

Features and certifications

Series of compact cylinders not conforming to standards, available in bores from Ø 6 to 32, double acting, magnetic or non magnetic. The barrel with grooves allows the magnetic versions to mount magnetic reed switches directly in the tube.
Supplied as standard in compliance with Reach and RoHS directives.

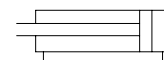


Type DU Ø 16 ÷ 32

from page 1.18.20



Compact cylinders not conforming to standards, available in bores from Ø 16 to 32, double acting, non magnetic.

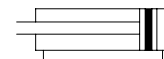


Type DUM Ø 6 ÷ 32

from page 1.18.20



Compact cylinders not conforming to standards, available in bores from Ø 16 to 32, double acting, magnetic.
The barrel with grooves allows mounting magnetic reed switches directly.



Options		
Description	Symbol	Suffix
Anti-rotating plate (available from Ø 16)		N
Special versions on request		/S

The options, when this is possible, can be combined with each other. For options matching and code key, see the tables below.

Options matching			
Series	Bore	Model	Standard options matching
			N (Ø16÷32)
DU	Ø 16 ÷ 32	Standard	●
	Ø 16 ÷ 32	Anti-rotating plate (N)	
DUM	Ø 6 ÷ 32	Standard	●
	Ø 16 ÷ 32	Anti-rotating plate (N)	

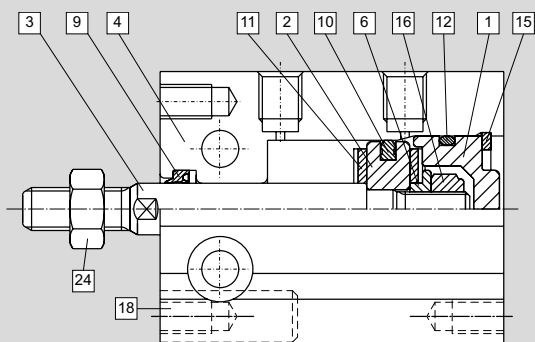
Key
● allowed matching; – not allowed matching

Code key						
Bore	/	Stroke	Type	Options	/	Special version
20	/	30	DU	N	/	●
Ø 6, 10, 16, 20, 25, 32		See table on page 1.18.20	DU Double acting Non Magnetic	N		S
			DUM Double acting Magnetic			

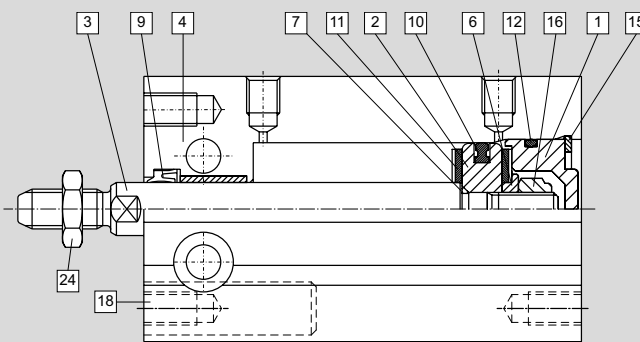
How to order		Notes
Bore 20	/	For further information on options and their matching, see tables above.
Stroke 30		
Type DU		
Options N		

