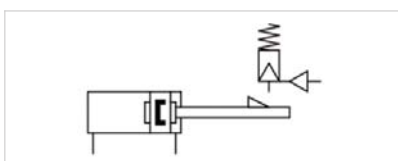


Series CCI with integrated holding unit

- Ø 20-100 mm
- double-acting
- with magnetic piston
- Cushioning elastic
- with integrated holding unit
- Piston rod Internal thread



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 8 bar
Ambient temperature min./max.	-10 ... 60 °C
Medium temperature min./max.	-10 ... 60 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø	20 mm	25 mm	32 mm	40 mm	50 mm
Retracting piston force	148 N	260 N	435 N	665 N	1039 N
Extracting piston force	198 N	309 N	507 N	792 N	1237 N
Impact energy	0,2 J	0,3 J	0,5 J	0,7 J	1 J
Weight 0 mm stroke	0,27 kg	0,29 kg	0,56 kg	0,88 kg	1,25 kg
Weight +10 mm stroke	0,02 kg	0,03 kg	0,04 kg	0,06 kg	0,08 kg
Stroke max.	300 mm	300 mm	300 mm	300 mm	300 mm
Axial play	0,3 mm	0,3 mm	0,3 mm	0,3 mm	0,35 mm
Min. holding force at 0 bar	400 N	400 N	650 N	1100 N	1600 N
Sealing material	Nitrile butadiene rubber	Nitrile butadiene rubber	Polyurethane	Polyurethane	Polyurethane

Piston Ø	63 mm	80 mm	100 mm
Retracting piston force	1766 N	2857 N	4639 N
Extracting piston force	1964 N	3167 N	4948 N
Impact energy	1,3 J	1,8 J	2,5 J
Weight 0 mm stroke	1,6 kg	3 kg	5 kg
Weight +10 mm stroke	0,09 kg	0,12 kg	0,15 kg
Stroke max.	300 mm	500 mm	500 mm
Axial play	0,35 mm	0,35 mm	0,35 mm

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Piston Ø	63 mm	80 mm	100 mm
Min. holding force at 0 bar	2500 N	4000 N	6300 N
Sealing material	Polyurethane	Polyurethane	Polyurethane

Technical information

The pressure dew point must be at least 15 °C under ambient and medium temperature and may not exceed 3 °C .

The oil content of compressed air must remain constant during the life cycle.

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

Warning: The holding unit may not be used for the following applications: 1) for dynamic holding 2) in or as safety equipment
Holding unit may only be unlocked when turned off.

Make sure that the load direction does not change during a holding interval. A change in the direction of force, as well as external forces such as impacts, strong vibrations, or torsional forces, will briefly release the piston rod and may destroy the HU1 holding unit. When clamped, there must be no residual pressure on the holding unit (0 bar).

NOTE: The minimum control pressure is $\geq$ working pressure!

