

Parallel grippers DHPG

FESTO



Key features

At a glance

General

- Resilient and precise ball guide
- High gripping forces with compact dimensions
- Max. repetition accuracy
- Wide range of mounting and connection options
- Optionally with protective dust cap

Flexible range of applications

- Can be used as a double-acting or single-acting gripper
- Suitable for external and internal gripping

Gripper characteristic

[L] Long stroke

- Available for sizes 10 ... 25

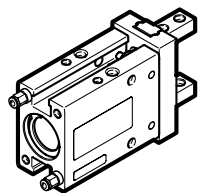
Gripping force retention

[NC] Normally closed



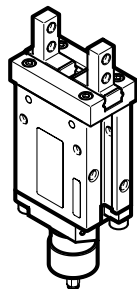
Pneumatic connection

[B] Underneath



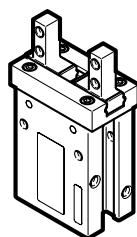
Pneumatic connection

[Z] Via mounting spigot



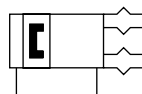
Type of mounting for gripper finger

[1] Mounting holes on the side



Position sensing

[A] Via proximity switch



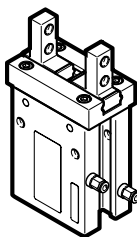
Gripping force retention

[NO] Normally open



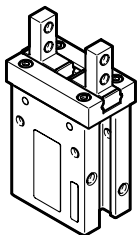
Pneumatic connection

[S] On the side



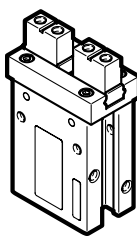
Type of mounting for gripper finger

[] Standard



Type of mounting for gripper finger

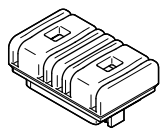
[2] Flat gripper fingers



Key features

Dust protection

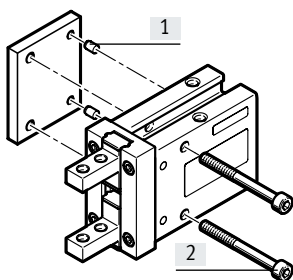
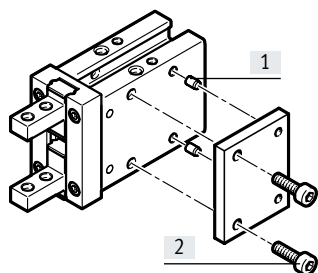
[C] Protective dust cap



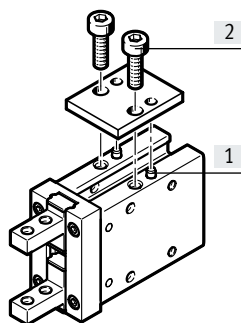
- Available for sizes 10 ... 25

Mounting options

On the side

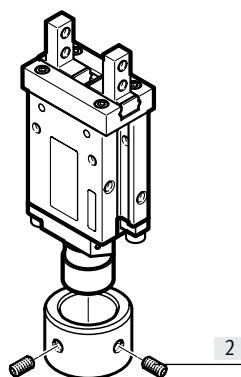
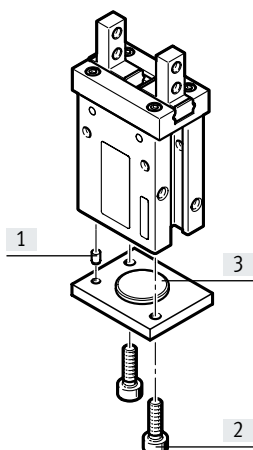
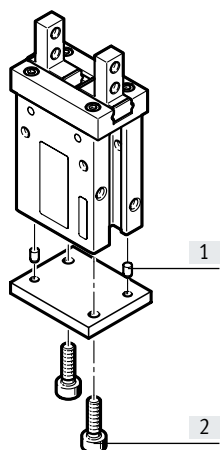


Vertical



[1] Centring sleeves
[2] Retaining screws

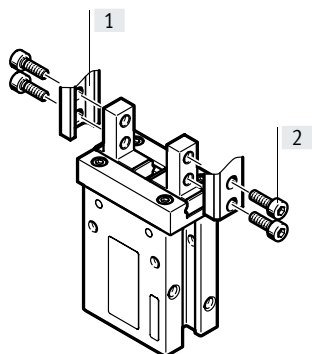
From underneath



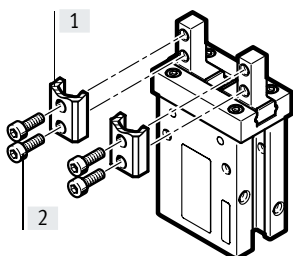
[1] Centring sleeves
[2] Retaining screws
[3] Base

Mounting of external gripper fingers

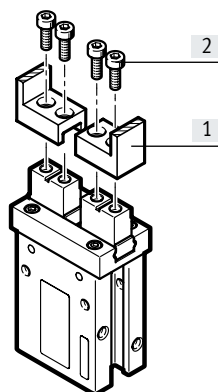
Standard



Mounting holes on the side



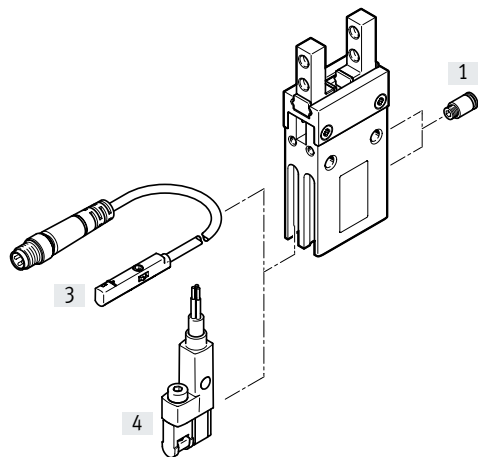
Flat gripper fingers



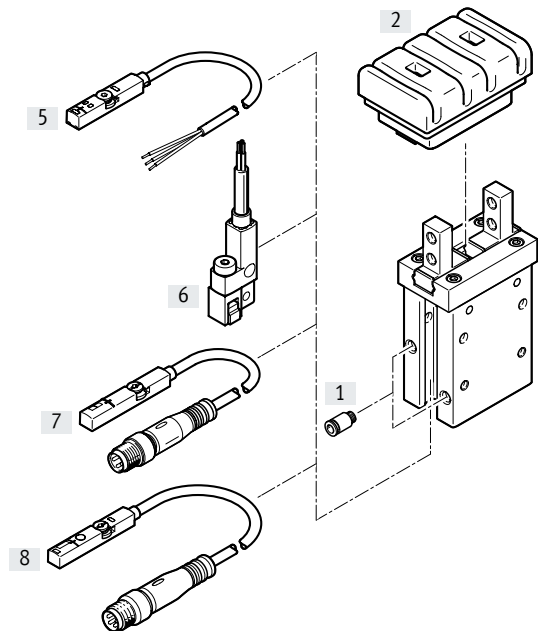
[1] External gripper fingers
[2] Retaining screws

Peripherals overview

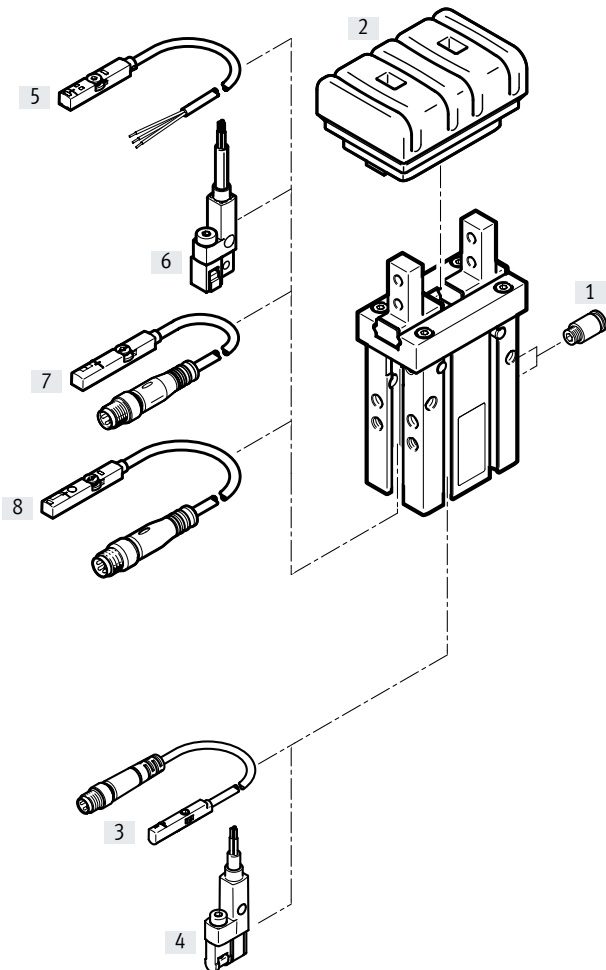
Peripherals overview
Size: 6



Size 10



Size 16 ... 40



Peripherals overview

Accessories			
	Type/order code	For size	Description
			→ Page/Internet
[1]	Push-in fitting QS	6 ... 40	For connecting tubing with standard O.D.
[2]	Protective dust cap DHAS-DP	10 ... 25	For protecting the gripper against ingress of dust
[3]	Proximity switch SMT-10M	6, 16 ... 40	For sensing the piston position at the end positions
[4]	Proximity switch SMT-10G	6, 16 ... 40	For sensing the piston position at the end positions
[5]	Proximity switch SMT-8M	10 ... 40	For sensing the piston position at the end positions
[6]	Proximity switch SMT-8G	10 ... 40	For sensing the piston position at the end positions
[7]	Position transmitter SMAT-8M	10 ... 40	For sensing the piston position at any location
[8]	Position transmitter SDAS-MHS	10 ... 40	For sensing the piston position at any location

Type codes

001	Series	
DHPC	Parallel gripper	
002	Gripper characteristic	
	Standard	
L	Long stroke	
003	Size	
6	6	
10	10	
16	16	
20	20	
25	25	
32	32	
40	40	
004	Position sensing	
A	For proximity sensor	

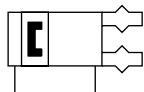
005	Gripping force backup	
	None	
NC	N/O contact	
NO	Opening	
006	Pneumatic connection	
B	Bottom	
S	On the side	
Z	Via mounting spigot	
007	Dust protection	
	None	
C	Protective dust cap	
008	Type of mounting gripper finger	
	None	
1	Mounting holes at the side	
2	Flat gripper fingers	

Data sheet

Function

Double-acting

DHPC-...-A



-  - Size
6 ... 40 mm

-  - Total stroke
4 ... 30 mm

Function

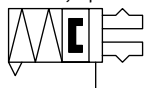
Single-acting with gripping force

retention

Normally closed: DHPC-...-NC



Normally open: DHPC-...-NO



General technical data								
Size		6	10	16	20	25	32	40
Design		Lever						
		Force-guided motion sequence						
		Connection direction underneath						
		Connection direction on the side						
		Connection via mounting spigot						
		Type of mounting of gripper fingers: standard						
		Sideways mounting of gripper fingers						
		Flat mounting of gripper fingers						
Mode of operation		Double-acting						
		Single-acting						
		Closed						
		Open						
Gripper function		Parallel						
Guide		Ball guide						
Number of gripper jaws		2						
Max. mass per gripper finger ¹⁾	[g]	18	120	360	450	550	820	1100
Stroke per gripper jaw								
Standard gripper characteristic	[mm]	2	2	3	5	7	11	15
Long stroke gripper characteristic	[mm]	–	4	6	9	11	–	
Pneumatic connection		M3			M5			
Connection via mounting spigot		M5						
Gripper repetition accuracy ²⁾	[mm]	≤ 0.02						
Max. interchangeability	[mm]	0.2						
Max. operating frequency of gripper	[Hz]	3						1
Rotational symmetry	[mm]	≤ 0.2						
Position sensing		Via proximity switch						
Type of mounting		Direct mounting via through-hole						
		Direct mounting via thread						
	–	With through-hole and dowel pin						
	–	With female thread and dowel pin						
		On mounting frame						
Mounting position		Any						

1) Applies to unthrottled operation

2) Under constant exposure to operating conditions, end-position drift occurs in the direction of movement of the gripper jaws, at 100 consecutive strokes

Data sheet

Operating and environmental conditions								
Size		6	10	16	20	25	32	40
Min. operating pressure								
Double-acting	[MPa]	0.15	0.2	0.1	0.1	0.1	0.1	0.1
Single-acting	[MPa]	0.35	0.35	0.25	0.25	0.25	0.25	0.25
Double-acting	[bar]	1.5	2	1	1	1	1	1
Single-acting	[bar]	3.5	3.5	2.5	2.5	2.5	2.5	2.5
Max. operating pressure								
	[MPa]	0.8	0.8	0.8	0.8	0.8	0.8	0.8
	[bar]	8	8	8	8	8	8	8
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)							
Ambient temperature ¹⁾	[°C]	-10 ... +60						

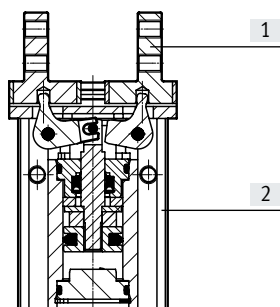
1) Note operating range of proximity switches

Weight [g]								
Size		6	10	16	20	25	32	40
Double-acting								
DHPC...A-S		25	49	110	224	440	778	1396
DHPC...A-S-1		25	49	110	224	440	778	1396
DHPC...A-S-2		25	49	113	224	437	773	1487
DHPC...A-B		25	49	111	224	441	779	1408
DHPC...A-B-1		25	49	111	224	441	779	1408
DHPC...A-B-2		25	49	114	224	438	774	1481
DHPC-L...A-S		-	59	121	261	484	-	-
DHPC-L...A-S-1		-	59	121	261	484	-	-
DHPC-L...A-S-2		-	59	124	261	484	-	-
DHPC-L...A-B		-	59	124	261	484	-	-
DHPC-L...A-B-1		-	59	124	261	484	-	-
DHPC-L...A-B-2		-	59	127	261	484	-	-
Single-acting								
DHPC...A...S		27	57	111	224	441	831	1469
DHPC...A...S-1		27	57	111	224	441	831	1469
DHPC...A...S-2		27	57	114	224	438	826	1560
DHPC...A...B		27	57	112	224	442	832	1473
DHPC...A...B-1		27	57	112	224	442	832	1473
DHPC...A...B-2		27	57	115	224	439	821	1564
DHPC...A...Z		31	66	136	270	519	938	1649
DHPC...A...Z-1		31	66	136	270	519	938	1649
DHPC...A...Z-2		31	66	139	270	516	933	1740
DHPC-L...A...S		-	66	126	261	495	-	-
DHPC-L...A...S-1		-	66	126	261	495	-	-
DHPC-L...A...S-2		-	66	129	261	495	-	-
DHPC-L...A...B		-	66	126	261	495	-	-
DHPC-L...A...B-1		-	66	126	261	495	-	-
DHPC-L...A...B-2		-	66	129	261	495	-	-
DHPC-L...A...Z		-	74	151	306	571	-	-
DHPC-L...A...Z-1		-	74	151	306	571	-	-
DHPC-L...A...Z-2		-	74	154	306	571	-	-

Data sheet

Materials

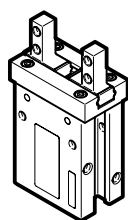
Sectional view



Parallel grippers

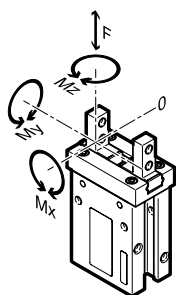
[1] Gripper jaws	High-alloy stainless steel
[2] Housing	Anodised aluminium
– Protective dust cap	NBR
– Note on materials	Free of paint-wetting impairment substances
	RoHS-compliant

Gripping force [N] at 6 bar



Size		6	10	16	20	25	32	40
Gripping force per gripper jaw								
DHPC-...-A	Opening	7.3	25.6	64.7	96.3	152.6	246.9	388.6
	Closing	5.5	21.5	53.9	79.8	127.8	221.3	358.6
DHPC-...-NO	Closing	3.9	16.4	43.4	69.7	120.6	207.6	337.5
DHPC-...-NC	Opening	5.2	19.6	50.5	85.5	145.7	233	366.8

Characteristic load values at the gripper jaws

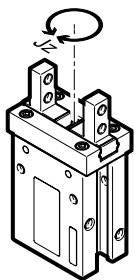


The indicated permissible forces and torques apply to a single gripper jaw. They include the lever arm, additional applied loads due to the workpiece or external gripper fingers and acceleration forces occurring during movement.

