

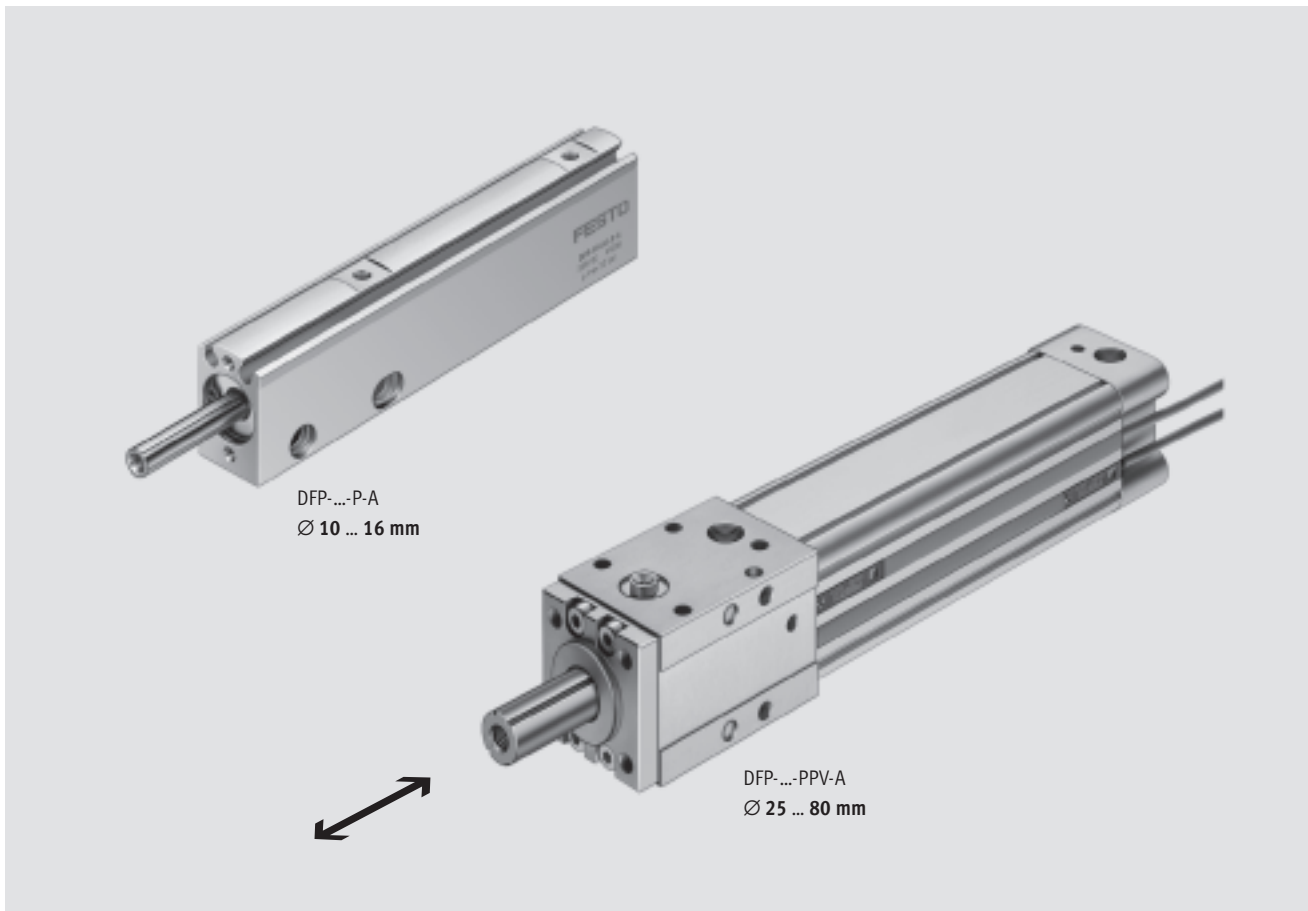
**Guided cylinders DFP**



# Guided cylinders DFP

Features

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## Brief description

- Double-acting
- High-precision guidance thanks to recirculating ball bearing guide
- Able to absorb high torques
- Saves space in comparison with standard cylinders with external guide unit
- Flexible cushioning rings/plates at both ends for  $\varnothing 10 \dots 16 \text{ mm}$
- Pneumatic cushioning adjustable at both ends for  $\varnothing 25 \dots 80 \text{ mm}$
- For contactless position sensing

