Standard cylinders DSBG, to ISO 15552

FESTO

New

Standard cylinders DSBG, to ISO 15552

Key features

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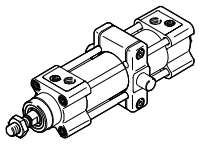
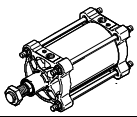
At a glance

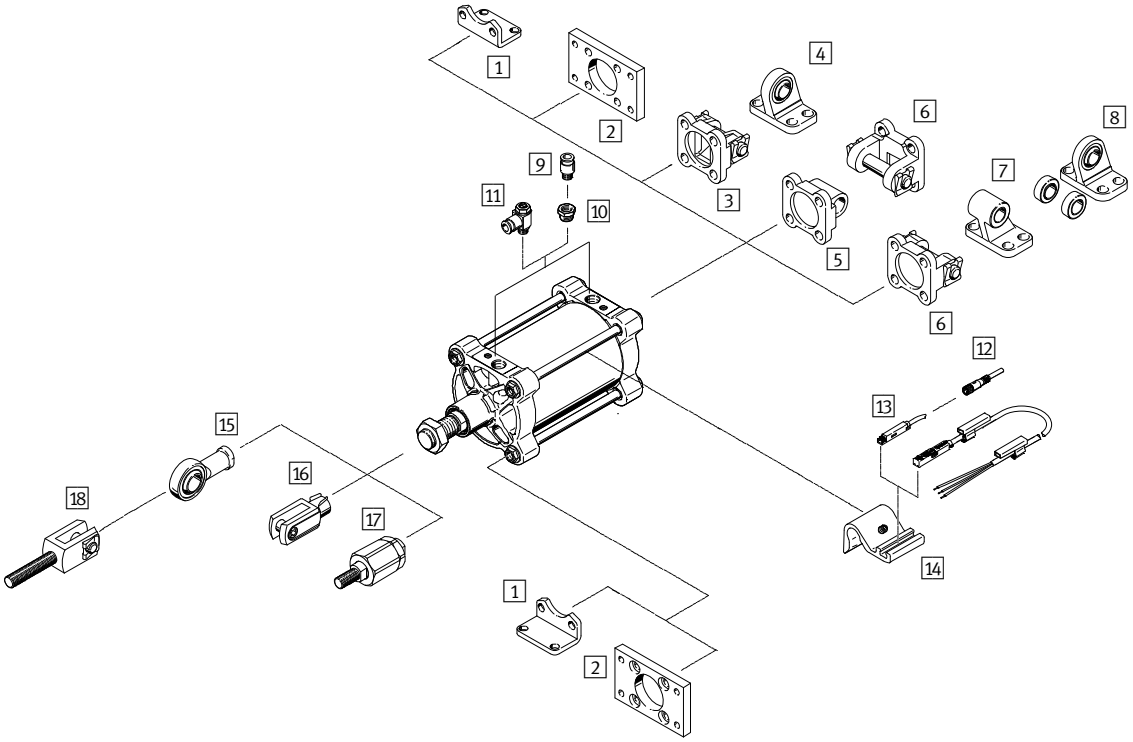
- Standards-based cylinders to ISO 15552 (corresponds to the withdrawn standards ISO 6431, DIN ISO 6431, VDMA 24 562, NF E 49 003.1 and UNI 10290)
- EX4: for use in potentially explosive areas
- Sturdy tie rod design
- Double-acting
- For contactless position sensing
- Extensive range of accessories makes it possible to install the cylinder virtually anywhere
- Choice of two cushioning types:
  - P cushioning: elastic cushioning rings/pads at both ends
  - PPV cushioning: pneumatic cushioning, adjustable at both ends
- The variants can be configured according to individual needs using a modular product system
- High flexibility thanks to the wide range of variants

Variants from the modular product system

Symbol	Features	Description
	T Through piston rod	For working at both ends, equal force in the forward and return stroke, for attaching external stops
	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
	T4 Heat-resistant seals	Temperature range 0 ... +150 °C
	...E Piston rod extension	–
	...L Piston rod thread extension	–
	M36 Piston rod thread	Piston rod thread version M36 (Standard: precision thread M36x2)
	V Central swivel mounting	Swivel mounting, clamped centrally between end caps
	B Integrated stud bolts	• B1: At both ends • B2: On the bearing cap • B3: On the end cap

