

Standard executions		
Version	Symbol	Type
Non magnetic		BD
Magnetic		BDM
Anti-rotating magnetic from bore 20 to 100 mm		BDMN



On request, they can be supplied according to 2014/34/EU - ATEX

Options	Suffix
Through rod from bore 16 to 100 mm.	P
Seals FKM -20°C ÷ +150°C from bore 12 to 100 mm.	V
Special male thread (indicate the requested thread. E.g.: R-M10x1,5). The dimension AM of the special thread will be the same as the standard. The cylinder will be supplied without rod nut.	R-M...
Special versions on request	/ S

The options can be combined (when this is possible)



Series of short stroke cylinders with extruded aluminium profile barrel (up to the bore 100 mm) and fixing holes directly in the profile.

In the magnetic type, up to the bore 100 mm, the sensor can be fixed in the groove for sensor mounting by the bracket not included in the kit.

The sensor is to be fixed on the external tie rods with the bores 125, 160 and 200 mm.

Standard elastic dampers (except the non magnetic type up to the bore 100 mm).

For the magnetic reed switches type ASV see from page 1.110.1.

For the bracket type AS108 see page 1.120.1

For mounting accessories see from page 1.20.20.

For the rod with male thread see nipple page 1.20.20.

For rod accessories see from page 1.85.1.

How to order: 40 / 50 BDP

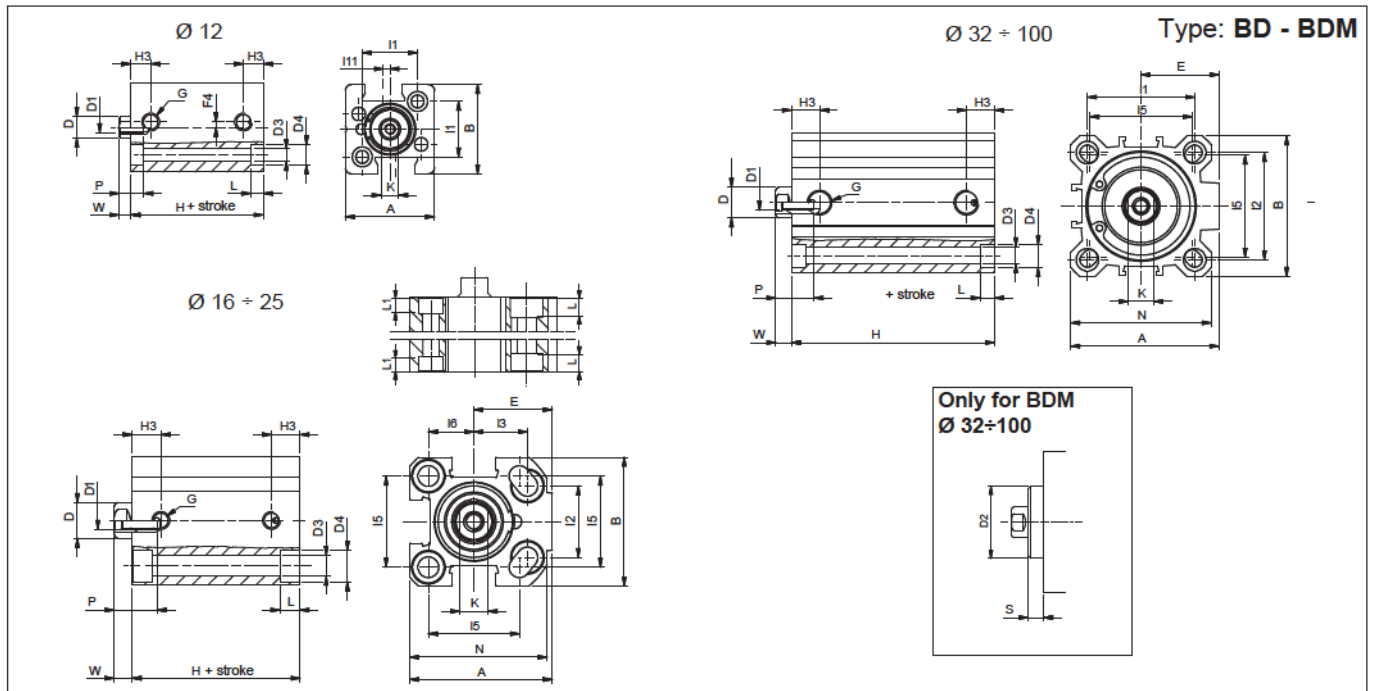
40	/	50	BD	P
Bore	/	Stroke	Type	Option

Technical data	
Fluid	Compressed filtered air with or without lubrication. Lubrication, if started, must be continued.
Pressure	2 ÷ 10 bar
Temperature range	-20°C ÷ + 80°C (standard) -20°C ÷ +150°C (V)
Materials	Heads: from 12 to 25 mm.: Brass from 32 to 100 mm.: Aluminium Tube: Anodised aluminium Rod: Stainless steel AISI 303 Seals: NBR Piston: Non magnetic: from 12 to 32 mm: Delrin from 40 to 200 mm: Aluminium Magnetic: from 12 to 63 mm: Delrin from 80 to 200 mm: Aluminium