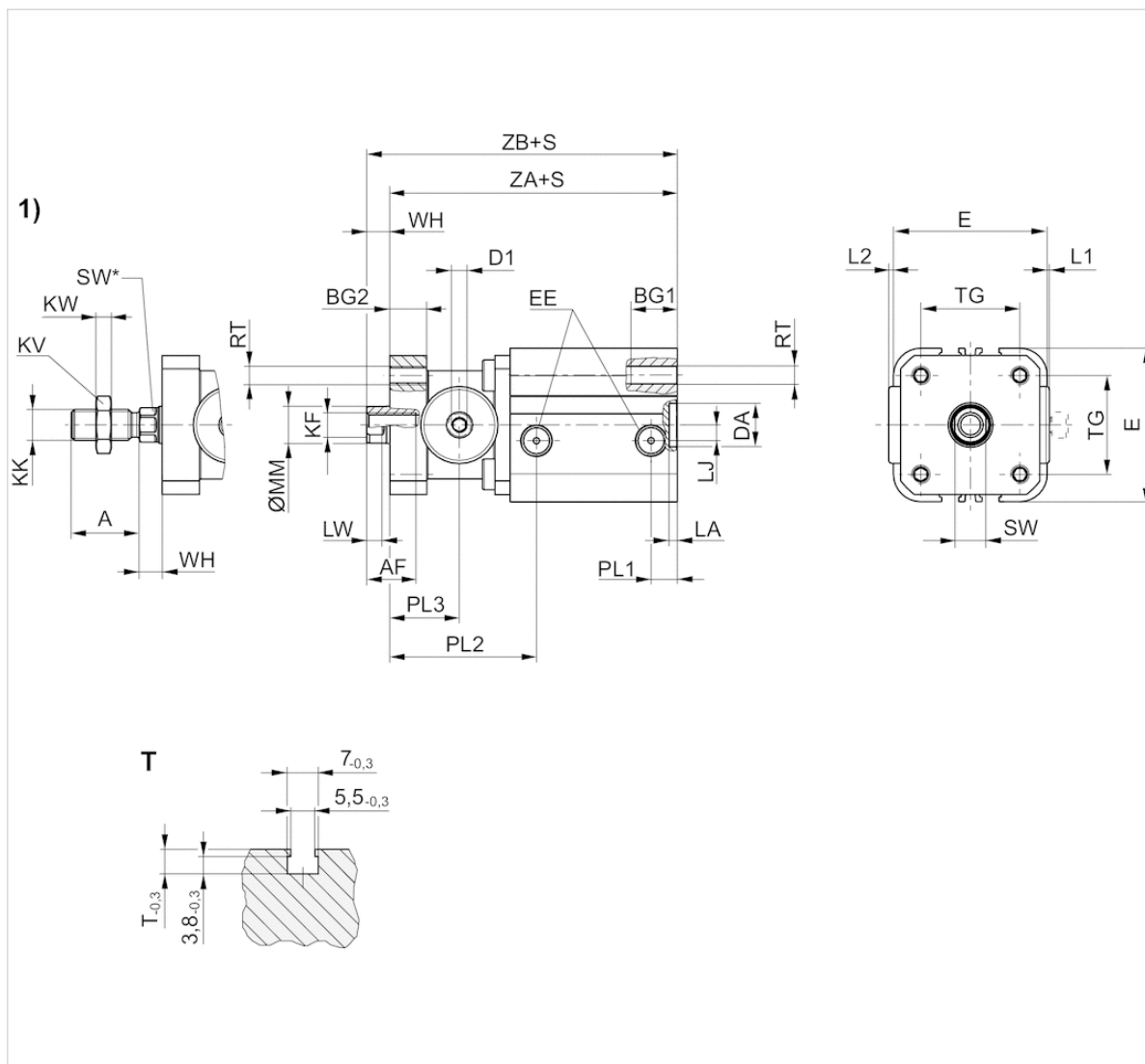
Use our Internet configurator to order variants with an external thread.

Technical information

Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum
End cover	Aluminum
Seal	Nitrile butadiene rubber, Polyurethane
Scraper	Polyurethane

Dimensions

Dimensions



S = stroke

T = View for sensor groove

1) External thread

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

Dimensions

Ø	20	25	32	40	50	63	80	100
A	16	16	19	19	22	22	28	28
AF 1)	12	12	12	16	20	20	26	26
BG1 1)	12	12	18	18	22	22	27	24
BG2	15	10	12	20	25	18	20	20

