.

Protection class

Materials:

Cable sheath

-40°F / +185°F

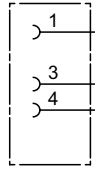
IP65

Polyurethane

00107009_c

Technical Remarks

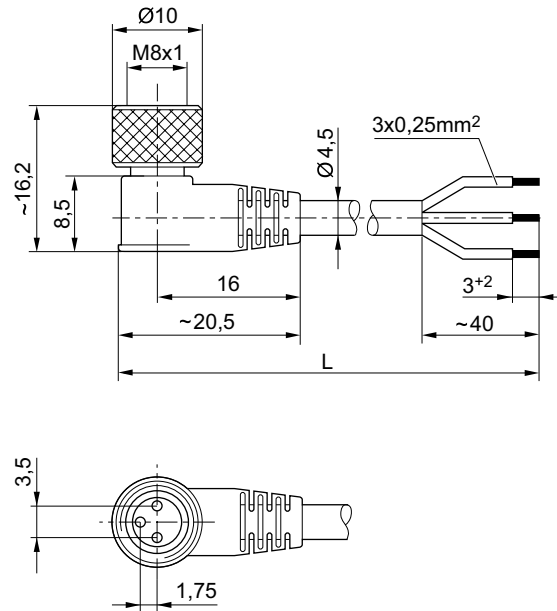
■ The specified protection class is only valid in assembled and tested state.

	Max. current	Number of wires	Wire cross-section	Cable-Ø	Cable length L	Weight	Part No.
	[A]		[mm²]	[inch]	[ft.]	[lbs]	
	4	3	0.24	0.18	9.84	0.2028	1834484167
					16.4	0.3108	1834484169
					32.81	0.6084	1834484248

Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

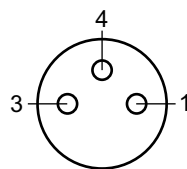
Dimensions



00105612_b

L = length

Pin assignment



Buchse_3-polig

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

Socket, M8x1, Series CN2

▶ Socket, M8x1, 3-pin



Ambient temperature min./max.
Protection class

-13°F / +176°F
IP67

Materials:
Housing

Polyamide

00138877

All dimensions in mm, unless specified otherwise.

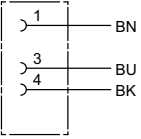
Part numbers marked in bold are available from the central warehouse in Germany, see the shopping basket for more detailed information

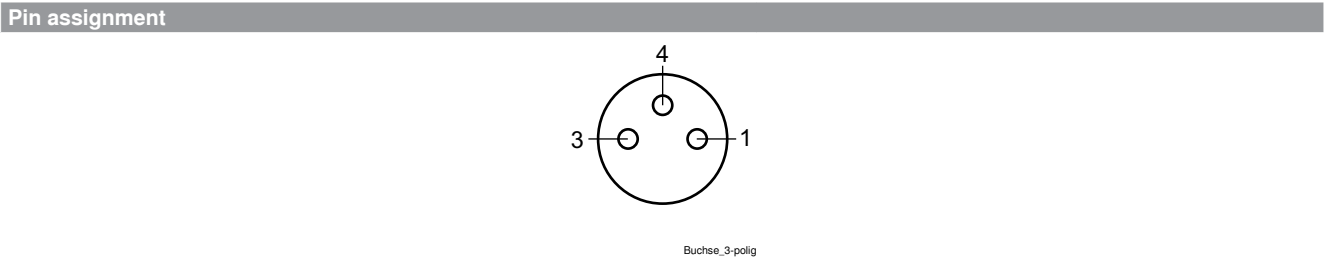
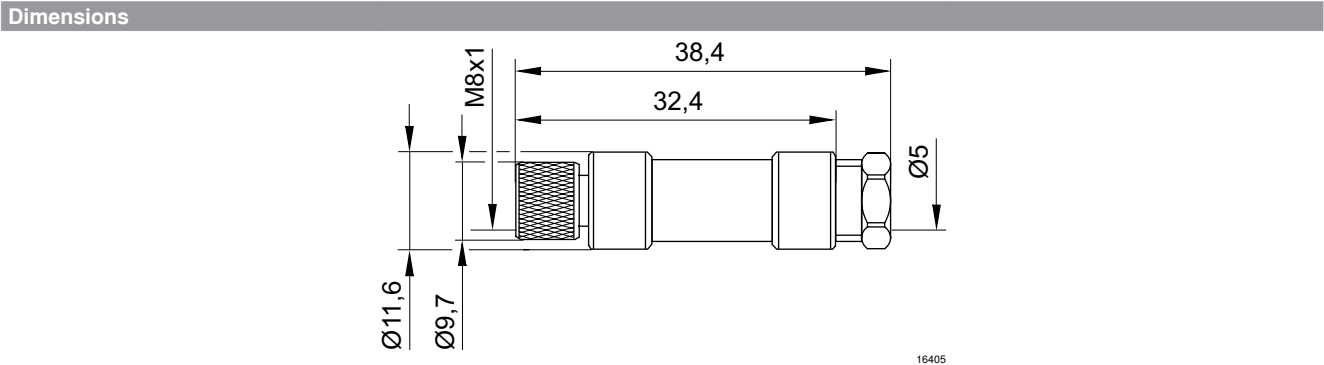
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ISO 21287, Series CCI

