



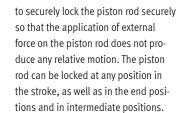
## Characteristics

#### At a glance

Clamping units are generally used for the frictional locking of longitudinally adjustable rods at any position. The piston rod can be clamped by attaching a clamping unit to a pneumatic cylinder. The clamping unit is designed

#### Selection aid

#### Cylinder with clamping unit DNCKE



- The clamping force is released when compressed air is supplied to the clamping unit
- Static holding force to 8000 N
- The cylinders comply with ISO 15552 (DIN ISO 6431), except in terms of installation length

Page 6

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- For use as a holding device (static application):
  - Holding and clamping in the event of power failure
  - Protection against pressure failure and pressure drop
  - Secures the piston rod at intermediate stops so that process tasks can be carried out

#### Cylinder with clamping unit DNCKE-S, for safety-related applications



 Pneumatic braking/holding device for use in safety-related parts of control systems.
 The clamping unit is not a complete safety solution. It can be used as

part of a solution.

- Certified by the Institute for Occupational Safety and Health of the German Social Accident Insurance (DGUV). Testing and certification body in DGUV Test (IFA). Pneumatic braking/holding device with safety function.
- For use as a holding device (static application):
  - Holding and clamping in the event of power failure
  - Protection against pressure failure and pressure drop
  - Holding the piston rod at intermediate stops so that process tasks can be carried out
- For use as a braking device (dynamic application):
  - Braking or stopping a movementInterrupting a movement if a
- danger area is entered • Holding force of the clamp is greater
- than the cylinder's max. permissible feed force

 Suitable for use in safety-oriented parts of control systems belonging to category 1 to EN ISO 13849-1 (well-tried component). Additional control measures are required for use in higher categories.

· Wide selection of mounting options

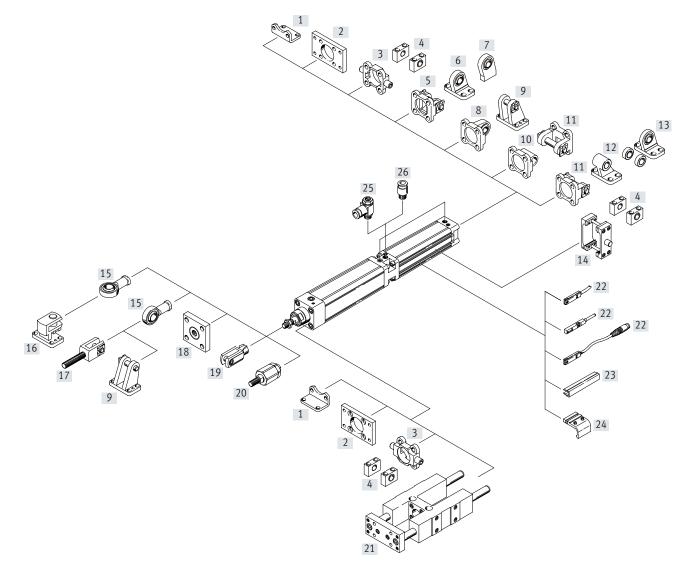
- When used as a braking device, the overtravel must be checked regularly
- Products intended for use in safety-related applications must be selected, sized and arranged in accordance with valid standards and regulations.

# Type codes

001	Series	
DNCKE	Cylinder with clamping unit, double-acting, standard hole pattern	
002	Piston diameter	
40	40	
63	63	
100	100	
003	Stroke	
	10 2000	

004	Cushioning	
PPV	Pneumatic cushioning, adjustable at both ends	
005	Position sensing	
А	For proximity sensor	
006	Certification	
	None	
S	Safety device to Machinery Directive 2006/42/EC	

