

Radial grippers DHRS

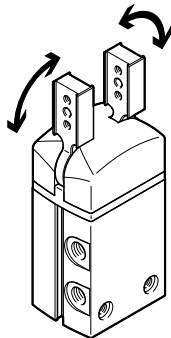
FESTO



Characteristics

At a glance

General



- Lateral gripper jaw support for high torque loads
- Self-centring
- Gripper jaw centring options
- Max. repetition accuracy
- Gripping force retention
- Internal fixed flow control
- Wide range of adaptation options on the drives
- Sensor technology:
 - Adaptable position sensor for the small gripper sizes
 - Integrated proximity switches for the medium and large gripper sizes

Flexible range of applications

- Can be used as a double-acting and single-acting gripper
- Compression spring for supporting or backing up the gripping forces
- Suitable for external and internal gripping



Note

Engineering software for gripper selection → www.festo.com

Position sensing/force control

With position transmitter SMAT-8M, SDAT



Analogue position feedback possible

- Analogue output
 - 0 ... 10 V
 - 4 ... 20 mA

With proportional-pressure regulator VPPM



Infinite adjustment of the gripping force possible

- Setpoint value input
 - 0 ... 10 V
 - 4 ... 20 mA

With proximity switch SMT-8G



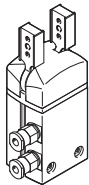
Detecting multiple positions:

- Open
- Closed
- Workpiece gripped

Characteristics

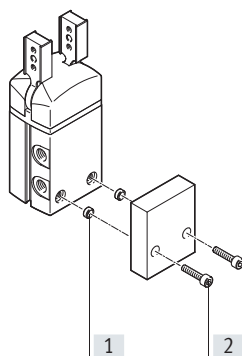
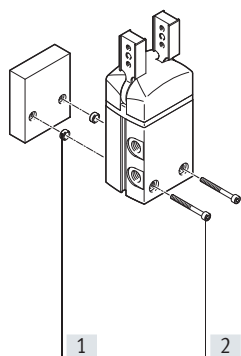
Supply ports

At the side

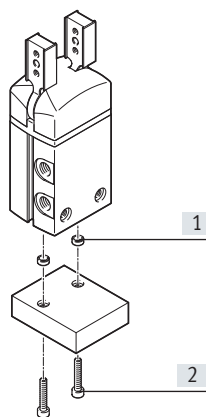


Mounting options

At the side

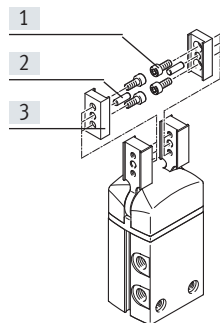


From underneath



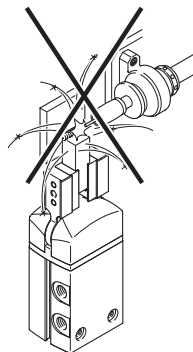
- [1] Centring sleeves
[2] Retaining screws

Mounting options for external gripper fingers

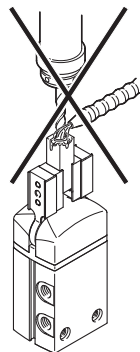


- [1] Retaining screws
[2] Centring pins
[3] Gripper finger

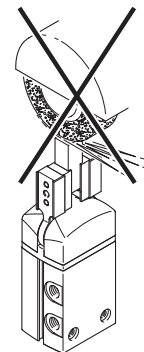
Note
These grippers are not designed for the following or similar applications:



- Welding spatter



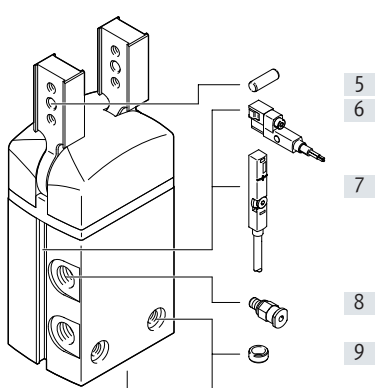
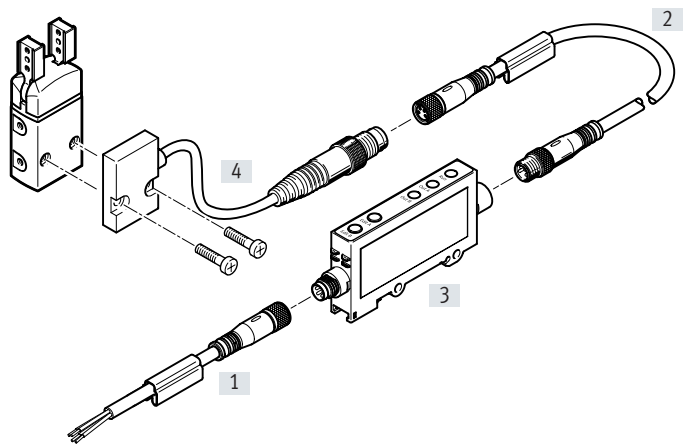
- Machining
- Aggressive media



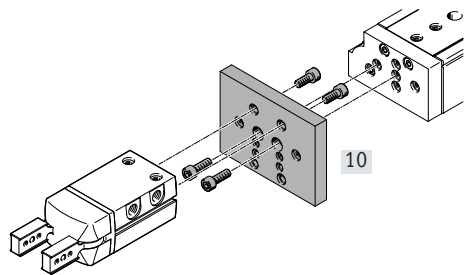
- Grinding dust

Peripherals overview

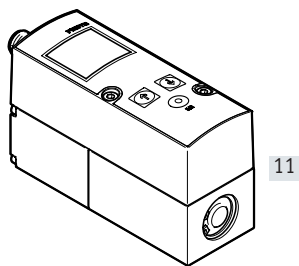
Peripherals overview	
DHRS-10	DHRS-16 ... 40



