

Parallel grippers DHPC

FESTO



Key features

At a glance

General

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

Flexible range of applications

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

Gripper characteristic

[L] Long stroke

- Available for sizes 10 ... 25

Position sensing

[A] Via proximity switch



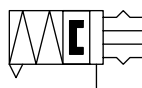
Gripping force backup

[NC] Normally closed



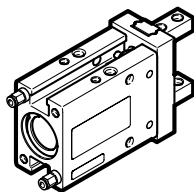
Gripping force backup

[NO] Normally open



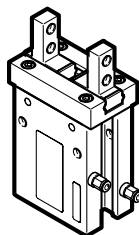
Pneumatic connection

[B] Underneath



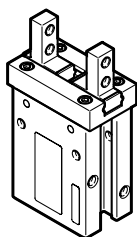
Pneumatic connection

[S] On the side



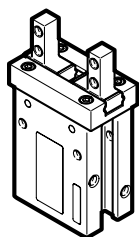
Type of mounting for gripper fingers

[] Standard



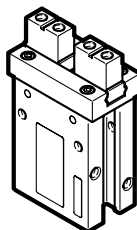
Type of mounting for gripper fingers

[1] Mounting holes on the side



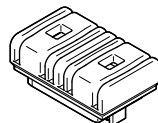
Type of mounting for gripper fingers

[2] Flat gripper fingers



Dust protection

[C] Protective dust cap

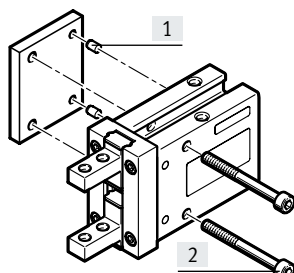
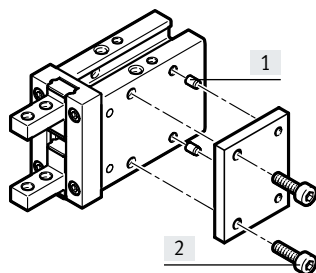


- Available for sizes 10 ... 25

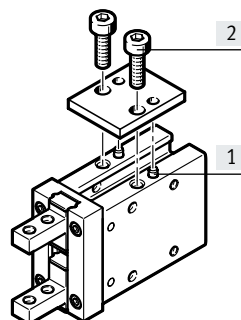
Key features

Mounting options

On the side

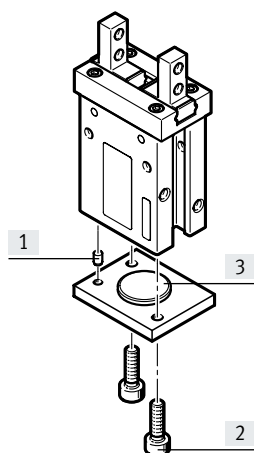
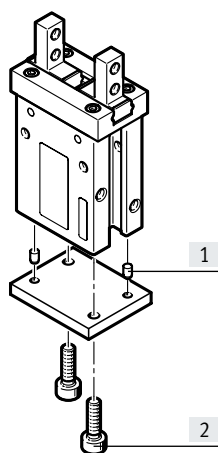


Vertical



- [1] Centring sleeves
- [2] Retaining screws

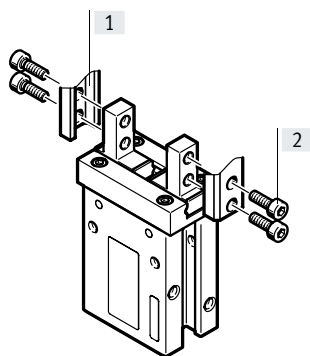
from underneath



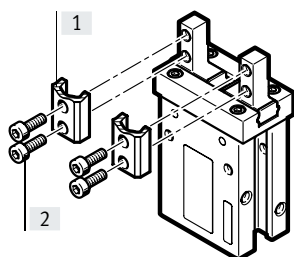
- [1] Centring sleeves
- [2] Retaining screws
- [3] Base

Mounting external gripper fingers

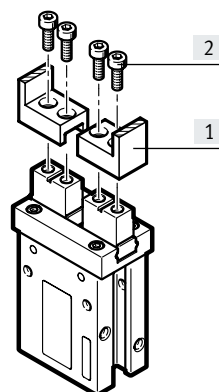
Standard



Mounting holes on the side



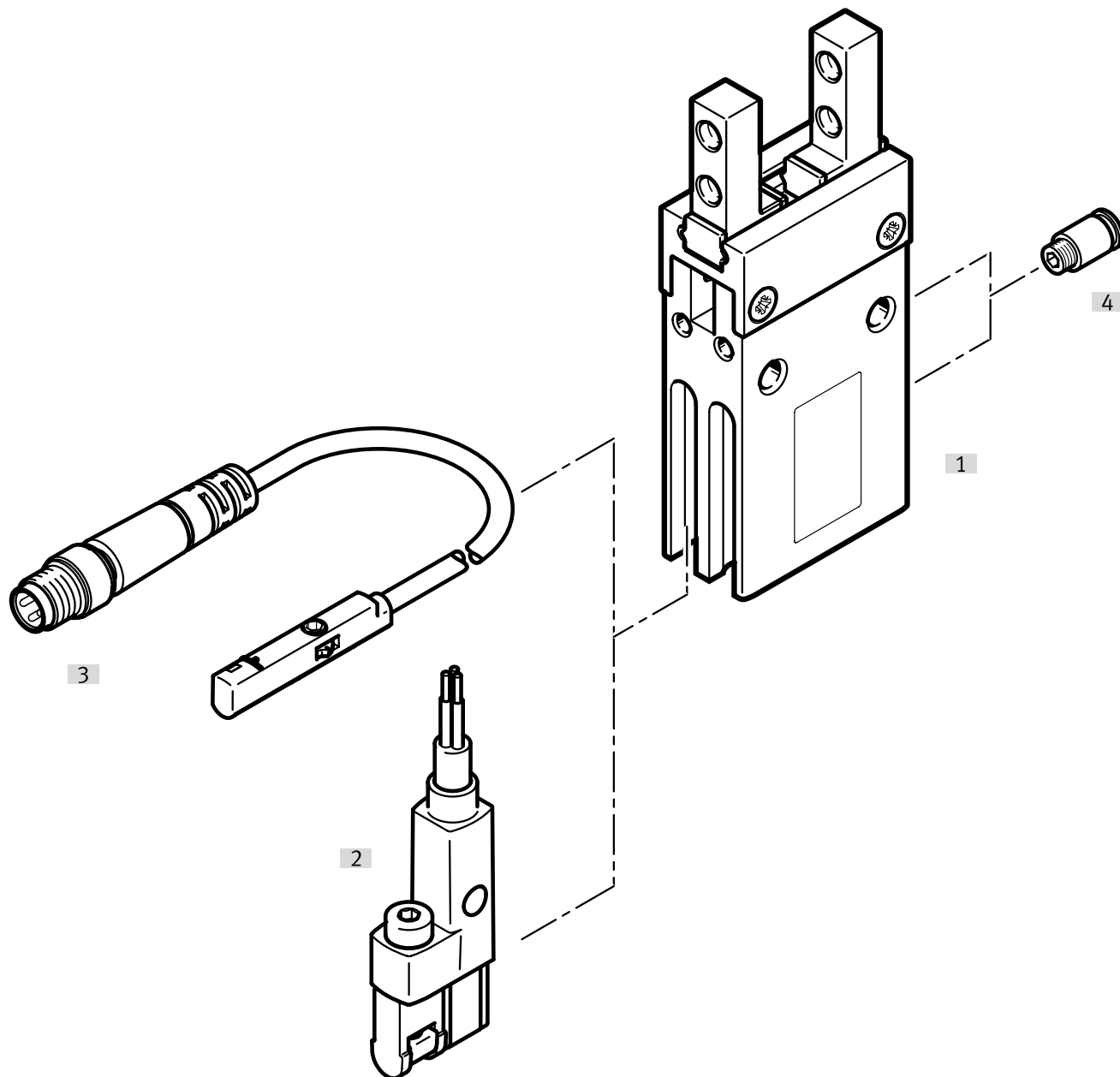
Flat gripper fingers



- [1] External gripper fingers
- [2] Retaining screws

Peripherals overview

Size: 6

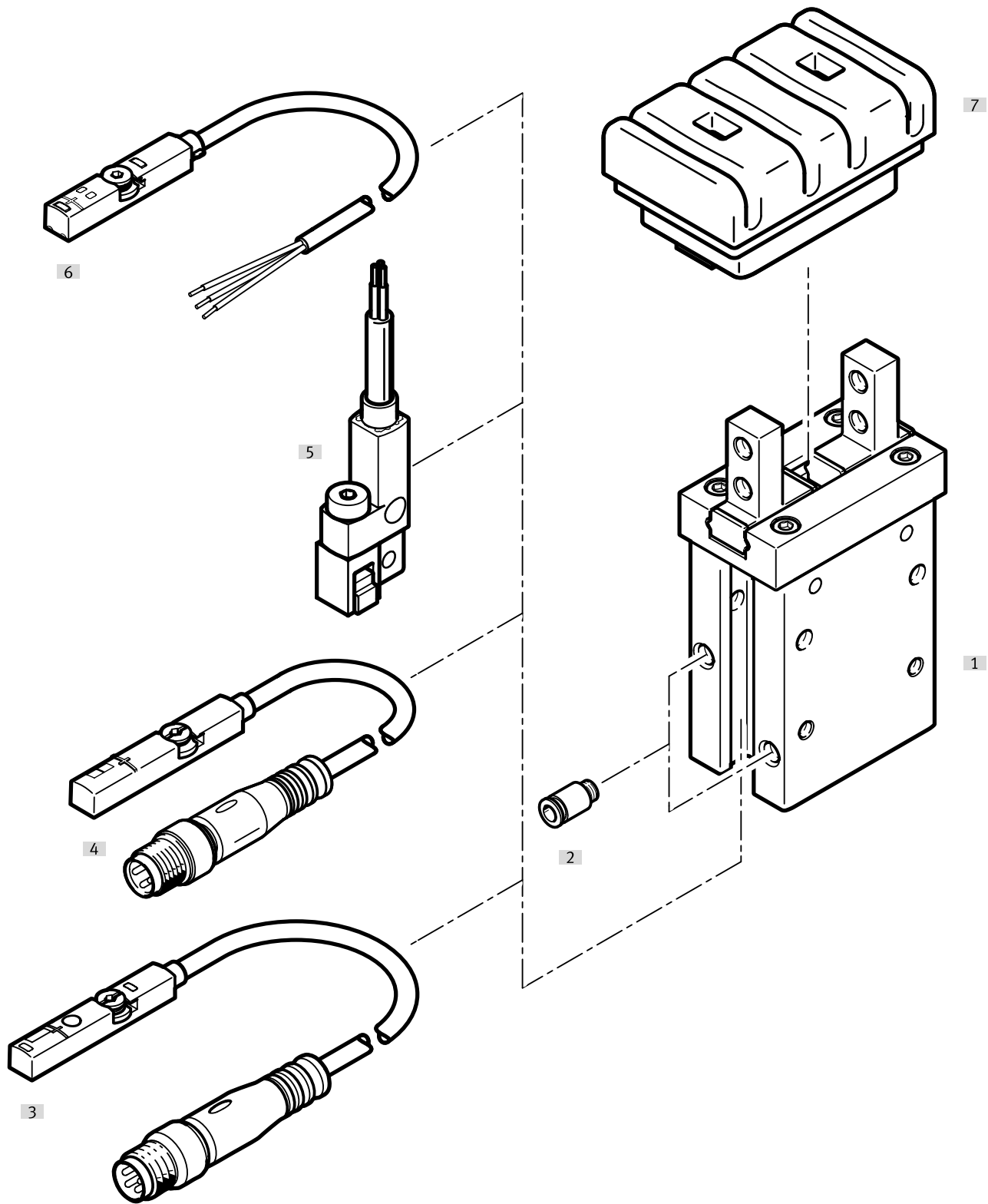


Peripherals overview

Accessories			
	Type/order code	Description	→ Page/Internet
[1]	Parallel gripper DHPC	Double or single acting	11
[2]	Proximity switch SMT-10G	For sensing the piston position in the end positions	44
[3]	Proximity switch SMT-10M	For sensing the piston position in the end positions	44
[4]	Push-in fitting QS	For connecting tubing with standard O.D.	qs