Standard cylinders DSBG, to ISO 15552

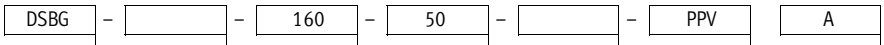
Peripherals overview



Mounting components and accessories			
		Brief description	→ Page/Internet
1	Foot mounting HNG	For bearing and end cap, corresponds to MS1 to ISO 15552	14
2	Flange mounting FNG	For bearing or end cap, corresponds to MF1/MF2 to ISO 15552	14
3	Swivel flange SNG	For end caps	15
4	Clevis foot LSNG	With spherical bearing	17
5	Swivel flange SNGL	For end cap, corresponds to MP2 to ISO 15552	16
6	Swivel flange SNGB	For end cap, corresponds to MP2 to ISO 15552	15
7	Clevis foot LN/LNG	For swivel flange SNGB	17
8	Clevis foot LSN	With spherical bearing	17
9	Push-in fitting QS	For connecting compressed air tubing with standard outside diameters	quick star
10	Reducing nipple NPFC	For connecting QS fittings with thread G½ to cylinders with thread G¾	18
11	One-way flow control valve GRLA	For regulating speed	grla
12	Connecting cable NEBU	–	18
13	Proximity sensor SME/SMT-8	For sensing the piston position	18
14	Sensor bracket DASP	For proximity sensors SME/SMT-8	18
15	Rod eye SGS	With spherical bearing	17
16	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane	17
17	Self-aligning rod coupler FK	For compensating radial and angular misalignments	17
18	Rod clevis SGA	Suitable for spherical mounting of cylinders in conjunction with rod eye SGS	17
–	Trunnion support LNZG	For mounting the cylinder in combination with central swivel mounting	16

Standard cylinders DSBG, to ISO 15552

Type codes



Type	
Double-acting	
DSBG	Standard cylinder

Central swivel mounting	
–	Without
V	Centrally clamped

Piston ∅ [mm]

Stroke [mm]

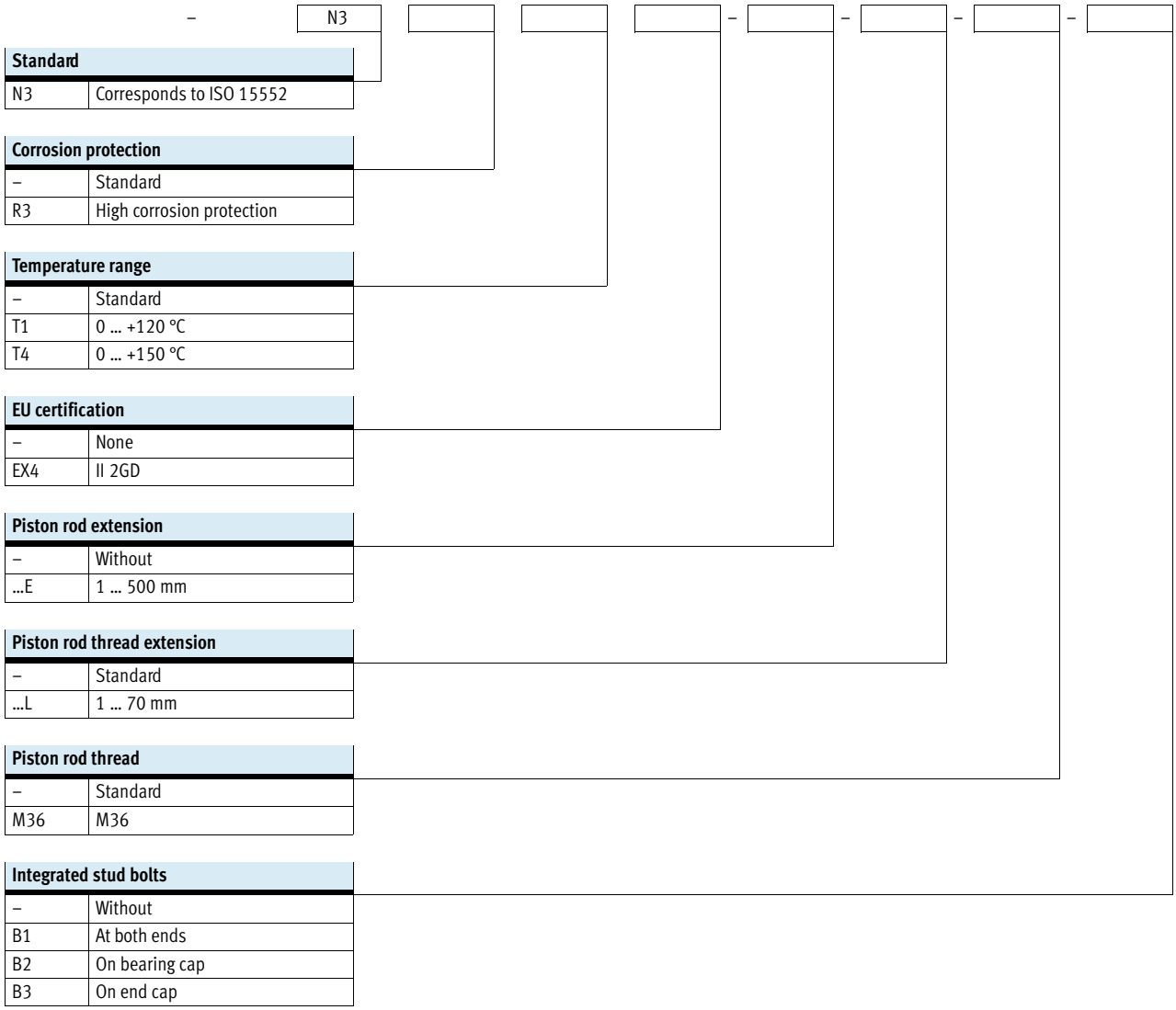
Piston rod	
–	At one end
T	Through piston rod

