

Features and certifications

Series of short stroke cylinders, available in bores from Ø 12 to 100, single acting or double acting, magnetic or non magnetic, with female thread. Up to bore Ø 100 with extruded aluminium profile barrel allowing the direct mounting of magnetic reed switches, and built-in mounting holes. Supplied as standard in compliance with Reach and RoHS directives, and SIL certificated. On request, they can be also supplied according to the 2014/34/EU ATEX Directive.

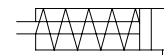


Type BS Ø 12 ÷ 100

from page 1.20.20



Short stroke cylinders, available in bores from Ø 12 to 100, single acting, non magnetic, with female thread.
Mounting holes are built-in the barrel.

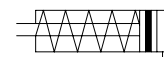


Type BSM Ø 12 ÷ 100

from page 1.20.20



Short stroke cylinders, available in bores from Ø 12 to 100, single acting, magnetic, with female thread and elastic dampers on the heads.
Barrell present built-in mounting holes and grooves allowing the mounting of magnetic reed switches (with bracket to be ordered separately).

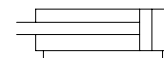


Type BD Ø 12 ÷ 100

from page 1.20.40



Short stroke cylinders, available in bores from Ø 12 to 100, double acting, non magnetic, with female thread.
Mounting holes are built-in the barrel.

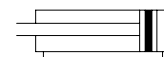


Type BDM Ø 12 ÷ 100

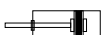
from page 1.20.40



Short stroke cylinders, available in bores from Ø 12 to 100, double acting, magnetic, with female thread and elastic dampers on the heads.
Barrell present built-in mounting holes and grooves allowing the mounting of magnetic reed switches (with bracket to be ordered separately).



Options

Description	Symbol	Suffix
Anti-rotating plate (available only for type BDM from Ø 20 to 100)		N
Rear spring (available only for type BS e BSM, from Ø 12 to 63)		T
Through rod (available from Ø 16 to 100)		P
FKM seals (available from Ø 16 to 100) -20°C ÷ +150°C		V
Stainless steel seeger for front head (from Ø 25 to 100)		SGX
ATEX versions on request		/ATEX
Special versions on request		/S

The options, when this is possible, can be combined with each other. For options matching see from page 1.20.4; For code key see from page 1.20.5

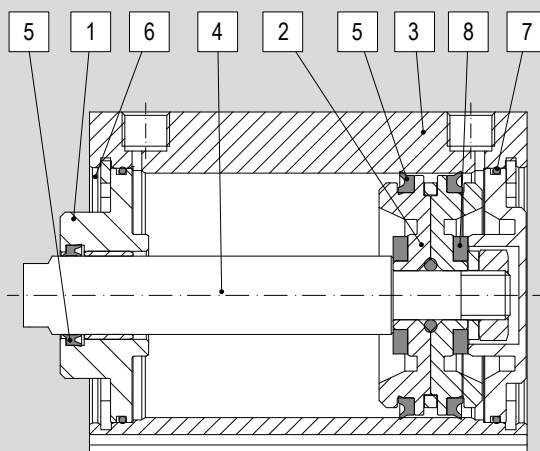
Options matching

Series	Bore	Model	Standard options matching					
			N (Ø20÷100)	T (Ø12÷63)	P (Ø16÷100)	V (Ø16÷100)	SGX (Ø25÷100)	/ATEX
BS-BSM	Ø 12 ÷ 100	Standard	-	●	-	●	●	●
	Ø 12 ÷ 63	Rear spring (T)	-		-	●	●	●
BD	Ø 12 ÷ 100	Standard	●	-	●	●	●	●
	Ø 16 ÷ 100	Through rod (P)	●	-		●	●	●
BDM	Ø 12 ÷ 100	Standard	●	-	●	●	●	●
	Ø 20 ÷ 100	Anti-rotating plate (N)		-	●	●	●	●
	Ø 16 ÷ 100	Through rod (P)	●	-		●	●	●

Key

● allowed matching; - not allowed matching

Standard materials



Position	Description		Materials									
			Ø 12	Ø 16	Ø 20	Ø 25	Ø 32	Ø 40	Ø 50	Ø 63	Ø 80	Ø 100
1	End cover		Brass				Aluminium					
2	Semi-piston	Magnetic	Acetalic resin (POM)							Aluminium		
		Non magnetic	Acetalic resin (POM)				Aluminium					
3	Tube		Anodised aluminium									
4	Rod		Stainless Steel AISI 303									
5	Rod seal		Polyurethane (PU)									
6	Seeger		Steel									
7	Seals		NBR									
8	Elastic dampers		NBR									

Code key

Bore	/	Stroke	Type	Options					/	ATEX version	Special version
40	/	50	BD			P			/		
Ø 12, 16, 20, 25, 32, 40, 50, 63, 80, 100			BS Single acting Non magnetic	N ⁽¹⁾	T ⁽²⁾	P ⁽³⁾	V ⁽³⁾	SGX ⁽⁴⁾			S
			BSM Single acting Magnetic								
			BD Double acting Non magnetic								
			BDM Double acting Magnetic								
See table on page 1.20.20			ATEX   II 2G Ex h IIC T5 Gb II 2D Ex h IIIC T100°C Db								

How to order

Bore	Stroke	Type	Options
40	/	50	BD
			P

Notes

Options in the same grid are alternative to each others.

For further information on options and their matching, see page 1.20.3 and page 1.20.4

(1) Available only for types BD and BDM from Ø 25 to 100

(2) Available only for types BS and BSM from Ø 12 to 63

(3) Available from Ø 16 to 100

(4) Available from Ø 25 to 100

For further information on the ATEX 2014/34/EU Directive, on classifications and protections, see from page III.1