System product for handling and assembly technology



Proportional-pressure regulator VPPM



Peripherals overview

Accessories				
	Type	For size	Description	→ Page/Internet
[1]	Connecting cable NEBU	10	• Connection between signal converter and controller	19
[2]	Connecting cable NEBU	10	• Connection between position sensor and signal converter	19
[3]	Signal converter SVE4	10	• For evaluating signals for position sensor SMH-S1	19
[4]	Position sensor SMH-S1	10	• Adaptable sensors for sensing the piston position, can be integrated	19
[5]	Centring pin	10... 40	• For centring the gripper fingers on the gripper jaws	–
[6]	Proximity switch SMT-8G	16 ... 40	• For sensing the piston position • Proximity switch does not project past the housing at the bottom	20
[7]	Position transmitter SMAT-8M	16 ... 40	• Continuously senses the position of the piston. It has an analogue output with an output signal relative to the piston position.	20
	Position transmitter SDAT	32, 40		
[8]	Push-in fitting QS	10... 40	• For connecting compressed air tubing with standard O.D.	qs
[9]	Centring sleeve ZBH	10... 40	• For centring the gripper during mounting • 2 centring sleeves included in the scope of delivery of the gripper	19
[10]	Adapter kit DHAA, HMSV, HAPG, HAPS, HMVA	10... 40	• Connecting plate between drive and gripper	16
[11]	Proportional-pressure regulator VPPM	10... 40	• For infinite adjustment of the gripping force	vppm

Type codes

001	Series	
DHRS	Radial gripper	

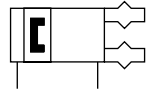
002	Size	
10	10	
16	16	
25	25	
32	32	
40	40	

003	Position sensing	
A	For proximity sensor	
004	Gripping force backup	
	None	
NC	N/O contact	

Data sheet

Function

Double-acting
DHRS-...A



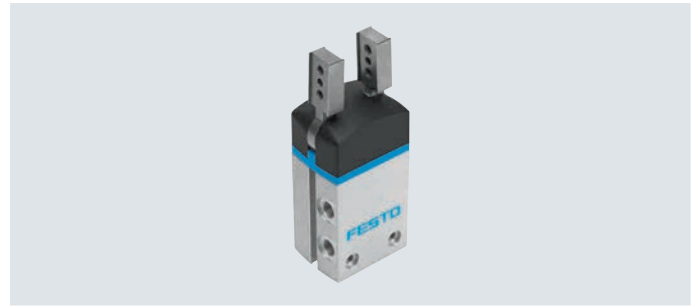
- Size
10 ... 40 mm
- Opening angle
180°



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Function variants

Single-acting or
with gripping force retention ...
... closing DHRS-...-NC



General technical data					
Size	10	16	25	32	40
Design	Force-guided motion sequence				
Mode of operation	Double-acting				
Gripper function	Radial				
Guide	Plain-bearing guide				
Gripping force retention	–	NC	NC	NC	NC
Number of gripper jaws	2				
Opening angle per gripper jaw	[°]	90			
Pneumatic connection	M3	M3	M5	G1/8	G1/8
Repetition accuracy ¹⁾	[mm]	≤ 0.1			
Max. interchangeability	[mm]	≤ ±0.2			
Max. operating frequency	[Hz]	4			2
Rotational symmetry	[mm]	< Ø 0.2			
Position sensing	Via position sensor		Via proximity switch, position transmitter		
Type of mounting	With through-hole and centring sleeve				
	With female thread and centring sleeve				
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

Operating and environmental conditions					
Size	10	16	25	32	40
Min. operating pressure					
DHRS-...A [bar]	2				
DHRS-...A-NC [bar]	–	4			
Max. operating pressure [bar]	8				
Operating medium	Compressed air to ISO 8573-1:2010 [7:4:4]				
Note on operating/pilot medium	Lubricated operation possible (in which case lubricated operation will always be required)				
Ambient temperature ¹⁾ [°C]	+5 ... +60				
Corrosion resistance CRC ²⁾	1				

1) Note operating range of proximity switches

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

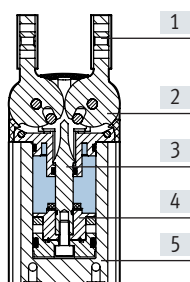
Low corrosion stress. Dry internal application or transport and storage protection. Also applies to parts behind coverings, in the non-visible interior area, and parts which are covered in the application (e.g. drive trunnions).

Weight [g]					
Size	10	16	25	32	40
DHRS-...A	44	114	270	480	829
DHRS-...A-NC	–	118	277	490	844

Data sheet

Materials

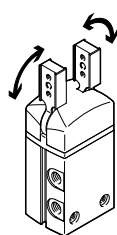
Sectional view



Radial grippers

[1]	Gripper jaws	High-alloy stainless steel
[2]	Cover cap	Polyamide
[3]	Link	Tempered steel
[4]	Piston	Polyacetal
[5]	Housing	Hard anodised wrought aluminium alloy
–	Seals	NBR
–	Note on materials	Free of copper and PTFE RoHS-compliant

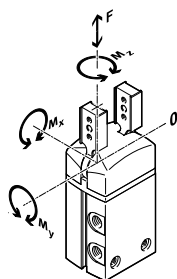
Total gripping torque [Ncm] at 6 bar



The gripping torque is not constant across the opening angle
→ page 12

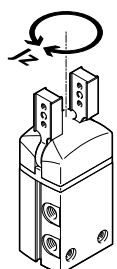
Size		10	16	25	32	40
DHRS-...-A	Opening	21	62	233	423	725
	Closing	15	55	215	390	660

Static 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 weight forces created by the workpiece or external gripper fingers and acceleration forces during movement.
The zero coordinate line (gripper jaw guide) must be taken into consideration when calculating the torques.