Peripherals overview

Size 10

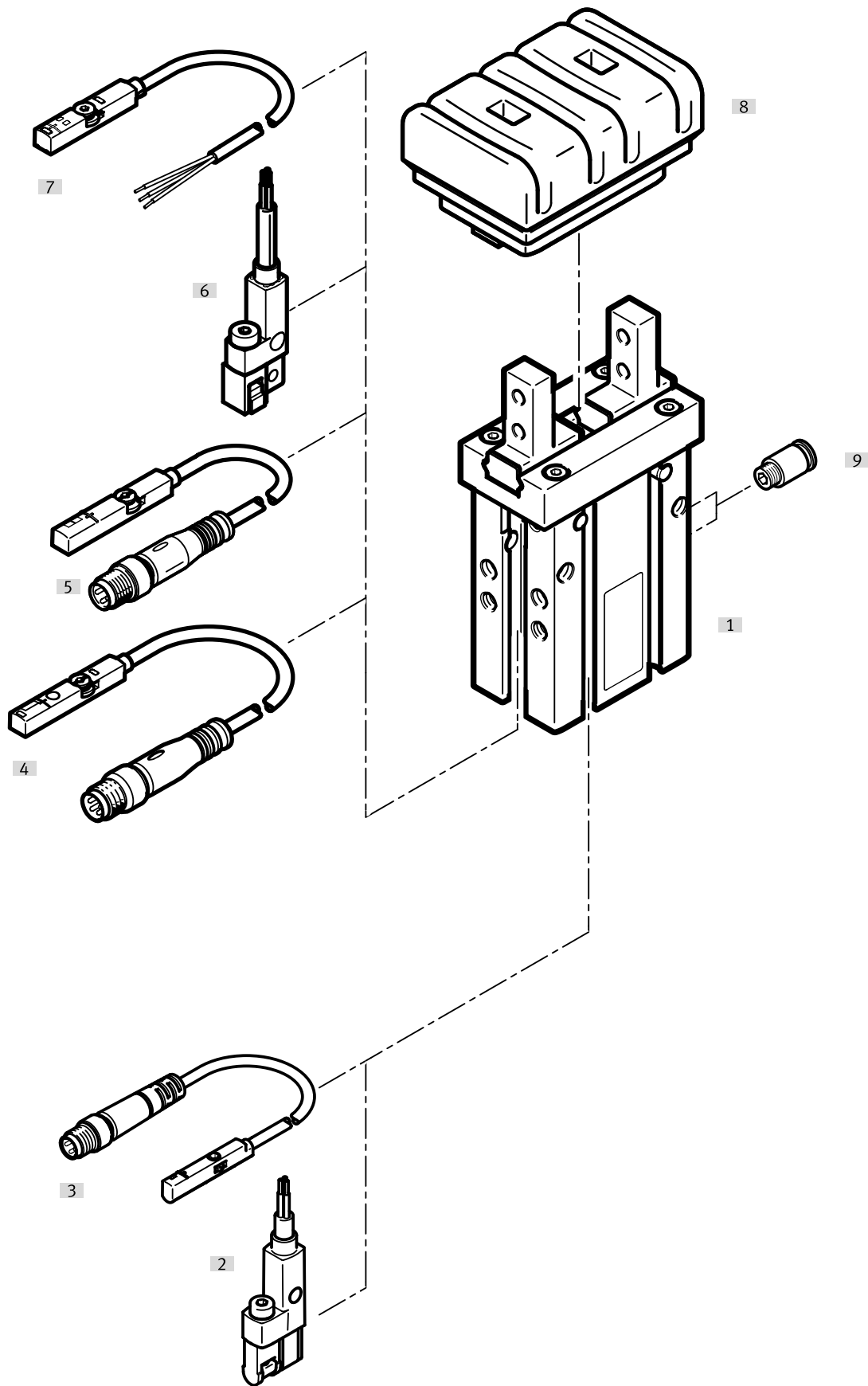


Peripherals overview

Accessories			
	Type/order code	Description	→ Page/Internet
[1]	Parallel gripper DHPC	Double or single acting	11
[2]	Push-in fitting QS	For connecting tubing with standard O.D.	qs
[3]	Position transmitter SDAS-MHS	For sensing the piston position at any location	46
[4]	Position transmitter SMAT-8M	For sensing the piston position at any location	46
[5]	Proximity switch SMT-8G	For sensing the piston position in the end positions	44
[6]	Proximity switch SMT-8M	For sensing the piston position in the end positions	44
[7]	Protective dust cap DHAS-DP	For protecting the gripper against the ingress of dust	43

Peripherals overview

Size 16 ... 40



Peripherals overview

Accessories			
	Type/order code	Description	→ Page/Internet
[1]	Parallel gripper DHPG	Double or single acting	11
[2]	Proximity switch SMT-10G	For sensing the piston position in the end positions	44
[3]	Proximity switch SMT-10M	For sensing the piston position in the end positions	44
[4]	Position transmitter SDAS-MHS	For sensing the piston position at any location	46
[5]	Position transmitter SMAT-8M	For sensing the piston position at any location	46
[6]	Proximity switch SMT-8G	For sensing the piston position in the end positions	44
[7]	Proximity switch SMT-8M	For sensing the piston position in the end positions	44
[8]	Protective dust cap DHAS-DP	For protecting the gripper against the ingress of dust	43
[9]	Push-in fitting QS	For connecting tubing with standard O.D.	qs

Type codes

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

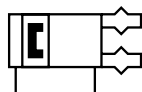
005	Gripping force backup	
	None	
NC	N/O contact	
NO	Opening	
006	Pneumatic connection	
B	Bottom	
S	On the side	
007	Dust protection	
	None	
C	Protective dust cap	
008	Type of mounting gripper finger	
	None	
1	Mounting holes at the side	
2	Flat gripper fingers	

Datasheet

Function

Double-acting

DHPC-...-A



-  - Size
6 ... 40 mm

-  - Total stroke
4 ... 30 mm

Function

Single-acting

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							
	Type of mounting for gripper fingers: standard							
	Sideways mounting of gripper fingers							
	Flat mounting of gripper fingers							
Operating mode	Double-acting							
	Single-acting							
	Closed							
	Open							
Gripper function	Parallel							
Guide	Ball guide							
Number of gripper jaws	2							
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			
Repetition accuracy of gripper ¹⁾	[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						
Mounting position	Any							

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

Datasheet

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						

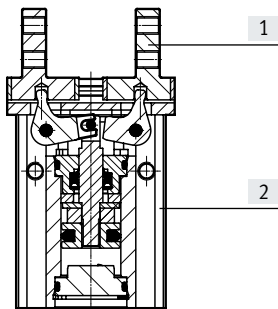
1) Note operating range of proximity switches

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-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	-	-

Datasheet

Materials

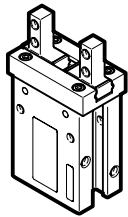
Sectional view



Parallel gripper

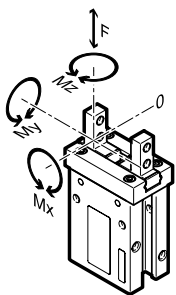
[1]	Gripper jaws	High-alloy stainless steel
[2]	Housing	Anodised aluminium
–	Protective dust cap	NBR
	Note on materials	RoHS-compliant
	LABS (PWIS) conformity	VDMA24364-B2-L

Gripping force [N] at 6 bar



Size		6	10	16	20	25	32	40
Gripping force per gripper jaw								
DHPG...-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
DHPG...-NO	Closing	3.9	16.4	43.4	69.7	120.6	207.6	337.5
DHPG...-NC	Opening	5.2	19.6	50.5	85.5	145.7	233	366.8

Characteristic load values at the gripper jaws



The specified permissible forces and torques refer to one gripper jaw. They include the lever arm, additional weight forces caused by the workpiece or external gripping fingers and acceleration forces that occur during the movement. The zero coordinate line (gripper jaw guide) must be taken into consideration when calculating torques.

Note

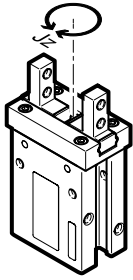
Collisions of the slides must be avoided. In the event of a collision, the slides can get damaged.

More information → User documentation

Size		6	10	16	20	25	32	40
Max. permissible force F	[N]	22	33	84	101.3	155.9	246.8	351.5
Max. permissible torque M_x	[Nm]	0.24	0.18	0.94	1.43	4.83	10.9	16.15
Max. permissible torque M_y	[Nm]	0.11	0.28	0.71	1.3	2.52	6.29	9.55
Max. permissible torque M_z	[Nm]	0.11	0.28	0.71	1.3	2.52	6.29	9.55

Datasheet

Mass moments of inertia [kgm²x10⁻⁴]

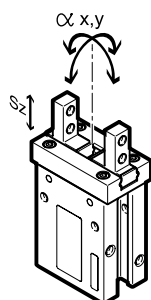


Mass moment of inertia of the parallel gripper in relation to the central axis, without external gripper fingers, with no load.

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-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	–	–

Datasheet

Gripper jaw backlash

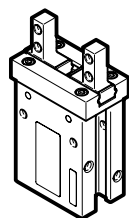


The gripper has a ball guide, which eliminates any possible backlash between the gripper jaws and the housing. The backlash values listed in the table have been calculated based on the traditional accumulative tolerance method.

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



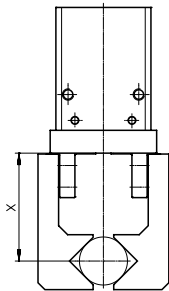
The specified opening and closing times [ms] were measured at room temperature, an operating pressure of 6 bar and with the gripper installed horizontally without additional gripping fingers. The grippers must be throttled for larger loads [g]. Opening and closing times must then be adjusted accordingly.

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	–	–

Datasheet

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 operating pressure and lever arm can be determined from the following graphs.



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

Note

Engineering software

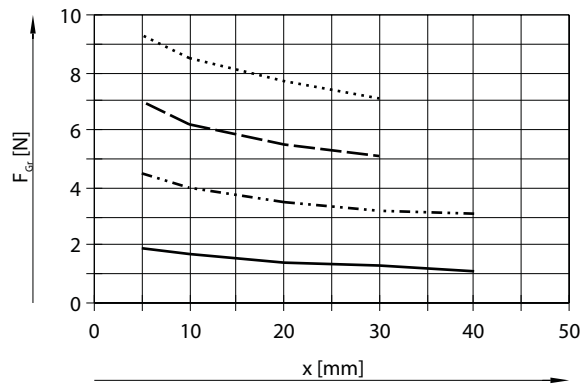
Gripper selection

→ www.festo.com

External gripping (closing)

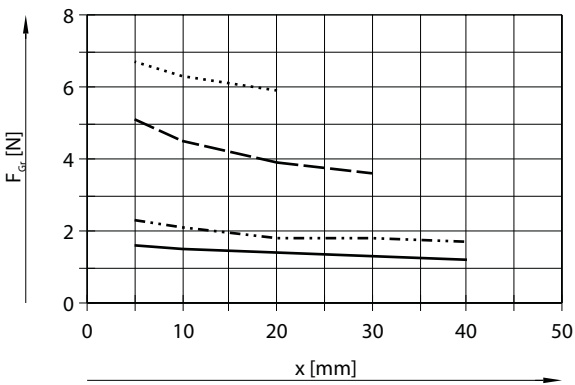
Double-acting

DHPC-6-A

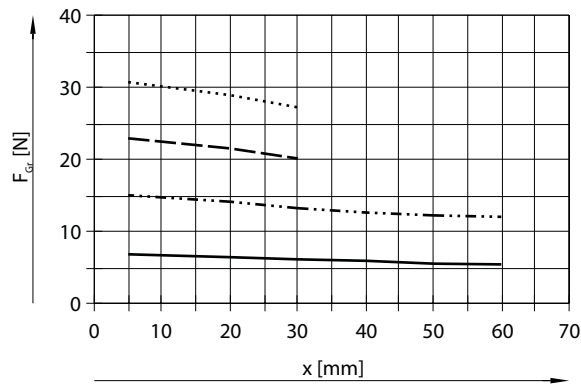


Single-acting

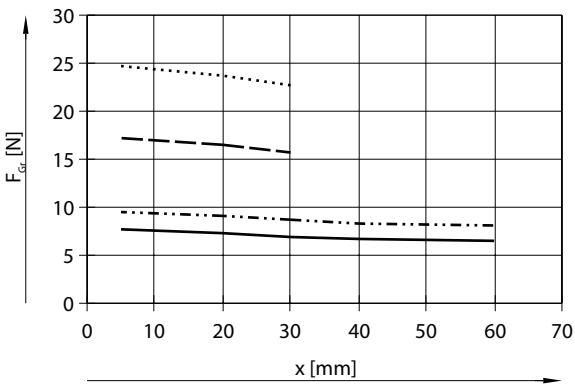
DHPC-6-A-NO



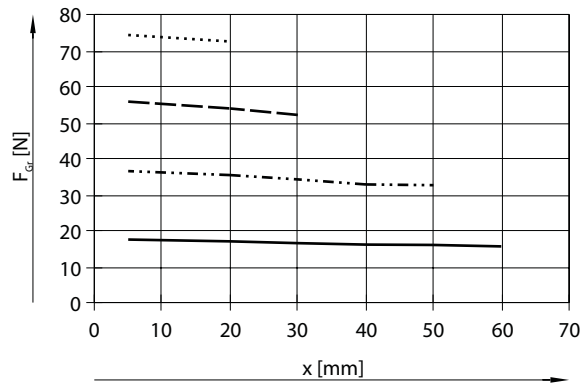
DHPC-10-A/DHPC-L-10-A



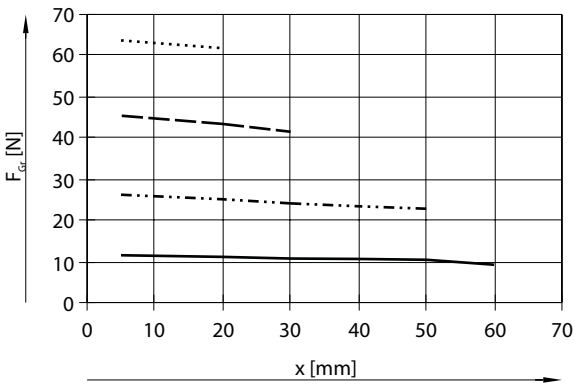
DHPC-10-A-NO/DHPC-L-10-A-NO



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



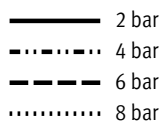
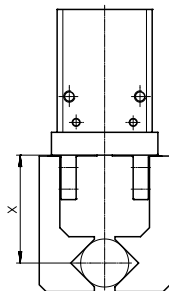
DHPC-16-A-NO/DHPC-L-16-A-NO



Datasheet

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 operating pressure and lever arm can be determined from the following graphs.

