

Compact cylinder ISO 21287, Series CCI- tandem cylinder

- Ø 25-100 mm



Compressed air connection	Internal thread
Working pressure min./max.	2 ... 10 bar
Ambient temperature min./max.	-20 ... 80 °C
Medium temperature min./max.	-20 ... 80 °C
Medium	Compressed air
Max. particle size	50 µm
Oil content of compressed air	0 ... 5 mg/m³
Pressure for determining piston forces	6.3 bar

Technical data

Piston Ø	25 mm	40 mm	63 mm	100 mm
Retracting piston force	260 N	665 N	1766 N	4639 N
Piston force Tandem, 2x	619 N	1583 N	3928 N	9896 N
extracting Tandem, 3x	928 N	2375 N	5892 N	14844 N
theoretical Tandem, 4x	1237 N	3167 N	7855 N	19792 N
Impact energy	0,3 J	0,7 J	1,3 J	2,5 J
Weight 0 mm stroke Tandem, 2x	0,29 kg	0,65 kg	1,58 kg	4,13 kg
Tandem, 3x	0,37 kg	0,92 kg	2,11 kg	5,67 kg
Tandem, 4x	0,45 kg	1,15 kg	2,64 kg	7,19 kg
Weight +10 mm stroke Tandem, 2x	0,06 kg	0,125 kg	0,2 kg	0,34 kg
Tandem, 3x	0,09 kg	0,185 kg	0,29 kg	0,51 kg
Tandem, 4x	0,12 kg	0,24 kg	0,385 kg	0,68 kg
Stroke max.	200 mm	200 mm	200 mm	200 mm

Technical information

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

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

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

This product can be configured with 2x, 3x, or 4x extending piston force.

Technical information

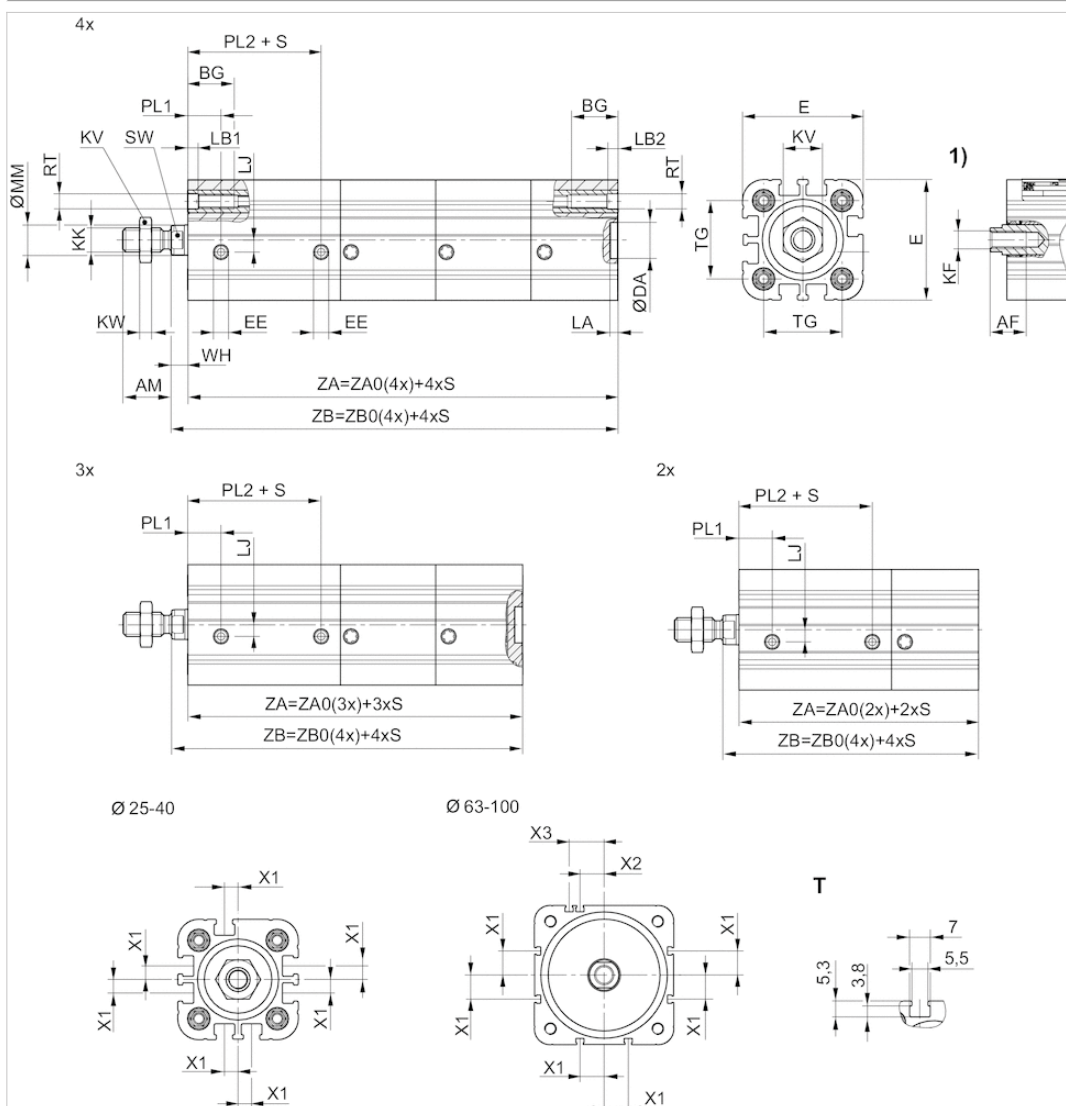
Material	
Cylinder tube	Aluminum, anodized
Piston rod	Stainless steel
Front cover	Aluminum