## Peripherals overview



# Peripherals overview

Moun	ting components and accessorie	s			
		Description	DNCKE	DNCKE-S	→ Page/Internet
[1]	Foot mounting HNC	For bearing or end caps	•		14
[2]	Flange mounting FNC	For bearing or end caps	•		14
[3]	Trunnion flange ZNCF	For bearing or end caps	•	-	15
[4]	Trunnion support LNZG	For trunnion flange ZNCF	•	-	16
[5]	Swivel flange SNC	For end caps	•	-	16
[6]	Clevis foot LSNG	With spherical bearing	•	-	18
[7]	Clevis foot LSNSG	Weld-on, with spherical bearing	•	-	18
[8]	Swivel flange SNCS	With spherical bearing for end caps	•	-	17
[9]	Clevis foot LBG	For swivel flange SNCS	•	-	18
[10]	Swivel flange SNCL	For end caps	•	_	18
[11]	Swivel flange SNCB	For end caps	•	_	17
[12]	Clevis foot LNG	For swivel flange SNCB	•	_	18
[13]	Clevis foot LSN	With spherical bearing	•	-	18
[14]	Trunnion flange kit DAMT	For mounting anywhere along the cylinder profile barrel	•	-	15
[15]	Rod eye SGS	With spherical bearing	•	-	19
[16]	Right-angle clevis foot LQG	For rod eye SGS	•	-	18
[17]	Rod clevis SGA	With male thread	•	-	19
[18]	Coupling piece KSG	For compensating radial deviations	•	-	19
[19]	Rod clevis SG	Permits a swivelling movement of the cylinder in one plane	•	-	19
[20]	Self-aligning rod coupler FK	For compensating radial and angular deviations	•	•	19
[21]	Guide unit FENG	For protecting standards-based cylinders against rotation at high torque loads	•		19
[22]	Proximity switch SME/SMT	Can be integrated in the cylinder profile barrel	•	•	20
[23]	Slot cover ABP-5-S	For protecting the sensor cable and the sensor slots from contamination	•		21
[24]	Mounting kit SMB-8-FENG	For attaching proximity switch SMT-8 to cylinders in combination with guide unit FENG	•	•	20
[25]	One-way flow control valve GRLA	To control the speed	•		21
[26]	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	•	•	qs

## Data sheet





# Stroke length 10 ... 2000 mm



## - 🗍 - Note

Additional measures are required for use in safety-related applications; in Europe, for example, the standards listed under the EC Machinery Directive must be observed. Without additional measures in accordance with legally specified minimum requirements, the product is not suitable as a safety relevant component in control systems.

#### General technical data

Piston diameter		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		Via proximity switch			
Type of mounting		With female thread			
		With accessories			
Type of clamping with active dire	ection	At both ends			
		Clamping via spring force, released via compressed air			
Mounting position		Any			

## - 🖡 - Note

This product conforms to ISO 1179-1 and ISO 228-1.

#### Operating and environmental conditions

operating and environmental conditions					
Piston diameter		40 63 100			
Operating medium		Compressed air to ISO 8573-1:2010 [7:	4:4]		
Note on the operating/pilot medium		Lubricated operation possible (in which case lubricated operation will always be required)			
Operating pressure	[bar]	0.6 10		·	
Min. release pressure	[bar]	3.8			
Ambient temperature <sup>1)</sup>	[°C]	-20 +80			
ATEX		Selected types → www.festo.com			

1) Note operating range of proximity switches.

#### Weight [g]

Piston diameter	40	63	100
Basic weight with 0 mm stroke	2340	5485	18160
Additional weight per 10 mm stroke	45	73	110
Moving mass with 0 mm stroke	500	935	2150
Additional mass per 10 mm stroke	16	25	40

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## Data sheet

Forces [N]			
Piston diameter	40	63	100
Theoretical force at 6 bar, advancing	754	1870	4712
Theoretical force at 6 bar, retracting	633	1682	4418
Static holding force	1300	3200	8000

#### - 📲 - 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 state when varying loads are applied to the piston rod. Lateral loads and bending moments on the round material can impair the function. (Make sure that the load on the round material is only in the direction of movement.)

