



Key features

At a glance

Clamping units are generally used for the friction locking of longitudinally variable rods at any position. The attachment of a clamping unit to a pneumatic cylinder allows the piston rod to be clamped. This clamping unit is designed to lock the piston rod securely so that the application of external force on the piston rod does not produce any relative motion. The locking of the piston rod can take place at any position in the stroke, in the end positions as well as the intermediate positions.

- Clamping force is released when compressed air is fed to the clamping unit
- Static holding force of up to 8,000 N
- The cylinders comply with ISO 15552, (DIN ISO 6431), except where length is concerned.

Selection aid

Clamping-unit cylinder DNCKE



- For use as holding device (static application):
 - Holding and clamping in the event of a power failure
 - Protection against pressure failure and pressure drop
 - Securing of the piston rod during intermediate stops for process operations

Clamping-unit cylinder DNCKE-S, for safety-related applications



- For use as holding device (static application):
 - Holding and clamping in the event of a power failure
 - Protection against pressure failure and pressure drop
 - Securing of the piston rod during intermediate stops for process operations
- For use as a braking device (dynamic application):
 - Braking or stopping of movements
 - Suspension of movement upon entering a danger area
- Holding force of the clamping unit is greater than the max. permissible feed force of the cylinder

 Suitable for use in safety-related parts of control systems belonging to category 1 to EN ISO 13849-1 (reliable component). For use in higher categories, additional control measures are required.

• Wide selection of mounting options

- Certified for use in safety-relevant control systems by the BG-Institute for Occupational Safety and Health (Berufsgenossenschaftlichen Institut für Arbeitsschutz – BIA) in Germany
- When used as a braking device, the overtravel must be checked regularly
- CE marking as per EC machinery directive
- Products intended for use in safetyrelated applications must be selected, sized and arranged in accordance with the risk assessment (EN ISO 14121-1) as well as any other valid standards and regulations

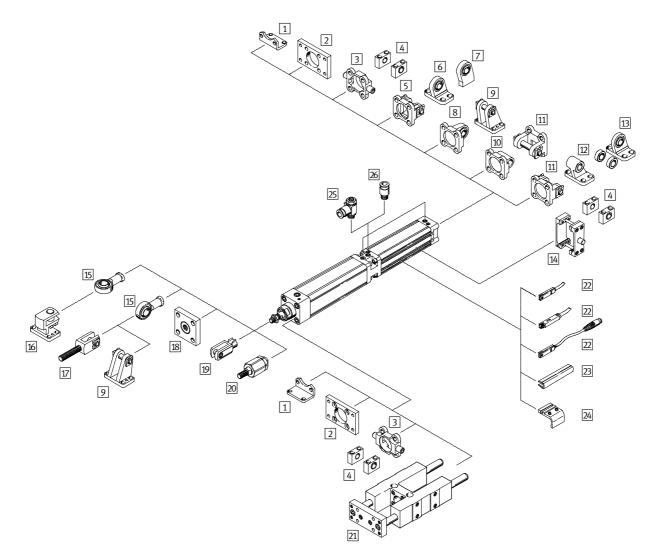
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		DNCKE		63	 100	-	PPV	-	A	-	S
-											
Туре											
Double-actin	Ig		-								
DNCKE	Clamping-unit cylinder										
Piston \varnothing [m	m]										
Stroke [mm]											
						_					
Cushioning											
PPV	Adjustable at both ends							1			
Position sen	sing										
A	For proximity sensing									1	
Certification											
S	Safety component to Machinery Directiv	/e									
	2006/42/EC. Approved for use in safety	y-									
	related parts of control systems. Certifie	ed by									
	the Institute for Occupational Safety an	d									
	Health (Berufsgenossenschaftlichen Ins	stitut									
	für Arbeitsschutz - BIA) in Germany.										

