



FESTO

Key features

At a glance

General information

The fully encapsulated gripper kinematics enable the gripper to be used in extremely harsh ambient conditions.

Sturdy and precise kinematics for maximum torque resistance and long service life.

The force generated by the linear motion is translated into the gripper jaw movement via a wedge mechanism

with forced motion sequence. This also guarantees synchronous movement of the gripper jaw. The ground gripper jaws and slideway ensure a virtually backlash-free movement.

Flexible range of applications

- Can be used as a double-acting and single-acting gripper
- Compression spring for supplementary or retaining gripping forces
- Suitable for external and internal gripping

The technology in detail Gripper closed







- 1 Gripper jaw
- 2 Wedge with forced guidance
- 3 Piston with magnet
- 4 Slot for proximity sensor

Note

Gripper selection sizing software

→ www.festo.com

Position sensing/force control

With position transmitter SMAT-8M



Infinite position sensing possible

• Analogue output 0 ... 10 V



With proportional pressure regulator VPPM

Infinite adjustment of the gripping force possible

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

With proximity sensor SMT-8G



Multiple positions can be sensed:

- Open
- Closed
- Workpiece gripped



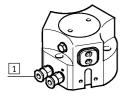
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Key features

Wide range of supply ports

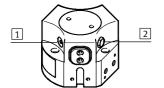
Direct

From the front



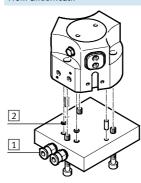
- Supply ports
- 2 O-rings

Other ports

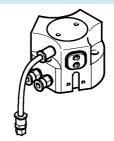


- 1 Port for lubrication nipple
- 2 Exhaust hole or sealing air port

Via adapter plate From underneath



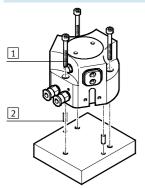
Use in harsh ambient conditions



When using the gripper in damp environments or with liquid/gaseous media, make sure that the filter is installed in a neutral environment. The same applies to unused supply ports when operating the gripper as a single-acting gripper.

Mounting options

Direct mounting From above



- 1 Mounting screws
- 2 Centring pins



Note

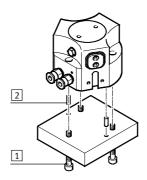
These grippers are not suitable or are of limited suitability for the following sample applications:



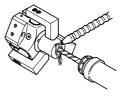


• Welding spatter

Via adapter plate From underneath



Of limited suitability for:



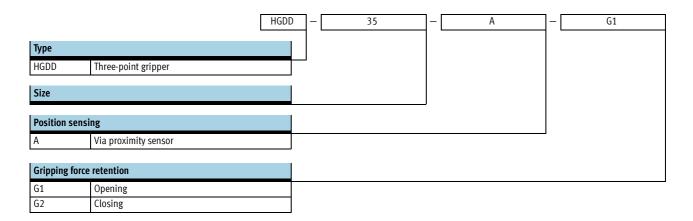
 Aggressive media only possible after consultation with Festo



Grinding dust



Three-point grippers HGDD, sealed Type codes

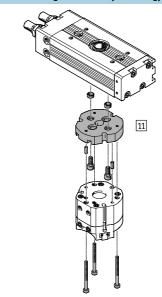


Three-point grippers HGDD, sealed Peripherals overview

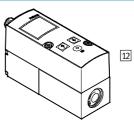
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Peripherals overview 7 8 1 9 3 10 5

