

## Parallel grippers HGPL-B, heavy-duty with long stroke

**FESTO**



## Parallel grippers HGPL-B, heavy-duty with long stroke

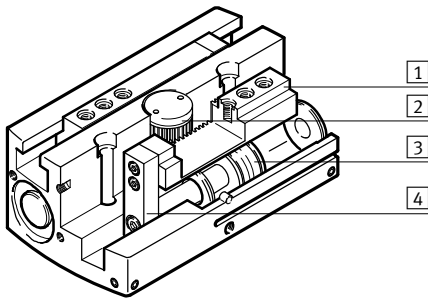
Key features

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### At a glance

- **Sturdy**  
The T-slot in combination with the long guide length allows for high forces and torques
- **Space-saving**  
Two parallel and opposing pistons move the gripper jaws directly and without loss of force
- **Position sensing**  
Every position of the gripper jaws can be sensed in analogue using the position sensor SDAT
- **Connections for lubrication nipples** on the top and underneath of the gripper
- **Double-acting gripper** – suitable for external and internal gripping

### The technology in detail



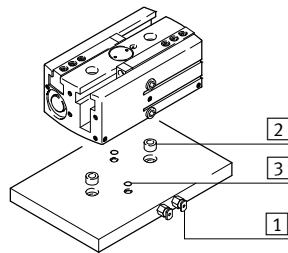
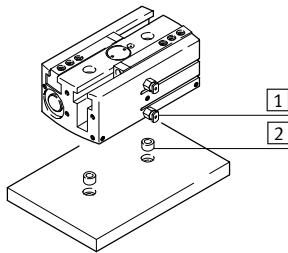
- 1 Gripper jaws
- 2 Synchronising element
- 3 Piston with magnet
- 4 Moment compensator

 **Note**  
Engineering software  
Gripper selection  
→ [www.festo.com](http://www.festo.com)

### Wide range of supply ports

Direct  
From the front

Via adapter plate  
From underneath

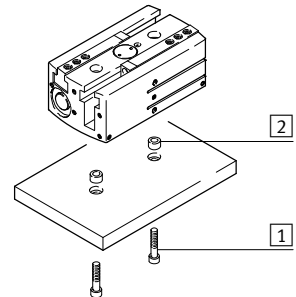
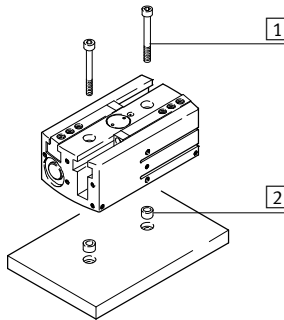


- 1 Supply ports
- 2 Centring sleeves
- 3 O-rings

### Mounting options

Direct mounting  
From above

From underneath



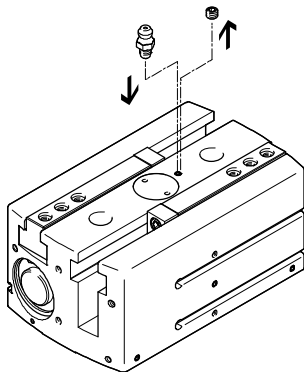
- 1 Mounting screws
- 2 Centring sleeves

# Parallel grippers HGPL-B, heavy-duty with long stroke

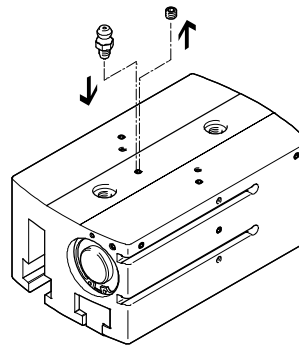
Key features and type codes

## Connections for lubrication nipples

Top

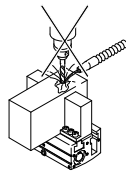


Underneath

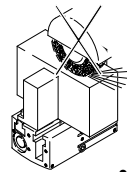


Note

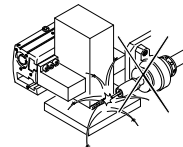
These grippers are not suitable for the following or similar applications:



- Aggressive media
- Machining



- Grinding dust



- Welding spatter

## Type codes

|                         |                      |      |   |    |   |    |   |   |   |   |
|-------------------------|----------------------|------|---|----|---|----|---|---|---|---|
|                         |                      | HGPL | – | 14 | – | 40 | – | A | – | B |
| <b>Type</b>             |                      |      |   |    |   |    |   |   |   |   |
| HGPL                    | Parallel gripper     |      |   |    |   |    |   |   |   |   |
| <b>Size</b>             |                      |      |   |    |   |    |   |   |   |   |
| <b>Stroke [mm]</b>      |                      |      |   |    |   |    |   |   |   |   |
| <b>Position sensing</b> |                      |      |   |    |   |    |   |   |   |   |
| A                       | Via proximity sensor |      |   |    |   |    |   |   |   |   |
| <b>Variant</b>          |                      |      |   |    |   |    |   |   |   |   |
| B                       | B series             |      |   |    |   |    |   |   |   |   |

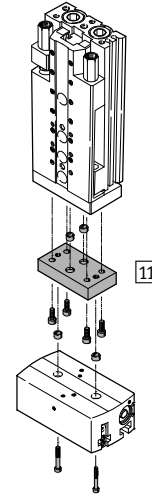
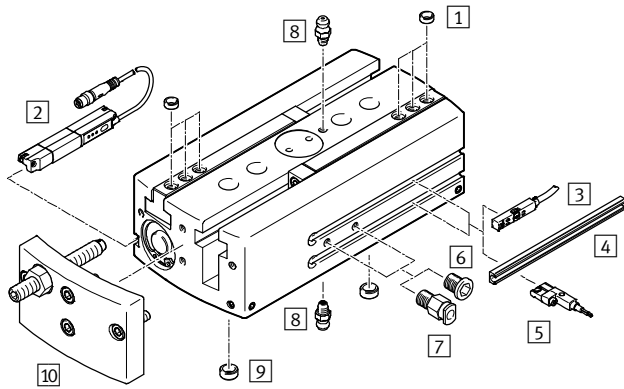
# Parallel grippers HGPL-B, heavy-duty with long stroke

Peripherals overview

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## Peripherals overview

## System product for handling and assembly technology

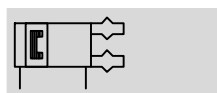


| Accessories                                |                                                                                                                                                                        |  |                 |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|
| Type                                       | Description                                                                                                                                                            |  | → Page/Internet |
| [1] Centring sleeve<br>ZBH                 | <ul style="list-style-type: none"> <li>For centring the gripper jaw blanks/gripper fingers on the gripper jaws</li> <li>4 included in the scope of delivery</li> </ul> |  | 19              |
| [2] Position transmitter<br>SDAT           | <ul style="list-style-type: none"> <li>For sensing the piston position at any location</li> <li>The position transmitter can only be used in this slot</li> </ul>      |  | 22              |
| [3] Proximity sensor<br>SME/SMT-8          | For sensing the piston position in the end positions                                                                                                                   |  | 20              |
| [4] Sensor rail<br>DASP                    | Gluing this into the sensor slots allows for proximity sensors SME/SMT-10 to be used                                                                                   |  | 21              |
| [5] Proximity sensor<br>SME/SMT-10         | For sensing the piston position in the end positions                                                                                                                   |  | 21              |
| [6] Blanking plug<br>B                     | For sealing the supply ports when using the ports at the front side                                                                                                    |  | 19              |
| [7] Push-in fitting<br>QS                  | For connecting compressed air tubing with standard outside diameters                                                                                                   |  | qs              |
| [8] Lubrication nipples                    | <ul style="list-style-type: none"> <li>For relubricating the guide</li> <li>1 included in the scope of delivery</li> </ul>                                             |  | –               |
| [9] Centring sleeve<br>ZBH                 | <ul style="list-style-type: none"> <li>For centring the gripper during mounting</li> <li>2 included in the scope of delivery</li> </ul>                                |  | 19              |
| [10] Stroke reducing kit<br>HGPL-HR-...    | For reducing the opening stroke                                                                                                                                        |  | 18              |
| [11] Adapter kit<br>DHAA, HMSV, HMVA, HAPG | Drive/gripper connections                                                                                                                                              |  | 15              |
| – Gripper jaw blank<br>BUB-HGPL            | Unmachined parts specially matched to the gripper jaws for custom production of gripper fingers                                                                        |  | 19              |

# Parallel grippers HGPL-B, heavy-duty with long stroke

Technical data

Function  
Double-acting  
HGPL-...