Seal kit standard*

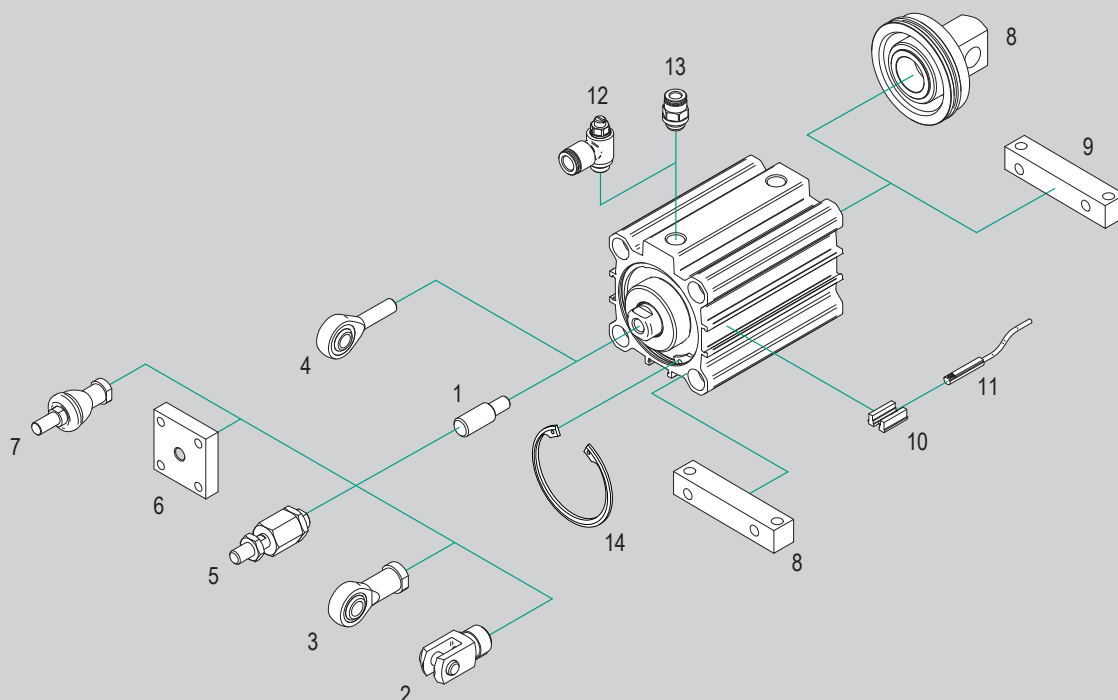
Number of components	Description
n. 1	Rod seal
n. 2	Barrell o-ring
n. 1	Semipiston o-ring
n. 2	Piston seal
n. 2	Elastic dampers

*For cylinders with options P or V, the kit include further components.

Standard seal kit code key

Cylinder bore	/	Seal kit	/	Cylinder type
40	/	SG	/	BD
Ø 12, 16, 20, 25, 32, 40, 50, 63, 80, 100				BD
				BDM

Accessories



N.	Cylinder bore	Item	Description	Compliance	Matching		Code page	Data sheet page
					BS-BD	BSM-BDM		
1	Ø 12 ÷ 100	N..AQB	Rod nipple	-	●	●	1.20.90	1.90.60
2	Ø 12 ÷ 100	FF..ISO	ISO female clevis with clip	ISO 8140	● ⁽¹⁾	● ⁽¹⁾		1.85.10
	Ø 32 ÷ 100	FFP..ISO	ISO female clevis with pin and seeger		● ⁽¹⁾	● ⁽¹⁾		1.85.11
	Ø 12 ÷ 100	FFN..ISO	ISO female clevis (body only)		● ⁽¹⁾	● ⁽¹⁾		1.90.1
3	Ø 12 ÷ 100	RF..SE	Bearing head (DIN 648K) with female thread	ISO 8139	● ⁽¹⁾	● ⁽¹⁾	1.20.91	1.90.2
4	Ø 16 ÷ 63	RM..SE	Bearing head (DIN 648K) with male thread	ISO 8139	●	●		1.90.10
	Ø 80 ÷ 100			DIN	●	●		
5	Ø 12 ÷ 100	GB..	Bearing - Self-aligning articulated coupling	-	● ⁽¹⁾	● ⁽¹⁾	1.20.91	1.90.40
6	Ø 32 ÷ 100	GC..	Self-aligning coupling		● ⁽¹⁾	● ⁽¹⁾		1.90.20
7	Ø 12 ÷ 100	RBI..	Bearing - Axial articulated coupling		● ⁽¹⁾	● ⁽¹⁾	1.20.90	1.90.30
		RBL..	Bearing - Angular articulated coupling		● ⁽¹⁾	● ⁽¹⁾		1.100.201
8	Ø 16 ÷ 100	CM..ALB	Back head with integrated rear eye	-	● ⁽²⁾	● ⁽²⁾	1.20.91	1.100.200
9	Ø 16 ÷ 100	P..ALB	High foot		●	●		1.120.2
10	Ø 12 ÷ 100	AS108	Bracket for reed switches type "T"		-	●		1.110.10
11	Ø 12 ÷ 100	ASV..	Magnetic reed switch T groove		-	●		1.113.1
		MK..	ATEX magnetic reed switch T groove	2014/34/EU	-	●		
12	Ø 12 ÷ 100	R..	Push-in fittings	-	●	●	4.2.1	
13	Ø 12 ÷ 100	V..C	Flow controls, for cylinders		●	●	4.94.1	
14	Ø 25 ÷ 100	SGX..	Stainless steel seeger for front head		●	●	1.20.91	-

Key

● matching accessory; - not matching accessory

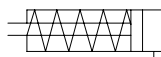
(1) Matching only with rod nipple N..AQB mounted

(2) Accessory to be ordered with the cylinder

Main features

12 ÷ 100

Bores Ø



Single acting
Non magnetic
With female thread

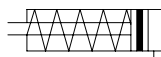
BS

Type



12 ÷ 100

Bores Ø



Single acting
Magnetic
With female thread

BSM

Type



Technical data

Bore Ø mm	12	16	20	25	32	40	50	63	80	100
Fluid	Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.									
Pressure range	2 ÷ 10 bar									
Temperature range	-20°C ÷ +80°C (standard)					-20°C ÷ +150°C (V)				
Port	M5				1/8"				1/4"	
Thrust force (N)	51	106	170	258	441	729	1070	1720	2880	4400
Spring traction force (N)	5	6		13	18	20	40	49	76	131
Strokes*	5 ÷ 25 mm				5 ÷ 50 mm					
Rod thread	M3	M4	M5		M6		M8		M10	M12

*In case of intermediate strokes from the standard strokes (see table below), the cylinder body will have the overall dimensions of the cylinder with the next standard stroke, as desired stroke is obtained by applying a spacer.