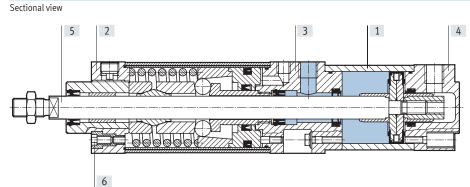
#### Control:

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

## Impact energy [J]

Piston diameter		40		63		100
Max. impact energy at end positions		0.7		1.3		3
Permissible impact velocity: Maximum permissible mass:	$v = \sqrt{\frac{2 \cdot E}{m_1 + m_2}}$ $m_2 = \frac{2 \cdot E}{v^2} - m_2$	v E m <sub>1</sub> m <sub>2</sub>	Permissible im Max. impact er Moving mass ( Moving payload	hergy drive)	max Obs	<ul> <li>Note</li> <li>se specifications represent the imum values that can be achieved.</li> <li>erve the maximum permissible act energy.</li> </ul>

Materials



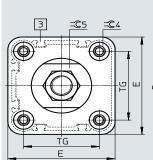
#### Cylinder

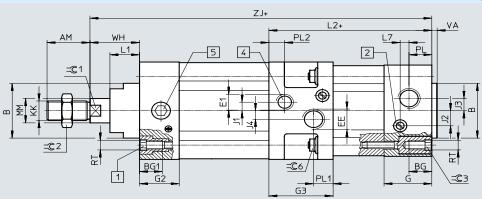
Cylin	der	
[1]	Housing	Wrought aluminium alloy
[2]	Bearing cap	Wrought aluminium alloy
[3]	Connection cap	Wrought aluminium alloy
[4]	End cap	Die-cast aluminium
[5]	Piston rod	Tempered steel
[6]	Flange screws	Tempered steel
-	Seals	TPE-U(PU), NBR

## Data sheet

## Dimensions

Download CAD data → <u>www.festo.com</u>





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= plus stroke length

- [1] Socket head screw with female thread for mounting components
- [2] Adjusting screw for adjustable end-position cushioning
- [3] Sensor slot for proximity switch
- [4] Connection to release clamping function
- [5] Locking screw

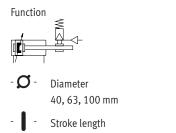
ø	AM	В	BG	BG1	E	EE	E1	G	G2	G3	J1
[mm]		ø d11									
40	24	35	16	15	54	G1/4	G1/8	28.8	22	49.6	2
63	32	45	17	17	80	G3/8	G1/4	34.3	29.5	47.9	7
100	42	55	17	17	126	G1/2	G3/8	38	32.5	46.7	15
Ø	J2	J3	J4	КК	L1	L2	L7	MM Ø	PL	PL1	PL2
[mm]											
40	8	6	0	M12x1.25	17.9	114.5	3.6	16	14	21.3	9
63	12.4	10	7	M16x1.5	22.1	121.5	6.6	20	17	14.6	11.8
100	12	10	10	M20x1.5	29.2	131.5	8	25	18.8	16.4	14.4
ø	RT	TG	VA	WH	ZJ	=©1	<b>=</b> ©2	=©3	<b>=</b> ©4	=©5	=©6
[mm]											
[mm] 40	M6	38	4	30	277	13	19	6	6	30	8
	M6 M8	38 56.5	4	30 37	277 315	13 17	19 24	6	6 8	30 36	8 10

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

Ordering data			
Piston diameter	Stroke	Part no.	Туре
[mm]	[mm]		
40	10 2000	526482	DNCKE-40PPV-A
63	10 2000	526483	DNCKE-63PPV-A
100	10 2000	526484	DNCKE-100PPV-A

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## Data sheet



10 ... 2000 mm

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#### General technical data

Piston diameter		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	Cylinder barrel				
Cushioning		Adjustable at both ends	Adjustable at both ends				
Cushioning length	[mm]	20	22	32			
Position sensing		Via proximity switch					
Type of mounting		With female thread					
		With accessories					
Type of clamping with active of	lirection	At both ends					
		Clamping via spring force, released via compressed air					
Mounting position		Any					
Function		Single-channel to EN ISO 13849-1, category 1					
Safety function		Holding and stopping a movement					
Certification		Certified by the Institute for (	Certified by the Institute for Occupational Safety and Health of the German Social Accident Insurance (DGUV).				
		Testing and certification bod	Testing and certification body in DGUV Test (IFA)				

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

Operating and environmental conditions				
Piston diameter		40	63	100
Operating medium		Compressed air to ISO 8573-1:2010 [7:	4:4]	
Note on the operating/pilot medium		Lubricated operation 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 <sup>1)</sup>	[°C]	-10 +60		

