

Compact Cylinders ISO 21287

Bores from 16 to 125 mm



Standard executions		
Version	Symbol	Type
Single acting magnetic with female thread		CIS
Double acting magnetic with female thread		CI
Double acting magnetic anti-rotating		CIN

For the magnetic reed switches type ASV see from page 1.110.1
 For mounting accessories see from page 1.97.1
 For rod mountings see from page 1.85.1



On request, they can be supplied according to 94/9/EC - ATEX



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Series of compact cylinders conforming to ISO 21287 standards.
 The new barrel with grooves allow the mounting of the magnetic reed switches directly in the tube without brackets; the reed switch will not protrude out the barrel profile.
 This series is equipped with elastic dampers on the piston
 Only magnetic version available
 One or more magnetic reed switches can be mounted.

Options		Suffix
Single acting, rear spring	(page 1.16.5)	T
Male thread on piston-rod	(page 1.16.5)	M
Through-rod	(page 1.16.5)	P
Rod in stainless steel AISI 304	(only for Ø 32 - 40 - 50 - 63 - 80 - 100 - 125)	K
Seals FKM max 150°C	(V1 = with FKM rod wiper)	V
Tandem with coupled rods	(page 1.16.6)	TA1
Tandem with independent rods	(page 1.16.6)	TA2
Tandem back to back	(page 1.16.6)	TA3
Tandem front to front	(page 1.16.6)	TA4
Extended rod (indicate the requested WH dimension in mm. E.g.: WH-50)		WH-...
Special on request		/S

When possible options can be combined.

The suffix of the options are to be added to the model number of the standard product, as shown in the following table.

How to order: 63/100CIMP

63	/	100	CI	M	P
Bore	/	Stroke	Type	Option	Option

How to order: 32 / SG / CIP

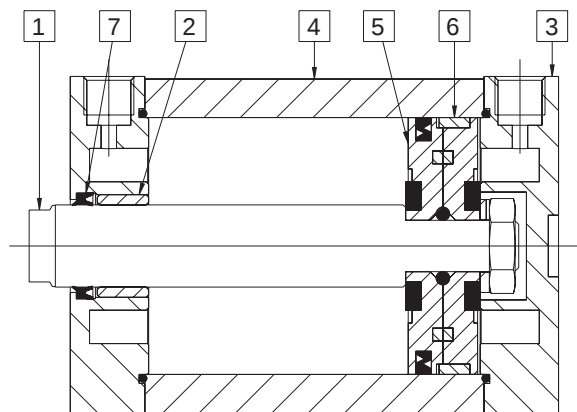
Seal kits	
n. 1	Rod seal
n. 2	Tube O-ring
n. 1	Piston lip-seal

32	/	SG	/	CI	P
Bore	/	Seal kit	/	Type	Option

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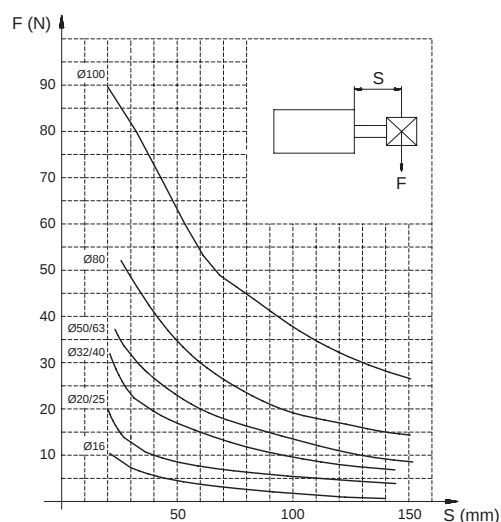
Technical data



Materials (standard types)

1 Rod	Stainless steel AISI 304 (Ø 16 - 25) Chrome-plated steel C45 (Ø 32 - 125)
2 Bushing	Stainless steel, sintered bronze, PTFE
3 Heads	Anodised aluminium
4 Tube	Anodised aluminium
5 Piston	PTFE (Ø 16) Aluminium (Ø 25 - 125)
6 Guide ring	PTFE
7 Rod seals	Polyurethane
Other seals	Nitrilic rubber NBR