Clamping-unit cylinders, standard port pattern Peripherals overview



Clamping-unit cylinders, standard port pattern Peripherals overview

	inting attachments and accesso	Brief description	DNCKE	DNCKE-S	→ Page/Internet
	Frat way tin a		DNCKE	DNCKE-3	
1	Foot mounting HNC	For bearing or end cap	-	•	13
2	Flange mounting FNC	For bearing or end cap		•	13
3	Trunnion flange ZNCF	For bearing or end cap		_	14
4	Trunnion support LNZG	For trunnion flange ZNCF	•	-	15
5	Swivel flange SNC	For end cap		-	15
6	Clevis foot LSNG	With spherical bearing	•	-	17
7	Clevis foot LSNSG	Weld-on, with spherical bearing		_	17
8	Swivel flange SNCS	With spherical bearing for end cap		_	16
9	Clevis foot LBG	For swivel flange SNCS		-	17
10	Swivel flange SNCL	For end cap		_	17
11	Swivel flange SNCB	For end cap		_	16
12	Clevis foot LNG	For swivel flange SNCB		_	17
13	Clevis foot LSN	With spherical bearing		_	17
14	Trunnion mounting kit ZNCM	For mounting anywhere along the cylinder profile barrel		-	14
15	Rod eye SGS	With spherical bearing	•	-	18
16	Right-angle clevis foot	For rod eye SGS		-	17
17	Rod clevis SGA	With male thread		-	18
18	Coupling piece KSG	For compensating radial deviations		-	18
19	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane		_	18
20	Self-aligning rod coupler FK	For compensating radial and angular deviations		•	18
21	Guide unit FENG	For protecting standard cylinders from torsion at high torque loads	•		18
22	Proximity sensor SME/SMT	Can be integrated in the cylinder profile barrel			19
23	Slot cover ABP-5-S	To protect the sensor cable and keep dirt out of the sensor slots	•		20
24	Sensor mounting kit SMB-8-FENG	For proximity sensor SMT-8 when attaching to cylinders in combination with guide unit FENG		•	19
25	One-way flow control valve GRLA	For speed regulation		•	20
26	Push-in fitting QS	For connecting compressed air tubing with standard external diameters		•	quick star

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Technical data

Function



- ♥ - Diameter 40, 63, 100 mm - ■ - Stroke length 10 ... 2,000 mm



- 🖡 - Note

Additional measures are required for use in safety-related control systems; in Europe, for example, the standards listed under the EC Machinery Directive must be observed. Without additional measures in accordance with statutory minimum requirements, the product is not suitable for use in safety-related sections of control systems.

General technical data						
Piston \varnothing		40	63	100		
Pneumatic connection	Cylinder	G1⁄4	G3⁄8	G1⁄2		
	Clamping unit	G1⁄8	G1⁄4	G3⁄8		
Piston rod thread		M12x1.25	M16x1.5	M20x1.5		
Design		Piston	·			
		Piston rod				
		Cylinder barrel				
Cushioning		Adjustable at both ends				
Cushioning length	[mm]	20	22	32		
Position sensing		For proximity sensing				
Type of mounting		Via female thread				
		With accessories				
Clamping type with effective direction		At both ends				
		Clamping via spring force	e, air to release			
Assembly position		Any				

Note: This product conforms to ISO 1179-1 and to ISO 228-1

Operating and environmental conditions

operating and entities interactione				
Piston \varnothing		40	63	100
Operating medium		Compressed air in accordance with	ISO 8573-1:20	10 [7:4:4]
Note on operating/pilot medium		Operation with lubricated medium	possible (in whi	ch case lubricated operation will always be required)
Operating pressure	[bar]	0.6 10		
Min. release pressure	[bar]	3.8		
Ambient temperature ¹⁾	[°C]	-20 +80		
ATEX		Specified types → www.festo.com		

1) Note operating range of proximity sensors

Weights [g]

40	63	100
2,340	5,485	18,160
45	73	110
500	935	2,150
16	25	40
	2,340 45 500	2,340 5,485 45 73

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Technical data

Forces [N]			
Piston Ø	40	63	100
Theoretical force at 6 bar, advancing	754	1,870	4,712
Theoretical force at 6 bar, retracting	633	1,682	4,418
Static holding force	1,300	3,200	8,000

- 📲 - Note

The specified holding force refers to a static load. If this value is exceeded, slippage may occur. Dynamic forces occurring during operation must not exceed the static holding force if

slippage is to be avoided. The clamping unit is backlash-free in the clamped condition if varying loads are applied to the piston rod.

Activation:

The clamping unit may only be released when equilibrium of forces is present on the piston rod. Otherwise there is a risk of accidents due to the

Moving work load

sudden movement of the piston rod. Blocking off the air supply at both ends (e.g. with a 5/3-way valve) does not provide any safety.