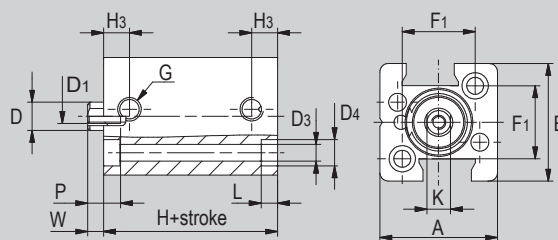
Standard strokes

Stroke mm	BS Bore Ø mm									
	12	16	20	25	32	40	50	63	80	100
5										
10										
15										
20										
25										
30										
40										
50										

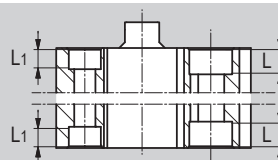
Stroke mm	BSM Bore Ø mm									
	12	16	20	25	32	40	50	63	80	100
5										
10										
15										
20										
25										
30										
40										
50										

Key
 Standard stroke

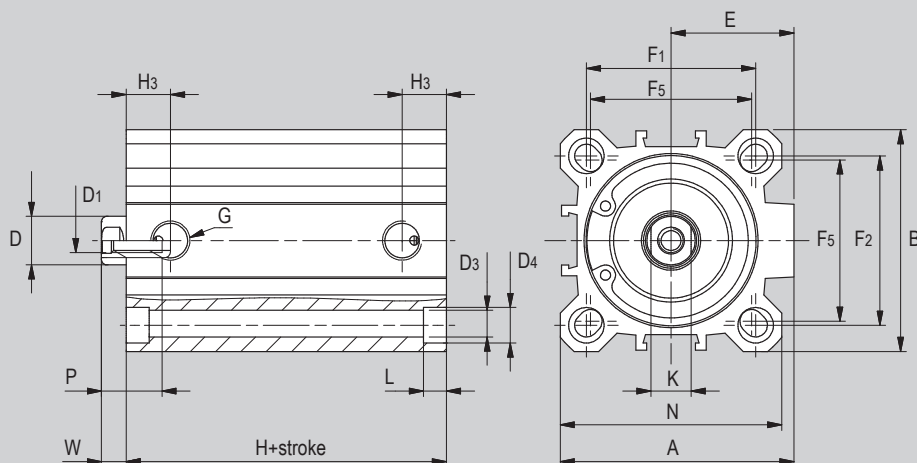
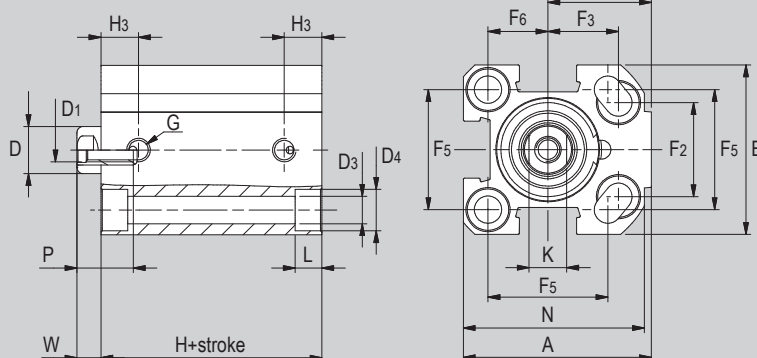
Standard dimensions



Type: **BS, BSM**
Ø 12



Type: **BS, BSM**
Ø 16 ÷ 25

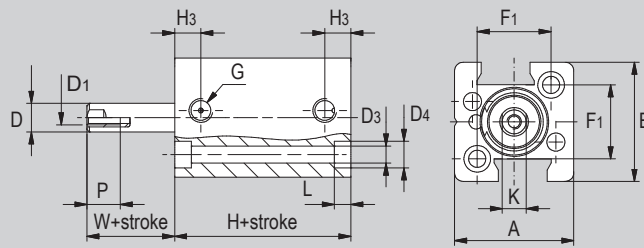


Type: **BS, BSM**
Ø 32 ÷ 100

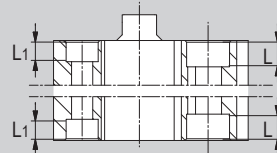
Ø (mm)	A	B	ØD	D ₁	ØD ₃	ØD ₄	E	G	H		H ₃	F ₁	F ₂	F ₃	F ₅	F ₆	K	L	L ₁	N	P	W
									type BS	type BSM												
12	25	25	6	M3	3,7	5,6	-	M5	17 ⁽¹⁾	27	5,5	15,5	-	-	-	-	5	3,5	-	-	7	3,5
16	34	30	8	M4	4,7	7,5	19	M5	27	32 ⁽³⁾	8	-	18	12	20	10	6	4,6	3,5	32	11	4,5
20	40	36	10	M5	5,8	9	22	M5	27	32 ⁽³⁾	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	12	5
25	44,5	40	10	M5	5,8	9	24,5	1/8"	28,5	38,5 ⁽⁴⁾	10,5 ⁽⁶⁾	-	26	15,5	28	14	8	5,7	5,7	42	12	5,5
32	51	46	12	M6	5,8	9	27	1/8"	29,5 ⁽²⁾	39,5 ⁽⁵⁾	11,5 ⁽⁷⁾	36	32	-	34	-	10	5,7	-	48	15	6
40	58	55	12	M6	5,8	9	30,5	1/8"	29,5 ⁽²⁾	39,5 ⁽⁵⁾	11 ⁽⁷⁾	42	42	-	40	-	10	5,7	-	55	15	6
50	70	65	16	M8	6,8	11	37,5	1/8"	34,5 ⁽²⁾	39,5 ⁽⁵⁾	11,5	50	50	-	50	-	13	6,8	-	65	17	7,5
63	89	80	16	M8	9	14	46	1/8"	37 ⁽²⁾	42 ⁽³⁾	11	62	62	-	60	-	13	8,8	-	80	17	7
80	105	100	20	M10	9	14	55	1/4"	46 ⁽²⁾	46 ⁽³⁾	14	82	82	-	77	-	17	9	-	100	17	8
100	131	124	25	M12	11	17,2	69	1/4"	56 ⁽²⁾	56 ⁽³⁾	16	103	103	-	94	-	22	11	-	124	22	10

(1) For strokes 15, 20 and 25 mm, add +5 mm to dimension; (2) For strokes 40 and 50 mm, add +10 mm to dimension; (3) For stroke 25 mm, add +6 mm to dimension; (4) For strokes 25 mm, add +1 mm to dimension; (5) For strokes 40 and 50 mm, add +10 mm to dimension; (6) If quote H is less than 38,5 the dimension is 8,5; (7) If quote H is less than 39,5 the dimension is 8.