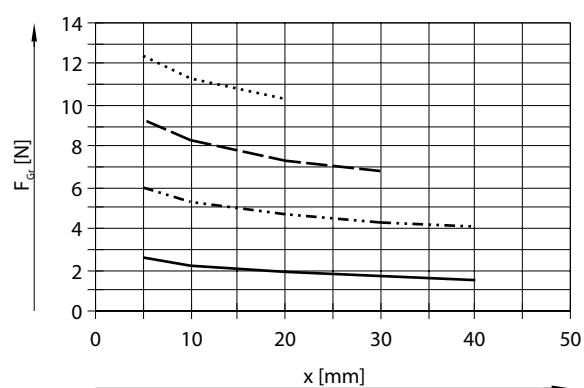


Note
Engineering software
Gripper selection
→ www.festo.com

Internal gripping (opening)

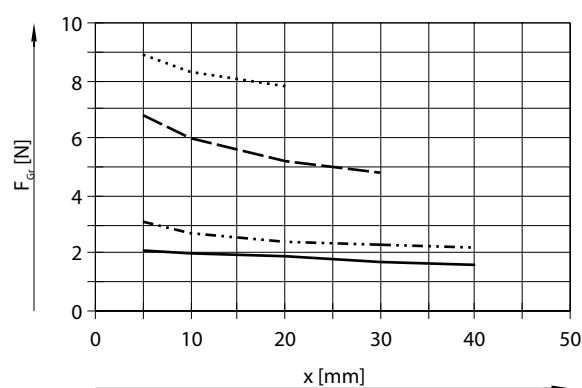
Double-acting

DHPC-6-A

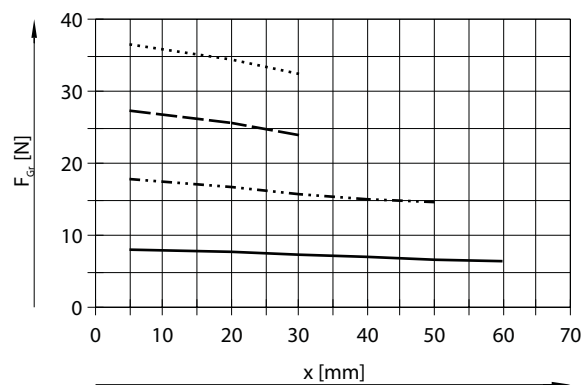


Single-acting

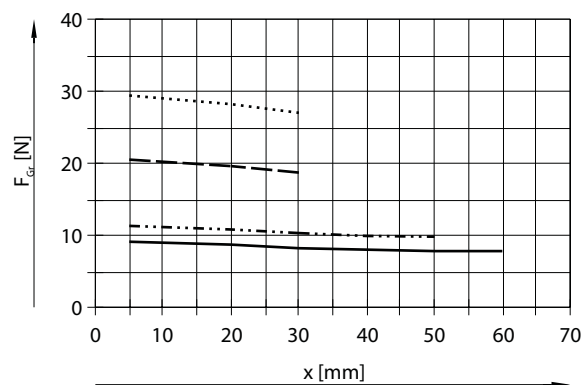
DHPC-6-A-NC



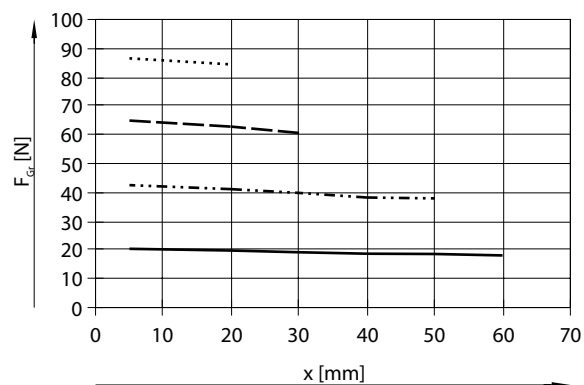
DHPC-10-A/DHPC-L-10-A



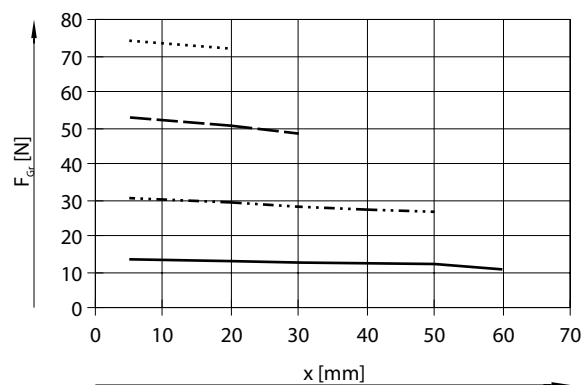
DHPC-10-A-NC/DHPC-L-10-A-NC



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



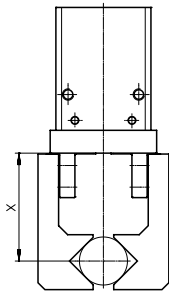
DHPC-16-A-NC/DHPC-L-16-A-NC



Datasheet

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 operating pressure and lever arm can be determined from the following graphs.

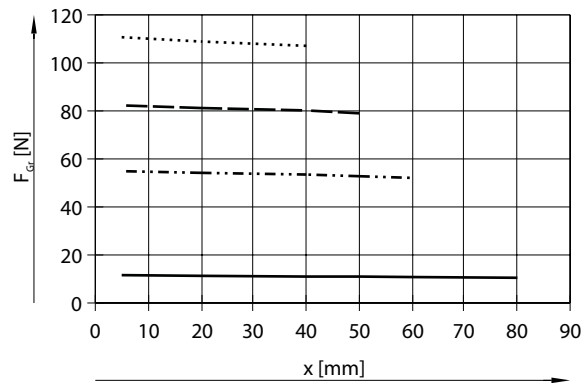


- 2 bar
- - - 4 bar
- - - 6 bar
- 8 bar

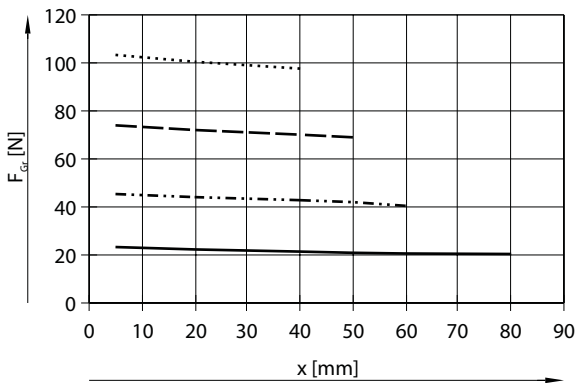
 **Note**
Engineering software
Gripper selection
→ www.festo.com

External gripping (closing)

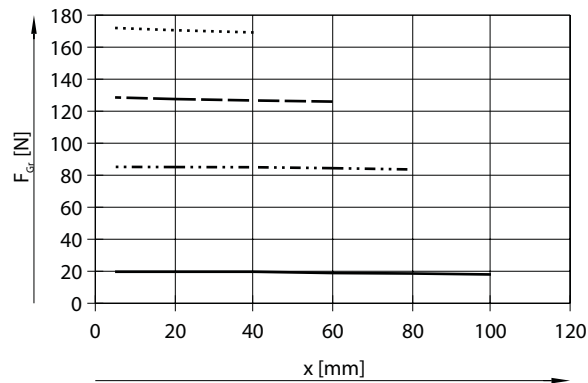
Double-acting
DHPC-20-A/DHPC-L-20-A



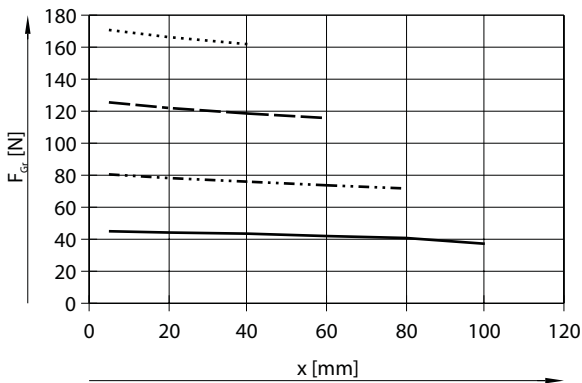
Single-acting
DHPC-20-A-NO/DHPC-L-20-A-NO



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



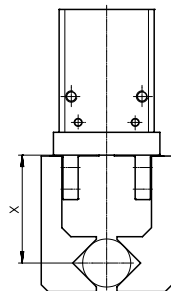
DHPC-25-A-NO/DHPC-L-25-A-NO



Datasheet

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 operating pressure and lever arm can be determined from the following graphs.



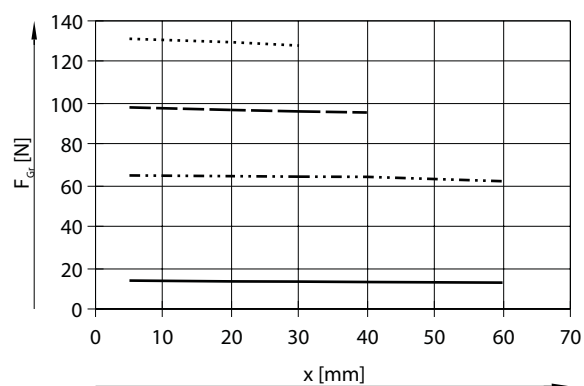
— 2 bar
 - - - 4 bar
 - - - 6 bar
 8 bar

Note
 Engineering software
 Gripper selection
 → www.festo.com

Internal gripping (opening)

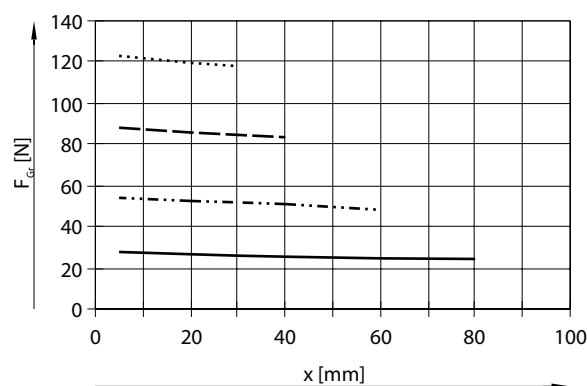
Double-acting

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

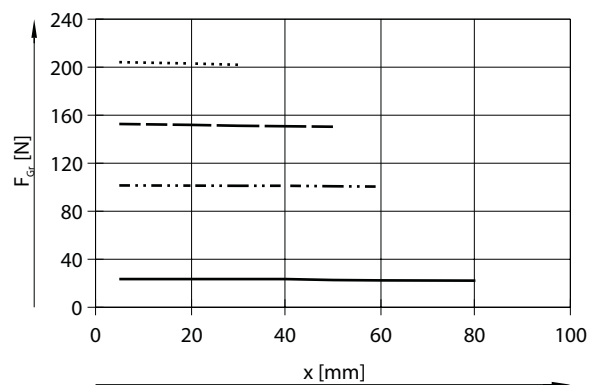


Single-acting

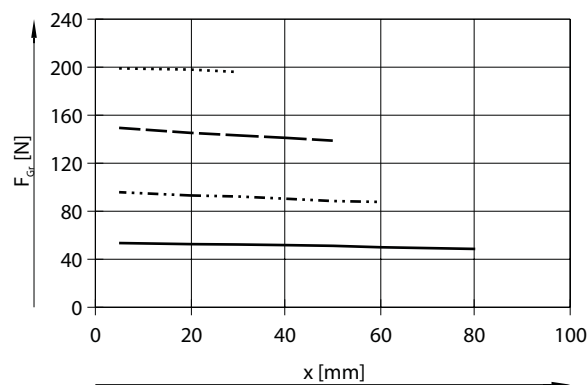
DHPC-20-A-NC/DHPC-L-20-A-NC



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



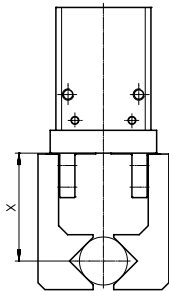
DHPC-25-A-NC/DHPC-L-25-A-NC



Datasheet

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 operating pressure and lever arm can be determined from the following graphs.

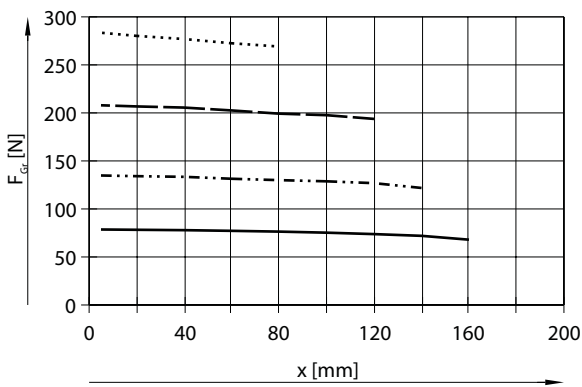
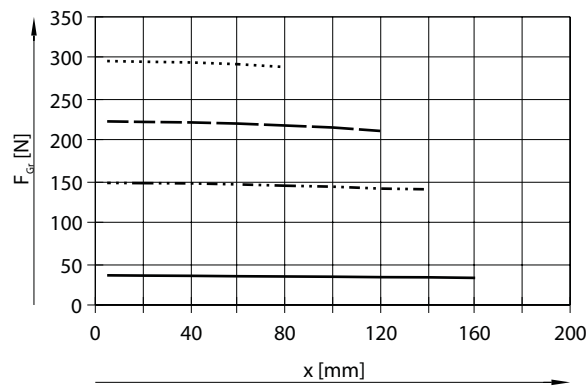


- 2 bar
- · - · 4 bar
- - - 6 bar
- 8 bar

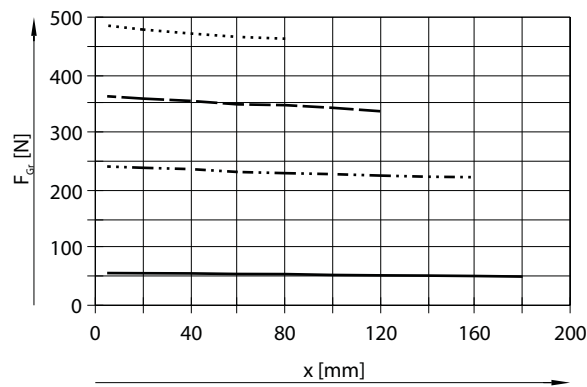
 **Note**
Engineering software
Gripper selection
→ www.festo.com

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

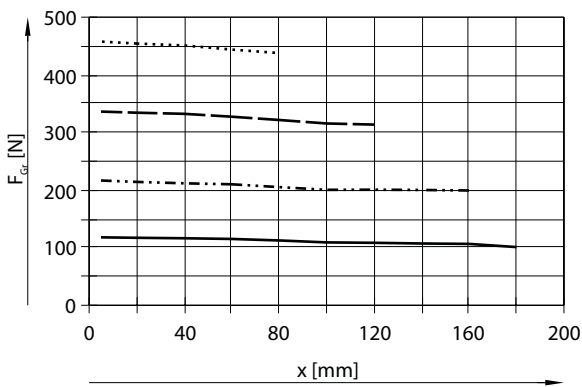
Single-acting
DHPG-32-A-NO



DHPG-40-A



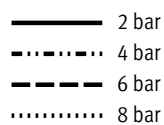
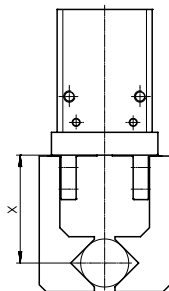
DHPG-40-A-NO



Datasheet

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 operating pressure and lever arm can be determined from the following graphs.