Cushioning	
P	Elastic cushioning rings/pads at both ends
PPV	Pneumatic cushioning, adjustable at both ends

Position sensing	
A	Via proximity sensor

Standard cylinders DSBG, to ISO 15552

Type codes



Standard	
N3	Corresponds to ISO 15552

Corrosion protection	
–	Standard
R3	High corrosion protection

Temperature range	
–	Standard
T1	0 ... +120 °C
T4	0 ... +150 °C

EU certification	
–	None
EX4	II 2GD

Piston rod extension	
–	Without
...E	1 ... 500 mm

Piston rod thread extension	
–	Standard
...L	1 ... 70 mm

Piston rod thread	
–	Standard
M36	M36

Integrated stud bolts	
–	Without
B1	At both ends
B2	On bearing cap
B3	On end cap

New

Standard cylinders DSBG, to ISO 15552

Technical data

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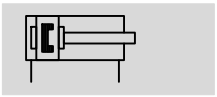
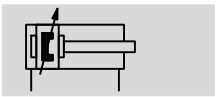
Function

P cushioning



PPV cushioning



Diameter
160, 200 mm

Stroke length
1 … 2,700 mm

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General technical data			
Piston ∅		160	200
Pneumatic connection		G¾	G¾
Stroke[1]			
DSBG-...	[mm]	1 … 2,700	
DSBG-...-...E	[mm]	1 … 2,000	
DSBG-...-...L	[mm]	1 … 2,000	
Design		Piston/piston rod/profile barrel	
Mode of operation		Double-acting	
Cushioning			
DSBG-...-P		Elastic cushioning rings/pads at both ends	
DSBG-...-PPV		Pneumatic cushioning, adjustable at both ends	
Cushioning length	[mm]	48	
Position sensing		Via proximity sensor	
Type of mounting		Via internal thread/accessories	
Mounting position		Any	

1) In combination with the position sensing option, the minimum stroke is 10 mm

Operating and environmental conditions			
Piston ∅		160	200
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	[bar]	0.6 … 10	
Ambient temperature[1]			
DSBG-...	[°C]	–20 … +80	
DSBG-...-T1	[°C]	0 … +120	
DSBG-...-T4	[°C]	0 … +150	
DSBC-...-EX4	[°C]	–20 … +60	
Corrosion resistance class CRC			
DSBG-...		2[2]	
DSBG-...-R3		3[3]	

1) Note operating range of proximity sensors.
2) 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 the surrounding industrial environment or media such as coolants or lubricating agents.
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 the surrounding industrial environment or media such as solvents and cleaning agents.

Standard cylinders DSBG, to ISO 15552

Technical data

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ATEX[1]	
Explosion-proof ambient temperature	−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) Note the ATEX certification of the accessories.

Forces [N] and impact energy [J]		
Piston ∅	160	200
Theoretical force at 6 bar, advancing	12,064	18,850
Theoretical force at 6 bar, retracting	11,310	18,096
Max. impact energy in the end positions		
DSBG-...	3.3	4.8
DSBG-...-T1/-T4	2.3	4

Permissible impact velocity:

$$v_{perm.} = \sqrt{\frac{2 \times E_{perm.}}{m_{Intrinsic} + m_{Load}}}$$

Maximum permissible load:

$$m_{Load} = \frac{2 \times E_{perm.}}{v^2} - m_{Intrinsic}$$

$v_{perm.}$ Permissible impact velocity
$E_{perm.}$ Maximum impact energy
$m_{Intrinsic}$ Moving mass (drive)
m_{Load} Moving payload

Weight [g]		
Piston ∅	160	200
DSBG-...		
Product weight with 0 mm stroke	11,751	15,493
Additional weight per 10 mm stroke	208	246
Moving mass with 0 mm stroke	4,292	5,348
Moving mass per 10 mm stroke	97	97
DSBG-...-T		
Product weight with 0 mm stroke	13,487	17,356
Additional weight per 10 mm stroke	304	343
Moving mass with 0 mm stroke	6,028	7,210
Moving mass per 10 mm stroke	194	194

Standard cylinders DSBG, to ISO 15552

Technical data

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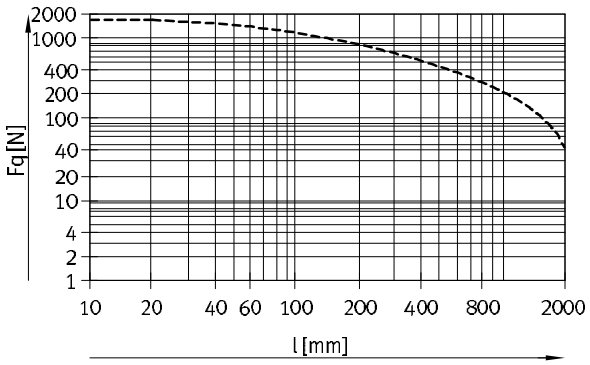
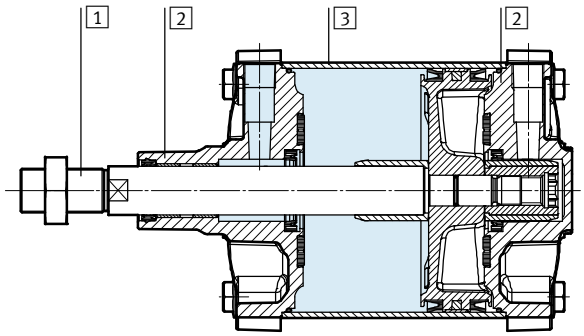
Max. lateral force Fq as a function of stroke length l