Size		10	16	25	32	40
Max. permissible force F_z	[N]	30	40	75	120	200
Max. permissible torque M_x	[Nm]	0.8	1.3	3.2	6.2	14
Max. permissible torque M_y	[Nm]	0.8	1.3	3.2	6.2	14
Max. permissible torque M_z	[Nm]	0.8	1.3	3.2	6.2	14

Mass moment of inertia [kgm²×10⁻⁴]

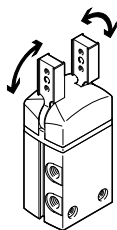
Mass moment of inertia of the radial gripper in relation to the central axis, without external gripper fingers, with no load.

Size		10	16	25	32	40
DHRS-...-A		0.03	0.14	0.69	1.66	4.18
DHRS-...-A-NC		–	0.15	0.71	1.69	4.24

Data sheet

Opening and closing times [ms] at 6 bar

Without external gripper fingers

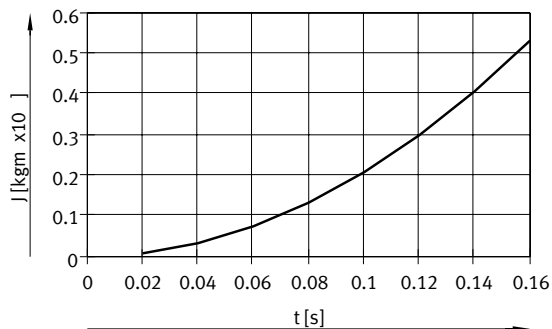


The indicated opening and closing times [ms] were measured at room temperature at an operating pressure of 6 bar with the gripper horizontally mounted and without additional gripper fingers (mean values shown). The grippers must be throttled for greater applied loads. Opening and closing times must then be adjusted accordingly.

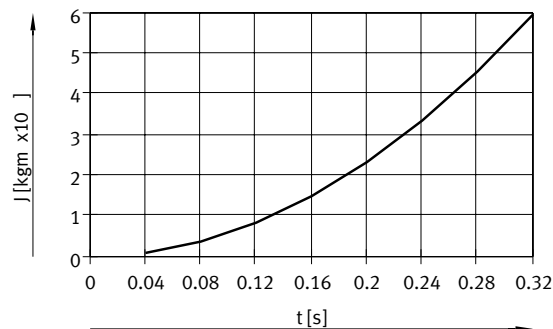
Size		10	16	25	32	40
Without external gripper fingers						
DHRS-...-A	Opening	35	61	102	111	113
	Closing	91	63	105	119	142
DHRS-...-A-NC	Opening	–	75	150	131	151
	Closing	–	43	96	88	110

Opening and closing times t to be set at 6 bar as a function of mass moment of inertia of the gripper fingers

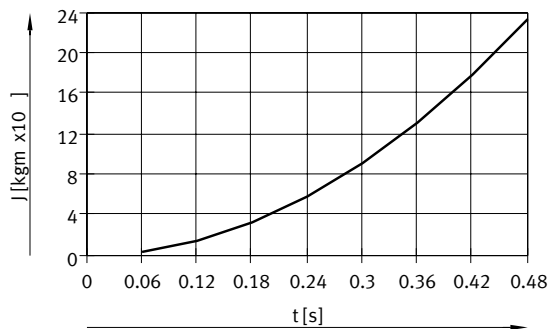
DHRS-10



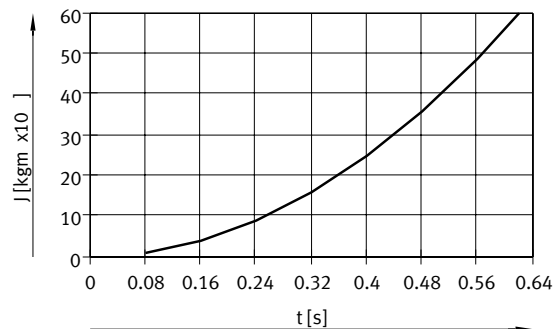
DHRS-16



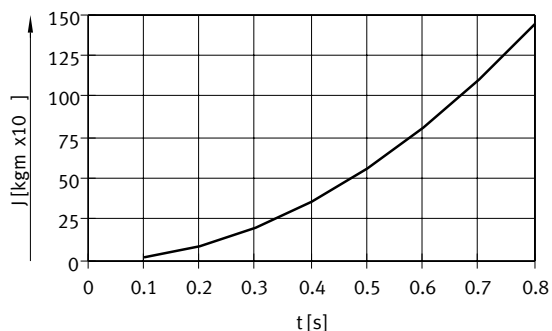
DHRS-25



DHRS-32



DHRS-40



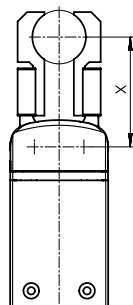
Data sheet

Gripping force F_H per gripper jaw as a function of 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.

The gripping torque is not constant across the opening angle

→ page 12.