# Guided cylinders DFP

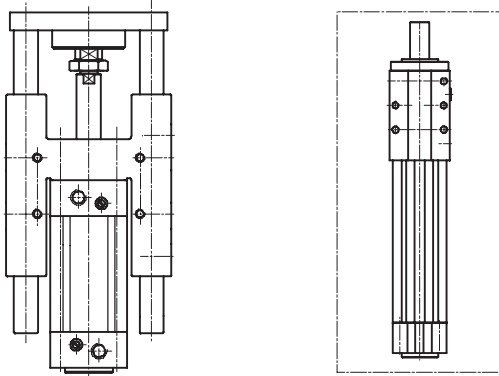
Features

FESTO

## Less installation space required

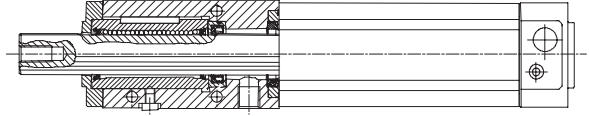
Standard cylinder with guide unit

Guided cylinder DFP



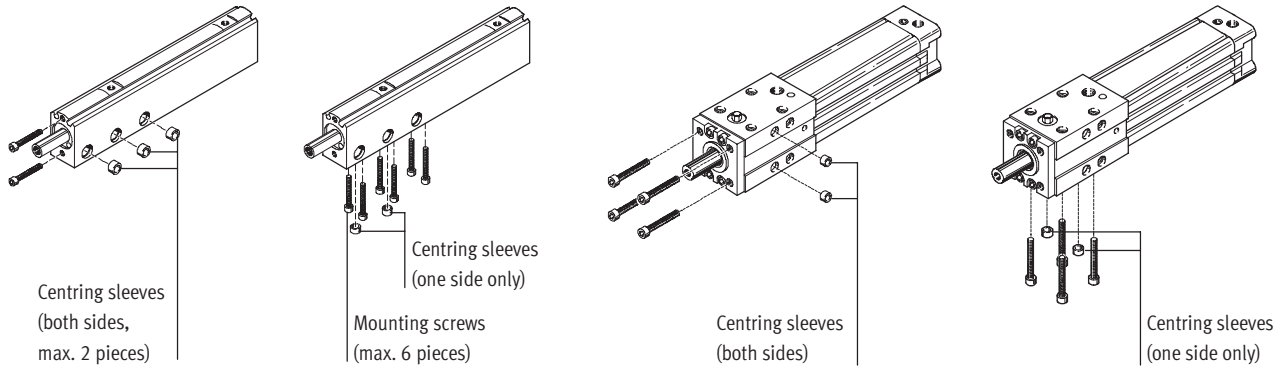
## High precision

Grooved piston rod with recirculating ball bearing guide

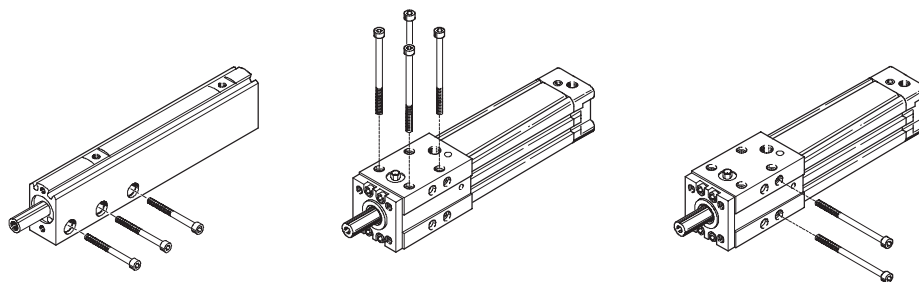


## Mounting options

Via female thread



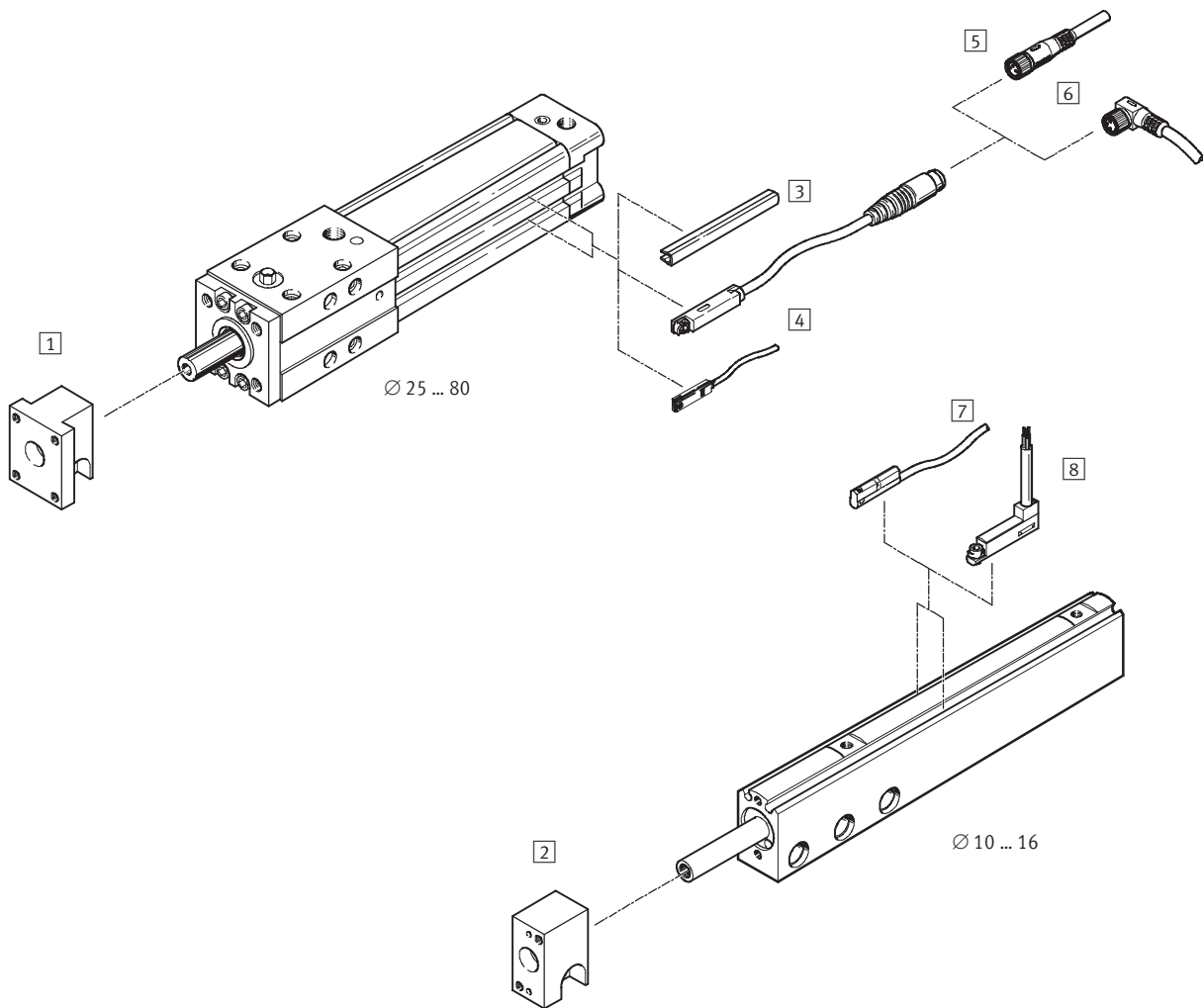
Via through-holes



# Guided cylinders DFP

Peripherals overview

FESTO



Accessories				
	Brief description	Piston $\varnothing$ [mm]		→ Page/Internet
		10 ... 16	25 ... 32	
1	Push-on flange FFP	–	■	16
2	Push-on flange FFP	■	–	16
3	Slot cover ABP-5-S	–	■	18
4	Proximity sensors SME/SMT-8	–	■	18
5	Connecting cable, straight NEBU	–	■	18
6	Connecting cable, angled NEBU	–	■	18
7	Proximity sensors SME/SMT-10	■	–	17
8	Proximity sensors SME/SMT-10F	■	–	17
–	Centring pins/sleeves ZBH	■	■	17

# Guided cylinders DFP

Type codes

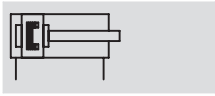
		DFP	–	50	–	80	–	PPV	–	A	–	S2
<b>Type</b>												
Double-acting												
DFP	Guided cylinder											
<b>Piston Ø [mm]</b>												
<b>Stroke [mm]</b>												
<b>Cushioning</b>												
P	Flexible cushioning rings/plates at both ends											
PPV	Pneumatic cushioning adjustable at both ends											
<b>Sensing</b>												
A	For proximity sensing											
<b>Variant</b>												
S2	Through piston rod											

# Guided cylinders DFP

Technical data

FESTO

## Function



- $\varnothing$  - Diameter  
10 ... 16 mm
- | - Stroke length  
25 ... 100 mm

- - [www.festo.com](http://www.festo.com)

## Variant

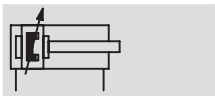


S2



DFP-...-P-A

## Function



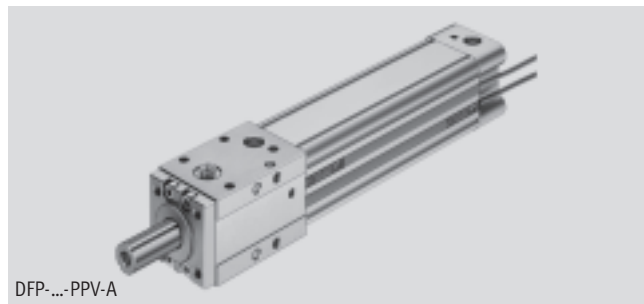
- $\varnothing$  - Diameter  
25 ... 80 mm
- | - Stroke length  
25 ... 500 mm

- - [www.festo.com](http://www.festo.com)

## Variant



S2



DFP-...-PPV-A

General technical data						
Piston $\varnothing$	10	16	25	32	50	80
Pneumatic connection	M3	M5	G $\frac{1}{8}$	G $\frac{1}{8}$	G $\frac{1}{4}$	G $\frac{3}{8}$
Operating medium	Filtered compressed air, lubricated or unlubricated					
Guide	Via ball bearings					
Cushioning	Flexible cushioning rings/plates at both ends			Adjustable at both ends		
Cushioning length [mm]	-	-	17	20	22	32
Position sensing	For proximity sensing					
Type of mounting	Via female threads					
	Using through holes					
Mounting position	Any					

Operating and environmental conditions	
Operating pressure [bar]	0.5 ... 10
Ambient temperature <sup>1)</sup> [°C]	-10 ... +60

1) Note operating range of proximity sensors

Forces [N] and impact energy [Nm]						
Piston $\varnothing$	10	16	25	32	50	80
Theoretical force at 6 bar, advancing <sup>1)</sup>	47	121	295	483	1,178	3,016
Theoretical force at 6 bar, retracting	31	91	217	364	884	2,262
Max. impact energy at the end positions	0.05	0.07	0.2	0.35	0.6	1.6

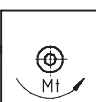
1) The force in the advance stroke is the same as the force in the return stroke with the variant S2.