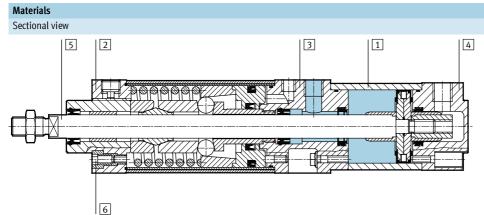
Impact energy [J]					
Piston Ø		40		63	100
Max. impact energy at end positions		0.7		1.3	3
Permissible impact velocity:	$v_{perm.} = $	$\frac{2 \text{ x E}_{\text{perm.}}}{m_{\text{dead}} + m_{\text{load}}}$	v _{perm.} E _{perm.} m _{dead}	Permissible impact velocity Max. impact energy Moving load (drive)	- Note These specifications represent the

m_{load}

These specifications represent the maximum values which can be reached. Note the maximum permitted impact energy.

Maximum permissible load:

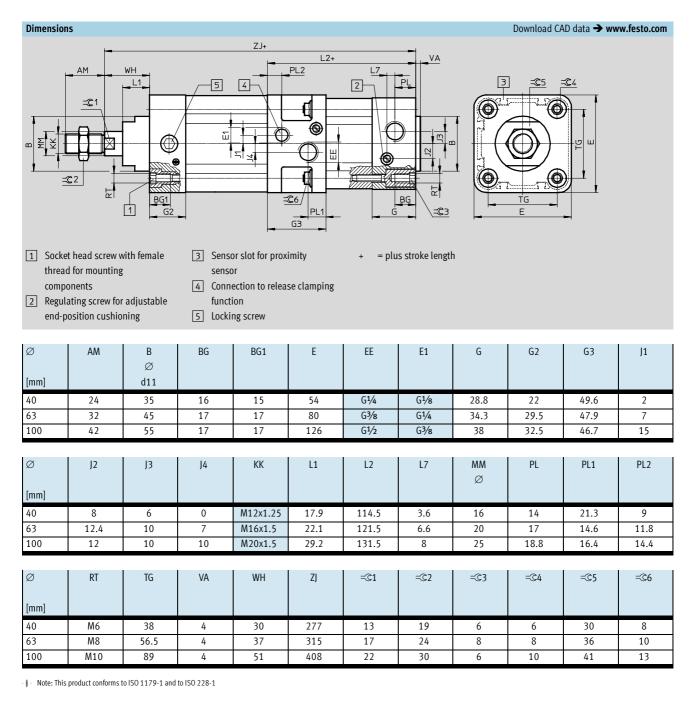
 $m_{load} = \frac{2 \text{ x } \text{E}_{perm.}}{v^2} - m_{dead}$



Cylin	nder	
1	Housing	Wrought aluminium alloy
2	Bearing cap	Wrought aluminium alloy
3	Connector cap	Wrought aluminium alloy
4	End cap	Die-cast aluminium
5	Piston rod	Tempered steel
6	Flange screws	Tempered steel
-	Seals	Polyurethane, nitrile rubber

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Technical data



Ordering data			
Piston \varnothing	Stroke	Part No.	Туре
[mm]	[mm]		
40	10 2,000	526 482	DNCKE-40PPV-A
63	10 2,000	526 483	DNCKE-63PPV-A
100	10 2,000	526 484	DNCKE-100PPV-A

Clamping unit cylinders DNCKE-S, standard port pattern Technical data

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General technical data						
Piston \varnothing		40	63	100		
Pneumatic connection	Cylinder	G1⁄4	G¾	G1⁄2		
	Clamping unit	G1⁄8	G1⁄4	G3⁄8		
Piston rod thread		M12x1.25	M16x1.5	M20x1.5		
Design		Piston				
		Piston rod				
		Cylinder barrel				
Cushioning		Adjustable at both ends				
Cushioning length	[mm]	20	22	32		
Position sensing		For proximity sensing				
Type of mounting		Via female thread				
		With accessories				
Clamping type with effective	direction	At both ends				
		Clamping via spring force, air to release				
Assembly position		Any				
Function		Single-channel to EN ISO 13849-1, category 1				
Certification		BIA (Berufsgenossenschaftliches Institut für Arbeitsschutz – BG-Institute for Occupational Safety and				
		Health)				
CE marking (see declaration	of conformity)	To Machinery Directive (2006/42/EC) 98/37/EC				