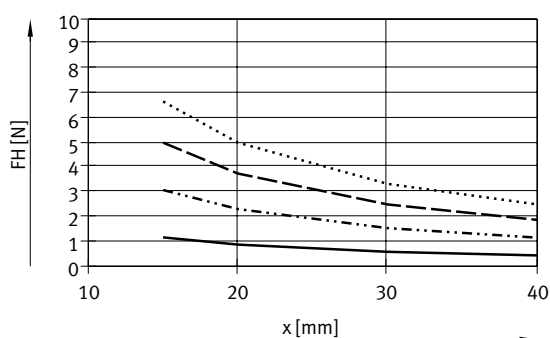


Note
Engineering software
for gripper selection
→ www.festo.com

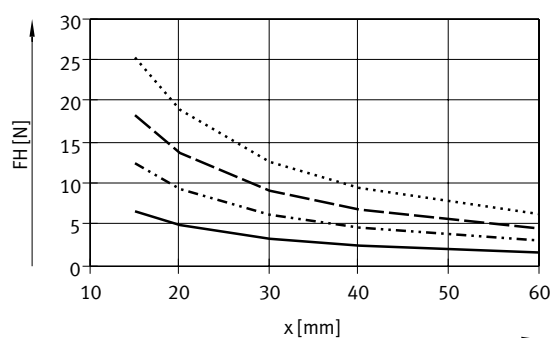
— 2 bar
- - - 4 bar
- - - 6 bar
..... 8 bar

External gripping (closing)

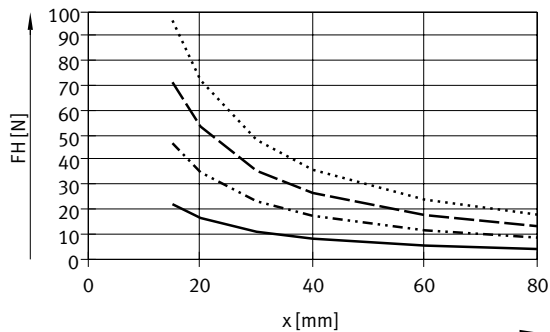
DHRS-10



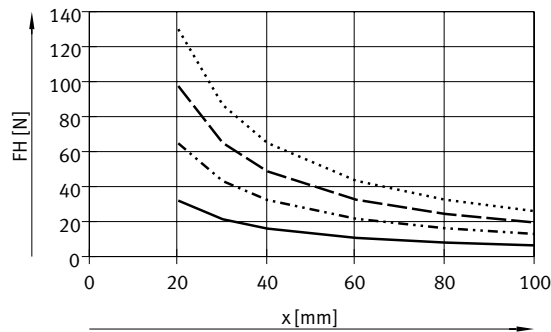
DHRS-16



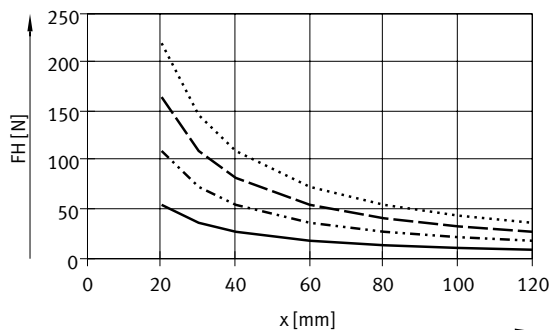
DHRS-25



DHRS-32



DHRS-40



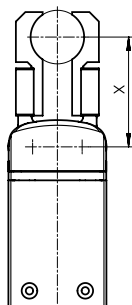
Data sheet

Gripping force F_H per gripper jaw as a function of operating pressure and lever arm x

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→ page 12.

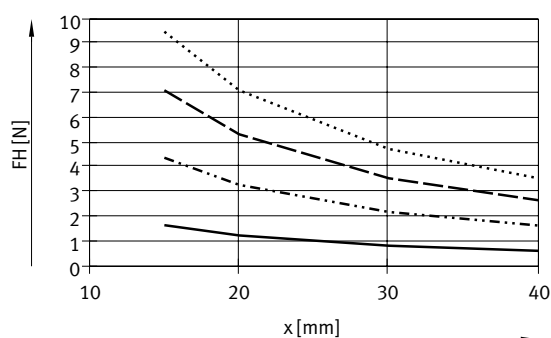


 **Note**
Engineering software
for gripper selection
→ www.festo.com

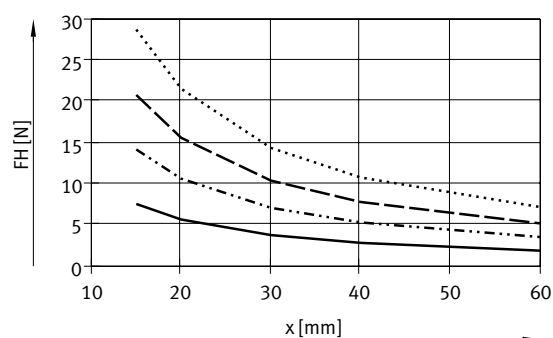
— 2 bar
- - - 4 bar
- - - 6 bar
..... 8 bar

Internal gripping (opening)

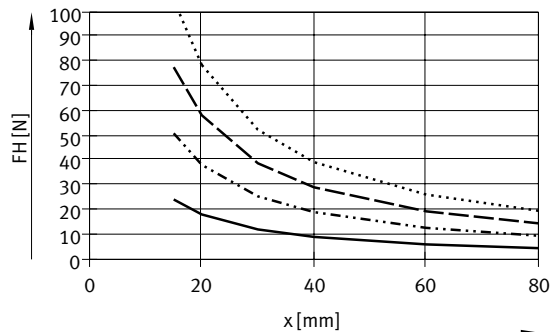
DHRS-10



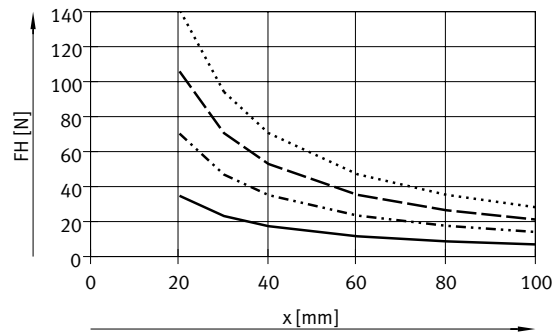
DHRS-16



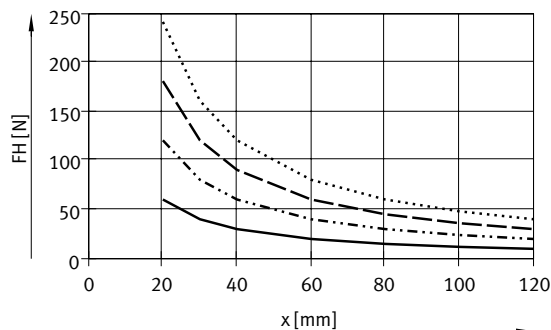
DHRS-25



DHRS-32



DHRS-40



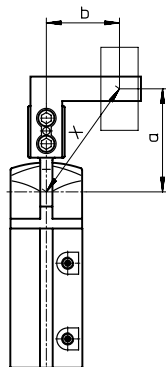
Data sheet

Gripping force F_H per gripper jaw at 6 bar as a function of lever arm x and eccentricity a and b