-  Size  
14 ... 63
-  Total stroke  
40 ... 300 mm



| General technical data                           |                                                                                  |                |                     |              |
|--------------------------------------------------|----------------------------------------------------------------------------------|----------------|---------------------|--------------|
| Size                                             | 14                                                                               | 25             | 40                  | 63           |
| Design                                           | Rack and pinion<br>Twin piston, piston spool valve<br>T-shape                    |                |                     |              |
| Mode of operation                                | Double-acting                                                                    |                |                     |              |
| Gripper function                                 | Parallel                                                                         |                |                     |              |
| Number of gripper jaws                           | 2                                                                                |                |                     |              |
| Stroke per gripper jaw [mm]                      | 20, 40, 60, 80                                                                   | 20, 40, 60, 80 | 20, 40, 60, 80, 100 | 60, 100, 150 |
| Pneumatic connection                             | M5                                                                               |                |                     | G1/8         |
| Max. weight per gripper finger <sup>1)</sup> [g] | 80                                                                               | 250            | 420                 | 940          |
| Repetition accuracy <sup>2)</sup> [mm]           | < 0.03                                                                           |                |                     |              |
| Max. interchangeability [mm]                     | < 0.2                                                                            |                |                     |              |
| Max. operating frequency [Hz]                    | < 1                                                                              |                |                     |              |
| Rotational symmetry [mm]                         | < Ø 0.2                                                                          |                |                     |              |
| Position sensing                                 | Via proximity sensor                                                             |                |                     |              |
| Type of mounting                                 | Via through-holes and centring sleeves<br>Via female thread and centring sleeves |                |                     |              |
| Mounting position                                | Any                                                                              |                |                     |              |

1) Applies to unthrottled operation

2) End-position drift under constant operating conditions with 100 consecutive strokes in the direction of movement of the gripper jaws

| Operating and environmental conditions       |                                                                                            |
|----------------------------------------------|--------------------------------------------------------------------------------------------|
| Operating pressure [bar]                     | 3 ... 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 <sup>1)</sup> [°C]       | +5 ... +60                                                                                 |
| Corrosion resistance class CRC <sup>2)</sup> | 2                                                                                          |

1) Note operating range of proximity sensors

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

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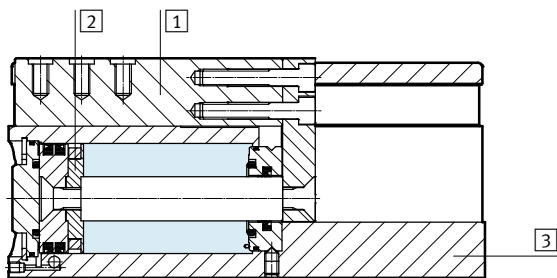
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Technical data

| Weight [g]             |        |     |      |      |       |
|------------------------|--------|-----|------|------|-------|
| Size                   |        | 14  | 25   | 40   | 63    |
| Stroke per gripper jaw | 20 mm  | 305 | 1015 | 2560 | –     |
|                        | 40 mm  | 440 | 1400 | 3300 | –     |
|                        | 60 mm  | 595 | 1780 | 4165 | 10460 |
|                        | 80 mm  | 720 | 2200 | 4800 | –     |
|                        | 100 mm | –   | –    | 5340 | 13800 |
|                        | 150 mm | –   | –    | –    | 18100 |

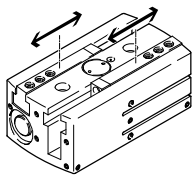
### Materials

Sectional view



| Parallel gripper |                   |                                           |
|------------------|-------------------|-------------------------------------------|
| 1                | Gripper jaw       | Steel, nitrided                           |
| 2                | Piston            | High-alloy steel                          |
| 3                | Housing           | Wrought aluminium alloy, hard-anodised    |
| –                | Seals             | NBR, polyurethane                         |
| –                | Note on materials | Free of copper and PTFE<br>RoHS compliant |