Note: This product conforms to ISO 1179-1 and to ISO 228-1

Operating and environmental conditions					
Piston \varnothing		40	63	100	
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Operating pressure	[bar]	0.6 8			
Min. release pressure	[bar]	3.8			
Max. permissible test pressure	[bar]	10			
Ambient temperature ¹⁾	[°C]	-10 +60			

1) Note operating range of proximity sensors

Weights [g]			
Piston Ø	40	63	100
Basic weight with 0 mm stroke	2,340	5,485	18,160
Additional weight per 10 mm stroke	45	73	110
Moving load with 0 mm stroke	500	935	2,150
Additional load per 10 mm stroke	16	25	40

Clamping unit cylinders DNCKE-S, standard port pattern

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Technical data

Forces [N]			
Piston \varnothing	40	63	100
Theoretical force at 6 bar, advancing	754	1,870	4,712
Theoretical force at 6 bar, retracting	633	1,682	4,418
Static holding force	1,300	3,200	8,000

- 🚪 - Note

The specified holding force refers to a static load. If this value is exceeded, slippage may occur. Dynamic forces occurring during operation must not exceed the static holding force if

slippage is to be avoided. The clamping unit is backlash-free in the clamped condition if varying loads are applied to the piston rod.

Activation:

The clamping unit may only be released when equilibrium of forces is present on the piston rod. Otherwise there is a risk of accidents due to the sudden movement of the piston rod. Blocking off the air supply at both ends (e.g. with a 5/3-way valve) does not provide any safety.

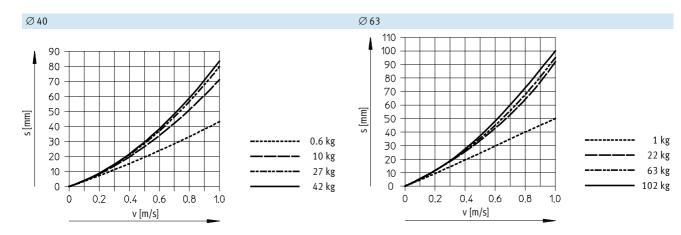
Theoretical overtravel s as a function of the piston speed v in a vertical assembly position

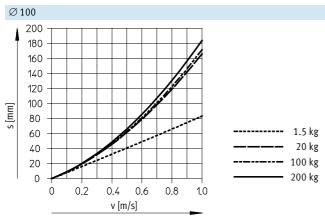
The overtravel is the distance that the piston rod covers between exhausting of the clamping unit and coming to a standstill. It must be determined by the customer when setting up the machine and be compared with the calculated overtravel → DIN EN 999/EN ISO 13849-2. The clamping unit DNCKE-S can be

used in safety-related parts of control systems belonging to category 1 (reliable component) as defined by EN ISO 13849-1. For use in higher categories than category 1 to EN ISO 13849-1, the overtravel must be achieved even in the event of faults.

- It is dependent on the environmental conditions and stress, e.g.:
- Operating pressure
- Nominal size of switching valveLine length
- Diameter of connecting cable to clamping unit
- Load and speed

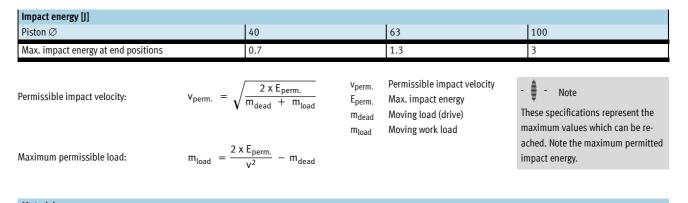
The overtravel can be reduced by attaching a quick exhaust valve to the supply port of the clamping unit.

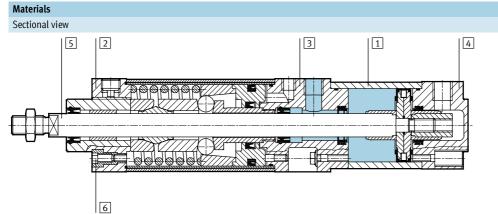




Clamping unit cylinders DNCKE-S, standard port pattern

Technical data

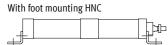




Cylin	der	
1	Body	Wrought aluminium alloy
2	Bearing cap	Wrought aluminium alloy
3	Connector cap	Wrought aluminium alloy
4	End cap	Die-cast aluminium
5	Piston rod	Tempered steel
6	Flange screws	Tempered steel
-	Seals	Polyurethane, nitrile rubber