Accessories

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	DC						
	[V]	[V]	[A]		[inch]			
	48	48	4	straight	0.14 / 0.19	1 position	Black	1834484173
Part No.		Weight						
		[lbs]						
1834484173		0.02						



Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI Accessories

Socket, M8x1, Series CN2

▶ Socket, M8x1, 3-pin, angled



16406

Ambient temperature min./max.

-13°F / +185°F

Protection class

IP65

Materials:

Housing

Polyamide

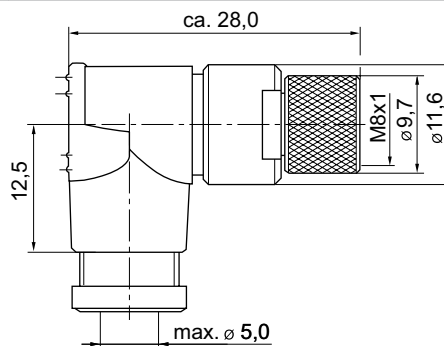
Technical Remarks

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

	Operational voltage		Max. current	Contact assign- ment	Cable exit	suitable cable-Ø min./max	Part No.
	AC	DC					
	[V]	[V]	[A]			[inch]	
	48	48	4	3	angled 90°	0.14 / 0.19	1834484174

Part No.	number of plug options 1	Housing color	Weight
			[lbs]
1834484174	1 position	Black	0.02

Dimensions

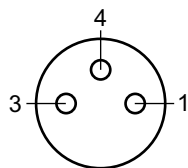


15832

All dimensions in mm, unless specified otherwise.

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ISO 21287, Series CCI
Accessories**Pin assignment**

Buchse_3-polig

Piston rod cylinders ▶ Standard cylinders

ISO 21287, Series CCI
Accessories

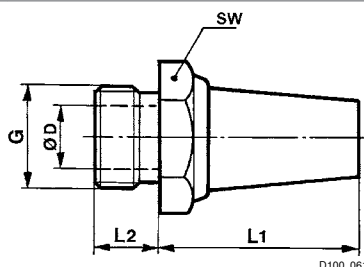
Silencers, Series SI1
▶ Sintered bronze


P100_060

Working pressure min./max.	0 psi / 145 psi
Ambient temperature min./max.	-13°F / +176°F
Medium	Compressed air
Materials:	
Silencers	Sintered bronze
Thread	Brass

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[Cv]	[piece]	[lbs]	
M5	72	0.46	10	0.0088	1827000006
G 1/8	75	1.5	10	0.022	1827000000

Dimensions



D100_061

Part No.	Port G	SW	Ø D	L1	L2						
1827000006	M5	7	2.5	15	5						
1827000000	G 1/8	13	6	18	6						

Sound pressure level measured at 87 psi at 3.28 ft. distance

Silencers, Series SI1
▶ Sintered bronze


P100_037

Working pressure min./max.	0 psi / 145 psi
Ambient temperature min./max.	-13°F / +176°F
Medium	Compressed air
Materials:	
Silencers	Sintered bronze
Thread	Brass

All dimensions in mm, unless specified otherwise.

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

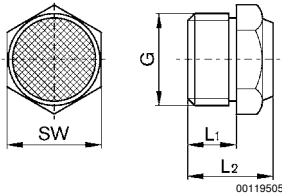
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ISO 21287, Series CCI

Accessories

Compressed air connection	Sound pressure level	Qn	Order quantity	Weight	Part No.
	[dB]	[Cv]	[piece]	[lbs]	
M5	79	0.28	10	0.011	1827000032
G 1/8	85	0.64	10	0.0022	1827000031

Dimensions



Part No.	Port G	L1	L2	SW								
1827000032	M5	5	10.3	7								
1827000031	G 1/8	6	11.5	13								

Sound pressure level measured at 87 psi at 3.28 ft. distance

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01-11-2016

An example configuration is depicted on the title page. The delivered product may thus vary from that in the illustration. Subject to change. © AVENTICS Corporation
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