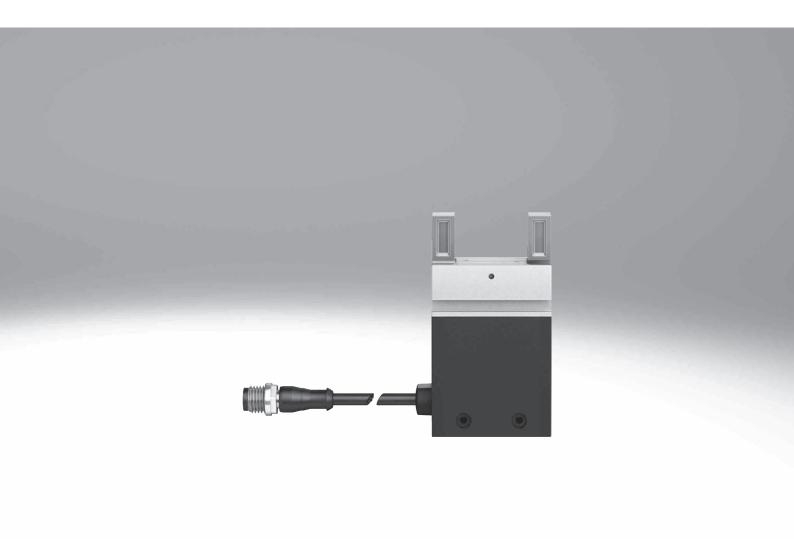
Parallel grippers EHPS, electric

FESTO



Characteristics

At a glance

Electrically actuated

- Minimal installation effort no valves, tubing or air preparation required
- · Low noise pollution
- Electrical safety to DIN EN 61010-1:2010

Actuation

- Via digital I/O or IO-Link
- No external controller required
- Connection options:
 - For digital I/O: connection via terminal strip to terminal CPX or controller CECC
 - For IO-Link: plug for direct connection to an IO-Link master

Adjustable gripping force (4 settings)

- Adaptation of the gripping force to sensitive workpieces
- Simple adjustment
- Very powerful

Sensing option of gripper jaws

- For digital I/O: direct position sensing possible via external sensors on the gripper head
- For IO-Link: integrated position sensors for sensing the gripper jaws

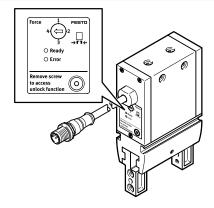
IO-Link

Adjusting the gripping force For gripper with digital I/O

The speed for the gripping force of the gripper can be adjusted using the rotary switch. The switch has four settings and therefore four force levels, with no intermediate levels.

The speed has an effect on the gripping force and is not linearly adjustable.

- Setting 1: approx. 50% of the max. force
- Setting 2: approx. 70% of the max. force
- Setting 3:
- approx. 85% of the max. force
- Setting 4: max. force

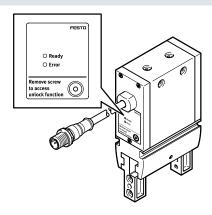


For grippers with IO-Link

The gripping force is set via an IO-Link master. The adjustment has four settings and therefore four force levels. There are no intermediate levels. (Values for settings 1 to 4 as for I/O version).

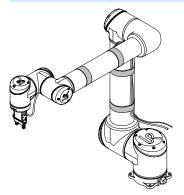
There are also three gripping modes to choose from. This allows a shorter gripping time in the application.

- External gripping:
 - The object is gripped from the outside. The gripper jaws move with the specified gripping force/speed during the gripping process. On releasing, the gripper jaws move at the maximum speed
- Internal gripping:
 - The object is gripped from the inside. The gripper jaws move with the specified gripping force/speed during the gripping process. On releasing, the gripper jaws move at the maximum speed
- Universal gripping:
 - The specified gripping force is used in both directions of movement during the gripping process



Characteristics

Fast and intuitive integration on a robot arm

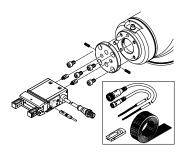


The gripper with robot connection EHPS-...-RA1 enables fast integration on a lightweight robot.