The zero coordinate line (gripper jaw guide) must be taken into consideration when calculating torques.

Size		6	10	16	20	25	32	40
Max. permitted force F	[N]	5	29	49	73.5	127.5	171.5	245
Max. permissible torque M_x	[Nm]	0.02	0.13	0.34	0.66	0.97	1.5	2.3
Max. permissible torque M_y	[Nm]	0.04	0.27	0.68	1.33	1.94	3	4.5
Max. permissible torque M_z	[Nm]	0.02	0.13	0.68	0.66	0.97	1.5	2.3

Data sheet

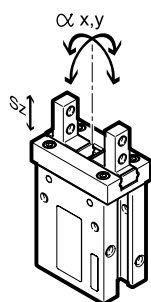
Mass moments of inertia [kgm²×10⁻⁴]

Mass moment of inertia of the parallel gripper in relation to the central axis, without external gripper fingers, with no load.

Size	6	10	16	20	25	32	40
Double-acting							
DHPC...A-S	0.011	0.04	0.146	0.515	1.6	5.54	14.87
DHPC...A-S-1	0.011	0.04	0.146	0.515	1.6	5.54	14.87
DHPC...A-S-2	0.011	0.04	0.147	0.515	1.59	5.51	15.84
DHPC...A-B	0.011	0.04	0.148	0.515	1.6	5.55	15.49
DHPC...A-B-1	0.011	0.04	0.148	0.515	1.6	5.55	15.49
DHPC...A-B-2	0.011	0.04	0.149	0.515	1.59	5.51	16.3
DHPC-L...A-S	–	0.057	0.214	0.515	2.14	–	–
DHPC-L...A-S-1	–	0.057	0.214	0.515	2.14	–	–
DHPC-L...A-S-2	–	0.057	0.219	0.515	2.14	–	–
DHPC-L...A-B	–	0.057	0.215	0.515	2.14	–	–
DHPC-L...A-B-1	–	0.057	0.215	0.515	2.14	–	–
DHPC-L...A-B-2	–	0.057	0.220	0.515	2.14	–	–
Single-acting							
DHPC...A...S	0.012	0.045	0.146	0.515	1.6	5.76	15.31
DHPC...A...S-1	0.012	0.045	0.146	0.515	1.6	5.76	15.31
DHPC...A...S-2	0.012	0.045	0.150	0.515	1.59	5.73	16.27
DHPC...A...B	0.012	0.045	0.148	0.515	1.6	5.77	15.35
DHPC...A...B-1	0.012	0.045	0.148	0.515	1.6	5.77	15.35
DHPC...A...B-2	0.012	0.045	0.152	0.515	1.59	5.69	16.31
DHPC...A...Z	0.013	0.049	0.167	0.574	1.76	6.08	16.17
DHPC...A...Z-1	0.013	0.049	0.167	0.574	1.76	6.08	16.17
DHPC...A...Z-2	0.013	0.049	0.171	0.574	1.75	6.01	17.06
DHPC-L...A...S	–	0.062	0.215	0.764	2.18	–	–
DHPC-L...A...S-1	–	0.062	0.215	0.764	2.18	–	–
DHPC-L...A...S-2	–	0.062	0.220	0.764	2.18	–	–
DHPC-L...A...B	–	0.062	0.216	0.764	2.18	–	–
DHPC-L...A...B-1	–	0.062	0.216	0.764	2.18	–	–
DHPC-L...A...B-2	–	0.062	0.221	0.764	2.18	–	–
DHPC-L...A...Z	–	0.069	0.258	0.828	2.34	–	–
DHPC-L...A...Z-1	–	0.069	0.258	0.828	2.34	–	–
DHPC-L...A...Z-2	–	0.069	0.263	0.828	2.34	–	–

Data sheet

Gripper jaw backlash

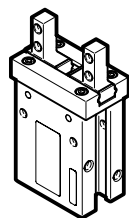


The gripper has a ball guide, which eliminates any possible backlash between the gripper jaws and the housing. The backlash values listed in the table have been calculated based on the traditional accumulative tolerance method.

Size	6	10	16	20	25	32	40
Max. gripper jaw backlash Sz [mm]	0						
Max. gripper jaw angular backlash α x, y [°]	0						

Opening and closing times [ms] at 6 bar

Without external gripper fingers



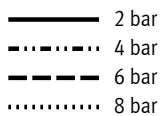
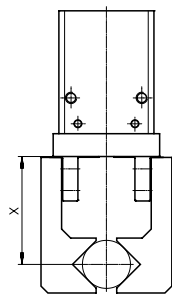
The indicated opening and closing times [ms] were measured at room temperature at an operating pressure of 6 bar with a horizontally mounted gripper without additional gripper fingers. The grippers must be throttled for larger loads [g]. Opening and closing times must then be adjusted accordingly.

Size		6	10	16	20	25	32	40
DHPC...-A	Opening	9	12	29	62	79	114	158
	Closing	11	14	31	40	68	107	153
DHPC...-A-NO	Opening	8	28	29	75	131	174	300
	Closing	6	26	11	29	38	76	67
DHPC...-A-NC	Opening	16	12	30	86	114	162	370
	Closing	16	26	65	38	49	55	78
DHPC-L...-A	Opening	–	15	40	110	162	–	–
	Closing	–	15	40	75	93	–	–
DHPC-L...-A-NO	Opening	–	22	18	156	171	–	–
	Closing	–	12	17	51	46	–	–
DHPC-L...-A-NC	Opening	–	25	50	176	176	–	–
	Closing	–	26	52	50	83	–	–

Data sheet

Gripping force F_{Gr} per gripper jaw as a function of the operating pressure and lever arm x

The gripping forces as a function of the operating pressure and lever arm can be determined from the following graphs.

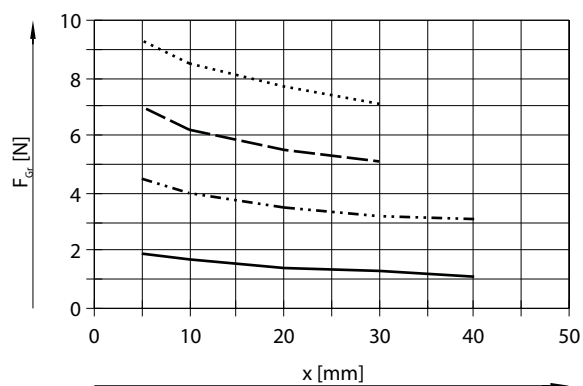


Note
Engineering software
Gripper selection
→ www.festo.com

External gripping (closing)

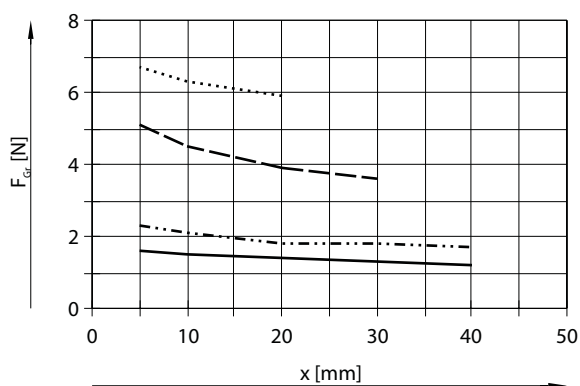
Double-acting

DHPC-6-A

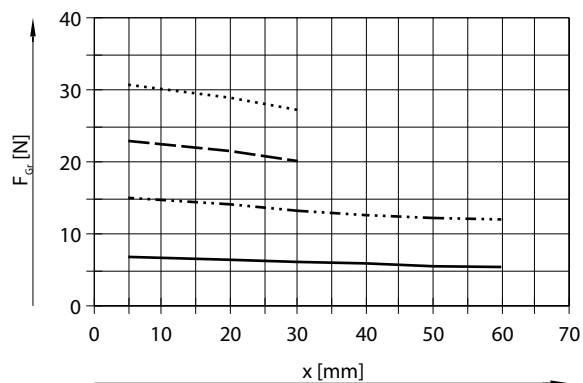


Single-acting

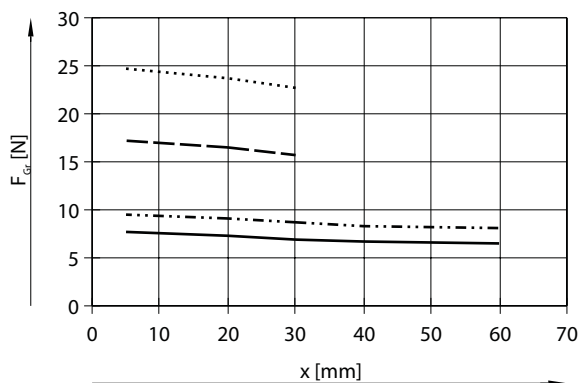
DHPC-6-A-NO



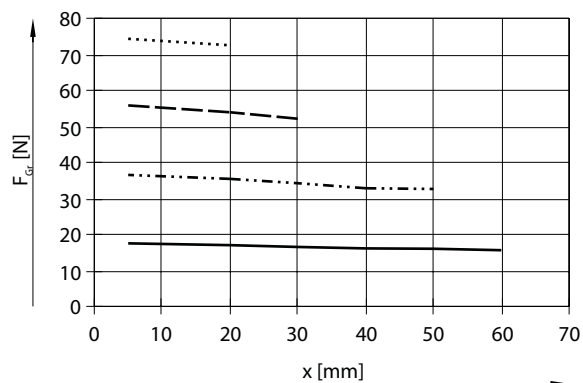
DHPC-10-A/DHPC-L-10-A



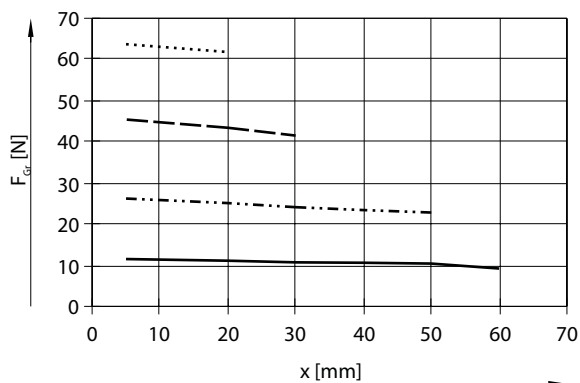
DHPC-10-A-NO/DHPC-L-10-A-NO



DHPC-16-A/DHPC-L-16-A



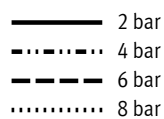
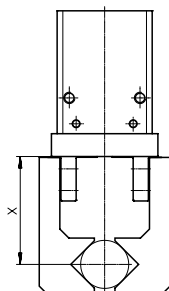
DHPC-16-A-NO/DHPC-L-16-A-NO



Data sheet

Gripping force F_{Gr} per gripper jaw as a function of the operating pressure and lever arm x

The gripping forces as a function of the operating pressure and lever arm can be determined from the following graphs.