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Material	
End cover	Aluminum
Seal	Polyurethane
Scraper	Polyurethane
Tie rod nuts	Steel, galvanized

Dimensions

Dimensions



S = stroke

T = View for sensor groove

1) Internal thread

Dimensions

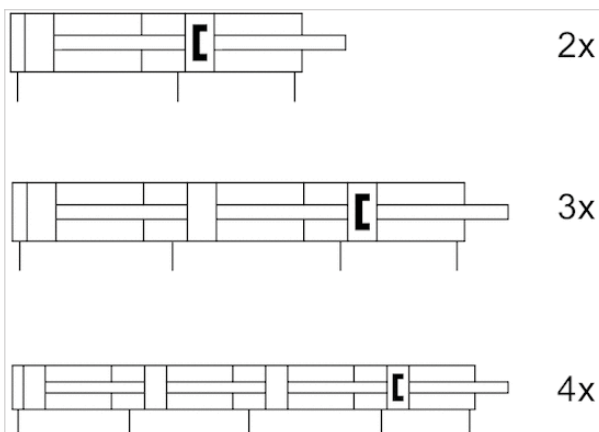
Ø	25	40	63	100
AM / 1)	16 / 32	22 / 44	28 / 56	40 / 80
BG 2)	15.5	17	18	20
DA H11	12	14	18	28
E	40.3	58	80	116
EE	M5	G 1/8	G 1/8	G 1/8
KF x AF	M6x12	M10x16	M12x20	M16x24
KK	M8	M12x1,25	M16x1,5	M20x1,5
KV	13	18	24	30
KW	4	6	8	10
LA	2.5	2.5	2.5	3
LB1	3.5	4	5.5	–
LB2	3.5	4	5.5	5.5
LJ	4	9	15	27
MM	10	16	20	25
PL 1	10	12	12	16.5
PL 2	34	36.5	45	58.5
RT	M5	M6	M8	M10
SW h13	8	13	16	21
TG	26 ±0,4	38 ±0,5	56,5 ±0,7	89 ±0,7
WH	5,6 ±1,4	8,4 ±1,6	9,8 ±1,6	10 ±2
X1	4.5	11	18	20
X2	–	–	12	20
X3	–	–	21	29
ZA02x ±0,5	59.5	65.5	84	110
ZA03x ±0,8	81	89	115.5	147.5
ZA04x ±1,0	102.5	112.5	147	185
ZB02x	65,1 ±1,4	73,9 ±1,6	93,8 ±1,6	120 ±2
ZB03x	86,6 ±1,4	97,4 ±1,6	125,3 ±1,6	157,5 ±2
ZB04x	108,1 ±1,4	120,9 ±1,6	156,8 ±1,6	195 ±2

