

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	

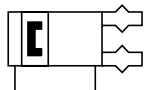
005	Gripping force backup	
	None	
NC	N/O contact	
NO	Opening	
006	Pneumatic connection	
B	Bottom	
S	On the side	
Z	Via mounting spigot	
007	Dust protection	
	None	
C	Protective dust cap	
008	Type of mounting gripper finger	
	None	
1	Mounting holes at the side	
2	Flat gripper fingers	

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							
	Connection via mounting spigot							
	Type of mounting for 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							
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 ¹⁾	[mm]	≤ 0.02						
Max. replacement accuracy	[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) 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

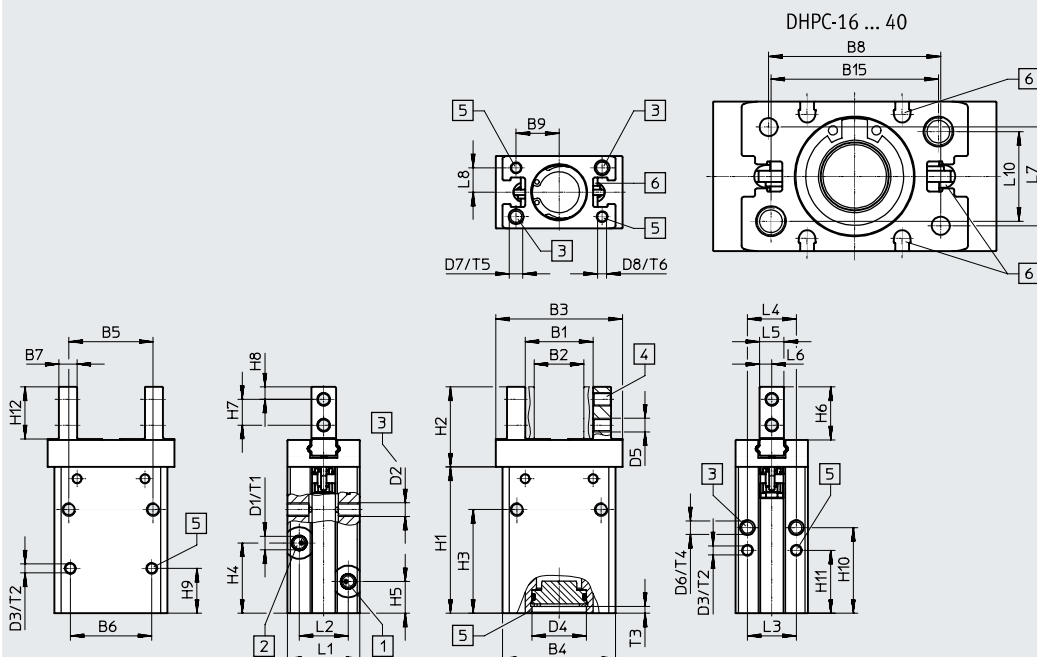
Weight [g]								
Size		6	10	16	20	25	32	40
Double-acting								
DHPC-...-A-S		25	49	110	224	440	778	1396
DHPC-...-A-S-1		25	49	110	224	440	778	1396
DHPC-...-A-S-2		25	49	113	224	437	773	1487
DHPC-...-A-B		25	49	111	224	441	779	1408
DHPC-...-A-B-1		25	49	111	224	441	779	1408
DHPC-...-A-B-2		25	49	114	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-...-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	–	–

Datasheet

Dimensions

Download CAD data → www.festo.com

DHPC-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] 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	M3	M4	3	17 H8	M3
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	4	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-L-32-A-S	47.9														
DHPC-40-A-S	60.9														
DHPC-L-40-A-S	60.9														
DHPC-40-A-NO/NC-S	60.9	30.9	118	72	54	28	14	56	28	56		M8		41 H9	M8