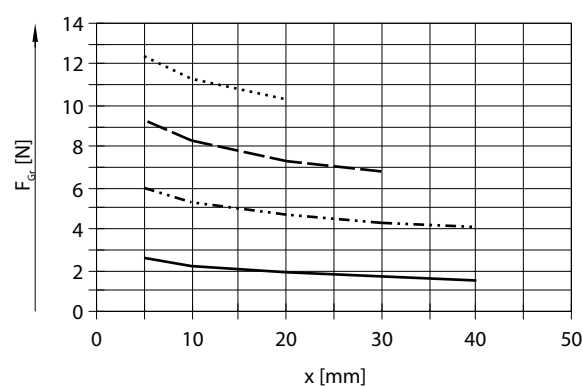


Note
Engineering software
Gripper selection
→ www.festo.com

Internal gripping (opening)

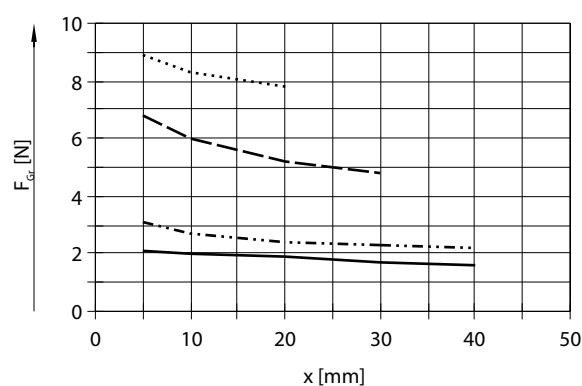
Double-acting

DHPC-6-A

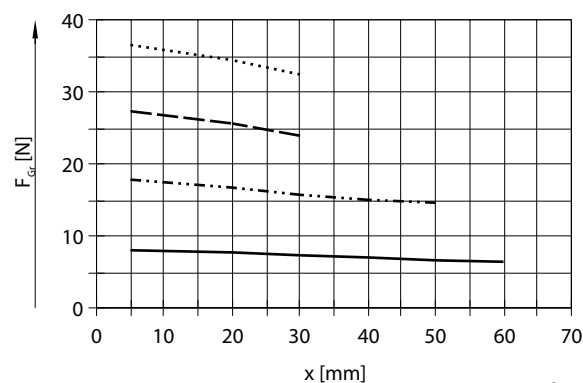


Single-acting

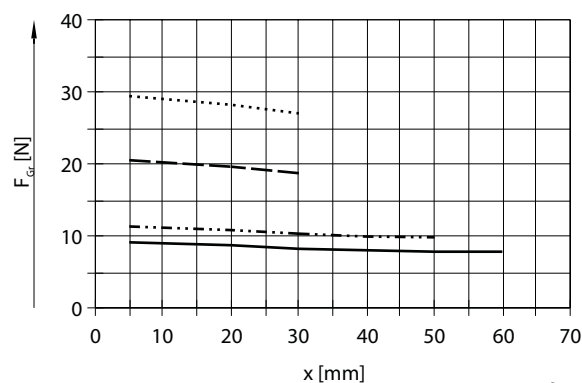
DHPC-6-A-NC



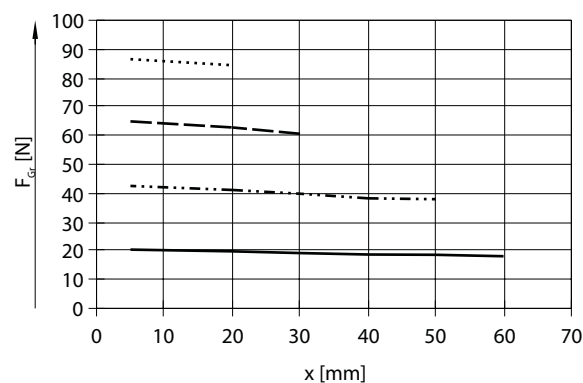
DHPC-10-A/DHPC-L-10-A



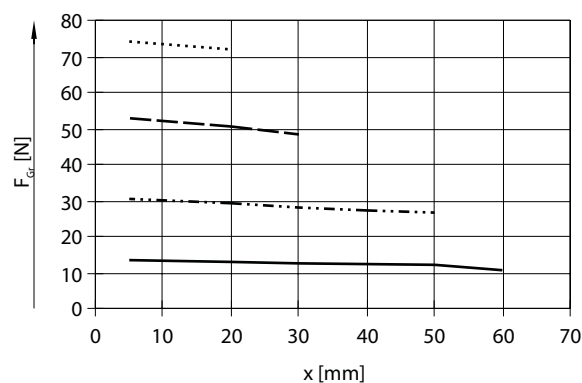
DHPC-10-A-NC/DHPC-L-10-A-NC



DHPC-16-A/DHPC-L-16-A



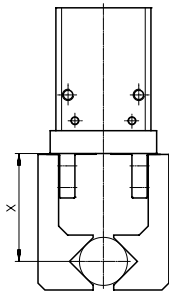
DHPC-16-A-NC/DHPC-L-16-A-NC



Data sheet

Gripping force F_{Gr} per gripper jaw as a function of the operating pressure and lever arm x

The gripping forces as a function of the operating pressure and lever arm can be determined from the following graphs.



- 2 bar
- 4 bar
- 6 bar
- 8 bar

Note

Engineering software

Gripper selection

→ www.festo.com

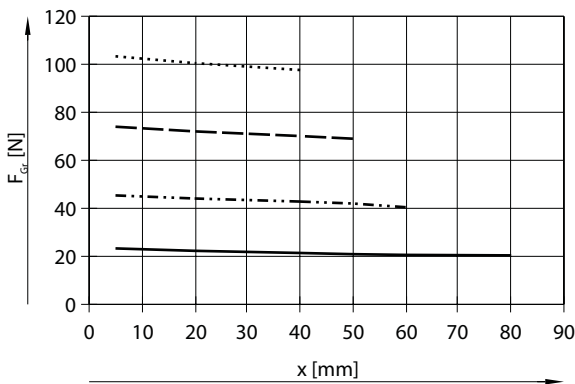
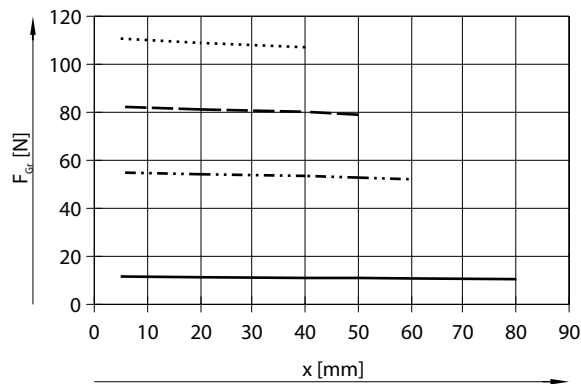
External gripping (closing)

Double-acting

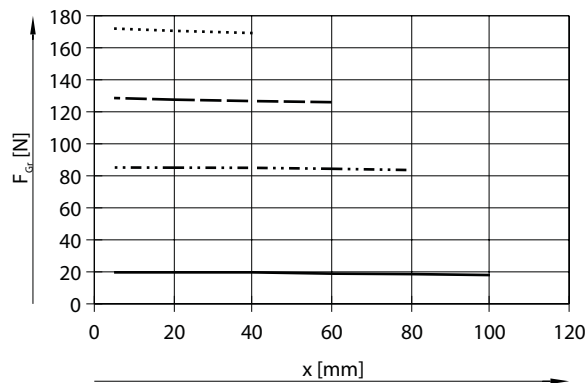
DHPC-20-A/DHPC-L-20-A

Single-acting

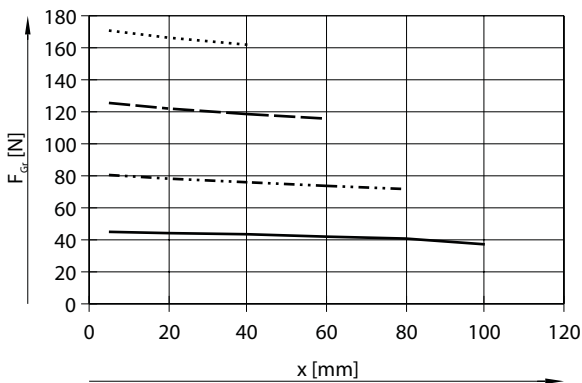
DHPC-20-A-NO/DHPC-L-20-A-NO



DHPC-25-A/DHPC-L-25-A



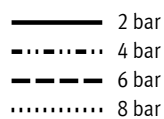
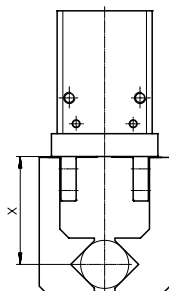
DHPC-25-A-NO/DHPC-L-25-A-NO



Data sheet

Gripping force F_{Gr} per gripper jaw as a function of the operating pressure and lever arm x

The gripping forces as a function of the operating pressure and lever arm can be determined from the following graphs.



Note

Engineering software

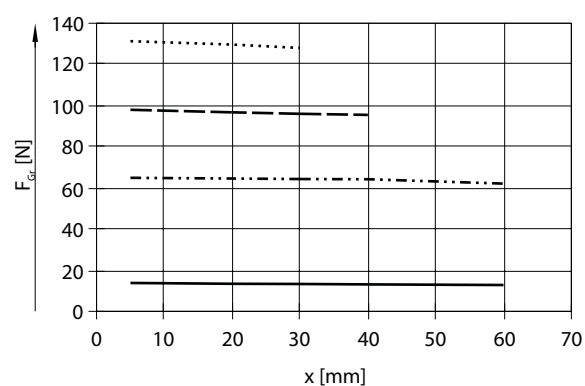
Gripper selection

→ www.festo.com

Internal gripping (opening)

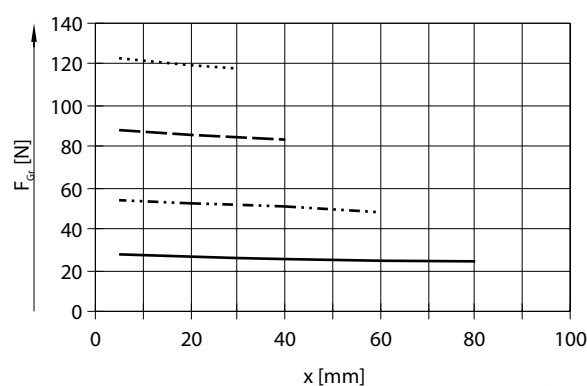
Double-acting

DHPC-20-A/DHPC-L-20-A

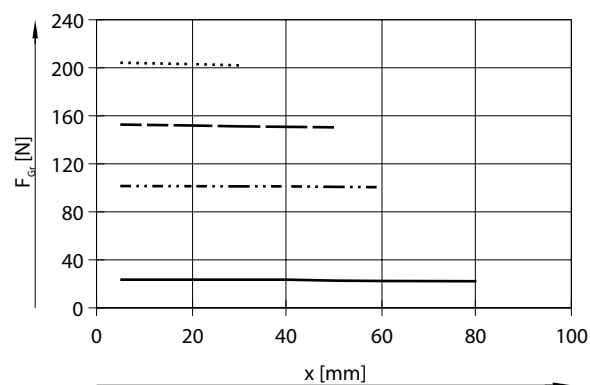


Single-acting

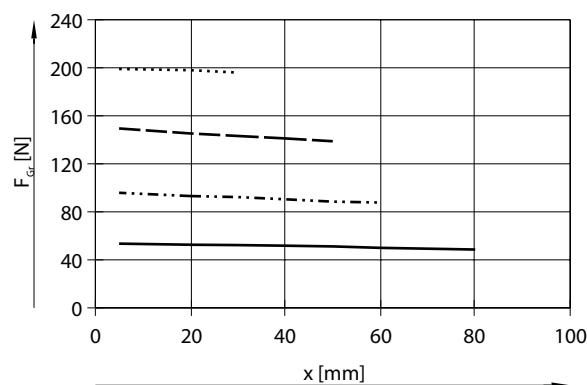
DHPC-20-A-NC/DHPC-L-20-A-NC



DHPC-25-A/DHPC-L-25-A



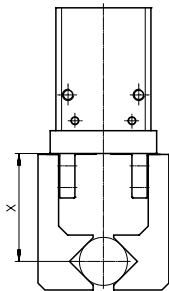
DHPC-25-A-NC/DHPC-L-25-A-NC



Data sheet

Gripping force F_{Gr} per gripper jaw as a function of the operating pressure and lever arm x

The gripping forces as a function of the operating pressure and lever arm can be determined from the following graphs.

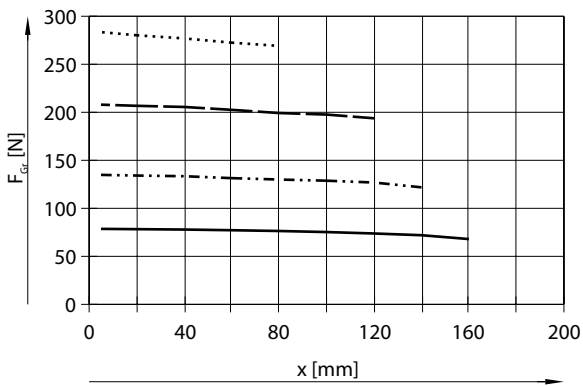
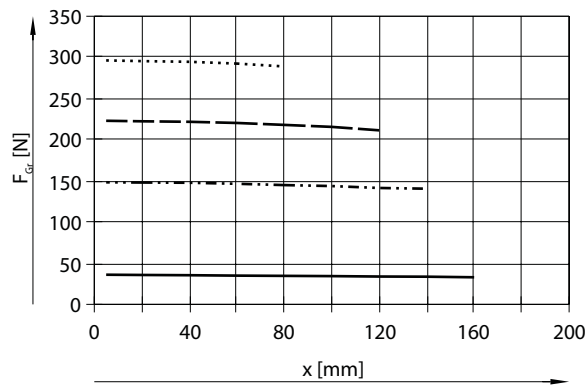


- 2 bar
- 4 bar
- 6 bar
- 8 bar

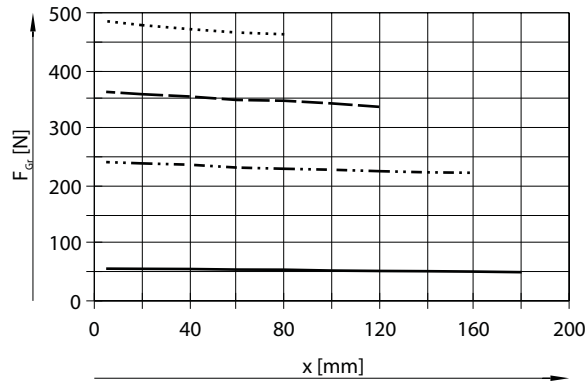
Note
Engineering software
Gripper selection
→ www.festo.com

External gripping (closing)
Double-acting
DHPG-32-A

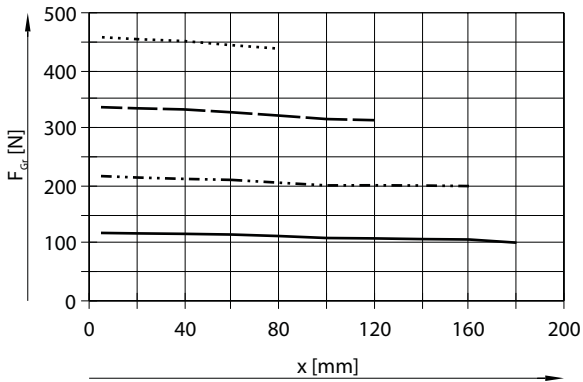
Single-acting
DHPG-32-A-NO



DHPG-40-A



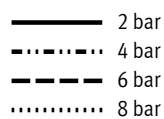
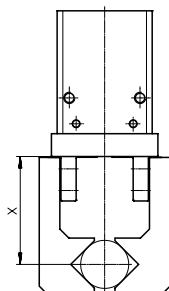
DHPG-40-A-NO



Data sheet

Gripping force F_{Gr} per gripper jaw as a function of the operating pressure and lever arm x

The gripping forces as a function of the operating pressure and lever arm can be determined from the following graphs.

