

Standard cylinders DSBG, to ISO 15552

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Standard cylinders DSBG, to ISO 15552

Key features

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At a glance



DIN



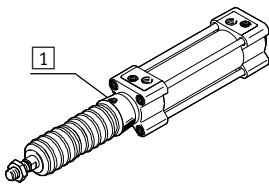
- Standards-based cylinders to ISO 15552 (corresponds to the withdrawn standards ISO 6431, DIN ISO 6431, VDMA 24 562, NF E 49 003.1 and UNI 10290)

- Sturdy tie rod design
- Double-acting
- For contactless position sensing
- Optionally with protection against rotation
- An extensive range of accessories makes it possible to install the cylinder virtually anywhere

- Three types of cushioning available:
 - P cushioning: elastic cushioning rings/pads at both ends
 - PPS cushioning: pneumatic cushioning, self-adjusting at both ends
 - PPV cushioning: pneumatic cushioning, adjustable at both ends

- The variants can be configured according to individual needs thanks to the modular product system
- High flexibility thanks to the wide range of variants

DSBG-...P2 – With protective bellows kit DADB, to ISO 15552



The protective bellows kit is a leak-free system. To prevent unwanted media from being drawn in, the supply and exhaust air must be ducted via a venting hole in the connection part

1

The kit protects the piston rod, seal and bearings against a wide variety of media, for example:

- Dust
- Chippings
- Oil
- Grease
- Fuel

Ordering the protective bellows kit

An extended piston rod is absolutely essential if a protective bellows kit is to be used.

The protective bellows kit can be ordered via the modular product system or as an accessory. The following must be noted in this regard:

Ordering via the modular product system:

The corresponding protective bellows kit is automatically supplied when the feature P2 is selected. The required piston rod extension is automatically taken into consideration. This means that there is no need to specify a value in the feature ...E.

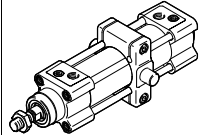
Ordering as an accessory:

If the protective bellows kit is ordered as an accessory, the required value → must be entered for the feature ...E in the modular product system.

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Key features

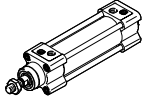
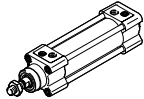
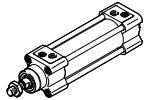
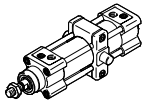
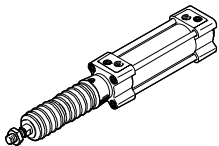
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Variants from the modular product system		
Symbol	Features	Description
	Q Square piston rod	Protection against rotation. For correctly oriented feeding
	L Low friction	The special seals considerably reduce system wear. This corresponds to a considerably lower response pressure. Seal contains silicone grease
	U Constant, slow movement	Suitable for slow stroke movements at a constant, judder-free speed over the full stroke of the cylinder. Seal contains silicone grease
	T Through piston rod	For working at both ends with the same force in the forward and return stroke, for attaching external stops
	F Female piston rod thread	–
	R3 High corrosion protection	All external cylinder surfaces comply with corrosion resistance class 3 to Festo standard 940 070. The piston rod is made from corrosion and acid-resistant steel
	T1 Heat-resistant seals	Temperature range 0 ... +120 °C
	T3 Low temperature	Temperature range –40 ... +80 °C
	T4 Heat-resistant seals	Temperature range 0 ... +150 °C
	A2 Wiper seal variant	Hard wiper seal: The cylinder is equipped with a hard-chrome plated piston rod and a rigid wiper seal, which protects against dry, dusty media
	A3 Wiper seal variant	Unlubricated operation: Cleaning processes degrease the piston rod. A special piston rod seal designed for unlubricated operation permits a longer service life compared to the standard seal
	...E Extended piston rod	–
	...L Extended male piston rod thread	–
	...V Swivel mounting position	Attached swivel mounting

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Product range overview

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Function	Design	Type	Piston Ø	Stroke	Through piston rod	Female piston rod thread	Cushioning		
			[mm]	[mm]					
Double-acting	DSBG-...,								
		DSBG-...	32, 40, 50, 63, 80, 100, 125	1 ... 2,800	■	■	■	■	■
	DSBG-...-Q – With protection against rotation								
		DSBG-...-Q	32, 40, 50, 63, 80, 100	1 ... 1,500	■	■	■	■	■
	DSBG-...-L/-U – With special running characteristics								
		DSBG-...-L	32, 40, 50, 63, 80, 100	1 ... 500	■	■	■	–	–
		DSBG-...-U	32, 40, 50, 63, 80, 100, 125	1 ... 500	■	■	■	–	■
	DSBG-...-...V – With swivel mounting position								
		DSBG-...-...V	32, 40, 50, 63, 80, 100, 125	10 ... 2,800	■	■	■	■	■
	DSBG-...-P2 – With bellows								
	DSBG-...-P2	32, 40, 50, 63, 80, 100	10 ... 500	■	■	■	■	■	

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Product range overview

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Type	Position sensing	High corrosion protection	Temperature range 0 ... +120 °C	Temperature range -40 ... +80 °C	Temperature range 0 ... +150 °C	Wiper seal variant		Swivel mounting position	Piston rod extension	Piston rod thread extension
	A	R3	T1	T3	T4	A2	A3	...V	...E	...L
DSBG-...										
DSBG-...	■	■	■	■	■	■	■	■	■	■
DSBG-...-Q – With protection against rotation										
DSBG-...-Q	■	■	■	-	-	-	-	■	■	■
DSBG-...-L/-U – With special running characteristics										
DSBG-...-L	■	-	-	-	-	-	-	■	■	■
DSBG-...-U	■	-	-	-	-	-	-	■	■	■
DSBG-...-...V – With swivel mounting position										
DSBG-...-...V	■	-	■	■	■	■	■	■	■	■
DSBG-...-P2 – With bellows										
DSBG-...-P2	■	■	-	-	-	-	-	■	■	■

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Type codes

		DSBG	-		-	32	-	50	-		-		-	PPV	A
Type															
Double-acting															
DSBG	Standard cylinder														
Protection against rotation															
-	Without protection against rotation														
Q	With protection against rotation														
Running characteristics															
-	Standard														
L	Low friction														
U	Constant, slow movement														
Piston Ø [mm]															
Stroke [mm]															
Piston rod type															
-	At one end														
T	Through piston rod														
Piston rod thread type															
-	Male thread														
F	Female thread														
Cushioning															
P	Elastic cushioning rings/pads at both ends														
PPS	Pneumatic cushioning, self-adjusting at both ends														
PPV	Pneumatic cushioning, adjustable at both ends														
Position sensing															
A	Via proximity sensor														

Standard cylinders DSBG, to ISO 15552

Type codes

-	N3					-		-		-	
---	----	--	--	--	--	---	--	---	--	---	--

Standard	
-	Based on ISO 15552
N3	Conforms to ISO 15552

Corrosion protection	
-	Standard
R3	High corrosion protection

Temperature range	
-	Standard
T1	0 ... +120 °C
T3	-40 ... +80 °C
T4	0 ... +150 °C

Particle protection	
-	Standard
P2	Bellows on bearing cap

Wiper seal variant	
-	None
A2	Hard wiper seal
A3	For unlubricated operation

Swivel mounting position	
-	None
...V	0 ... 2,800 mm

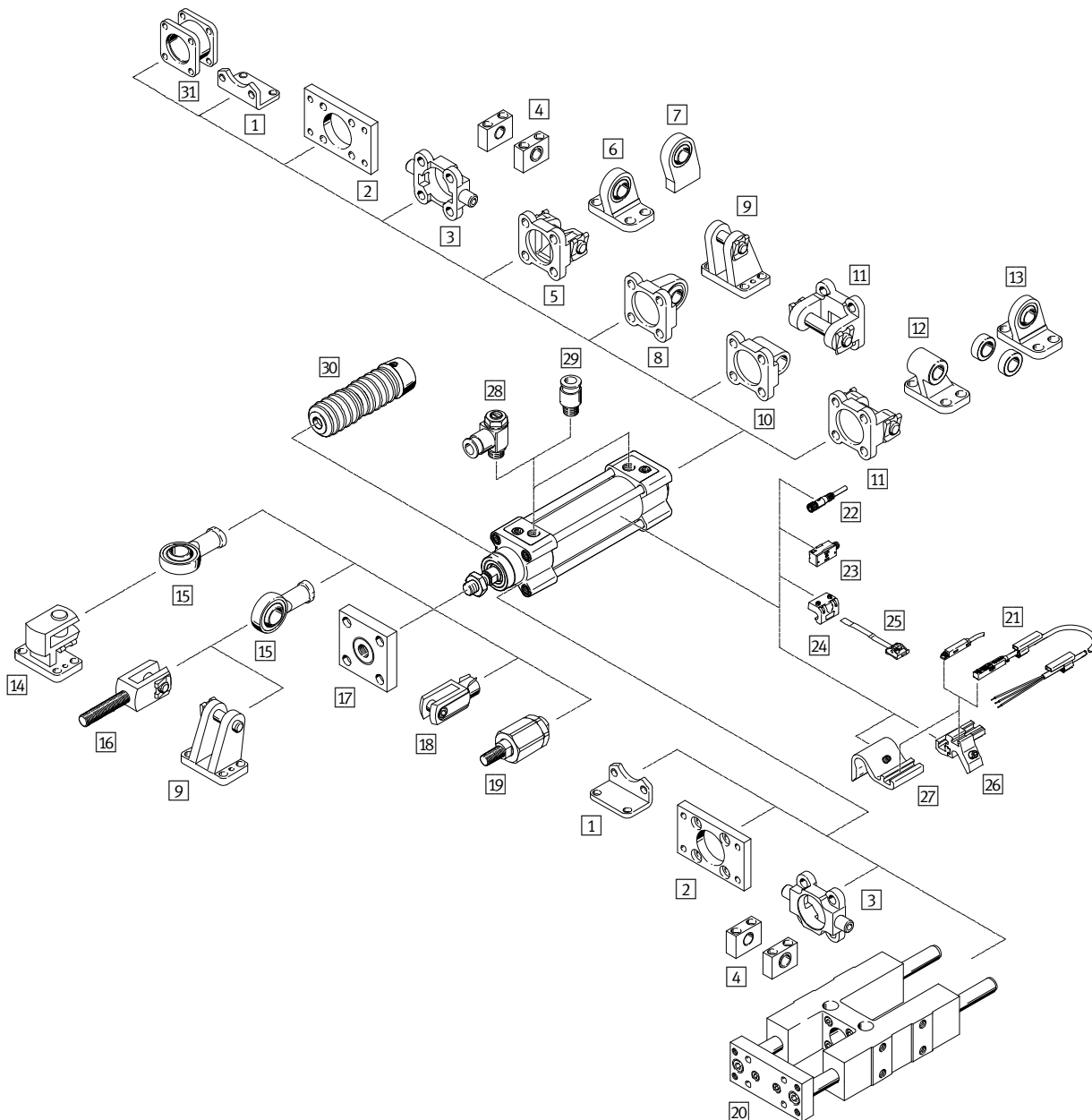
Piston rod extension	
-	None
...E	1 ... 500 mm

Piston rod thread extension	
-	None
...L	1 ... 70 mm

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Peripherals overview

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Mounting attachments and accessories		
	Brief description	→ Page/Internet
[1] Foot mounting HNC/CRHNC	For bearing or end caps	26
[2] Flange mounting FNC/CRFNG	– For bearing or end caps – Cannot be used on the bearing cap in combination with protective bellows kit DADB	27
[3] Trunnion flange ZNCF/CRZNG	– For bearing or end caps – Cannot be used on the bearing cap in combination with protective bellows kit DADB	28
[4] Trunnion support LNZG/CRLNZG	–	29
[5] Swivel flange SNC	For end caps	30
[6] Clevis foot LSNG	With spherical bearing	34

Standard cylinders DSBG, to ISO 15552

Peripherals overview

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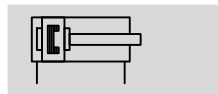
Mounting attachments and accessories		
	Brief description	→ Page/Internet
7	Clevis foot LSNSG	Weld-on, with spherical bearing
8	Swivel flange SNCS	With spherical bearing for end caps
9	Clevis foot LBG	–
10	Swivel flange SNCL	For end caps
11	Swivel flange SNCB/SNCB-...-R3	For end caps
12	Clevis foot LNG/CRLNG	–
13	Clevis foot LSN	With spherical bearing
14	Right-angle clevis foot LQG	–
15	Rod eye SGS/CRSGS	With spherical bearing
16	Rod clevis SGA	With male thread
17	Coupling piece KSG	For compensating radial deviations
	Coupling piece KSZ	For cylinders with a non-rotating piston rod for compensating radial deviations
18	Rod clevis SG/CRSG	Permits a swivelling movement of the cylinder in one plane
19	Self-aligning rod coupler FK	For compensating radial and angular deviations
20	Guide unit FENG	For protecting standard cylinders against rotation at high torque loads
21	Proximity sensor SME/SMT-8M	Can be integrated in the cylinder profile barrel
22	Connecting cable NEBU	–
23	Proximity sensor SMEO-1/SMT-1/SMPO-1-H-B	–
24	Mounting kit SMB	For proximity sensors SMEO-1/SMT-1
25	Mounting kit SMBS	For proximity sensors SMPO-1-H-B
26	Mounting kit SMBZ-8- ...	For proximity sensors SME/SMT-8M
27	Mounting kit DASP-M4- ...	For proximity sensors SME/SMT-8M
28	One-way flow control valve GRLA	For regulating speed
29	Push-in fitting QS	For connecting compressed air tubing with standard O.D.
30	Protective bellows kit DADB	– Protects the cylinder (piston rod, seal and bearings) against a wide range of media and thus prevents premature wear – The kit can only be used in combination with an extended piston rod (E)
31	Multi-position kit DPNC	For connecting two cylinders with identical piston diameters to form a multi-position cylinder