# Guided cylinders DFP

Technical data

FESTO

Speed [m/s]							
Piston Ø		10	16	25	32	50	80
Maximum speed advancing	$v_{maxA}$	0.8	0.8	1.5	1.5	1	0.9
Maximum speed retracting	$v_{maxL}$	0.8	0.8	1.5	1.5	1	0.7

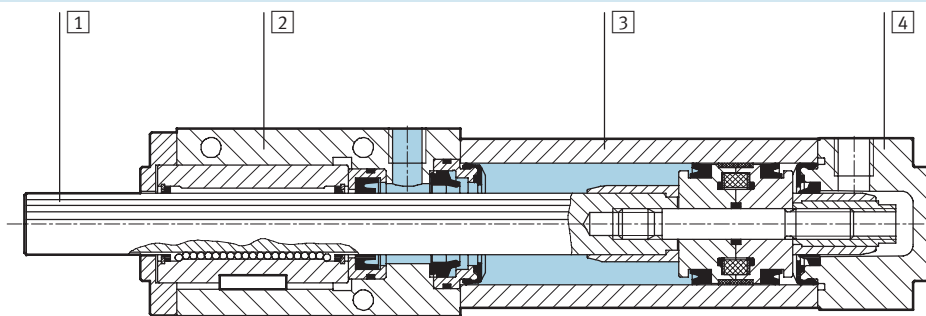
Max. torque <sup>1)</sup> [Nm]							
Piston Ø		10	16	25	32	50	80
	dynamic	0.2	0.4	1.1	5.8	19	75
	static	0.4	0.6	2.7	8.5	25	100

1) Torque at piston rod

Weights [g]													
Stroke [mm]	Piston Ø												
	10		16		25		32		50		80		
	Basic version	S2	Basic version	S2	Basic version	S2	Basic version	S2	Basic version	S2	Basic version	S2	
25	118	124	180	195	590	652	–	–	–	–	–	–	
50	147	156	218	238	660	737	1,180	1,297	2,960	3,351	8,077	8,814	
80	173	185	263	290	740	836	1,295	1,439	3,150	3,570	8,561	9,414	
100	198	212	293	325	794	902	1,357	1,519	3,340	3,855	8,856	9,787	
160	–	–	–	–	957	1,102	1,590	1,805	3,804	4,468	9,786	10,949	
200	–	–	–	–	–	–	1,732	1,983	4,100	4,863	10,460	11,778	
250	–	–	–	–	–	–	1,914	2,210	4,490	5,377	11,289	12,801	
320	–	–	–	–	–	–	–	–	5,030	6,091	12,436	14,220	
400	–	–	–	–	–	–	–	–	5,610	6,869	13,750	15,844	
500	–	–	–	–	–	–	–	–	–	–	15,442	17,924	

## Materials

Sectional view

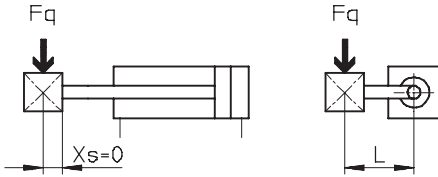


Guided cylinder	
1	Piston rod Tempered steel
2	Bearing end cap Aluminium
3	Cylinder barrel Anodised aluminium
4	End cap Aluminium
–	Seals Polyurethane, polyacetal, nitrile rubber
Note on material Free of copper, PTFE and silicone	

# Guided cylinders DFP

Technical data

## Max. permissible dynamic lateral force $F_q$ at the piston rod



## Calculation of the max. permissible dynamic lateral force $F_q$

$$F_q = \frac{A}{(B + X_s + H) \times K + 1 + C \times L}$$

- $F_q$  = Permissible lateral force [N]
- $A$  = Equivalent bearing load [N]
- $B$  = Constant [mm]
- $C$  = Constant [1/mm]
- $H$  = Stroke [mm]
- $L$  = Lever arm [mm]
- $K$  = Constant [1/mm]
- $X_s$  = Distance from centre of mass [mm]

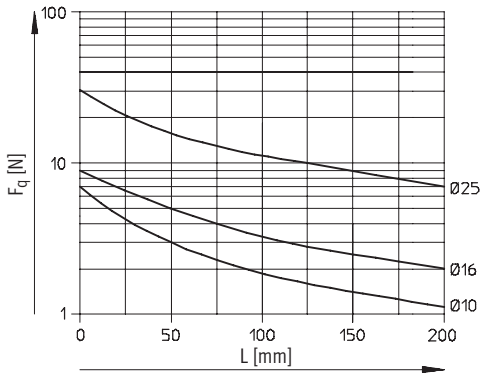
## Calculation parameters

	Piston $\varnothing$ [mm]					
	10	16	25	32	50	80
A	220	274	725	1,460	2,430	5,620
B	37.5	37.5	48	57	75.5	96
C	0.84	0.51	0.4	0.22	0.14	0.09
K	0.47	0.47	0.3	0.19	0.13	0.088

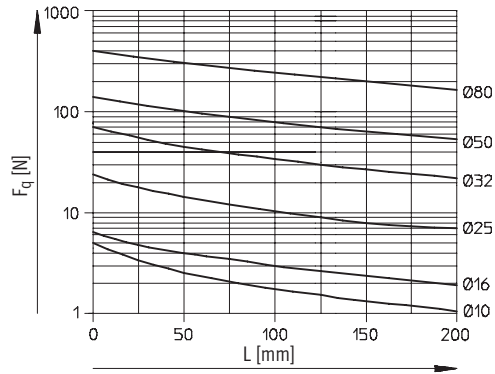
## Max. permissible dynamic lateral force $F_q$ at the piston rod as a function of the lever arm $L$

