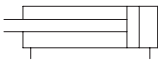
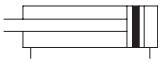
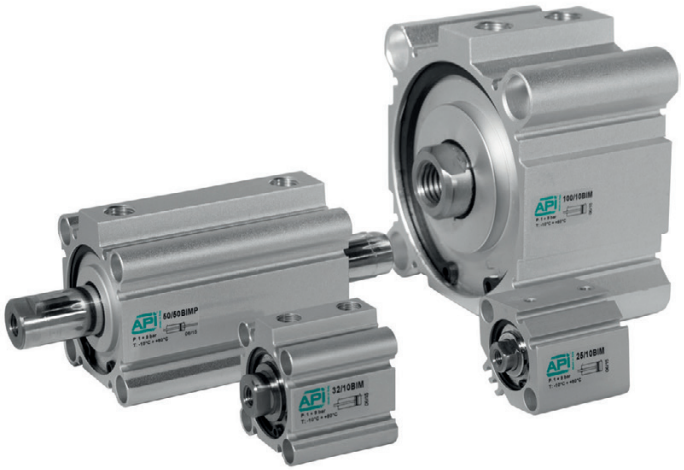
Short Stroke Cylinders ISO 15524

Bores from 12 to 100 mm *Double acting*

Standard executions		
Version	Symbol	Type
Double acting with female thread		BI
Double acting with male thread		BMI
Double acting magnetic with female thread		BIM
Double acting magnetic with male thread		BMIM



Series of short stroke cylinders standard to ISO 15524 magnetic and non-magnetic.
The shirt shaped extruded aluminum with mounting holes formed directly on it.
In the magnetic type, the sensor can be fixed in the special slot in the tube without having to use additional brackets; this makes that the magnetic sensor does not protrude beyond the profile of the tube. One or more sensors can be applied.
Provided with elastic dampers on the heads.

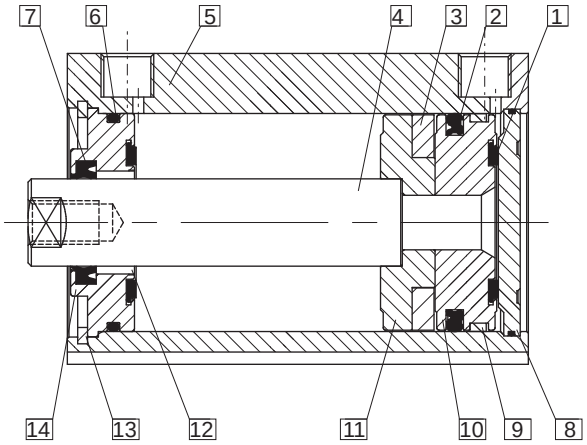
For the magnetic reed switches type ASC see page 1.110.2
For rod accessories see from page 1.85.1

Option	Suffix
Through rod (only for Ø 20 ÷ 100)	P
Rod in stainless steel AISI 304	K
Seals FKM -20°C ÷ +150°C	V
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: 63/100BMIK

63	/	100	BMI	K
Bore	/	Stroke	Type	Option

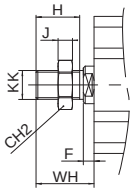
Techinical data										
Fluid	Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.									
Bores	12	16	20	25	32	40	50	63	80	100
Pressure range	1 ÷ 9 bar									
Max. pressure	13,5 bar									
Velocity	30 ÷ 500 mm/s									
Ports	M5 x 0,8				G1/8		G1/4		G3/8	
Stroke	from 5 to 100 mm									
Temperature	-10°C ÷ +80°C (standard)					-20°C ÷ +150°C (V)				



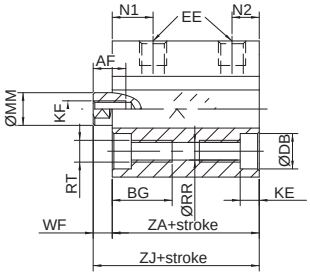
Materials (standard types)	
1 Buffer	Nitrilic rubber NBR
2 Piston seals	Nitrilic rubber NBR
3 Magnet	Magnetic material
4 Rod	Chrome-plated steel C45
5 Tube	Aluminium anodised
6 Seals	Nitrilic rubber NBR
7 Rod seals	Nitrilic rubber NBR
8 Posterior head	Aluminium anodised
9 Guide shoe	PTFE + graphite
10 Semi piston	Aluminium alloy
11 Semi piston	Aluminium alloy
12 Bushing	Self-lubricating sintered bronze
13 Seeger	Harmonic steel
14 Front head	Brass (Ø 12 - 25 mm) Aluminium alloy (Ø 32 - 100 mm)