Standard cylinders DSBG, to ISO 15552

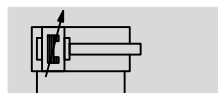
Technical data

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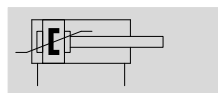
Function
P cushioning



PPV cushioning



PPS cushioning



DIN



-N- Diameter
32 ... 125 mm
-T- Stroke length
1 ... 2,800 mm

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Spare_parts_service



General technical data							
Piston Ø	32	40	50	63	80	100	125
Pneumatic connection	G1/8	G1/4	G1/4	G3/8	G3/8	G1/2	G1/2
Stroke							
DSBG-... [mm]	1 ... 2,800						
DSBG-...-Q [mm]	1 ... 1,500						–
DSBG-...-L [mm]	1 ... 500						–
DSBG-...-U [mm]	1 ... 500						
DSBG-...-P2 [mm]	10 ... 500						–
DSBG-...-...E [mm]	1 ... 2,000						
DSBG-...-...L [mm]	1 ... 2,000						
Min. stroke with position sensing [mm]	3	3	3	3	3	3	5
Design	Piston						
	Piston rod						
	Tie rod						
	Cylinder barrel						
Mode of operation	Double-acting						
Cushioning							
DSBG-...-P	Elastic cushioning rings/pads at both ends						
DSBG-...-PPV	Pneumatic cushioning, adjustable at both ends						
DSBG-...-PPS	Pneumatic cushioning, self-adjusting at both ends						
Cushioning length [mm]	20	20	22	22	32	32	46
Position sensing	Via proximity sensor						
Type of mounting	Via female thread						
	Via accessories						
Mounting position	Any						

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Technical data

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Operating and environmental conditions								
Piston Ø		32	40	50	63	80	100	125
Operating medium		Compressed air to ISO 8573-1:2010 [7:4:4]						
Note on operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)						
Operating pressure								
DSBG-...	[bar]	0.6 ... 12		0.4 ... 12				0.2 ... 10
DSBG-...-L	[bar]	0.3 ... 10	0.25 ... 10			0.2 ... 10	0.15 ... 10	–
DSBG-...-T3/-A2	[bar]	1.5 ... 12		1 ... 12				1 ... 10
DSBG-...-A3	[bar]	1.5 ... 12		1 ... 12	0.6 ... 12			0.6 ... 10
Ambient temperature								
DSBG-...	[°C]	–20 ... +80						
DSBG-...-L	[°C]	0 ... +80						
DSBG-...-T1	[°C]	0 ... +120						
DSBG-...-T3	[°C]	–40 ... +80						
DSBG-...-T4	[°C]	0 ... +150						
DSBG-...-P2	[°C]	–10 ... +80						–
Corrosion resistance class CRC								
DSBG-...		2 ¹⁾						
DSBG-...-R3		3 ²⁾						

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. 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.
- 2) Corrosion resistance class 3 according to Festo standard 940 070
Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

ATEX ¹⁾	
Explosion-proof temperature rating	–20°C ≤ Ta ≤ +60°C
CE marking (see declaration of conformity)	To EU Explosion Protection Directive (ATEX)
ATEX category for gas	II 2G
Explosion ignition protection type for gas	c T4
ATEX category for dust	II 2D
Explosion ignition protection type for dust	c T120°C

- 1) Make sure that the accessories are suited for ATEX application.

Forces [N] and impact energy [J]							
Piston Ø		32	40	50	63	80	100 125
Theoretical force at 6 bar, advancing		483	754	1,178	1,870	3,016	4,712 7,363
Theoretical force at 6 bar, retracting		415	633	990	1,682	2,721	4,418 6,881
Max. impact energy in the end positions							
DSBG-...		0.4	0.7	1.0	1.3	1.8	2.5 3.3
DSBG-...-T1, T3		0.2	0.35	0.5	0.65	0.9	1.25 1.65

Permissible impact velocity:

$$v_{perm.} \leq \sqrt{\frac{2 \times E_{perm.}}{m_{dead} + m_{load}}}$$

Maximum permissible load:

$$m_{load} \leq \frac{2 \times E_{perm.}}{v^2} - m_{dead}$$

$v_{perm.}$ Permissible impact velocity
 $E_{perm.}$ Max. impact energy
 m_{dead} Moving load (drive)
 m_{load} Moving effective load

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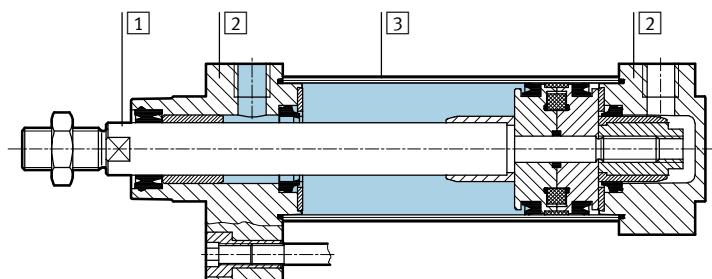
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Technical data

Weight [g]							
Piston Ø	32	40	50	63	80	100	125
DSBG-...							
Product weight with 0 mm stroke	465	740	1,190	1,740	2,660	3,665	6,611
Additional weight per 10 mm stroke	25	35	52	55	85	94	143
Moving load with 0 mm stroke	110	205	365	430	810	1,000	2,245
Moving load per 10 mm stroke	9	16	25	25	39	39	63
DSBG-...-Q							
Product weight with 0 mm stroke	503	755	1,241	1,821	2,717	3,827	–
Additional weight per 10 mm stroke	25	30	47	50	78	87	–
Moving load with 0 mm stroke	115	170	332	391	757	890	–
Moving load per 10 mm stroke	8	11	20	20	31	31	–
DSBG-...-T							
Product weight with 0 mm stroke	581	924	1,523	2,103	3,243	4,353	7,450
Additional weight per 10 mm stroke	34	50	76	97	123	133	206
Moving load with 0 mm stroke	181	339	613	684	1,292	1,516	3,084
Moving load per 10 mm stroke	18	32	50	50	78	78	126

Materials

Sectional view



Standard cylinder	
[1] Piston rod, tie rod	
DSBG-...	High-alloy steel
DSBG-...-R3	High-alloy stainless steel
DSBG-...-A2	Hard-chromium plated tempered steel
[2] Cover	Coated die-cast aluminium
[3] Cylinder barrel	Anodised wrought aluminium alloy
– Piston seal	
DSBG-...	Polyurethane
DSBG-...-T1/-T4	Fluoro elastomer
DSBG-...-T3	Low-temperature polyurethane
Cushioning seal	
DSBG-...	Polyurethane
DSBG-...-T1/-T4	Fluoro elastomer
DSBG-...-T3	Low-temperature polyurethane
Cushion piston	
DSBG-...	Polyacetal
DSBG-...-T1/-T3/-T4	Aluminium
Note on materials	
DSBG-...	RoHS-compliant
DSBG-...-L/-U/-T3/-T4/-A3	Contains PWIS (paint-wetting impairment substances)

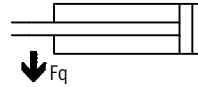
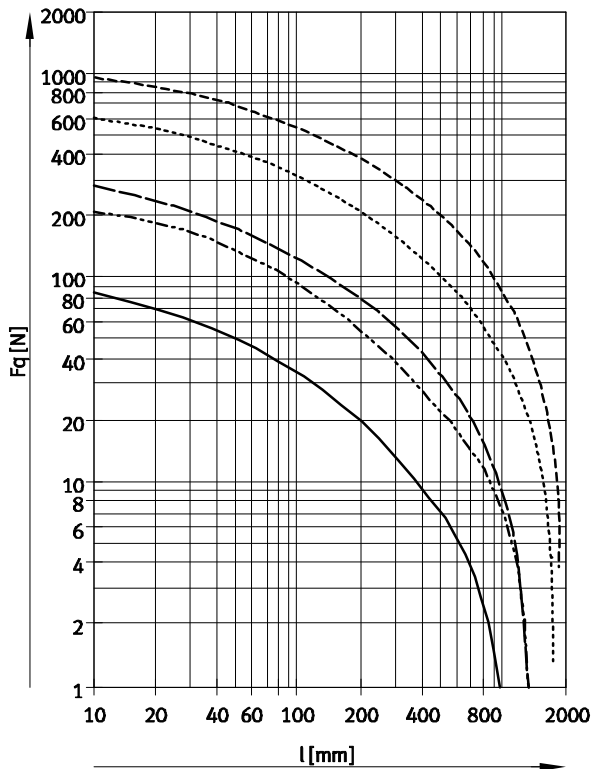
Standard cylinders DSBG, to ISO 15552

Technical data

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Max. lateral force F_q as a function of stroke length l

Basic design



- $\varnothing 32$
- - - $\varnothing 40$
- · - $\varnothing 50/63$
- · · $\varnothing 80/100$
- - - $\varnothing 125$

Permissible torsional backlash with variant Q – With protection against rotation

Piston $\varnothing$	32	40	50	63	80	100
Torsional backlash [°]	±0.65	±0.6	±0.45	±0.45	±0.45	±0.45

Standard cylinders DSBG, to ISO 15552

Technical data

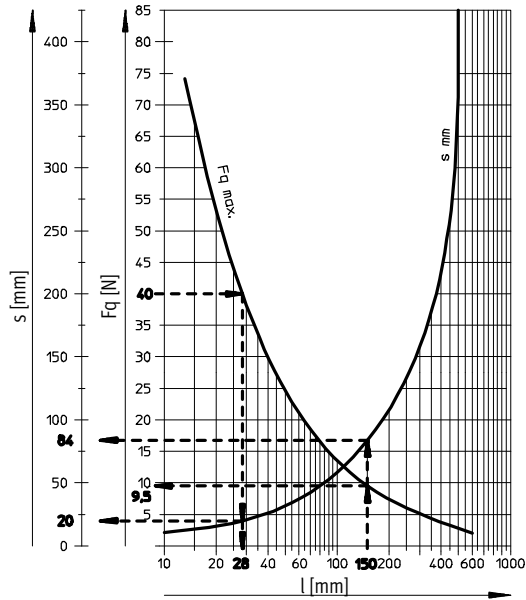
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Max. lateral force F_q as a function of stroke length l and lever arm s

Q – With protection against rotation

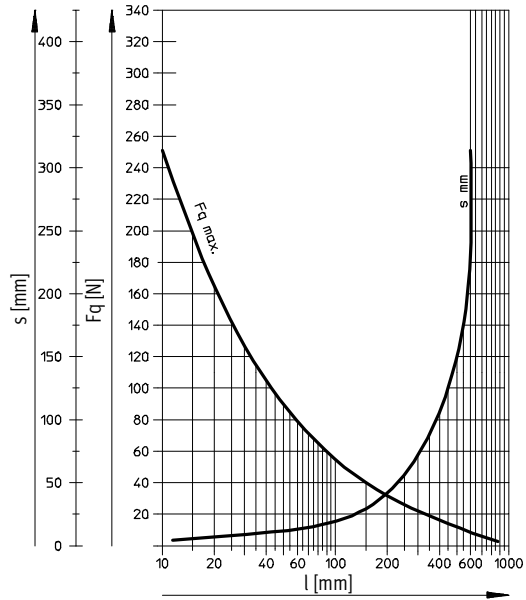
Ø 32

Max. torque = 800 Nmm/max. stroke = 300 mm



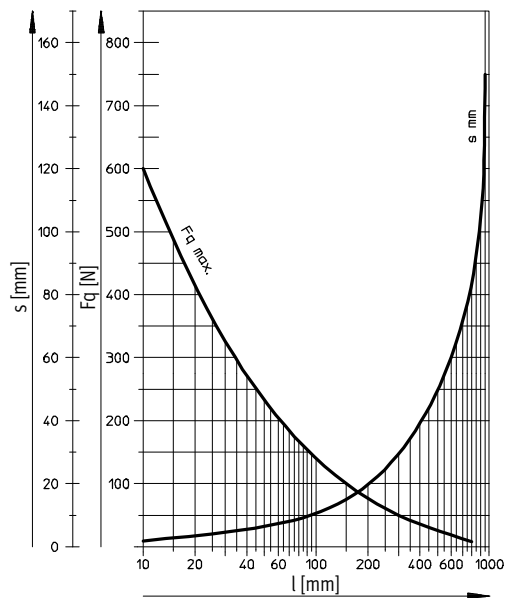
Ø 40

Max. torque = 1,100 Nmm/max. stroke = 400 mm



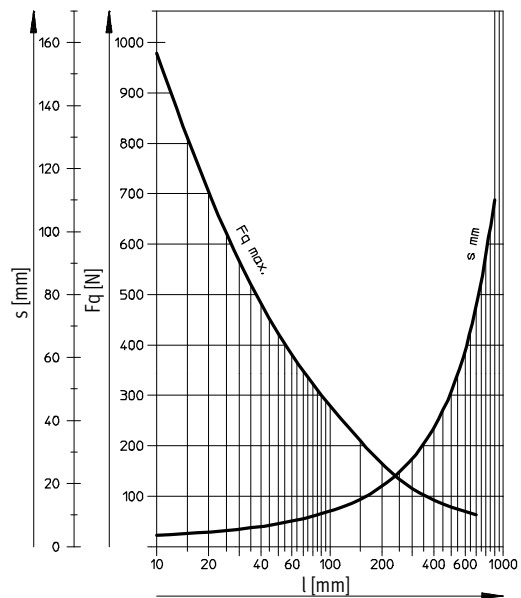
Ø 50/63

Max. torque = 1,500 Nmm/max. stroke = 500 mm



Ø 80/100

Max. torque = 3,000 Nmm/max. stroke = 600 mm



Standard cylinders DSBG, to ISO 15552

Technical data

Max. lateral force F_q as a function of stroke length l and lever arm s

Examples for piston $\varnothing 32$ mm

Example 1:

Stroke length $l = 150$ mm

Result: Permissible

lateral force $F_q = 9.5$ N

Lever arm $s = 84$ mm

Example 2:

Lateral force $F_q = 40$ N

Result: Permissible

stroke length $l = 28$ mm

Lever arm $s = 20$ mm

Example 3:

Stroke length $l = 150$ mm

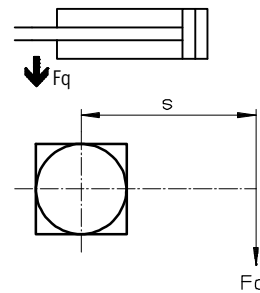
Lever arm $s = 100$ mm

$F_q = \frac{\text{Max. torque } 800 \text{ Nmm}}{\text{Lever arm } 100 \text{ mm}}$

$= 8$ N

Result: Permissible

$F_q = 8 \text{ N} < F_{q_{\text{max.}}} = 9.5 \text{ N}$



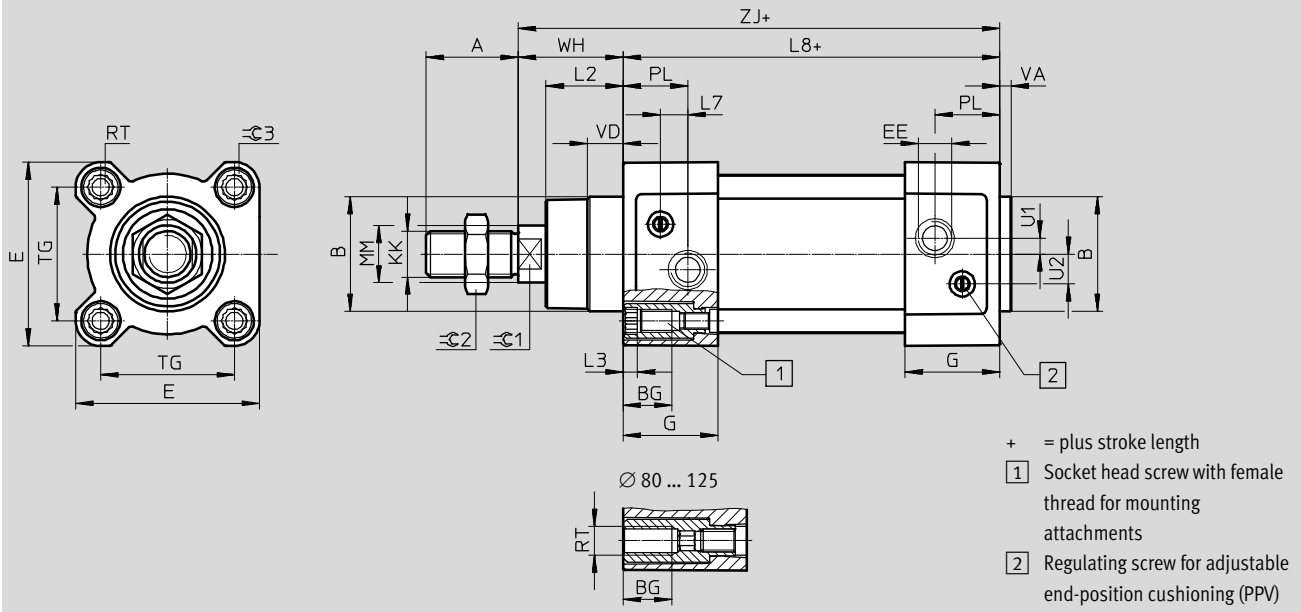
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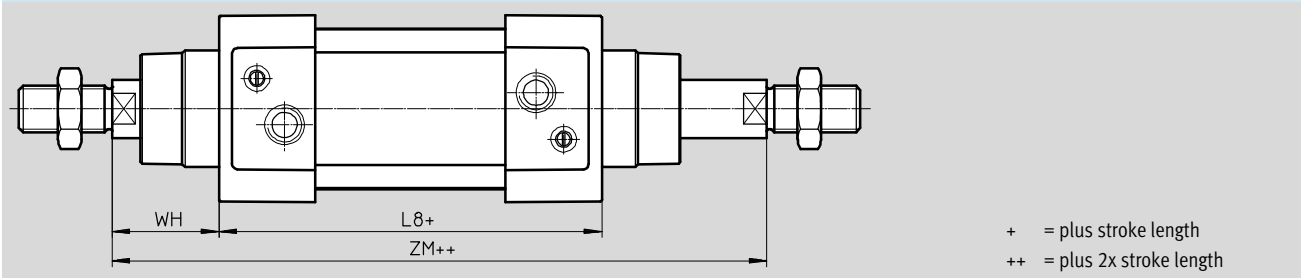
Dimensions

Download CAD Data → www.festo.com/us/cad



Variant

T – Through piston rod



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Ø [mm]	A -0.5	B Ø d11	BG min.	E +0.5	EE	G -0.2	U2 ±0.1	U1 ±0.1	KK
32	22	30	16	45	G1/8	28	5.7	5.25	M10x1.25
40	24	35	16	54	G1/4	33	8	4	M12x1.25
50	32	40	17	64	G1/4	33	10.4	5.5	M16x1.5
63	32	45	17	75	G3/8	40.5	12.75	6.25	M16x1.5
80	40	45	17	93	G3/8	43	12.5	8	M20x1.5
100	40	55	17	110	G1/2	48	13.5	10	M20x1.5
125	54	60	20	136	G1/2	44.7	13	8	M27x2

Ø [mm]	L2	L3 max.	L7	L8 ±0.4	MM Ø	PL ±0.1	RT	TG ±0.3
32	18 _{-0.2}	5	6.5	94	12	19.5	M6	32.5
40	21.3 _{-0.2}	5	7.5	105	16	22.5	M6	38
50	26.8 _{-0.2}	5	9.5	106	20	22.5	M8	46.5
63	27 _{-0.2}	5	9	121	20	27.5	M8	56.5
80	34.2 _{-0.2}	–	11	128	25	30	M10	72
100	38 _{-0.2}	–	7.5	138	25	31.5	M10	89
125	45 _{-0.3}	–	10	160	32	22.5	M12	110

Ø [mm]	VA	VD +0.5	WH +2.2	ZJ +1.8	ZM +1	≈G1	≈G2	≈G3
32	4 _{-0.2}	10	25	119.1	146.1	10	16	6
40	4 _{-0.2}	10.5	28.7	133.9	164.8	13	18	6
50	4 _{-0.2}	11.5	35.6	141.8	179.8	17	24	8
63	4 _{-0.2}	15	35.9	157.1	195.4	17	24	8
80	4 _{-0.2}	15.7	45.4	173.6	221	22	30	6
100	4 _{-0.2}	19.2	49.3	187.5	238.8	22	30	6
125	6 _{-0.3}	20.5	64.1	225	290	27	41	8

Standard cylinders DSBG, to ISO 15552

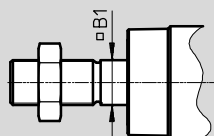
Technical data

FESTO

Dimensions – Variants

Download CAD Data → www.festo.com/us/cad

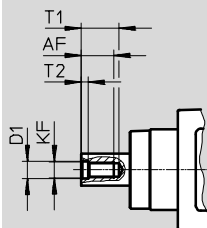
Q – With protection against rotation



Note

In combination with variant T, the piston rod is protected against rotation at one end.

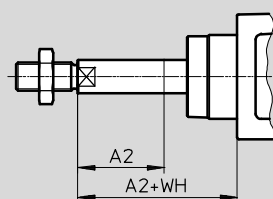
F – Female thread



Note

In combination with variant T, the piston rod has female threads at both ends.

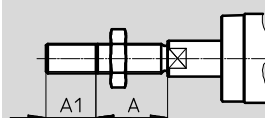
...E – Piston rod extension



Note

In combination with variant T, the piston rod is extended at one end.

...L – Piston rod thread extension



Note

In combination with variant T, the piston rod thread is extended at both ends.

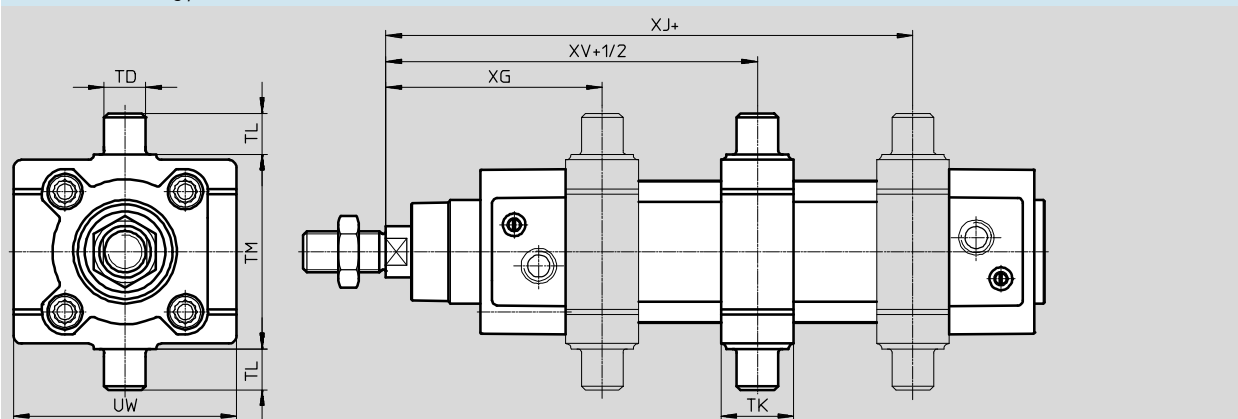
Ø [mm]	A	A1		A2		AF min.
		min.	max.	min.	max.	
32	22	1	35	1	500	12
40	24	1	35	1	500	12
50	32	1	70	1	500	16
63	32	1	70	1	500	16
80	40	1	70	1	500	20
100	40	1	70	1	500	20
125	54	1	70	1	500	32

Ø [mm]	B1	D1	KF	T1 max.	T2	WH
32	10	6.4	M6	16	2.6	26
40	12	8.4	M8	16	3.3	28.7
50	16	10.5	M10	21	4.7	35.6
63	16	10.5	M10	21	4.7	35.9
80	20	13	M12	26.5	6.1	45.4
100	20	13	M12	26.5	6.1	49.3
125	–	17	M16	40	8	65

Standard cylinders DSBG, to ISO 15552

Technical data

...V – Swivel mounting position



Note

The dimensions for the swivel mounting position (...V) refer to the basic design without piston rod extension.

The swivel mounting is adjustable.