In order to mount the gripper on the robot arm, an adapter plate and the necessary mounting accessories are included in the kit, in addition to the gripper itself. It also contains the required proximity switches and a software plug-in (on a USB stick).

The plug-in is a simple means for integrating the gripper directly into the program sequence of the robot control system (\rightarrow page 5).

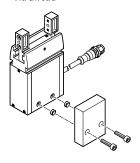
So as not to overload the internal cables of the Universal Robot, the connecting cables must be routed externally on the Universal Robot and secured using the included velcro strips.



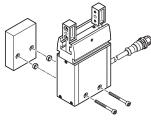
Mounting options

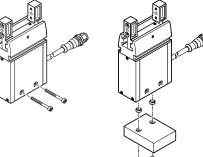
At the side

Via thread



Via through-hole



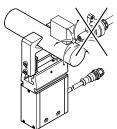


On the front

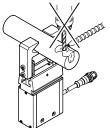


Note

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

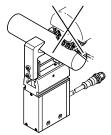


• Welding spatter



Machining

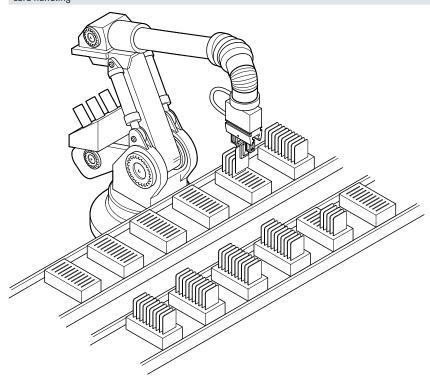
· Aggressive media



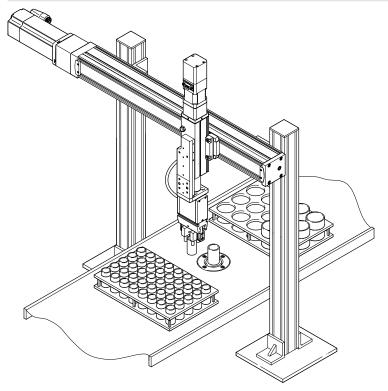
Grinding dust

Key features

Application example Card handling

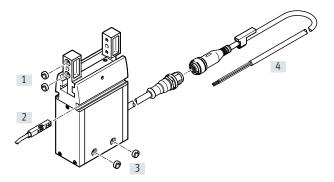


Sample preparation device with liquid dosing

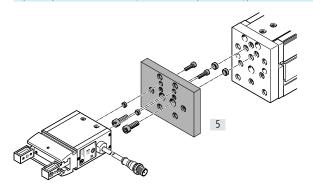


Peripherals overview

Peripherals overview

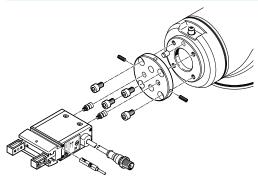


System product for handling and assembly technology



Access	Accessories				
	Type/order code	Description	→ Page/Internet		
[1]	Centring sleeve ZBH	 For centring the gripper fingers on the gripper jaws 4 centring sleeves included in the scope of delivery of the gripper 	18		
[2]	Proximity switch SMT-8M-A, SMT-8G	For sensing the gripper jaw position	18		
	Position transmitter SMAT-8M	Continuously senses the position of the gripper jaws. It has an analogue output with an output signal that is proportional to the gripper jaw position	19		
[3]	Centring sleeve ZBH	 For centring the gripper during mounting 2 centring sleeves included in the scope of delivery of the gripper 	18		
[4]	Connecting cable NEBU-M12G5	For controlling the parallel gripper	18		
[5]	Adapter kit DHAA-G-H1	Connecting plate between drive and gripper	17		

System product for robot connection



If feature EHPS-...-RA1 is used, the delivery includes all the connection components in addition to the gripper:

- Proximity switch
- Connecting cable for connecting the gripper and proximity switches
- Velcro strip for fixing the connecting cables in place
- Adapter kit for mounting on the robot arm
- USB stick for plug-in