1) Note operating range of proximity switches

Weight [g]			
Piston diameter	40	63	100
Basic weight with 0 mm stroke	2340	5485	18160
Additional weight per 10 mm stroke	45	73	110
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## Data sheet

#### Forces [N]

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#### Control:

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

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## Data sheet

#### Theoretical overtravel s as a function of the piston speed v in a vertical mounting 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 the machine is being set up. When the clamping unit is used as a braking device, an increase in the overtravel as a function of the stress and the frequency of braking (wear) must be expected. The clamping unit DNCKE-S can be

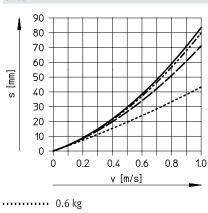
used in safety-related parts of control systems belonging to category 1 (welltried component) as defined by EN ISO 13849-1. For use in categories higher than category 1 to EN ISO 13849-1, the overtravel must be achieved even in the event of faults. It is dependent on the ambient conditions and stress, e.g.:

- Operating pressure
- Nominal size of switching valve

- Cable length
- Diameter of the connecting cable to the clamping unit
- · Load and speed

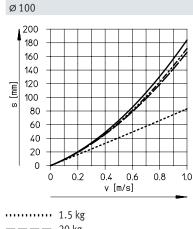
The overtravel can be reduced by attaching a quick exhaust valve to the compressed air supply port of the clamping unit.







••••• 27 kg 42 kg

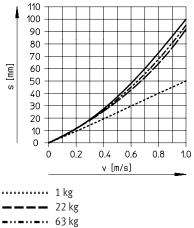


 1.5 кg
 20 kg
 100 kg
 200 kg

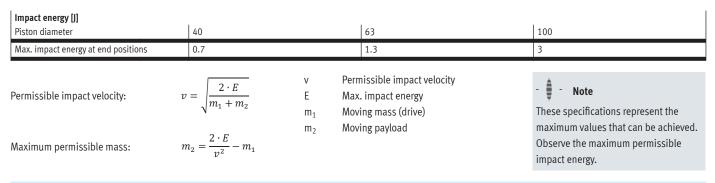


102 kg

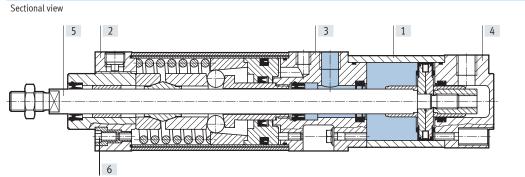
Ø63



## Data sheet



#### Materials

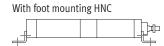


## Cylinder

[1]	Housing	Wrought aluminium alloy
[2]	Bearing cap	Wrought aluminium alloy
[3]	Connection cap	Wrought aluminium alloy
[4]	End cap	Die-cast aluminium
[5]	Piston rod	Tempered steel
[6]	Flange screws	Tempered steel
-	Seals	TPE-U(PU), NBR

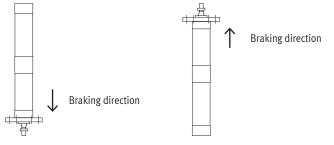
## Recommendation for mounting

As holding device, horizontal installation



#### As braking device, vertical installation

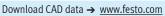
With flange mounting FNC (note braking direction)

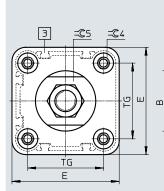


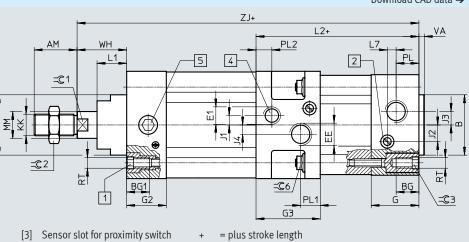
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## Data sheet

## Dimensions







[1] Socket head screw with female thread for mounting components

end-position cushioning

- components
  [2] Adjusting screw for adjustable
- [4] Connection to release clamping function
  - [5] Locking screw