+ = plus stroke length
+1/2 = plus half stroke length

Ø	TD	TK	TL	TM
[mm]	Ø e9		h14	h14
32	12	20	12	50
40	16	25	16	63
50	16	28	16	75
63	20	30	20	90
80	20	32	20	110
100	25	38	25	132
125	25	44	25	160

Ø	UW	XG	XJ	XV
[mm]		min.	max.	
32	65	64±1.4	81±1.4	73±1.4
40	72	74.2±1.4	88.4±1.4	81.2±1.4
50	86	82.6±1.4	94.8±1.4	88.6±1.4
63	98	91.4±1.8	101.6±1.8	96.4±1.8
80	110	104.4±1.8	114.6±1.8	109.4±1.8
100	136	116.3±1.8	120.5±1.8	118.3±1.8
125	160	131.7±1.8	158.3±1.8	145±1.8

Standard cylinders DSBG, to ISO 15552

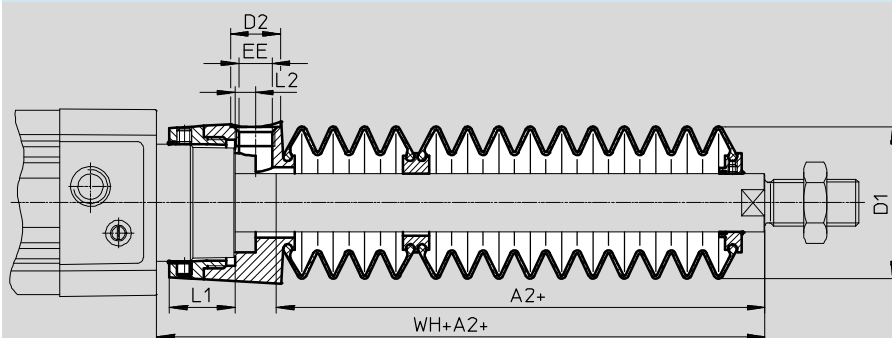
Technical data

FESTO

Dimensions – Variants

Download CAD Data → www.festo.com/us/cad

P2 – Bellows on bearing cap



+ = plus stroke length

Ø Stroke [mm]	32							40						
	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2
10 ... 50	29	38	14	G ¹ / ₈	12.9	5.4	55	28	46	14	G ¹ / ₈	16.3	5.4	56.7
51 ... 125	47						73	43						71.7
126 ... 175	61						87	56						84.7
176 ... 250	80						106	72						100.7
251 ... 300	96						122	86						114.7
301 ... 350	112						138	100						128.7
351 ... 375	114						140	101						129.7
376 ... 425	130						156	115						143.7
426 ... 475	145						171	130						158.7
476 ... 500	147						173	131						159.7

Ø Stroke [mm]	50							63						
	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2
10 ... 50	28	57	17	G ¹ / ₄	22.35	7	63.6	28	57	17	G ¹ / ₄	22.4	7	63.9
51 ... 125	46						81.6	46						81.9
126 ... 175	56						91.6	56						91.9
176 ... 250	73						108.6	73						108.9
251 ... 300	86						121.6	86						121.9
301 ... 350	97						132.6	97						132.9
351 ... 375	105						140.6	105						140.9
376 ... 425	116						151.6	116						151.9
426 ... 475	126						161.6	126						161.9
476 ... 500	134						169.6	134						169.9

Ø Stroke [mm]	80							100						
	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2
10 ... 50	25	93	17	G ¹ / ₄	28	4	70.4	25	93	17	G ¹ / ₄	28	4	74.3
51 ... 125	37						82.4	37						86.3
126 ... 175	49						94.4	49						98.3
176 ... 250	62						107.4	62						111.3
251 ... 300	74						119.4	74						123.3
301 ... 350	86						131.4	86						135.3
351 ... 375	87						132.4	87						136.3
376 ... 425	98						143.4	98						147.3
426 ... 475	110						155.4	110						159.3
476 ... 500	111						156.4	111						160.3

1) The dimension corresponds to the E value (piston rod extension) of the drive

Standard cylinders DSBG, to ISO 15552

Technical data

FESTO

Ordering data					
Piston Ø [mm]	Stroke [mm]	With PPV cushioning		With PPS cushioning	
		Part No.	Type	Part No.	Type
32	25	1638842	DSBG-32-25-PPVA-N3	1645460	DSBG-32-25-PPSA-N3
	40	1638843	DSBG-32-40-PPVA-N3	1645461	DSBG-32-40-PPSA-N3
	50	1638844	DSBG-32-50-PPVA-N3	1645462	DSBG-32-50-PPSA-N3
	80	1638845	DSBG-32-80-PPVA-N3	1645463	DSBG-32-80-PPSA-N3
	100	1638846	DSBG-32-100-PPVA-N3	1645464	DSBG-32-100-PPSA-N3
	125	1638848	DSBG-32-125-PPVA-N3	1645465	DSBG-32-125-PPSA-N3
	160	1638849	DSBG-32-160-PPVA-N3	1645466	DSBG-32-160-PPSA-N3
	200	1638850	DSBG-32-200-PPVA-N3	1645467	DSBG-32-200-PPSA-N3
	250	1638851	DSBG-32-250-PPVA-N3	1645468	DSBG-32-250-PPSA-N3
	320	1638852	DSBG-32-320-PPVA-N3	1645469	DSBG-32-320-PPSA-N3
	400	1638853	DSBG-32-400-PPVA-N3	1645470	DSBG-32-400-PPSA-N3
	500	1638854	DSBG-32-500-PPVA-N3	1645471	DSBG-32-500-PPSA-N3
	1 ... 2,800	1634781	DSBG-32-...-PPVA-N3	1634560	DSBG-32-...-PPSA-N3
40	25	1646547	DSBG-40-25-PPVA-N3	1646559	DSBG-40-25-PPSA-N3
	40	1646548	DSBG-40-40-PPVA-N3	1646560	DSBG-40-40-PPSA-N3
	50	1646549	DSBG-40-50-PPVA-N3	1646561	DSBG-40-50-PPSA-N3
	80	1646550	DSBG-40-80-PPVA-N3	1646562	DSBG-40-80-PPSA-N3
	100	1646551	DSBG-40-100-PPVA-N3	1646563	DSBG-40-100-PPSA-N3
	125	1646552	DSBG-40-125-PPVA-N3	1646564	DSBG-40-125-PPSA-N3
	160	1646553	DSBG-40-160-PPVA-N3	1646565	DSBG-40-160-PPSA-N3
	200	1646554	DSBG-40-200-PPVA-N3	1646566	DSBG-40-200-PPSA-N3
	250	1646555	DSBG-40-250-PPVA-N3	1646567	DSBG-40-250-PPSA-N3
	320	1646556	DSBG-40-320-PPVA-N3	1646568	DSBG-40-320-PPSA-N3
	400	1646557	DSBG-40-400-PPVA-N3	1646569	DSBG-40-400-PPSA-N3
	500	1646558	DSBG-40-500-PPVA-N3	1646570	DSBG-40-500-PPSA-N3
	1 ... 2,800	1644503	DSBG-40-...-PPVA-N3	1645473	DSBG-40-...-PPSA-N3
50	25	1646709	DSBG-50-25-PPVA-N3	1646723	DSBG-50-25-PPSA-N3
	40	1646710	DSBG-50-40-PPVA-N3	1646724	DSBG-50-40-PPSA-N3
	50	1646711	DSBG-50-50-PPVA-N3	1646725	DSBG-50-50-PPSA-N3
	80	1646712	DSBG-50-80-PPVA-N3	1646726	DSBG-50-80-PPSA-N3
	100	1646713	DSBG-50-100-PPVA-N3	1646727	DSBG-50-100-PPSA-N3
	125	1646714	DSBG-50-125-PPVA-N3	1646728	DSBG-50-125-PPSA-N3
	160	1646715	DSBG-50-160-PPVA-N3	1646729	DSBG-50-160-PPSA-N3
	200	1646716	DSBG-50-200-PPVA-N3	1646730	DSBG-50-200-PPSA-N3
	250	1646717	DSBG-50-250-PPVA-N3	1646731	DSBG-50-250-PPSA-N3
	320	1646718	DSBG-50-320-PPVA-N3	1646732	DSBG-50-320-PPSA-N3
	400	1646719	DSBG-50-400-PPVA-N3	1646733	DSBG-50-400-PPSA-N3
	500	1646720	DSBG-50-500-PPVA-N3	1646734	DSBG-50-500-PPSA-N3
	1 ... 2,800	1646708	DSBG-50-...-PPVA-N3	1646722	DSBG-50-...-PPSA-N3

Note

Other variants in the modular product system → 24

Standard cylinders DSBG, to ISO 15552

Technical data

FESTO

Ordering data					
Piston Ø [mm]	Stroke [mm]	With PPV cushioning		With PPS cushioning	
		Part No.	Type	Part No.	Type
63	25	1646740	DSBG-63-25-PPVA-N3	1646754	DSBG-63-25-PPSA-N3
	40	1646741	DSBG-63-40-PPVA-N3	1646755	DSBG-63-40-PPSA-N3
	50	1646742	DSBG-63-50-PPVA-N3	1646756	DSBG-63-50-PPSA-N3
	80	1646743	DSBG-63-80-PPVA-N3	1646757	DSBG-63-80-PPSA-N3
	100	1646744	DSBG-63-100-PPVA-N3	1646758	DSBG-63-100-PPSA-N3
	125	1646745	DSBG-63-125-PPVA-N3	1646760	DSBG-63-125-PPSA-N3
	160	1646746	DSBG-63-160-PPVA-N3	1646761	DSBG-63-160-PPSA-N3
	200	1646747	DSBG-63-200-PPVA-N3	1646762	DSBG-63-200-PPSA-N3
	250	1646748	DSBG-63-250-PPVA-N3	1646763	DSBG-63-250-PPSA-N3
	320	1646749	DSBG-63-320-PPVA-N3	1646764	DSBG-63-320-PPSA-N3
	400	1646750	DSBG-63-400-PPVA-N3	1646765	DSBG-63-400-PPSA-N3
	500	1646751	DSBG-63-500-PPVA-N3	1646766	DSBG-63-500-PPSA-N3
	1 ... 2,800	1646739	DSBG-63-...-PPVA-N3	1646753	DSBG-63-...-PPSA-N3
80	25	1646771	DSBG-80-25-PPVA-N3	1646785	DSBG-80-25-PPSA-N3
	40	1646772	DSBG-80-40-PPVA-N3	1646786	DSBG-80-40-PPSA-N3
	50	1646773	DSBG-80-50-PPVA-N3	1646787	DSBG-80-50-PPSA-N3
	80	1646774	DSBG-80-80-PPVA-N3	1646788	DSBG-80-80-PPSA-N3
	100	1646775	DSBG-80-100-PPVA-N3	1646789	DSBG-80-100-PPSA-N3
	125	1646776	DSBG-80-125-PPVA-N3	1646790	DSBG-80-125-PPSA-N3
	160	1646777	DSBG-80-160-PPVA-N3	1646791	DSBG-80-160-PPSA-N3
	200	1646778	DSBG-80-200-PPVA-N3	1646792	DSBG-80-200-PPSA-N3
	250	1646779	DSBG-80-250-PPVA-N3	1646793	DSBG-80-250-PPSA-N3
	320	1646780	DSBG-80-320-PPVA-N3	1646794	DSBG-80-320-PPSA-N3
	400	1646781	DSBG-80-400-PPVA-N3	1646795	DSBG-80-400-PPSA-N3
	500	1646782	DSBG-80-500-PPVA-N3	1646796	DSBG-80-500-PPSA-N3
	1 ... 2,800	1646770	DSBG-80-...-PPVA-N3	1646784	DSBG-80-...-PPSA-N3
100	25	1646801	DSBG-100-25-PPVA-N3	1646815	DSBG-100-25-PPSA-N3
	40	1646802	DSBG-100-40-PPVA-N3	1646816	DSBG-100-40-PPSA-N3
	50	1646803	DSBG-100-50-PPVA-N3	1646817	DSBG-100-50-PPSA-N3
	80	1646804	DSBG-100-80-PPVA-N3	1646818	DSBG-100-80-PPSA-N3
	100	1646805	DSBG-100-100-PPVA-N3	1646819	DSBG-100-100-PPSA-N3
	125	1646806	DSBG-100-125-PPVA-N3	1646820	DSBG-100-125-PPSA-N3
	160	1646807	DSBG-100-160-PPVA-N3	1646821	DSBG-100-160-PPSA-N3
	200	1646808	DSBG-100-200-PPVA-N3	1646822	DSBG-100-200-PPSA-N3
	250	1646809	DSBG-100-250-PPVA-N3	1646823	DSBG-100-250-PPSA-N3
	320	1646810	DSBG-100-320-PPVA-N3	1646824	DSBG-100-320-PPSA-N3
	400	1646811	DSBG-100-400-PPVA-N3	1646825	DSBG-100-400-PPSA-N3
	500	1646812	DSBG-100-500-PPVA-N3	1646826	DSBG-100-500-PPSA-N3
	1 ... 2,800	1646800	DSBG-100-...-PPVA-N3	1646814	DSBG-100-...-PPSA-N3

Note

Other variants in the modular product system → 24

Standard cylinders DSBG, to ISO 15552

Technical data

FESTO

Ordering data					
Piston Ø [mm]	Stroke [mm]	With PPV cushioning		With PPS cushioning	
		Part No.	Type	Part No.	Type
125	25	2159622	DSBG-125-25-PPVA-N3	2159907	DSBG-125-25-PPSA-N3
	40	2159623	DSBG-125-40-PPVA-N3	2159908	DSBG-125-40-PPSA-N3
	50	2159624	DSBG-125-50-PPVA-N3	2159909	DSBG-125-50-PPSA-N3
	80	2159625	DSBG-125-80-PPVA-N3	2159910	DSBG-125-80-PPSA-N3
	100	2159626	DSBG-125-100-PPVA-N3	2159911	DSBG-125-100-PPSA-N3
	125	2159627	DSBG-125-125-PPVA-N3	2159912	DSBG-125-125-PPSA-N3
	160	2159628	DSBG-125-160-PPVA-N3	2159913	DSBG-125-160-PPSA-N3
	200	2159629	DSBG-125-200-PPVA-N3	2159915	DSBG-125-200-PPSA-N3
	250	2159630	DSBG-125-250-PPVA-N3	2159916	DSBG-125-250-PPSA-N3
	320	2159631	DSBG-125-320-PPVA-N3	2159917	DSBG-125-320-PPSA-N3
	400	2159632	DSBG-125-400-PPVA-N3	2159918	DSBG-125-400-PPSA-N3
	500	2159633	DSBG-125-500-PPVA-N3	2159919	DSBG-125-500-PPSA-N3
	1 ... 2,800	2158455	DSBG-125-...-PPVA-N3	2158471	DSBG-125-...-PPSA-N3