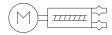
Ordering data → page 16

For proximity sensor

Type codes

001	Series
EHPS	Electric parallel gripper
002	Size
16	16
20	20
25	25
003	Position sensing

004	Bus protocol/activation	
	None	
LK	IO-Link®	
005	Robot connection	
	None	
RA1	Universal Robots	



- Ø -

Size

16 ... 25

- | -

Stroke per gripper jaw

10 ... 16 mm



General technical data					
Size		16	20	25	
Design		Worm gear	Worm gear		
		Gear rack/pinion			
Guide		Plain-bearing guide with T-slot			
Control elements		Latched switch			
Ready status indication		LED			
Gripper function		Parallel			
Number of gripper jaws		2			
Total gripping force	[N]	154	218	312	
Stroke per gripper jaw	[mm]	10	13	16	
Max. mass per gripper finger	[g]	100	150	230	
Max. switching frequency ¹⁾	[Hz]	2.2	1.7	1.3	
Repetition accuracy	[mm]	≤ 0.03	≤ 0.01	≤ 0.01	
Max. interchangeability [mm]		≤ 0.2			
Rotational symmetry	[mm]	≤ 0.2			
Max. gripper jaw backlash	[mm]	≤ 0.05	≤ 0.05	≤ 0.04	
Max. gripper jaw angular backlash	[°]	0.4	0.3	0.3	
Minimum travel	[mm]	0.5			
Position sensing		For proximity switch and position transmitter			
		Via IO-Link			
Type of mounting		Via through-holes and centring sleeves			
		Via female thread and centring sleeves			
Electrical connection		M12x1, 5-pin			
		Cable with plug			
Mounting position		Any			
Bending radius, fixed cable installation	[mm]	25			
Bending radius, flexible cable installation	[mm]	50			
Product weight	[g]	296	532	904	

¹⁾ At the maximum switching frequency, the gripper heats up to above 60°C .



- Note

The maximum gripping force is only achieved if the gripper jaws are moved through the minimum travel (see above) with no load.

Electrical data	lectrical data					
Size		16	20	25		
Motor type		DC servo motor				
Nominal operating voltage	[V DC]	24 ±10%				
Max. current consumption ¹⁾	[A]	1	2	2		
Quiescent current	[mA]	30				

¹⁾ During the movement.

Operating and environmental conditions			
Ambient temperature	[°C]	+5+60	
Degree of protection		IP40	
Noise level	[dB(A)]	70	
Corrosion resistance CRC ¹⁾		1	
CE marking (see declaration of conformity) ³⁾		To EU EMC Directive ²⁾	
		To EU RoHS Directive	
UKCA marking (see declaration of conformity)		To UK instructions for EMC	
		To UK RoHS instructions	
KC mark		KCEMC	
Certification		RCM compliance mark	

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

³⁾ Additional information www.festo.com/sp \rightarrow Certificates.

Technical data – IO-Link		
SIO-mode support		No
Communication mode		COM3 (230.4 kBaud)
Port class		Device B
Number of ports		Device 1
Process data width OUT	[bytes]	8
Process data content OUT	[bit]	16 (ControlWord)
	[bit]	16 (GrippingPosition)
	[bit]	8 (GrippingForce)
	[bit]	8 (GrippingMode)
	[bit]	8 (GrippingTolerance)
	[bit]	8 (WorkpieceNo)
Process data width IN	[bytes]	6
Process data content IN	[bit]	16 (ActualPosition)
	[bit]	16 (ErrorNumber)
	[bit]	16 (StatusWord)
Minimum cycle time	[ms]	5
Data memory required	[Kilobyte]	0.5
Protocol version		Device V 1.1

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).

²⁾ The product is suitable for industrial purposes only (Class A). Measures to suppress radio interference may be required in residential areas (Class B).

Opening and closing times [ms] as a function of setting 1 \dots 4 $\,$

The opening and closing times stated have been measured with vertically mounted gripper, gripper jaws pointing up and without gripper fingers.