ø	AM	B	BG	BG1	E	EE	E1	G	G2	G3	J1
[mm]		d11									
40	24	35	16	15	54	G1/4	G1/8	28.8	22	49.6	2
63	32	45	17	17	80	G3/8	G1/4	34.3	29.5	47.9	7
100	42	55	17	17	126	G1/2	G3/8	38	32.5	46.7	15
ø	J2	J3	J4	KK	L1	L2	L7	MM Ø	PL	PL1	PL2
[mm]											
40	8	6	0	M12x1.25	17.9	114.5	3.6	16	14	21.3	9
63	12.4	10	7	M16x1.5	22.1	121.5	6.6	20	17	14.6	11.8
100	12	10	10	M20x1.5	29.2	131.5	8	25	18.8	16.4	14.4
Ø	RT	TG	VA	WH	ZJ	=©1	=©2	=©3	=©4	=©5	=©6
[mm]											
40	M6	38	4	30	277	13	19	6	6	30	8
10						4.7	01				
63	M8	56.5	4	37	315	17	24	8	8	36	10

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

Ordering data

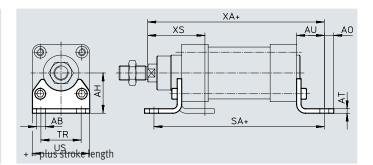
Ordering data			
Piston diameter	Stroke	Part no.	Туре
[mm]	[mm]		
40	102000	538239	DNCKE-40PPV-A-S
63	10 2000	538240	DNCKE-63PPV-A-S
100	10 2000	538241	DNCKE-100PPV-A-S

## Accessories

#### Foot mounting HNC

Material: Galvanised steel Free of copper and PTFE





#### Dimensions and ordering data

		0												
For diam.	AB	AH	AO	AT	AU	SA	TR	US	XA	XS	CRC <sup>1)</sup>	Weight	Part no.	Туре
[mm]	ø											[]		
[mm]												[g]		
40	10	36	9	4	28	303	36	54	305	53	2	193	174370	HNC-40
63	10	50	12.5	5	32	342	50	75	347	63	2	436	174372	HNC-63
100	14.5	71	17.5	6	41	439	75	110	449	86	2	1009	174374	HNC-100

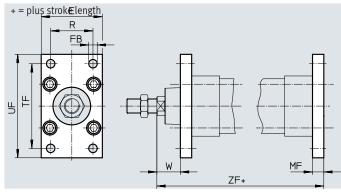
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

#### Flange mounting FNC

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





#### Dimensions and ordering data

For diam.	E	FB	MF	R	TF	UF	W	ZF	CRC <sup>1)</sup>	Weight	Part no.	Туре
		Ø										
[mm]		H13								[g]		
40	54	9	10	36	72	90	20	287	1	291	174377	FNC-40
40 63	54 75	9 9	10 12	36 50	1 /)	90 120	20 25	287 327	1 1	291 679	174377 174379	FNC-40 FNC-63

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

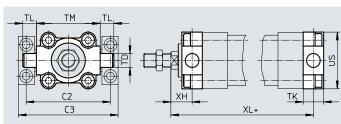
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

## Accessories

#### Trunnion flange ZNCF

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







Dimensions	s and orderi	ng data											
For diam.	C2	C3	TD	ТК	TL	TM	US	XH	XL	CRC <sup>1)</sup>	Weight	Part no.	Туре
			ø										
[mm]			e9								[g]		
40	87	105	16	20	16	63	54	20	287	2	285	174412	ZNCF-40
63	116	136	20	24	20	90	75	25	327	2	687	174414	ZNCF-63
100	164	189	25	38	25	132	110	32	427	2	2254	174416	ZNCF-100

1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

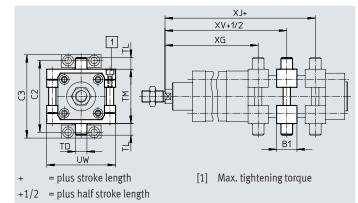
#### Trunnion flange kit DAMT

The kit can be attached at any position along the profile barrel of the cylinder. Material: Galvanised steel Free of copper and PTFE RoHS-compliant