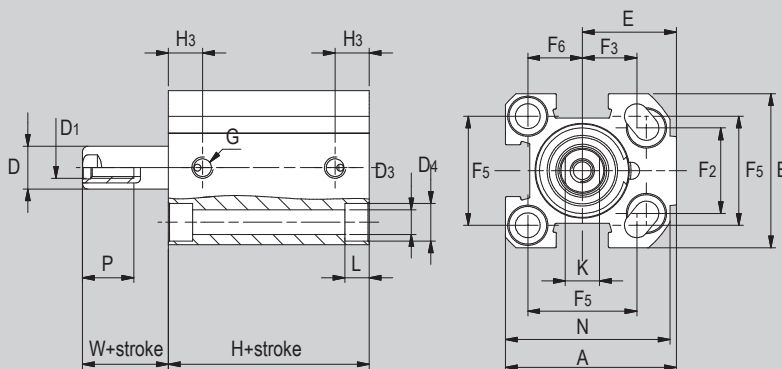
Dimensions with options



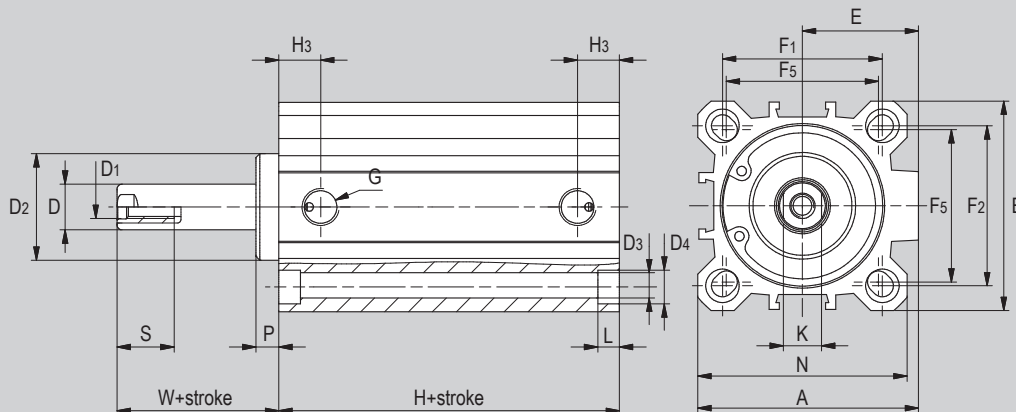
Type: ...T
Ø 12



Type: ...T
Ø 16 ÷ 25



Type: ...T
Ø 32 ÷ 63



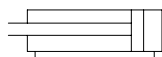
Ø (mm)	A	B	ØD	D ₁	ØD ₂	ØD ₃	ØD ₄	E	G	H	H ₃	F ₁	F ₂	F ₃	F ₅	F ₆	K	L	L ₁	N	P	S	W
12	25	25	6	M3	-	3,7	5,6	-	M5	17 ⁽¹⁾	5,5	15,5	-	-	-	-	5	3,5	-	-	7	-	3,5
16	34	30	8	M4	-	4,7	7,5	19	M5	32 ⁽²⁾	8	-	18	12	20	10	6	4,6	3,5	32	11	-	4,5
20	40	36	10	M5	-	5,8	9	22	M5	32 ⁽²⁾	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	12	-	4,5
25	44,5	40	10	M5	-	5,8	9	24,5	1/8"	38,5 ⁽³⁾	10,5	-	26	15,5	28	14	8	5,7	5,7	42	12	-	5,5
32	51	46	12	M6	24,5	5,8	9	27	1/8"	39,5 ⁽⁴⁾	11,5	36	32	-	34	-	10	5,7	-	48	15	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	15	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	17	6	13,5
63	89	80	16	M8	38,5	9	14	46	1/8"	42	11	62	62	-	60	-	13	8,8	-	80	17	8	15

(1) For BS type the dimension is 17, for BSM type the dimension is 27; (2) For strokes 20 and 25 mm, add +11 mm to dimension; (3) For strokes 20 and 25 mm, add +6 mm to dimension; (4) For strokes 20 and 25 mm, add +5 mm to dimension, while for stroke 30 mm add +10 mm to dimension.

Main features

12 ÷ 100

Bores Ø



Double acting
Non magnetic
With female thread



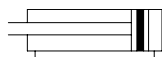
BD

Type



12 ÷ 100

Bores Ø



Double acting
Magnetic
With female thread



BDM

Type



Technical data

Bore Ø mm		12	16	20	25	32	40	50	63	80	100	
Fluid		Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.										
Pressure range		2 ÷ 10 bar										
Temperature range		-20°C ÷ +80°C (standard)					-20°C ÷ +150°C (V)					
Port		M5			1/8"						1/4"	
Strokes*	BD	5 ÷ 40 mm	5 ÷ 50 mm			5 ÷ 100 mm		10 ÷ 100 mm				
	BDM	5 ÷ 40 mm	5 ÷ 100 mm	5 ÷ 125 mm		5 ÷ 160 mm		10 ÷ 200 mm		10 ÷ 250 mm		
	..N	-		5 ÷ 125 mm				10 ÷ 125 mm	10 ÷ 160 mm			
Rod thread		M3	M4	M5		M6		M8		M10	M12	

*In case of intermediate strokes from the standard strokes (see table below), the cylinder body will have the overall dimensions of the cylinder with the next standard stroke, as desired stroke is obtained by applying a spacer.