The following formula must be used to calculate the lever arm x with eccentric gripping:

$$x = \sqrt{a^2 + b^2}$$

The gripping force F_H can then be read from the graphs (→ page 10/11) using the calculated value x .



Calculation example

Given:

Distance $a = 25$ mm

Distance $b = 20$ mm

To be calculated:

The gripping force at 6 bar

with a DHRS-16,

used as an external gripper

Approach:

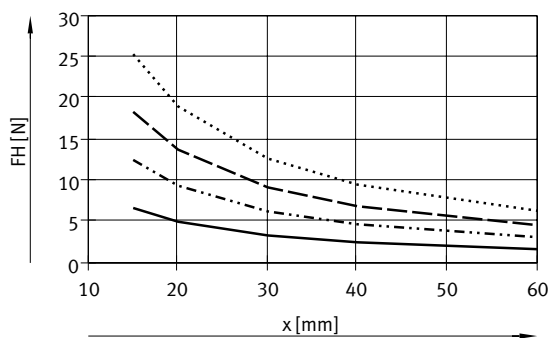
Calculating the lever arm x

$$x = \sqrt{25^2 + 20^2}$$

$$x = 32$$
 mm

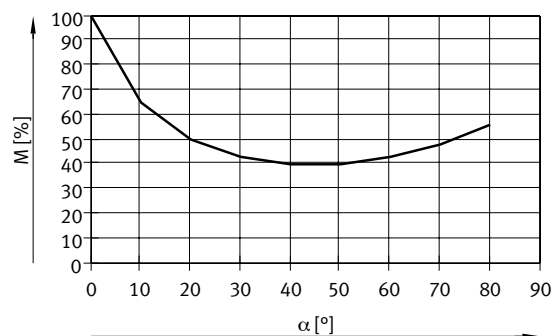
The graph

(→ page 10) gives a value for the gripping force of $F_H = 8$ N.

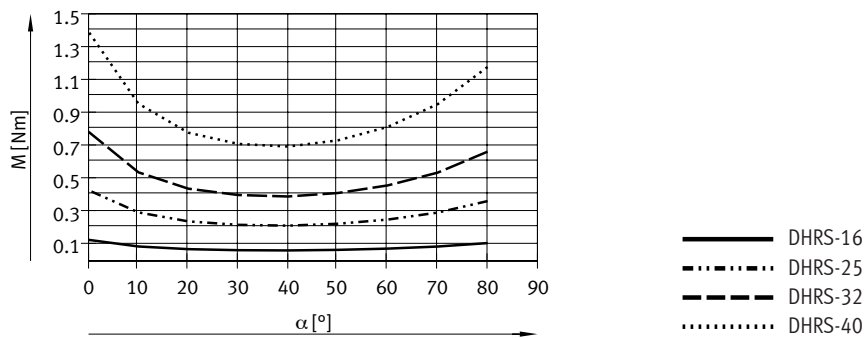


Torque curve M as a function of opening angle α

The drive principle of the gripper jaws means that the torque is not constant across the opening angle. The percentage of torque available in each case can be determined from the graph. Opening angle of 0° means: parallel gripper jaw position



Data sheet

Spring torque M_F as a function of opening angle α Determining the actual gripping torques $M_{Grtotal}$ for DHRS-...-NC as a function of application

The radial gripper with integrated spring, type DHRS-...-NC (closing gripping force retention), can be used as:

- Single-acting gripper
- Gripper with supplementary gripping force
- Gripper with gripping force retention

To calculate the available gripping torque $M_{Grtotal}$ (per gripper jaw), the data from the graphs for gripping force F_H (→ page 10/11),

$$M_{Gr} = F_H \cdot x \cdot M \text{ [%]}$$

torque curve M (→ page 12) and
spring torque M_F (→ page 13) must be combined accordingly.

M_{Gr} Gripping torque

F_H Gripping force

x Lever arm

M Torque curve

Application

Single-acting

- Gripping with spring force:
 $M_{Grtotal} = M_F$
- Gripping with pressure force:
 $M_{Grtotal} = M_{Gr} - M_F$