Distance from the centre of mass  $X_s = 0$  mm

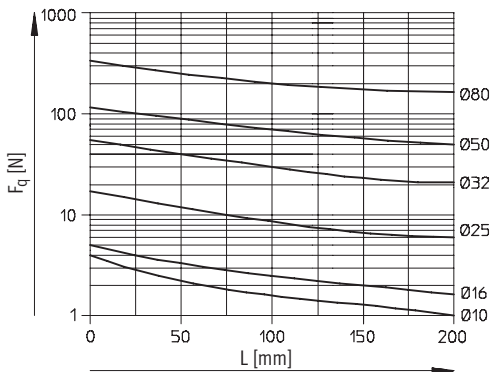
Fq with 25 mm stroke



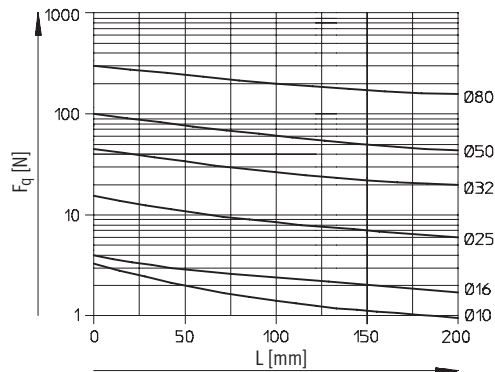
Fq with 50 mm stroke



Fq with 80 mm stroke



Fq with 100 mm stroke





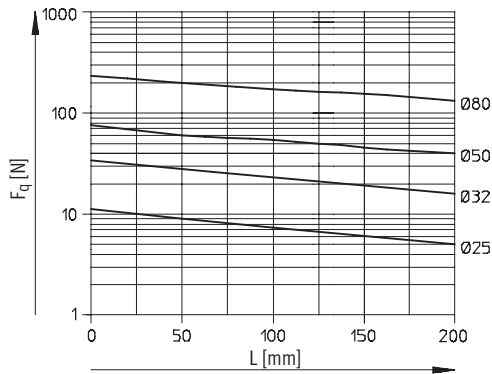
# Guided cylinders DFP

Technical data

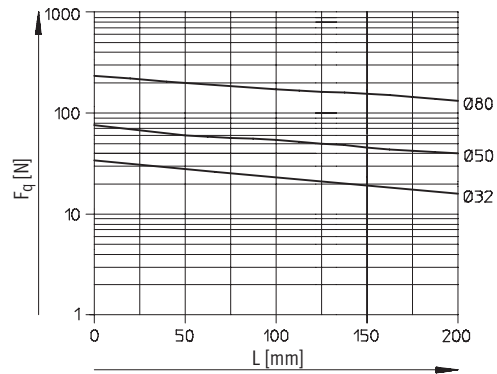
## Max. permissible dynamic lateral force $F_q$ at the piston rod as a function of the lever arm $L$

Distance from the centre of mass  $X_s = 0$  mm

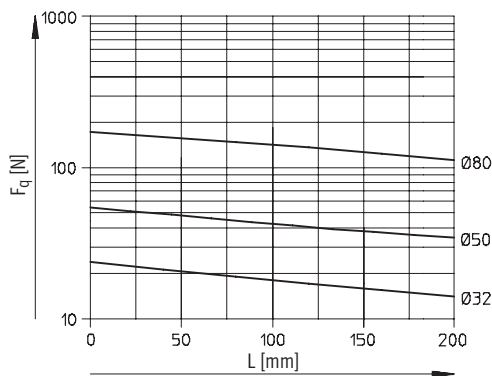
F<sub>q</sub> with 160 mm stroke



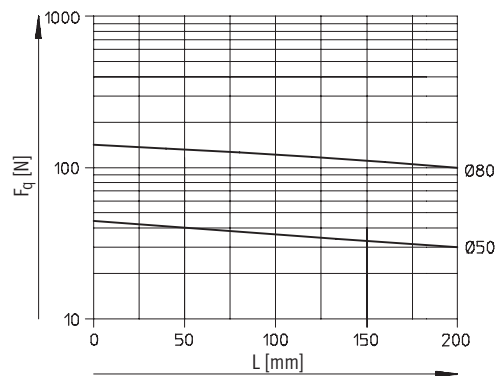
F<sub>q</sub> with 200 mm stroke



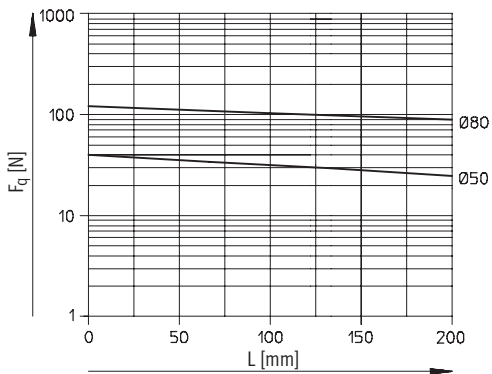
F<sub>q</sub> with 250 mm stroke



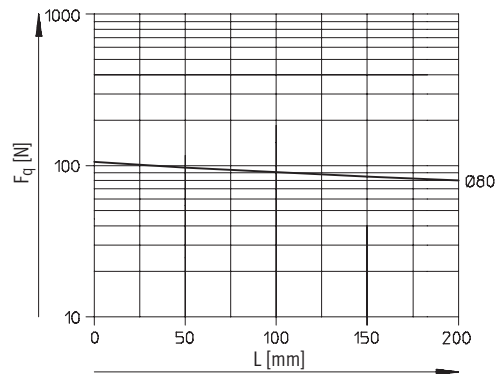
F<sub>q</sub> with 320 mm stroke



F<sub>q</sub> with 400 mm stroke



F<sub>q</sub> with 500 mm stroke

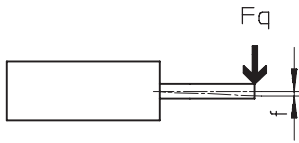


# Guided cylinders DFP

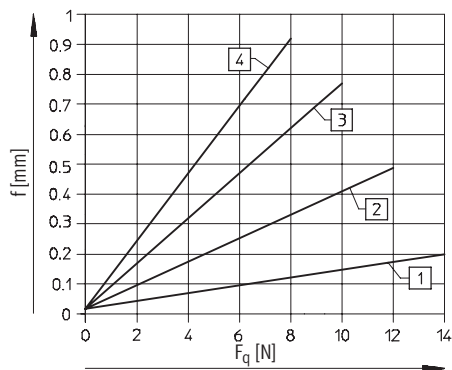
Technical data

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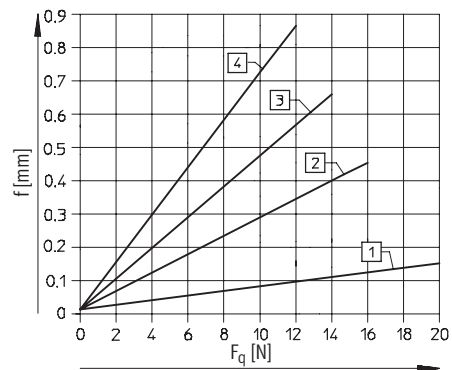
## Deflection $f$ at the piston rod as a function of the lateral force $F_q$