Standard materials

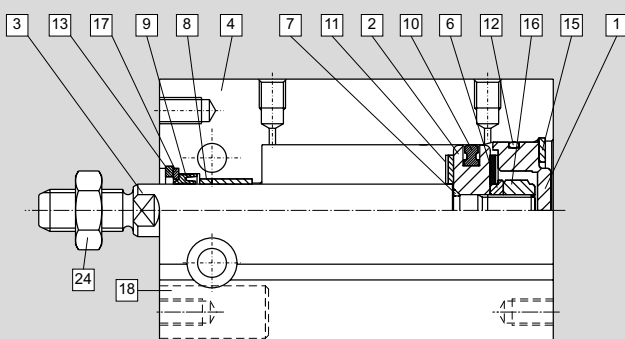
Type: DU



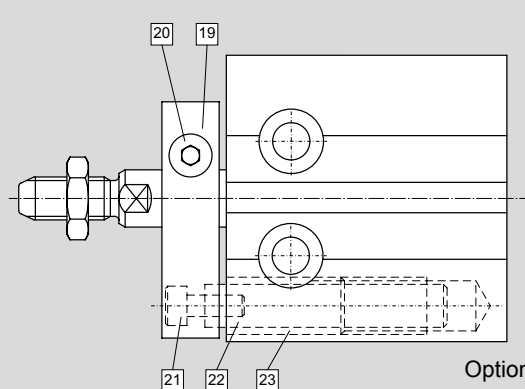
Bore: Ø 16



Bore: Ø 20



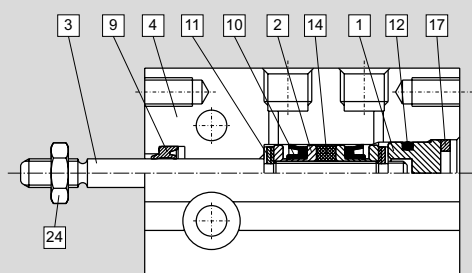
Bore: Ø 25 ÷ 32



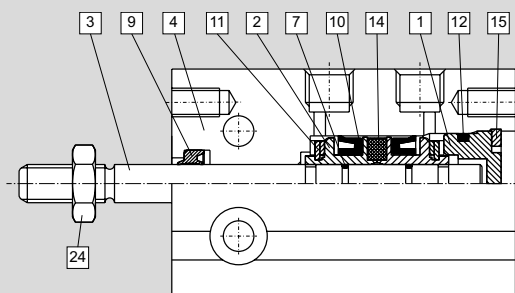
Option N

Position	Description	Materials					
		Ø 6	Ø 10	Ø 16	Ø 20	Ø 25	Ø 32
1	End cover	Hard anodised aluminium					
2	Piston	Brass		Hard anodised aluminium			
3	Rod	Stainless Steel			Carbon steel		
4	Tube	Hard anodised aluminium					
5	Magnet holder	Hard anodised aluminium					
6	T-washer	Nickel-plated carbon steel					
7	O-ring	NBR					
8	Oilless bearing	Oil-impregnated sintered alloy					
9	Rod packing	Polyurethane (PU)			NBR		
10	Piston seal	NBR					
11	Rubber lining	NBR					
12	Cylinder gasket	NBR					
13	Retaining ring	Nickel-plated carbon steel					
14	Magnet	Magnetic material					
15	Retaining ring	Nickel-plated carbon steel					
16	Piston nut	Galvanized carbon steel					
17	Rod washer	Stainless Steel					
18	Screw plug	Hard anodised aluminium					
19	Guide plate	Hard anodised aluminium					
20	Screw	Nickel-plated carbon steel					
21	Screw	Nickel-plated carbon steel					
22	Guide rod	Carbon steel					
23	Oilless bearing	Oil-impregnated sintered alloy					
24	Rod and nut	Stainless Steel		Nickel-plated carbon steel			