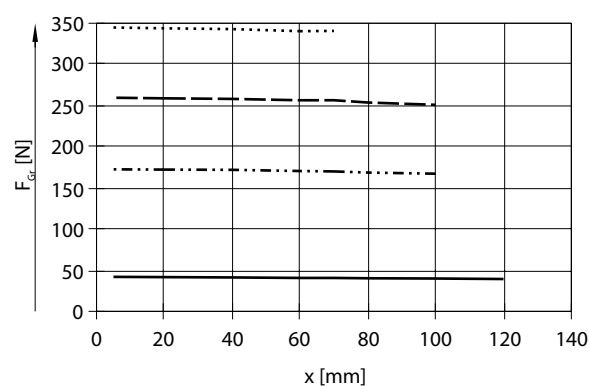


Note
Engineering software
Gripper selection
→ www.festo.com

Internal gripping (opening)

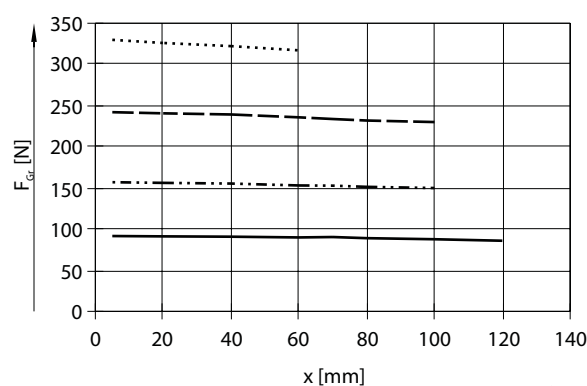
Double-acting

DHPC-32-A

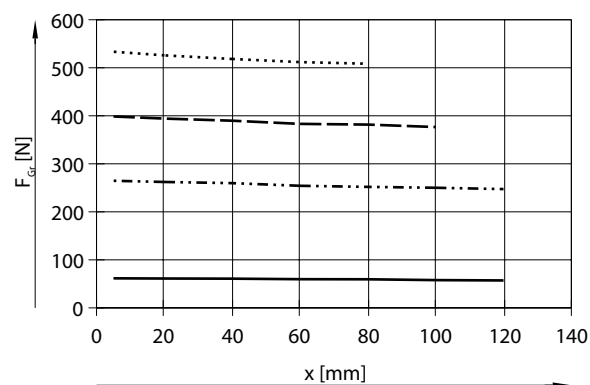


Single-acting

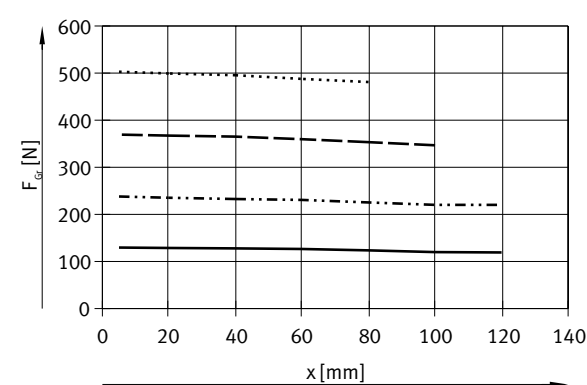
DHPC-32-A-NC



DHPC-40-A



DHPC-40-A-NC

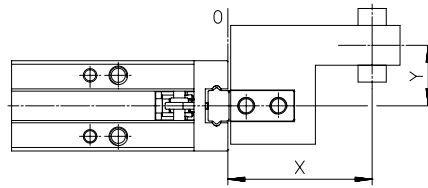


Data sheet

Gripping force F_{Gr} per gripper jaw at 6 bar as a function of lever arm x and eccentricity y

External and internal gripping (closing and opening)

The gripping forces at 6 bar as a function of eccentric application of force (distance from the zero co-ordinate line shown opposite to the pressure point at which the fingers grip the workpiece) and the maximum permissible off-centre point at which force is applied can be determined for the various sizes using the following graphs (→ page 19/21).

**Calculation example**

Assuming:

DHPC-16-A

Lever arm $x = 10$ mmEccentricity $y = 11$ mm

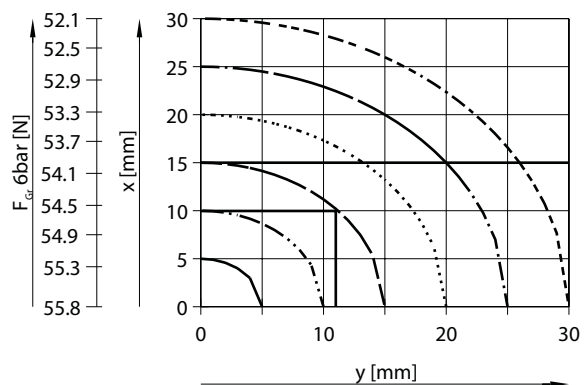
Required:

Gripping force at 6 bar

Procedure:

- Determine the intersection xy between the lever arm x and eccentricity y in the graph

- Draw an arc (with centre at origin) through intersection xy
 - Determine the intersection between the arc and X-axis
 - Read the gripping force
- Result:
gripping force $F_{Gr} = \text{approx. } 53.9$ N

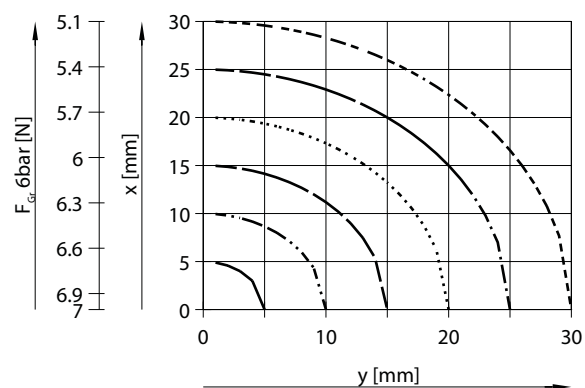


Data sheet

External gripping (closing)

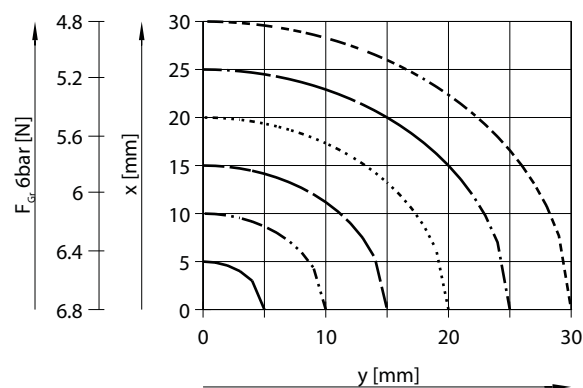
Double-acting

DHPC-6-A

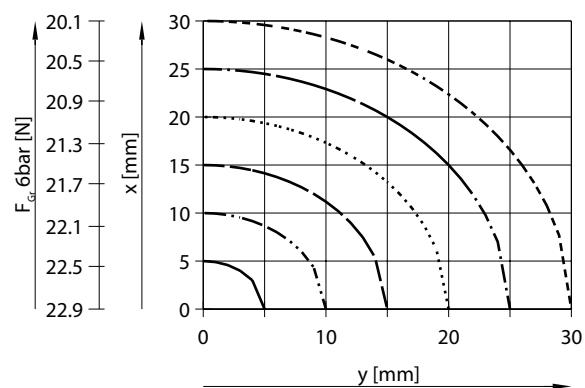


Single-acting

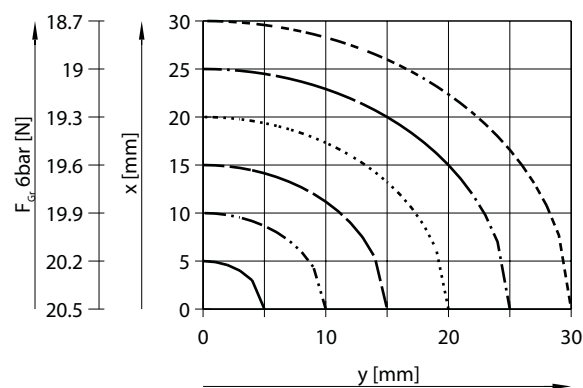
DHPC-6-A-NC



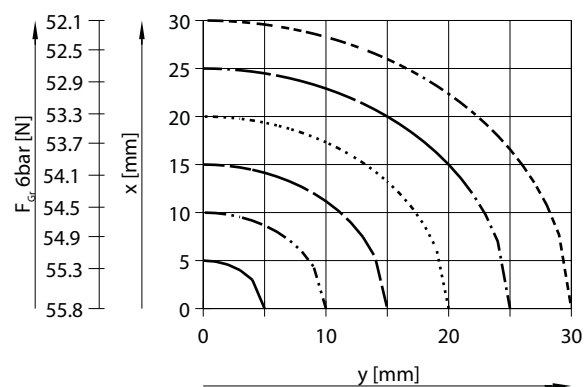
DHPC-10-A/DHPC-L-10-A



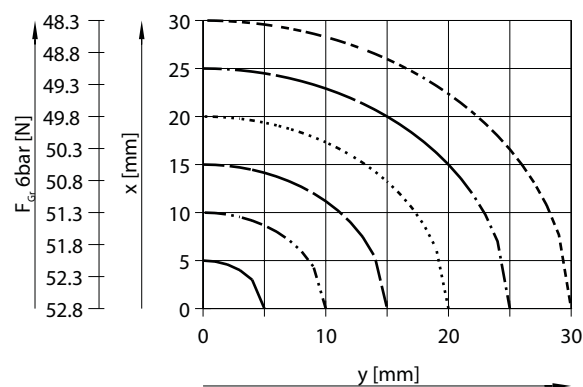
DHPC-10-A-NC/DHPC-L-10-A-NC



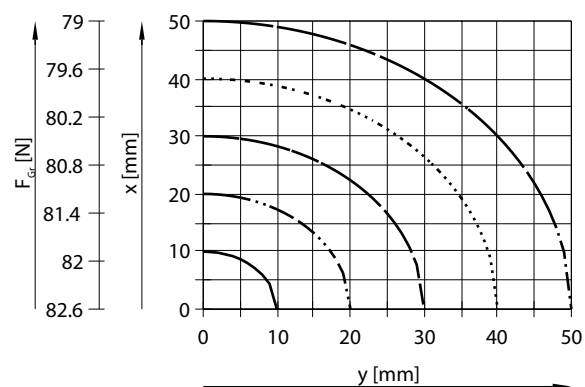
DHPC-16-A/DHPC-L-16-A



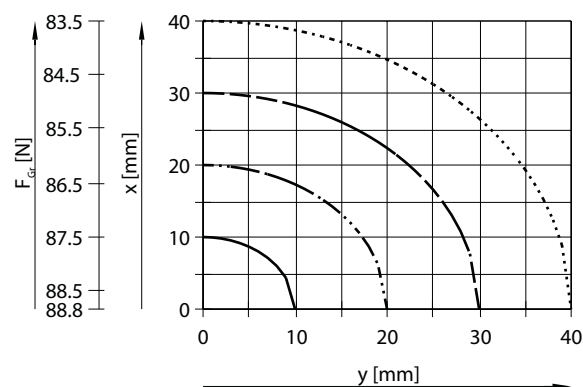
DHPC-16-A-NC/DHPC-L-16-A-NC



DHPC-20-A/DHPC-L-20-A

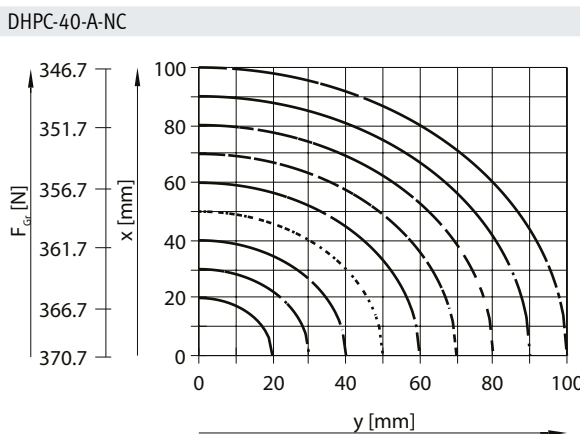
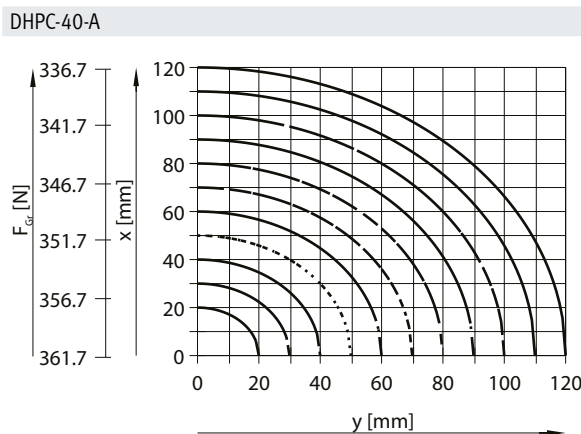
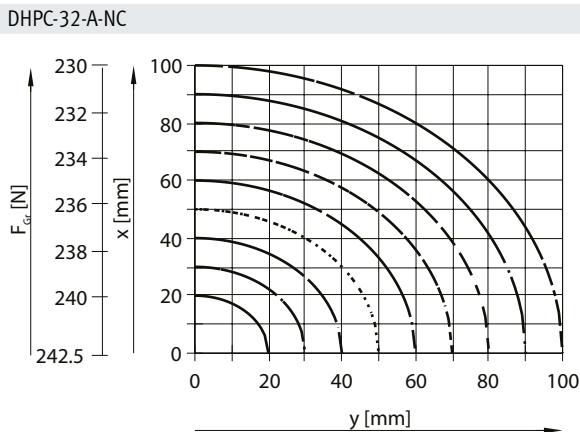
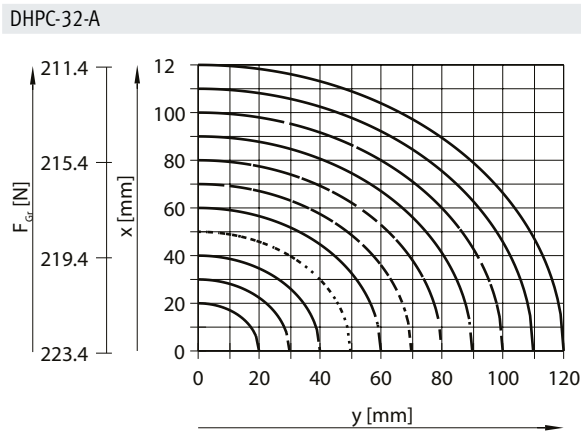
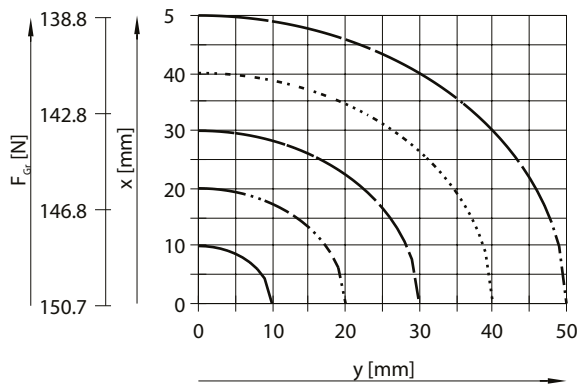
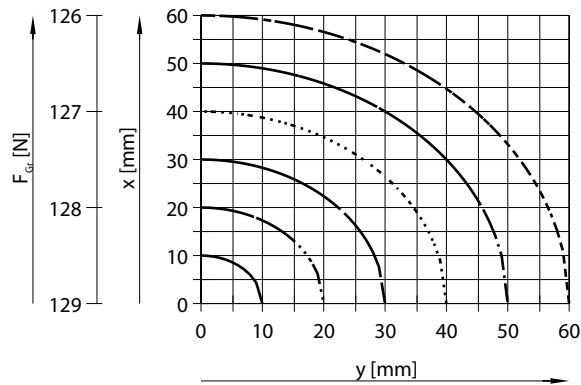