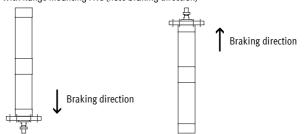
Recommendation for mounting

As holding device, horizontal installation



As braking device, vertical installation

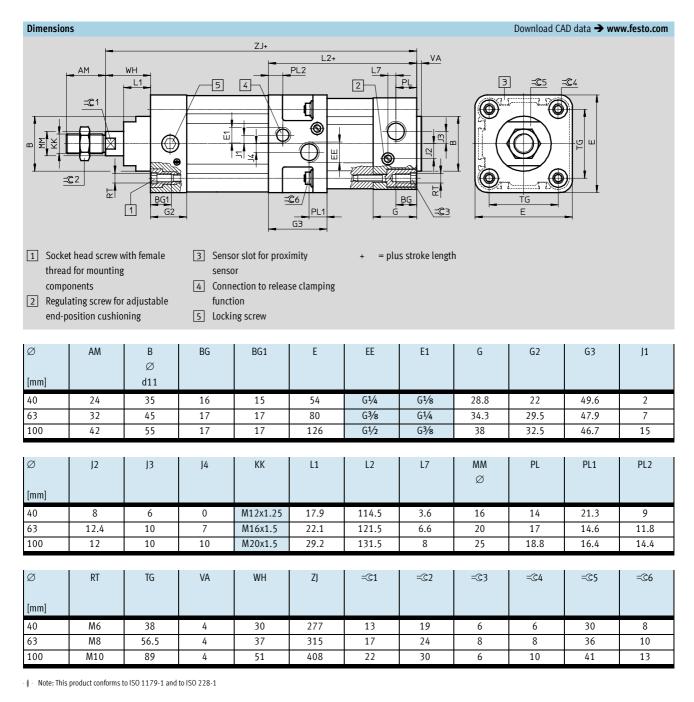
With flange mounting FNC (note braking direction)



Clamping unit cylinders DNCKE-S, standard port pattern

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Technical data



Ordering data			
Piston \varnothing	Stroke	Part No.	Туре
[mm]	[mm]		
40	10 2,000	538 239	DNCKE-40PPV-A-S
63	10 2,000	538 240	DNCKE-63PPV-A-S
100	10 2,000	538 241	DNCKE-100PPV-A-S

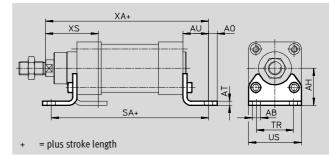
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Accessories

Foot mounting HNC

Material: Galvanised steel Free of copper and PTFE





Dimensions and ordering data

Dimension														
For \varnothing	AB	AH	AO	AT	AU	SA	TR	US	XA	XS	CRC ¹⁾	Weight	Part No.	Туре
	Ø													
[mm]												[g]		
40	10	36	9	4	28	303	36	54	305	53	2	193	174 370	HNC-40
63	10	50	12.5	5	32	342	50	75	347	63	2	436	174 372	HNC-63
100	14.5	71	17.5	6	41	439	75	110	449	86	2	1,009	174 374	HNC-100

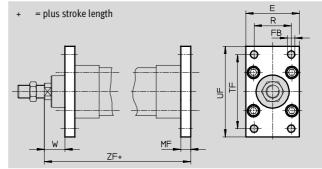
1) Corrosion resistance class 2 according to Festo standard 940 070

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

Flange mounting FNC

Material: Galvanised steel Free of copper and PTFE RoHS-compliant





Dimension	Dimensions and ordering data													
For \varnothing	E	FB	MF	R	TF	UF	W	ZF	CRC ¹⁾	Weight	Part No. Type			
		Ø												
[mm]		H13								[g]				
40	54	9	10	36	72	90	20	287	1	291	174 377 FNC-40			
63	75	9	12	50	100	120	25	327	1	679	174 379 FNC-63			
100	110	14	16	75	150	175	35	424	1	2,041	174 381 FNC-100			

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

Components with light corrosion exposure. Protection for transport and storage. Components without significant decorative function or surface, e.g. installed out of sight internally or behind covers.