261

346.6



911

2095

1

1

2214971

163530

DAMT-V1-63-A

DAMT-V1-100-A

#### Dimensions and ordering data

63

100

Dimensions	and oracing data							
For diam.	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 diam.	XG	XJ	XV	Max. tightening torque	CRC <sup>1)</sup>	Weight	Part no.	Туре
[mm]				[Nm]		[g]		
40	228.1	232.2	230.2	8+1	1	388	2214899	DAMT-V1-40-A

347.2 Corrosion resistance class CRC 1 to Festo standard FN 940070 1)

261.9

260.2

346

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

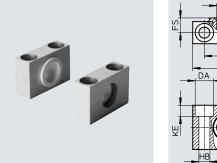
18+2

28+2

## Accessories

#### Trunnion support LNZG

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



# 

#### Dimensions and ordering data

For diam.	CR	DA	FK	FN	FS	H1	НВ	KE	NH	TH	UL	CRC <sup>1)</sup>	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	32960	LNZG-4 0/50
63	20	18	20	40	13	20	11	11	23	42	65	2	178	32961	LNZG-6 3/80
100	25	20	25	50	16	24.5	14	13	28.5	50	75	2	306	32962	LNZG-100/125

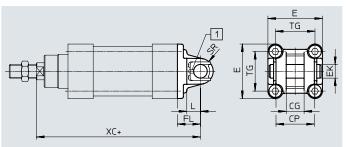
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

#### Swivel flange SNC

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





+ = plus stroke length

[1] The pivot pin is secured against rotation with a spring pin

Dimensions	and orderin	ıg data											
For diam.	CG	CP	E	EK	FL	L	SR	TG	XC	CRC <sup>1)</sup>	Weight	Part no.	Туре
				Ø									
[mm]	H14	h14		h9	±0.2						[g]		
40	16	40	54 <sub>-0.5</sub>	12	25	16	12	38	302	1	140	174384	SNC-40
63	21	51	75 <sub>-0.6</sub>	16	32	21	16	56.5	347	1	331	174386	SNC-63
100	25	75	110+0.3/-0.8	20	41	27	20	89	449	1	865	174388	SNC-100

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

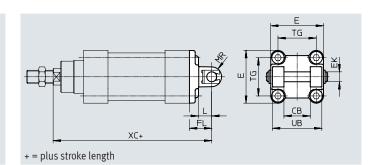
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

## Accessories

#### Swivel flange SNCB

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





#### Dimensions and ordering data

For diam.	CB	E	EK	FL	L	MR	TG	UB	XC	CRC <sup>1)</sup>	Weight	Part no.	Туре
			ø										
[mm]	H14		e8	±0.2				h14			[g]		
40	28	54 <sub>-0.5</sub>	12	25	16	12	38	52	302	1	155	174391	SNCB-40
63	40	75 <sub>-0.6</sub>	16	32	21	16	56.5	70	347	1	375	174393	SNCB-63
100	60	110+0.3/-0.8	20	41	27	20	89	110	449	1	1035	174395	SNCB-100

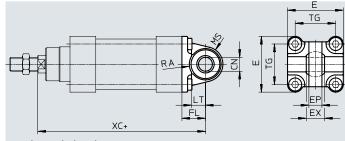
1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

#### Swivel flange SNCS

Material: SNCS 40: Die-cast aluminium SNCS 63 ... 100: Wrought aluminium alloy Free of copper and PTFE RoHS-compliant





+ = plus stroke length

Dimensions	Dimensions and ordering data													
For diam.	CN Ø	E	EP	EX	FL	LT	MS	RA	TG	XC	CRC <sup>1)</sup>	Weight	Part no.	Туре
[mm]			±0.2		±0.2			+1				[g]		
40	12+0.015	54-0.5	12	16	25	16	17+0.5	17.5	38	302	1	122	174398	SNCS-40
63	16+0.015	74.5±0.5	15	21	32	21	23-0.5	23	56.5	347	2	281	174400	SNCS-63
100	20+0.018	109+1/-0.7	18	25	41	27	30±0.5	95	89	449	2	683	174402	SNCS-100

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions). Corrosion resistance class CRC 2 to Festo standard FN 940070

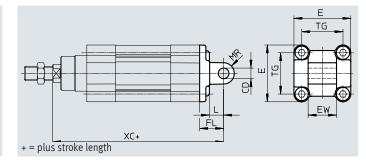
Moderate corrosion stress. Indoor applications in which condensation can occur. External visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment.