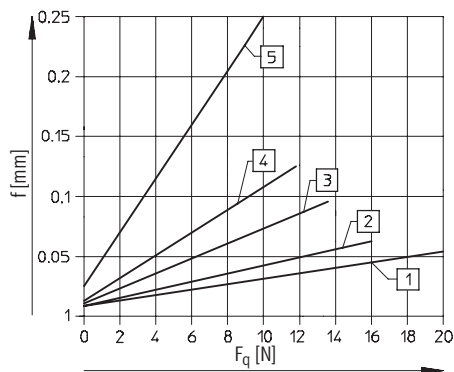
DFP-10



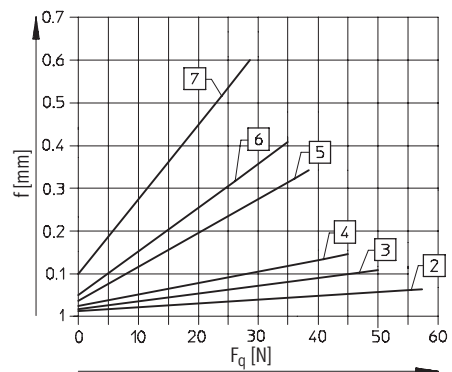
DFP-16



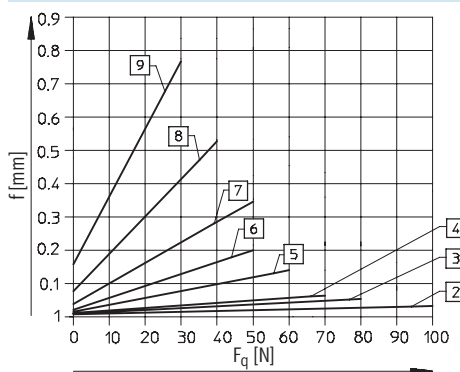
DFP-25



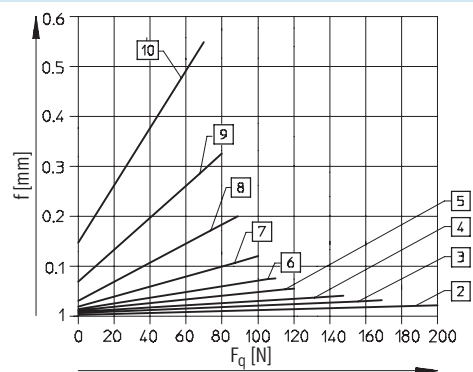
DFP-32



DFP-50



DFP-80



- 1 25 mm stroke
- 2 50 mm stroke
- 3 80 mm stroke

- 4 100 mm stroke
- 5 160 mm stroke
- 6 200 mm stroke

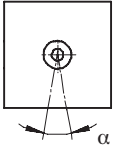
- 7 250 mm stroke
- 8 320 mm stroke

- 9 400 mm stroke
- 10 500 mm stroke

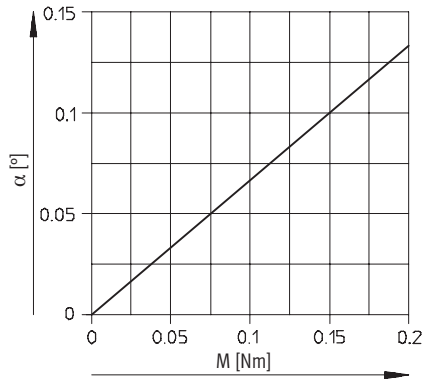
# Guided cylinders DFP

Technical data

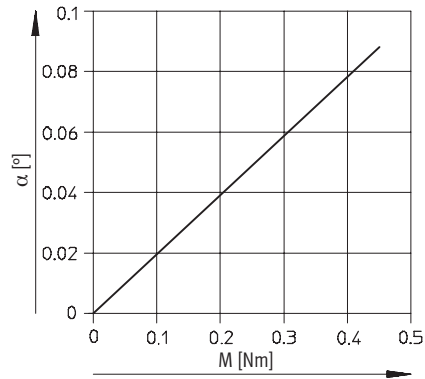
## Torsion angle $\alpha$ of the piston rod as a function of the torque M