1) Max.

2) Min.

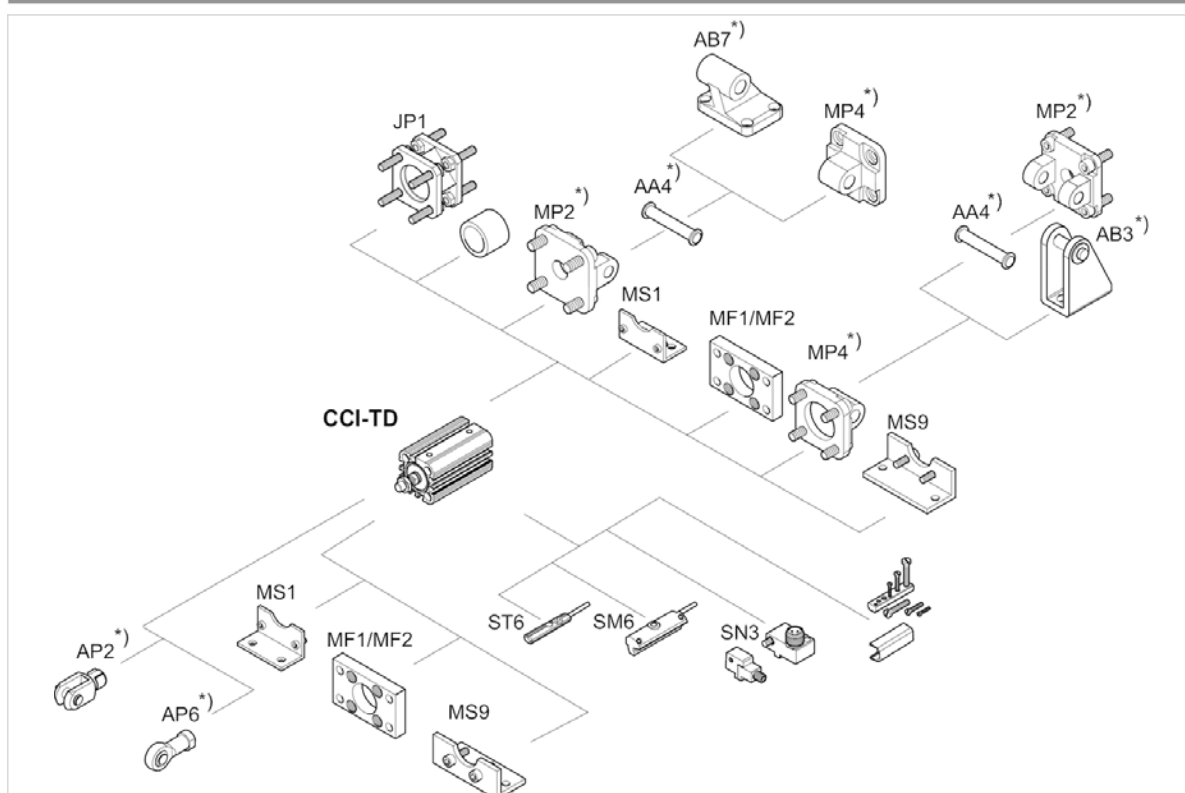
Diagrams

Circuit symbol



Accessories overview

Accessories overview



* Can only be used for 2x tandem