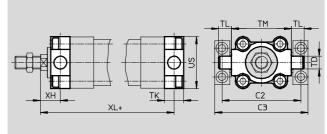
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Accessories

Trunnion flange ZNCF

Material: Special steel casting Free of copper and PTFE RoHS-compliant





+	= p	us	stro	ke	length
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Dimension	Dimensions and ordering data													
For \varnothing	C2	C3	TD	TK	TL	TM	US	XH	XL	CRC ¹⁾	Weight	Part No.	Туре	
			Ø											
[mm]			e9								[g]			
40	87	105	16	20	16	63	54	20	287	2	285	174 412	ZNCF-40	
63	116	136	20	24	20	90	75	25	327	2	687	174 414	ZNCF-63	
100	164	189	25	38	25	132	110	32	427	2	2,254	174 416	ZNCF-100	

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

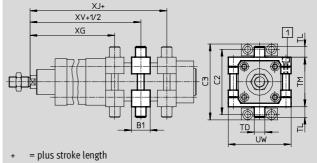
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Trunnion mounting kit ZNCM

The mounting kit can be attached at any position along the profile barrel of a cylinder.

Material: Tempered steel Free of copper and PTFE





+1/2 = plus half stroke length

1 Max. tightening torque

Dimension	is and ordering data						
For Ø	B1	C2	C3	TD	TL	TM	UW
				Ø			
[mm]				e9			
40	32	87	105	16	16	63	75
63	41	116	136	20	20	90	105
100	48	164	189	25	25	132	145

For Ø [mm]	XG	XJ	XV	Max. tightening torque [Nm]	CRC ¹⁾	Weight [g]	Part No.	Туре
40	228.1	232.2	230.2	8+1	2	396	163 526	ZNCM-40
63	261.9	260.2	261	18+2	2	931	163 528	ZNCM-63
100	347.2	346	346.6	28+2	2	2,095	163 530	ZNCM-100

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

Components requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

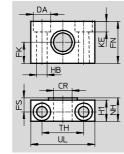
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Accessories

Trunnion support LNZG

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





Dimension	Dimensions and ordering data														
For \varnothing	CR	DA	FK	FN	FS	H1	HB	KE	NH	TH	UL	CRC ¹⁾	Weight	Part No.	Туре
	Ø	Ø	Ø				Ø								
[mm]	D11	H13	±0.1				H13			±0.2			[g]		
40	16	15	18	36	12	18	9	9	21	36	55	2	129	32 960	LNZG-40/50
63	20	18	20	40	13	20	11	11	23	42	65	2	178	32 961	LNZG-63/80
100	25	20	25	50	16	24.5	14	13	28.5	50	75	2	306	32 962	LNZG-100/125

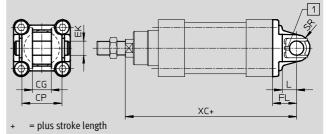
1) Corrosion resistance class 2 according to Festo standard 940 070

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

Swivel flange SNC

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





1 The pivot pin is secured against rotation with a dowel pin.

Dimension	Dimensions and ordering data													
For \varnothing	CG	СР	EK Ø	FL	L	SR	XC	CRC ¹⁾	Weight	Part No. Type				
[mm]	H14	d12	Q	±0.2					[g]					
40	16	40	12	25	16	12	302	2	120	174 384 SNC-40				
63	21	51	16	32	21	16	347	2	320	174 386 SNC-63				
100	25	75	20	41	27	20	449	2	830	174 388 SNC-100				

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

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

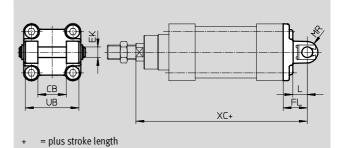
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Accessories

Swivel flange SNCB

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





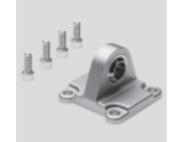
Dimension	Dimensions and ordering data													
For Ø	CB	EK	FL	L	ML	MR	UB	XC	CRC ¹⁾	Weight	Part No. Type			
		Ø												
[mm]	H14	e8	±0.2				h14			[g]				
40	28	12	25	16	63	12	52	302	2	155	174 391 SNCB-40			
63	40	16	32	21	83	16	70	347	2	375	174 393 SNCB-63			
100	60	20	41	27	127	20	110	449	2	1,035	174 395 SNCB-100			

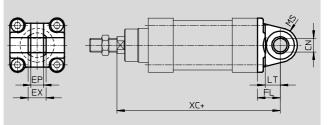
1) Corrosion resistance class 2 according to Festo standard 940 070