	, , , , , , , , , , , , , , , , , , , ,		
Size Setting	16	20	25
Setting			
1	337	470	580
2	291	408	507
3	271	362	449
4	245	295	404

Materials	
Housing	Anodised aluminium
Gripper jaw	High-alloy stainless steel
O-ring	NBR

Pin allocation of the connector plug

For digital I/O



	M12, 5 pin	
Pin	Connection	Function
1	+24 V DC	Supply voltage
2	Input 1	Gripper jaw opening (with external gripping)
3	0 V	-
4	Input 2	Gripper jaw closing (with external gripping)
5	n.c.	Not connected

For IO-Link

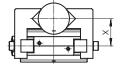


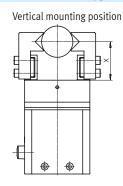
Plug I	Plug M12, 5 pin				
Pin	Connection	Function			
1	+24 V DC sensor	Sensor: Supply voltage for IO-Link communication			
2	+24 V DC actuator	Actuator: supply voltage			
3	GND sensor	Sensor: Supply voltage for IO-Link communication			
4	C/Q	10-Link communication			
5	GND actuator	Actuator: supply voltage			

Deviation from the specification IO-Link port class B, without galvanic isolation between primary and secondary power supply. This can lead to malfunction or damage of the IO-Link master and the connected IO-Link devices.

Total gripping force F_H as a function of lever arm x, mounting position, external/internal gripping and setting 1 ... 4

Horizontal mounting position





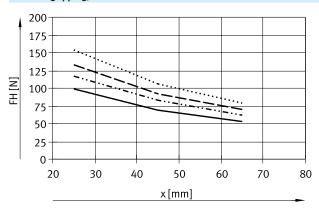
The max. achievable forces refer solely to central gripping of non-elastic components.

The gripping position and gripping force is not readjusted.

The design of the gripper jaw has a significant influence on the forces to be achieved

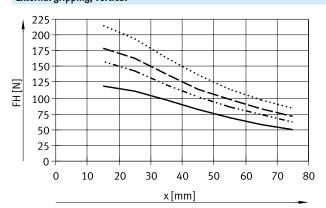
For particular gripping situations, it may be necessary to transmit a further gripping signal (max. 3 in one direction).

EHPS-16 External gripping, horizontal



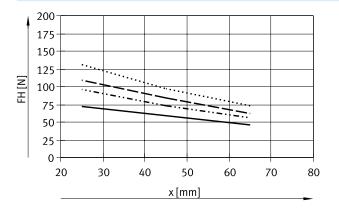
Lever arm	F _H [N] at setting	F _H [N] at setting				
[mm]	1	2	3	4		
25	98	116	132	154		
45	68	84	92	106		
65	54	62	70	78		

External gripping, vertical



Lever arm	F _H [N] at setting				
[mm]	1 2 3 4				
15	118	158	178	214	
45	82	102	114	138	
75	50	62	72	84	

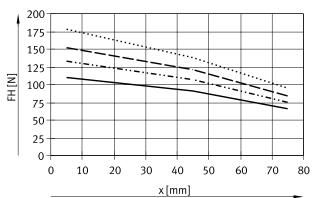
Internal gripping, horizontal



Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
25	72	96	108	130
45	58	72	84	96
65	46	56	62	74

Setting 1
----- Setting 2
---- Setting 3
---- Setting 4

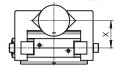
Internal gripping, vertical

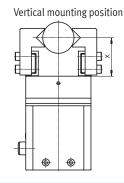


Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
15	110	134	152	178
45	90	108	122	138
75	66	74	84	94

Total gripping force F_H as a function of lever arm x, mounting position, external/internal gripping and setting 1 ... 4

Horizontal mounting position





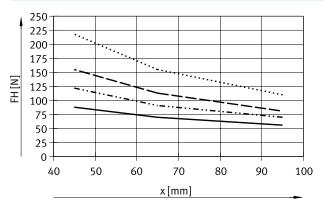
The max. achievable forces refer solely to central gripping of non-elastic components.

The gripping position and gripping force is not readjusted.

The design of the gripper jaw has a significant influence on the forces to be achieved

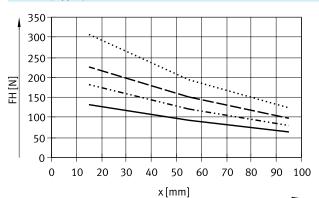
For particular gripping situations, it may be necessary to transmit a further gripping signal (max. 3 in one direction).