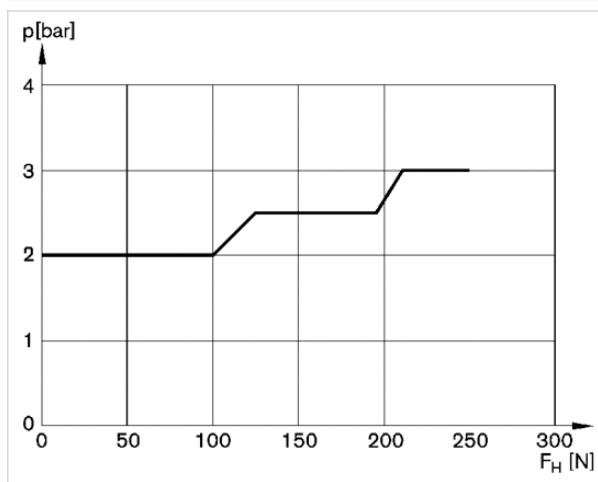
PDF creation date: 23.07.2018

Ø	20	25	32	40	50	63	80	100
Ø D1	M5	M5	M5	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8
DAH11	12	12	14	14	18	18	23	28
E	36	40	50	58	68	80	96	116
EE	M5	M5	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8	G 1/8
KF	M6	M6	M8	M8	M10	M10	M12	M12
KK	M8x1,25	M8x1,25	M10x1,25	M10x1,25	M12x1,25	M12x1,25	M16x1,5	M16x1,5
KV	13	13	16	16	18	18	24	24
KW	4	4	5	5	6	6	8	8
L1	3	1	0.5	1	2	—	—	—
L2	1	—	—	—	—	—	—	—
LA	2.5	2.5	2.5	2.5	2.5	2.5	3	3
LJ	4.5	5	5	10	12	15	22	27
LW	3.5	3.5	5	6	7	7	7.5	7.5
MM	10	10	12	16	20	20	25	25
PL1	5.5	5.5	8.5	8.5	8.5	8.5	8.3	9.7
PL2	43	39	47.5	63.5	72	62.5	77	91
PL3	21	20.5	22.5	34.5	38.5	33	40	45.5
RT	M5	M5	M6	M6	M8	M8	M10	M10
SW	8	8	10	13	16	16	21	21
SW*	—	—	10	13	16	16	21	21
TG	22 ±0,4	26 ±0,4	32.5 ±0,5	38 ±0,5	46.5 ±0,6	56.5 ±0,7	72 ±0,7	89 ±0,7
WH	5.5	5.5	7	9.5	10	10	12	12
ZA+S	65 ±0,5	66,5 ±0,5	83 ±0,5	95 ±0,5	104,5 ±0,5	97,5 ±0,5	122,5 ±0,5	143,5 ±0,5
ZB+S	70,5 ±1,4	72 ±1,4	90 ±1,6	104,5 ±1,6	114,5 ±1,6	107,5 ±2	134,5 ±2	155,5 ±2

1) Min.

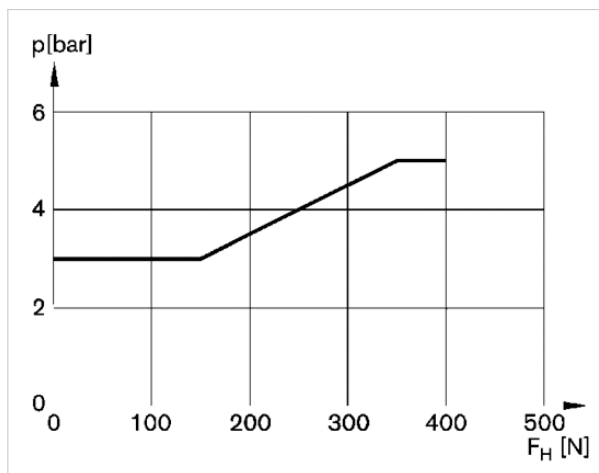
Diagrams

Holding force for piston Ø 20



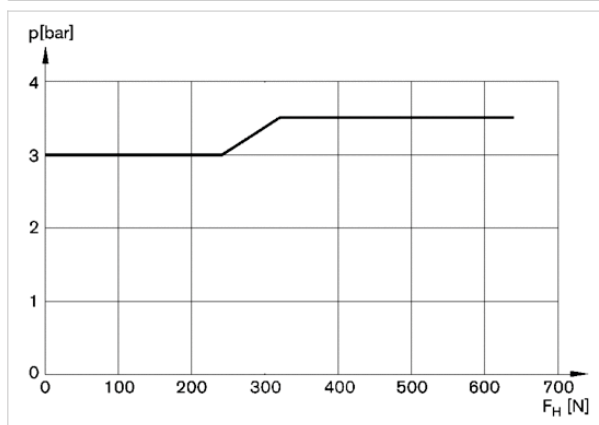
p = release pressure for holding unit
FH = holding force of cylinder