System product for handling and assembly technology



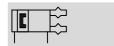
Proportional pressure regulator VPPM



Acces	sories		
	Туре	Brief description	→ Page/Internet
1	Lubrication nipple	Included in the scope of delivery of the gripper	-
2	Push-in fitting QS	For connecting compressed air tubing with standard O.D.	quick star
3	Blanking plug B	For sealing the supply ports when using the lower supply ports	17
4	Sensor bracket DASI	Switch lug for sensing the gripper jaw position. Mounted on the gripper jaw blank	17
5	Sensor bracket DASI	Clamping block for securing the proximity sensors SIEH or SIEN	17
6	Proximity sensor SIEH/SIEN	For sensing the piston position	18
7	Gripper jaw blank BUB-HGDD	Blank specially matched to the gripper jaws for custom fabrication of gripper fingers	16
8	Centring sleeve ZBH	 For centring gripper jaw blanks/gripper fingers on the gripper jaws 6 centring sleeves included in the scope of delivery of the gripper 	17
9	Proximity sensor SMT-8G	 For sensing the piston position, 3 slots available Proximity sensor does not project past the housing at the bottom 	17
10	Position transmitter SMAT-8M	Continuously senses the position of the piston. Has an analogue output with an output signal in proportion to the piston position.	18
11	Adapter plate DHAA	Connecting plate between drive and gripper	14
12	Proportional pressure regulator VPPM	For infinite adjustment of the gripping force	vppm

Technical data

Function Double-acting HGDD-...



- **Ø** - Size 35 ... 80 mm

Stroke 4 ... 12 mm



Function - Variants Single-acting or with gripping force retention opening HGDD-...-G1



... closing HGDD-...-G2





General technical data							
Size		35	40	50	63	80	
Design		Wedge-shaped actua	ator				
		Forced motion seque	ence				
Mode of operation		Double-acting					
Gripper function		3-point					
Number of gripper jaws		3					
Max. applied load per external gripper	[N]	0.57	1.30	2.76	4.40	7.90	
finger ¹⁾							
Stroke per gripper jaw	[mm]	4	6	8	10	12	
Pneumatic connection		M5	M5	G1/8	G1/8	G1/8	
Pneumatic connection for sealing air		M3	M3	M5	M5	G1/8	
Pneumatic connection for lubrication nip	ple	M3	M3	M5	M5	M5	
Repetition accuracy ²⁾	[mm]	≤ 0.03	≤ 0.03			≤ 0.05	
Max. interchangeability	[mm]	≤ ±0.2					
Max. operating frequency	[Hz]	≤ 4					
Rotational symmetry	[mm]	<∅0.2					
Position sensing		Via proximity sensor					
Type of mounting		Via through-hole and dowel pin					
		Via female thread an	nd dowel pin				
Mounting position		Any	Any				

- 1) Valid for unthrottled operation
- 2) End-position drift under constant conditions of use with 100 consecutive strokes, concentric to the central shaft

Operating and environmental conditions					
Min. operating pressure					
HGDDA	[bar]	3			
HGDDA-G	[bar]	4			
Max. operating pressure	[bar]	8			
Operating pressure for sealing air	[bar]	0 0.5			
Operating medium		Compressed air in accordance with ISO 8573-1:2010 [7:4:4]			
Note on operating/pilot medium		Operation with lubricated medium possible (in which case lubricated operation will always be required)			
Ambient temperature ¹⁾	[°C]	+5 +60			
Corrosion resistance class CRC ²⁾		2			

Note operating range of proximity sensors

Corrosion resistance class 2 according to Festo standard 940 070
Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

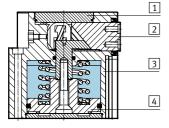


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Weight [g]					
Size	35	40	50	63	80
HGDDA	309	599	1,117	2,175	3,522
HGDDA-G	370	775	1,495	2,848	4,788

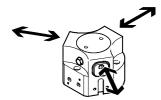
Materials

Sectional view



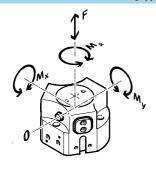
Thre	Three-point gripper					
1	Cover cap	High-alloy stainless steel				
2	Gripper jaw	Hardened steel				
3	Housing	Anodised aluminium				
4	Piston	Hard anodised aluminium				
-	Seals	Nitrile rubber				
-	Note on materials	Free of copper and PTFE				
		RoHS-compliant				

Gripping force [N] at 6 bar



Size		35	40	50	63	80
Gripping force per gripper jaw						
HGDDA	Opening	122	216	371	582	943
	Closing	112	200	348	553	915
Total gripping force						
HGDDA	Opening	366	648	1,113	1,746	2,829
	Closing	336	600	1,044	1,659	2,745

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 finger point of rotation) must be taken into consideration for the calculation of torques.