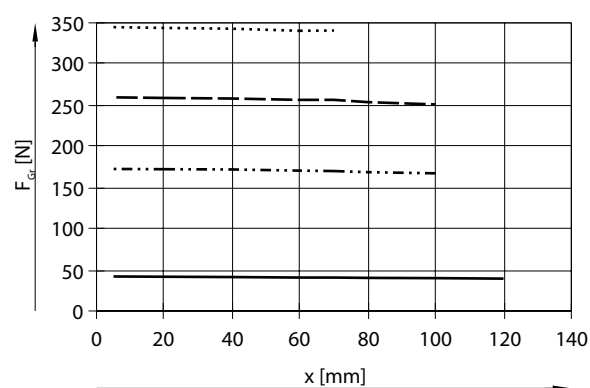
**Note**

Engineering software
Gripper selection
→ www.festo.com

Internal gripping (opening)

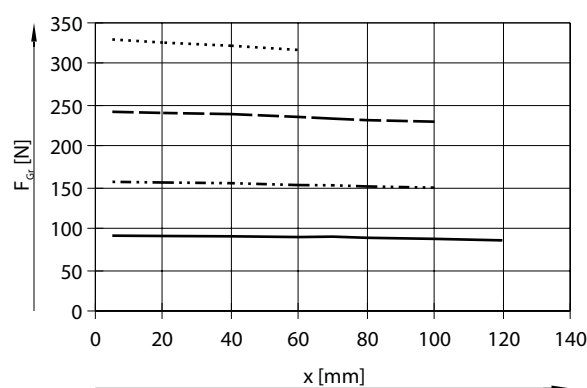
Double-acting

DHPC-32-A

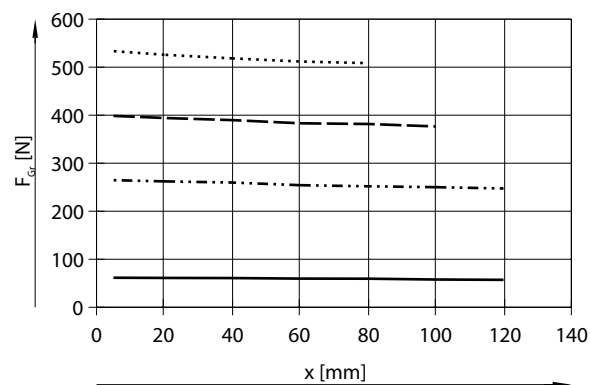


Single-acting

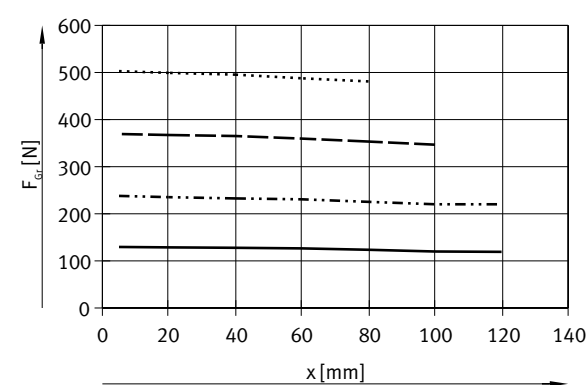
DHPC-32-A-NC



DHPC-40-A



DHPC-40-A-NC

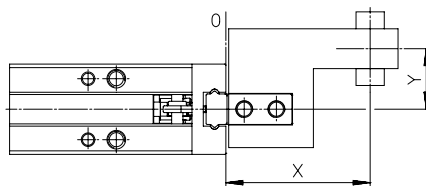


Datasheet

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 23/25).



Calculation example

Where:

DHPC-16-A

Lever arm $x = 10$ mm

Eccentricity $y = 11$ mm

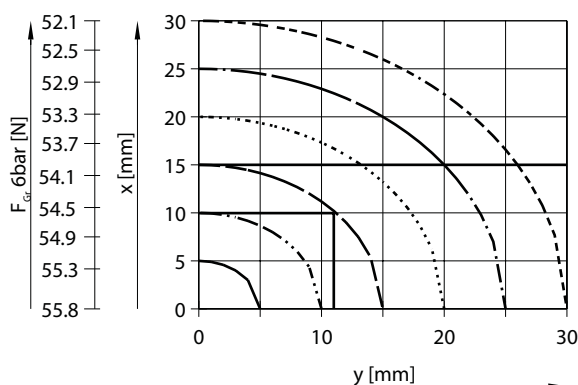
To be determined:

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

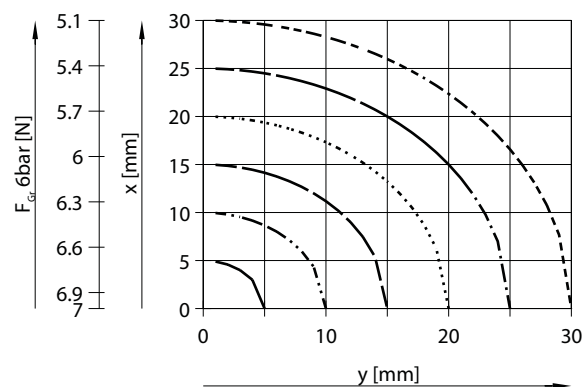


Datasheet

External gripping (closing)

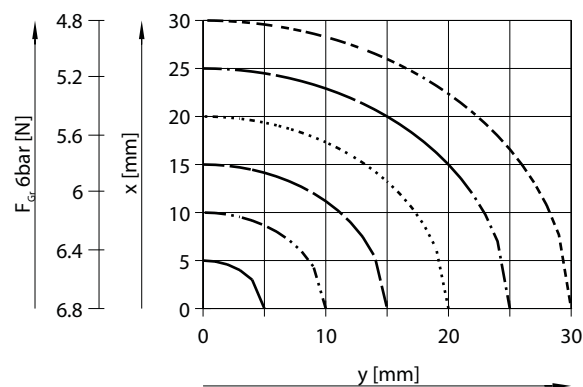
Double-acting

DHPC-6-A

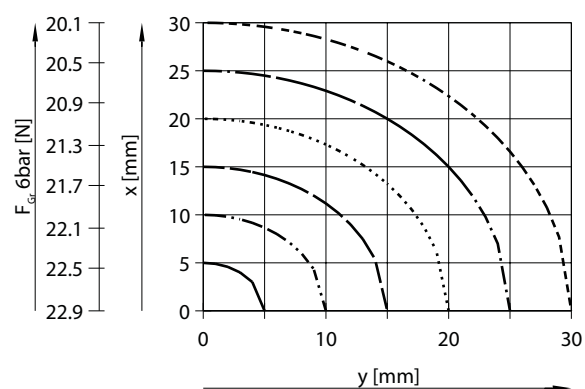


Single-acting

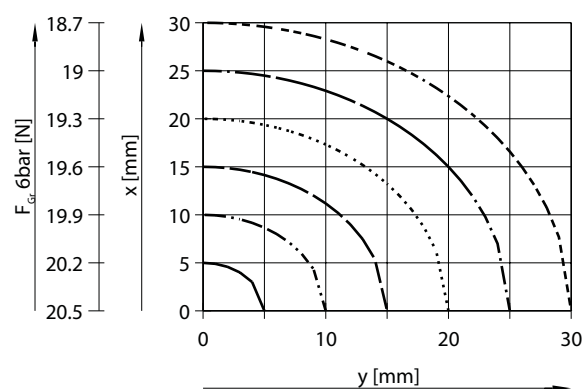
DHPC-6-A-NC



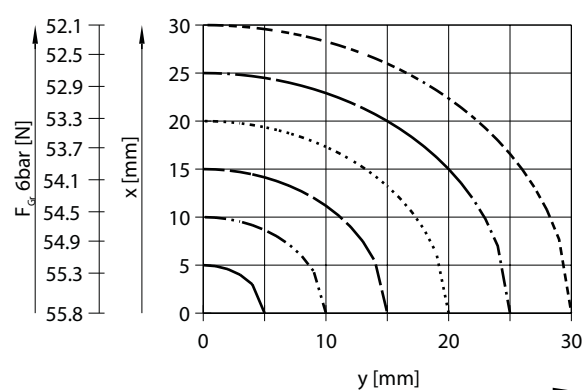
DHPC-10-A/DHPC-L-10-A



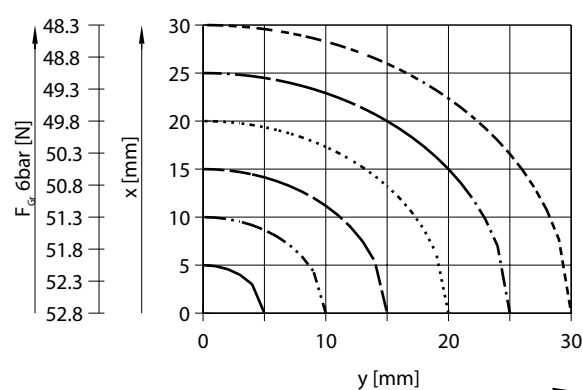
DHPC-10-A-NC/DHPC-L-10-A-NC



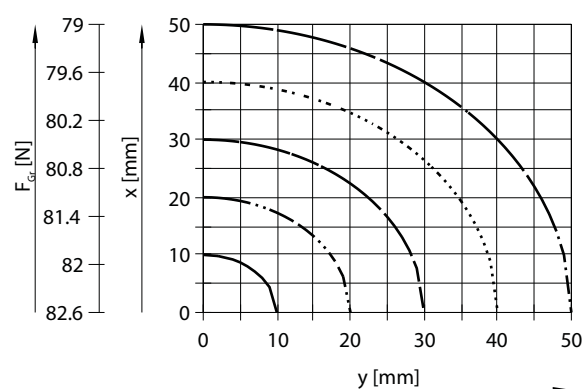
DHPC-16-A/DHPC-L-16-A



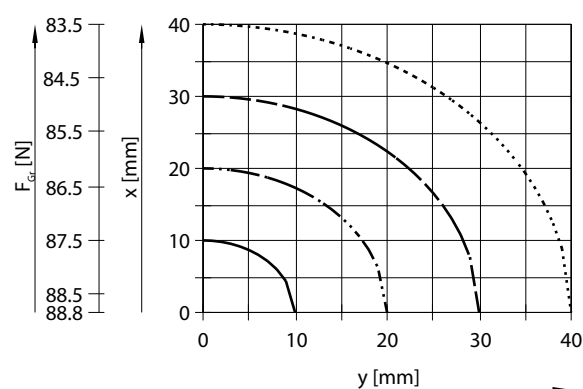
DHPC-16-A-NC/DHPC-L-16-A-NC



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



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

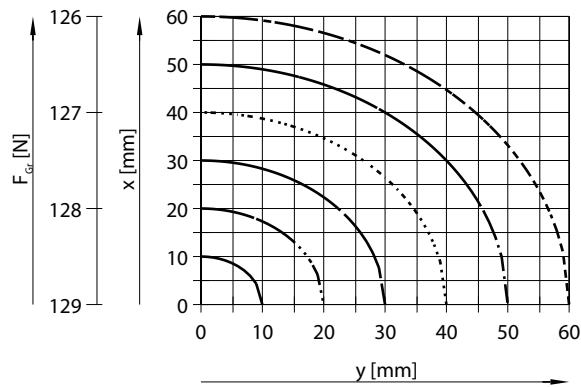


Datasheet

External gripping (closing)