Holding force for piston Ø 25



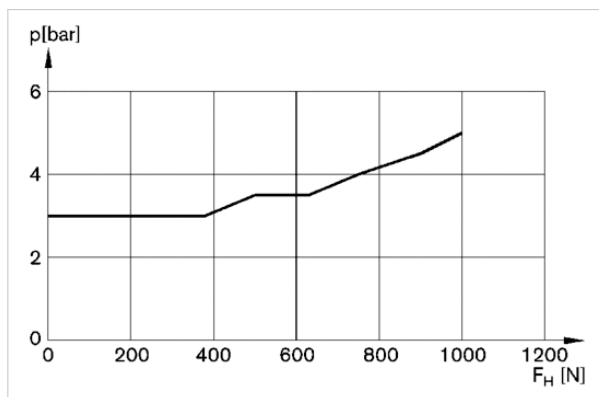
p = release pressure for holding unit
F_H = holding force of cylinder

Holding force for piston Ø 32



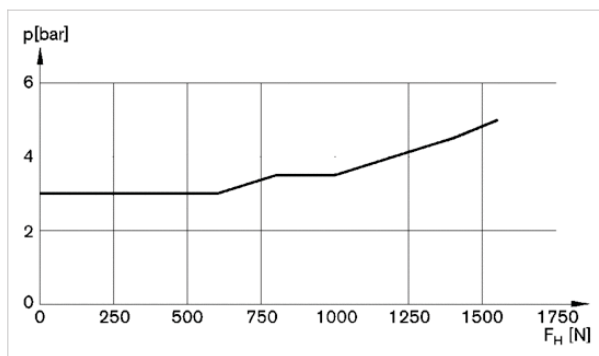
p = release pressure for holding unit
F_H = holding force of cylinder