Standard strokes

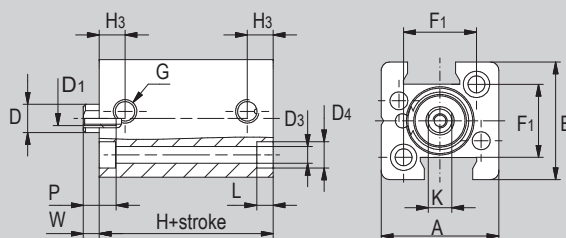
Stroke mm	BD Bore Ø mm									
	12	16	20	25	32	40	50	63	80	100
5	✓	✓	✓	✓	✓	✓				
10	✓	✓	✓	✓	✓	✓	✓	✓		
15	✓	✓	✓	✓	✓	✓	✓	✓		
20	✓	✓	✓	✓	✓	✓	✓	✓		
25	✓	✓	✓	✓	✓	✓	✓	✓		
30	✓	✓	✓	✓	✓	✓	✓	✓		
40	✓	✓	✓	✓	✓	✓	✓	✓		
50			✓	✓	✓	✓	✓	✓		
60										
80										
100										

Stroke mm	BDM Bore Ø mm									
	12	16	20	25	32	40	50	63	80	100
5	✓	✓	✓	✓	✓	✓				
10	✓	✓	✓	✓	✓	✓	✓	✓		
15	✓	✓	✓	✓	✓	✓	✓	✓		
20	✓	✓	✓	✓	✓	✓	✓	✓		
25	✓	✓	✓	✓	✓	✓	✓	✓		
30	✓	✓	✓	✓	✓	✓	✓	✓		
40	✓	✓	✓	✓	✓	✓	✓	✓		
50			✓	✓	✓	✓	✓	✓		
60										
80										
100										
125										
160										
200										
250										

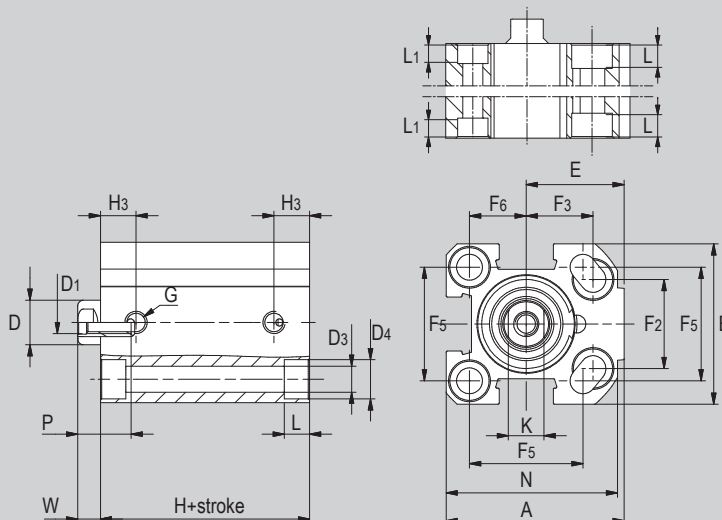
Stroke mm	..N Bore Ø mm							
	20	25	32	40	50	63	80	100
5								
10								
15								
20								
25								
30								
40								
50								
60								
80								
100								
125								
160								

Key
 Standard stroke

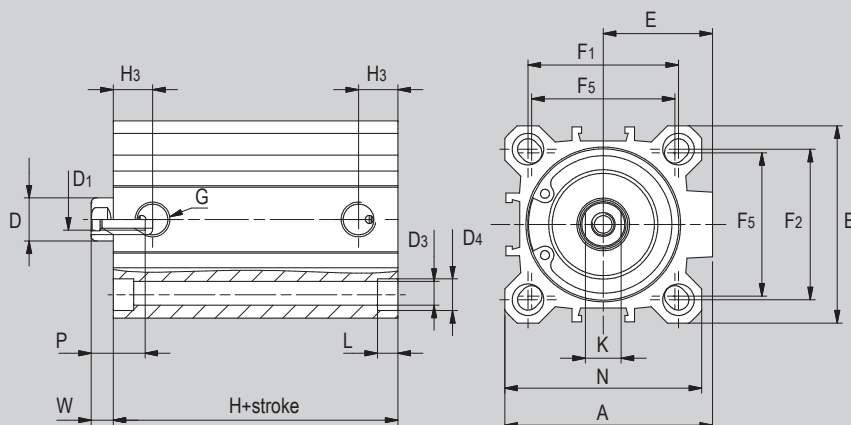
Standard dimensions



Type: **BD**
Ø 12



Type: **BD**
Ø 16 ÷ 25



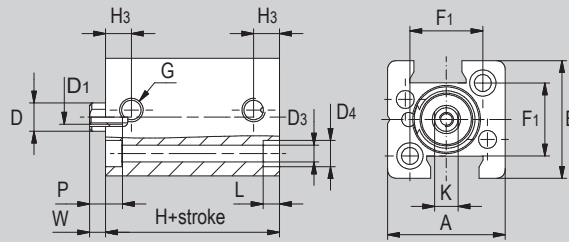
Type: **BD**
Ø 32 ÷ 100

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

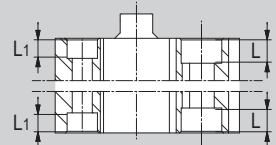
(1) For strokes 30, 40 and 50 mm, add +1 mm to dimension; (2) For strokes 40 and 50 mm, add +1 mm to dimension; (3) If quote H is less than 38,5 the dimension is 8,5; (4) If quote H is less than 39,5 the dimension is 8