Maximum radial load diagram

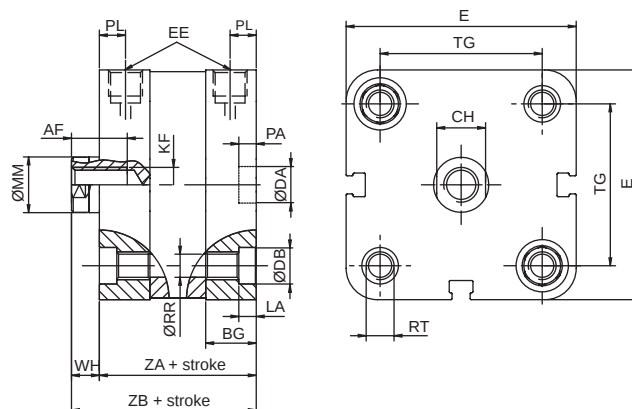


Technical data

Fluid	Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.
Pressure	Single acting 2 ÷ 10 bar - Double acting 1 ÷ 10 bar
Temperature	-20 °C ÷ +80 °C

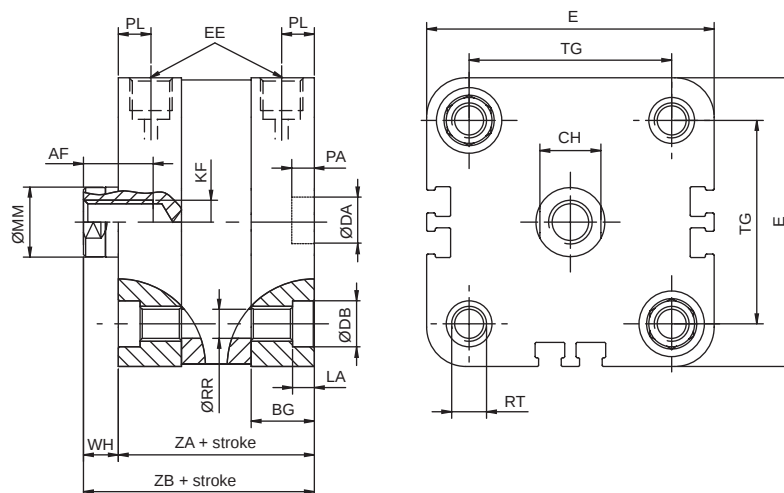
Bore (mm)	Standard strokes CIS	Standard strokes CI	Standard strokes CIN
16	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50 (5÷300)	5, 10, 15, 20, 25, 30, 40, 50 (5÷200)
20	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50, 60 (5÷300)	5, 10, 15, 20, 25, 30, 40, 50, 60 (5÷200)
25	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50, 60 (5÷300)	5, 10, 15, 20, 25, 30, 40, 50, 60 (5÷200)
32	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷400)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷300)
40	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷400)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷300)
50	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷400)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷300)
63	5, 10, 15, 20, 25 (5÷25)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷400)	5, 10, 15, 20, 25, 30, 40, 50, 60, 80 (5÷300)
80	15, 20, 25 (15÷25)	15, 20, 25, 30, 40, 50, 60, 80 (15÷500)	15, 20, 25, 30, 40, 50, 60, 80 (15÷400)
100	15, 20, 25 (15÷25)	15, 20, 25, 30, 40, 50, 60, 80, 100 (15÷500)	15, 20, 25, 30, 40, 50, 60, 80, 100 (15÷400)
125	15, 20, 25 (15÷25)	15, 20, 25, 30, 40, 50, 60, 80, 100 (15÷500)	15, 20, 25, 30, 40, 50, 60, 80, 100 (15÷400)

Type: **CI - CIS**
Bore: 16 - 20 - 25



Ø (mm)	Ø MM f7	AF	WH	ZA	ZB	KF	EE	BG	RR	TG	E	RT	LA	Ø DB	PL	CH	Ø DA H9	PA +0.1
16	8	10	4,5	35	39,5	M4	M5	12,7	3,1	18	29	M4	3,5	6	8	7	9	2,1
20	10	10	6	37	43	M6	M5	15	4,1	22	36	M5	4,1	7,5	6	8	9	2,1
25	10	10	6	39	45	M6	M5	15	4,1	26	40	M5	4,1	7,5	5	8	9	2,1