Supplementary gripping force

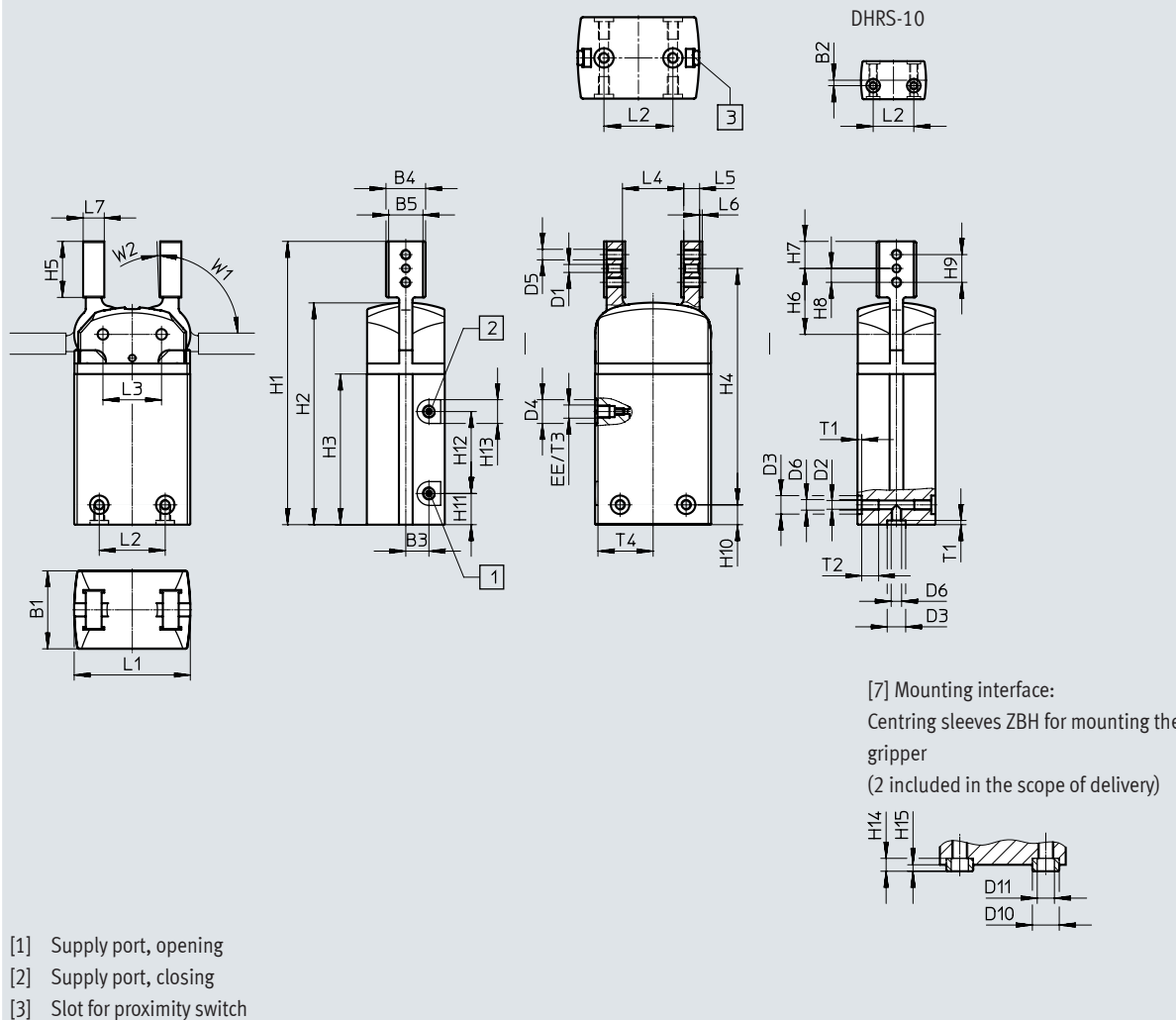
- Gripping with pressure and spring force:
 $M_{Grtotal} = M_{Gr} + M_F$

Gripping force retention

- Gripping with spring force:
 $M_{Grtotal} = M_F$

Data sheet

Dimensions

Download CAD data → www.festo.com

Size	B1	B2 ¹⁾	B3	B4	B5 +0.03/ +0.01	D1 ∅ H8	D2 ∅ +0.1	D3 ∅ H8/h7	D4 ∅	D5	D6
[mm]	±0.05										
10	14	2	2	8.5	6.5	2	2.4	5	7	M2.5	M3
16	19	–	5.8	14	10	2	2.5	5	–	M3	M3
25	29.5	–	8.75	15	13	3	3.3	7	9	M4	M4
32	38	–	11	16	14	4	5.1	9	15	M5	M6
40	49	–	11	24	20	5	6.4	12	15	M6	M8

Size	D10 ∅ h7	D11 ∅	EE	H1	H2	H3	H4 ±0.25	H5 ±0.2	H6 ±0.05	H7 –0.1
[mm]										
10	5	3.2	M3	60.8	46	30.8	42.25	13.8	14.95	6.25
16	5	3.2	M3	88.2	70.5	49	73.7	16.5	19.7	7
25	7	5.3	M5	107.2	84	57	89.45	21.2	24.95	10.25
32	9	6.4	G1/8	128.5	96.2	65	103.5	29.5	32	14
40	12	10.3	G1/8	140	108.4	71.5	108.7	29.5	33.7	13.8

1) Tolerance for centring hole ±0.02 mm; tolerance for thread ±0.1 mm

Data sheet

Size	H8	H9	H10 ²⁾	H11	H12	H13	H14	H15	L1	L2 ¹⁾	L3
[mm]							-0.2	-0.3	±0.05		±0.02
10	4	8	12.3	8.8	16	7	2.4	1.2	24	15	12.4
16	4	8	7.5	12.25	23	7	2.4	1.2	33.4	16	17
25	5.25	10.5	7.5	11.8	31	9	3	1.4	44	25	22.2
32	7	14	11	20	25	15	4	1.9	51	29	25.8
40	8	16	17.5	9	46	15	5	2.4	59	33	30

Size	L4	L5	L6	L7	T1	T2	T3	T4	W1	W2
[mm]		±0.05			+0.1	+1	+0.5		±2°	+3°
10	12	4	0.5	5	1.2	through	3.5	11.6	90	2
16	21	4	1	6	1.2	5.8	4.5	16	90	2
25	23.2	6	1	8	1.6	6.4	4.5	21	90	2
32	24.8	8	1	10	2.1	12.9	6.5	24	90	2
40	29.6	10	1	12	2.6	13.4	6	28.4	90	2