Bore (mm)	Standard strokes BD (mm)	Standard strokes BDM (mm)	Standard strokes BDMN (mm)	Max stroke (mm)		
				BD	BDM	BDMN
12	5, 10, 15, 20, 25, 30, 40	5, 10, 15, 20, 25, 30, 40	-	40	40	-
16	5, 10, 15, 20, 25, 30, 40, 50	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100,	-	50	100	-
20		5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125		125	125
25	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100,	5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125, 160		5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125	100	
32		5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100,	10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125, 160, 200			10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125
40	10, 15, 20, 25, 30, 40, 50, 60, 80, 100,		10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125, 160, 200, 250	10, 15, 20, 25, 30, 40, 50, 60, 80, 100, 125, 160	250	
50		25, 50, 75, 100, 125, 160, 200, 250	25, 50, 75, 100, 125, 160, 200, 250			-
63	25, 50, 75, 100, 125, 160, 200, 250			25, 50, 75, 100, 125, 160, 200, 250	-	
80		25, 50, 75, 100, 125, 160, 200, 250	25, 50, 75, 100, 125, 160, 200, 250			-
100	25, 50, 75, 100, 125, 160, 200, 250			25, 50, 75, 100, 125, 160, 200, 250	-	
125		25, 50, 75, 100, 125, 160, 200, 250	25, 50, 75, 100, 125, 160, 200, 250			-
160	25, 50, 75, 100, 125, 160, 200, 250			25, 50, 75, 100, 125, 160, 200, 250	-	
200		25, 50, 75, 100, 125, 160, 200, 250	25, 50, 75, 100, 125, 160, 200, 250			-

See page 1.1.3 to calculate the cylinder force.

Should you require intermediate strokes, the overall dimensions of the cylinder body will be those of the cylinder of the following standard stroke (in fact the intermediate stroke is obtained applying a distancer).



Type: BD

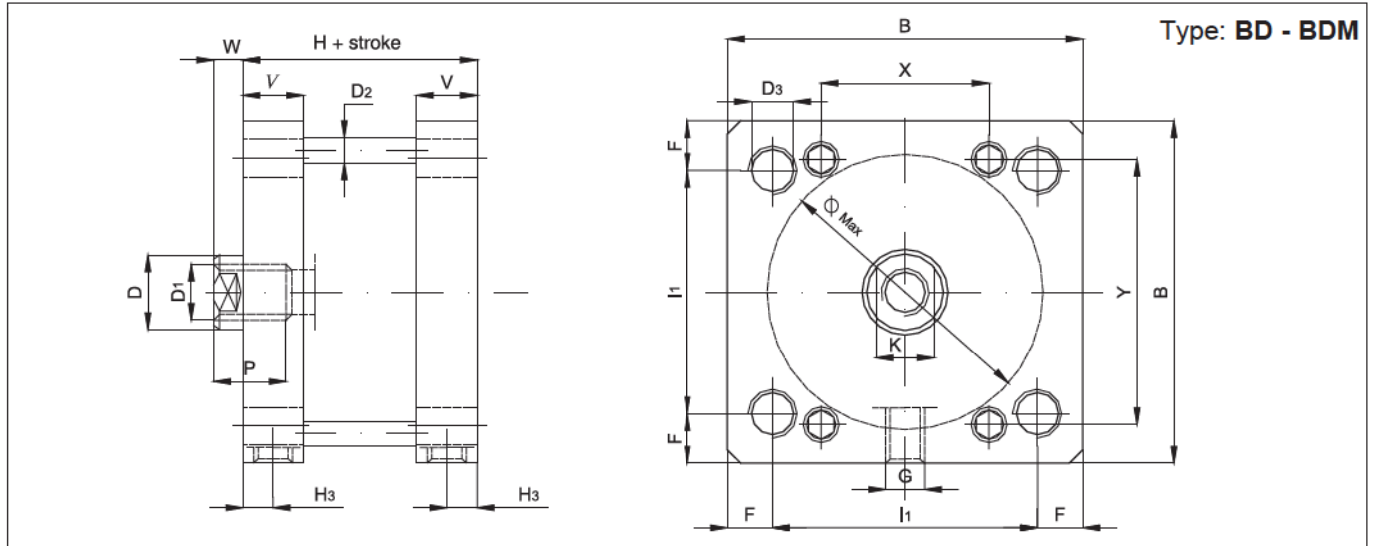
mm Ø	A	B	D Ø	D1	D3 Ø	D4 Ø	E	G	H	H3	I1	I2	I3	I5	I6	K	L	L1	N	P	W
12	25	25	6	M3	3,7	5,6	-	M5	17	5,5	15,5	-	-	-	-	5	3,5	-	-	6	3,5
16	34	30	8	M4	4,7	7,5	19	M5	27*	8	-	18	12	20	10	6	4,6	3,5	32	8	4,5
20	40	36	10	M5	5,8	9	22	M5	27*	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	10	5
25	44,5	40	10	M5	5,8	9	24,5	1/8"	28,5*	10,5	-	26	15,5	28	14	8	5,7	5,7	42	10	5,5
32	51	46	12	M6	5,8	9	27	1/8"	29,5	11,5	36	32	-	34	-	10	5,7	-	48	12	6
40	58	55	12	M6	5,8	9	30,5	1/8"	29,5	11	42	42	-	40	-	10	5,7	-	55	12	6
50	70	65	16	M8	6,8	11	37,5	1/8"	34,5	11,5	50	50	-	50	-	13	6,8	-	65	12	7,5
63	89	80	16	M8	9	14	46	1/8"	37	11	62	62	-	60	-	13	8,8	-	80	14	7
80	105	100	20	M10	9	14	55	1/4"	46	14	82	82	-	77	-	17	9	-	100	15	8
100	131	124	25	M12	11	17,2	69	1/4"	56	16	103	103	-	94	-	22	11	-	124	20	10