Bores (mm)	Standard stroke BI - BMI - BIM - BMIM
12	5, 10, 15, 20, 25, 30
16	5, 10, 15, 20, 25, 30
20	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
25	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
32	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
40	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
50	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
63	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
80	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100
100	5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, 70, 75, 80, 90, 100

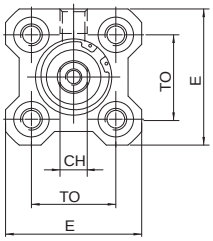
Type: **BI - BMI - BIM - BMIM**
Bore: 12



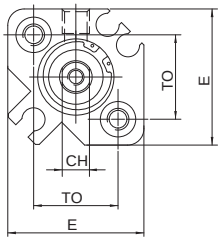
BMI-BMIM



BI-BIM



Non magnetic

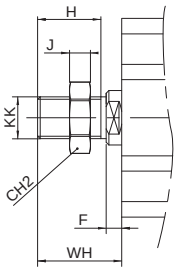


Magnetic

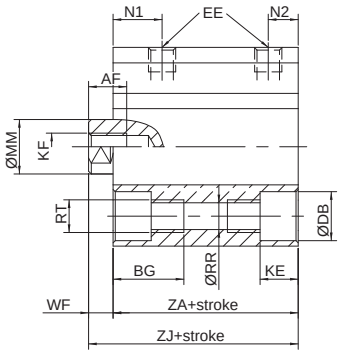
Ø (mm)	Ø MM f7	AF	WF	Non magnetic				Magnetic				EE	BG	RR	E	TO ±1	RT
				ZJ	ZA	N1	N2	ZJ	ZA	N1	N2						
12	6	6	3,5	20,5	17	7,5	5	31,5	28	9	7	M5 x 0,8	11	3,5	25	15,5	M4 x 0,7

Ø (mm)	Ø DB	KE	KF	CH	H	J	F	WH	KK	CH2
12	6,5	3,5	M3 x 0,5	5	9	4	3,5	14	M5 x 0,8	8

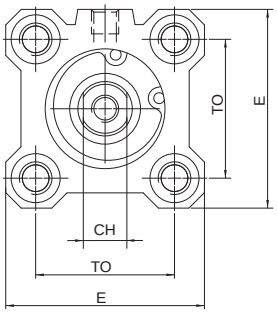
Type: **BI - BMI - BIM - BMIM**
Bores: 16 - 25



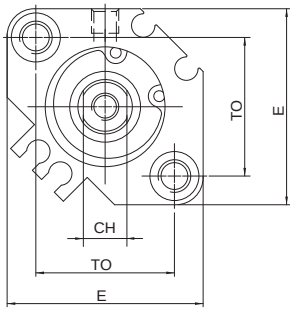
BMI-BMIM



BI-BIM



Non magnetic



Magnetic

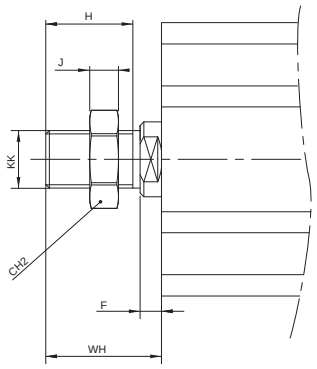
Ø (mm)	Ø MM f7	AF	WF	Non magnetic						Magnetic			
				ZJ (≤55)	ZJ (>55)	ZA (≤55)	ZA (>55)	N1	N2	ZJ	ZA	N1	N2
16	8	8	3,5	22		18,5		8	5,5	34	30,5	8	5,5
20	10	7	4,5	24	34	19,5	29,5	9	5,5	36	31,5	9	5,5
25	12	12	5	27	37,5	22,5	32,5	11	5,5	37,5	32,5	11	5,5

Ø (mm)	EE	BG	RR	E	TO ±1	RT	Ø DB	KE	KF	CH	H	J	F	WH	KK	CH2
16	M5 x 0,8	11	3,5	29	19,8	M4 x 0,7	6,5	3,4	M4 x 0,7	6	10	5	3,5	15,5	M6 x 1	10
20	M5 x 0,8	17	5,5	36	25,5	M6 x 1	9	7	M5 x 0,8	8	12	6	4,5	18,5	M8 x 1,25	12
25	M5 x 0,8	17	5,5	40	28	M6 x 1	9	7	M6 x 1	10	15	6	5	22,5	M10 x 1,5	17