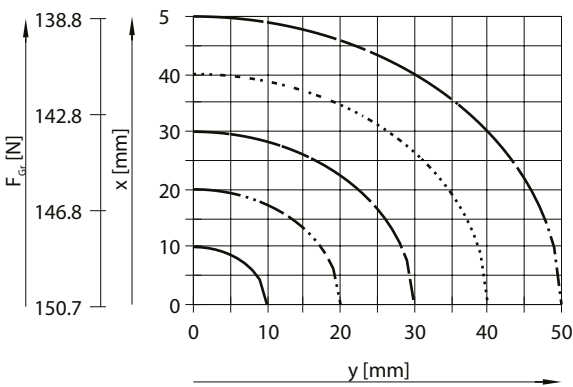
Double-acting

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

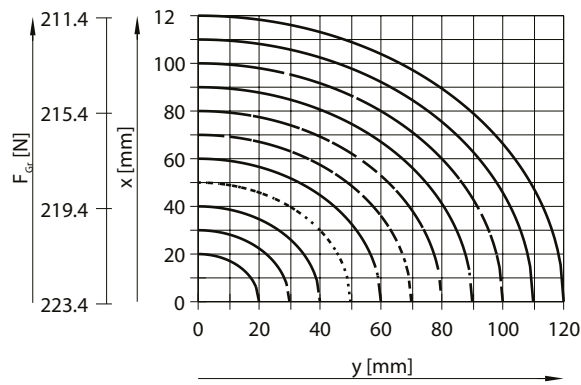


Single-acting

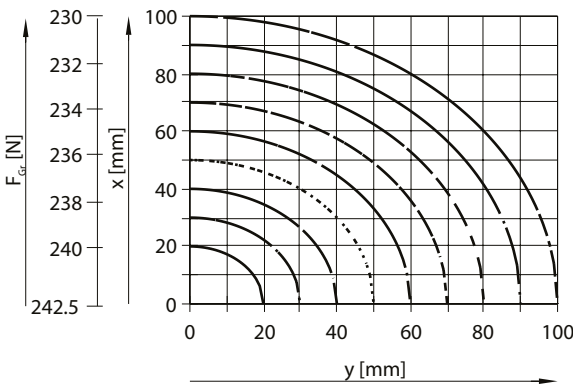
DHPC-25-A-NC/DHPC-L-25-A-NC



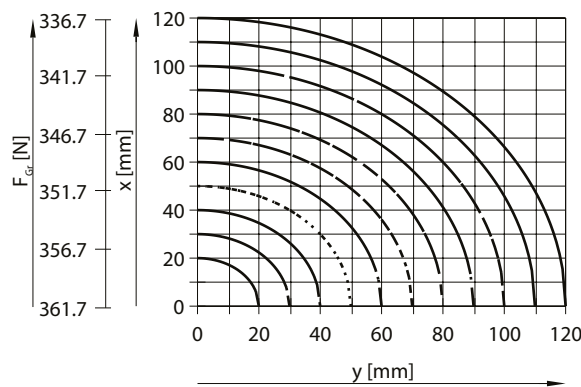
DHPC-32-A



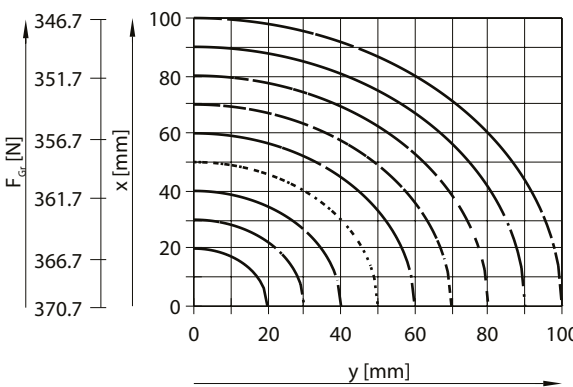
DHPC-32-A-NC



DHPC-40-A



DHPC-40-A-NC

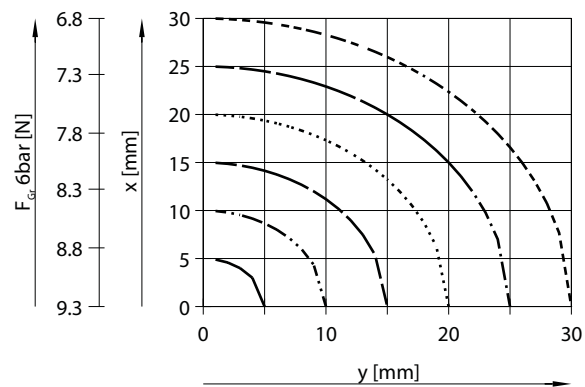


Datasheet

Internal gripping (opening)

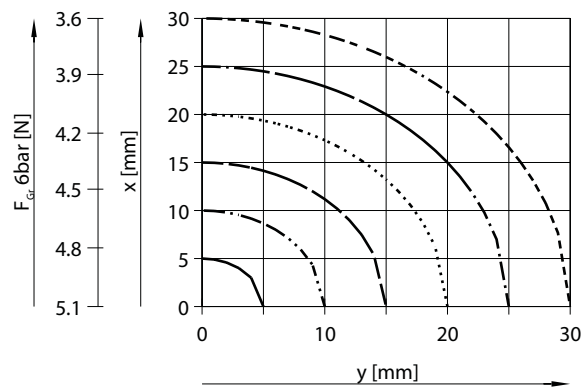
Double-acting

DHPC-6-A

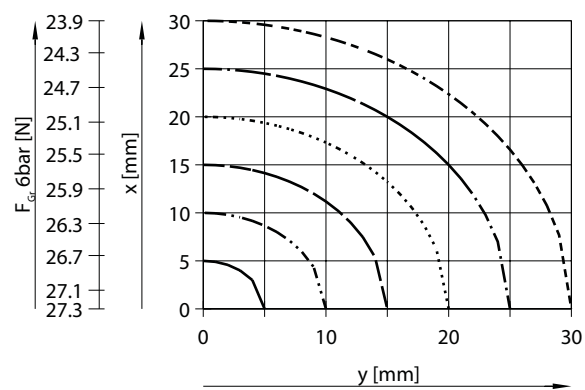


Single-acting

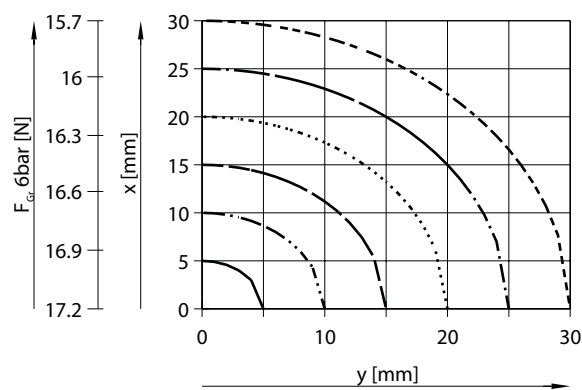
DHPC-6-A-NO



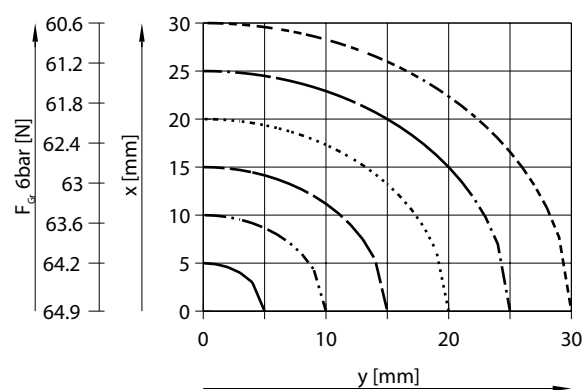
DHPC-10-A/DHPC-L-10-A



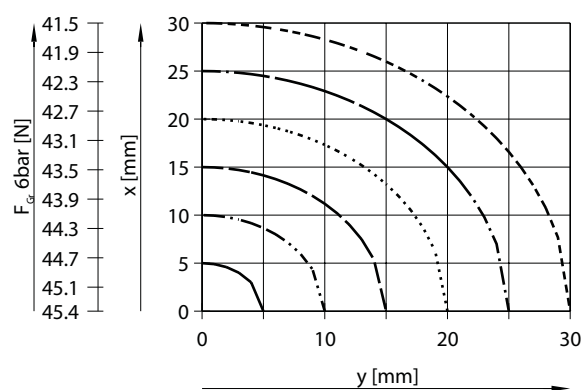
DHPC-10-A-NO/DHPC-L-10-A-NO



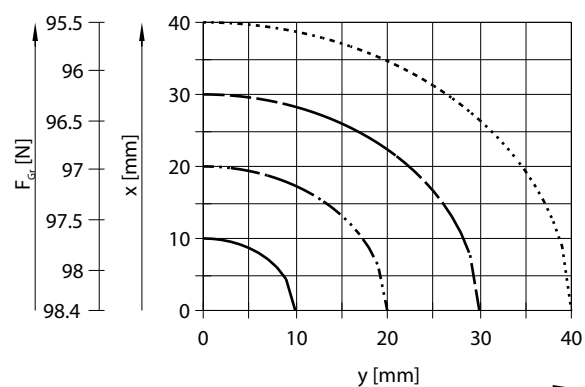
DHPC-16-A/DHPC-L-16-A



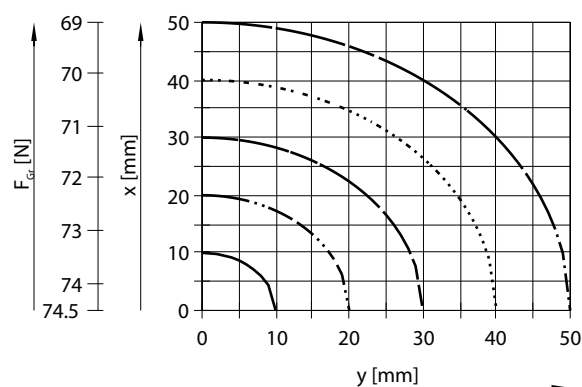
DHPC-16-A-NO/DHPC-L-16-A-NO



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

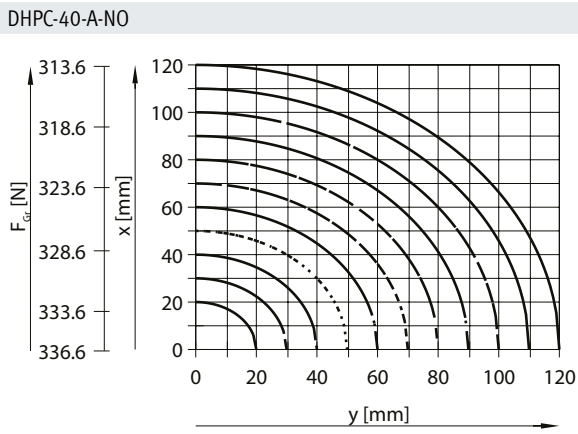
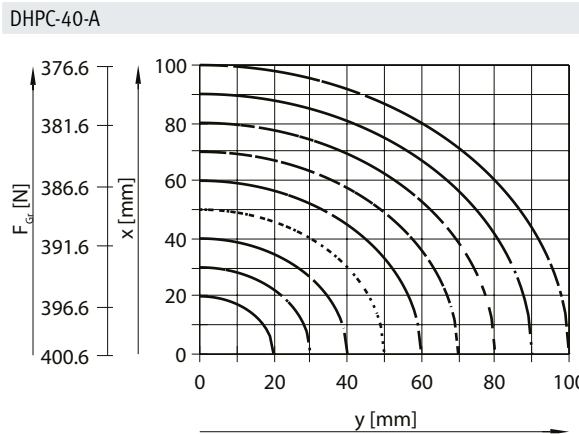
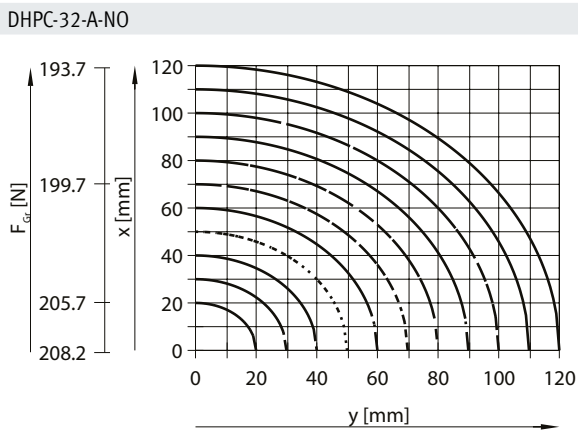
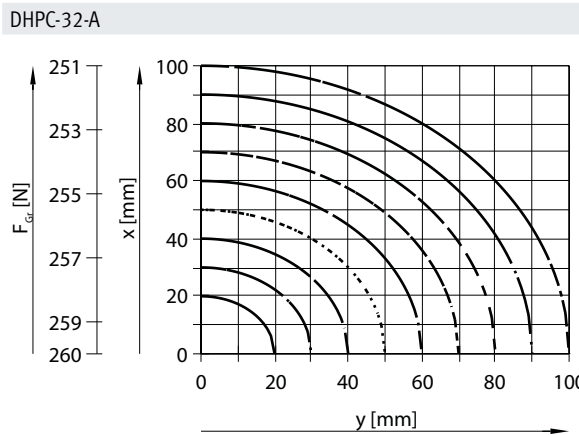
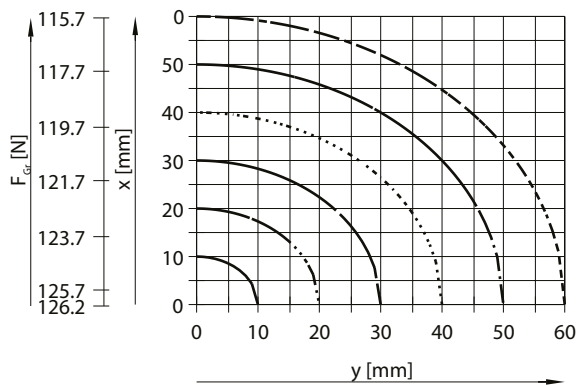
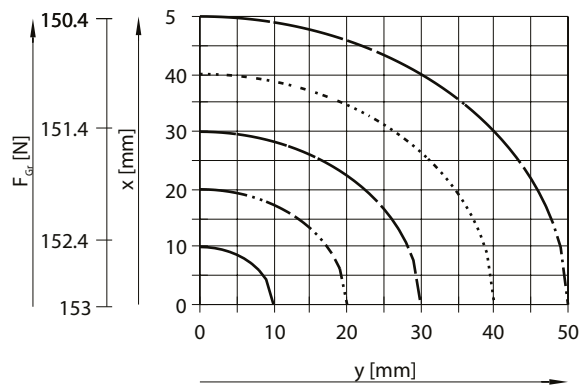


DHPC-20-A-NO/DHPC-L-20-A-NO



Datasheet

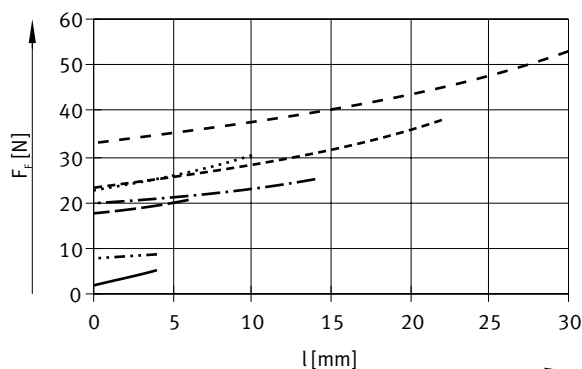
Internal gripping (opening)	Single-acting
Double-acting	
DHPC-25-A/DHPC-L-25-A	DHPC-25-A-NO/DHPC-L-25-A-NO



Datasheet

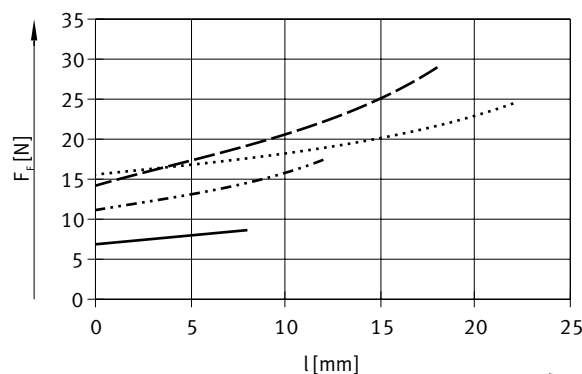
Spring force F_F as a function of the size and the total gripper jaw stroke l – gripping force backup

DHPC-...-N...



