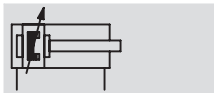
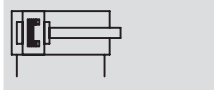


Standard cylinders DSNU, ISO 6432

Technical data

FESTO

Function



Ø - Diameter
8 ... 25 mm

l - Stroke length
1 ... 500 mm

Variant

CT-free

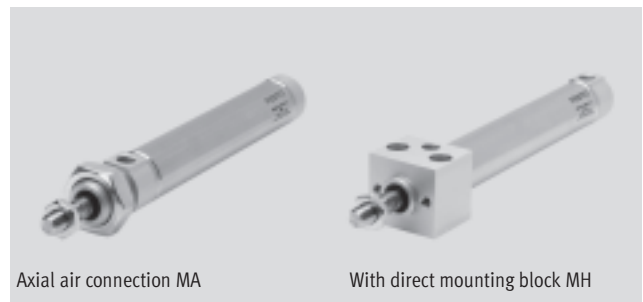
Additional variants

→ 1 / 1.1-15



Basic version

Lateral air connection MQ



Axial air connection MA

With direct mounting block MH

ISO standard cylinders
ISO 6432

1.1

General technical data						
Piston Ø	8	10	12	16	20	25
Pneumatic connection	M5	M5	M5	M5	G1/8	G1/8
Piston rod thread	M4	M4	M6	M6	M8	M10x1.25
Constructional design	Piston					
	Piston rod					
	Cylinder barrel					
Cushioning	Flexible cushioning rings/plates at both ends					
	-		Pneumatic cushioning adjustable at both ends			
Cushioning length (PPV) [mm]	-		9	12	15	17
Position sensing	For proximity sensing					
Type of mounting	Direct mounting (MH variant only)					
	Via accessories					
Assembly position	Any					

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

Operating conditions						
Piston Ø	8	10	12	16	20	25
Operating medium	Filtered compressed air, lubricated or unlubricated					
Operating pressure [bar]	Basic version	1.5 ... 10 ¹⁾			1 ... 10	
	S10	-	-	1.5 ... 10	1 ... 10	
	S11	-	-	0.45 ... 10	0.3 ... 10	

1) DSNU-12 ...-PPV (cushioning adjustable at either end): 2 ... 10 bar

Standard cylinders DSNU, ISO 6432

Technical data

FESTO

Ambient conditions						
Standard cylinder	Basic version	CT	S6	S10	S11	R3
Ambient temperature ¹⁾ [°C]	-20 ... +80		0 ... +120	+5 ... +80		-20 ... +80
Corrosion resistance class CRC ²⁾	2	2	2	2	2	3

1) Note operating range of proximity sensors

2) Corrosion resistance class 2 according to Festo standard 940 070

Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Corrosion resistance class 3 according to Festo standard 940 070

Components requiring higher corrosion resistance. External visible parts in direct contact with industrial atmospheres or media such as solvents and cleaning agents, with a predominantly functional requirement for the surface

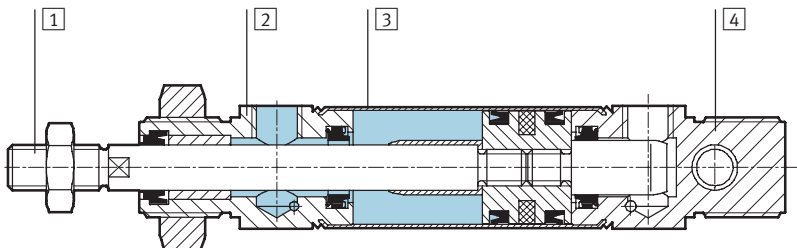
Forces [N] and impact energy [J]						
Piston Ø	8	10	12	16	20	25
Theoretical force at 6 bar, advancing	30	47	68	121	189	295
Theoretical force at 6 bar, retracting	23	40	51	104	158	247
Impact energy at the end positions	0.03	0.05	0.07	0.15	0.20	0.30

Speed [mm/s]				
Piston Ø		16	20	25
Speed with judder-free running, S10 horizontal, without load, at 6 bar		10 ... 100		
Minimum speed, advancing S11		2.7	5.3	<1 ¹⁾
Minimum speed, retracting S11		3.2	4.7	<1 ¹⁾

1) Measurements of less than 1 mm/s were not conducted

Weights [g]						
Piston Ø	8	10	12	16	20	25
Product weight with 0 mm stroke	34.6	37.3	75	89.9	186.8	238
Additional weight per 10 mm stroke	2.4	2.7	4	4.6	7.2	11