Measured gripping force [N] at 6 bar (→ also see graphs starting on page 9)

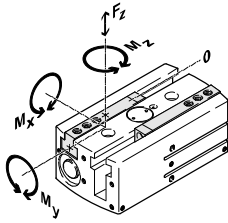


| Size                           | 14  | 25  | 40   | 63   |
|--------------------------------|-----|-----|------|------|
| Gripping force per gripper jaw |     |     |      |      |
| Opening                        | 63  | 206 | 519  | 1233 |
| Closing                        | 79  | 256 | 608  | 1371 |
| Total gripping force           |     |     |      |      |
| Opening                        | 126 | 412 | 1038 | 2466 |
| Closing                        | 158 | 512 | 1216 | 2742 |

# Parallel grippers HGPL-B, heavy-duty with long stroke

Technical data

## Characteristic load values at the gripper jaws

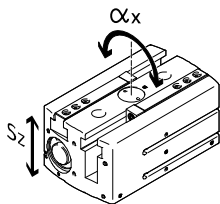


The indicated permissible forces and torques apply to a single gripper jaw. They include the lever arm, additional weight forces due to the workpiece or external gripper fingers and

acceleration forces occurring during movement. The zero co-ordinate line (gripper jaw guide groove) must be taken into consideration for the calculation of torques.

| Size                          |      | 14  | 25   | 40   | 63   |
|-------------------------------|------|-----|------|------|------|
| Max. permissible force $F_z$  | [N]  | 500 | 1500 | 2500 | 9000 |
| Max. permissible torque $M_x$ | [Nm] | 35  | 100  | 125  | 300  |
| Max. permissible torque $M_y$ | [Nm] | 35  | 60   | 80   | 200  |
| Max. permissible torque $M_z$ | [Nm] | 35  | 70   | 100  | 250  |

## Gripper jaw backlash

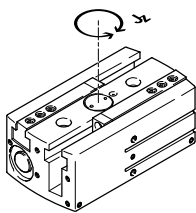


The plain-bearing guide used in the grippers means that there is backlash between the gripper jaws and the housing.

The values listed in the table apply when new

| Size                                    |      | 14     | 25 | 40 | 63 |
|-----------------------------------------|------|--------|----|----|----|
| Gripper jaw backlash $s_z$              | [mm] | < 0.05 |    |    |    |
| Gripper jaw angular backlash $\alpha_x$ | [°]  | < 0.2  |    |    |    |

## Mass moments of inertia [kgm<sup>2</sup>x10<sup>-4</sup>]



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

| Size                   |        | 14    | 25    | 40     | 63      |
|------------------------|--------|-------|-------|--------|---------|
| Stroke per gripper jaw | 20 mm  | 1.40  | 11.98 | 27.60  | –       |
|                        | 40 mm  | 6.69  | 18.88 | 66.83  | –       |
|                        | 60 mm  | 11.43 | 39.95 | 118.30 | 470.07  |
|                        | 80 mm  | 21.93 | 78.70 | 198.87 | –       |
|                        | 100 mm | –     | –     | 318.25 | 1018.17 |
|                        | 150 mm | –     | –     | –      | 2247.54 |

## Parallel grippers HGPL-B, heavy-duty with long stroke

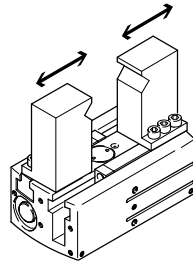
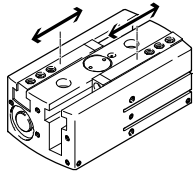
Technical data

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### Opening and closing times [ms] at 6 bar

Without external gripper fingers

With external gripper fingers



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

gripper fingers. The grippers must be throttled for greater weights [g]. Opening and closing times must then be adjusted accordingly.