— DHPC-6-A-N...
 - - DHPC-10-A-N...
 - · - DHPC-16-A-N...
 · · · DHPC-20-A-N...
 — · - DHPC-25-A-N...
 - · - DHPC-32-A-N...
 - · - DHPC-40-A-N...

DHPC-L-...-N...



— DHPC-L-10-A-N...
 - - DHPC-L-16-A-N...
 - · - DHPC-L-20-A-N...
 · · · DHPC-L-25-A-N...

Spring force F_F as a function of size, gripper jaw stroke l and lever arm x per gripper finger

To determine the actual spring force F_{Ftot} , the lever arm x must be taken into account.

Formulas for calculating the spring force F_{Ftot} per gripper finger:

DHPC-6: $-0.0056 \cdot x + 0.5 \cdot F_F$
 DHPC-10: $-0.0106 \cdot x + 0.5 \cdot F_F$
 DHPC-16: $-0.0143 \cdot x + 0.5 \cdot F_F$
 DHPC-20: $-0.0102 \cdot x + 0.5 \cdot F_F$
 DHPC-25: $-0.0454 \cdot x + 0.5 \cdot F_F$
 DHPC-32: $-0.0041 \cdot x + 0.5 \cdot F_F$
 DHPC-40: $-0.0067 \cdot x + 0.5 \cdot F_F$

Determination of the actual gripping forces F_{Gr} for DHPC-...-NO and DHPC-...-NC as a function of application

The parallel grippers with integrated spring type DHPC-...-NO (opening gripping force backup) and DHPC-...-NC (closing gripping force backup) can be used as:

- Single-acting grippers
- Grippers with gripping force backup depending on requirements.

To calculate available gripping forces F_{Gr} (per gripper jaw), the data for gripping force F_H and spring force F_{Ftot} must be combined accordingly.

Application

Single-acting:

- Gripping with spring force: $F_{\text{Gr}} = F_{\text{Ftot}}$
- Gripping with pressure force: $F_{\text{Gr}} = F_H - F_{\text{Ftot}}$

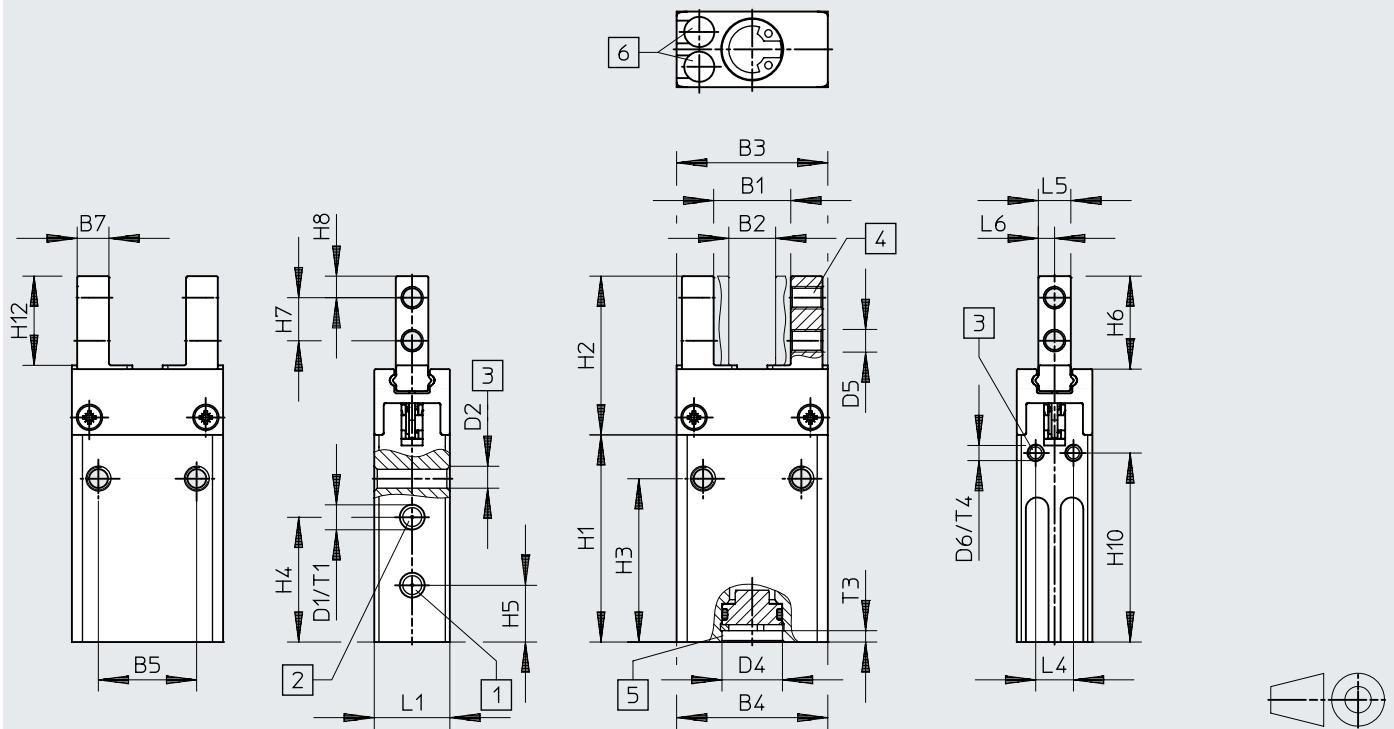
Gripping force backup

- Gripping with spring force: $F_{\text{Gr}} = F_{\text{Ftot}}$

Datasheet

Dimensions Download CAD data → www.festo.com

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



- [1] Pneumatic connection, opening
- [2] Pneumatic connection, 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 ∅ H11	D5	D6	H1	H2	H3
[mm]			-0.2	+0.3		-0.1								
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

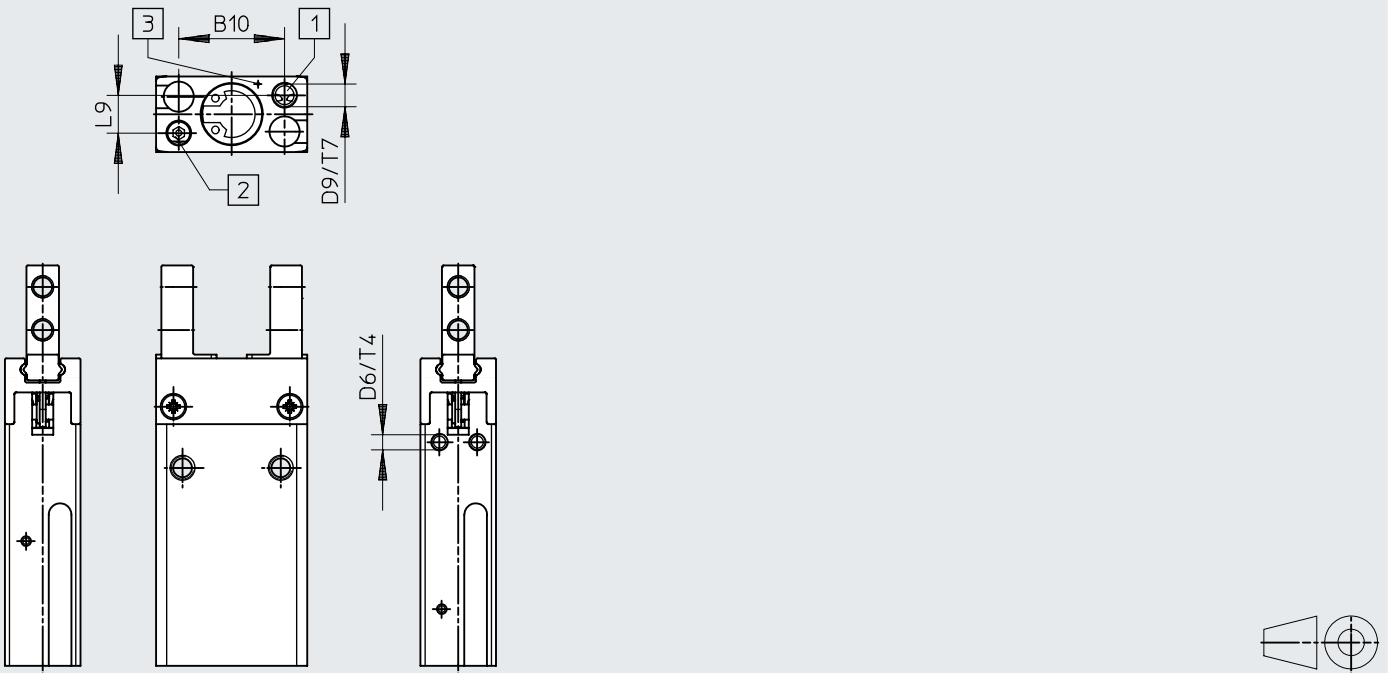
Size	H4	H5	H6	H7	H8	H10	H12	L1	L4	L5	L6	T1	T3	T4
[mm]								+0.3		-0.05				
DHPC-6-A-S	16.5	7.5	12.3	5.7	2.9	25	11.8	10	5	4.3	2.2	4.5	1.5	4.5
DHPC-6-A-NO/NC-S						28								

Datasheet

Dimensions

DHPC-6-...-B: Pneumatic connection underneath

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- [1] Pneumatic connection, opening
- [2] Pneumatic connection, closing
- [3] Marking: pneumatic connection, opening

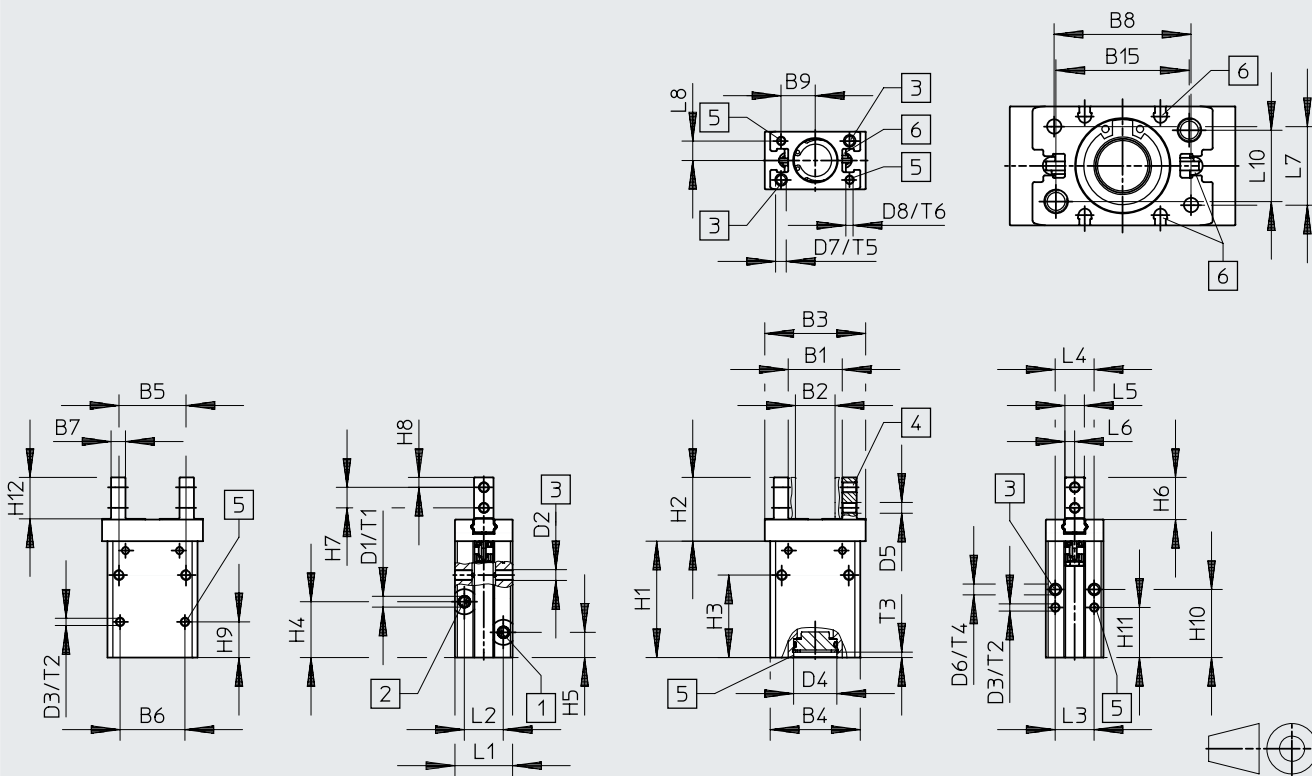
Size	B10	D6	D9	L9	T4	T7
[mm]						
DHPC-6-A-B	14	M2	M3	5	4.5	4
DHPC-6-A-NO/NC-B						