Size		35	40	50	63	80
Max. permissible force F _z	[N]	300	700	1,300	2,300	3,600
Max. permissible torque M _x	[Nm]	12	25	45	70	100
Max. permissible torque M _y	[Nm]	8	18	30	45	65
Max. permissible torque Mr	[Nm]	8	20	30	50	75

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Technical data

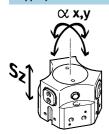
Mass moment of inertia [kgcm²]



Mass moment of inertia of the threepoint gripper in relation to the central axis, without external gripper fingers, without load.

Size	35	40	50	63	80
HGDDA	1.01	3.31	9.65	29	70.22
HGDDA-G	1.37	5.01	15.07	45.05	109

Gripper jaw backlash



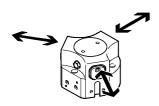
The plain-bearing guide used in the grippers means that there is backlash between the gripper jaws and the guide element. The values entered in the table for the backlash were calculated in accordance with the traditional accumulative tolerance method.

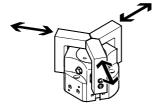
Size		35	40	50	63	80
Max. gripper jaw backlash Sz [mm]		0.05				
Max. gripper jaw angular backlash ax, ay [°]		0.1				

Opening and closing times [ms] at 6 bar

Without external gripper fingers

With external gripper fingers





The indicated opening and closing times [ms] were measured at room temperature at an operating pressure of 6 bar with horizontally mounted grippers without additional gripper

fingers. The grippers must be throttled for greater applied loads. Opening and closing times must then be adjusted accordingly.

Size		35	40	50	63	80
Without external gripper fing	gers					
HGDDA	Opening	44	78	93	115	152
	Closing	52	106	128	145	142
HGDDA-G1	Opening	38	70	25	48	72
	Closing	85	211	160	190	246
HGDDA-G2	Opening	81	144	111	135	159
	Closing	42	110	87	68	107
With external gripper fingers	per gripper finger (as a fu	ınction of appli	ed load)			
HGDD	2 N	52	-	-	-	-
	4 N	74	70	-	-	-
	5 N	83	78	-	-	-
	8 N	105	99	106	-	-
	10 N	-	111	118	128	-
	15 N	-	-	145	157	209
	18 N	-	-	-	172	229
	20 N	-	-	-	181	241
	22 N	-	-	-	-	253
	24 N	-	-		-	264

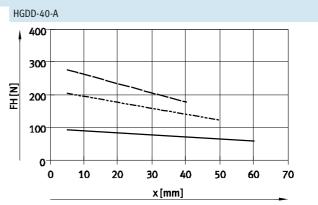


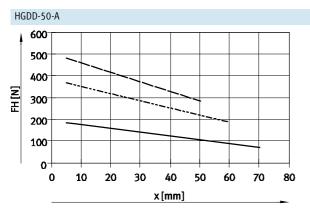
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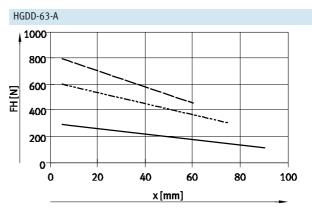
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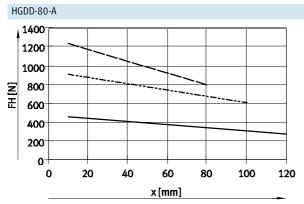
Gripping force F_H per gripper jaw as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm can be determined from the following graphs. The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping forces as a function of operating pressure and lever arm x The gripping fo

External gripping (closing) HGDD-35-A x[mm]









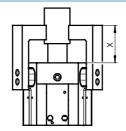


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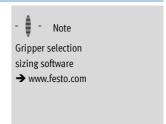
Technical data

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

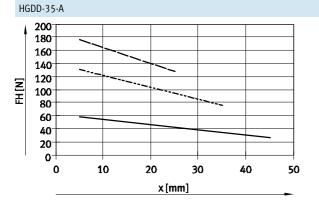
The gripping forces as a function of operating pressure and lever arm can be determined from the following graphs.