------- ∅ 160, 200

Materials

Sectional view



Standard cylinder		
1	Piston rod, tie rod	
	DSBG-...	High-alloy steel
	DSBG-...-R3	High-alloy stainless steel
2	Cover	Coated die-cast aluminium
3	Cylinder barrel	Anodised wrought aluminium alloy
–	Piston rod seal	
	DSBG-...	NBR
	DSBG-...-T1/-T4	FPM
	Cushioning seal	
	DSBG-...	PUR
	DSBG-...-T1/-T4	FPM
	Cushioning boss	
	DSBG-...	POM
	DSBG-...-T1/-T4	FPM
–	Note on materials	
	DSBG-...	RoHS-compliant
	DSBG-...-T4	Contains PWIS (paint-wetting impairment substances)

Standard cylinders DSBG, to ISO 15552

Technical data

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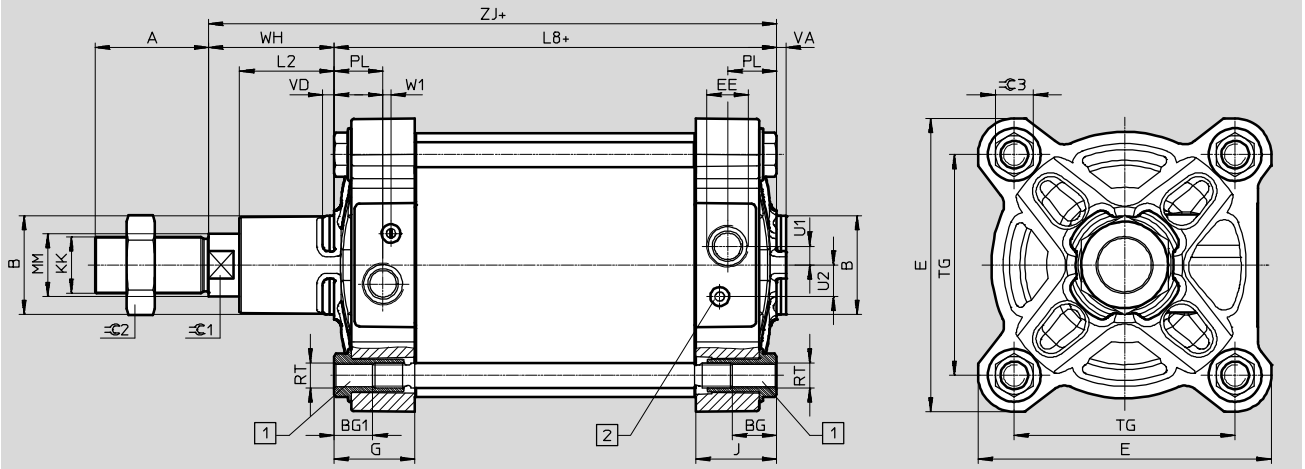
Dimensions Download CAD data ➔ **www.festo.com**



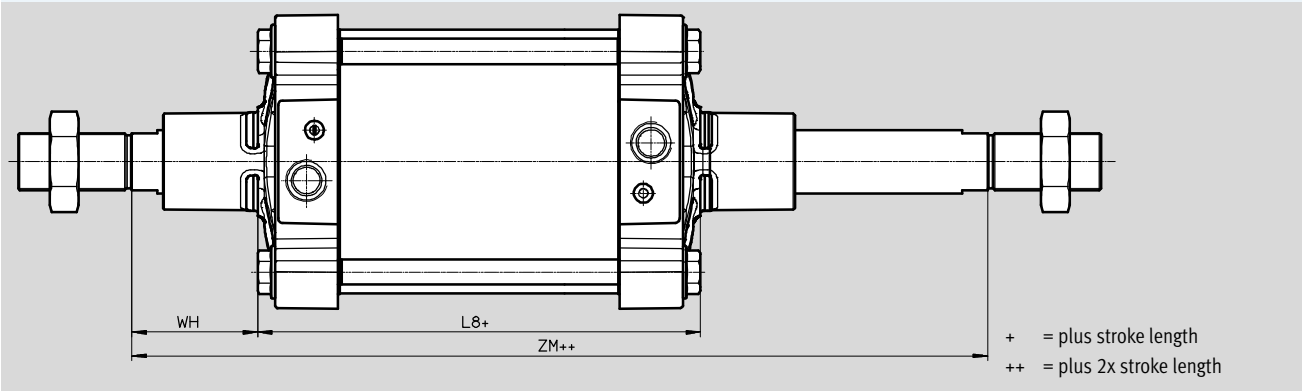
\+ = plus stroke length

1 Socket head screw with female thread for mounting components

2 Regulating screw for adjustable end-position cushioning (PPV)

Variant

T – Through piston rod



\+ = plus stroke length

++ = plus 2x stroke length

∅ [mm]	A −0.5	B ∅ d11	BG Min.	BG1 ±0.5	E ±0.5	EE	G	J
160	72	65	24	25	186	G¾	52	52
200	72	75	24	25	230	G¾	48.2	50.2