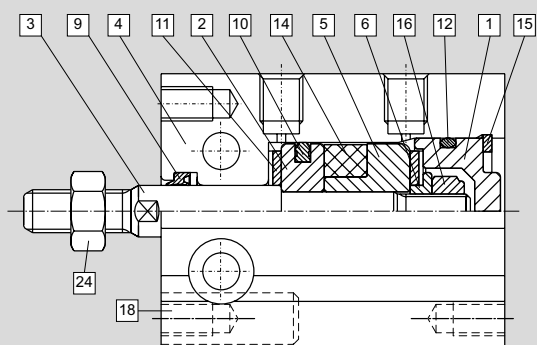
Type: DUM



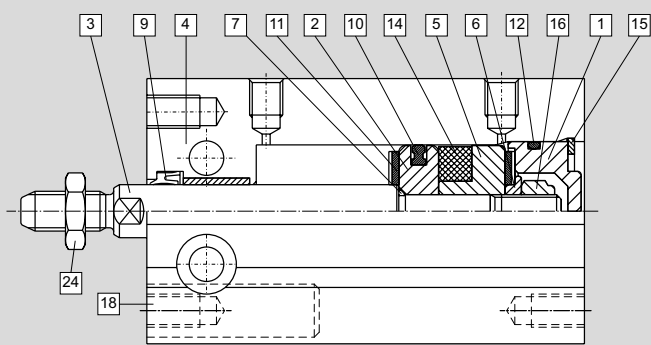
Bore: Ø 6



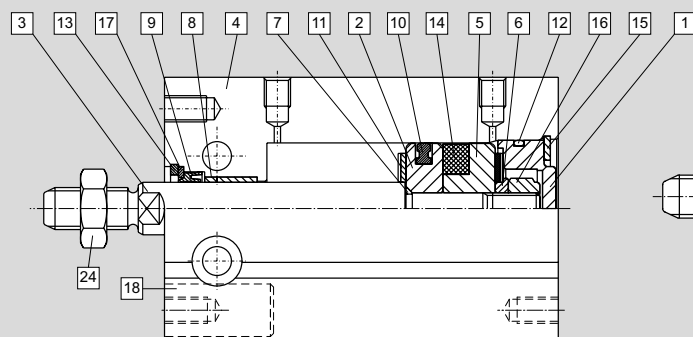
Bore: Ø 10



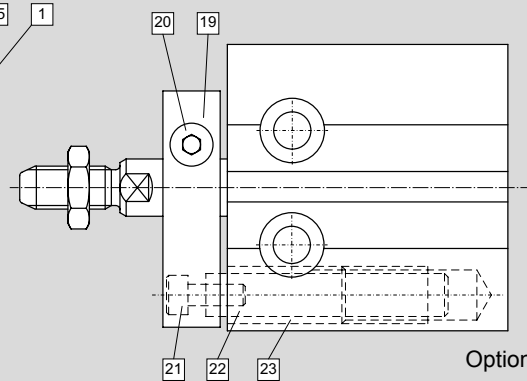
Bore: Ø 16



Bore: Ø 20



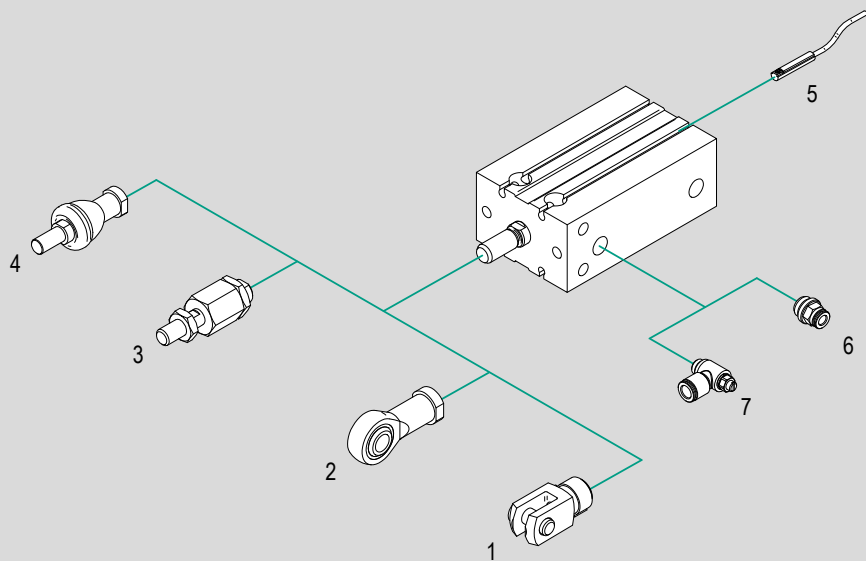
Bore: Ø 25 ÷ 32



Option N

Accessories

1 - CYLINDERS



N.	Cylinder bore	Item	Description	Compliance	Matching		Code page	Data sheet page
					DU	DUM		
1	Ø 10 ÷ 32	FF..DIN	DIN female clevis with clip	DIN 71752 UNI 1676	●	●	1.18.90	1.86.1
		FFP..DIN	DIN female clevis with pin and seeger		●	●		1.86.2
		FFN..DIN	DIN female clevis (body only)		●	●		
2	Ø 20 ÷ 32	RF..SE	Bearing head (DIN 648K) with female thread	ISO 8139	●	●		1.90.1
3	Ø 10 ÷ 32	GB..	Bearing - Self-aligning articulated coupling		●	●		1.90.10
4	Ø 16 ÷ 32	RBI..	Bearing - Axial articulated coupling		●	●		1.90.20
	Ø 16 ÷ 25	RBL..	Bearing - Angular articulated coupling		●	●		1.90.30
5	Ø 6 ÷ 32	ASC..	Magnetic reed switch C groove		-	●		1.110.30
6	Ø 6 ÷ 32	R..	Push-in fittings	-	●	●	4.2.1	
7	Ø 6 ÷ 32	V..C	Flow controls, for cylinders		●	●	4.94.1	

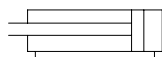
Key
● matching accessory; - not matching accessory