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

Swivel flange SNCS

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





+ = plus stroke length

Dimension	limensions and ordering data										
For \varnothing	CN	EP	EX	FL	LT	MS	XC	CRC ¹⁾	Weight	Part No. Type	
	Ø										
[mm]	H7	±0.2		±0.2					[g]		
40	12	12	16	25	16	17	302	2	125	174 398 SNCS-40	
63	16	15	21	32	21	22	347	2	280	174 400 SNCS-63	
100	20	18	25	41	27	29	449	2	700	174 402 SNCS-100	

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

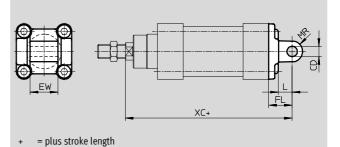
Components requiring moderate corrosion resistance. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

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Swivel flange SNCL

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





Dimensions and	Dimensions and ordering data										
For \varnothing	CD	EW	FL	L	MR	XC	CRC ¹⁾	Weight	Part No.	Туре	
	Ø										
[mm]	H9	-0.2/-0.6	±0.2					[g]			
40	12	28	25	16	12	302	2	100	174 405	SNCL-40	
63	16	40	32	21	16	347	2	250	174 407	SNCL-63	
100	20	60	41	27	20	449	2	655	174 409	SNCL-100	

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

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

Ordering data	– Mounting at	ttachments				Technical data	➔ Internet: mounting attachment
Designation	For Ø	Part No.	Туре	Designation	For \varnothing	Part No.	Туре
Clevis foot LNC	ì			Clevis foot LSN			
\frown	40	33 891	LNG-40		40	5 562	LSN-40
SQ	63	33 893	LNG-63		63	5 564	LSN-63
	100	33 895	LNG-100	(O jor	100	5 566	LSN-100
Clevis foot LSN	IG			 Clevis foot LSN	SG		
	40	31 741	LSNG-40		40	31 748	LSNSG-40
	63	31 743	LSNG-63		63	31 750	LSNSG-63
	100	31 745	LSNG-100	R S	100	31 752	LSNSG-100
Clauis fact LDC				 Clavic feet rich	t angled LOC		
Clevis foot LBG	40	31 762	LBG-40	Clevis foot, righ	40	31 769	LQG-40
1 da	40 63	31 762	LBG-63		40 63	31 769	LQG-63
	100	31 764	LBG-05		100	31 773	LQG-100
Ceo							

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Ordering data	– Piston rod a	ittachments				Technical data 🕇	Internet: piston rod attachmen
Designation	For Ø	Part No.	Туре	Designation	For Ø	Part No.	Туре
Rod eye SGS				Rod clevis SGA	ł		
Â	40	9 262	SGS-M12x1,25		40	10 767	SGA-M12x1,25
	63	9 263	SGS-M16x1,5		63	10 768	SGA-M16x1,5
Ø	100	9 264	SGS-M20x1,5	Ç, Ç	100	10 769	SGA-M20x1,5
Rod clevis SG				Self-aligning r	od coupler FK		
	40	6 145	SG-M12x1,25		40	6 1 4 1	FK-M12x1,25
	63	6 146	SG-M16x1,5		63	6 1 4 2	FK-M16x1,5
40	100	6 147	SG-M20x1,5	CORE -	100	6 1 4 3	FK-M20x1,5
		•					
Coupling piece	e KSG						
\sim	40	32 964	KSG-M12x1,25				
0	63	32 965	KSG-M16x1,5				
	100	32 966	KSG-M20x1,5				
2		•					

Ordering data – Guide units for fixed strokes (recirculating ball bearing guide only)

, i i i i i i i i i i i i i i i i i i i	Stroke [mm]	Part No.	Туре
	For \varnothing 40 mm		
	10 50	34 499	FENG-40-50-KF
	10 100	34 500	FENG-40-100-KF
	10 160	34 501	FENG-40-160-KF
	10 200	34 502	FENG-40-200-KF
	10 250	34 503	FENG-40-250-KF
	10 320	34 504	FENG-40-320-KF
	10 400	150 291	FENG-40-400-KF
	10 500	34 505	FENG-40-500-KF
	For \varnothing 100 mm		
	10 50	34 529	FENG-100-50-KF
	10 100	34 530	FENG-100-100-KF
	10 160	34 531	FENG-100-160-KF
	10 200	34 532	FENG-100-200-KF
	10 250	34 533	FENG-100-250-KF
	10 320	34 534	FENG-100-320-KF
	10 400	34 535	FENG-100-400-KF
	10 500	34 536	FENG-100-500-KF