Note

Other variants in the modular product system → 24

Standard cylinders DSBG, to ISO 15552

Ordering data – Modular products

Ordering table											
Size		32	40	50	63	80	100	125	Conditions	Code	Enter code
M	Module No.	1634484	1645477	1646707	1646738	1646769	1646799	2045493			DSBG
	Function	Standard cylinder, double-acting, based on ISO 15552								DSBG	
O	Protection against rotation	None									
		With protection against rotation						–	1	-Q	
	Running characteristics	Standard									
		Low friction						–	2	L	
		Constant, slow movement							3	U	
M	Piston Ø [mm]	32	40	50	63	80	100	125		-...	
	Stroke [mm]	1 ... 2,800								-...	
O	Piston rod type	At one end									
		Through piston rod								-T	
	Piston rod thread type	Male thread									
		Female thread							4	F	
M	Cushioning	Elastic cushioning rings/pads at both ends								-P	
		Pneumatic cushioning, self-adjusting at both ends							5	-PPS	
		Pneumatic cushioning, adjustable at both ends								-PPV	
↓	Position sensing	Via proximity sensor								A	A

- | | | |
|---|------------|--|
| 1 | Q | Not with L, U, N3, T3, T4, P2, A2, A3
Only up to stroke 1,500 mm |
| 2 | L | Not with T, PPS, PPV, R3, T1, T3, T4, P2, A2, A3
Only up to stroke 500 mm |
| 3 | U | Not with T, PPS, R3, T1, T3, T4, P2, A2, A3
Only up to stroke 500 mm |
| 4 | F | Not with N3, ...L |
| 5 | PPS | Not with T1, T3, T4 |

Transfer order code

Transfer Order Code

	DSBG	-		-		-		-		-		-	A
--	------	---	--	---	--	---	--	---	--	---	--	---	---

Standard cylinders DSBG, to ISO 15552

Ordering data – Modular product

Ordering table										
Size	32	40	50	63	80	100	125	Condition s	Code	Enter code
↓ [0]	Standard									
	Based on ISO 15552									
	Conforms to ISO 15552								-N3	
	Corrosion protection									
	Standard									
	High corrosion protection							[6]	R3	
	Temperature range									
	Standard									
	[°C] Heat-resistant seals up to max. 120							[7]	T1	
	[°C] -40 ... +80							[7]	T3	
	[°C] 0 ... +150							[7]	T4	
	Particle protection									
	Standard									
	Bellows on bearing cap						-	[8]	P2	
	Wiper seal variant									
	None									
	Hard wiper seal								A2	
	For unlubricated operation								A3	
	Swivel mounting position [mm]									
	None									
	0 ... 2,800								-...V	
	Piston rod extension [mm]									
	None									
	1 ... 500							[9]	-...E	
	Piston rod thread extension [mm]									
	None									
	1 ... 35		1 ... 70					[9]	-...L	

- [6] **R3** Not with A2, ...V
- [7] **T1, T3, T4** Not with P2, A2, A3
- [8] **P2** Not with N3, A2, A3
- [9] **-...E, -...L** Not with N3,
only up to stroke 2,000 mm

Note

The piston rod extension is automatically taken into consideration in combination with feature P2. This means that there is no need to specify a value in the feature ...E.

Note

When feature P2 is ordered in combination with feature T (through piston rod), the bellows is mounted on one side only.

Transfer order code

- - - -

Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

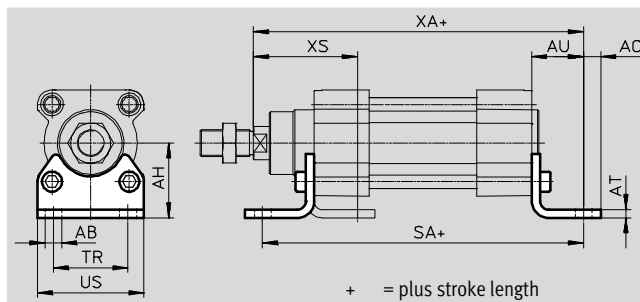
Foot mounting HNC/CRHNC

Materials:

HNC: Galvanised steel

CRHNC: High-alloy steel

Free of copper and PTFE



Dimensions and ordering data										
For Ø	AB Ø	AH	A0	AT	AU	SA	TR	US	XA	XS
[mm]										
32	7	32	6.5	4	24	142	32	45	143.1	46
40	10	36	9	4	28	161	36	54	161.9	52.7
50	10	45	9.5	5	32	170	45	64	173.8	62.6
63	10	50	12.5	5	32	185	50	75	189.1	62.9
80	12	63	15	6	41	210	63	93	214.6	80.4
100	14.5	71	17.5	6	41	220	75	110	228.5	84.3
125	16.5	90	22	8	45	250	90	131	270	102

For Ø [mm]	Basic design				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
32	2	144	174369	HNC-32	4	139	176937	CRHNC-32
40	2	193	174370	HNC-40	4	188	176938	CRHNC-40
50	2	353	174371	HNC-50	4	341	176939	CRHNC-50
63	2	436	174372	HNC-63	4	424	176940	CRHNC-63
80	2	829	174373	HNC-80	4	809	176941	CRHNC-80
100	2	1,009	174374	HNC-100	4	990	176942	CRHNC-100
125	2	1,902	174375	HNC-125	4	1,920	176943	CRHNC-125

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

Components subject to moderate corrosion stress. 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 4 according to Festo standard 940 070

Components subject to very high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Standard cylinders DSBG, to ISO 15552

Accessories

Flange mounting FNC/CRFNG

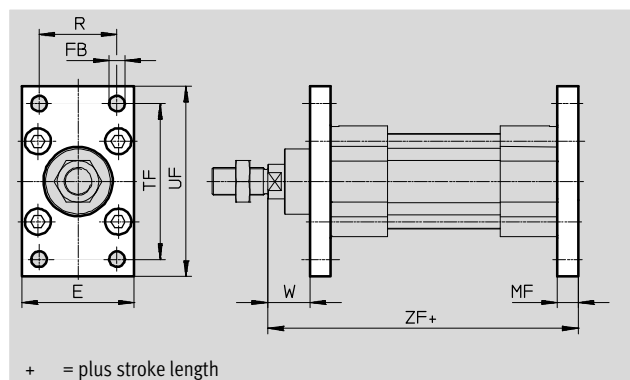
Materials:

FNC: Galvanised steel

CRFNG: High-alloy steel

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data								
For Ø	E	FB Ø H13	MF	R	TF	UF	W	ZF
[mm]								
32	45	7	10	32	64	80	16	129.1
40	54	9	10	36	72	90	18.7	143.9
50	65	9	12	45	90	110	23.6	153.8
63	75	9	12	50	100	120	23.9	169.1
80	93	12	16	63	126	150	29.4	189.6
100	110	14	16	75	150	175	33.3	203.5
125	132	16	20	90	180	210	45	245

For Ø	Basic design				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]								
32	1	221	174376	FNC-32	4	225	161846	CRFNG-32
40	1	291	174377	FNC-40	4	300	161847	CRFNG-40
50	1	536	174378	FNC-50	4	540	161848	CRFNG-50
63	1	679	174379	FNC-63	4	680	161849	CRFNG-63
80	1	1,495	174380	FNC-80	4	1,500	161850	CRFNG-80
100	1	2,041	174381	FNC-100	4	2,100	161851	CRFNG-100
125	1	3,775	174382	FNC-125	4	3,780	185363	CRFNG-125

1) Corrosion resistance class 1 according to Festo standard 940 070

Components subject to low corrosion stress. Transport and storage protection. Parts that do not have primarily decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

Corrosion resistance class 4 according to Festo standard 940 070

Components subject to very high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

Trunnion flange ZNCF/CRZNG

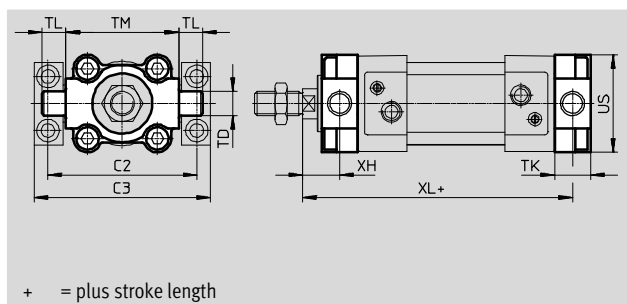
Materials:

ZNCF: Stainless steel casting

CRZNG: Electropolished stainless steel casting

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data

For Ø	C2	C3	TD Ø E9	TK	TL	TM	US	XH	XL
[mm]									
32	71	86	12	16	12	50	45	18	127.1
40	87	105	16	20	16	63	54	18.7	143.9
50	99	117	16	24	16	75	64	23.6	153.8
63	116	136	20	24	20	90	75	23.9	169.1
80	136	156	20	28	20	110	93	31.4	187.6
100	164	189	25	38	25	132	110	30.3	206.5
125	192	217	25	50	25	160	131	40	250

For Ø	Basic design				High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]								
32	2	150	174411	ZNCF-32	4	150	161852	CRZNG-32
40	2	285	174412	ZNCF-40	4	285	161853	CRZNG-40
50	2	473	174413	ZNCF-50	4	473	161854	CRZNG-50
63	2	687	174414	ZNCF-63	4	687	161855	CRZNG-63
80	2	1,296	174415	ZNCF-80	4	1,296	161856	CRZNG-80
100	2	2,254	174416	ZNCF-100	4	2,254	161857	CRZNG-100
125	2	3,484	174417	ZNCF-125	4	3,484	185362	CRZNG-125

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

Components subject to moderate corrosion stress. 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 4 according to Festo standard 940 070

Components subject to very high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Standard cylinders DSBG, to ISO 15552

Accessories

Trunnion support LNZG

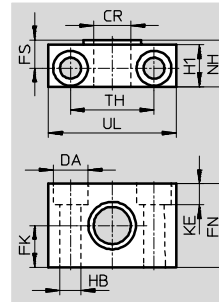
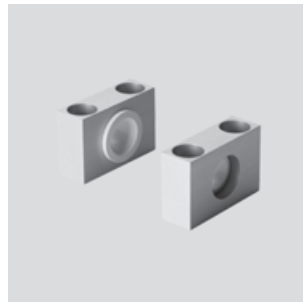
Materials:

Trunnion support: Anodised aluminium

Plain bearing: Plastic

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data															
For Ø	CR Ø	DA Ø	FK Ø	FN	FS	H1	HB Ø	KE	NH	TH	UL	CRC ¹⁾	Weight	Part No.	Type
[mm]	D11	H13	±0.1				H13			±0.2			[g]		
32	12	11	15	30	10.5	15	6.6	6.8	18	32	46	2	83	32959	LNZG-32
40, 50	16	15	18	36	12	18	9	9	21	36	55	2	129	32960	LNZG-40/50
63, 80	20	18	20	40	13	20	11	11	23	42	65	2	178	32961	LNZG-63/80
100, 125	25	20	25	50	16	24.5	14	13	28.5	50	75	2	306	32962	LNZG-100/125

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

Components subject to moderate corrosion stress. 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.

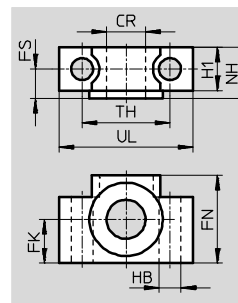
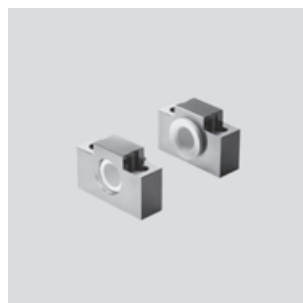
Trunnion support CRLNZG

Materials:

High-alloy steel

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data													
For Ø	CR	FK	FN	FS	H1	HB	NH	TH	UL	CRC ¹⁾	Weight	Part No.	Type
[mm]	Ø D11	Ø ±0.1				Ø H13		±0.2			[g]		
32	12	15	30	10.5	15	6.6	18	32	46	4	205	161874	CRLNZG-32
40, 50	16	18	36	12	18	9	21	36	55	4	323	161875	CRLNZG-40/50
63, 80	20	20	40	13	20	11	23	42	65	4	435	161876	CRLNZG-63/80
100, 125	25	25	50	16	24.5	14	28.5	50	75	4	739	161877	CRLNZG-100/125

1) Corrosion resistance class 4 to Festo standard 940 070

Components subject to high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

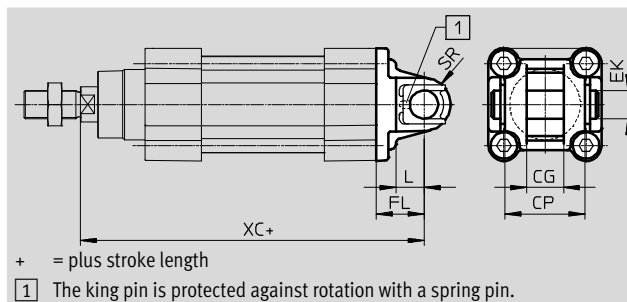
Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

Swivel flange SNC

Materials:
Die-cast aluminium
RoHS-compliant



Dimensions and ordering data										
For Ø	CG	CP	EK Ø	FL	L	SR	XC	CRC ¹⁾	Weight	Part No. Type
[mm]	H14	h14	H9	±0.2					[g]	
32	14	34	10	22	13	10	141.1	2	90	174383 SNC-32
40	16	40	12	25	16	12	158.9	2	120	174384 SNC-40
50	21	45	16	27	16	12	168.8	2	240	174385 SNC-50
63	21	51	16	32	21	16	189.1	2	320	174386 SNC-63
80	25	65	20	36	22	16	209.6	2	625	174387 SNC-80
100	25	75	20	41	27	20	228.5	2	830	174388 SNC-100
125	37	97	30	50	30	25	275	2	1,785	174389 SNC-125

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

Components subject to moderate corrosion stress. 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.