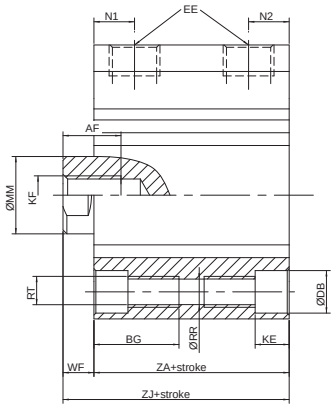
Short Stroke Cylinders ISO 15524

Bores from 12 to 100 mm *Standard dimensions double acting*

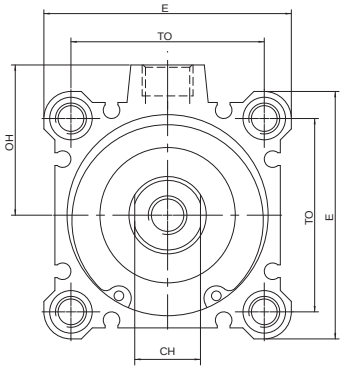
Type: **BI - BMI - BIM - BMIM**
Bores: 32 - 100



BMI-BMIM



BI-BIM



Ø (mm)	Ø MM f7	AF	WF	Non magnetic								Magnetic			
				ZJ (≤55)	ZJ (>55)	ZA (≤55)	ZA (>55)	N1 (=5)	N1 (>5)	N2 (=5)	N2 (>5)	ZJ	ZA	N1	N2
32	16	13	7	30	40	23	33	7,5	10,5	6,5	7,5	40	33	10,5	7,5
40	16	13	7	36,5	46,5	29,5	39,5	11		8		46,5	39,5	11	8
50	20	15	8	38,5	48,5	30,5	40,5	9	10,5	9	10,5	48,5	40,5	10,5	10,5
63	20	15	8	44	54	36	46	14	15	9,5	10,5	54	46	15	10,5
80	25	20	10	53,5	63,5	43,5	53,5	16		14		63,5	53,5	16	14
100	32	26	12	65	75	53	63	20		17,5		75	63	20	17,5

Ø (mm)	EE	BG	RR	E	OH	TO ±1	RT	Ø DB	KE	KF	CH	H	J	F	WH	KK	CH2
32	1/8"	17	5,6	45	27,1	34	M6 x 1	9	7	M8 x 1,25	14	20,5	8	5	28,5	M14x1,5	19
40	1/8"	17	5,6	52	31	40	M6 x 1	9	7	M8 x 1,25	14	20,5	8	5	28,5	M14x1,5	19
50	1/4"	22	6,6	64	38,9	50	M8 x 1,25	11	8	M10 x 1,5	17	26	11	5	33,5	M18x1,5	27
63	1/4"	28,5	9	77	45,5	60	M10 x 1,5	14	10,5	M10 x 1,5	17	26	11	5	33,5	M18x1,5	27
80	3/8"	35,5	11	98	55,5	77	M12 x 1,75	17,5	13,5	M16 x 2	22	32,5	13	8	43,5	M22x1,5	32
100	3/8"	35,5	11	117	65,5	94	M12 x 1,75	17,5	13,5	M20 x 2,5	27	32,5	13	8	43,5	M26x1,5	36

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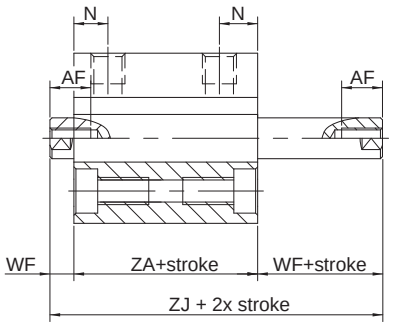

Ø (mm)	WF	Non magnetic		Magnetic		AF	N
		ZJ	ZA	ZJ	ZA		
20	4,5	35	26	47	38	7	9,5
25	5	39	29	49	39	9,5 (=5) - 12 (>5)	11
32	7	44,5	30,5	54,5	40,5	9 (≤10) - 13 (>10)	10
40	7	54	40	64	50	11 (≤10) - 13 (>10)	13
50	8	56,5	40,5	66,5	50,5	12 (≤10) - 15 (>10)	13,5
63	8	58	42	68	52	12 (≤10) - 15 (>10)	14,5 (=5) - 16 (>5)
80	10	71	51	81	61	14 (≤15) - 20 (>15)	16
100	12	84,5	60,5	94,5	70,5	20 (≤25) - 26 (>25)	21