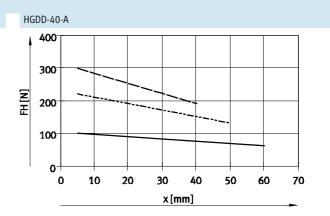


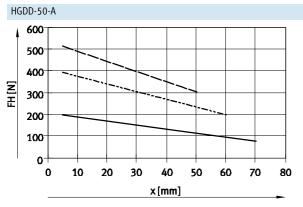


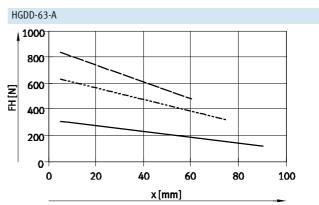


Internal gripping (opening)

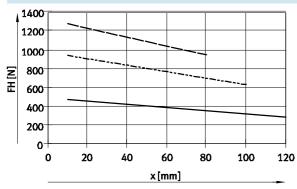








HGDD-80-A





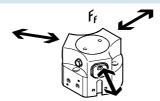
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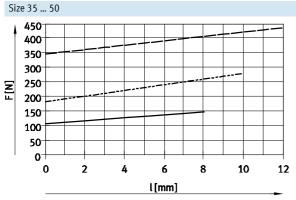
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Spring force $\mathbf{F}_{\mathbf{F}}$ as a function of size and gripper jaw stroke \mathbf{l} per gripper finger

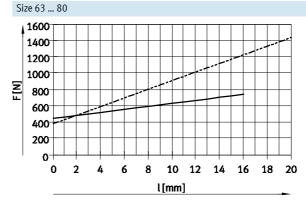
Gripping force retention for HGDD-...-G...

The spring forces F_F as a function of gripper jaw stroke can be determined from the following graph.





HGDD-35-A-G
HGDD-40-A-G
HGDD-50-A-G



HGDD-63-A-G
HGDD-80-A-G

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

The lever arm x must be taken into consideration when determining the actual spring force F_{Ftotal}.

The formulae for calculating the spring force are provided in the table below.

Gripping force retention	Size	F _{Ftotal} per gripper finger
G1	35	−0.85* x+0.45* F _F
	40	−0.55* x+0.35* F _F
	50	−2.5* x+0.75* F _F
	63	−0.2* x+0.4* F _F
	80	−1.5* x+0.35* F _F

	Gripping force retention	Size	F _{Ftotal} per gripper finger
•	G2	35	−0.6* x+0.45* F _F
		40	−0.55* x+0.35* F _F
		50	−2.5* x+0.6* F _F
		63	-1.0* x+0.4* F _F
		80	-4.0* x+0.85* F _F

Determination of the actual gripping forces F_{Gr} for HGDD-...-G1 and HGDD-...-G2 as a function of application

The three-point grippers with integrated spring type HGDD-...-G1 (opening gripping force retention) and HGDD-...-G2 (closing gripping force retention) can be used as — single-acting grippers

- grippers with supplementary gripping force and
- grippers with gripping force retention

depending on requirements.

In order to calculate the available gripping forces F_{Gr} (per gripper finger),

the gripping force (F_H) and spring force (F_{Ftotal}) must be combined accordingly.

Application forces per gripper finger

Single-acting

• Gripping with spring force:

 $F_{Gr} = F_{Ftotal}$

• Gripping with pressure force: F_{Gr} = F_H - F_{Ftotal} Supplementary gripping force

Gripping with pressure and spring force:

 $F_{Gr} = F_H + F_{Ftotal}$

Gripping force retention

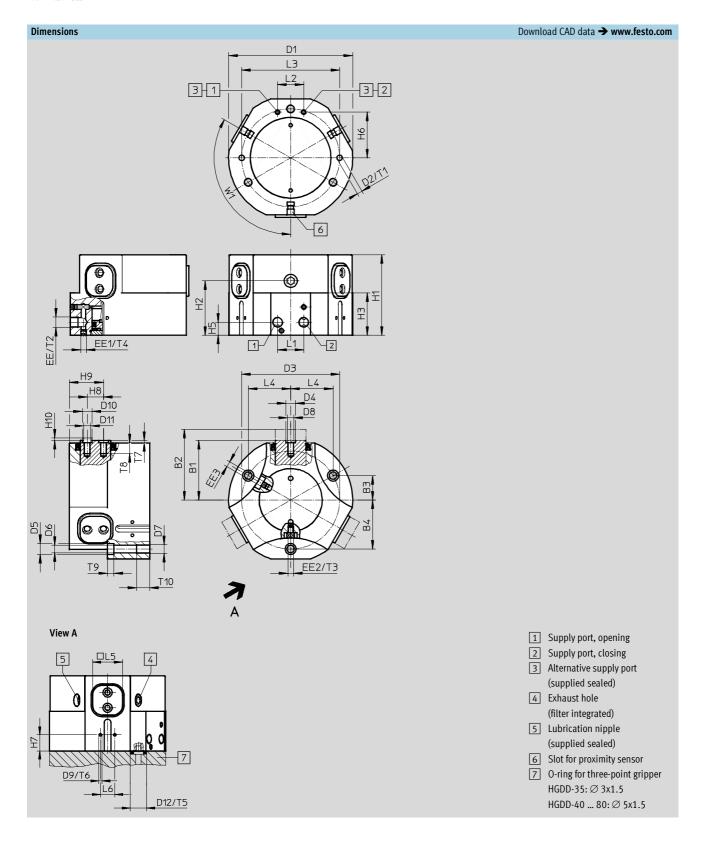
• Gripping with spring force:

 $F_{Gr} = F_{Ftotal}$



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Technical data



Three-point grippers HGDD, sealed Technical data

Size	B1	B2	В3	B4	D1 Ø	D2 Ø	D3 Ø	D4 Ø	D5 Ø	D6 Ø	D7	D8	D9
[mm]	±0.5	±0.5			±0.1	H8	±0.1	H8	H13	H13			
35	28	32	11	22	58	3	44	5	5.9	3.3	M4	M3	M3
40	36	42	14	28	74	4	56	7	9.4	5.1	M6	M4	M3
50	44.5	52.5	17.5	35	93	5	70	9	10.2	6.8	M8	M6	M3
63	55	65	22.5	45	114	5	90	9	10.2	6.8	M8	M6	M3
80	68	80	28	56	139	6	112	9	13.5	8.4	M10	M6	M3

Size	D10	D11	D12	EE	EE1	EE2	EE3	H1		H2	
	Ø	Ø	Ø						-G		-G
[mm]	h7		+0.2					±0.05	±0.05		
35	5	3.2	6	M5	M3	M3	M3	41	51	29	39
40	7	5.3	8	M5	M5	M3	M3	48.5	66	34.5	52
50	9	6.4	8	G1/8	M5	M5	M5	58.5	83.5	40.4	65.4
63	9	6.4	8	G1/8	M5	M5	M5	74	104	50	80
80	9	6.4	8	G1/8	M5	G1/8	M5	83.5	120.5	55.5	92.5

Size	Н	I3	H5	Н6	H:	7	H8 ¹⁾	H9	H10	L1	L2	L3	L4
		-G				-G							
[mm]	-0.2	-0.2	±0.1	±0.1	±0.1	±0.1		-0.02	-0.3	±0.1	±0.1	±0.02	
35	23	33	9	18.5	7	17	7	15.5	1.2	12	15	45	19.05
40	27.5	45	9	25	10	27.5	10	19	1.4	12	18	56	24.25
50	32.5	57.5	12	32	12.5	37.5	12	24.1	1.9	24	18	70	30.31
63	39	69	12	42	16	46	15	31.5	1.9	24	24	90	38.97
80	43	80	12	53	21	58	18	37	1.9	30	30	112	48.5

Size	L5	L6	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	W1
[mm]	-0.02	±0.1	min.	min.	min.	min.	+0.1	min.	+0.1	min.	+0.2	min.	
35	14	12	5	5	3	3	1.2	4	1.3	5	3.2	8	120°
40	18	12	6	6	3	5	1.2	5	1.6	6	5	10	120°
50	22	12	8	7	6	5	1.2	5	2.1	10	6.1	12	120°
63	28	14	8	7	6	5	1.2	5	2.1	10	6.1	12	120°
80	32	14	10	8	10	5	1.2	5	2.1	10	8	15	120°