Standard dimensions

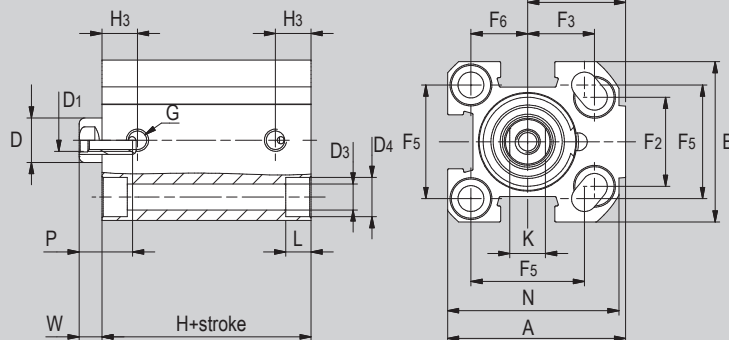
1 - CYLINDERS



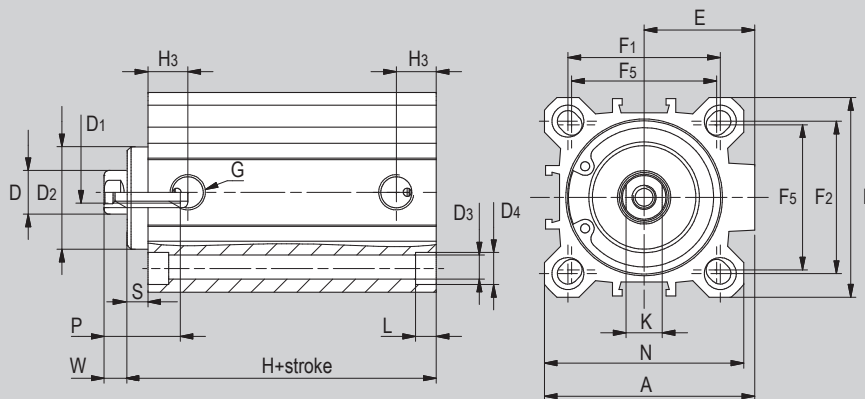
Type: **BDM**
Ø 12



Type: **BDM**
Ø 16 ÷ 25



Type: **BDM**
Ø 32 ÷ 100

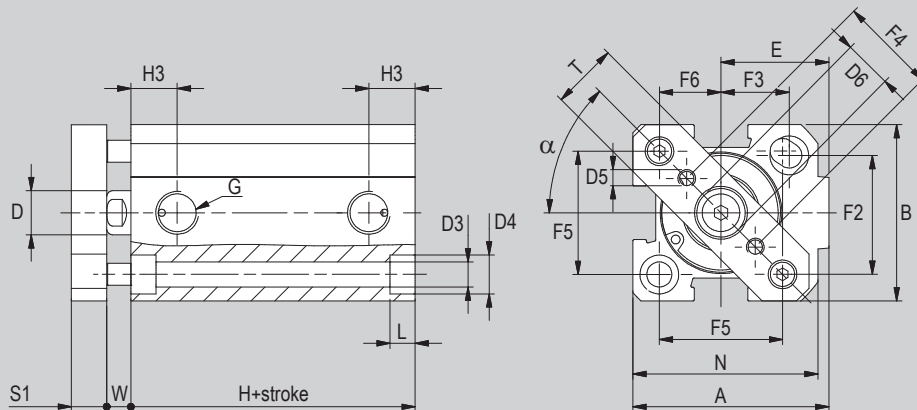


Ø (mm)	A	B	ØD	D ₁	ØD ₂	ØD ₃	ØD ₄	E	G	H	H ₃	F ₁	F ₂	F ₃	F ₅	F ₆	K	L	L ₁	N	P	S	W
12	25	25	6	M3	-	3,7	5,6	-	M5	27	5,5	15,5	-	-	-	-	5	3,5	-	-	7	-	3,5
16	34	30	8	M4	-	4,7	7,5	19	M5	32 ⁽¹⁾	8	-	18	12	20	10	6	4,6	3,5	32	11	-	4,5
20	40	36	10	M5	-	5,8	9	22	M5	32 ⁽¹⁾	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	12	-	5
25	44,5	40	10	M5	-	5,8	9	24,5	1/8"	38,5 ⁽²⁾	10,5	-	26	15,5	28	14	8	5,7	5,7	42	12	-	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	15	5	6
40	58	55	12	M6	28	5,8	9	30,5	1/8"	39,5	11 ⁽⁴⁾	42	42	-	40	-	10	5,7	-	55	15	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	17	6	7,5
63	89	80	16	M8	38,5	9	14	46	1/8"	42	11	62	62	-	60	-	13	8,8	-	80	17	8	7
80	105	100	20	M10	44	9	14	55	1/4"	46	14	82	82	-	77	-	17	9	-	100	17	10	8
100	131	124	25	M12	56	11	17,2	69	1/4"	56	16	103	103	-	94	-	22	11	-	124	22	10,5	10

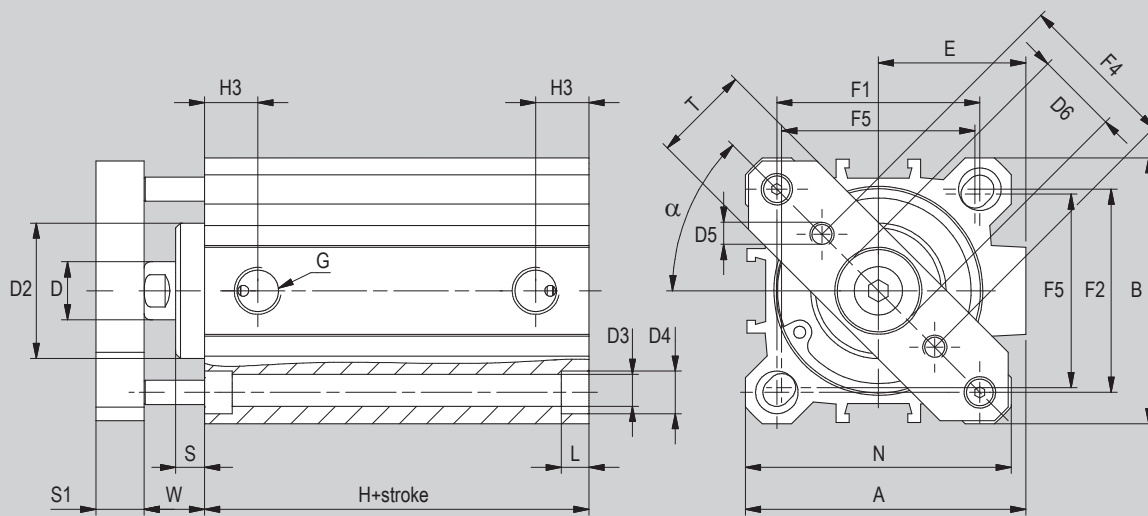
(1) For strokes ≥ 25 mm, add +6 mm to dimension; (2) For strokes ≥ 25 mm, add +1 mm to dimension.