| Size                                                                                                   | 14    |     |     |     | 25  |     |     |     |
|--------------------------------------------------------------------------------------------------------|-------|-----|-----|-----|-----|-----|-----|-----|
| Stroke [mm]                                                                                            | 20    | 40  | 60  | 80  | 20  | 40  | 60  | 80  |
| Without external gripper fingers                                                                       |       |     |     |     |     |     |     |     |
| Opening times                                                                                          | 120   | 171 | 270 | 286 | 170 | 225 | 370 | 423 |
| Closing times                                                                                          | 110   | 163 | 230 | 270 | 150 | 230 | 370 | 418 |
| Max. permissible opening and closing times with external gripper fingers (as a function of the weight) |       |     |     |     |     |     |     |     |
| Weight of gripper fingers                                                                              | 100 g | 123 | 108 | 257 | 243 | –   | –   | –   |
|                                                                                                        | 200 g | 174 | 136 | 364 | 343 | –   | –   | –   |
|                                                                                                        | 300 g | 213 | 167 | 445 | 420 | 164 | 210 | 405 |
|                                                                                                        | 400 g | 246 | 192 | 514 | 485 | 190 | 243 | 468 |
|                                                                                                        | 500 g | –   | –   | –   | –   | 212 | 272 | 523 |

| Size                                                                                                   | 40     |     |     |     | 63  |     |     |      |
|--------------------------------------------------------------------------------------------------------|--------|-----|-----|-----|-----|-----|-----|------|
| Stroke [mm]                                                                                            | 20     | 40  | 60  | 80  | 100 | 60  | 100 | 150  |
| Without external gripper fingers                                                                       |        |     |     |     |     |     |     |      |
| Opening times                                                                                          | 190    | 238 | 430 | 414 | 620 | 410 | 650 | 1020 |
| Closing times                                                                                          | 180    | 205 | 430 | 438 | 690 | 330 | 600 | 850  |
| Max. permissible opening and closing times with external gripper fingers (as a function of the weight) |        |     |     |     |     |     |     |      |
| Weight of the gripper fingers                                                                          | 500 g  | 196 | 260 | 469 | 478 | 676 | –   | –    |
|                                                                                                        | 600 g  | 215 | 284 | 514 | 524 | 741 | –   | –    |
|                                                                                                        | 700 g  | 232 | 307 | 555 | 565 | 800 | –   | –    |
|                                                                                                        | 800 g  | 248 | 328 | 593 | 604 | 856 | –   | –    |
|                                                                                                        | 900 g  | –   | –   | –   | –   | –   | 323 | 587  |
|                                                                                                        | 1000 g | –   | –   | –   | –   | –   | 340 | 619  |
|                                                                                                        | 1100 g | –   | –   | –   | –   | –   | 357 | 649  |
|                                                                                                        | 1200 g | –   | –   | –   | –   | –   | 373 | 678  |

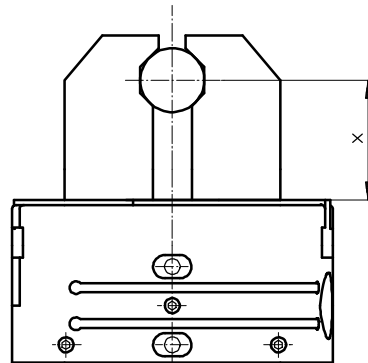


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Technical data

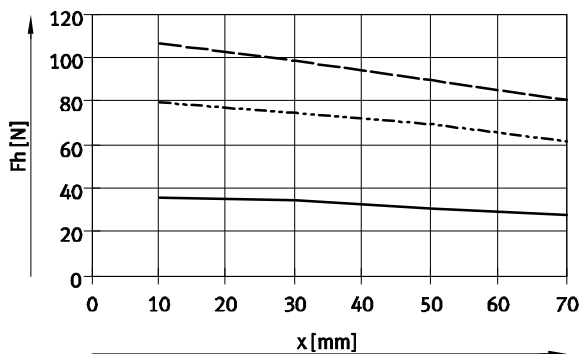
## Gripping force $F_h$ per gripper jaw as a function of operating pressure and lever arm $x$