∅ [mm]	KK DSGB-...	KK DSGB-...-M36	L2	L8	MM	PL	RT	TG ±1.1	U1	U2
160	M36x2	M36	60	180±1.1	40	31	M16	140	12	20
200	M36x2	M36	70	180±1	40	30	M16	175	12	20

∅ [mm]	VA −1	VD	W1	WH	ZJ +1	ZM	=C1 h14	=C2	=C3 h13
160	6	7.5	5	80±1.3	260	342±1	36	55	24
200	6	7.5	5	95±1.4	275	372±1.2	36	55	24

Standard cylinders DSBG, to ISO 15552

Technical data

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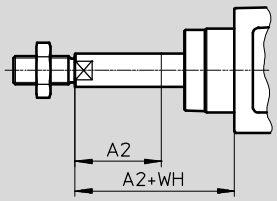
Dimensions – Variants Download CAD data ➔ **www.festo.com**

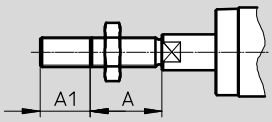
...E – Piston rod extension



Note

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

...L – Piston rod thread extension

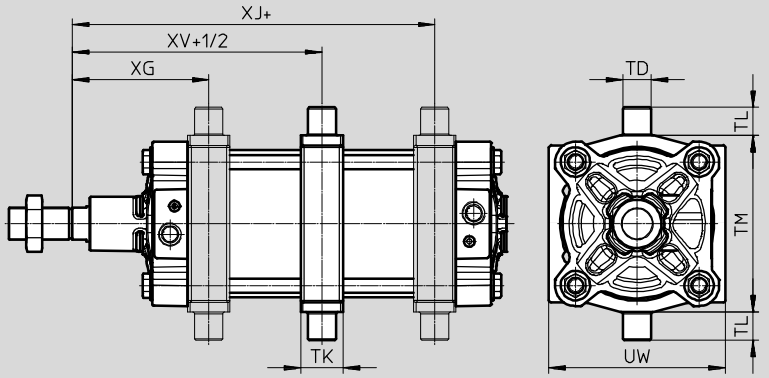


Note

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

∅ [mm]	C	A1		A2		WH
		Min.	Max.	Min.	Max.	
160	72	1	70	1	500	80±1.3
200	72	1	100	1	500	95±1.4

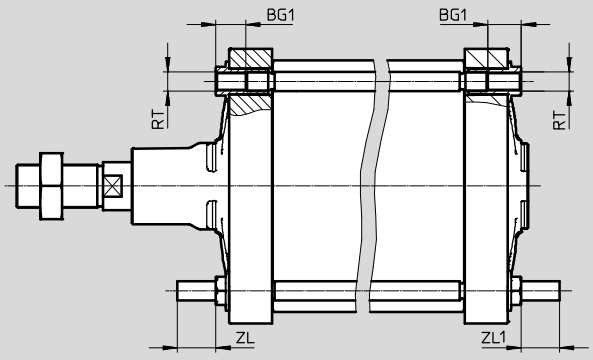
V – Central swivel mounting



\+ = plus stroke length
+½ = plus half stroke length

∅ [mm]	TD ∅ e8	TK	TL h14	TM h14	UW	XG +0.5	XJ +0.5	XV
160	32	48	32	200	200	157.5	182.5	170
200	32	48	32	250	240	169	200.5	185

B1/B2/B3 – Integrated stud bolt



∅ [mm]	BG	BG1 ±0.5	RT	ZL ±0.5	ZL1 [1]
160	Min. 24	25	M16	32	32
200	Min. 24	25	M16	32	32