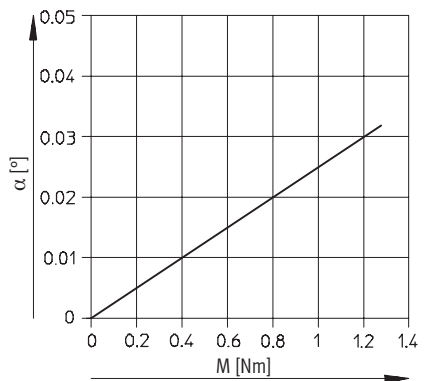
DFP-10



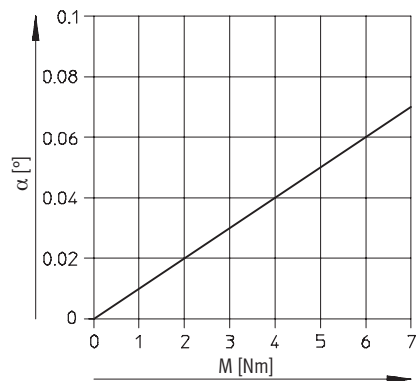
DFP-16



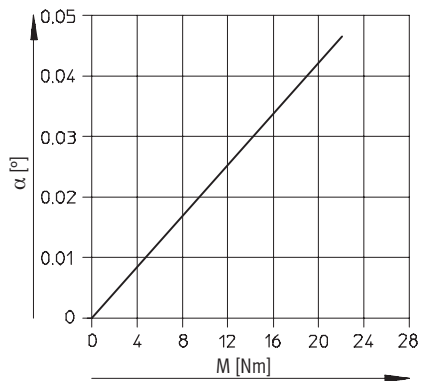
DFP-25



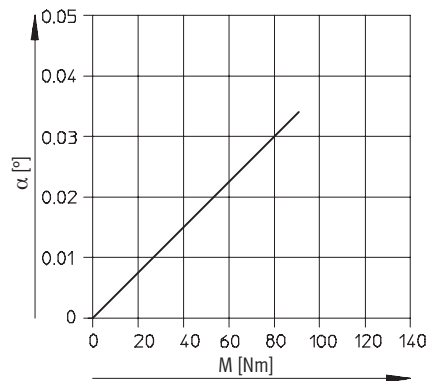
DFP-32



DFP-50



DFP-80



# Guided cylinders DFP

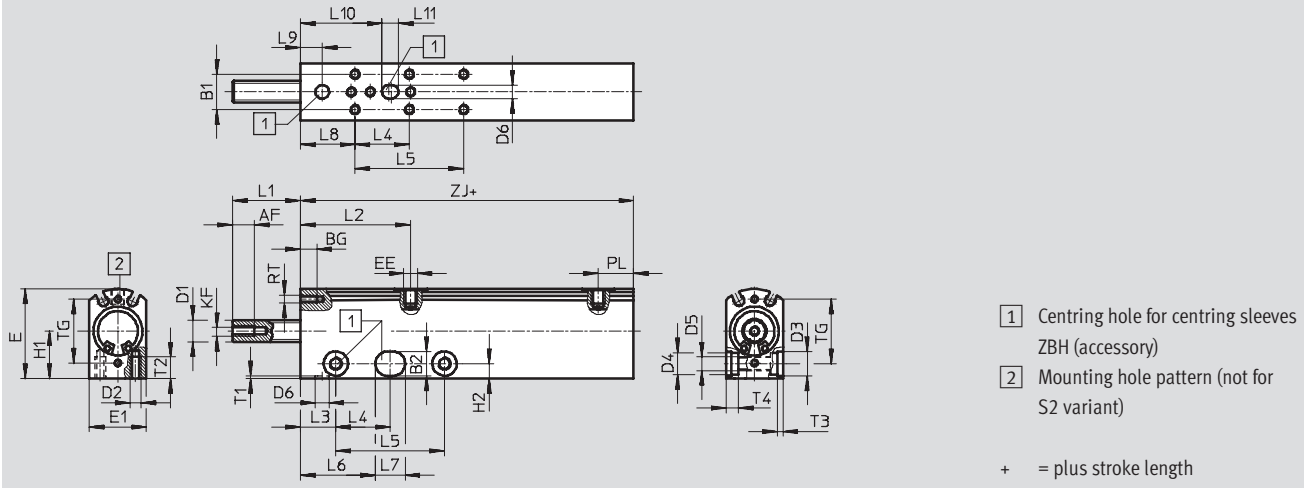
Technical data

FESTO

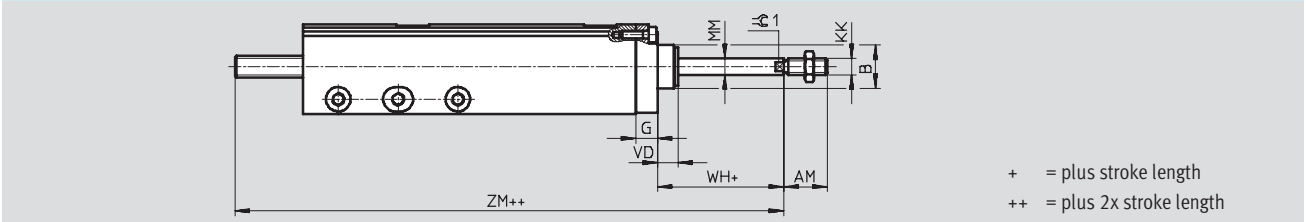
## Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)

Piston Ø 10...16 mm



## Variant S2



Ø	AF	AM	B Ø	B1	B2 Ø H7	BG	D1 Ø h7	D2	D3 Ø H7	D4	D5	D6 Ø H7	E	E1	EE
10	8	12	-	11	7	6	6	M3	7	6	M4	5	28	17	M3
16	8	16	15.9	13	9	6	8	M4	9	8	M5	5	33	21	M5

Ø	G	H1	H2	KF	KK	L1	L2	L3	L4	L5 <sup>1)</sup>	L6	L7	L8	L9	L10
[mm]						min.									
10	6	14.3	4.5	M4	M4	25	38.5	12.5	25	50	33	9	5.5	5.5	28.5
16	8	17.5	5.5	M4	M6	25	40.5	13	20	44	27.5	11	20	8	30

Ø	L11	MM Ø	PL	RT	T1	T2	T3	T4	TG	VD	WH	ZJ	ZM	≈ 1
[mm]														
10	6	4	12	M2.5	1	6	1.6	3.2	21	-	4.8	65	100.8	-
16	6	6	13	M3	1	8	2.1	4.6	23.5	7.5	12.5	72.5	118	5

1) With stroke > 80 mm

# Guided cylinders DFP

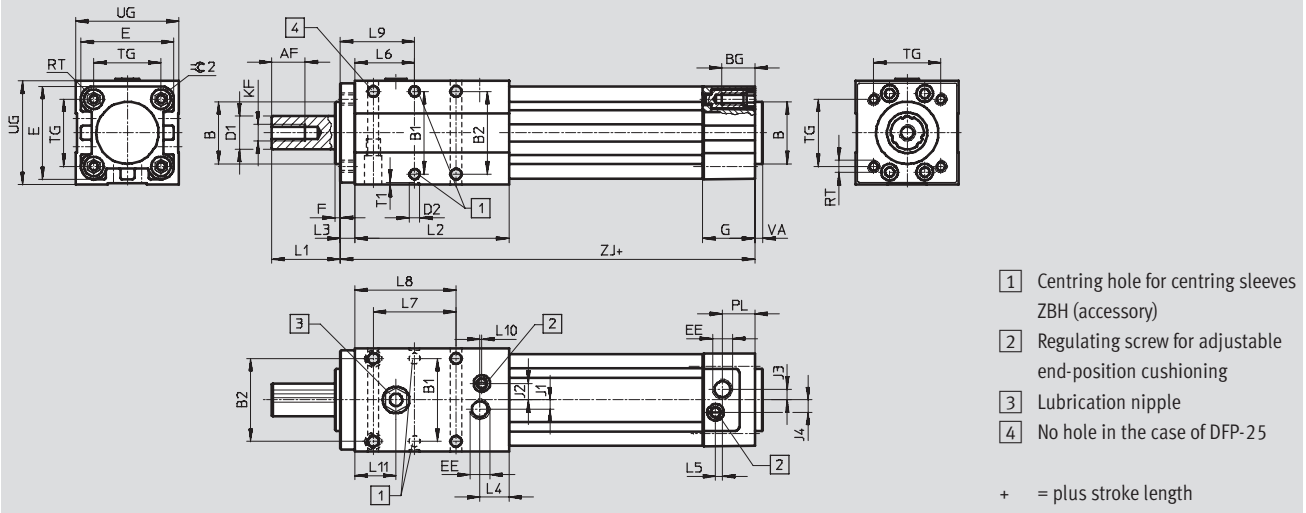
Technical data

FESTO

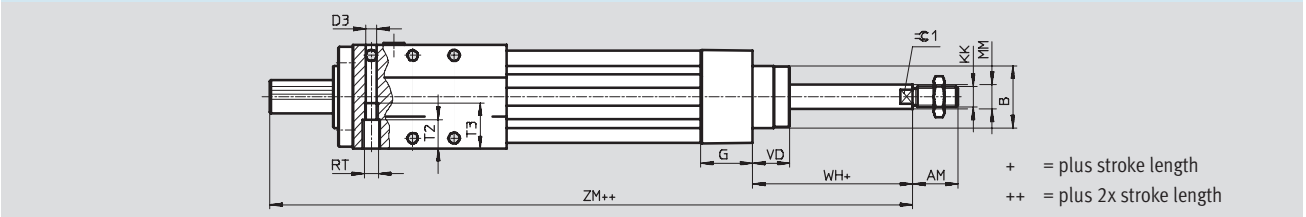
## Dimensions

Piston  $\varnothing$  25 ... 80 mm

Download CAD data → [www.festo.com](http://www.festo.com)



## Variant S2



$\varnothing$ [mm]	AF	AM	B $\varnothing$ d11	B1 $\pm 0.02$	B2	BG	D1 $\varnothing$ h7	D2 $\varnothing$ H7	D3 $\varnothing$	I	EE	F	G	J1	J2
25	12.5	22	25	31	31	14	13	5	4.5	38	G1/8	2.5	22	3.6	7
32	16	22	30	40	40	16	16	5	5.3	45	G1/8	2.5	25.1	4.5	8
50	20	32	40	52	52	17	25	9	6.6	64	G1/4	2.5	29.6	7.5	14
80	24	40	45	75	75	17	40	9	8.4	93	G3/8	2.5	35.9	7	20


$\varnothing$ [mm]	J3	J4	KF	KK	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11
25	3.1	6	M6	M10x1.25	30	58	6.5	11.8	4.1	22.5	31	38	29	2.3	12.8
32	5.2	6	M8	M10x1.25	32	74.5	7	14	3.3	29	40	49	36	1	20
50	8.5	10.4	M10	M16x1.5	40	107.5	10	18	5.1	44	52	70	54	4.2	29
80	8	12.5	M12	M20x1.5	41	143	14	23	10.5	58.5	75	96	72.5	5	39.5

$\varnothing$ [mm]	MM $\varnothing$ f8	PL	RT	T1	T2	T3	TG	UG	VA	VD	WH	ZJ	ZM	$\approx \varnothing 1$	$\approx \varnothing 2$
25	10	8.5	M5	1	11	21	27	40	2	17.5	29.4	119.5	179	9	5
32	12	15.6	M6	1	14	22	32.5	50	4	18	26	150.4	210	10	6
50	20	14	M8	2.1	16	32	46.5	66	4	28	37	194	273	17	8
80	25	16.4	M10	2.1	20	40	72	96	4	34.7	46	249	338	22	6