* for strokes 30 - 40 - 50: Ø 16 - 20 add +1 mm
* for strokes 40 - 50: Ø 25 add +1 mm

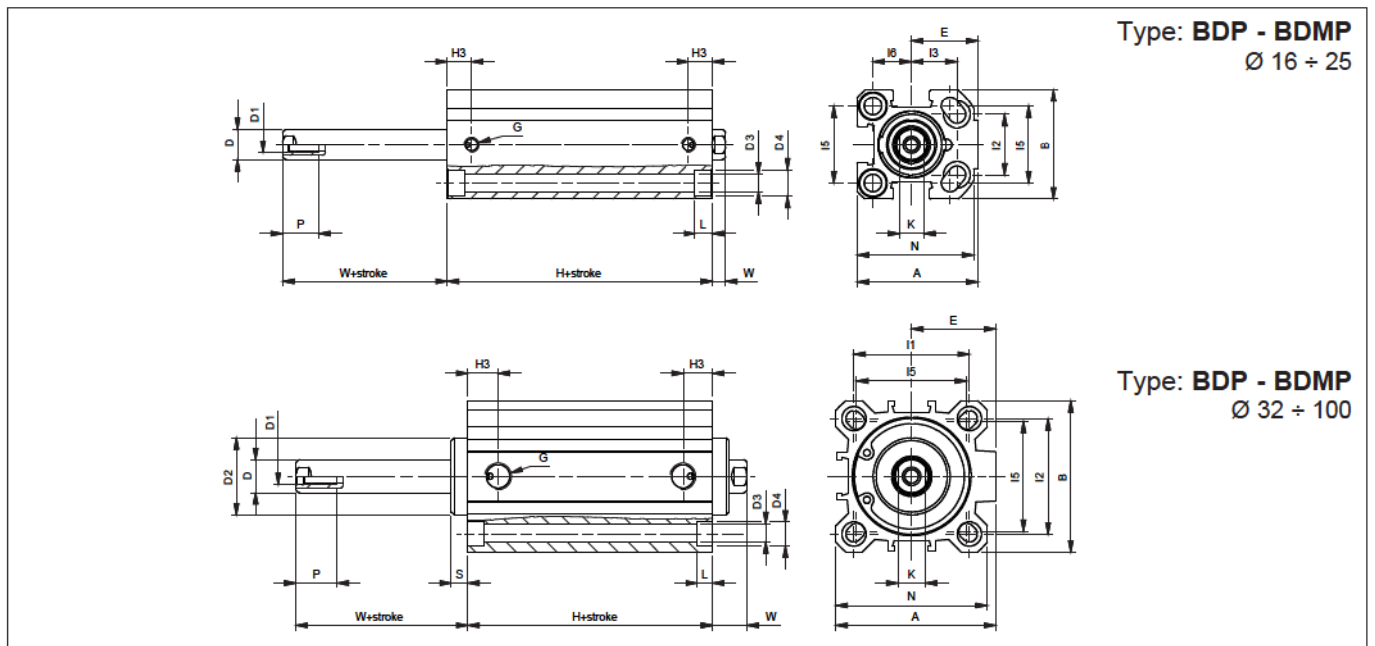
Type: BDM

mm Ø	A	B	D Ø	D1	D2 Ø	D3 Ø	D4 Ø	E	G	H	H3	I1	I2	I3	I5	I6	K	L	L1	N	P	S	W
12	25	25	6	M3	-	3,7	5,6	-	M5	27	5,5	15,5	-	-	-	-	5	3,5	-	-	6	-	3,5
16	34	30	8	M4	-	4,7	7,5	19	M5	32*	8	-	18	12	20	10	6	4,6	3,5	32	8	-	4,5
20	40	36	10	M5	-	5,8	9	22	M5	32*	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	10	-	4,5
25	44,5	40	10	M5	-	5,8	9	24,5	1/8"	38,5*	10,5	-	26	15,5	28	14	8	5,7	5,7	42	10	-	5,5
32	51	46	12	M6	24,5	5,8	9	27	1/8"	39,5	11,5	36	32	-	34	-	10	5,7	-	48	12	5	5,5
40	58	55	12	M6	28	5,8	9	30,5	1/8"	39,5	11	42	42	-	40	-	10	5,7	-	55	12	6	6,5
50	70	65	16	M8	34	6,8	11	37,5	1/8"	39,5	11,5	50	50	-	50	-	13	6,8	-	65	12	6	7,5
63	89	80	16	M8	38,5	9	14	46	1/8"	42	11	62	62	-	60	-	13	8,8	-	80	14	8	6,5
80	105	100	20	M10	44	9	14	55	1/4"	46	14	82	82	-	77	-	17	9	-	100	15	10	8
100	131	124	25	M12	56	11	17,2	69	1/4"	56	16	103	103	-	94	-	22	11	-	124	20	10,5	10

* for strokes ≥ 25: Ø 16-20 add +6 mm // Ø 25 add +1 mm