1) Tolerances depending on variant:
B1: ZL1 = +1/−2; B3: ZL1 = ±0.5

Standard cylinders DSBG, to ISO 15552

Technical data

Ordering data					
Piston ∅ [mm]	Stroke [mm]	With PPV cushioning Part No.	Type	With P cushioning Part No.	Type
160	25	**2029462**	**DSBG-160-25-PPVA-N3**	**2536747**	**DSBG-160-25-P-N3**
	40	**2029463**	**DSBG-160-40-PPVA-N3**	**2536748**	**DSBG-160-40-P-N3**
	50	**2029464**	**DSBG-160-50-PPVA-N3**	**2536749**	**DSBG-160-50-P-N3**
	80	**2029465**	**DSBG-160-80-PPVA-N3**	**2536750**	**DSBG-160-80-P-N3**
	100	**2029466**	**DSBG-160-100-PPVA-N3**	**2536751**	**DSBG-160-100-P-N3**
	125	**2029467**	**DSBG-160-125-PPVA-N3**	**2536752**	**DSBG-160-125-P-N3**
	160	**2029468**	**DSBG-160-160-PPVA-N3**	**2536753**	**DSBG-160-160-P-N3**
	200	**2029469**	**DSBG-160-200-PPVA-N3**	**2536754**	**DSBG-160-200-P-N3**
	250	**2029470**	**DSBG-160-250-PPVA-N3**	**2536755**	**DSBG-160-250-P-N3**
	320	**2029471**	**DSBG-160-320-PPVA-N3**	**2536756**	**DSBG-160-320-P-N3**
	400	**2029472**	**DSBG-160-400-PPVA-N3**	**2536758**	**DSBG-160-400-P-N3**
	500	**2029473**	**DSBG-160-500-PPVA-N3**	**2536759**	**DSBG-160-500-P-N3**
	1 … 2,700	**2035926**	**DSBG-160-…-PPVA-N3**	**2537196**	**DSBG-160-…-P-N3**
200	25	**2390139**	**DSBG-200-25-PPVA-N3**	**2537448**	**DSBG-200-25-P-N3**
	40	**2390140**	**DSBG-200-40-PPVA-N3**	**2537449**	**DSBG-200-40-P-N3**
	50	**2390141**	**DSBG-200-50-PPVA-N3**	**2537450**	**DSBG-200-50-P-N3**
	80	**2390142**	**DSBG-200-80-PPVA-N3**	**2537451**	**DSBG-200-80-P-N3**
	100	**2390143**	**DSBG-200-100-PPVA-N3**	**2537452**	**DSBG-200-100-P-N3**
	125	**2390144**	**DSBG-200-125-PPVA-N3**	**2537454**	**DSBG-200-125-P-N3**
	160	**2390145**	**DSBG-200-160-PPVA-N3**	**2537455**	**DSBG-200-160-P-N3**
	200	**2390146**	**DSBG-200-200-PPVA-N3**	**2537456**	**DSBG-200-200-P-N3**
	250	**2390147**	**DSBG-200-250-PPVA-N3**	**2537457**	**DSBG-200-250-P-N3**
	320	**2390148**	**DSBG-200-320-PPVA-N3**	**2537458**	**DSBG-200-320-P-N3**
	400	**2390149**	**DSBG-200-400-PPVA-N3**	**2537459**	**DSBG-200-400-P-N3**
	500	**2390150**	**DSBG-200-500-PPVA-N3**	**2537460**	**DSBG-200-500-P-N3**
	1 … 2,700	**2389803**	**DSBG-200-…-PPVA-N3**	**2537445**	**DSBG-200-…-P-N3**

Note

Other variants in the modular product system ➔ 12

Standard cylinders DSBG, to ISO 15552

Ordering data – Modular products

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Ordering table

Size			160	200	Condi-tions	Code		Entry code
M	Module no.		**2036032**	**2344936**				
	Function		Standard cylinder, double-acting, based on ISO 15552			**DSBG**		DSBG
O	Central swivel mounting		Without					
			Centrally clamped			**-V**		
M	Piston ∅	[mm]	160	200		**-...**		
	Stroke	[mm]	1 ... 2,700		1	**-...**		
O	Piston rod		At one end					
			Through piston rod			**-T**		
M	Cushioning		Elastic cushioning rings/pads at both ends			**-P**		
			Pneumatic cushioning, adjustable at both ends			**-PPV**		
	Position sensing		Without					
↓			Via proximity sensor			**A**		

1 ... In combination with the position sensing option A, the minimum stroke is 10 mm

Transfer order code

	DSBG	–		–		–		–		–		

Standard cylinders DSBG, to ISO 15552

Ordering data – Modular product

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Ordering table

Size			160	200	Condi-tions	Code		Entry code
↓	Standard		Corresponds to ISO 15552			**-N3**		
0	Corrosion protection		Standard					
			High corrosion protection		2	**R3**		
	Temperature range		Standard					
		[°C]	Heat-resistant seals up to max. 120			**T1**		
		[°C]	0 … +150			**T4**		
	EU certification		None					
			II 2GD		3	**EX4**		
	Piston rod extension	[mm]	Without					
			1 … 500		4	**-...E**		
	Piston rod thread extension	[mm]	Without					
			1 … 70	1 … 100	4	**-...L**		
	Piston rod thread		Standard					
			M36			**-M36**		
	Integrated stud bolts		Without					
			At both ends			**-B1**		
			On bearing cap			**-B2**		
			On end cap			**-B3**		