DHPC-20-A-NC/DHPC-L-20-A-NC



Data sheet

External gripping (closing)	Single-acting
Double-acting	
DHPC-25-A/DHPC-L-25-A	DHPC-25-A-NC/DHPC-L-25-A-NC

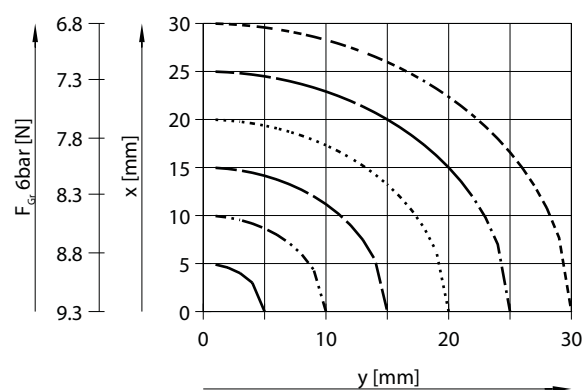


Data sheet

Internal gripping (opening)

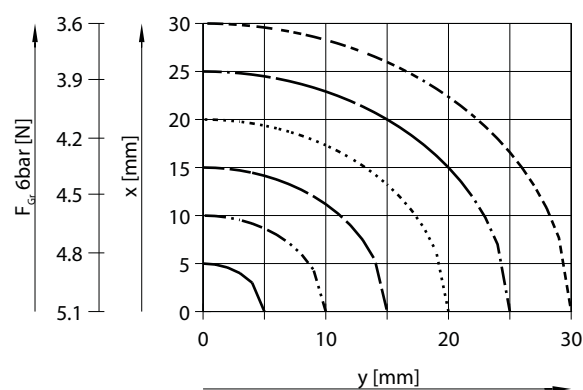
Double-acting

DHPC-6-A

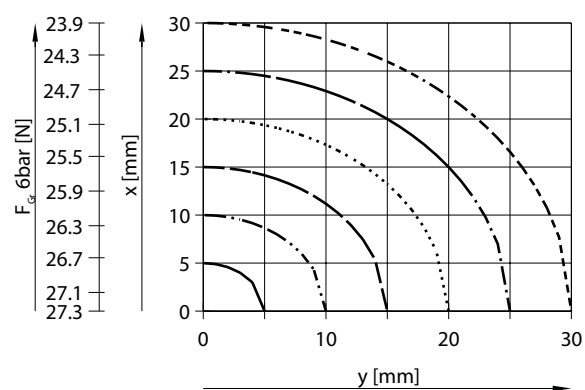


Single-acting

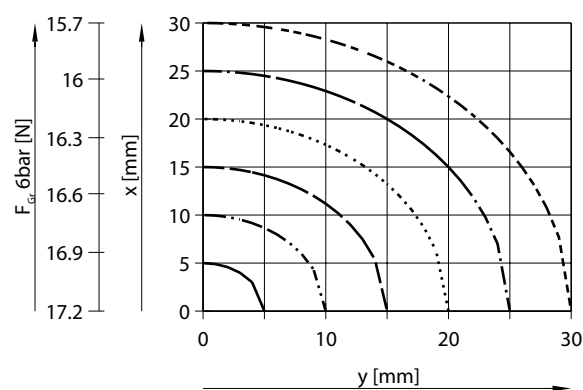
DHPC-6-A-NO



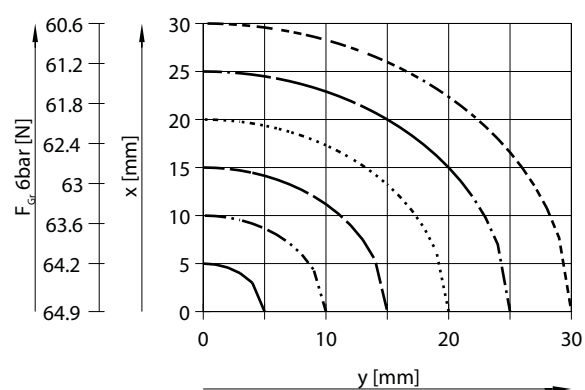
DHPC-10-A/DHPC-L-10-A



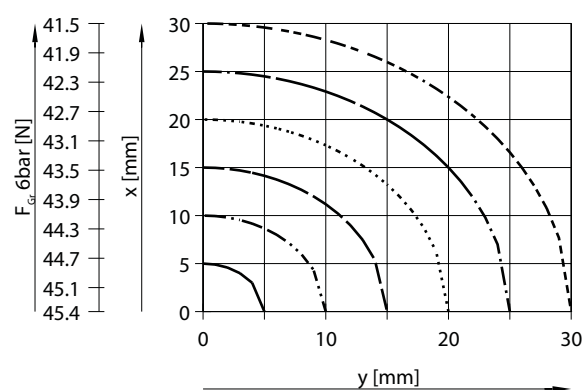
DHPC-10-A-NO/DHPC-L-10-A-NO



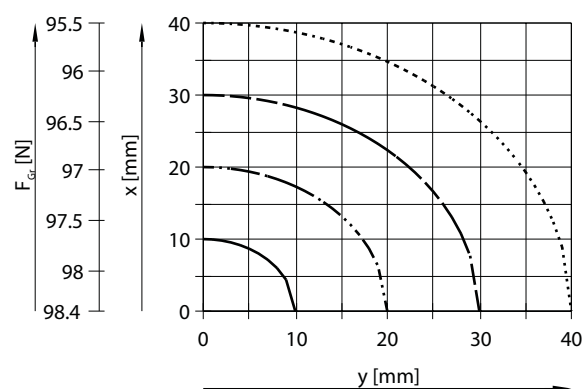
DHPC-16-A/DHPC-L-16-A



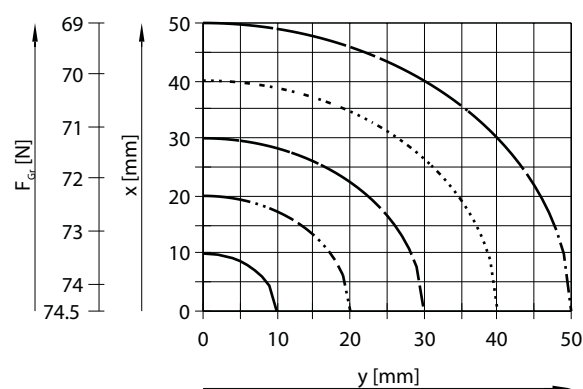
DHPC-16-A-NO/DHPC-L-16-A-NO



DHPC-20-A/DHPC-L-20-A



DHPC-20-A-NO/DHPC-L-20-A-NO

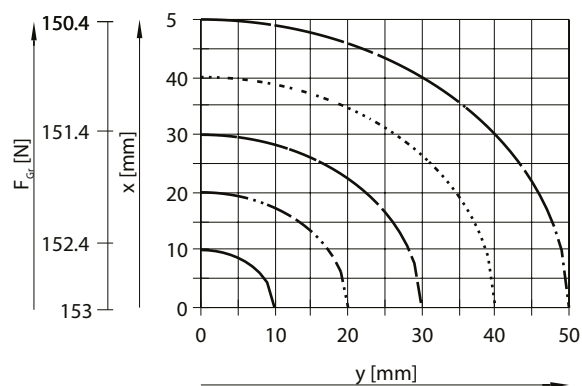


Data sheet

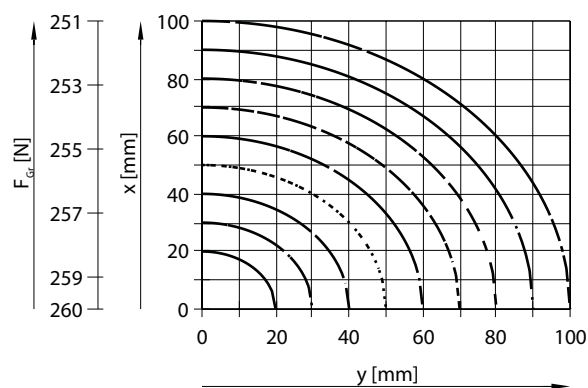
Internal gripping (opening)

Double-acting

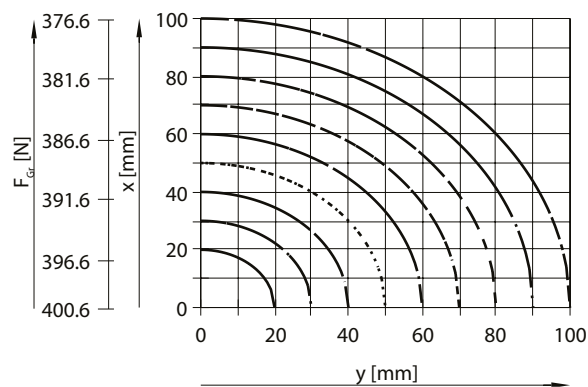
DHPC-25-A/DHPC-L-25-A



DHPC-32-A

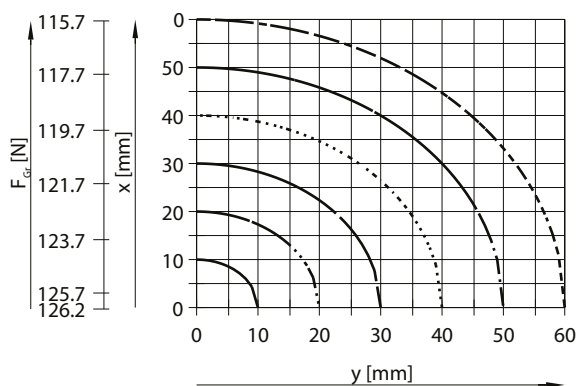


DHPC-40-A

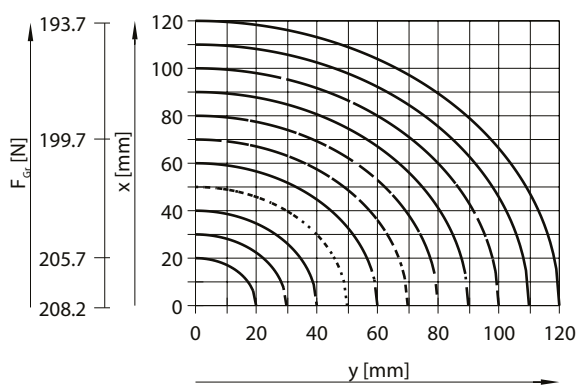


Single-acting

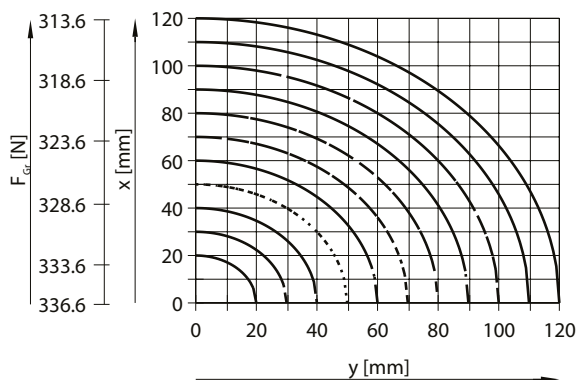
DHPC-25-A-NO/DHPC-L-25-A-NO



DHPC-32-A-NO



DHPC-40-A-NO

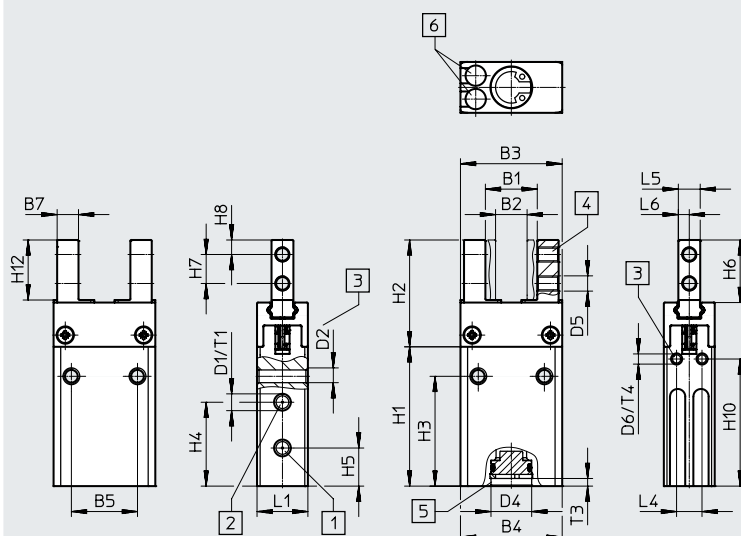


Data sheet

Dimensions

Download CAD data → www.festo.com

DHPC-6-...-S: Pneumatic port on the side



- [1] Pneumatic port, opening
- [2] Pneumatic port, closing
- [3] Threaded hole for mounting the gripper
- [4] Threaded hole for mounting the gripper fingers
- [5] Centring hole
- [6] C-slot for proximity switch