Type: **CI - CIS**
Bore: 32 - 40 - 50 - 63

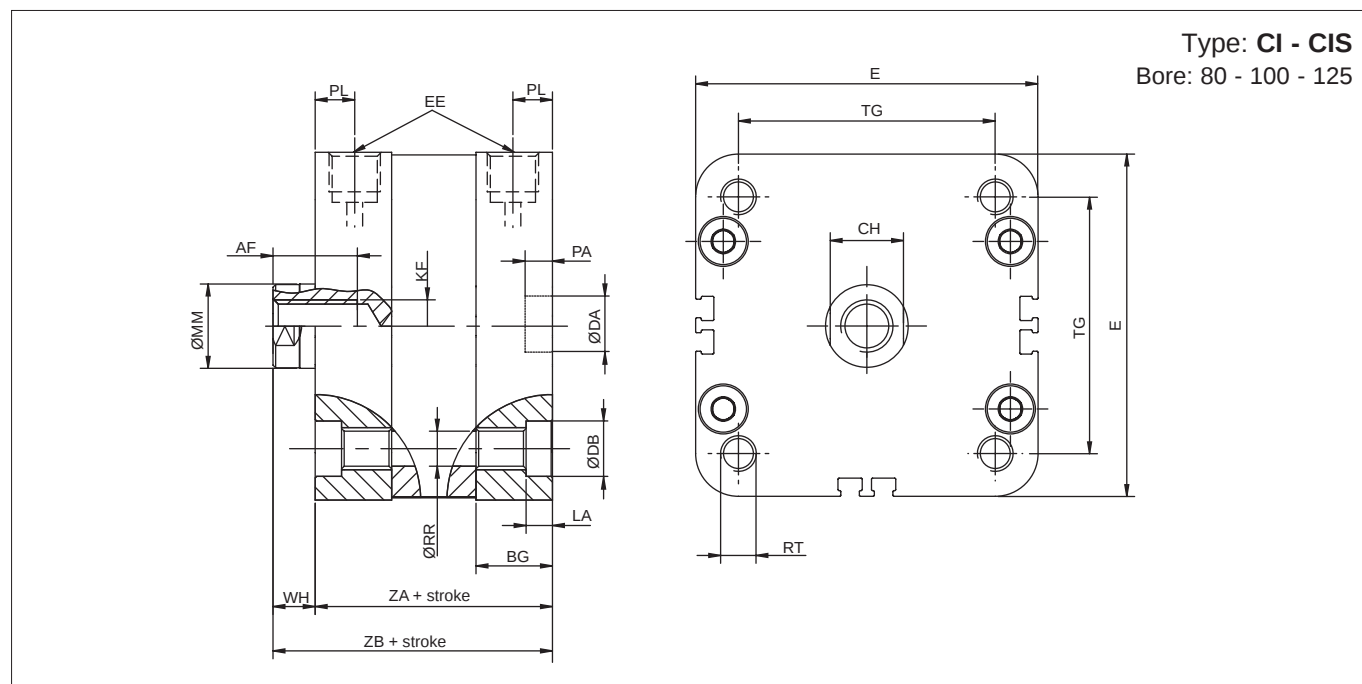


Ø (mm)	Ø MM f7	AF	WH	ZA	ZB	KF	EE	BG	RR	TG	E	RT	LA	Ø DB	PL	CH	Ø DA H9	PA +0.1
32	12	-	7	44	51	-	1/8"	16	-	32,5	47,5	M6	5,1	8,5	7	10	9	2,1
40	12	12	7	45	52	M8	1/8"	16	5,1	38	55	M6	5,1	8,5	7,5	10	9	2,1
50	16	16	8	45	53	M10	1/8"	16	6,4	46,5	66	M8	6,1	10,5	7,5	14	12	2,6
63	16	16	8	49	57	M10	1/8"	16	6,4	56,5	78	M8	6,1	10,5	7	14	12	2,6