Stroke	Part No.	Туре
[mm]		
For \varnothing 63 mm		
10 50	34 513	FENG-63-50-KF
10 100	34 514	FENG-63-100-KF
10 160	34 515	FENG-63-160-KF
10 200	34 516	FENG-63-200-KF
10 250	34 517	FENG-63-250-KF
10 320	34 518	FENG-63-320-KF
10 400	34 519	FENG-63-400-KF
10 500	34 520	FENG-63-500-KF

Ordering data – Guide	e units for variable	strokes		Technical data 🗲 Internet: feng
	For Ø	Stroke	with recirculating ball bearing guide	with plain bearing guide
	[mm]	[mm]	Part No. Type	Part No. Type
	40	10 500	34 488 FENG-40KF	34 482 FENG-40
	63	10 500	34 490 FENG-63KF	34 484 FENG-63
	100	10 500	34 492 FENG-100KF	34 486 FENG-100
		·		

Technical data → Internet: smb Ordering data – Mounting kits for proximity sensors SMT-8 For \varnothing [mm] Part No. Туре SMB-8-FENG-32/40 40 175 705 63 175 706 SMB-8-FENG-50/63 100 175 707 SMB-8-FENG-80/100

Ordering data	- Proximity sensors for T-slot, magneto-	resistive				Technical data 🗲 Internet: smt
	Type of mounting	Switch	Electrical connection	Cable length	Part No.	Туре
		output		[m]		
N/O contact						
	Insertable in the slot from above, flush	PNP	Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2,5-0E
C B J	with cylinder profile, short design		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 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	Switch Electrical connection		Cable length	Part No.	Туре
		output		[m]		
N/O contact						
CT BOAT	Insertable in the slot from above, flush	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE
	with cylinder profile			5.0	543 863	SME-8M-DS-24V-K-5,0-OE
¢/			Cable, 2-wire	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE
			Plug M8x1, 3-pin	0.3	543 861	SME-8M-DS-24V-K-0,3-M8D
Ŕ	Insertable in the slot lengthwise, flush	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24
	with the cylinder profile		Plug M8x1, 3-pin	0.3	150 857	SME-8-S-LED-24
N/C contact						
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	7.5	160 251	SME-8-O-K-LED-24

Ordering da	ata – Connecting cables				Technical data 🗲 Internet: nebu
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Туре
	Straight socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 333	NEBU-M8G3-K-2.5-LE3
CE IN			5	541 334	NEBU-M8G3-K-5-LE3
	Straight socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 363	NEBU-M12G5-K-2.5-LE3
			5	541 364	NEBU-M12G5-K-5-LE3
	Angled socket, M8x1, 3-pin	Cable, open end, 3-wire	2.5	541 338	NEBU-M8W3-K-2.5-LE3
			5	541 341	NEBU-M8W3-K-5-LE3
	Angled socket, M12x1, 5-pin	Cable, open end, 3-wire	2.5	541 367	NEBU-M12W5-K-2.5-LE3
			5	541 370	NEBU-M12W5-K-5-LE3

0	Ordering data – Slot cover for T-slot								
		Assembly	Length	Part No.	Туре				
			[m]						
		Insertable from	2x 0.5	151 680	ABP-5-S				
Ē		above							

Ordering data	a – One-way flow con	trol valves			Technical data 🗲 Internet: grla
	Connection		Material	Part No.	Туре
	Thread	For tubing OD			
O	G1⁄8	3	Metal design	193 142	GRLA-1⁄8-QS-3-D
S C C C C C C C C C C C C C C C C C C C		4		193 143	GRLA-1/8-QS-4-D
		6		193 144	GRLA-1/8-QS-6-D
9		8		193 145	GRLA-1/8-QS-8-D
	G1⁄4	6		193 146	GRLA-1/4-QS-6-D
		8		193 147	GRLA-1/4-QS-8-D
		10		193 148	GRLA-1/4-QS-10-D
	G3⁄8	6		193 149	GRLA-¾-QS-6-D
		8		193 150	GRLA-¾-QS-8-D
		10		193 151	GRLA-3/8-QS-10-D
	G1/2	12		193 152	GRLA-1/2-QS-12-D