Holding force for piston Ø 40

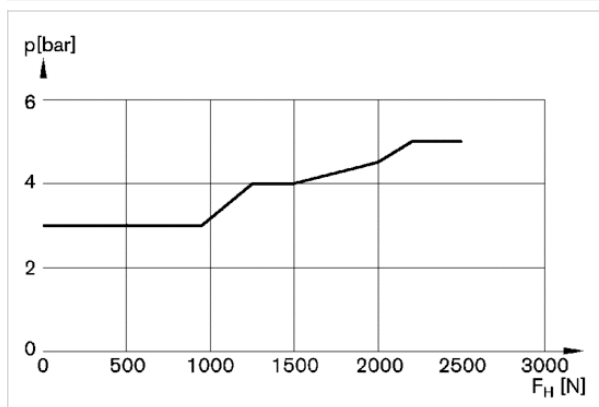


p = release pressure for holding unit
F_H = holding force of cylinder

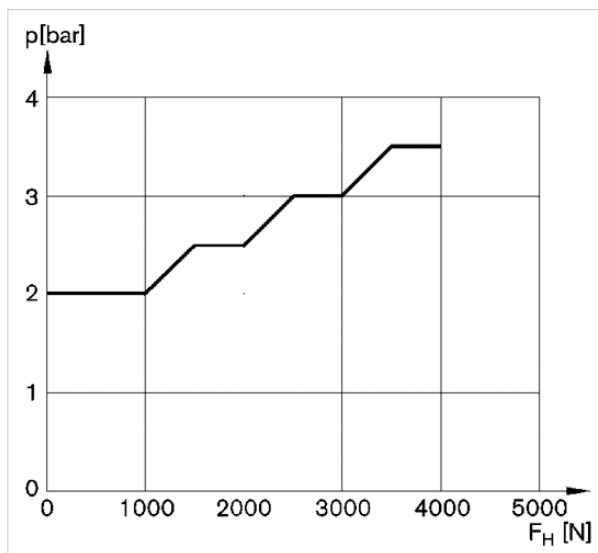
Holding force for piston Ø 50



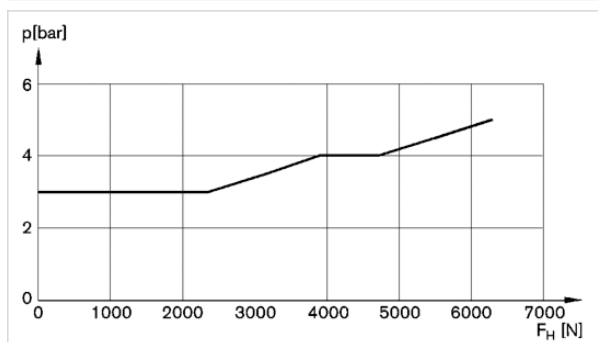
Holding force for piston Ø 63



Holding force for piston Ø 80

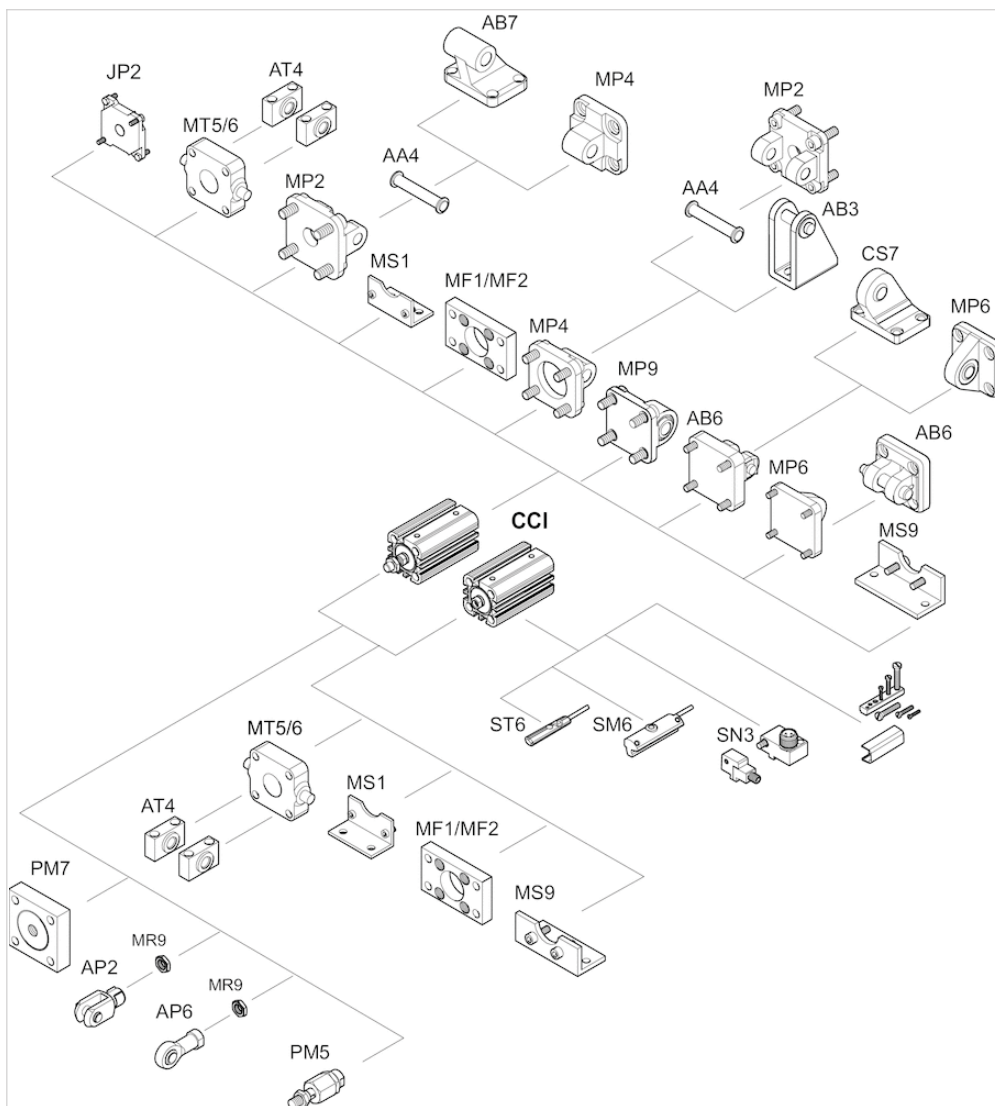


Holding force for piston Ø 100



Accessories overview

Overview drawing



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