EHPS-20 External gripping, horizontal



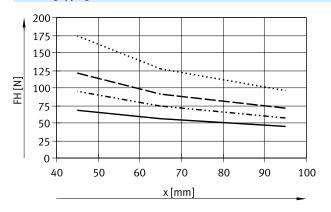
Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
45	88	122	156	218
65	70	90	114	154
95	56	70	82	110

External gripping, vertical



Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
15	132	182	226	306
55	94	120	150	194
95	64	80	98	124

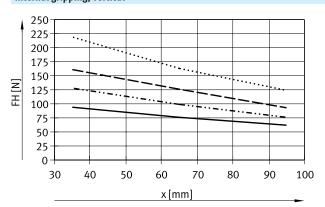
Internal gripping, horizontal



Lever arm	F _H [N] at setting				
[mm]	1	2	3	4	
45	68	96	120	174	
65	56	74	92	128	
95	46	58	72	96	

Setting 1
----- Setting 2
---- Setting 3
---- Setting 4

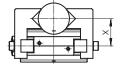
Internal gripping, vertical

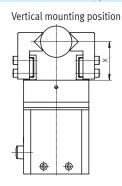


Lever arm	F _H [N] at setting				
[mm]	1	2	3	4	
35	94	128	160	220	
65	76	100	126	162	
95	62	76	92	124	

Total gripping force F_H as a function of lever arm x, mounting position, external/internal gripping and setting 1 ... 4

Horizontal mounting position





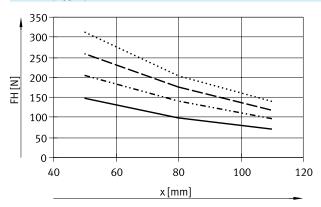
The max. achievable forces refer solely to central gripping of non-elastic components.

The gripping position and gripping force is not readjusted.

The design of the gripper jaw has a significant influence on the forces to be achieved

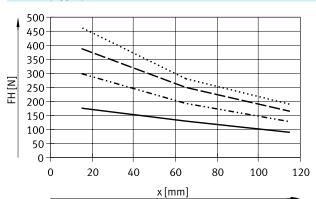
For particular gripping situations, it may be necessary to transmit a further gripping signal (max. 3 in one direction).

EHPS-25 External gripping, horizontal



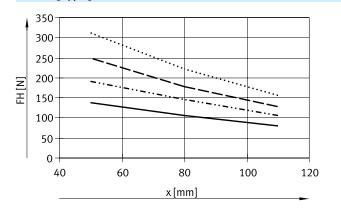
Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
50	148	204	260	312
80	98	140	176	204
110	70	96	118	140

External gripping, vertical



Lever arm F _H [N] at setting					
[mm]	1 2 3 4				
15	176	298	388	462	
65	130	194	250	280	
115	90	128	166	190	

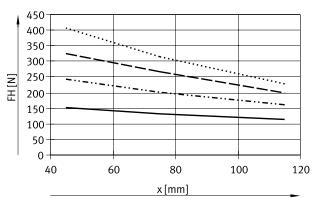
Internal gripping, horizontal



Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
50	138	192	250	312
80	106	146	178	222
110	80	106	128	156

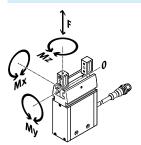
Setting 1
----- Setting 2
---- Setting 3
---- Setting 4

Internal gripping, vertical



Lever arm	F _H [N] at setting			
[mm]	1	2	3	4
45	152	242	326	406
75	132	200	266	314
115	114	162	198	228

Static characteristic load values at the gripper jaws

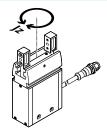


The indicated permissible forces and torques apply to a single gripper jaw. They include the lever arm, additional applied loads due to the workpiece or external gripper fingers and acceleration forces occurring during movement.