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

Ordering data								
Size	Double-acting	Single-acting or with gripping force retention						
	without compression spring	Opening	Closing					
[mm]	Part No. Type	Part No. Type	Part No.	Туре				
35	1163037 HGDD-35-A	1163038 HGDD-35-A-G1	1163039	HGDD-35-A-G2				
40	1163040 HGDD-40-A	1163041 HGDD-40-A-G1	1163042	HGDD-40-A-G2				
50	1163043 HGDD-50-A	1163044 HGDD-50-A-G1	1163045	HGDD-50-A-G2				
63	1163046 HGDD-63-A	1163047 HGDD-63-A-G1	1163048	HGDD-63-A-G2				
80	1163049 HGDD-80-A	1163050 HGDD-80-A-G1	1163051	HGDD-80-A-G2				

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Accessories

Adapter kit HMSV, HAPG, DHAA Material:

Wrought aluminium alloy Free of copper and PTFE RoHS-compliant



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

	er combinations with adapter kit	Calman	ا ما ما		ownload CAD data → www.festo.
ombination		Gripper	Adapter		T
	Size	Size	CRC ¹⁾	Part No.	Туре
GSL/HGDD	DGSL	HGDD	HAPG		
K	16, 20, 25	35		542436	HAPG-94
	20, 25	40	2	542437	HAPG-95
	25	50		542443	HAPG-SD2-36
LT/HGDD	SLT	HGDD	HAPG		
	16	35		542435	HAPG-99
	20, 25	35		542436	HAPG-94
	20, 25	40	2	542437	HAPG-95
	25	50		542443	HAPG-SD2-36
IMP/IICDD	НМР	HGDD	HAPG		
MP/HGDD	HMP ≥ . 16	35	HAPG	542434	HAPG-98
	N 6	40			HAPG-98
	16, 20, 25 20, 25, 32	50	2	542437 542443	HAPG-SD2-36
	25, 32	63		542438	HAPG-96
			1		
RQD/HGDD	DRQD	HGDD	HAPG		
<u> </u>	20, 25, 32	35		542441	HAPG-SD2-34
	20 ²⁾ , 25/32 ³⁾	35		542441	HAPG-SD2-34
	25, 32	40	2	542442	HAPG-SD2-35
G. 57	25/32 ³⁾	40	2	542442	HAPG-SD2-35
	32	50		542443	HAPG-SD2-36
	32 ³⁾	50		542443	HAPG-SD2-36
	DRQD	HGDD-G1/G2	DHAA		
	20, 25, 32	35		2376297	DHAA-G-Q5-20-B13-35
	' '	1			
	25, 32	40	2	2376728	DHAA-G-Q5-25-B13-40
			2	2376728 2377625	DHAA-G-Q5-25-B13-40 DHAA-G-H2-20-B13-50
IRRD/HGDD	25, 32 32	40 50			
RRD/HGDD	25, 32 32 DRRD	40 50 HGDD	2 DHAA	2377625	DHAA-G-H2-20-B13-50
@~&\	25, 32 32 DRRD 20	40 50 HGDD 35		2377625	DHAA-G-H2-20-B13-50 DHAA-G-Q11-20-B13-35
@~&\	25, 32 32 DRRD 20 25	40 50 HGDD 35 35		2377625 2075498 1718041	DHAA-G-H2-20-B13-50 DHAA-G-Q11-20-B13-35 DHAA-G-Q11-25-B13-35
@~&\	25, 32 32 DRRD 20 25 25	40 50 HGDD 35 35 40	DHAA	2377625 2075498 1718041 1718564	DHAA-G-H2-20-B13-50 DHAA-G-Q11-20-B13-35 DHAA-G-Q11-25-B13-35 DHAA-G-Q11-25-B13-40
@~&\	25, 32 32 DRRD 20 25 25 32	40 50 HGDD 35 35 40 40		2377625 2075498 1718041 1718564 2077119	DHAA-G-H2-20-B13-50 DHAA-G-Q11-20-B13-35 DHAA-G-Q11-25-B13-35 DHAA-G-Q11-25-B13-40 DHAA-G-Q11-32-B13-40
ORRD/HGDD	25, 32 32 DRRD 20 25 25	40 50 HGDD 35 35 40	DHAA	2377625 2075498 1718041 1718564	DHAA-G-H2-20-B13-50 DHAA-G-Q11-20-B13-35 DHAA-G-Q11-25-B13-35 DHAA-G-Q11-25-B13-40

¹⁾ Corrosion resistance class 2 according to Festo standard 940 070

Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or

In combination with DRQD-...-E422 (flanged shaft with energy through-feed).