## Accessories

#### Swivel flange SNCL

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





#### Dimensions and ordering data

For diam.	CD	E	EW	FL	L	MR	TG	XC	CRC <sup>1)</sup>	Weight	Part no.	Туре
	ø											
[mm]	H9		-0.2/-0.6	±0.2						[g]		
40	12	5/	28	25	16	12	38	302	1	95	174405	SNCL-40
40	12	54 <sub>-0.5</sub>	20	25	10	12	50	502	-	//	174405	SNCL-40
63	12	75 <sub>-0.6</sub>	40	32	21	16	56.5	347	1	225	174405	SNCL-40

1) Corrosion resistance class CRC 1 to Festo standard FN 940070

Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Ordering data	– Mounting attach	iments						Data sheets $\rightarrow$ Internet: clevis foot
Designation	For diam.	Part no.	Туре	Des	signation	For diam.	Part no.	Туре
Clevis foot LNG	i			Cle	vis foot LSN			
$\frown$	40	33891	LNG-40			40	5562	LSN-40
2Q	63	33893	LNG-63			63	5564	LSN-63
C CO	100	33895	LNG-100		0	100	5566	LSN-100
Clevis foot LSN	G			Cle	evis foot LSNS	G		
	40	31741	LSNG-40		3	40	31748	LSNSG-40
	63	31743	LSNG-63		$\partial$	63	31750	LSNSG-63
Keg	100	31745	LSNG-100		$\mathcal{V}$	100	31752	LSNSG-100
Clevis foot LBG				Rig	ht-angle clev	ris foot LQG		
(Pro	40	31762	LBG-40		$\overline{\mathbf{O}}$	40	31769	LQG-40
(PP)	63	31764	LBG-63		T BR	63	31771	LQG-63
Weg	100	31766	LBG-100		Ted and the second s	100	31773	LQG-100

# Accessories

Designation	For diam.	Part no.	Туре	
Rod eye SGS				
<u> </u>	40	9262	SGS-M12x1.25	
	63	9263	SGS-M16x1.5	
	100	9264	SGS-M20x1.5	
Rod clevis SG				
	40	6145	SG-M12x1.25	
	63	6146	SG-M16x1.5	
	100	6147	SG-M20x1.5	
Coupling piece	KSG			
	40	32964	KSG-M12x1.25	
0	63	32965	KSG-M16x1.5	
601	100	32966	KSG-M20x1.5	

		Data sheets -	<ul> <li>Internet: piston rod attachment</li> </ul>
Designation	For diam.	Part no.	Туре
Rod clevis SGA			
	40	10767	SGA-M12x1.25
	63	10768	SGA-M16x1.5
	100	10769	SGA-M20x1.5
Self-aligning rod	coupler FK		
	40	6141	FK-M12x1.25
	63	6142	FK-M16x1.5
	100	6143	FK-M20x1.5

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

Stroke [mm]	Part no.	Туре
For diam. 40 mm		
10 50	34499	FENG-40-50-KF
10 100	34500	FENG-40-100-KF
10 160	34501	FENG-40-160-KF
10 200	34502	FENG-40-200-KF
10 250	34503	FENG-40-250-KF
10 320	34504	FENG-40-320-KF
10 400	150291	FENG-40-400-KF
10 500	34505	FENG-40-500-KF
For diam. 100 mm		
10 50	34529	FENG-100-50-KF
10 100	34530	FENG-100-100-KF
10 160	34531	FENG-100-160-KF
10 200	34532	FENG-100-200-KF
10 250	34533	FENG-100-250-KF
10 320	34534	FENG-100-320-KF
10 400	34535	FENG-100-400-KF
10 500	34536	FENG-100-500-KF