Datasheet

Dimensions

Download CAD data → www.festo.com

DHPG-10...40...S: Pneumatic connection on the side



- [1] Pneumatic connection, opening
- [2] Pneumatic connection, closing
- [3] Threaded hole for mounting the gripper
- [4] Threaded hole for mounting the gripper fingers
- [5] Centring hole
- [6] DHPG-10: T-slot for proximity switch
DHPG-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]				+0.3		±0.02	-0.1	±0.02	±0.02						
DHPG-10-A-S	15	11	28	25	18.6	18	4	19	9.5	19	M3	M3	2	12 H9	M3
DHPG-L-10-A-S	19		34												
DHPG-10-A-NO/NC-S	15		28												
DHPG-L-10-A-NO/NC-S	19		34												
DHPG-16-A-S	19.8	13.8	37.4	32	27	24.4	5	25	12.5	25	M3	M4	3	17 H8	M3
DHPG-L-16-A-S	25.8		46.4												
DHPG-16-A-NO/NC-S	19.8		37.4												
DHPG-L-16-A-NO/NC-S	25.8		46.4												
DHPG-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
DHPG-L-20-A-S	33.6		62.2												
DHPG-20-A-NO/NC-S	25.6		50.2												
DHPG-L-20-A-NO/NC-S	33.6		62.2												
DHPG-25-A-S	32.6	18.6	62.6	50	37.4	33	10	38	19	37	M5	M6	4	26 H8	M5
DHPG-L-25-A-S	40.6		74.6												
DHPG-25-A-NO/NC-S	32.6		62.6												
DHPG-L-25-A-NO/NC-S	40.6		74.6												
DHPG-32-A-S	47.9	25.9	97	60	40	46	12	46	23	46	M5	M6	5	33 H9	M6
DHPG-32-A-NO/NC-S	47.9														
DHPG-40-A-S	60.9	30.9	118	72	54	28	14	56	28	56	M8	M8	5	41 H9	M8
DHPG-40-A-NO/NC-S	60.9														

Datasheet

Size	D6	D7	D8 ∅ H9	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	H12
[mm]												+0.1		+0.1	
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	
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	
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	
DHPC-25-A-S	M6	M6	4	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	
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-40-A-S				86.4	54.5	60.4	47.4					28	49	36	36
DHPC-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-NO/NC-S															
DHPC-40-A-S	48	28	32	32	18	9	32	16	32	8	5	4	13	17	5
DHPC-L-40-A-NO/NC-S															

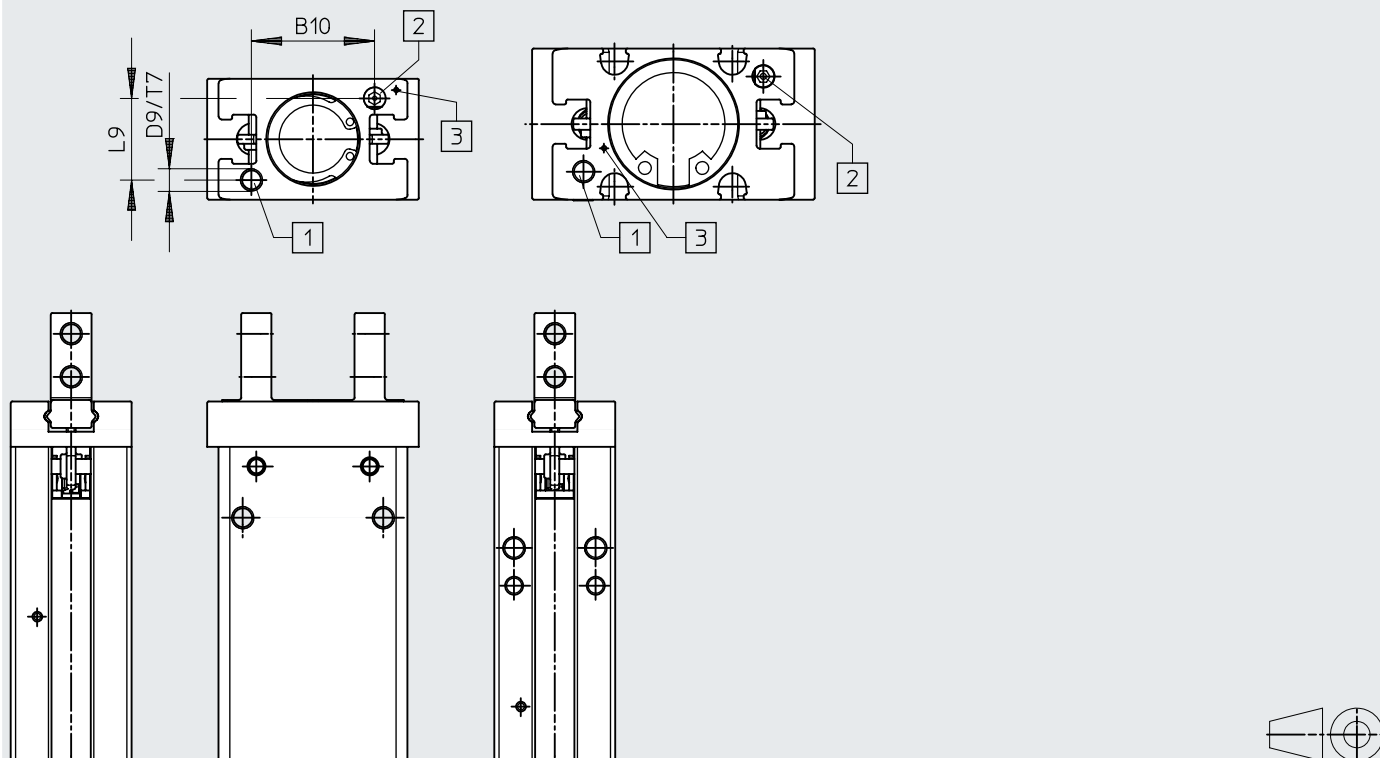
1) Dimension L7 refers exclusively to the distance between the centring hole [5] and the threaded hole for mounting the gripper [3]

Datasheet

Dimensions

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DHPC-10...40-...-B: Pneumatic connection underneath



- [1] Pneumatic connection, opening
- [2] Pneumatic connection, closing
- [3] Marking: pneumatic connection, closing

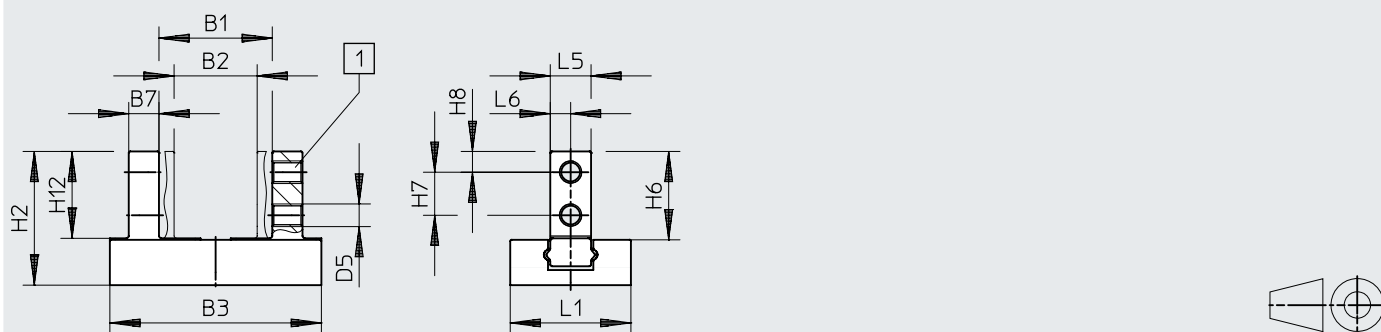
Size	B10	D9	L9	T7
[mm]				
DHPC-10-A-B	16.3	M3	10.8	4
DHPC-L-10-A-B				
DHPC-10-A-NO/NC-B				
DHPC-L-10-A-NO/NC-B				
DHPC-16-A-B	23.8	M3	12.6	4.5
DHPC-L-16-A-B				
DHPC-16-A-NO/NC-B				
DHPC-L-16-A-NO/NC-B				
DHPC-20-A-B	29	M3	16.6	7
DHPC-L-20-A-B				
DHPC-20-A-NO/NC-B				
DHPC-L-20-A-NO/NC-B				
DHPC-25-A-B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

Datasheet

Dimensions – Gripper finger mounting

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DHPC...-A: Standard



[1] 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	M4	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		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

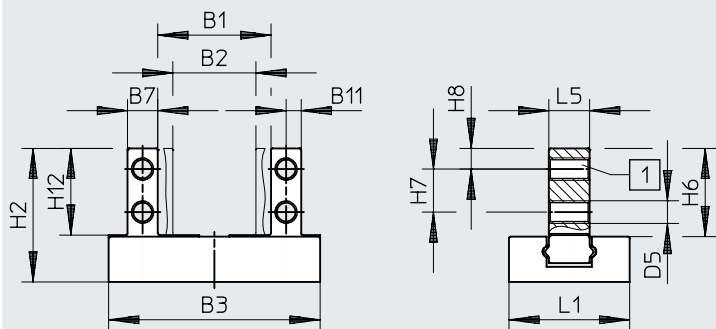
Size	H7	H8	H12	L1	L5	L6
[mm]					-0.05	
DHPC-6-A	5.7	2.9	11.8	10	4.3	2.2
DHPC-10-A		2.8	11.5	16	5.4	2.7
DHPC-L-10-A						
DHPC-16-A	7	4	15	20	7	3.5
DHPC-L-16-A						
DHPC-20-A	9	5	20	26	8.3	4.2
DHPC-L-20-A						
DHPC-25-A	12	6	37.6	33	12	6
DHPC-L-25-A						
DHPC-32-A	14	7	43.5	40	15.2	7.6
DHPC-40-A	17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

Datasheet

Dimensions – Gripper finger mounting

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



[1] 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

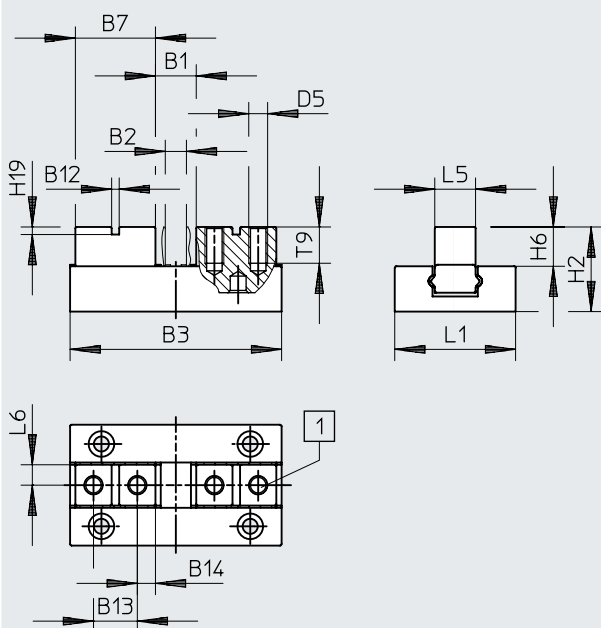
Size	H6	H7	H8	H12	L1	L5
[mm]						-0.05
DHPC-6-A-...-1	12.3	5.7	2.9	11.8	10	4.3
DHPC-10-A-...-1	11.7		2.8	11.5	16	5.4
DHPC-L-10-A-...-1						
DHPC-16-A-...-1	16.3	7	4	15	20	7
DHPC-L-16-A-...-1						
DHPC-20-A-1	21.3	9	5	20	26	8.3
DHPC-L-20-A-1						
DHPC-25-A-1	26.6	12	6	37.6	33	12
DHPC-L-25-A-1				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

Datasheet

Dimensions – Gripper finger mounting

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DHPG-...-A-...-2: Flat gripper fingers



[1] Threaded hole for mounting the gripper fingers

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

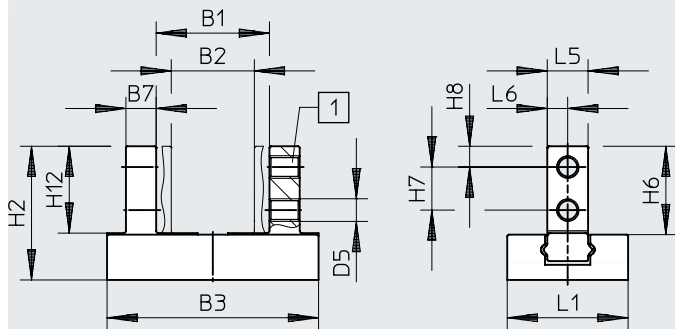
Size	H2	H6	H19	L1	L5	L6	T9
[mm]					-0.05		
DHPC-6-A-...-2	15.1	6.4	–	10	4.3	2.2	4
DHPC-10-A-...-2	11.2	5.2	2	16	5.4	2.7	5
DHPC-L-10-A-...-2							
DHPC-16-A-...-2	16.3	8.3	2.5	20	7	3.5	6
DHPC-L-16-A-...-2			3				
DHPC-20-A-...-2	20	10.5	3	26	8.3	4.2	7
DHPC-L-20-A-...-2							
DHPC-25-A-...-2	24.1	13.1	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