# Guided cylinders DFP

Technical data

**FESTO**


Ordering data – Basic version						
Design	Stroke [mm]	Part No.	Type <sup>1)</sup>	Stroke [mm]	Part No. Type <sup>1)</sup>	
	Piston Ø 10 mm			Piston Ø 16 mm		
	25	186 729	DFP-10-25-P-A	25	186 733	DFP-16-25-P-A
	50	186 730	DFP-10-50-P-A	50	186 734	DFP-16-50-P-A
	80	186 731	DFP-10-80-P-A	80	186 735	DFP-16-80-P-A
	100	186 732	DFP-10-100-P-A	100	186 736	DFP-16-100-P-A
	Piston Ø 25 mm			Piston Ø 32 mm		
	25	186 737	DFP-25-25-PPV-A	25	–	–
	50	186 738	DFP-25-50-PPV-A	50	186 742	DFP-32-50-PPV-A
	80	186 739	DFP-25-80-PPV-A	80	186 743	DFP-32-80-PPV-A
	100	186 740	DFP-25-100-PPV-A	100	186 744	DFP-32-100-PPV-A
	160	186 741	DFP-25-160-PPV-A	160	186 745	DFP-32-160-PPV-A
	200	–	–	200	186 746	DFP-32-200-PPV-A
	250	–	–	250	186 747	DFP-32-250-PPV-A
	Piston Ø 50 mm			Piston Ø 80 mm		
	50	186 748	DFP-50-50-PPV-A	50	186 756	DFP-80-50-PPV-A
	80	186 749	DFP-50-80-PPV-A	80	186 757	DFP-80-80-PPV-A
	100	186 750	DFP-50-100-PPV-A	100	186 758	DFP-80-100-PPV-A
	160	186 751	DFP-50-160-PPV-A	160	186 759	DFP-80-160-PPV-A
	200	186 752	DFP-50-200-PPV-A	200	186 760	DFP-80-200-PPV-A
	250	186 753	DFP-50-250-PPV-A	250	186 761	DFP-80-250-PPV-A
	320	186 754	DFP-50-320-PPV-A	320	186 762	DFP-80-320-PPV-A
	400	186 755	DFP-50-400-PPV-A	400	186 763	DFP-80-400-PPV-A
	500	–	–	500	186 764	DFP-80-500-PPV-A

1) In each case the scope of delivery includes 2 of the centring sleeves listed as accessories. Centring sleeves are supplied to repeat order in packs of 10. Proximity sensors and mounting screws are not included in the scope of delivery for guided cylinders.

# Guided cylinders DFP

Technical data

**FESTO**

Ordering data – Variants						
Design	Stroke [mm]	Part No.	Type <sup>1)2)</sup>	Stroke [mm]	Part No. Type <sup>1)2)</sup>	
<b>S2 – Through piston rod</b>						
	Piston Ø 10 mm			Piston Ø 16 mm		
	25	186 765	DFP-10-25-P-A-S2	25	186 769	DFP-16-25-P-A-S2
	50	186 766	DFP-10-50-P-A-S2	50	186 770	DFP-16-50-P-A-S2
	80	186 767	DFP-10-80-P-A-S2	80	186 771	DFP-16-80-P-A-S2
	100	186 768	DFP-10-100-P-A-S2	100	186 772	DFP-16-100-P-A-S2
	Piston Ø 25 mm			Piston Ø 32 mm		
	25	186 773	DFP-25-25-PPV-A-S2	25	–	–
	50	186 774	DFP-25-50-PPV-A-S2	50	186 778	DFP-32-50-PPV-A-S2
	80	186 775	DFP-25-80-PPV-A-S2	80	186 779	DFP-32-80-PPV-A-S2
	100	186 776	DFP-25-100-PPV-A-S2	100	186 780	DFP-32-100-PPV-A-S2
	160	186 777	DFP-25-160-PPV-A-S2	160	186 781	DFP-32-160-PPV-A-S2
	200	–	–	200	186 782	DFP-32-200-PPV-A-S2
	250	–	–	250	186 783	DFP-32-250-PPV-A-S2
	Piston Ø 50 mm			Piston Ø 80 mm		
	50	186 784	DFP-50-50-PPV-A-S2	50	186 792	DFP-80-50-PPV-A-S2
	80	186 785	DFP-50-80-PPV-A-S2	80	186 793	DFP-80-80-PPV-A-S2
	100	186 786	DFP-50-100-PPV-A-S2	100	186 794	DFP-80-100-PPV-A-S2
	160	186 787	DFP-50-160-PPV-A-S2	160	186 795	DFP-80-160-PPV-A-S2
	200	186 788	DFP-50-200-PPV-A-S2	200	186 796	DFP-80-200-PPV-A-S2
	250	186 789	DFP-50-250-PPV-A-S2	250	186 797	DFP-80-250-PPV-A-S2
320	186 790	DFP-50-320-PPV-A-S2	320	186 798	DFP-80-320-PPV-A-S2	
400	186 791	DFP-50-400-PPV-A-S2	400	186 799	DFP-80-400-PPV-A-S2	
500	–	–	500	186 800	DFP-80-500-PPV-A-S2	

- 1) In each case the scope of delivery includes 2 of the centring sleeves listed as accessories. Centring sleeves are supplied to repeat order in packs of 10. Proximity sensors and mounting screws are not included in the scope of delivery for guided cylinders.
- 2) The scope of delivery also includes a hex nut for the piston rod thread.

# Guided cylinders DFP

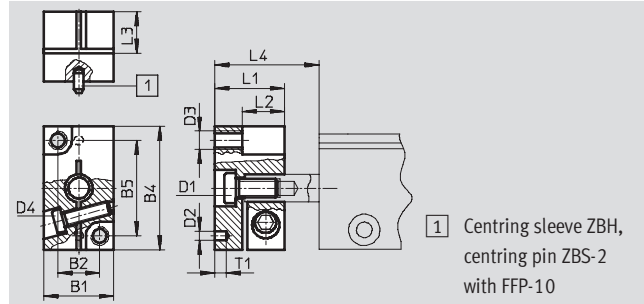
Accessories



## Push-on flange FFP

for piston  $\varnothing$  10 ... 16 mm

Material:  
Wrought aluminium alloy  
Free of copper, PTFE and silicone



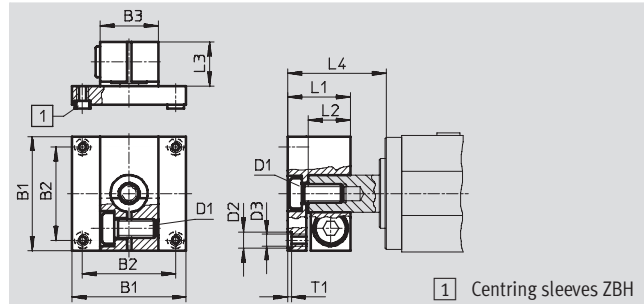
Dimensions and ordering data																
For $\varnothing$	B1	B2	B4	B5	D1	D2	D3	D4	L1	L2	L3	L4	T1	CRC <sup>1)</sup>	Part No.	Type
[mm]		$\pm 0.02$				$\varnothing$ H7							$+0.2$			
10	15	9	26	20	M4	2	M4	M3	15	8.5	9	31.5	2.5	2	<b>186 801</b>	<b>FFP-10</b>
16	19	12	33	26	M4	5	M4	M4	17	10.5	11	31.5	1	2	<b>186 802</b>	<b>FFP-16</b>