Ø mm	B	D Ø	D1 Ø	D2 Ø	D3 Ø	F	G	H3	I1	K	P	V	W	X	Y	Ø est. max.	H (NBR)	H (VITON)
125	140	30	M14	10	M12	15	1/4"	10	110	28	25	22	10	77	123	132	78	83
160	180	40	M20	12	M16	20	3/8"	12	140	36	30	26	12	94	157	168	87	91
200	220	40	M20	14	M16	22,5	3/8"	12	175	36	30	26	12	126	193	210	87	105



mm Ø	A	B	D Ø	D1	D2 Ø	D3 Ø	D4 Ø	E	G	H	H3	I1	I2	I3	I5	I6	K	L	L1	N	P	S	W
16	34	30	8	M4	-	4,7	7,5	19	M5	32*	8	-	18	12	20	10	6	4,6	3,5	32	8	-	4,5
20	40	36	10	M5	-	5,8	9	22	M5	32*	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	10	-	4,5
25	44,5	40	10	M5	-	5,8	9	24,5	1/8"	38,5*	10,5	-	26	15,5	28	14	8	5,7	5,7	42	10	-	5,5
32	51	46	12	M6	24,5	5,8	9	27	1/8"	39,5	11,5	36	32	-	34	-	10	5,7	-	48	12	5	11
40	58	55	12	M6	28	5,8	9	30,5	1/8"	39,5	11	42	42	-	40	-	10	5,7	-	55	12	6	12,5
50	70	65	16	M8	34	6,8	11	37,5	1/8"	39,5	11,5	50	50	-	50	-	13	6,8	-	65	12	6	13,5
63	89	80	16	M8	38,5	9	14	46	1/8"	42	11	62	62	-	60	-	13	8,8	-	80	14	8	15
80	105	100	20	M10	44	9	14	55	1/4"	46	14	82	82	-	77	-	17	9	-	100	15	10	18
100	131	124	25	M12	56	11	17,2	69	1/4"	56	16	103	103	-	94	-	22	11	-	124	20	10,5	20,5

* for strokes ≥ 25: Ø 16 - 20 add +6 mm // Ø 25 add +1 mm