³⁾ In combination with DRQD-...-E444 (flanged shaft with energy through-feed).



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Adapter kit HMSV, HAPG, DHAA Material:

Wrought aluminium alloy Free of copper and PTFE RoHS-compliant



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

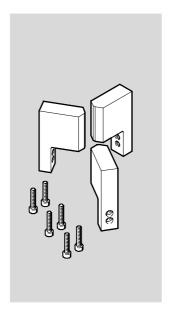
	r combinations with adapter ki				ownload CAD data → www.festo.c
Combination	Drive	Gripper	Adapter		
	Size	Size	CRC ¹⁾	Part No.	Туре
GSL/HGDD	EGSL	HGDD	HAPG		
H	45, 55, 75	35		542436	HAPG-94
0000	75	40	2	542437	HAPG-95
	75	50		542443	HAPG-SD2-36
GSA/HGDD	EGSA	HGDD	HAPG, H	MSV	
•		35		542436	HAPG-94
				560017	HMSV-61
				548805	ZBV-9-7
	60	35		542436	HAPG-94
			2	560018	HMSV-62
/ *				548806	ZBV-12-9
	60	40		542437	HAPG-95
				560018	HMSV-62
				548806	ZBV-12-9
RMB/HGDD	ERMB	HGDD	HAPG		
· ·	20, 25, 32	35		542441	HAPG-SD2-34
	25, 32	40	2	542442	HAPG-SD2-35
0:200	32	50		542443	HAPG-SD2-36
HMB/HGDD	ЕНМВ	HGDD	HAPG		
// Variable	20	35		542441	HAPG-SD2-34
	20	40	2	542442	HAPG-SD2-35
	25, 32	63		542443	HAPG-SD2-36
			1		

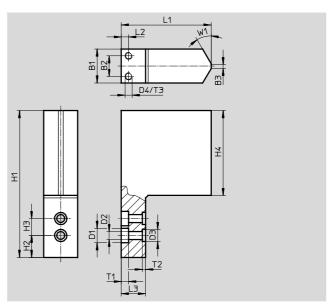
¹⁾ Corrosion resistance class 2 according to Festo standard 940 070 Components subject to moderate corrosion stress. Externally visible parts with primarily decorative surface requirements which are in direct contact with a normal industrial environment or media such as coolants or lubricating agents.

Gripper jaw blank BUB-HGDD

(scope of delivery: 3 pieces)

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





Dimensions and	Dimensions and ordering data										
For size	B1	B2	В3	D1	D2	D3	D4				
				Ø	Ø	Ø					
[mm]	±0.05			H13	H13	Н8					
35	14	8.5	2	5.9	3.2	5	M3				
40	20	14	2	7.4	4.3	7	M3				
50	29	23	2	10.4	6.4	9	M3				
63	32	26	2	10.4	6.4	9	M3				
80	35	26	2	10.4	6.4	9	M3				

For size	H1	H2	H3 ¹⁾	H4	L1	L2	L3
[mm]	±0.05	±0.02			±0.05		
35	60.5	9	7	35	37	3	10
40	77	7	10	50	45	5	10
50	96	11	12	60	55	6	12
63	121	13.5	15	75	64	6	12
80	153.5	15.5	18	100	79.4	10	15

For size [mm]	T1	T2 +0.1	T3	W1	Weight per blank [g]	Part No.	Туре
	0.2						
35	3 ^{+0.2}	1.3	5	30°	57	1180955	BUB-HGDD-35
40	4+0.2	1.6	5	30°	131	1180956	BUB-HGDD-40
50	6.1 ^{+0.1}	2.1	5	30°	276	1180957	BUB-HGDD-50
63	6.1+0.1	2.1	5	30°	440	1180958	BUB-HGDD-63
80	6.1 ^{+0.1}	2.1	5	30°	793	1180959	BUB-HGDD-80