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

Size		16	20	25
Max. permissible force F _z	[N]	200	325	450
Max. permissible torque M _x	[Nm]	7	13	28
Max. permissible torque M _y	[Nm]	4.4	8	16
Max. permissible torque M _z	[Nm]	7	13	28

Mass moment of inertia



Under the following conditions:

- The reference point is the central axis
- Without external gripper fingers
- In a load-free state

Size		16	20	25
Mass moment of inertia	[kgcm ²]	0.78	2.02	5.24

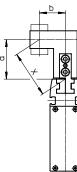
Gripping force F_H per gripper jaw as a function of lever arm x and eccentricity a and b

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 be read from the graphs

(→ page 10) using the calculated value x.



Calculation example

Given:

Distance a = 40 mm

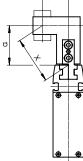
Distance b = 50 mm

To be calculated:

The gripping force in setting 4, with an

EHPS-16-A, used as an external gripper and in horizontal mounting

position.



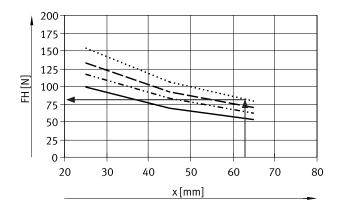
 $x = \sqrt{40^2 + 50^2}$

x = 64 mm

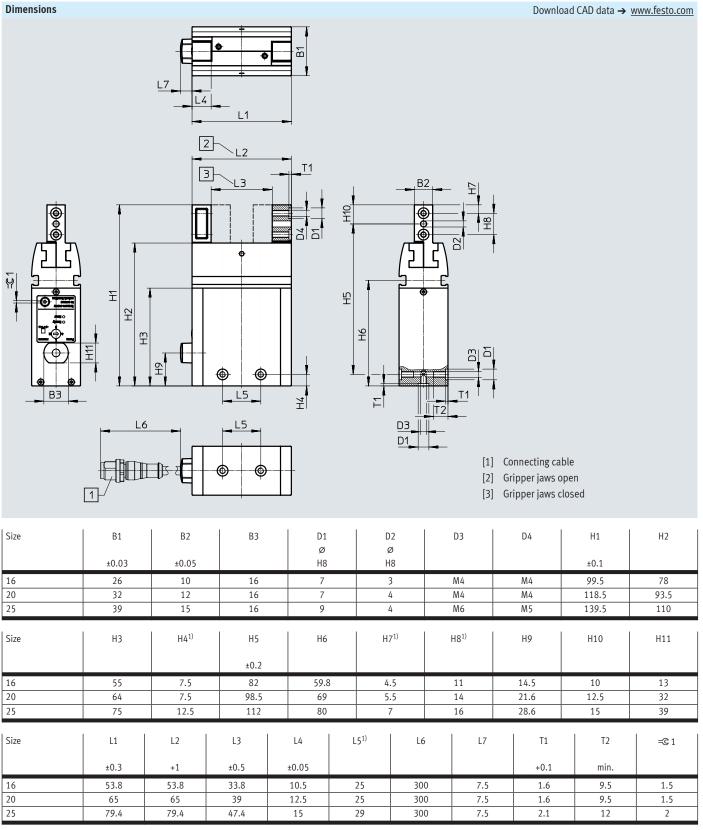
Approach: The graph (→ page 10)

Calculating the lever arm \boldsymbol{x} gives a value of F_H = approx. 77 N

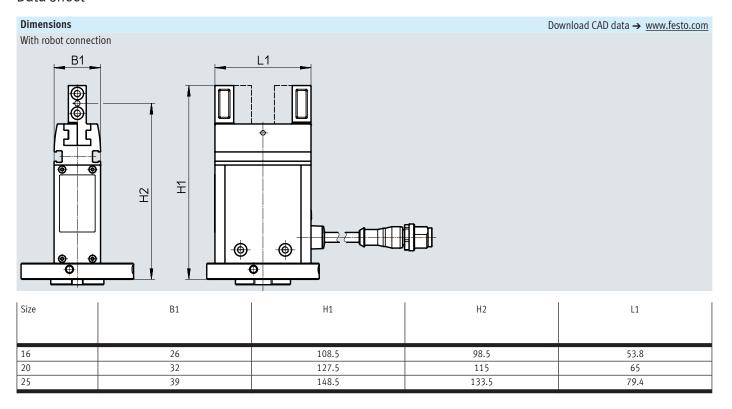
for the gripping force.