1) Tolerance for centring hole ±0.02 mm; tolerance for thread ±0.1 mm

2) Tolerance for centring hole ±0.05 mm; tolerance for thread ±0.1 mm

Ordering data

Size	Double-acting without compression spring		Single-acting or with gripping force retention	
			Closing	
[mm]	Part no.	Type	Part no.	Type
10	1310159	DHRS-10-A	-	
16	1310160	DHRS-16-A	1310161	DHRS-16-A-NC
25	1310162	DHRS-25-A	1310163	DHRS-25-A-NC
32	1310164	DHRS-32-A	1310165	DHRS-32-A-NC
40	1310166	DHRS-40-A	1310167	DHRS-40-A-NC

Accessories

Adapter kit
HMSV, HAPG, DHAA

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

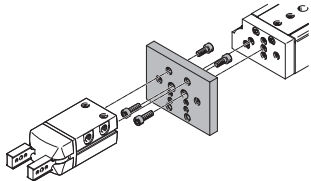
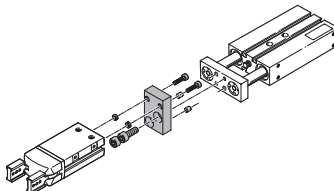
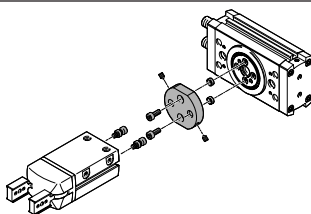


Note

The kit includes the individual mounting interface as well as the necessary mounting material.

Permissible drive/gripper combinations with adapter kit

Download CAD data → www.festo.com

Combination	Drive size	Gripper size	Mounting option		Adapter kit CRC ¹⁾	Part no.	Type
							
DGSL/DHRS	DGSL	DHRS			HMSV		
	8, 10	10	■	■	2	548784	HMSV-54
	12, 16	16	■	■		548785	HMSV-55
	20, 25	25, 32	■	■		548786	HMSV-56
DPZ/DHRS	DPZ	DHRS			HAPG		
	10, 16	16	■	—	2	163250	HAPG-1
	16	25	■	—		163251	HAPG-2
	20	25	■	—		163252	HAPG-3
	25, 32	32	■	—		163253	HAPG-4
DRRD/DHRS	DRRD	DHRS			DHAA		
	8	10	■	■	2	2816591	DHAA-G-Q11-8-B2/B3-10
	10	10	■	■		2816068	DHAA-G-Q11-10-B2/B3-10
	12	10	■	■		2814790	DHAA-G-Q11-12-B2/B3-10
	12	16	■	■		2811183	DHAA-G-Q11-12-B2/B3-16
	16	16	■	■		1979085	DHAA-G-Q11-16-B2/B3-16
	16	25	■	■		1978889	DHAA-G-Q11-16-B2/B3-25
	20	25	■	■		1978443	DHAA-G-Q11-20-B2/B3-25
	20	32	■	■		1979912	DHAA-G-Q11-20-B2/B3-32
	25	25	■	■		1801802	DHAA-G-Q11-25-B2/B3-25
	25	32	■	■		1802969	DHAA-G-Q11-25-B2/B3-32
	32	32	■	■		1979992	DHAA-G-Q11-32-B2/B3-32
	32	40	■	■		1980014	DHAA-G-Q11-32-B2/B3-40
	35, 40	40	■	■		1980059	DHAA-G-Q11-3 5/40-B2/B3-40

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

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

Accessories

Adapter kit
HAPG, DHAA

Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant



Note

The kit includes the individual mounting interface as well as the necessary mounting material.

Permissible drive/gripper combinations with adapter kit					Download CAD data → www.festo.com		
Combination	Drive size	Gripper size	Mounting option		Adapter kit CRC ¹⁾	Part no.	Type
HSP/DHRS	HSP	DHRS			HAPG		
	12	10	■	—	2	192709	HAPG-60-S1
						540881	HAPG-70-B
	16	10	■	—		192706	HAPG-37-S1
						540882	HAPG-71-B
	16	16	■	—		192705	HAPG-36-S1
						540882	HAPG-71-B
	25	16	■	—		192705	HAPG-36-S1
						540883	HAPG-72-B
	25	25	■	—		193922	HAPG-37-S4
						540883	HAPG-72-B
HSW/DHRS	HSW	DHRS			HAPG		
	12, 16	10	■	—	2	192706	HAPG-37-S1
						540882	HAPG-71-B
	12, 16	16	■	—		192705	HAPG-36-S1
						540882	HAPG-71-B
DSM/DHRS	DSM-...-FW	DHRS			HAPG		
	6, 8, 10	10	■	■	2	187568	HAPG-34
	DSM-...	DHRS					
	12	16	■	■		163266	HAPG-17
	16	16	■	■		163267	HAPG-18
	16	25	■	■		163268	HAPG-19
	25	25	■	■		163269	HAPG-20
	25	32	■	■		163270	HAPG-21
	32	32	■	■		163271	HAPG-22
DSM-...-HD/DHRS	DSM-...-HD	DHRS			DHAA		
	12	16	■	■	2	8072157	DHAA-G-R3-12-B18-10
	12	10	■	■		8072172	DHAA-G-R3-12-B20-10
	16	16	■	■		8071917	DHAA-G-R3-16-B18-10
	16	25	■	■		8079173	DHAA-G-R3-16-B18-16
	25	25	■	■		8071956	DHAA-G-R3-25-B18-16
	25	32	■	■		8079201	DHAA-G-R3-25-B20-32
	32	32	■	■		8079208	DHAA-G-R3-32-B18-25
	32	40	■	■		8079212	DHAA-G-R3-32-B20-40