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

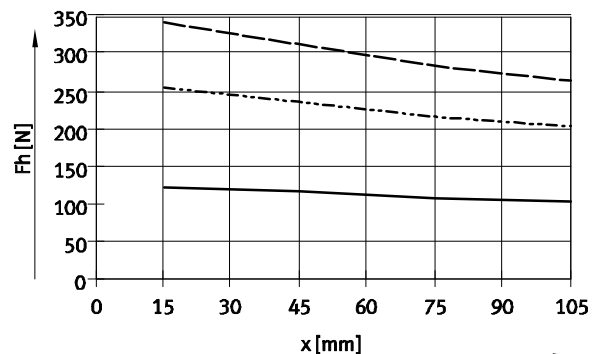


### External gripping (closing)

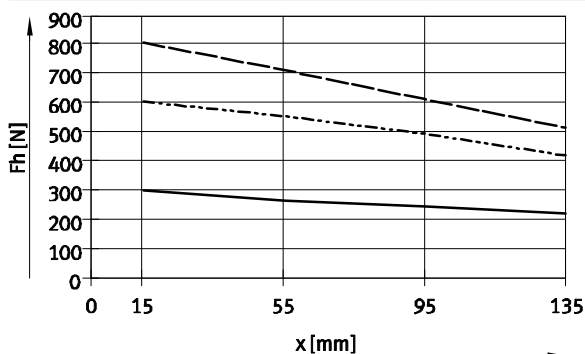
HGPL-14



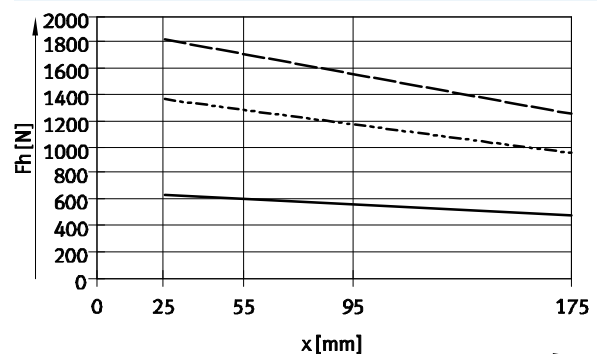
HGPL-25



HGPL-40



HGPL-63



— 3 bar  
 - - - 6 bar  
 - · - 8 bar

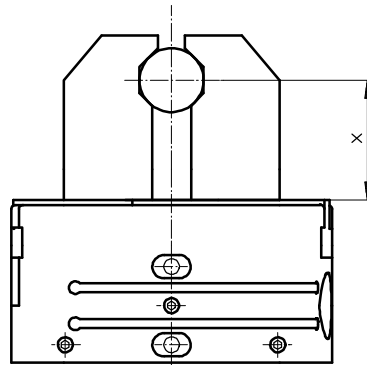
## Parallel grippers HGPL-B, heavy-duty with long stroke

Technical data

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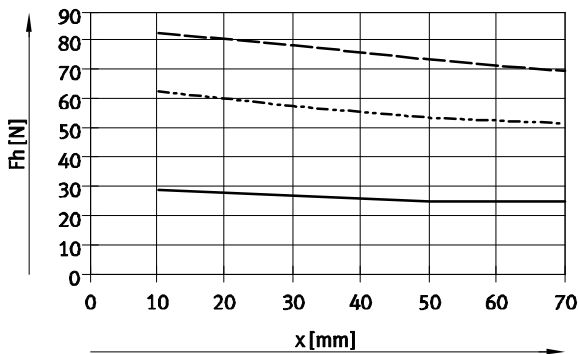
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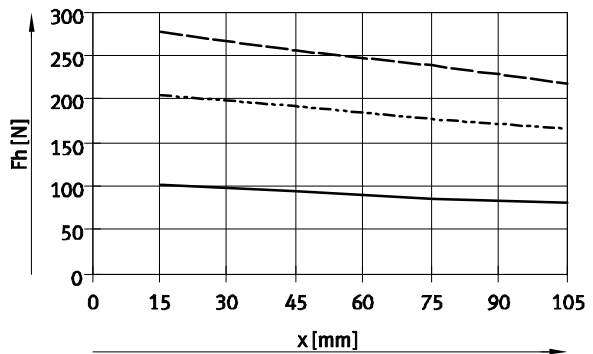