Setting 1 Setting 2 Setting 3 Setting 4



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



Ordering data								
	Size	Part no.	Туре					
	With I/O interface							
	16	8070832	EHPS-16-A					
	20	8070831	EHPS-20-A					
	25	8070830	EHPS-25-A					
	With IO-Link							
	16	8103809	EHPS-16-A-LK					
	20	8103810	EHPS-20-A-LK					
	25	8103811	EHPS-25-A-LK					
	With robot connection	n						
	16	8119111	EHPS-16-A-RA1					
	20	8119112	EHPS-20-A-RA1					
	25	8119113	EHPS-25-A-RA1					

Accessories

Adapter kit DHAA, HAPG, HMSV 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 cor					1		Download CAD data → www.f	testo.c	
ombination	Drive	Gripper			Adapter kit				
	Size	Size	Mounting option		CRC ¹⁾	Part no.	Туре		
SSC/EHPS	EGSC	EHPS			HMSV				
	60	16, 20	•	•	2	8106581	DHAA-G-E8-60-B18-16		
GSL/EHPS	EGSL	EHPS			HMSV				
%• •	45,55	16	•	•	2	548785	HMSV-55		
	75	20, 25	•	•		548786	HMSV-56		
RMB/EHPS	ERMB	EHPS			HAPG				
	20	16, 20	•	•	2	184479	HAPG-SD2-3		
	25	16, 20	•	•		184482	HAPG-SD2-6		
	20	25	•	•		184480	HAPG-SD2-4		
	25	25	•	•		184483	HAPG-SD2-7		
Section 1	32	25	•	•		184485	HAPG-SD2-9		
RMO/EHPS	ERMO	EHPS			DHAA	HAA			
Ø.	16	16	•	•	2	8079173	DHAA-G-R3-16-B18-16		
	25	16, 20	•	•		8071956	DHAA-G-R3-25-B18-16		
STATE OF STA	32	20	•	•		8079214	DHAA-G-R3-32-B18-20		
	32	25	•	•		8079208	DHAA-G-R3-32-B18-25		
			'	,	,	•			
HMB/EHPS	EHMB	EHPS			HAPG				
\$1.00 PM	20	25	•	•	2	184485	HAPG-SD2-9		
	25, 32	25	•	•		8078739	DHAA-G-H1-25-B18-25		
GPL/EHPS	DGPL	EHPS			HMVA, H	APG, HMSV			
	Direct mour			_	1 1	106700	HANVA DI A19/25		
	25, 32	16	•	•	2	196788	HMVA-DLA18/25		
	40	16		_	-	193922 196790	HAPG-37-S4 HMVA-DLA40		
	40	10	•	•		193922	HAPG-37-S4		
SPL/ENPS	Dovetail mo	unting		l		173722	IIAI 0-3/-34		
	25	16		•	2	196788	HMVA-DLA18/25		
		"	_	_		177768	HMSV-28		
	40	16, 20		•	\dashv	196790	HMVA-DLA40		
		-,		_		177768	HMSV-28		
	-	1	- 		-				
	40	25	-			196790	HMVA-DLA40		