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 surrounding industrial atmosphere or media such as cooling or lubricating agents

## Push-on flange FFP

for piston  $\varnothing$  25 ... 80 mm

Material:  
Wrought aluminium alloy  
Free of copper, PTFE and silicone



Dimensions and ordering data															
For $\varnothing$	B1	B2	B3	D1	D2	D3	L1	L2	L3	L4	T1	CRC <sup>1)</sup>	Part No.	Type	
[mm]		$\pm 0.02$			$\varnothing$ H7						$+0.2$				
25	38	30	22	M6	7	M5	27	18	19	39	1.6	2	<b>186 803</b>	<b>FFP-25</b>	
32	49	40	25	M8	7	M5	27	18	19	41	1.6	2	<b>186 804</b>	<b>FFP-32</b>	
50	64	50	36	M10	9	M6	35	23	25	52	2.1	2	<b>186 805</b>	<b>FFP-50</b>	
80	94	70	54	M12	12	M8	40	25	27	56	2.6	2	<b>186 806</b>	<b>FFP-80</b>	

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 surrounding industrial atmosphere or media such as cooling or lubricating agents



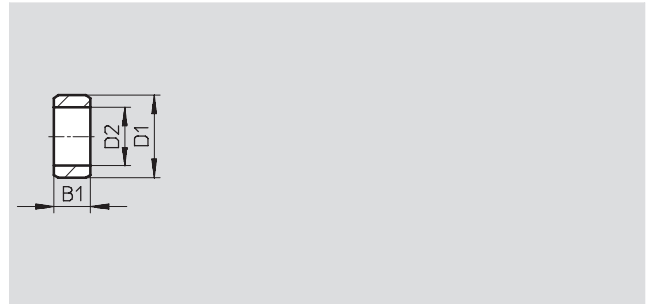
# Guided cylinders DFP

Accessories



## Centring sleeves ZBH

Material:  
Steel, corrosion resistant  
Free of copper, PTFE and silicone



Dimensions and ordering data							
D1	B1	D2	CRC <sup>1)</sup>	Weight	Part No.	Type	PU <sup>2)</sup>
∅		∅		[g]			
h7	-0.2						
5	2.4	3.2	2	1	<b>189 652</b>	<b>ZBH-5</b>	10
7	3	5.3	2	1	<b>186 717</b>	<b>ZBH-7</b>	10
9	4	6.4	2	1	<b>150 927</b>	<b>ZBH-9</b>	10

- 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 surrounding industrial atmosphere or media such as cooling or lubricating agents
- 2) Packaging unit quantity

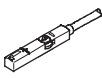

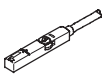
Ordering data – Proximity sensors for C-slot, magneto-resistive						Technical data → Internet: smt	
	Type of mounting	Switch output	Electrical connection, connection direction	Cable length [m]	Part No.	Type	
N/O contact							
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire, in-line	2.5	<b>525 915</b>	<b>SMT-10F-PS-24V-K2,5L-OE</b>	
			Plug M8x1, 3-pin, in-line	0.3	<b>525 916</b>	<b>SMT-10F-PS-24V-K0,3L-M8D</b>	
			Plug M8x1, 3-pin, lateral	0.3	<b>526 675</b>	<b>SMT-10F-PS-24V-K0,3Q-M8D</b>	
	Insertable in the slot lengthwise	PNP	Plug M8x1, 3-pin, in-line	0.3	<b>173 220</b>	<b>SMT-10-PS-SL-LED-24</b>	
			Cable, 3-wire, in-line	2.5	<b>173 218</b>	<b>SMT-10-PS-KL-LED-24</b>	

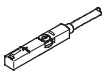


Ordering data – Proximity sensors for C-slot, magnetic reed						Technical data → Internet: sme	
	Type of mounting	Switch output	Electrical connection, connection direction	Cable length [m]	Part No.	Type	
N/O contact							
	Insertable in the slot from above, flush with cylinder profile	Contacting	Plug M8x1, 3-pin, in-line	0.3	<b>525 914</b>	<b>SME-10F-DS-24V-K0,3L-M8D</b>	
			Cable, 3-wire, in-line	2.5	<b>525 913</b>	<b>SME-10F-DS-24V-K2,5L-OE</b>	
			Cable, 2-wire, in-line	2.5	<b>526 672</b>	<b>SME-10F-ZS-24V-K2,5L-OE</b>	
	Insertable in the slot lengthwise	Contacting	Plug M8x1, 3-pin, in-line	0.3	<b>173 212</b>	<b>SME-10-SL-LED-24</b>	
			Cable, 3-wire, in-line	2.5	<b>173 210</b>	<b>SME-10-KL-LED-24</b>	



# Guided cylinders DFP

Accessories

FESTO

Ordering data – Proximity sensors for T-slot, magneto-resistive						Technical data → Internet: smt	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type	
<b>N/O contact</b>							
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	2.5	543 867	SMT-8M-PS-24V-K-2,5-OE	
			Plug M8x1, 3-pin	0.3	543 866	SMT-8M-PS-24V-K-0,3-M8D	
			Plug M12x1, 3-pin	0.3	543 869	SMT-8M-PS-24V-K-0,3-M12	
		NPN	Cable, 3-wire	2.5	543 870	SMT-8M-NS-24V-K-2,5-OE	
			Plug M8x1, 3-pin	0.3	543 871	SMT-8M-NS-24V-K-0,3-M8D	
			Plug M12x1, 3-pin	0.3	543 872	SMT-8M-NS-24V-K-0,3-M12	
	Insertable in the slot lengthwise, flush with the cylinder profile	PNP	Cable, 3-wire	2.5	175 436	SMT-8-PS-K-LED-24-B	
			Plug M8x1, 3-pin	0.3	175 484	SMT-8-PS-S-LED-24-B	
<b>N/C contact</b>							
	Insertable in the slot from above, flush with cylinder profile	PNP	Cable, 3-wire	7.5	543 873	SMT-8M-PO-24V-K7,5-OE	

Ordering data – Proximity sensors for T-slot, magnetic reed						Technical data → Internet: sme	
	Type of mounting	Switch output	Electrical connection	Cable length [m]	Part No.	Type	
<b>N/O contact</b>							
	Insertable in the slot from above, flush with cylinder profile	Contacting	Cable, 3-wire	2.5	543 862	SME-8M-DS-24V-K-2,5-OE	
				5.0	543 863	SME-8M-DS-24V-K-5,0-OE	
			Plug M8x1, 3-pin	2.5	543 872	SME-8M-ZS-24V-K-2,5-OE	
				0.3	543 861	SME-8M-DS-24V-K-0,3-M8D	
	Insertable in the slot lengthwise, flush with the cylinder profile	Contacting	Cable, 3-wire	2.5	150 855	SME-8-K-LED-24	
			Plug M8x1, 3-pin	0.3	150 857	SME-8-S-LED-24	
<b>N/C contact</b>							
	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 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	541 333	NEBU-M8G3-K-2.5-LE3	
			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	

Ordering data – Slot cover for T-slot					
	Mounting	Length	Part No.	Type	
	Insertable from above	2x 0.5 m	151 680	ABP-5-S	