Dimensions with options

Type: ...N
Ø 20 ÷ 25



Type: ...N
Ø 32 ÷ 100



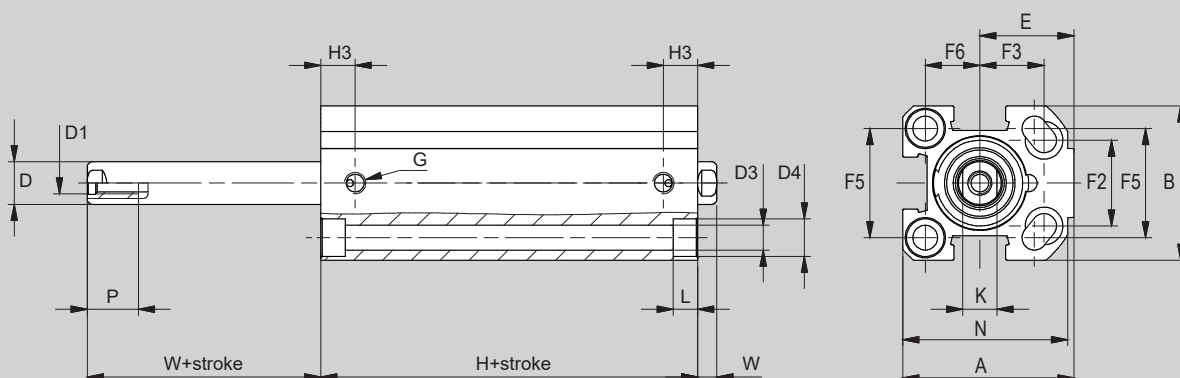
Ø (mm)	A	B	α	ØD	ØD ₂	ØD ₃	ØD ₄	D ₅	ØD ₆	E	G	H	H ₃	F ₁	F ₂	F ₃	F ₄	F ₅	F ₆	K	L	L ₁	N	S	S ₁	T	W
20	40	36	45°	10	-	5,8	9	M4	11	22	M5	32 ⁽¹⁾	8	-	20	15	20	25,5	12,7	8	5,7	5,7	38,5	-	8	15	4,5
25	44,5	40	45°	10	-	5,8	9	M4	11	24,5	1/8"	38,5 ⁽²⁾	10,5	-	26	15,5	22	28	14	8	5,7	5,7	42	-	8	15	5,5
32	51	46	41,5°	12	24,5	5,8	9	M5	17	27	1/8"	39,5	11,5	36	32	-	28	34	-	10	5,7	-	48	5	10	20	11
40	58	55	45°	12	28	5,8	9	M5	17	30,5	1/8"	39,5	11	42	42	-	33	40	-	10	5,7	-	55	6	10	20	12,5
50	70	65	45°	16	34	6,8	11	M6	22	37,5	1/8"	39,5	11,5	50	50	-	42	50	-	13	6,8	-	65	6	12	30	13,5
63	89	80	45°	16	38,5	9	14	M6	22	46	1/8"	42	11	62	62	-	50	60	-	13	8,8	-	80	8	12	30	15
80	105	100	45°	20	44	9	14	M8	28	56	1/4"	46	14	82	82	-	65	77	-	17	9	-	100	10	14	50	18
100	131	124	45°	25	56	11	17,2	M10	30	69	1/4"	56	16	103	103	-	80	94	-	22	11	-	124	10,5	14	50	20,5

(1) For strokes ≥ 25 mm, add +6 mm to dimension; (2) For strokes ≥ 25 mm, add +1 mm to dimension.

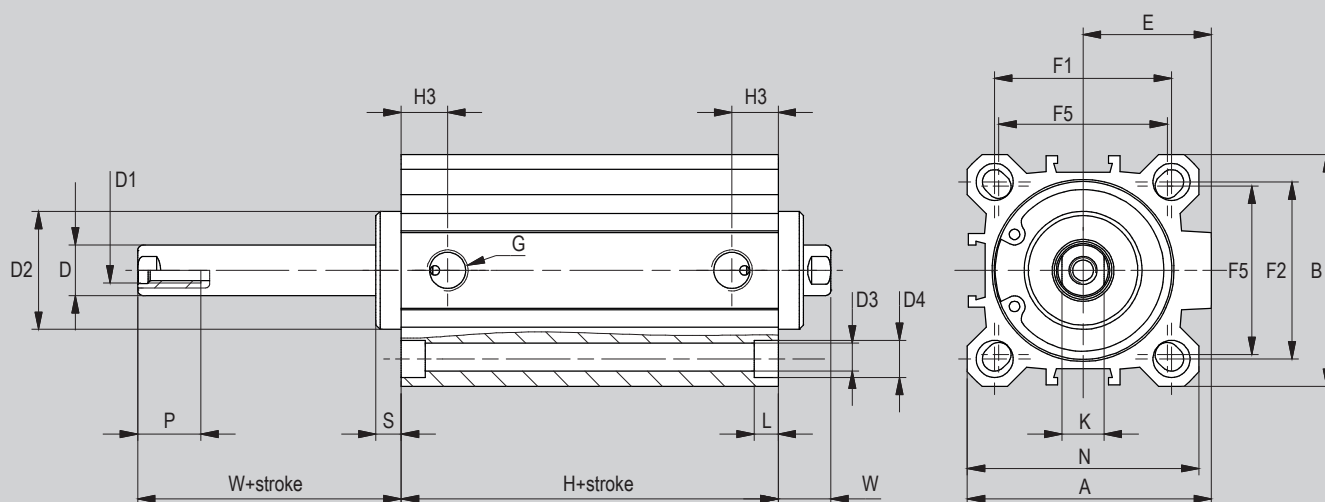
Dimensions with options

1 - CYLINDERS

Type: ...P
Ø 16 ÷ 25



Type: ...P
Ø 32 ÷ 100



Ø (mm)	A	B	ØD	D ₁	ØD ₂	ØD ₃	ØD ₄	E	G	H	H ₃	F ₁	F ₂	F ₃	F ₅	F ₆	K	L	L ₁	N	P	S	W
16	34	30	8	M4	-	4,7	7,5	19	M5	32 ⁽¹⁾	8	-	18	12	20	10	6	4,6	3,5	32	11	-	4,5
20	40	36	10	M5	-	5,8	9	22	M5	32 ⁽¹⁾	8	-	20	15	25,5	12,7	8	5,7	5,7	38,5	12	-	4,5
25	44,5	40	10	M5	-	5,8	9	24,5	1/8"	38,5 ⁽²⁾	10,5	-	26	15,5	28	14	8	5,7	5,7	42	12	-	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	15	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	15	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	17	6	13,5
63	89	80	16	M8	38,5	9	14	46	1/8"	42	11	62	62	-	60	-	13	8,8	-	80	17	8	15
80	105	100	20	M10	44	9	14	55	1/4"	46	14	82	82	-	77	-	17	9	-	100	17	10	18
100	131	124	25	M12	56	11	17,2	69	1/4"	56	16	103	103	-	94	-	22	11	-	124	22	10,5	20,5

(1) For strokes ≥ 25 mm, add +6 mm to dimension; (2) For strokes ≥ 25 mm, add +1 mm to dimension.