Size	B1	B2	B3	B4	B5	B7	D1	D2	D4 Ø	D5	D6	H1	H2	H3
[mm]			-0.2	+0.3		-0.1			H11					
DHPC-6-A-S	10.2	6.2	20	20	13	4.3	M3	M3	8	M3	M2	27.4	21	21.6
DHPC-6-A-NO/NC-S												32		24.8

Size	H4	H5	H6	H7	H8	H10	H12	L1	L4	L5	L6	T1	T3	T4
[mm]								+0.25		-0.05				
DHPC-6-A-S	16.5	7.5	12.3	5.7	2.9	25	11.8	10	5	4.3	2.2	4.5	1.5	4.5
DHPC-6-A-NO/NC-S						28								

Data sheet

Dimensions

Download CAD data → www.festo.com

DHPC-6-...-B: pneumatic port underneath

[1] Pneumatic port, opening
[2] Pneumatic port, closing
[8] Marking: pneumatic port, opening

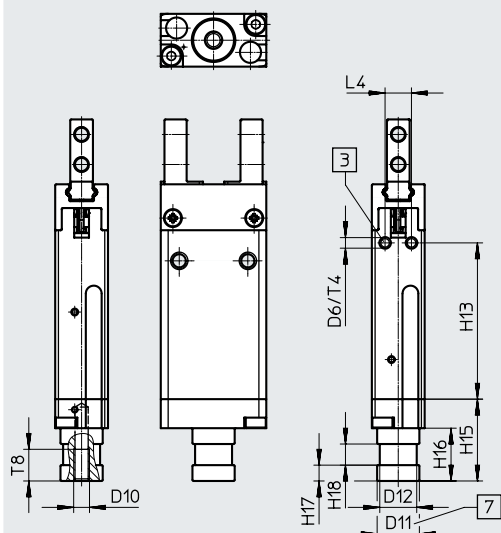
Size	B10	D6	D9	L9	T4	T7
[mm]						
DHPC-6-A-B	14	M2	M3	5	4.5	4
DHPC-6-A-NO/NC-B						

Data sheet

Dimensions

Download CAD data → www.festo.com

DHPC-6-...-Z: pneumatic port via mounting spigot



[3] Threaded hole for mounting the gripper

[7] Mounting spigot

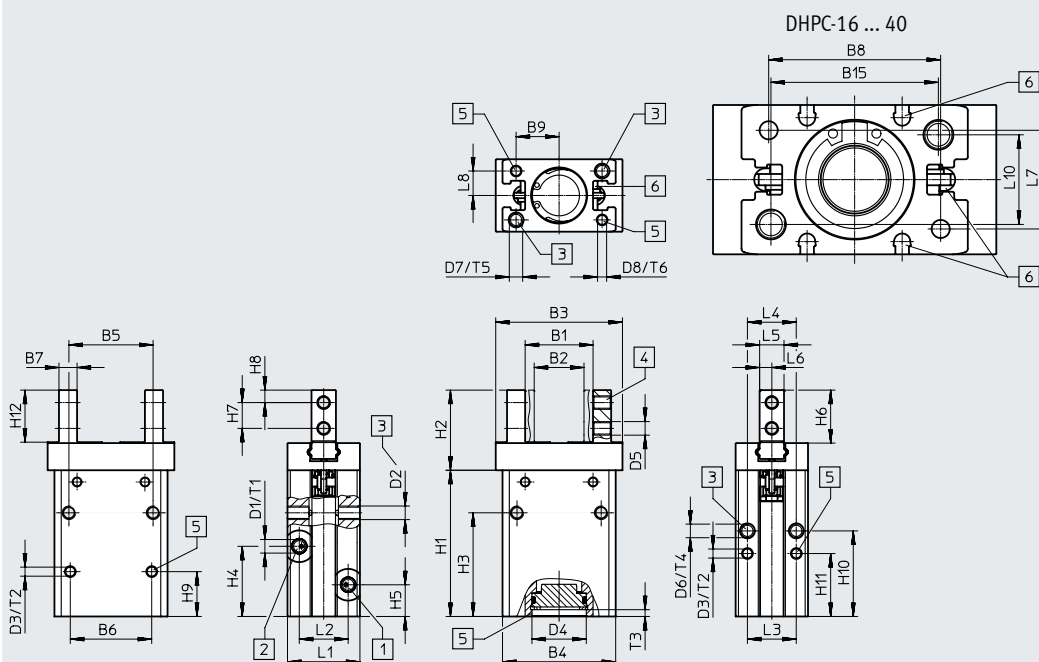
Size	D6	D10	D11 Ø f8	D12 Ø	H13	H15	H16	H17	H18	L4	T4	T8
[mm]												
DHPC-6-A-NO/NC-Z	M2	M5	8	7	28	15.5	10	3	4	5	4.5	6

Data sheet

Dimensions

Download CAD data → www.festo.com

DHPC-10...40-...S: Pneumatic port on the side



- [1] Pneumatic port, opening
- [2] Pneumatic port, closing
- [3] Threaded hole for mounting the gripper
- [4] Threaded hole for mounting the gripper fingers
- [5] Centring hole
- [6] DHPC-10: T-slot for proximity switch
DHPC-16 ... 40: C-slot and T-slot for proximity switch

Size	B1	B2	B3	B4	B5	B6	B7	B8	B9	B15	D1	D2	D3 Ø H9	D4 Ø	D5			
[mm]			-0.2	+0.3		±0.02	-0.1	±0.02	±0.02									
DHPC-10-A-S	15	11	28	25	18.6	18	4	19	9.5	19	M3	M3	2	12 H9	M3			
DHPC-L-10-A-S	19		34															
DHPC-10-A-NO/NC-S	15		28															
DHPC-L-10-A-NO/NC-S	19		34															
DHPC-16-A-S	19.8	13.8	37.4	32	27	24.4	5	25	12.5	25		M4	3	17 H8				
DHPC-L-16-A-S	25.8		46.4															
DHPC-16-A-NO/NC-S	19.8		37.4															
DHPC-L-16-A-NO/NC-S	25.8		46.4															
DHPC-20-A-S	25.6	15.6	50.2	40	31.6	28.4	8	31	15.5	30	M5	M5	4	21 H8	M4			
DHPC-L-20-A-S	33.6		62.2															
DHPC-20-A-NO/NC-S	25.6		50.2															
DHPC-L-20-A-NO/NC-S	33.6		62.2															
DHPC-25-A-S	32.6	18.6	62.6	50	37.4	33	10	38	19	37		M5	M6	26 H8	M5			
DHPC-L-25-A-S	40.6		74.6															
DHPC-25-A-NO/NC-S	32.6		62.6															
DHPC-L-25-A-NO/NC-S	40.6		74.6															
DHPC-32-A-S	47.9	25.9	97	60	40	46	12	46	23	46	M5		M6	5	33 H9	M6		
DHPC-32-A-NO/NC-S	47.9																	
DHPC-40-A-S	60.9	30.9	118	72	54	28	14	56	28	56				5	41 H9	M8		
DHPC-40-A-NO/NC-S	60.9																	

Data sheet

Size [mm]	D6	D7	D8 Ø H9	H1	H2	H3	H4	H5	H6	H7	H8	H9 +0.1	H10	H11 +0.1	H12
DHPC-10-A-S	M3	M3	2	32.3	17.7	22.9	15.5	7	11.7	5.7	2.75	9.9	18.9	13.9	11.5
DHPC-L-10-A-S				39.9		26	18.9					12	21	16	
DHPC-10-A-NO/NC-S				41.4		32						19	28	23	
DHPC-L-10-A-NO/NC-S				48.06		34.16	21					20.16	29.16	24.16	
DHPC-16-A-S	M4	M4	3	43.1	24.3	31.7	26.5	9	16.3	7	4	14	25.6	19	15
DHPC-L-16-A-S				46.8		34.3	30.2						29.3		
DHPC-16-A-NO/NC-S				43.1		31.7	26.5						25.6		
DHPC-L-16-A-NO/NC-S				51.1		38.6	33.4						18.3	33.6	23.3
DHPC-20-A-S	M5	M5	4	53.6	30.8	41	33	10.2	21.3	9	5	16	33	23	20
DHPC-L-20-A-S				59.2		44	36						36		
DHPC-20-A-NO/NC-S				53.6		41	33						33		
DHPC-L-20-A-NO/NC-S				62.9		47.7	40						19.7	39.7	26.7
DHPC-25-A-S	M6	M6	5	65.1	37.6	45.5	37.5	10.5	26.7	12	6	20	36	25	25
DHPC-L-25-A-S				70.1		49	41.7								
DHPC-25-A-NO/NC-S				65.1		45.5	37.5								
DHPC-L-25-A-NO/NC-S				74.1		53	45.2						24	40	29
DHPC-32-A-S	M8	M8	5	71	43.5	48	39	11	31.5	14	7	22	39	30	29.3
DHPC-L-32-A-S				80.4		57.4	41						31.4	49.4	40.4
DHPC-32-A-NO/NC-S				96.4		60.4	47.4						28	49	36
DHPC-L-40-A-NO/NC-S				95.7		69.7	49						37.3	58.3	45.3

Size [mm]	L1 +0.3	L2	L3 ±0.02	L4	L5 -0.05	L6	L7 ¹⁾ ±0.02	L8 ±0.02	L10	T1	T2	T3	T4	T5	T6
DHPC-10-A-S	16	10.8	10.8	10.8	5.4	2.7	10.8	5.4	10.8	4	3	1.5	4	4	3
DHPC-L-10-A-S															
DHPC-10-A-NO/NC-S															
DHPC-L-10-A-NO/NC-S															
DHPC-16-A-S	20	11.9	12	12	7	3.5	13	6.5	13	4.5	4	2	4.5	6	4
DHPC-L-16-A-S															
DHPC-16-A-NO/NC-S															
DHPC-L-16-A-NO/NC-S															
DHPC-20-A-S	26	15.6	16	14	8.3	4.2	17	8.5	16.6	6	4	3	8	10	4
DHPC-L-20-A-S															
DHPC-20-A-NO/NC-S															
DHPC-L-20-A-NO/NC-S															
DHPC-25-A-S	33	20.4	21	21	12	6	21.8	10.9	19.8	7.5	5	3.5	10	12	5
DHPC-L-25-A-S															
DHPC-25-A-NO/NC-S															
DHPC-L-25-A-NO/NC-S															
DHPC-32-A-S	40	24	26	26	15.2	7.6	26	13	26	8	5	4	13	17	5
DHPC-L-32-A-S															
DHPC-32-A-NO/NC-S	48	28	32	32	18	9	32	16	32	8	5	4	13	17	5
DHPC-L-40-A-NO/NC-S															

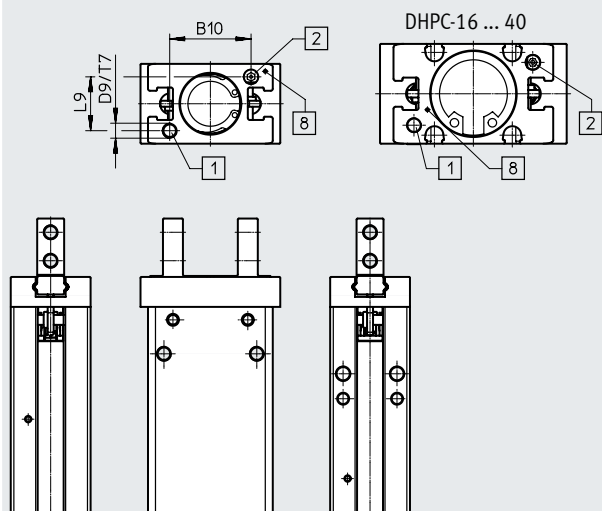
1) Dimension L7 refers exclusively to the distance between the centring hole [5] and the threaded hole for mounting the gripper [3]

Data sheet

Dimensions

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DHPC-10...40-...-B: pneumatic port underneath



- [1] Pneumatic port, opening
 [2] Pneumatic port, closing
 [8] Marking: close pneumatic port

Size	B10	D9	L9	T7		
[mm]						
DHPC-10-A-B	16.3	M3	10.8	4		
DHPC-L-10-A-B						
DHPC-10-A-NO/NC-B						
DHPC-L-10-A-NO/NC-B						
DHPC-16-A-B	23.8	M3	12.6	4.5		
DHPC-L-16-A-B						
DHPC-16-A-NO/NC-B						
DHPC-L-16-A-NO/NC-B						
DHPC-20-A-B	29	M5	16.6	7		
DHPC-L-20-A-B						
DHPC-20-A-NO/NC-B						
DHPC-L-20-A-NO/NC-B						
DHPC-25-A-B	38	M5	21	8		
DHPC-L-25-A-B						
DHPC-25-A-NO/NC-B						
DHPC-L-25-A-NO/NC-B						
DHPC-32-A-B	46	M5	26	8		
DHPC-32-A-NO/NC-B						
DHPC-40-A-B	56		M5		32	8
DHPC-40-A-NO/NC-B						

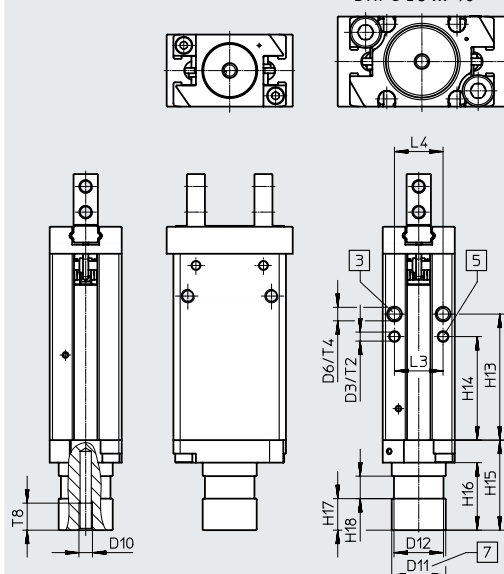
Data sheet

Dimensions

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DHPC-10...40-...-Z: pneumatic port via mounting spigot