Standard cylinders DSBG, to ISO 15552

Accessories

Swivel flange SNCB/SNCB-...-R3

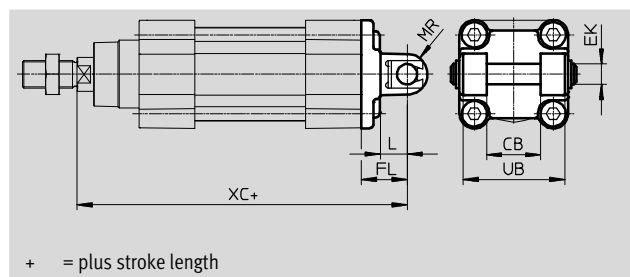
Materials:

SNCB: Die-cast aluminium

SNCB-...-R3: Die-cast aluminium with protective coating, high corrosion protection

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data							
For Ø	CB	EK	FL	L	MR	UB	XC
[mm]	H14	Ø e8	±0.2			h14	
32	26	10	22	13	8.5	45	141.1
40	28	12	25	16	12	52	158.9
50	32	12	27	16	12	60	168.8
63	40	16	32	21	16	70	189.1
80	50	16	36	22	16	90	209.6
100	60	20	41	27	20	110	228.5
125	70	25	50	30	25	130	275

For Ø	Basic design				Variant R3 – High corrosion protection			
	CRC ¹⁾	Weight [g]	Part No.	Type	CRC ¹⁾	Weight [g]	Part No.	Type
[mm]								
32	2	103	174390	SNCB-32	3	100	176944	SNCB-32-R3
40	2	155	174391	SNCB-40	3	151	176945	SNCB-40-R3
50	2	232	174392	SNCB-50	3	228	176946	SNCB-50-R3
63	2	375	174393	SNCB-63	3	371	176947	SNCB-63-R3
80	2	636	174394	SNCB-80	3	632	176948	SNCB-80-R3
100	2	1,035	174395	SNCB-100	3	986	176949	SNCB-100-R3
125	2	1,860	174396	SNCB-125	3	1,776	176950	SNCB-125-R3

- 1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. 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 to Festo standard 940 070
Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

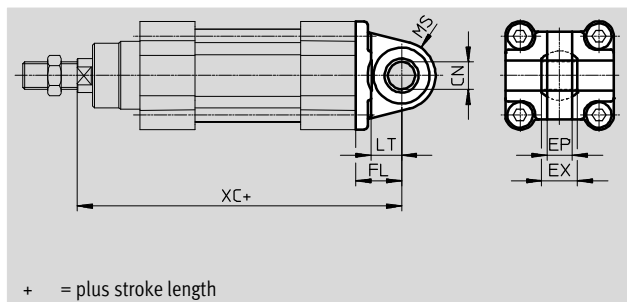
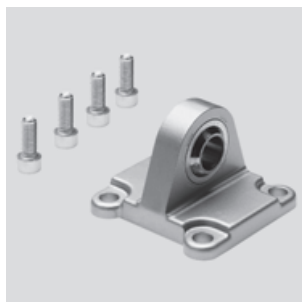
Swivel flange SNCS

Materials:

Die-cast aluminium

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data										
For Ø	CN	EP	EX	FL	LT	MS	XC	CRC ¹⁾	Weight	Part No. Type
[mm]	Ø H7	±0.2		±0.2					[g]	
32	10	10.5	14	22	13	15	141.1	2	85	174397 SNCS-32
40	12	12	16	25	16	17	158.9	2	125	174398 SNCS-40
50	16	15	21	27	16	20	168.8	2	210	174399 SNCS-50
63	16	15	21	32	21	22	189.1	2	280	174400 SNCS-63
80	20	18	25	36	22	27	209.6	2	540	174401 SNCS-80
100	20	18	25	41	27	29	228.5	2	700	174402 SNCS-100
125	30	25	37	50	30	39	275	2	1,410	174403 SNCS-125

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

Components subject to moderate corrosion stress. 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.

Standard cylinders DSBG, to ISO 15552

Accessories

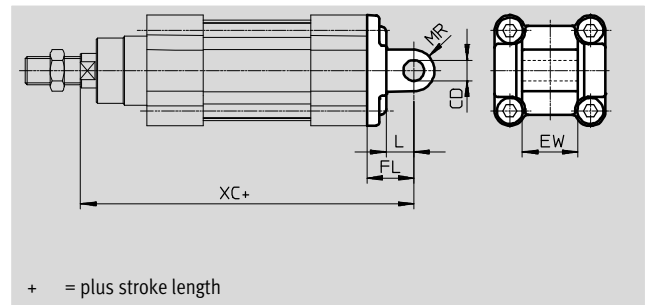
Swivel flange SNCL

Materials:

Die-cast aluminium

Free of copper and PTFE

RoHS-compliant



Dimensions and ordering data										
For Ø	CD	EW	FL	L	MR	XC	CRC ¹⁾	Weight	Part No.	Type
[mm]	Ø H9	h12	±0.2					[g]		
32	10	26	22	13	10	141.1	2	75	174404	SNCL-32
40	12	28	25	16	12	158.9	2	100	174405	SNCL-40
50	12	32	27	16	12	168.8	2	160	174406	SNCL-50
63	16	40	32	21	16	189.1	2	250	174407	SNCL-63
80	16	50	36	22	16	209.6	2	405	174408	SNCL-80
100	20	60	41	27	20	228.5	2	655	174409	SNCL-100
125	25	70	50	30	25	275	2	1,245	174410	SNCL-125

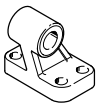
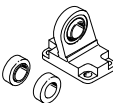
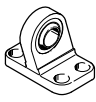
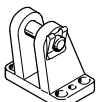
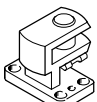
1) Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. 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.

Standard cylinders DSBG, to ISO 15552

Accessories

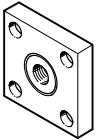
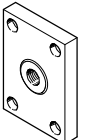
FESTO

Ordering data – Mounting attachments				Technical data → Internet: clevis foot			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
Clevis foot LNG				Clevis foot LSN			
	32	33890	LNG-32		32	5561	LSN-32
	40	33891	LNG-40		40	5562	LSN-40
	50	33892	LNG-50		50	5563	LSN-50
	63	33893	LNG-63		63	5564	LSN-63
	80	33894	LNG-80		80	5565	LSN-80
	100	33895	LNG-100		100	5566	LSN-100
	125	33896	LNG-125		125	6987	LSN-125
Clevis foot LSNG				Clevis foot LSNSG			
	32	31740	LSNG-32		32	31747	LSNSG-32
	40	31741	LSNG-40		40	31748	LSNSG-40
	50	31742	LSNG-50		50	31749	LSNSG-50
	63	31743	LSNG-63		63	31750	LSNSG-63
	80	31744	LSNG-80		80	31751	LSNSG-80
	100	31745	LSNG-100		100	31752	LSNSG-100
	125	31746	LSNG-125		125	31753	LSNSG-125
Clevis foot LBG				Right-angle clevis foot LQG			
	32	31761	LBG-32		32	31768	LQG-32
	40	31762	LBG-40		40	31769	LQG-40
	50	31763	LBG-50		50	31770	LQG-50
	63	31764	LBG-63		63	31771	LQG-63
	80	31765	LBG-80		80	31772	LQG-80
	100	31766	LBG-100		100	31773	LQG-100
	125	31767	LBG-125		125	31774	LQG-125

Ordering data – Mounting attachments, corrosion-resistant			Technical data ➔ Internet: crlng	
Designation	For Ø	Part No.	Type	
Clevis foot CRLNG				
	32	161840	CRLNG-32	
	40	161841	CRLNG-40	
	50	161842	CRLNG-50	
	63	161843	CRLNG-63	
	80	161844	CRLNG-80	
	100	161845	CRLNG-100	
	125	176951	CRLNG-125	

Standard cylinders DSBG, to ISO 15552

Accessories

Ordering data – Piston rod attachments				Technical data → Internet: piston rod attachment			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
Rod eye SGS				Rod clevis SGA			
	32	9261	SGS-M10x1,25		32	32954	SGA-M10x1,25
	40	9262	SGS-M12x1,25		40	10767	SGA-M12x1,25
	50	9263	SGS-M16x1,5		50	10768	SGA-M16x1,5
	63				63		
	80	9264	SGS-M20x1,5		80	10769	SGA-M20x1,5
	100				100		
	125	10774	SGS-M27x2		125	10770	SGA-M27x2
Rod clevis SG				Self-aligning rod coupler FK			
	32	6144	SG-M10x1,25		32	6140	FK-M10x1,25
	40	6145	SG-M12x1,25		40	6141	FK-M12x1,25
	50	6146	SG-M16x1,5		50	6142	FK-M16x1,5
	63				63		
	80	6147	SG-M20x1,5		80	6143	FK-M20x1,5
	100				100		
	125	14987	SG-M27x2-B		125	10485	FK-M27x2
Coupling piece KSG				Coupling piece KSZ			
	32	32963	KSG-M10x1,25		32	36125	KSZ-M10x1,25
	40	32964	KSG-M12x1,25		40	36126	KSZ-M12x1,25
	50	32965	KSG-M16x1,5		50	36127	KSZ-M16x1,5
	63				63		
	80	32966	KSG-M20x1,5		80	36128	KSZ-M20x1,5
	100				100		
	125	32967	KSG-M27x2		125	–	–
Ordering data – Piston rod attachments, corrosion-resistant				Technical data → Internet: crsg			
Designation	For Ø	Part No.	Type	Designation	For Ø	Part No.	Type
Rod eye CRS GS				Rod clevis CR SG			
	32	195582	CRSGS-M10x1,25		32	13569	CRSG-M10x1,25
	40	195583	CRSGS-M12x1,25		40	13570	CRSG-M12x1,25
	50	195584	CRSGS-M16x1,5		50	13571	CRSG-M16x1,5
	63				63		
	80	195585	CRSGS-M20x1,5		80	13572	CRSG-M20x1,5
	100				100		
	125	195586	CRSGS-M27x2		125	185361	CRSG-M27x2

Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

Protective bellows kit DADB



General technical data							
Type DADB-V6-		32	40	50	63	80	100
Max. stroke range of cylinder ¹⁾	[mm]	10 ... 500	10 ... 500	10 ... 500	10 ... 500	10 ... 500	10 ... 500
Type of mounting		Via threaded pin					
Mounting position		Any					
Resistance to media		Dust, chippings, oil, grease, fuel (→ Internet: Resistance to media)					
Ambient temperature ²⁾	[°C]	-10 ... +80					
Protection class		IP54					
Corrosion resistance class CRC ³⁾		3					

1) In combination with the protective bellows kit DADB

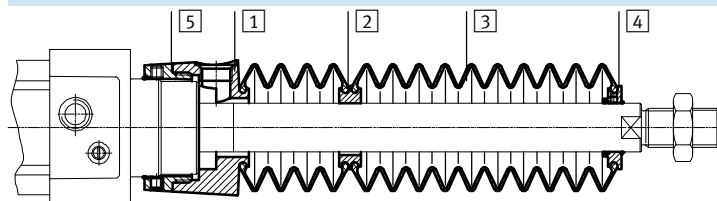
2) Note operating range of proximity sensors and cylinder

3) Corrosion resistance class 3 according to Festo standard 940 070

Components subject to high corrosion stress. Externally visible parts with primarily functional surface requirements which are in direct contact with a normal industrial environment or media such as solvents and cleaning agents.

Materials

Sectional view



Bellows

1	Connection	Polyamide
2	Adapter	Polyamide
3	Bellows	Nitrile rubber
4	End piece	Polyamide
5	Connector	Polyamide
-	O-ring	Nitrile rubber
Note on materials		Free of copper and PTFE
		RoHS-compliant

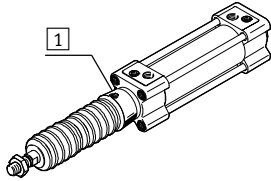
Weight [g]							
Type DADB-V6-		32	40	50	63	80	100
Stroke [mm]							
10 ... 50		29	42	71	69	99	124
51 ... 125		41	56	91	89	127	152
126 ... 175		52	68	105	103	140	165
176 ... 250		66	85	129	127	193	218
251 ... 300		79	100	147	145	231	255
301 ... 350		92	115	166	164	268	293
351 ... 375		92	115	167	165	259	284
376 ... 425		104	129	185	183	296	321
426 ... 475		117	144	204	202	334	359
476 ... 500		117	144	205	203	324	349

Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

Travel speed v as a function of tubing length l



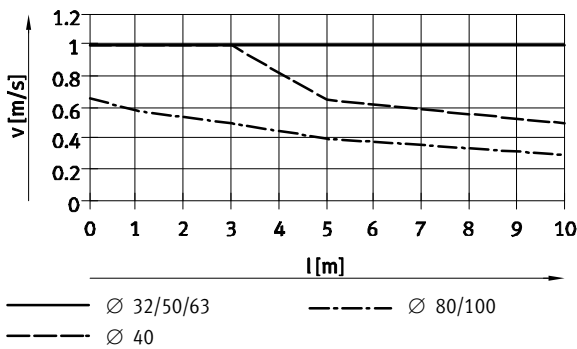
The protective bellows kit is a leak-free system. To prevent unwanted media from being drawn in, the supply and exhaust air must be ducted via a

venting hole in the connection part **1**.