Rod nipple N..AQB

	For cylinder Ø mm	Code	Item	Filetto 1	Filetto 2
	12	040079	N6-3AQB	M6x1	M3x0,5
	16	040080	N6-4AQB	M6x1	M4x0,7
	20-25	040081	N8-5AQB	M8x1,25	M5x0,8
	32-40	040082	N10-6AQB	M10x1,25	M6x1
	50-63	040083	N12-8AQB	M12x1,25	M8x1,25
	50-63	040084	N16-8AQB	M16x1,5	M8x1,25
	80	040085	N16-10AQB	M16x1,5	M10x1,5
	100	040086	N20-12AQB	M20x1,5	M12x1,75

Female clevis* with clip FF..ISO

	For cylinder Ø mm	Code	Item	Compliance
	12-16	041002	FF06ISO/DIN	
	20-25	041003	FF08ISO/DIN	
	32-40	041004	FF10ISO	
	50-63	041005	FF12ISO	
	50-63-80	041006	FF16ISO	
	100	041007	FF20ISO	

*Matching only with rod nipple N..AQB mounted

Female clevis* with pin and seeger FFP..ISO

	For cylinder Ø mm	Code	Item	Compliance
	12-16	-	FFP06ISO/DIN	
	20-25	-	FFP08ISO/DIN	
	32-40	041051	FFP10ISO	
	50-63	041040	FFP12ISO	
	50-63-80	041013	FFP16ISO	
	100	041017	FFP20ISO	

*Matching only with rod nipple N..AQB mounted

Female clevis* (body only) FFN..ISO

	For cylinder Ø mm	Code	Item	Compliance
	12-16	041011	FFP06ISO/DIN	
	20-25	041018	FFP08ISO/DIN	
	32-40	041014	FFN10ISO	
	50-63	041016	FFN12ISO	
	50-63-80	041012	FFN16ISO	
	100	041015	FFN20ISO	

*Matching only with rod nipple N..AQB mounted

Bearing head (DIN 648K) with female thread* RF..SE

	For cylinder Ø mm	Code	Item	Compliance
	12-16	041552	RF6SE	
	20-25	041553	RF8SE	
	32-40	041554	RF10SE	
	50-63	041555	RF12SE	
	50-63-80	041557	RF16SE	
	100	041559	RF20SE	

*Matching only with rod nipple N..AQB mounted

Bearing head (DIN 648K) with male thread RM..SE

	For cylinder Ø mm	Code	Item	Compliance
	16	041500	RM4SE	
	20-25	041501	RM5SE	
	32-40	041502	RM6SE	
	50-63	041503	RM8SE	
	80	041550	RM10SE	
	100	041514	RM12SE	

Axial articulated coupling* RBI..

	For cylinder Ø mm	Code	Item	Compliance
	12-16	041602	RBI6	-
	20-25	041603	RBI8	
	32-40	041604	RBI10	
	50-63	041605	RBI12	
	50-63-80	041607	RBI16	
	100	041609	RBI20	

*Matching only with rod nipple N..AQB mounted

Angular articulated coupling* RBL..

	For cylinder Ø mm	Code	Item	Compliance
	12-16	041652	RBL6	-
	20-25	041653	RBL8	
	32-40	041654	RBL10	
	50-63	041655	RBL12	
	50-63-80	041657	RBL16	
	100	041659	RBL20	

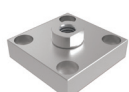
*Matching only with rod nipple N..AQB mounted

Self-aligning articulated coupling* GB..

	For cylinder Ø mm	Code	Item	Compliance
	12-16	041702	GB010	-
	20-25	041703	GB020	
	32-40	041704	GB040	
	50-63	041706	GB060	
	50-63-80	041708	GB100	
	100	041709	GB120	

*Matching only with rod nipple N..AQB mounted

Self-aligning coupling* GC..

	For cylinder Ø mm	Code	Item	Compliance
	32-40	041722	GCM10x1,25	-
	50-63	041723	GCM12x1,25	
	50-63-80	041724	GCM16x1,5	
	100	041725	GCM20x1,5	

*Matching only with rod nipple N..AQB mounted

Back head with integrated rear eye* in aluminium CM..ALB

	For cylinder Ø mm	Code	Item	Compliance
	16	040070	CM16ALB	-
	20	040071	CM20ALB	
	25	040072	CM25ALB	
	32	040073	CM32ALB	
	40	040074	CM40ALB	
	50	040075	CM50ALB	
	63	040076	CM63ALB	
	80	040077	CM80ALB	
	100	040078	CM100ALB	

Accessory to be ordered together with the cylinder

High foot in aluminium P..ALB

	For cylinder Ø mm	Code	Item	Compliance
	16	040087	P16ALB	-
	20	040088	P20ALB	
	25	040095	P25ALB	
	32	040089	P32ALB	
	40	040090	P40ALB	
	50	040091	P50ALB	
	63	040092	P63ALB	
	80	040093	P80ALB	
	100	040094	P100ALB	

Stainless Steel seeger for front head SGX..

	For cylinder Ø mm	Code	Item	Compliance
	25	171315	SGX025	-
	32	171316	SGX032	
	40	171317	SGX040	
	50	171318	SGX050	
	63	171319	SGX063	
	80	171320	SGX080	
	100	171321	SGX100	

Bracket AS108 (for magnetic reed switches T groove)

	For cylinder Ø mm	Code	Item	Cylinder matching
	12 ÷ 100	072915	AS108	BSM BDM

Magnetic reed switch T groove ASV..

	For cylinder Ø mm	Code	Item	Cylinder matching
	12 ÷ 100	070946	ASV1C525	BSM* BDM*
		071863	ASV1C550	
		071864	ASV1C51K	
		071189	ASV1C5M8	
		073639	ASV4D225	
		070246	ASV4D2M8	
		074900	ASV7N225	
		070247	ASV7N2M8	
		070372	ASV7M2M8	
		072918	ASV1H525	

*With bracket AS.. for magnetic reed switches T groove

ATEX magnetic reed switch T groove MK..

	For cylinder Ø mm	Code	Item	Compliance	Cylinder matching
	12 ÷ 100	071120	MK500A	Ex 3D	BSM* BDM*
		071108	MK502A	Ex II1G	

*With bracket AS.. for magnetic reed switches T groove