#### Internal gripping (opening)

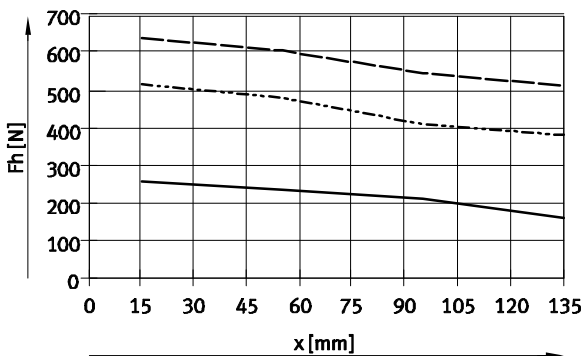
HGPL-14



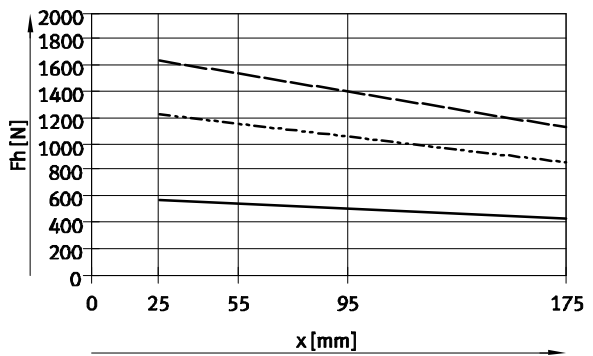
HGPL-25



HGPL-40



HGPL-63



— 3 bar  
 - - - 6 bar  
 - · - 8 bar

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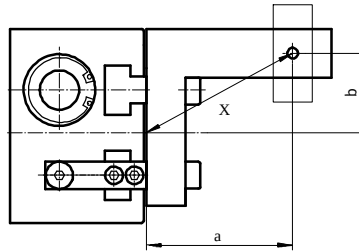
Technical data

### 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 (→ 9) using the calculated value  $x$ .



### Calculation example

Given:

Distance  $a = 45$  mm

Distance  $b = 40$  mm

To be found:

The gripping force at 6 bar  
with an HGPL-25 used as an external  
gripper

Approach:

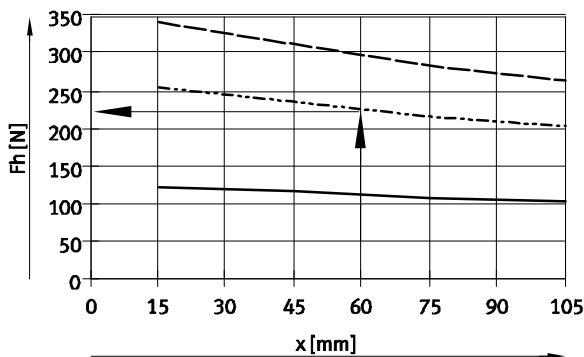
Calculating the lever arm  $x$

$$x = \sqrt{45^2 + 40^2}$$

$$x = 60$$
 mm

The graph (→ 9) gives a value of

$F_h = 225$  N for the gripping force.