Main features

16 ÷ 32

Bores Ø



Double acting
Non magnetic

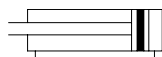
DU

Type



6 ÷ 32

Bores Ø



Double acting
Magnetic

DUM

Type



Technical data

Bore Ø mm		6	10	16	20	25	32
Fluid		Filtered compressed air with or without lubrication. Lubrication, if started, must be continued.					
Pressure range		3 ÷ 7 bar	1,5 ÷ 7 bar		1 ÷ 7 bar		
Temperature range		-10°C ÷ +60°C					
Port		M5					1/8"
Strokes	DU	-		5 ÷ 30 mm	5 ÷ 50 mm		
	DUM	5 ÷ 30 mm			5 ÷ 50 mm		
Rod thread	DU	-		M5	M6	M8	M10
	DUM	M3	M4	M5	M6	M8	M10

Standard strokes

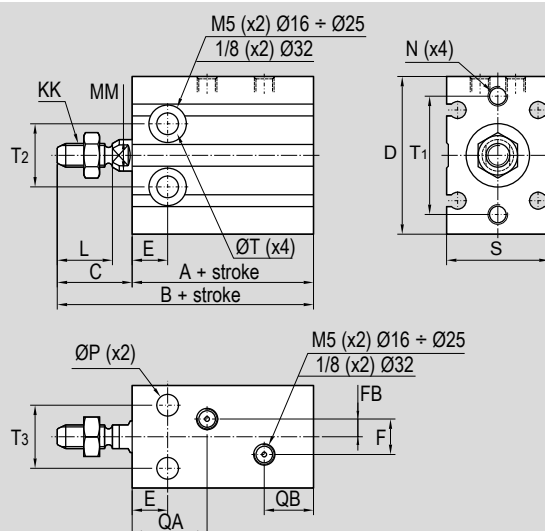
Stroke mm	DU Bore Ø mm			
	16	20	25	32
5				
10				
15				
20				
25				
30				
40				
50				

Stroke mm	DUM Bore Ø mm					
	6	10	16	20	25	32
5						
10						
15						
20						
25						
30						
40						
50						

Key

□ Standard stroke

Standard dimensions

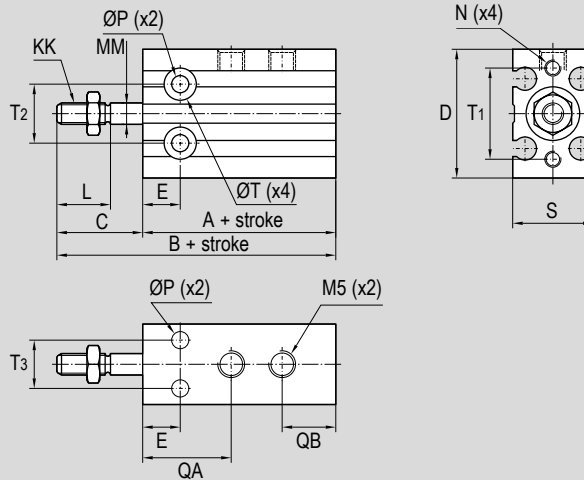


Type: **DU**
Ø 16 ÷ 32

Ø (mm)	A	B	C	D	E	F	FB	L	KK	ØMM	N	ØP	QA	QB	S	T	T ₁	T ₂	T ₃
16	30	46	16	32	7	4	2	12,5	M5	6	M4	4,3	14	11,5	20	Ø 7,6 depth 6,5	25	14	12
20	36	55	19	40	9	9	4,5	14	M6	8	M5	5,2	18	12,5	26	Ø 9 depth 7,6	30	16	16
25	40	63	23	50	10	9	4,5	18	M8	10	M5	5,5	21,5	12,5	32	Ø 9,5 depth 9	38	20	20
32	42	69	27	62	11	13,5	4,5	22	M10	12	M6	6,6	23	13	40	Ø 11 depth 11	48	24	24