Stroke	Part no.	Data sheets → Internet: fe
[mm]		
For diam. 63 mm		
10 50	34513	FENG-63-50-KF
10 100	34514	FENG-63-100-KF
10 160	34515	FENG-63-160-KF
10 200	34516	FENG-63-200-KF
10 250	34517	FENG-63-250-KF
10 320	34518	FENG-63-320-KF
10 400	34519	FENG-63-400-KF
10 500	34520	FENG-63-500-KF

#### Ordering data – Guide units for variable strokes

Ordering data – Guide u	inits for variable st	rokes				Data sheets → Internet: feng
	For diam.	Stroke	With recirculati	ing ball bearing guide	With plain-bea	aring guide
	[mm]	[mm]	Part no.	Туре	Part no.	Туре
	40	10 500	34488	FENG-40KF	34482	FENG-40GF
	63	10 500	34490	FENG-63KF	34484	FENG-63GF
	100	10 500	34492	FENG-100KF	34486	FENG-100GF
		· · ·	·			

## Accessories

	a – Mounting kits for proximity switches SMT-8				La l	Data sheets → Internet: sm
	For diam. [mm]				Part no.	Туре
122	40				175705	SMB-8-FENG-3 2/40
	63				175706	SMB-8-FENG-5 0/63
Ŋ-)	100				175707	SMB-8-FENG-8 0/100
$\checkmark$						
Ondenine dete	a – Proximity switches for T-slot, magneto-resis	*i				
ordering data	Type of mounting	Switching	Electrical connection	Cable law ath	Part no.	Data sheets → Internet: s
	lype of mounting	0	Electrical connection	Cable length	Part no.	Туре
		output		[m]		
N/O contact						
	Inserted in the slot from above,	PNP	Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2,5-OE
13 3 4 × 1	flush with the cylinder profile,		Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0.3-M8D
(J)	short design		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						
	Inserted in the slot from above,	PNP	Cable, 3-wire	7.5	574340	SMT-8M-A-PO-24V-E-7.5-OE
as de	flush with the cylinder profile,					
AL BA	short design					
Ordering data	a – Proximity switches for T-slot, magnetic reed					Data sheets → Internet: s
	Type of mounting	Switching	Electrical connection	Cable length	Part no.	Туре
		output		[m]		
N/O contact						
	Inserted in the slot from above, flush with	Contacting	Cable, 3-wire	2.5	543862	SME-8M-DS-24V-K-2,5-OE
2 B	the cylinder profile			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
~/	$\supset$ Inserted in the slot lengthwise, flush with	Contacting	Cable, 3-wire	2.5	150855	SME-8-K-LED-24
	the cylinder profile		Plug M8x1, 3-pin	0.3	150857	SME-8-S-LED-24
N/C contact	· · · · · · · · · · · · · · · · · · ·					
//	$\supset$ Inserted in the slot lengthwise, flush with	Contacting	Cable, 3-wire	7.5	160251	SME-8-0-K-LED-24
<u>s</u>	the cylinder profile	contacting			100291	

## Accessories

## Ordering data – Connecting cables

Ordering dat	a – Connecting cables				Data sheets → 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	541333	NEBU-M8G3-K-2.5-LE3
OF LINE			5	541334	NEBU-M8G3-K-5-LE3
ON P	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
Contraction of the second seco	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 – Slot cover for T-slot

oracing aata							
	Mounting	Length	Part no.	Туре			
		[m]					
	Insertable	2x 0.5	151680	ABP-5-S			

Ordering data	g data – One-way flow control valves Data sheets → Internet: grla							
	Connection		Material	Part no.	Туре			
	Thread	For tubing O.D.						
	G1/8	3	Metal version	193142	GRLA-1/8-QS-3-D			
		4		193143	GRLA-1/8-QS-4-D			
		6		193144	GRLA-1/8-QS-6-D			
		8		193145	GRLA-1/8-QS-8-D			
	G1/4	6		193146	GRLA-1/4-QS-6-D			
		8		193147	GRLA-1/4-QS-8-D			
		10		193148	GRLA-1/4-QS-10-D			
	G3/8	6		193149	GRLA-3/8-QS-6-D			
		8		193150	GRLA-3/8-QS-8-D			
		10		193151	GRLA-3/8-QS-10-D			
	G1/2	12		193152	GRLA-1/2-QS-12-D			

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