DHPC-16 ... 40



[3] Threaded hole for mounting the gripper

[5] Centring hole

[7] Mounting spigot

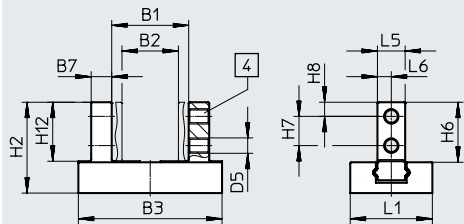
Size [mm]	D3 Ø H9	D6	D10	D11 Ø f8	D12 Ø	H13	H14	H15	H16	H17	H18	L3 ±0.02	L4	T2	T4	T8
DHPC-10-A-Z	2	M3	-	-	-	-	-	-	-	-	-	10.8	10.8	3	4	-
DHPC-L-10-A-Z			-	-	-	-	-	-	-	-	-					-
DHPC-10-A-NO/NC-Z			M5	12	11	28	23	20	15	7	5					6
DHPC-L-10-A-NO/NC-Z			M5	12	11	29.2	24.2	20	15	7	5					6
DHPC-16-A-Z	3	M4	-	-	-	-	-	-	-	-	-	12	12	3	4.5	-
DHPC-L-16-A-Z			-	-	-	-	-	-	-	-	-					-
DHPC-16-A-NO/NC-Z			M5	16	14	25.6	19	28	18	8	5					8
DHPC-L-16-A-NO/NC-Z			M5	16	14	33.6	23.3	28	18	8	5					8
DHPC-20-A-Z	4	M5	-	-	-	-	-	-	-	-	-	16	14	4	8	-
DHPC-L-20-A-Z			-	-	-	-	-	-	-	-	-					-
DHPC-20-A-NO/NC-Z			M5	20	18	33	23	30	20	10	5					10
DHPC-L-20-A-NO/NC-Z			M5	20	18	39.7	26.7	30	20	10	5					10
DHPC-25-A-Z	5	M6	-	-	-	-	-	-	-	-	-	21	21	4	10	-
DHPC-L-25-A-Z			-	-	-	-	-	-	-	-	-					-
DHPC-25-A-NO/NC-Z			M5	25	23	36	25	34	23	13	5					10
DHPC-L-25-A-NO/NC-Z			M5	25	23	40	29	34	23	13	5					10
DHPC-32-A-Z	5	M8	-	-	-	-	-	-	-	-	-	26	26	5	13	-
DHPC-L-32-A-Z			-	-	-	-	-	-	-	-	-					-
DHPC-32-A-NO/NC-Z			M5	25	23	49.4	40.4	35.4	23	13	5					10
DHPC-L-32-A-NO/NC-Z			M5	25	23	58.3	45.3	37.4	23	13	5					10
DHPC-40-A-Z	5	M8	-	-	-	-	-	-	-	-	-	32	32	5	13	-
DHPC-L-40-A-Z			-	-	-	-	-	-	-	-	-					-
DHPC-40-A-NO/NC-Z	5	M8	M5	32	30	58.3	45.3	37.4	23	13	5	32	32	5	13	10
DHPC-L-40-A-NO/NC-Z			M5	32	30	58.3	45.3	37.4	23	13	5					10

Data sheet

Dimensions – gripper finger mounting

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DHPC-...-A: standard



[4] Threaded hole for mounting the gripper fingers

Size	B1	B2	B3	B7	D5	H2	H6
[mm]				-0.1			
DHPC-6-A	10.2	6.2	20 -0.2	4.2	M3	21	12.3
DHPC-10-A	15	11	28 -0.2	4		17.7	11.7
DHPC-L-10-A	19		34 -0.2				
DHPC-16-A	19.8	13.8	37.4 -0.2	5		24.3	16.3
DHPC-L-16-A	25.8		46.4 -0.2				
DHPC-20-A	25.6	15.6	50.2 -0.2	8	M4	30.8	21.3
DHPC-L-20-A	33.6		62.2 -0.2				
DHPC-25-A	32.6	18.6	62.6	10	M5	37.6	26.6
DHPC-L-25-A	40.6		74.6				
DHPC-32-A	47.9	25.9	97	12	M6	43.5	31.5
DHPC-40-A	60.9	30.9	118	14	M8	54.5	39.5

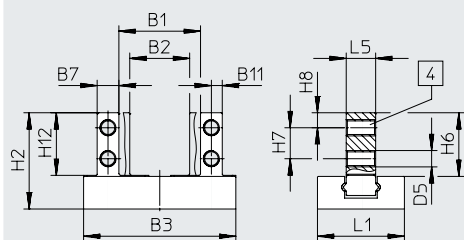
Size	H7	H8	H12	L1	L5	L6
[mm]					-0.05	
DHPC-6-A	5.7	2.9	11.8	10	4.3	2.2
DHPC-10-A		2.8	11.5	16	5.4	2.7
DHPC-L-10-A						
DHPC-16-A	7	4	15	20	7	3.5
DHPC-L-16-A						
DHPC-20-A	9	5	20	26	8.3	4.2
DHPC-L-20-A						
DHPC-25-A	12	6	37.6	33	12	6
DHPC-L-25-A						
DHPC-32-A	14	7	43.5	40	15.2	7.6
DHPC-40-A	17	9	54.5	48	18	9

Data sheet

Dimensions – gripper finger mounting

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DHPC-...-A-...-1: mounting holes on the side



[4] Threaded hole for mounting the gripper fingers

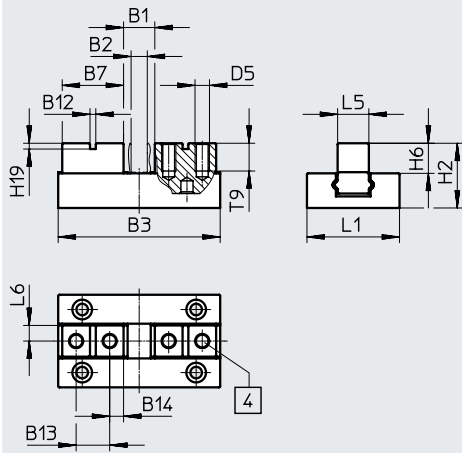
Size	B1	B2	B3	B7	B11	D5	H2
[mm]				-0.1			
DHPC-6-A-...-1	10.2	6.2	20 -0.2	4.2	2.1	M3	21
DHPC-10-A-...-1	15	11	28 -0.2	4	2		17.7
DHPC-L-10-A-...-1	19		34 -0.2				
DHPC-16-A-...-1	19.8	13.8	37.4 -0.2	5	2.5		24.3
DHPC-L-16-A-...-1	25.8		46.4 -0.2				
DHPC-20-A-...-1	25.6	15.6	50.2 -0.2	8	4	M4	30.8
DHPC-L-20-A-...-1	33.6		62.2 -0.2				
DHPC-25-A-...-1	32.6	18.6	62.6	10	5	M5	37.6
DHPC-L-25-A-...-1	40.6		74.6				
DHPC-32-A-...-1	47.9	25.9	97	12	6	M6	43.5
DHPC-40-A-...-1	60.9	30.9	118	14	7	M8	54.5

Size	H6	H7	H8	H12	L1	L5
[mm]						-0.05
DHPC-6-A-...-1	12.3	5.7	2.9	11.8	10	4.3
DHPC-10-A-...-1	11.7		2.8	11.5	16	5.4
DHPC-L-10-A-...-1						
DHPC-16-A-...-1	16.3	7	4	15	20	7
DHPC-L-16-A-...-1						
DHPC-20-A-1	21.3	9	5	20	26	8.3
DHPC-L-20-A-1						
DHPC-25-A-1	26.6	12	6	37.6	33	12
DHPC-L-25-A-1						
DHPC-32-A-1	31.5	14	7	43.5	40	15.2
DHPC-40-A-1	39.5	17	9	54.5	48	18

Data sheet

Dimensions – gripper finger mountingDownload CAD data → www.festo.com

DHPC-...-A-...-2: flat gripper fingers



[4] Threaded hole for mounting the gripper fingers

Data sheet

Size	B1	B2	B3	B7	B12	B13	B14	D5
[mm]				-0.1	H9			
DHPC-6-A-...-2	5.4	1.4	20 -0.2	6.6	–	3.8	1.4	M2
DHPC-10-A-...-2			28 -0.2	10.6	2	6	2.3	M2.5
DHPC-L-10-A-...-2	9.4		34 -0.2	11.6		7		
DHPC-16-A-...-2	7.4		37.4 -0.2	14.3	2.5	8	3.2	M3
DHPC-L-16-A-...-2	13.4		46.4 -0.2	15.8	3	9	3.4	
DHPC-20-A-...-2	12	2	50.2 -0.2	18.1		10.1	4	M4
DHPC-L-20-A-...-2	20		62.2 -0.2	20.1		12.1	4	
DHPC-25-A-...-2	16		62.6	22.3	4	11.9	5.2	M5
DHPC-L-25-A-...-2	24		74.6	24.3		13.1	5.6	
DHPC-32-A-...-2	24.9	2.9	97	34.6	5	20	7.3	M6
DHPC-40-A-...-2	32.9		118	41.1	6	23.1	9	M8

Size	H2	H6	H19	L1	L5	L6	T9
[mm]					-0.05		
DHPC-6-A-...-2	15.1	6.4	–	10	4.3	2.2	4
DHPC-10-A-...-2	11.2	5.2	2	16	5.4	2.7	5
DHPC-L-10-A-...-2							
DHPC-16-A-...-2	16.3	8.3	2.5	20	7	3.5	6
DHPC-L-16-A-...-2			3				
DHPC-20-A-...-2	20	10.5	3	26	8.3	4.2	7
DHPC-L-20-A-...-2							
DHPC-25-A-...-2	24.1	13.1	4	33	12	6	10
DHPC-L-25-A-...-2							
DHPC-32-A-...-2	24	12	5	40	15.2	7.6	12
DHPC-40-A-...-2	39.5	24.5	6	48	18	9	16

Data sheet

Ordering data - pneumatic port underneath						
Size [mm]	Double-acting		Single-acting with gripping force retention		Closing	
	Part no.	Type	Part no.	Type	Part no.	Type
6	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116738	DHPC-6-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116739	DHPC-6-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116740	DHPC-6-A-B-2	-	-	-	-
10	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116756	DHPC-10-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116757	DHPC-10-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116758	DHPC-10-A-B-2	-	-	-	-
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116774	DHPC-L-10-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116775	DHPC-L-10-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116776	DHPC-L-10-A-B-2	-	-	-	-
16	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116788	DHPC-16-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116789	DHPC-16-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116790	DHPC-16-A-B-2	-	-	-	-
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116806	DHPC-L-16-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116807	DHPC-L-16-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116808	DHPC-L-16-A-B-2	-	-	-	-
20	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116820	DHPC-20-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116821	DHPC-20-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116822	DHPC-20-A-B-2	-	-	-	-
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116838	DHPC-L-20-A-B	-	-	-	-
	Type of mounting of gripper fingers: mounting holes on the side					
	8116839	DHPC-L-20-A-B-1	-	-	-	-
	Type of mounting: flat gripper fingers					
	8116840	DHPC-L-20-A-B-2	-	-	-	-

Data sheet

Ordering data - pneumatic port underneath						
Size	Double-acting		Single-acting with gripping force retention			
[mm]	Part no.	Type	Opening Part no.	Type	Closing Part no.	Type
25	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116852	DHPC-25-A-B	-		-	
	Type of mounting of gripper fingers: mounting holes on the side					
	8116853	DHPC-25-A-B-1	-		-	
	Type of mounting: flat gripper fingers					
	8116854	DHPC-25-A-B-2	-		-	
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116870	DHPC-L-25-A-B	-		-	
	Type of mounting of gripper fingers: mounting holes on the side					
	8116871	DHPC-L-25-A-B-1	-		-	
	Type of mounting: flat gripper fingers					
	8116872	DHPC-L-25-A-B-2	-		-	
32	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116884	DHPC-32-A-B	-		-	
	Type of mounting of gripper fingers: mounting holes on the side					
	8116885	DHPC-32-A-B-1	-		-	
	Type of mounting: flat gripper fingers					
	8116886	DHPC-32-A-B-2	-		-	
40	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116897	DHPC-40-A-B	-		-	
	Type of mounting of gripper fingers: mounting holes on the side					
	8116898	DHPC-40-A-B-1	-		-	
	Type of mounting: flat gripper fingers					
8116899	DHPC-40-A-B-2	-		-		

Data sheet

Ordering data - Pneumatic port on the side						
Size [mm]	Double-acting		Single-acting with gripping force retention		Closing	
	Part no.	Type	Part no.	Type	Part no.	Type
6	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116735	DHPC-6-A-S	8116741	DHPC-6-A-NO-S	8116747	DHPC-6-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116736	DHPC-6-A-S-1	8116742	DHPC-6-A-NO-S-1	8116748	DHPC-6-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116737	DHPC-6-A-S-2	8116743	DHPC-6-A-NO-S-2	8116749	DHPC-6-A-NC-S-2
10	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116753	DHPC-10-A-S	8116759	DHPC-10-A-NO-S	8116765	DHPC-10-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116754	DHPC-10-A-S-1	8116760	DHPC-10-A-NO-S-1	8116766	DHPC-10-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116755	DHPC-10-A-S-2	8116761	DHPC-10-A-NO-S-2	8116767	DHPC-10-A-NC-S-2
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116771	DHPC-L-10-A-S	8116777	DHPC-L-10-A-NO-S	8116780	DHPC-L-10-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116772	DHPC-L-10-A-S-1	8116778	DHPC-L-10-A-NO-S-1	8116781	DHPC-L-10-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116773	DHPC-L-10-A-S-2	8116779	DHPC-L-10-A-NO-S-2	8116782	DHPC-L-10-A-NC-S-2
16	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116785	DHPC-16-A-S	8116791	DHPC-16-A-NO-S	8116797	DHPC-16-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116786	DHPC-16-A-S-1	8116792	DHPC-16-A-NO-S-1	8116798	DHPC-16-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116787	DHPC-16-A-S-2	8116793	DHPC-16-A-NO-S-2	8116799	DHPC-16-A-NC-S-2
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116803	DHPC-L-16-A-S	8116809	DHPC-L-16-A-NO-S	8116812	DHPC-L-16-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116804	DHPC-L-16-A-S-1	8116810	DHPC-L-16-A-NO-S-1	8116813	DHPC-L-16-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116805	DHPC-L-16-A-S-2	8116811	DHPC-L-16-A-NO-S-2	8116814	DHPC-L-16-A-NC-S-2
20	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116817	DHPC-20-A-S	8116823	DHPC-20-A-NO-S	8116829	DHPC-20-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116818	DHPC-20-A-S-1	8116824	DHPC-20-A-NO-S-1	8116830	DHPC-20-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116819	DHPC-20-A-S-2	8116825	DHPC-20-A-NO-S-2	8116831	DHPC-20-A-NC-S-2
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116835	DHPC-L-20-A-S	8116841	DHPC-L-20-A-NO-S	8116844	DHPC-L-20-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116836	DHPC-L-20-A-S-1	8116842	DHPC-L-20-A-NO-S-1	8116845	DHPC-L-20-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116837	DHPC-L-20-A-S-2	8116843	DHPC-L-20-A-NO-S-2	8116846	DHPC-L-20-A-NC-S-2