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

0									
Ordering data	For size Desc	ription				Weight	Part no.	Туре	PU ¹⁾
	[mm]	триоп				[g]	T dit iio.	Турс	10
Centring sleeve						101		Data chaota > In	tornot, abl
$\overline{}$		dod in the	0.00000	of dolivor	y of the gripper.	1	8146544	Data sheets → In ZBH-7-B	10
				of delivery of the gripper: the gripper jaws and 2 for mounting the 1			150927	ZBH-9	10
							130927	ZDII-9	
) Packaging unit						-	·		
Ordering data -	- Connecting cables for the gr	pper's co	nnecto	plugs					
_	Electrical connection, left			í	al connection, right	Cable length [m]	Part no.	Туре	
	Straight socket, M12x1,			Cable,	open end,	2.5	550326	NEBU-M12G5-K-2.5-LE4	
	5-pin			4-wire		5	541328	NEBU-M12G5-K-5-LE4	
	Angled socket, M12x1,			Cable,	open end,	2.5	550325	NEBU-M12W5-K-2.5-LE4	
	5-pin			4-wire		5	541329	NEBU-M12W5-K-5-LE4	
	Straight socket, M12x1,			Straigh	t socket, M12x1,	5	574321	NEBU-M12G5-E-5-Q8N-M12G	5
	5-pin			5-pin		7.5	574322	NEBU-M12G5-E-7.5-Q8N-M12G5 NEBU-M12G5-K-0.5-M12W5	
Ø al	Straight socket, M12x1,			Angled	socket, M12x1,	0.5	8003617		
	5-pin			5-pin	, ,	2	8003618	NEBU-M12G5-K-2-M12W5	
Ordering data -	– Proximity switches for T-slot	, magnet	1		1	1	1	Data sheets → In	ternet: sm
	Type of mounting		Switch		Electrical connection	Cable length	Part no.	Type	
			outpu	t		[m]			
N/O contact									
	Inserted in the slot from abo	ve,	PNP		Cable, 3-wire	2.5	574335	SMT-8M-A-PS-24V-E-2,5-0E	
	short design				Plug M8x1, 3-pin	0.3	574334	SMT-8M-A-PS-24V-E-0,3-M8D	
4			NPN		Cable, 3-wire	2.5	574338	SMT-8M-A-NS-24V-E-2,5-OE	
			Plug M8x1, 3-pin		0.3	574339	SMT-8M-A-NS-24V-E-0,3-M8D		
N/C contact									
3	Inserted in the slot from abo	Ve.	PNP		Cable, 3-wire	7.5	574340	SMT-8M-A-PO-24V-E-7,5-OE	
	short design	• • • •			casic, 5 wire	7.5	374340	5.111 5.11 7.1 5 2.17 E 7,5 6E	
*									
Ordoring data	– Proximity switches for T-slot	magnet	o rocieti	ivo				Data ah sata is la	
Ordering data	Type of mounting	1 -	ching		rical connection,	Cable length	Part no.	Data sheets → In	ternet: Sii
	Type of mounting	outp	-		t direction of connection	[m]	rait iio.	Туре	
		outp	ut	outie	t direction of connection	[IIII]			
N/O contact	1	DND		16.11	0 1 1 1	105		CHT OC DC AVVE A FO OF	
A	Insertable in the slot length-	PNP			e, 3-wire, lateral	2.5	547859	SMT-8G-PS-24V-E-2,5Q-0E	
	wise				M8x1, 3-pin, lateral	0.3	547860	SMT-8G-PS-24V-E-0,3Q-M8D	
		NPN			e, 3-wire, lateral	2.5	8065028	SMT-8G-NS-24V-E-2,5Q-0E	
V				Plug	M8x1, 3-pin, lateral	0.3	8065027	SMT-8G-NS-24V-E-0,3Q-M8D	
Ordering data	- Connecting cables							Data sheets → Inte	ernet: neb
	Electrical connection, left			Electric	cal connection, right	Cable length	Part no.	Туре	
					. 🤟	[m]		**	
0	Straight socket, M8x1, 3-pin			Cahle	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	
	gica sociat, mont, 5-piii			Cabic,	opo enu, 5 mile	5	541341	NEBU-M8W3-K-5-LE3	
S				1		ا	541541	IAPDO-IAIOAA 3-IV-3-FE3	

Accessories

Position transmitter

The position transmitter continuously senses the position of the gripper jaws. It has an analogue output with an output signal that is proportional to the gripper jaw position.

	Ordering data – Position transmitters for T-slot Data sheets → Internet: position transmitters									
		For size		Analogue output	Type of mounting	Electrical connection	Cable	Part no.	Туре	
			measuring				length			
			range	[V]			[m]			
Ī		10 35	0 40	010	Inserted in slot from	Plug M8x1, 4-pin,	0.3	553744	SMAT-8M-U-E-0,3-M8D	
					above	in-line				

Ordering data –	Ordering data - Connecting cables Data sheets → Internet: nebu								
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part no.	Туре				
	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				
	,g.ca 300.cc,o.2, 4 pm		5	541345	NEBU-M8W4-K-5-LE4				

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