2 **R3** Not with V

3 **EX4** Not with V, P, T1, T4, B1, B2, B3

4 **...E, ...L** Only up to strokes of 2000 mm

Transfer order code

– | | | | | – | | – | | – | |

Standard cylinders DSBG, to ISO 15552

Accessories

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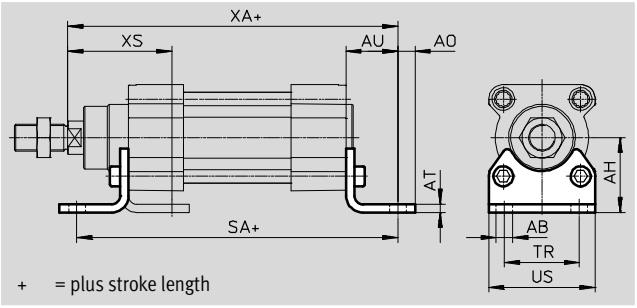
Foot mounting HNG

Materials:
Galvanised steel
Free of copper and PTFE



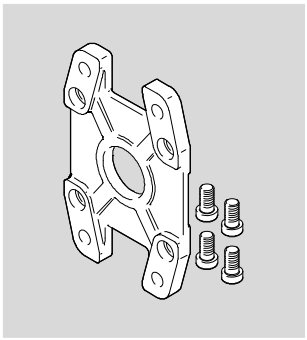
Dimensions and ordering data

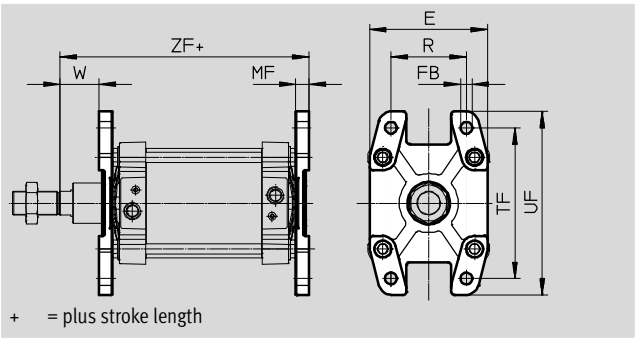
For ∅ [mm]	AB ∅	AH	AO	AT	AU	SA	TR	US	XA	XS	CRC[1]	Weight [g]	Part No.	Type
160	18.5	115	20	10	60	300	115	169	320	130	2	2,200	**34476**	**HNG-160**
200	24	135	30	12	70	320	135	214	345	153	2	3,795	**34477**	**HNG-200**

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 the surrounding industrial environment or media such as coolants or lubricating agents.

Flange mounting FNG

Materials:
Painted spheroidal graphite cast iron
Free of copper and PTFE
RoHS-compliant





Dimensions and ordering data

For ∅ [mm]	E	FB ∅ H13	MF	R	TF	UF	W	ZF	CRC[1]	Weight [g]	Part No.	Type
160	180	18	20	115	60	230	60	280	1	3,550	**34478**	**FNG-160**
200	220	22	25	135	70	270	70	320	1	5,321	**34479**	**FNG-200**

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 primary decorative surface requirements, e.g. in internal areas that are not visible or behind covers.

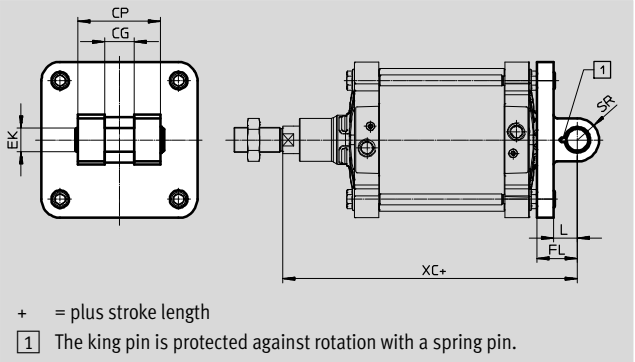
Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

Swivel flange SNG

Materials:
Die-cast aluminium
Free of copper and PTFE
RoHS-compliant



\+ = plus stroke length
1 The king pin is protected against rotation with a spring pin.

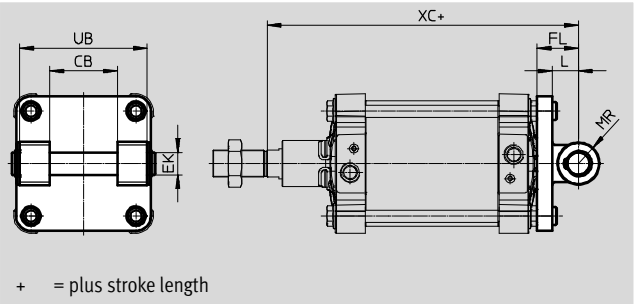
Dimensions and ordering data

For ∅ [mm]	CG H14	CP d12	EK ∅ F7 H9	FL ±0.2	L	SR max.	XC	CRC[1)]	Weight [g]	Part No.	Type
160	43	122	35	55	35	32	315	2	3,285	**152597**	**SNG-160**
200	43	122	35	60	35	32	335	2	4,600	**152598**	**SNG-200**

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 the surrounding industrial environment or media such as coolants or lubricating agents.