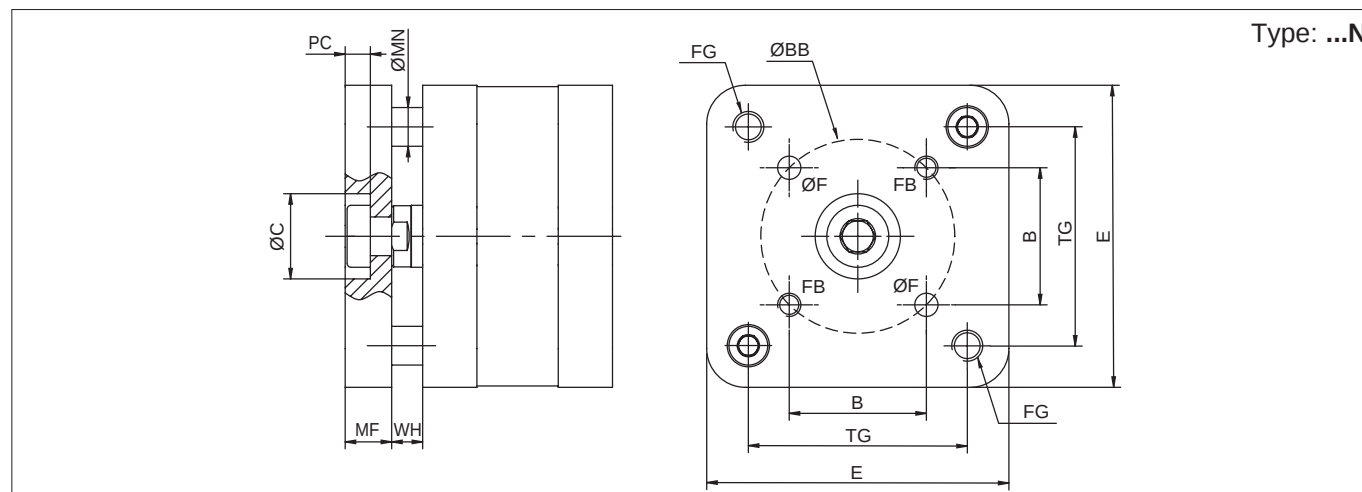
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Standard dimensions

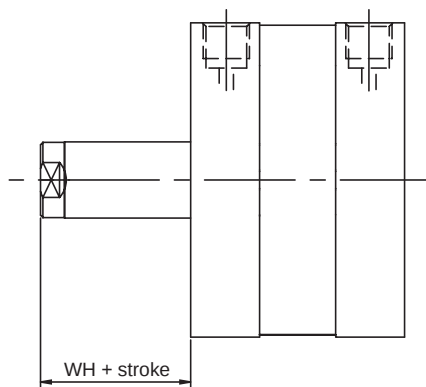


Ø (mm)	Ø MM f7	AF	WH	ZA	ZB	KF	EE	BG	RR	TG	E	RT	LA	Ø DB	PL	CH	Ø DA H9	PA +0.1
80	20	20	10	54	64	M12	1/8"	17	8,4	72	96	M10	8,5	13	8	17	12	2,6
100	20	20	10	67	77	M12	1/8"	17	8,4	89	116	M10	8,5	13	8,5	17	12	2,6
125	25	24	11	81	92	M16	1/4"	20	10,2	110	135	M12	10,5	17	10	21	12	2,6



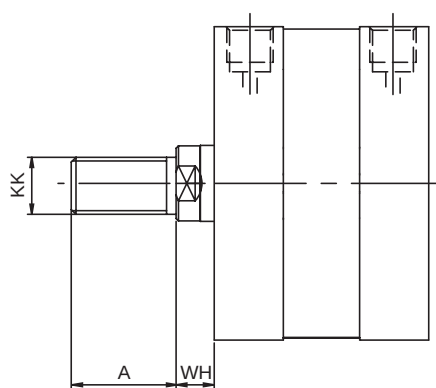
Ø (mm)	WH	MF +0,1	E	TG	B	FG	ØBB ±0,1	ØF +0,1	FB	ØC H9	PC	MN f7
16	4,5	6	29	18	9.9	M4	14	3	M3	7,5	4,5	6
20	6	8	36	22	12	M5	17	4	M4	10,5	4,5	6
25	6	8	40	26	15.6	M5	22	5	M5	14	4,5	6
32	7	10	47,5	32,5	19.8	M6	28	5	M5	17	5,5	8
40	7	10	55	38	23,3	M6	33	5	M5	17	5,5	8
50	8	12	66	46,5	29.7	M8	42	6	M6	22	6,5	10
63	8	12	78	56,5	35,4	M8	50	6	M6	22	6,5	10
80	10	14	96	72	46	M10	65	8	M8	24	7,5	10
100	10	14	116	89	56.6	M10	80	10	M10	24	7,5	12
125	-	-	-	-	-	-	-	-	-	-	-	-