Datasheet

Dimensions – Dust protection

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DHPC-...-A-...-C: With protective dust cap



[1] Threaded hole for mounting the gripper fingers

Datasheet

Size	B1	B2	B3	B7	D5	H2	H6
[mm]				-0.1			
DHPC-10-A-...-C	15	11	28	4	M3	21.3	15.3
DHPC-L-10-A-...-C	19		34				
DHPC-16-A-...-C	19.8	13.8	37.4	5		28.9	20.9
DHPC-L-16-A-...-C	25.8		46.4				
DHPC-20-A-...-C	25.6	15.6	50.2	8	M4	35.7	26.2
DHPC-L-20-A-...-C	33.6		62.2				
DHPC-25-A-...-C	32.6	18.6	62.6	10	M5	43.1	32.1
DHPC-L-25-A-...-C	40.6		74.6				

Size	H7	H8	H12	L1	L5	L6
[mm]					-0.05	
DHPC-10-A-...-C	5.7	2.8	15.1	16	5.4	2.7
DHPC-L-10-A-...-C						
DHPC-16-A-...-C	7	4	19.6	20	7	3.5
DHPC-L-16-A-...-C						
DHPC-20-A-...-C	9	5	24.9	26	8.3	4.2
DHPC-L-20-A-...-C						
DHPC-25-A-...-C	12	6	30.5	33	12	6
DHPC-L-25-A-...-C						

Datasheet

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

Datasheet

Ordering data – Pneumatic connection underneath		
Size	Double-acting	
[mm]	Part no.	Type
25	Standard gripper characteristic	
	Type of mounting for gripper fingers: standard	
	8116852	DHPC-25-A-B
	Type of mounting for gripper fingers: mounting holes on the side	
	8116853	DHPC-25-A-B-1
	Type of mounting for flat gripper fingers	
	8116854	DHPC-25-A-B-2
	Long stroke gripper characteristic	
	Type of mounting for gripper fingers: standard	
	8116870	DHPC-L-25-A-B
	Type of mounting for gripper fingers: mounting holes on the side	
	8116871	DHPC-L-25-A-B-1
	Type of mounting for flat gripper fingers	
	8116872	DHPC-L-25-A-B-2
32	Standard gripper characteristic	
	Type of mounting for gripper fingers: standard	
	8116884	DHPC-32-A-B
	Type of mounting for gripper fingers: mounting holes on the side	
	8116885	DHPC-32-A-B-1
	Type of mounting for flat gripper fingers	
	8116886	DHPC-32-A-B-2
40	Standard gripper characteristic	
	Type of mounting for gripper fingers: standard	
	8116897	DHPC-40-A-B
	Type of mounting for gripper fingers: mounting holes on the side	
	8116898	DHPC-40-A-B-1
	Type of mounting for flat gripper fingers	
	8116899	DHPC-40-A-B-2

Datasheet

Ordering data – Pneumatic connection on the side						
Size [mm]	Double-acting		Single-acting Opening		Closing	
	Part no.	Type	Part no.	Type	Part no.	Type
6	Standard gripper characteristic					
	Type of mounting for gripper fingers: standard					
	8116735	DHPC-6-A-S	8116741	DHPC-6-A-NO-S	8116747	DHPC-6-A-NC-S
	Type of mounting for 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 for 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 for gripper fingers: standard					
	8116753	DHPC-10-A-S	8116759	DHPC-10-A-NO-S	8116765	DHPC-10-A-NC-S
	Type of mounting for 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 for 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 for gripper fingers: standard					
	8116771	DHPC-L-10-A-S	8116777	DHPC-L-10-A-NO-S	8116780	DHPC-L-10-A-NC-S
16	Standard gripper characteristic					
	Type of mounting for gripper fingers: standard					
	8116785	DHPC-16-A-S	8116791	DHPC-16-A-NO-S	8116797	DHPC-16-A-NC-S
	Type of mounting for 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 for 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 for gripper fingers: standard					
	8116803	DHPC-L-16-A-S	8116809	DHPC-L-16-A-NO-S	8116812	DHPC-L-16-A-NC-S
20	Standard gripper characteristic					
	Type of mounting for gripper fingers: standard					
	8116817	DHPC-20-A-S	8116823	DHPC-20-A-NO-S	8116829	DHPC-20-A-NC-S
	Type of mounting for 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 for 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 for 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 for 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 for 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

Datasheet

Ordering data – Pneumatic connection on the side						
Size [mm]	Double-acting		Single-acting Opening		Closing	
	Part no.	Type	Part no.	Type	Part no.	Type
25	Standard gripper characteristic					
	Type of mounting for gripper fingers: standard					
	8116849	DHPC-25-A-S	8116855	DHPC-25-A-NO-S	8116861	DHPC-25-A-NC-S
	Type of mounting for 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 for 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 for 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 for 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 for 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 for gripper fingers: standard					
	8116881	DHPC-32-A-S	8116887	DHPC-32-A-NO-S	8116890	DHPC-32-A-NC-S
	Type of mounting for 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 for 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 for gripper fingers: standard					
	8116894	DHPC-40-A-S	8116900	DHPC-40-A-NO-S	8116903	DHPC-40-A-NC-S
	Type of mounting for 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 for flat gripper fingers					
	8116896	DHPC-40-A-S-2	8116902	DHPC-40-A-NO-S-2	8116905	DHPC-40-A-NC-S-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 gripper								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 backup	None									
	Closing								-NC	
	Opening								-NO	
Pneumatic connection	Underneath								-B	
	On the side								-S	
Dust protection	None									
	–	Protective dust cap				–			-C	
Type of mounting for gripper fingers	Standard									
	Mounting holes on the side								-1	
	Flat gripper fingers							[1]	-2	

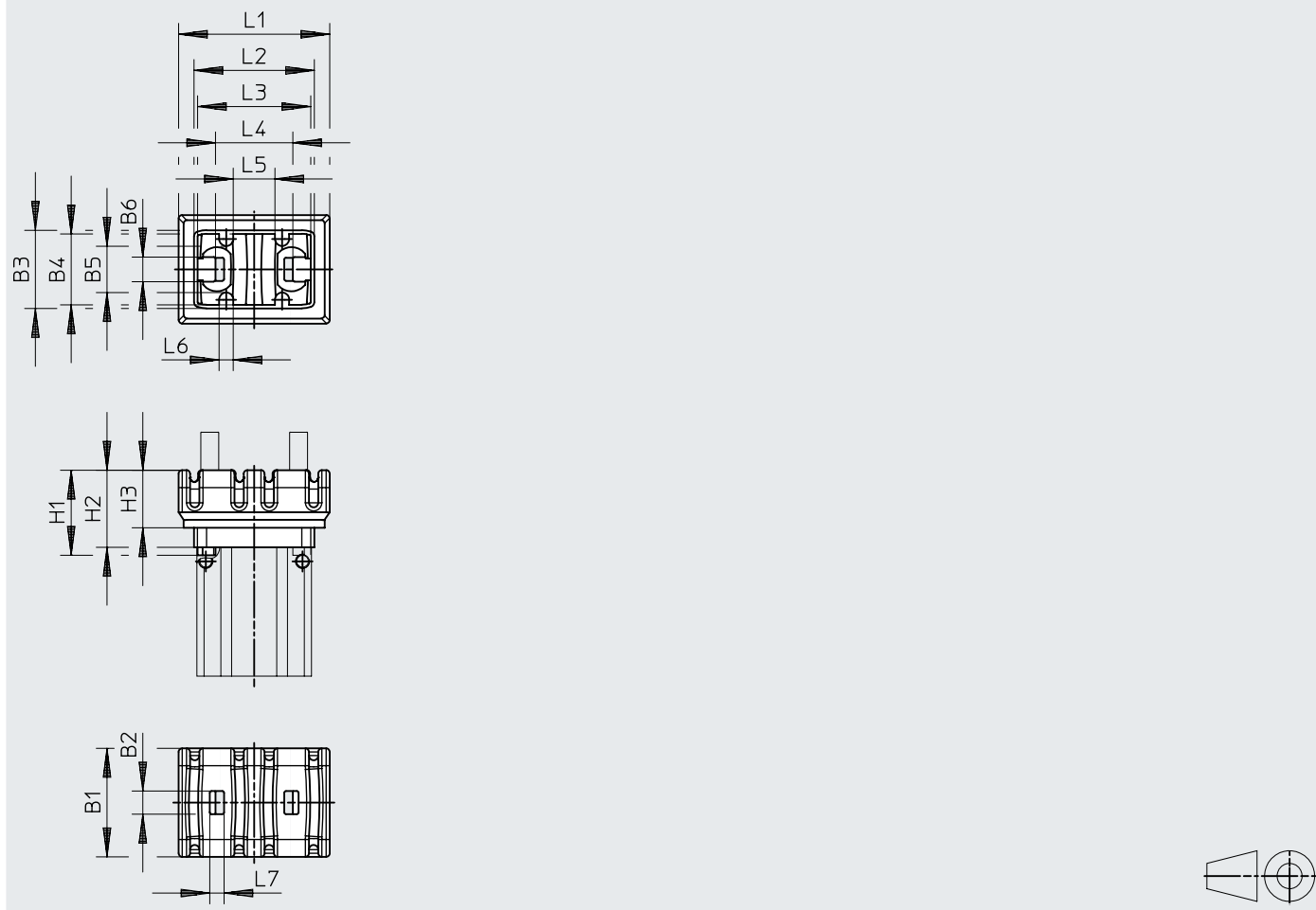
[1] -2 Not with dust protection using protective dust cap C

Accessories

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

Material: NBR

RoHS-compliant



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

Note

The protective dust cap can only be fitted on grippers with variant DHPG...-C.

Accessories

Proximity switch for size 6, 16 ... 40

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

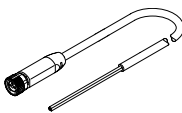
Ordering data – Proximity switch for C-slot, magneto-resistive							Datasheets → Internet: smt
	Type of mounting	Electrical connection, outlet direction of connection	Switching out- put	Cable length [m]	Part no.	Type	
N/O							
	Inserted into the slot lengthwise	Cable, 3-core, crosswise	PNP	2.5	547862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

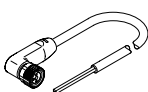
Proximity switch for size 10 ... 40

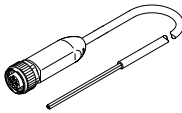
Ordering data – Proximity switch for T-slot, magneto-resistive						Datasheets → Internet: smt
	Type of mounting	Electrical connection outlet direction of connection	Switching out- put	Cable length [m]	Part no.	Type
N/O						
	Inserted in the slot from above, short design	Cable, 3-core, lengthways	PNP	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-core, lengthways	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-core, lengthways	PNP	7.5	574340	SMT-8M-A-PO-24V-E-7.5-OE

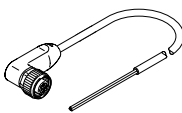
Ordering data – Proximity switch for T-slot, magneto-resistive							Datasheets → Internet: smt
	Type of mounting	Electrical connection, outlet direction of connection	Switching out- put	Cable length [m]	Part no.	Type	
N/O							
	Inserted into the slot lengthwise	Cable, 3-core, crosswise	PNP	2.5	547859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

Accessories

Connecting cables NEBA, straight, M8 connection						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078223	NEBA-M8G3-U-2.5-N-LE3
				5 m	8078224	NEBA-M8G3-U-5-N-LE3

Connecting cables NEBA, angled, M8 connection						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	3	2.5 m	8078230	NEBA-M8W3-U-2.5-N-LE3
				5 m	8078231	NEBA-M8W3-U-5-N-LE3

Connecting cables NEBA, straight, M12 connection						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	3	2.5 m	8078236	NEBA-M12G5-U-2.5-N-LE3
				5 m	8078237	NEBA-M12G5-U-5-N-LE3

Connecting cables NEBA, angled, M12 connection						
	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M12x1, A-coded to EN 61076-2-101	Open end	3	2.5 m	8078245	NEBA-M12W5-U-2.5-N-LE3
				5 m	8078246	NEBA-M12W5-U-5-N-LE3

Accessories

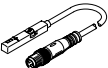
Position transmitter for size 10 ... 40

The position transmitter continuously senses the position of the piston.

It has an analogue output with an output signal that is proportional to the piston position.

Ordering data – Position transmitter for T-slot

Datasheets → Internet: position transmitter

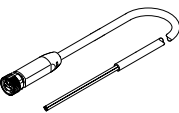
	Position measuring range	Analogue output [V]	Analogue output [mA]	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type
	0 ... 40	0 ... 10	–	Inserted in the slot from above	Plug M8x1, 4-pin, in-line	0.3	553744	SMAT-8M-U-E-0.3-M8D

Ordering data – Position transmitter for T-slot

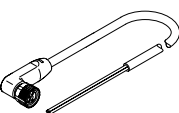
Datasheets → Internet: sdas

	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

Connecting cables NEBA, straight

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	4	2.5 m	8078227	NEBA-M8G4-U-2.5-N-LE4
				5 m	8078228	NEBA-M8G4-U-5-N-LE4

Connecting cables NEBA, angled

	Electrical connection 1, connection technology	Electrical connection 2, connection technology	Electrical connection 2, number of pins/cores	Cable length	Part no.	Type
	M8x1 A-coded to EN 61076-2-104	Open end	4	2.5 m	8078233	NEBA-M8W4-U-2.5-N-LE4
				5 m	8078234	NEBA-M8W4-U-5-N-LE4