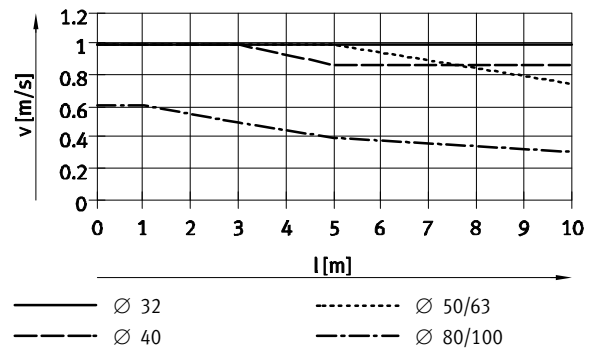
The pressure generated in the protective bellows kit by the positioning motion is primarily

defined by the travel speed and tubing length. The recommended tubing length based on the travel speed of the drive can be read from the graph.

Advancing



Retracting



Note

The push-in fittings opposite must be used for the venting hole. Silencers can be used as an alternative. This reduces the travel speed slightly.

Tubing length and push-in fitting for venting hole

Ø [mm]	Tubing O.D. [mm]	Push-in fitting Part No.	Type
32, 40	8	186109	QS-G $\frac{1}{8}$ -8-I
		533929	QS-F-G $\frac{1}{8}$ -8-I
		533880	QS-F-G $\frac{1}{8}$ -8H
50, 63, 80, 100	12	186350	QS-G $\frac{1}{4}$ -12
		533848	QS-F-G $\frac{1}{4}$ -12
		533884	QS-F-G $\frac{1}{4}$ -12H

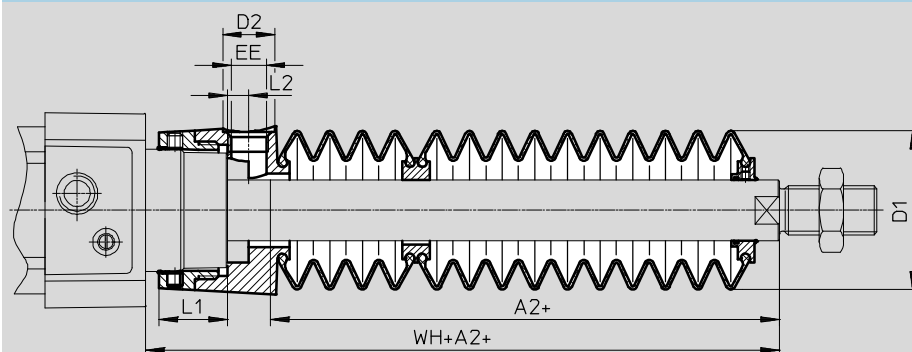
Standard cylinders DSBG, to ISO 15552

Accessories

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Dimensions

Download CAD Data → www.festo.com/us/cad



+ = plus stroke length

Ø Stroke [mm]	32							40						
	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2
10 ... 50	29	38	14	G ¹ / ₈	12.9	5.4	55	28	46	14	G ¹ / ₈	16.3	5.4	56.7
51 ... 125	47						73	43						71.7
126 ... 175	61						87	56						84.7
176 ... 250	80						106	72						100.7
251 ... 300	96						122	86						114.7
301 ... 350	112						138	100						128.7
351 ... 375	114						140	101						129.7
376 ... 425	130						156	115						143.7
426 ... 475	145						171	130						158.7
476 ... 500	147						173	131						159.7

Ø Stroke [mm]	50							63						
	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2
10 ... 50	28	57	17	G ¹ / ₄	22.35	7	63.6	28	57	17	G ¹ / ₄	22.4	7	63.9
51 ... 125	46						81.6	46						81.9
126 ... 175	56						91.6	56						91.9
176 ... 250	73						108.6	73						108.9
251 ... 300	86						121.6	86						121.9
301 ... 350	97						132.6	97						132.9
351 ... 375	105						140.6	105						140.9
376 ... 425	116						151.6	116						151.9
426 ... 475	126						161.6	126						161.9
476 ... 500	134						169.6	134						169.9

Ø Stroke [mm]	80							100						
	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2	A2 ¹⁾	D1 max.	D2	EE	L1	L2	WH+A2
10 ... 50	25	93	17	G ¹ / ₄	28	4	70.4	25	93	17	G ¹ / ₄	28	4	74.3
51 ... 125	37						82.4	37						86.3
126 ... 175	49						94.4	49						98.3
176 ... 250	62						107.4	62						111.3
251 ... 300	74						119.4	74						123.3
301 ... 350	86						131.4	86						135.3
351 ... 375	87						132.4	87						136.3
376 ... 425	98						143.4	98						147.3
426 ... 475	110						155.4	110						159.3
476 ... 500	111						156.4	111						160.3

1) The dimension corresponds to the E value (piston rod extension) of the drive

Standard cylinders DSBG, to ISO 15552

Accessories

Ordering data – Protective bellows kit

An extended piston rod (order code E) is required when using a protective bellows kit → Ordering data – Modular products.

The necessary dimension for order code E as a function of piston diameter and cylinder stroke as well as the corresponding protective bellows kit is indicated in the table below:

Order example:

Selected standard cylinder:

DSBG-32-320-PPV-A-...

The dimension for the corresponding E value (see table):
112 mm

Complete type code for standard cylinder:

DSBG-32-320-PPV-A-...-112E

The corresponding protective bellows kit:

DADB-V6-32-S301-350

Cylinder data			Protective bellows kit	
Ø	Stroke	Dimension for E	Part No.	Type
[mm]	[mm]	[mm]		
32	10 ... 50	29	553271	DADB-V6-32-S10-50
	51 ... 125	47	553273	DADB-V6-32-S51-125
	126 ... 175	61	553275	DADB-V6-32-S126-175
	176 ... 250	80	553277	DADB-V6-32-S176-250
	251 ... 300	96	553279	DADB-V6-32-S251-300
	301 ... 350	112	553281	DADB-V6-32-S301-350
	351 ... 375	114	553283	DADB-V6-32-S351-375
	376 ... 425	130	553285	DADB-V6-32-S376-425
	426 ... 475	145	553287	DADB-V6-32-S426-475
	476 ... 500	147	553289	DADB-V6-32-S476-500
50	10 ... 50	28	553311	DADB-V6-50-S10-50
	51 ... 125	46	553313	DADB-V6-50-S51-125
	126 ... 175	56	553315	DADB-V6-50-S126-175
	176 ... 250	73	553317	DADB-V6-50-S176-250
	251 ... 300	86	553319	DADB-V6-50-S251-300
	301 ... 350	97	553321	DADB-V6-50-S301-350
	351 ... 375	105	553323	DADB-V6-50-S351-375
	376 ... 425	116	553325	DADB-V6-50-S376-425
	426 ... 475	126	553327	DADB-V6-50-S426-475
	476 ... 500	134	553329	DADB-V6-50-S476-500
63	10 ... 50	28	553331	DADB-V6-63-S10-50
	51 ... 125	46	553333	DADB-V6-63-S51-125
	126 ... 175	56	553335	DADB-V6-63-S126-175
	176 ... 250	73	553337	DADB-V6-63-S176-250
	251 ... 300	86	553339	DADB-V6-63-S251-300
	301 ... 350	97	553341	DADB-V6-63-S301-350
	351 ... 375	105	553343	DADB-V6-63-S351-375
	376 ... 425	116	553345	DADB-V6-63-S376-425
	426 ... 475	126	553347	DADB-V6-63-S426-475
	476 ... 500	134	553349	DADB-V6-63-S476-500
80	10 ... 50	25	553351	DADB-V6-80-S10-50
	51 ... 125	37	553353	DADB-V6-80-S51-125
	126 ... 175	49	553355	DADB-V6-80-S126-175
	176 ... 250	62	553357	DADB-V6-80-S176-250
	251 ... 300	74	553359	DADB-V6-80-S251-300
	301 ... 350	86	553361	DADB-V6-80-S301-350
	351 ... 375	87	553363	DADB-V6-80-S351-375
	376 ... 425	98	553365	DADB-V6-80-S376-425
	426 ... 475	110	553367	DADB-V6-80-S426-475
	476 ... 500	111	553369	DADB-V6-80-S476-500
100	10 ... 50	25	553371	DADB-V6-100-S10-50
	51 ... 125	37	553373	DADB-V6-100-S51-125
	126 ... 175	49	553375	DADB-V6-100-S126-175
	176 ... 250	62	553377	DADB-V6-100-S176-250
	251 ... 300	74	553379	DADB-V6-100-S251-300
	301 ... 350	86	553381	DADB-V6-100-S301-350
	351 ... 375	87	553383	DADB-V6-100-S351-375
	376 ... 425	98	553385	DADB-V6-100-S376-425
	426 ... 475	110	553387	DADB-V6-100-S426-475
	476 ... 500	111	553389	DADB-V6-100-S476-500

Standard cylinders DSBG, to ISO 15552

Accessories

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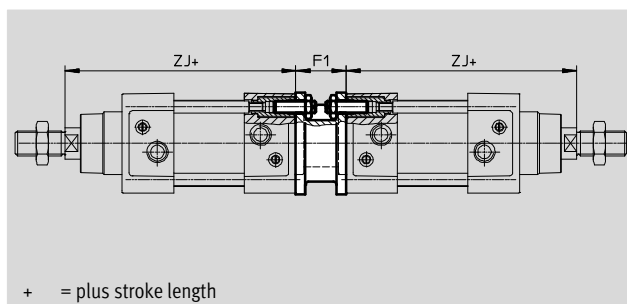
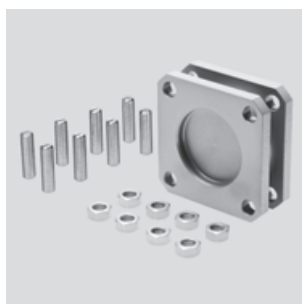
Multi-position kit DPNC

Materials:

Flange: Wrought aluminium alloy

Threaded pins, hex nuts: Galvanised steel

steel



Dimensions and ordering data						
For Ø	F1	ZJ	Max. overall stroke length	Weight	Part No.	Type
[mm]		+1.8	[mm]	[g]		
32	27	119.1	1,000	85	174418	DPNC-32
40	27	133.9	1,000	115	174419	DPNC-40
50	32	141.8	1,000	210	174420	DPNC-50
63	28	157.1	1,000	360	174421	DPNC-63
80	38	173.6	1,000	620	174422	DPNC-80
100	38	187.5	1,000	1,190	174423	DPNC-100
125	48	225	1,000	1,600	174424	DPNC-125

Note

The maximum overall stroke length must not be exceeded when combining cylinders and multi-position kits.

Connecting two cylinders with identical piston diameters as a 3 or 4-position cylinder

A 3 or 4-position cylinder consists of two separate cylinders whose piston rods advance in opposing directions.

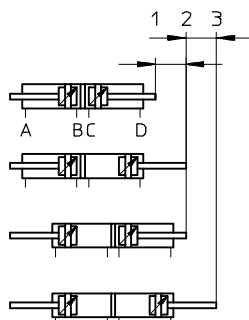
This means that depending on actuation and stroke division, this type of cylinder can assume up to four

positions. In each case the cylinder is driven precisely against a stop. Note that when one end of the piston rod is

fixed, the cylinder barrel executes the movement. The cylinder's connections must be flexible.

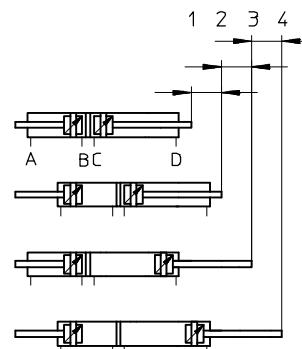
To achieve 3 positions

Two cylinders with identical stroke length must be connected together.



To achieve 4 positions

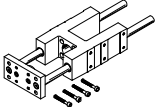
Two cylinders with different stroke lengths must be connected together.