Standard dimensions

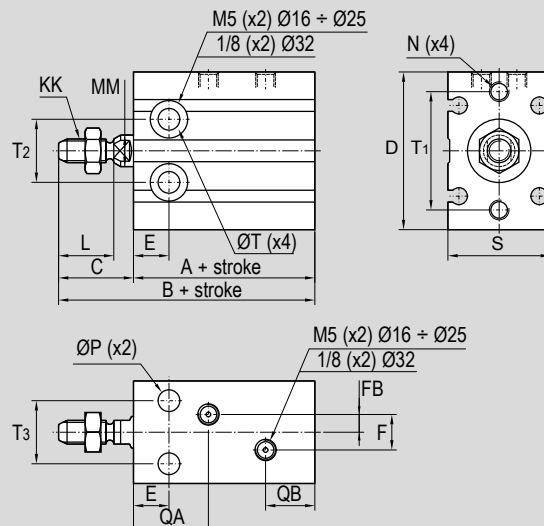
Type: **DUM**
Ø 6 ÷ 10



Ø (mm)	A	B	C	D	E	L	KK	ØMM	N	ØP	QA	QB	S	T	T ₁	T ₂	T ₃
6	33	46	13	22	7	7	M3	3	M3	3,2	15	10	13	Ø 6 depth 4.8	17	10	7
10	36	52	16	24	7	10	M4	4	M3	3,2	15	11	18	Ø 6 depth 5	17	10	7

Standard dimensions

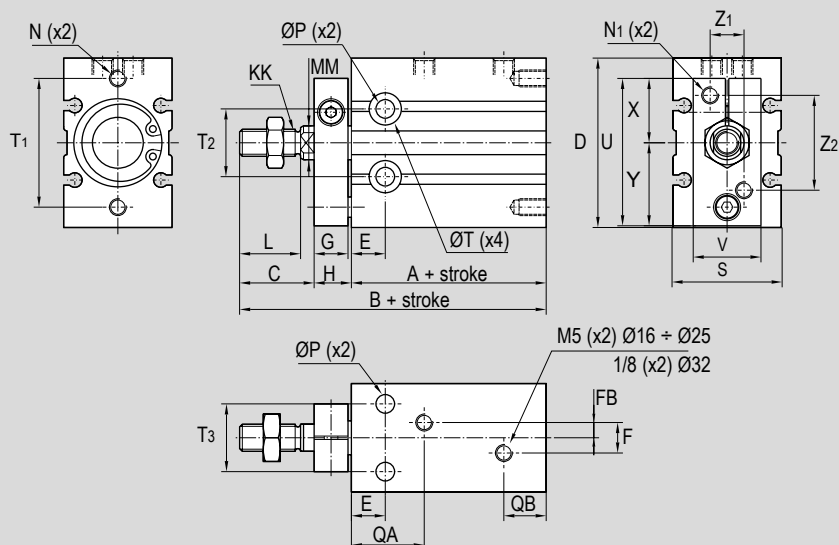
Type: **DUM**
Ø 16 ÷ 32



Ø (mm)	A	B	C	D	E	F	FB	L	KK	ØMM	N	ØP	QA	QB	S	T	T ₁	T ₂	T ₃
16	40	56	16	32	7	4	2	12,5	M5	6	M4	4,3	14	11,5	20	Ø 7,6 depth 6,5	25	14	12
20	46	65	19	40	9	9	4,5	14	M6	8	M5	5,2	18	12,5	26	Ø 9 depth 7,6	30	16	16
25	50	73	23	50	10	9	4,5	18	M8	10	M5	5,5	21,5	12,5	32	Ø 9,5 depth 9	38	20	20
32	52	79	27	62	11	13,5	4,5	22	M10	12	M6	6,6	23	13	40	Ø 11 depth 11	48	24	24

Dimensions with options

1 - CYLINDERS



Type: ...N
Ø 16 ÷ 32

Ø (mm)	A		B		C	D	E	F	FB	G	H	L	KK	ØMM	N	N ₁	ØP
	DU	DUM	DU	DUM													
16	30	40	56	66	17	32	7	4	2	8	9	12,5	M5	6	M4	M4	4,3
20	36	46	65	75	20	40	9	9	4,5	8	9	14	M6	8	M5	M4	5,2
25	40	50	73	83	22	50	10	9	4,5	10	11	18	M8	10	M5	M5	5,5
32	42	52	84	94	29	62	11	13,5	4,5	12	13	22	M10	12	M6	M5	6,5

Ø (mm)	T	T ₁	T ₂	T ₃	QA	QB	S	U	V	X	Y	Z ₁	Z ₂
16	Ø 7,6 depth 6,5	25	14	12	14	11,5	20	28	13	12,5	15,5	6	18
20	Ø 9 depth 7,6	30	16	16	18	12,5	26	33	16	13,5	19,5	8	20
25	Ø 9,5 depth 9	38	20	20	21,5	12,5	32	43,5	20	19	24,5	10	28
32	Ø 11 depth 11	48	24	24	23	13	40	51,5	24	21	30,5	12	32