Data sheet

Ordering data - Pneumatic port on the side						
Size [mm]	Double-acting		Single-acting with gripping force retention		Closing	
	Part no.	Type	Part no.	Type	Part no.	Type
25	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116849	DHPC-25-A-S	8116855	DHPC-25-A-NO-S	8116861	DHPC-25-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116850	DHPC-25-A-S-1	8116856	DHPC-25-A-NO-S-1	8116862	DHPC-25-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116851	DHPC-25-A-S-2	8116857	DHPC-25-A-NO-S-2	8116863	DHPC-25-A-NC-S-2
	Long stroke gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116867	DHPC-L-25-A-S	8116873	DHPC-L-25-A-NO-S	8116876	DHPC-L-25-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116868	DHPC-L-25-A-S-1	8116874	DHPC-L-25-A-NO-S-1	8116877	DHPC-L-25-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116869	DHPC-L-25-A-S-2	8116875	DHPC-L-25-A-NO-S-2	8116878	DHPC-L-25-A-NC-S-2
32	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116881	DHPC-32-A-S	8116887	DHPC-32-A-NO-S	8116890	DHPC-32-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116882	DHPC-32-A-S-1	8116888	DHPC-32-A-NO-S-1	8116891	DHPC-32-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116883	DHPC-32-A-S-2	8116889	DHPC-32-A-NO-S-2	8116892	DHPC-32-A-NC-S-2
40	Standard gripper characteristic					
	Type of mounting of gripper fingers: standard					
	8116894	DHPC-40-A-S	8116900	DHPC-40-A-NO-S	8116903	DHPC-40-A-NC-S
	Type of mounting of gripper fingers: mounting holes on the side					
	8116895	DHPC-40-A-S-1	8116901	DHPC-40-A-NO-S-1	8116904	DHPC-40-A-NC-S-1
	Type of mounting: flat gripper fingers					
	8116896	DHPC-40-A-S-2	8116902	DHPC-40-A-NO-S-2	8116905	DHPC-40-A-NC-S-2

Data sheet

Ordering data – Pneumatic port via mounting spigot							
Size	Double-acting		Single-acting with gripping force retention		Closing		
[mm]	Part no.	Type	Part no.	Type	Part no.	Type	
6	Standard gripper characteristic						
	Type of mounting of gripper fingers: standard						
	–	8116744	DHPC-6-A-NO-Z		8116750	DHPC-6-A-NC-Z	
	Type of mounting of gripper fingers: mounting holes on the side						
	–	8116745	DHPC-6-A-NO-Z-1		8116751	DHPC-6-A-NC-Z-1	
	Type of mounting: flat gripper fingers						
	–	8116746	DHPC-6-A-NO-Z-2		8116752	DHPC-6-A-NC-Z-2	
	Standard gripper characteristic						
	Type of mounting of gripper fingers: standard						
10	–	8116762	DHPC-10-A-NO-Z		8116768	DHPC-10-A-NC-Z	
	Type of mounting of gripper fingers: mounting holes on the side						
	–	8116763	DHPC-10-A-NO-Z-1		8116769	DHPC-10-A-NC-Z-1	
	Type of mounting: flat gripper fingers						
	–	8116764	DHPC-10-A-NO-Z-2		8116770	DHPC-10-A-NC-Z-2	
16	Standard gripper characteristic						
	Type of mounting of gripper fingers: standard						
	–	8116794	DHPC-16-A-NO-Z		8116800	DHPC-16-A-NC-Z	
	Type of mounting of gripper fingers: mounting holes on the side						
	–	8116795	DHPC-16-A-NO-Z-1		8116801	DHPC-16-A-NC-Z-1	
	Type of mounting: flat gripper fingers						
	–	8116796	DHPC-16-A-NO-Z-2		8116802	DHPC-16-A-NC-Z-2	
	20	Standard gripper characteristic					
		Type of mounting of gripper fingers: standard					
–		8116826	DHPC-20-A-NO-Z		8116832	DHPC-6-A-NC-Z	
Type of mounting of gripper fingers: mounting holes on the side							
–		8116827	DHPC-20-A-NO-Z-1		8116833	DHPC-6-A-NC-Z-1	
	Type of mounting: flat gripper fingers						
	–	8116828	DHPC-20-A-NO-Z-2		8116834	DHPC-6-A-NC-Z-2	
	25	Standard gripper characteristic					
		Type of mounting of gripper fingers: standard					
–		8116858	DHPC-25-A-NO-Z		8116864	DHPC-6-A-NC-Z	
Type of mounting of gripper fingers: mounting holes on the side							
–		8116859	DHPC-25-A-NO-Z-1		8116865	DHPC-6-A-NC-Z-1	
	Type of mounting: flat gripper fingers						
	–	8116860	DHPC-25-A-NO-Z-2		8116866	DHPC-6-A-NC-Z-2	

Ordering data – Modular product system

Ordering table										
Size	6	10	16	20	25	32	40	Conditions	Code	Enter code
Module no.	8116728	8116729	8116730	8116731	8116732	8116733	8116734			
Design	Parallel grippers								DHPC	DHPC
Gripper characteristic	Standard									
	–	Long stroke				–			-L	
Size [mm]	6	10	16	20	25	32	40		-...	
Position sensing	Via proximity switch								-A	-A
Gripping force retention	None									
	Closing							[1]	-NC	
	Opening							[1]	-NO	
Pneumatic connection	Underneath								-B	
	On the side								-S	
	Via mounting spigot								-Z	
Dust protection	None									
	–	Protective dust cap				–			-C	
Type of mounting for gripper finger	Standard									
	Mounting holes on the side								-1	
	Flat gripper fingers							[2]	-2	

[1] NC, NO Mandatory specification with pneumatic port via mounting spigot Z

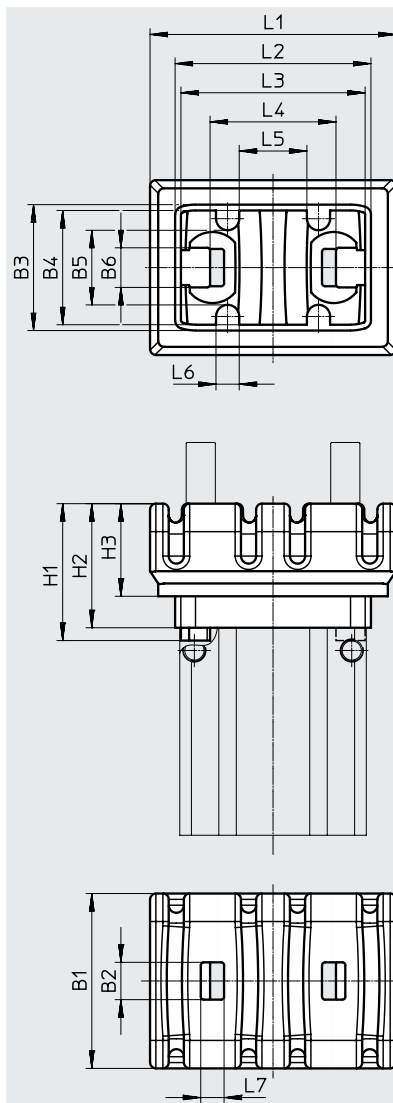
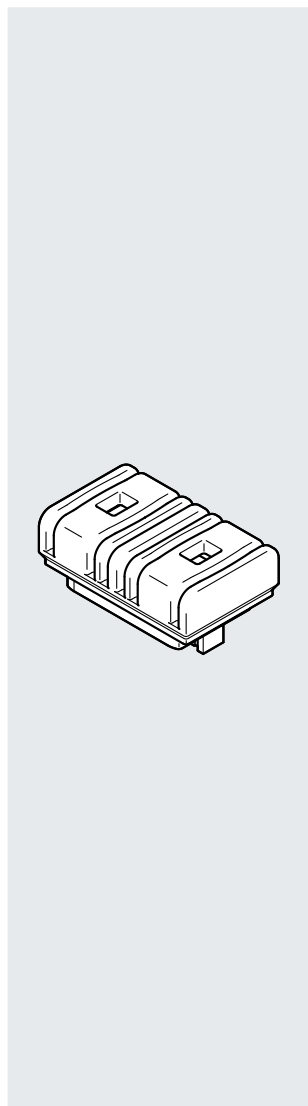
[2] 2 Not with dust protection via protective dust cap C

Accessories

Protective dust cap
DHAS-DP-B23-...-N

Material: NBR

RoHS-compliant



Dimensions and ordering data

Dimensions and ordering data

Size	B1	B2	B3	B4	B5	B6	H1	H2	H3	L1	L2	L3	L4	L5	L6	L7	Weight [g]	Part no.	Type
10	22	5	17.2	15.6	-	6.8	17	15.5	10.5	33.4	26.2	24.6	14.8	-	-	3.2	2.7	8116783	DHAS-DP-B23-10-N
	19.8						17.3	11.3	37.6	3.7							8116784	DHAS-DP-B23-10-L-N	
16	30	6.4	21.6	19.6	12.8		23.5	21.3	15.9	42.2	33.6	31.6	21.6	11.6	4	4	6.7	8116815	DHAS-DP-B23-16-N
							24.6	21.9		52						8.1	8116816	DHAS-DP-B23-16-L-N	
20	36	8	27.4	25.4	18.4		26.9	23.7	17.7	55.2	41.4	39.4	22	12.8		6.8	10	8116847	DHAS-DP-B23-20-N
							27.9			67.2							12.1	8116848	DHAS-DP-B23-20-L-N
25	43	11.5	34.6	32.6	23.4		35	27	20	67.8	51.6	49.6	32	16.8	4.2	8.6	16.6	8116879	DHAS-DP-B23-25-N
							36.5			79.5							17.6	8116880	DHAS-DP-B23-25-L-N

Accessories

Proximity switches for size 6, 16 ... 40

Ordering data – Proximity switch for C-slot, magneto-resistive							Data sheets → Internet: smt
	Type of mounting	Electrical connection, outlet direction of connection	Switching output	Cable length [m]	Part no.	Type	
N/O							
	Inserted in the slot from above	Cable, 3-wire, in-line	PNP	2.5	551373	SMT-10M-PS-24V-E-2.5-L-OE	
		Plug M8x1, 3-pin, in-line		0.3	551375	SMT-10M-PS-24V-E-0.3-L-M8D	
		Cable, 3-wire, lateral	PNP	2.5	551374	SMT-10M-PS-24V-E-2.5-Q-OE	
		Plug M8x1, 3-pin, lateral		0.3	551376	SMT-10M-PS-24V-E-0.3-Q-M8D	

Ordering data – Proximity switch for C-slot, magneto-resistive							Data sheets → Internet: smt
	Type of mounting	Electrical connection, outlet direction of connection	Switching output	Cable length [m]	Part no.	Type	
N/O							
	Inserted in the slot lengthwise	Cable, 3-wire, lateral	PNP	2.5	547862	SMT-10G-PS-24V-E-2.5Q-OE	
		Plug M8x1, 3-pin, lateral		0.3	547863	SMT-10G-PS-24V-E-0.3Q-M8D	
		Cable, 3-wire, lateral	NPN	2.5	8065030	SMT-10G-NS-24V-E-2.5Q-OE	
		Plug M8x1, 3-pin, lateral		0.3	8065029	SMT-10G-NS-24V-E-0.3Q-M8D	

Proximity switch for size 10 ... 40

Ordering data – Proximity switch for T-slot, magneto-resistive							Data sheets → Internet: smt
	Type of mounting	Electrical connection outlet direction of connection	Switching output	Cable length [m]	Part no.	Type	
N/O							
	Inserted in the slot from above, short design	Cable, 3-wire, in-line	PNP	2.5	574335	SMT-8M-A-PS-24V-E-2.5-OE	
		Plug M8x1, 3-pin, in-line		0.3	574334	SMT-8M-A-PS-24V-E-0.3-M8D	
		Plug M12x1, 3-pin, in-line		0.3	574337	SMT-8M-A-PS-24V-E-0.3-M12	
		Cable, 3-wire, in-line	NPN	2.5	574338	SMT-8M-A-NS-24V-E-2.5-OE	
		Plug M8x1, 3-pin, in-line		0.3	574339	SMT-8M-A-NS-24V-E-0.3-M8D	
N/C							
	Inserted in the slot from above, short design	Cable, 3-wire, in-line	PNP	7.5	574340	SMT-8M-A-PO-24V-E-7.5-OE	

Ordering data – Proximity switch for T-slot, magneto-resistive							Data sheets → Internet: smt
	Type of mounting	Electrical connection, outlet direction of connection	Switching output	Cable length [m]	Part no.	Type	
N/O							
	Inserted in the slot lengthwise	Cable, 3-wire, lateral	PNP	2.5	547859	SMT-8G-PS-24V-E-2.5Q-OE	
		Plug M8x1, 3-pin, lateral		0.3	547860	SMT-8G-PS-24V-E-0.3Q-M8D	
		Cable, 3-wire, lateral	NPN	2.5	8065028	SMT-8G-NS-24V-E-2.5Q-OE	
		Plug M8x1, 3-pin, lateral		0.3	8065027	SMT-8G-NS-24V-E-0.3Q-M8D	

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

Accessories

Position transmitter for size 10 ... 40

The position transmitter continuously senses the position of the piston.
It has an analogue output with an output signal relative to the piston position.

Ordering data – Position transmitters for T-slot

Data sheets → Internet: position transmitter

	Position measuring range	Analogue output [V]	[mA]	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type
	0 ... 40	0 ... 10	–	Inserted in the slot from above	Plug M8x1, 4-pin, in-line	0.3	553744	SMAT-8M-U-E-0.3-M8D

Ordering data – Position transmitters for T-slot

Data sheets → Internet: sdas

	Description	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type
	Choice of two operating modes: • Two adjustable switching outputs • IO-Link	Inserted in the slot from above	Plug M8x1, 4-pin, in-line	0.3	8063974	SDAS-MHS-M40-1L-PNLK-PN-E-0.3-M8
			Cable, open end	2.5	8063975	SDAS-MHS-M40-1L-PNLK-PN-E-2.5-LE

Ordering data – Connecting cables

Data sheets → Internet: nebu

	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type
	Straight socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	541342	NEBU-M8G4-K-2.5-LE4
			5	541343	NEBU-M8G4-K-5-LE4
	Angled socket, M8x1, 4-pin	Cable, open end, 4-wire	2.5	541344	NEBU-M8W4-K-2.5-LE4
			5	541345	NEBU-M8W4-K-5-LE4