^{1) ±0.02} and ±0.01 applies to the centring D3 ±0.1 applies to the through-holes D1 and D2





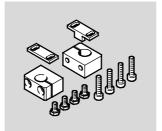
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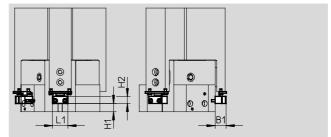
Sensor bracket DASI

(scope of delivery: 1 piece)

Material:

Wrought aluminium alloy RoHS-compliant





Dimensions and	ordering data						
For size	B1	Н	H1		L1	Weight	Part No. Type
			-G				
[mm]						[g]	
35	13	3	13	8	21	20	1435236 DASI-B13-35-S3
40	16	6	23.5	10	20	27	1435232 DASI-B13-40-S8
50	16	8.5	33.5	10	20	30	1435233 DASI-B13-50-S8
63	16	10	36	10	22	35	1435234 DASI-B13-63-S8
80	22	10	47	15	22	45	1435235 DASI-B13-80-S8

Ordering da	ta					
	For size	Comment	Weight	Part No.	Туре	PU ¹⁾
	[mm]		[g]			
Centring sle	eve ZBH				Technical (data ➤ Internet: zbh
	35	For centring gripper jaw blanks/gripper fingers on the	1	189652	ZBH-5	10
	40	gripper jaws	1	186717	ZBH-7	
	50, 63, 80		1	150927	ZBH-9	
Blanking plu	ug B			T	「echnical data → In	ternet: blanking plug
\sim	35, 40	For sealing the supply ports	1	174308	B-M5-B	10
	50, 63, 80		5	3568	B-1/8	
<u> </u>		•	•			•

¹⁾ Packaging unit

Ordering data	Ordering data − Proximity sensors for T-slot, magneto-resistive Technical data → Internet: sm						
	Type of mounting	Electrical connection,	Switching	Cable length	Part No.	Туре	
		connection direction	output	[m]			
N/O contact	N/O contact						
A	Insertable in the slot	Cable, 3-wire, lateral	PNP	2.5	547859	SMT-8G-PS-24V-E-2,5Q-0E	
	lengthwise	Plug M8x1, 3-pin, lateral		0.3	547860	SMT-8G-PS-24V-E-0,3Q-M8D	



Ordering data	Ordering data – Position transmitters for T-slot Technical data → Internet: sma						
	Type of mounting	Electrical connection,	Analogue output	Cable length	Part No.	Type	
		connection direction	[V]	[m]			
~	Insertable in the slot from	Plug M8x1, 3-pin, in-line	0 10	0.3	553744	SMAT-8M-U-E-0,3-M8D	
ST. ST.	above						
V							

- 闄 - Note	
Mode of operation:	has an analogue output with an out-
The position transmitter continuously	put signal in proportion to the piston
senses the position of the piston. It	position.

Proximity sensor for size 35						
Ordering data − Proximity sensors 3 mm (round design), inductive Technical data → Inte						
	Electrical connection		Switching output	Cable length [m]	Part No.	Туре
N/O contact						
	Cable, 3-wire		PNP	2.5	538264	SIEH-3B-PS-K-L
	Plug M8x1, 3-pin	•		-	538263	SIEH-3B-PS-S-L

Proximity sens	Proximity sensor for size 40 80						
Ordering data	Ordering data - Proximity sensors M8 (round design), inductive Technical data → Internet: sien						
	Electrical connection	LED	Switching	Cable length	Part No.	Туре	
			output	[m]			
N/O contact	N/O contact						
	Cable, 3-wire	•	PNP	2.5	150386	SIEN-M8B-PS-K-L	
	Plug M8x1, 3-pin	•		_	150387	SIEN-M8B-PS-S-L	

Ordering data − Connecting cables Technical data → Internet:							
	Electrical connection, left	Electrical connection, right	Cable length [m]	Part No.	Туре		
	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		