Swivel flange SNGB

Materials:
∅160: Die-cast aluminium
∅200: Steel
Free of copper and PTFE
RoHS-compliant



\+ = plus stroke length

Dimensions and ordering data

For ∅ [mm]	CB ∅	CD ∅	FL	L	MR	UB H14	XC	CRC[1)]	Weight [g]	Part No.	Type
160	90	30	55	35	25	170	315	2	3,100	**34547**	**SNGB-160**
200	90	30	60	40	25	170	335	2	11,000	**562455**	**SNGB-200-B**

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 the surrounding industrial environment or media such as coolants or lubricating agents.

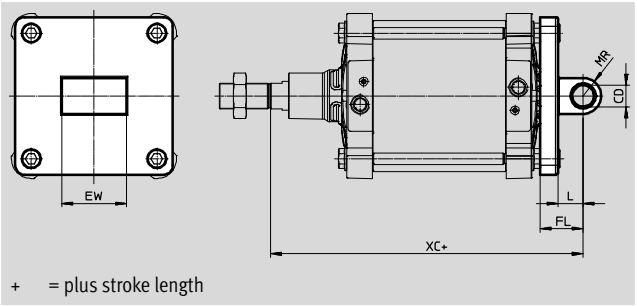
Standard cylinders DSBG, to ISO 15552

Accessories

FESTO

Swivel flange SNGL

Materials:
Die-cast aluminium
Free of copper and PTFE



\+ = plus stroke length

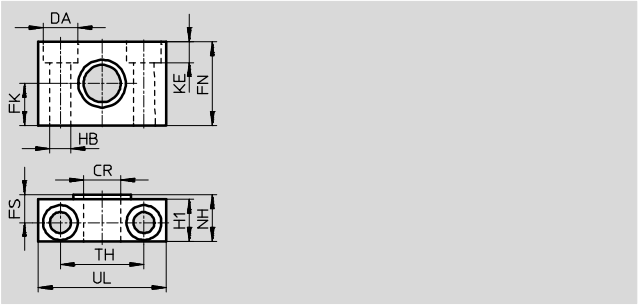
Dimensions and ordering data

For ∅ [mm]	CD ∅ H9	EW −0.5/−1.2	FL ±0.2	L	MR	XC	CRC[1]	Weight [g]	Part No.	Type
160	30	90	55	35	25	315	2	2,252	**151534**	**SNGL-160**
200	30	90	60	35	25	335	2	3,306	**151535**	**SNGL-200**

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 the surrounding industrial environment or media such as coolants or lubricating agents.2

Trunnion support LNZG

Materials:
Trunnion support: Anodised aluminium
Plain bearing: Plastic
Free of copper and PTFE
RoHS-compliant



Dimensions and ordering data

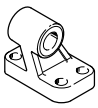
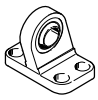
For ∅ [mm]	CR ∅ D11	DA ∅ H13	FK ∅ ±0.2	FN	FS	H1	HB ∅ H13	KE	NH	TH ±0.3	UL	CRC[1]	Weight [g]	Part No.	Type
160, 200	32	26	30	60	22.5	36	18	17	40	60	92	2	659	**35780**	**LNZG-160/200**

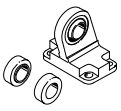
1) Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Standard cylinders DSBG, to ISO 15552

Accessories

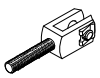
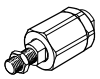
Ordering data – Mounting attachments — Technical data ➔ Internet: clevis foot

Designation	For ∅	Part No.	Type
Clevis foot LN/LNG			
	160	**9037**	**LN-160**
	200	**33898**	**LNG-200**
Clevis foot LSNG			
	160	**152599**	**LSNG-160**
	200	**152600**	**LSNG-200**

Designation	For ∅	Part No.	Type
Clevis foot LSN			
	160	**6988**	**LSN-160**
	200	**6989**	**LSN-200**

Ordering data – Piston rod attachments — Technical data ➔ Internet: piston rod attachment

Designation	For ∅	Part No.	Type
Rod eye SGS			
	160, 200	**10775**	**SGS-M36x2**
Rod clevis SG			
	160, 200	**9581**	**SG-M36X2**

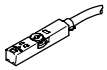
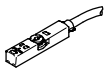
Designation	For ∅	Part No.	Type
Rod clevis SGA			
	160, 200	**10771**	**SGA-M36X2**
Self-aligning rod coupler FK			
	160, 200	**10746**	**FK-M36X2**

Standard cylinders DSBG, to ISO 15552

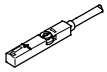
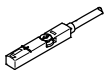
Accessories

FESTO

Ordering data – Proximity sensor 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 – 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 – Sensor bracket for proximity sensor SME/SMT-8

	For ∅	Materials	Part No.	Type
	160 … 200	Rail: Anodised wrought aluminium alloy Screws: High-alloy stainless steel	**1553813**	**DASP-M4-160-A**

Ordering data – Reducing nipple NPFC

	For ∅	Description	Part No.	Type
	160 … 200	For connecting QS fittings with thread G½ to cylinders with thread G¾	**8030313**	**NPFC-R-G34-G12-MF**