Materials						
Sectional view						



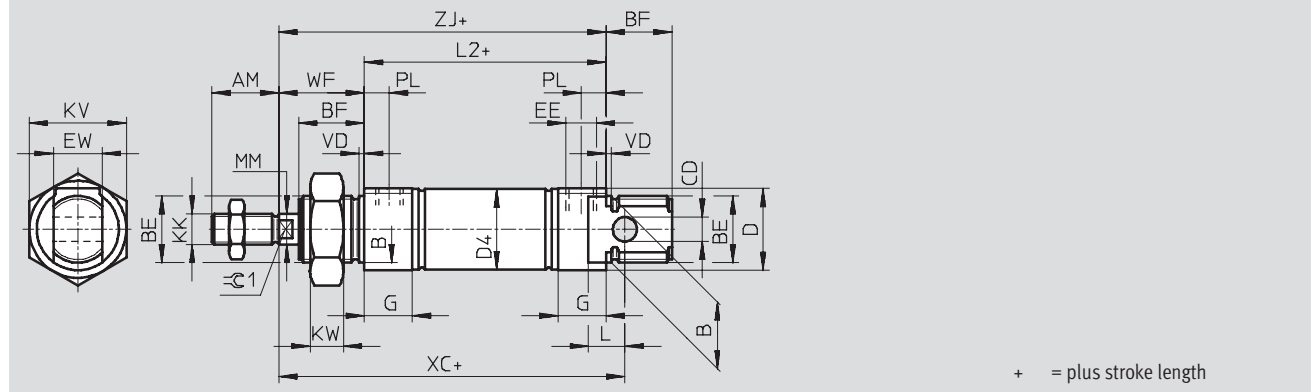
Standard cylinder	Basic version	R3	CT	S6	S10	S11
1 Piston rod	High-alloy stainless steel					
2 Bearing cap	Wrought aluminium alloy					
3 Cylinder barrel	High-alloy stainless steel					
4 End cap	Wrought aluminium alloy					
– Seals	Polyurethane, nitrile rubber			Fluoro rubber		

Standard cylinders DSNU, ISO 6432

Technical data

FESTO

Dimensions Download CAD data → www.festo.com/en/engineering
Basic version



Ø [mm]	AM	B Ø h9	BE	BF	CD Ø E10	D Ø	D4 Ø	EE	EW	G	KK	KV
8	12	12	M12x1.25	12	4	15	9.3	M5	8	10	M4	19
10							11.3					
12	16	16	M16x1.5	17	6	20	13.3		12		M6	24
16							17.3					
20	20	22	M22x1.5	20	8	27	21.3	G½	16	16	M8	32
25	22			22			26.5				M10x1.25	

Ø [mm]	KW	L	L2	MM Ø	PL	T0	VD	WF	XC ±1	ZJ	≈1
8	6	6	46	4	6	18	2	16	64	62	–
10											
12	8	9	50	6		23		22	75	72	5
16			56						82	78	
20	11	12	68	8	8.2	31		24	95	92	7
25			69.5	10			28		104	97.5	9

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.

ISO standard cylinders
ISO 6432

1.1

Standard cylinders DSNU, ISO 6432

Technical data

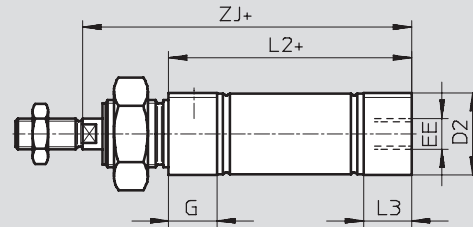
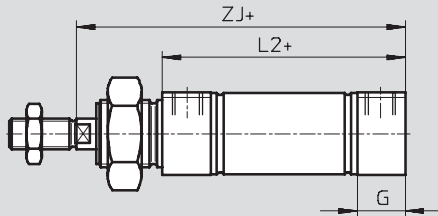
FESTO

Dimensions

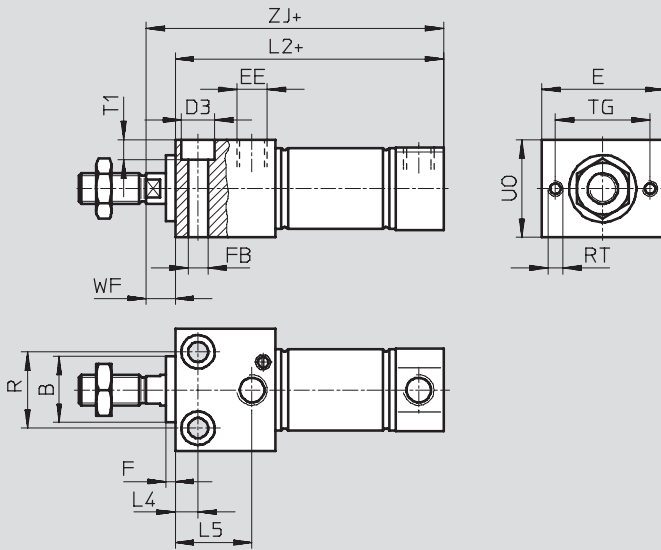
Download CAD data → www.festo.com/en/engineering

MQ – Lateral air connection

MA – Axial air connection



MH – With direct mounting block



+ = plus stroke length

Ø [mm]	B Ø h9	D2 Ø	D3 Ø	E	EE	F	FB Ø	G	L2		
									-MQ	-MA	-MH
8	12	10.5	6	24	M5	3	3.4	10	46	43.6	53.5
10		12.5								43.1	53.8
12	16	14.5	8	30			4.5	16	50	47.7	62
16		17.5								56	53.7
20	22	21.7	10	40	G1/8	5.5		68	66.5	81.5	
25		26.7	11			6.6		69.5	68.5	86.2	

Ø [mm]	L3	L4	L5	R	RT	TG	T1	UO	WF	ZJ		
										-MQ	-MA	-MH
8	7.6	5	14	12	M3	18	3.4	16	8	62	59.6	61.5
10	7.1										59.1	61.8
12	7.7	6	18.1	16	M4	23	4.5	22	10	72	69.7	72
16										78	75.7	77.8
20	14.5	7.5	22.4	22	M5	31	5.5	28		92	90.5	91.5
25	14		25.2	25			6.6	32		97.5	96.5	97.2

• Note: This product conforms with the ISO 1179-1 standard and the ISO 228-1 standard.