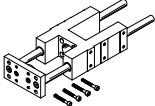


Standard cylinders DSBG, to ISO 15552

Accessories

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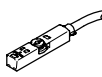
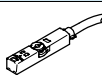
Ordering data – Guide units for fixed strokes (recirculating ball bearing guide only)				Technical data → Internet: festo		
	Stroke [mm]	Part No.	Type		Stroke [mm]	Part No. Type
	For Ø 32 mm				For Ø 40 mm	
	10 ... 50	34493	FENG-32-50-KF		10 ... 50	34499 FENG-40-50-KF
	10 ... 100	34494	FENG-32-100-KF		10 ... 100	34500 FENG-40-100-KF
	10 ... 160	34495	FENG-32-160-KF		10 ... 160	34501 FENG-40-160-KF
	10 ... 200	34496	FENG-32-200-KF		10 ... 200	34502 FENG-40-200-KF
	10 ... 250	150289	FENG-32-250-KF		10 ... 250	34503 FENG-40-250-KF
	10 ... 320	34497	FENG-32-320-KF		10 ... 320	34504 FENG-40-320-KF
	10 ... 400	150290	FENG-32-400-KF		10 ... 400	150291 FENG-40-400-KF
	10 ... 500	34498	FENG-32-500-KF		10 ... 500	34505 FENG-40-500-KF
	For Ø 50 mm				For Ø 63 mm	
	10 ... 50	34506	FENG-50-50-KF		10 ... 50	34513 FENG-63-50-KF
	10 ... 100	34507	FENG-50-100-KF		10 ... 100	34514 FENG-63-100-KF
	10 ... 160	34508	FENG-50-160-KF		10 ... 160	34515 FENG-63-160-KF
	10 ... 200	34509	FENG-50-200-KF		10 ... 200	34516 FENG-63-200-KF
	10 ... 250	34510	FENG-50-250-KF		10 ... 250	34517 FENG-63-250-KF
	10 ... 320	34511	FENG-50-320-KF		10 ... 320	34518 FENG-63-320-KF
	10 ... 400	150292	FENG-50-400-KF		10 ... 400	34519 FENG-63-400-KF
	10 ... 500	34512	FENG-50-500-KF		10 ... 500	34520 FENG-63-500-KF
	For Ø 80 mm				For Ø 100 mm	
	10 ... 50	34521	FENG-80-50-KF		10 ... 50	34529 FENG-100-50-KF
	10 ... 100	34522	FENG-80-100-KF		10 ... 100	34530 FENG-100-100-KF
	10 ... 160	34523	FENG-80-160-KF		10 ... 160	34531 FENG-100-160-KF
	10 ... 200	34524	FENG-80-200-KF		10 ... 200	34532 FENG-100-200-KF
	10 ... 250	34525	FENG-80-250-KF		10 ... 250	34533 FENG-100-250-KF
	10 ... 320	34526	FENG-80-320-KF		10 ... 320	34534 FENG-100-320-KF
	10 ... 400	34527	FENG-80-400-KF		10 ... 400	34535 FENG-100-400-KF
	10 ... 500	34528	FENG-80-500-KF		10 ... 500	34536 FENG-100-500-KF

Ordering data – Guide units for variable strokes				Technical data → Internet: festo	
	For Ø [mm]	Stroke [mm]	With recirculating ball bearing guide Part No. Type	With plain-bearing guide Part No. Type	
	32	10 ... 500	34487 FENG-32-...-KF	34481 FENG-32-...	
	40	10 ... 500	34488 FENG-40-...-KF	34482 FENG-40-...	
	50	10 ... 500	34489 FENG-50-...-KF	34483 FENG-50-...	
	63	10 ... 500	34490 FENG-63-...-KF	34484 FENG-63-...	
	80	10 ... 500	34491 FENG-80-...-KF	34485 FENG-80-...	
	100	10 ... 500	34492 FENG-100-...-KF	34486 FENG-100-...	

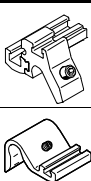
Standard cylinders DSBG, to ISO 15552

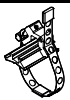
Accessories

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Ordering data – Proximity sensors for T-slot, magneto-resistive					Technical data → Internet: smt	
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type
N/O contact						
	Insertable in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2,5-OE
			Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0,3-M8D
			Plug M12x1, 3-pin	0.3	574337	SMT-8M-A-PS-24V-E-0,3-M12
		NPN	Cable, 3-wire	2.5	574338	SMT-8M-A-NS-24V-E-2,5-OE
			Plug M8x1, 3-pin	0.3	574339	SMT-8M-A-NS-24V-E-0,3-M8D
N/C contact						
	Insertable in the slot from above, flush with the cylinder profile, short design	PNP	Cable, 3-wire	7.5	574340	SMT-8M-A-PO-24V-E-7,5-OE

Ordering data – Proximity sensors for T-slot, magnetic reed						Technical data → Internet: sme	
	Type of mounting	Switching output	Electrical connection	Cable length [m]	Part No.	Type	
N/O contact							
	Insertable in the slot from above, flush with the cylinder profile	Contacting	Cable, 3-wire	2.5	543862	SME-8M-DS-24V-K-2,5-OE	
				5.0	543863	SME-8M-DS-24V-K-5,0-OE	
			Cable, 2-wire	2.5	543872	SME-8M-ZS-24V-K-2,5-OE	
			Plug M8x1, 3-pin	0.3	543861	SME-8M-DS-24V-K-0,3-M8D	
N/C contact							
	Insertable in the slot from above, flush with the cylinder profile	Contacting	Cable, 3-wire	7.5	546799	SME-8M-DO-24V-K-7,5-OE	

Ordering data – Mounting kits for proximity sensor SME/SMT-8						Part No.	Type
	For Ø	Materials					
	32 ... 100	Rail: Anodised wrought aluminium alloy Screws: High-alloy stainless steel Free of copper and PTFE				537806	SMBZ-8-32/100
	125					1451483	DASP-M4-125-A

Ordering data – Mounting kit for proximity sensor SME/SMT-8					Technical data → Internet: smbr	
	For Ø	Mounting	CRC ¹⁾	Part No.	Type	
	32 ... 100	On the cylinder barrel via clamping strap	4	538937	SMBR-8-8/100-S6	

1) Corrosion resistance class 4 to Festo standard 940 070
Components subject to high corrosion stress. Parts used with aggressive media, e.g. in the food or chemical industry. These applications should be supported with special tests with the media if required.

Standard cylinders DSBG, to ISO 15552

Accessories

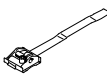
Ordering data – Connecting cables					Technical data → Internet: nebu	
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Type	
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541333	NEBU-M8G3-K-2.5-LE3	
			5	541334	NEBU-M8G3-K-5-LE3	
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541363	NEBU-M12G5-K-2.5-LE3	
			5	541364	NEBU-M12G5-K-5-LE3	
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541338	NEBU-M8W3-K-2.5-LE3	
			5	541341	NEBU-M8W3-K-5-LE3	
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541367	NEBU-M12W5-K-2.5-LE3	
			5	541370	NEBU-M12W5-K-5-LE3	

Ordering data – Proximity sensor in block design, magneto-resistive					Technical data → Internet: smto	
	Mounting	Switching output	Electrical connection		Cable length [m]	Part No. Type
			Cable	M8 plug		
N/O contact						
	Via accessories	PNP	3-wire	–	2.5	151683 SMT0-1-PS-K-LED-24-C
			–	3-pin	–	151685 SMT0-1-PS-S-LED-24-C
		NPN	3-wire	–	2.5	151684 SMT0-1-NS-K-LED-24-C
			–	3-pin	–	151686 SMT0-1-NS-S-LED-24-C

Ordering data – Proximity sensor in block design, magnetic reed					Technical data → Internet: smeo	
	Mounting	Electrical connection		Cable length [m]	Part No.	Type
		Cable	M8 plug			
N/O contact						
	Via accessories	3-wire	–	2.5	30459	SME0-1-LED-24-B
		3-wire	–	5.0	151672	SME0-1-LED-24-K5-B
		–	3-pin	–	150848	SME0-1-S-LED-24-B

Ordering data – Mounting kits for proximity sensor SME0/SMT0-1				Technical data → Internet: smb	
	For Ø	Mounting	Part No.	Type	
	32 ... 50 mm	Directly on the mounting or tie rod	36162	SMB-2-B	
	63 ... 100 mm		36163	SMB-3-B	
	125 mm		11886	SMB-1	

Ordering data – Proximity sensor in block design, pneumatic			Technical data → Internet: smpo	
	Mounting	Pneumatic connection	Part No.	Type
3/2-way valve, normally closed				
	Via accessories	Barbed connector for tubing I.D. 3 mm	31008	SMPO-1-H-B

Ordering data – Mounting kit for proximity sensor SMPO-1				Technical data → Internet: smbs	
	For Ø	Mounting	Part No.	Type	
	32 ... 100 mm	On the cylinder barrel via clamping strap	151226	SMBS-2	

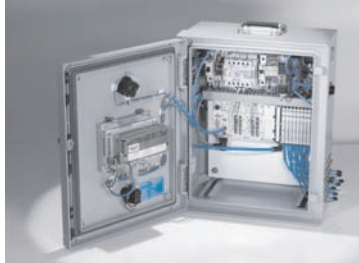
Product Range and Company Overview

A Complete Suite and Company Overview

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



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Electromechanical actuators, motors, controllers & drivers



Pneumatics
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To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.



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Festo Regional Contact Center

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Product Range and Company Overview

A Complete Suite and Company Overview

Our experienced engineers provide complete support at every stage of your development process, including: conceptualization, analysis, engineering, design, assembly, documentation, validation, and production.



Custom Automation Components
Complete custom engineered solutions



Custom Control Cabinets
Comprehensive engineering support and on-site services



Complete Systems
Shipment, stocking and storage services

The Broadest Range of Automation Components

With a comprehensive line of more than 30,000 automation components, Festo is capable of solving the most complex automation requirements.



Electromechanical
Electromechanical actuators, motors, controllers & drivers



Pneumatics
Pneumatic linear and rotary actuators, valves, and air supply



PLCs and I/O Devices
PLC's, operator interfaces, sensors and I/O devices

Supporting Advanced Automation... As No One Else Can!

Festo is a leading global manufacturer of pneumatic and electromechanical systems, components and controls for industrial automation, with more than 16,000 employees in 60 national headquarters serving more than 180 countries. For more than 80 years, Festo has continuously elevated the state of manufacturing with innovations and optimized motion control solutions that deliver higher performing, more profitable automated manufacturing and processing equipment. Our dedication to the advancement of automation extends beyond technology to the education and development of current and future automation and robotics designers with simulation tools, teaching programs, and on-site services.

Quality Assurance, ISO 9001 and ISO 14001 Certifications

Festo Corporation is committed to supply all Festo products and services that will meet or exceed our customers' requirements in product quality, delivery, customer service and satisfaction.

To meet this commitment, we strive to ensure a consistent, integrated, and systematic approach to management that will meet or exceed the requirements of the ISO 9001 standard for Quality Management and the ISO 14001 standard for Environmental Management.

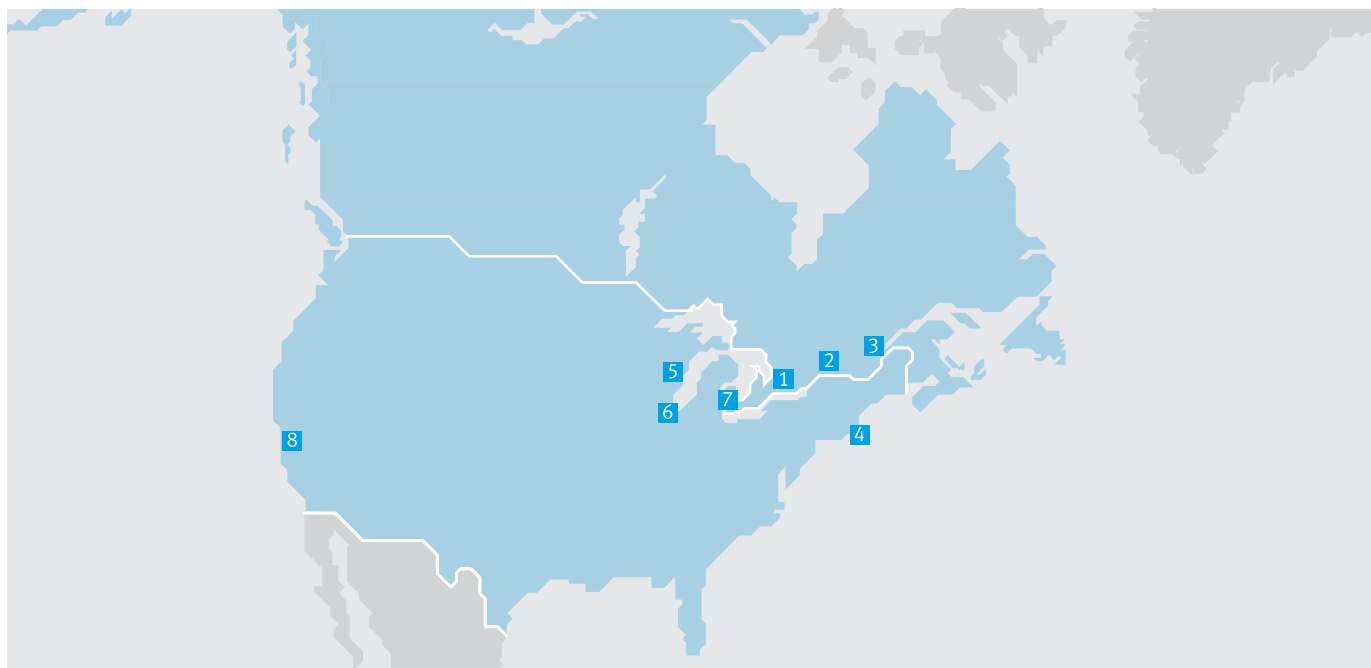


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