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

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

Accessories

Adapter kit
HAPG, HMSV, DHAA

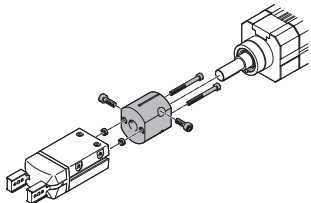
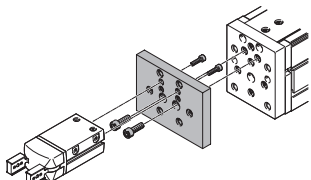
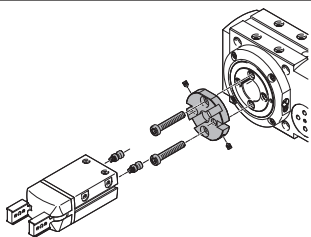
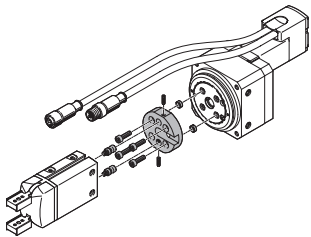
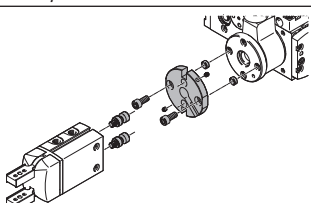
Material:
Wrought aluminium alloy
Free of copper and PTFE
RoHS-compliant

**Note**

The kit includes the individual mounting interface as well as the necessary mounting material.

Permissible drive/gripper combinations with adapter kit

Download CAD data → www.festo.com

Combination	Drive size	Gripper size	Mounting option		Adapter kit CRC ¹⁾	Part no.	Type
							
DSL/DHRS	DSL	DHRS			HAPG		
	16	16	■	■	2	163266	HAPG-17
	20	16	■	■		163267	HAPG-18
	20	25	■	■		163268	HAPG-19
	25	25	■	■		163269	HAPG-20
	25	32	■	■		163270	HAPG-21
	32	32	■	■		163271	HAPG-22
EGSL/DHRS	EGSL	DHRS			HMSV		
	35	10	■	■	2	548784	HMSV-54
						1088262	HMSV-70
	45, 55	16	■	■		548785	HMSV-55
	75	25, 32	■	■		548786	HMSV-56
ERMB/DHRS	ERMB	DHRS			HAPG		
	20	25	■	■	2	184479	HAPG-SD2-3
	25	25	■	■		184482	HAPG-SD2-6
	20	32	■	■		184480	HAPG-SD2-4
	25	32	■	■		184483	HAPG-SD2-7
	32	32	■	■		184485	HAPG-SD2-9
	32	40	■	■		184486	HAPG-SD2-10
ERMO/DHRS	ERMO	DHRS			DHAA		
	12	16	■	■	2	8072157	DHAA-G-R3-12-B18-10
	12	10	■	■		8072172	DHAA-G-R3-12-B20-10
	16	16	■	■		8071917	DHAA-G-R3-16-B18-10
	16	25	■	■		8079173	DHAA-G-R3-16-B18-16
	25	25	■	■		8071956	DHAA-G-R3-25-B18-16
	25	32	■	■		8079201	DHAA-G-R3-25-B20-32
	32	32	■	■		8079208	DHAA-G-R3-32-B18-25
	32	40	■	■		8079212	DHAA-G-R3-32-B20-40
EHMB/DHRS	EHMB	DHRS			HAPG		
	20	32	■	■	2	184485	HAPG-SD2-9
	20	40	■	■		184486	HAPG-SD2-10
	25, 32	40	■	■		526027	HAPG-SD2-21

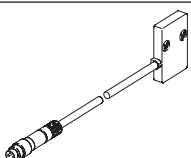
1) Corrosion resistance class CRC 2 to Festo standard FN 940070

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

Accessories

Ordering data							
	For size [mm]	Description	Weight [g]	Part no.	Type	PU ¹⁾	
Centring sleeve ZBH							Data sheets → Internet: zbh
	10, 16	For centring the gripper during mounting	1	189652	ZBH-5	10	
	25		1	186717	ZBH-7		
	32		1	8137184	ZBH-9-B		
	40		1	8137185	ZBH-12-B		

1) Packaging unit

Ordering data				
Type	For size	Weight [g]	Part no.	Type
Position sensor SMH-S1			Data sheets → Internet: smh-s1	
	10	20	175712	SMH-S1-HGR10

Signal converter SVE4 for position sensor SMH-S1

- Converts analogue signals into switching points
- Switching function freely programmable with teach-in
- Threshold value, hysteresis or window comparator

Ordering data							
Type	For size	Input connection	Output connection	Switching output	Weight [g]	Part no.	Type
Signal converter SVE4							Data sheets → Internet: sve4
	10	Socket M8x1, 4-pin	Plug M8x1, 4-pin	2x PNP	19	544216	SVE4-HS-R-HM8-2P-M8
				2x NPN		544219	SVE4-HS-R-HM8-2N-M8

Ordering data – Connecting cables						Data sheets → Internet: nebu
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Type	
Connection between position sensor and signal converter						
	Straight socket, M8x1, 4-pin	Straight plug M8x1, 4-pin	2.5	554035	NEBU-M8G4-K-2.5-M8G4	
Connection between signal converter and controller						
	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	

Accessories

Proximity switch for size 16 ... 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 contact						
	Insertable 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
	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

Position transmitter

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 transmitter for T-slot

Data sheets → Internet: position transmitter

	For size	Position measuring range	Analogue output [V]	[mA]	Type of mounting	Electrical connection	Cable length [m]	Part no.	Type
	16 ... 40	0 ... 40	0 ... 10	–	Insertable in the slot from above	Plug M8x1, 4-pin, in-line	0.3	553744	SMAT-8M-U-E-0,3-M8D
	32, 40	0 ... 50	–	4 ... 20	Insertable in the slot from above	Plug M8x1, 4-pin, in-line	0.3	1531265	SDAT-MHS-M50-1L-SA-E-0.3-M8

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

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