Type: ...T

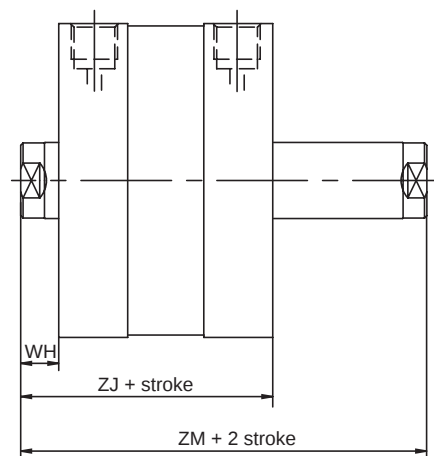


Available stroke: 1÷25

Type: ...M

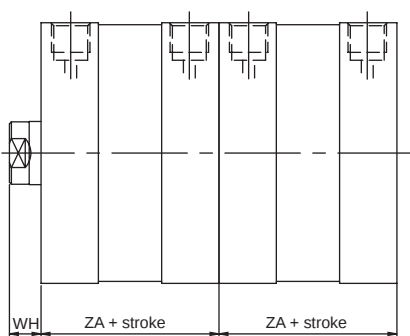


Type: ...P



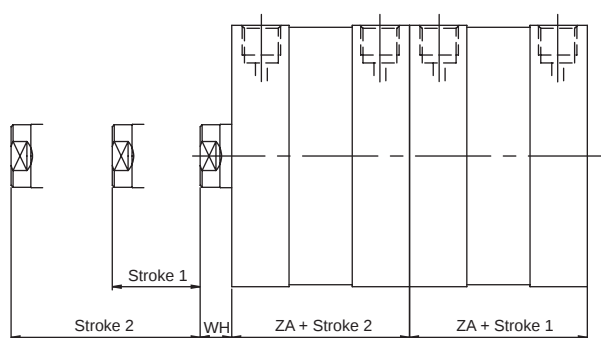
Ø (mm)	A	KK	WH	ZJ	ZM
16	12	M6	4,5	-	-
20	16	M8x1,25	6	43	49
25	16	M8x1,25	6	45	51
32	19	M10x1,25	7	51	58
40	19	M10x1,25	7	52	59
50	22	M12x1,25	8	53	61
63	22	M12x1,25	8	57	65
80	28	M16x1,5	10	64	74
100	28	M16x1,5	10	77	87
125	40	M20x1,5	11	92	103

Type: ...TA1



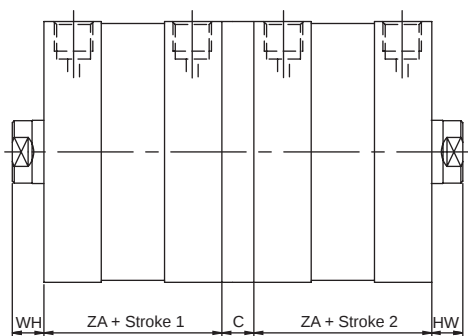
Ø (mm)	ZA	WH
25	39	6
40	45	7
63	49	8

Type: ...TA2



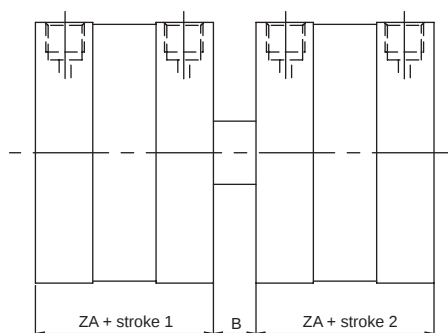
Ø (mm)	ZA	WH
25	39	6
40	45	7
63	49	8

Type: ...TA3



Ø (mm)	ZA	WH	C
20	37	6	13
25	39	6	13
32	44	7	15
40	45	7	15
50	45	8	15
63	49	8	15
80	54	10	17
100	67	10	19,5
125	81	11	19,5

Type: ...TA4



Ø (mm)	ZA	WH
20	37	9
25	39	11
32	44	12
40	45	13
50	45	15
63	49	15
80	54	16
100	67	20