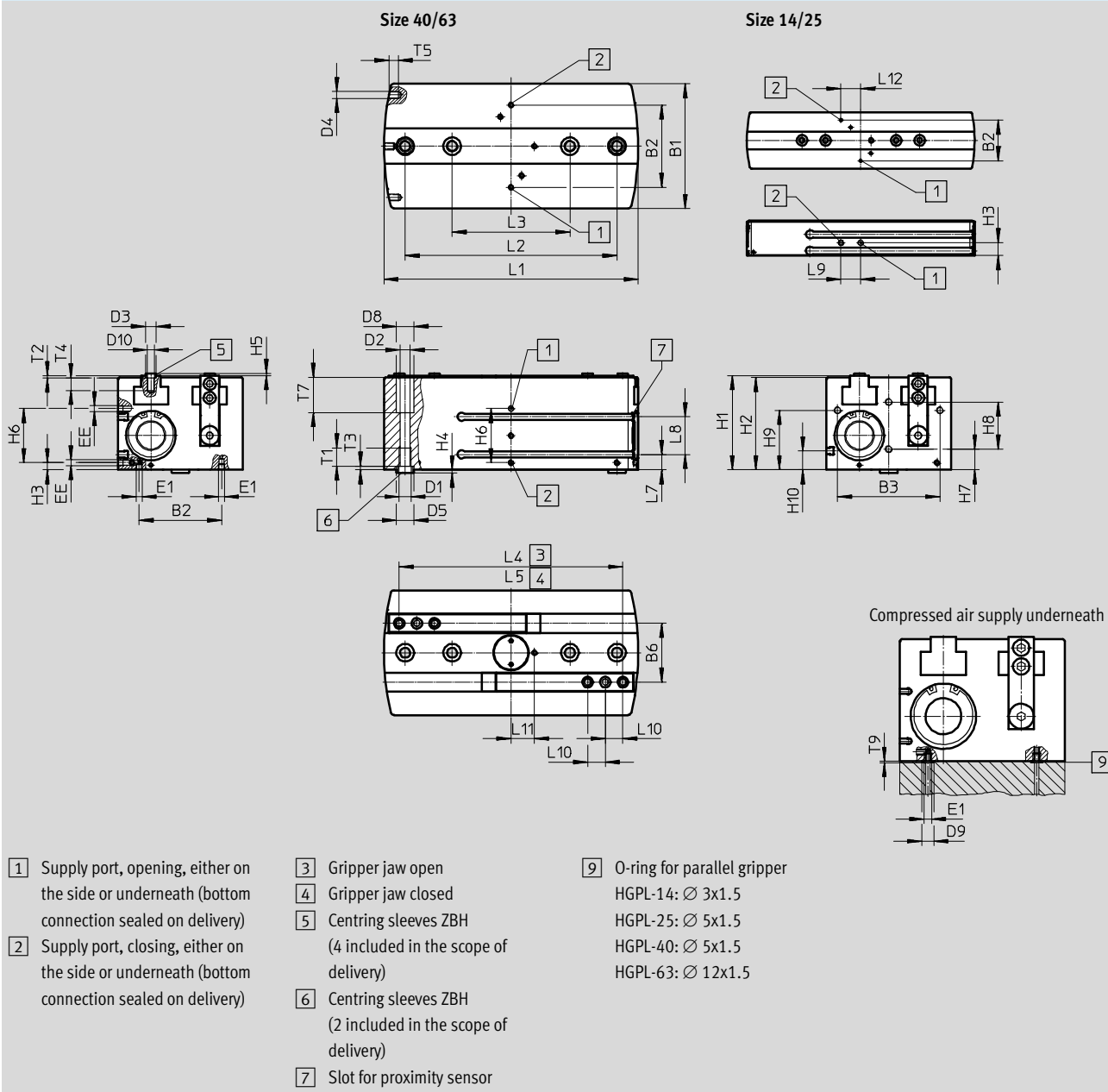
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Technical data

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### Dimensions

Download CAD data → [www.festo.com](http://www.festo.com)



## Parallel grippers HGPL-B, heavy-duty with long stroke

Technical data

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| Type    | B1<br>±0.05 | B2       | B3      | B6<br>±0.01 | D1  | D2<br>∅<br>+0.1 | D3<br>∅<br>H8/h7 | D4  | D5<br>∅<br>H8/h7 | D8<br>∅<br>H13 | D9 | D10 | EE | E1 |
|---------|-------------|----------|---------|-------------|-----|-----------------|------------------|-----|------------------|----------------|----|-----|----|----|
| HGPL-14 | 48          | 34.5±0.1 | 40±0.2  | 22          | M5  | 4.2             | 5                | M3  | 9                | 7.4            | 6  | M3  | M5 | M3 |
| HGPL-25 | 80          | 60±0.2   | 65±0.1  | 38          | M6  | 5.1             | 7                | M5  | 9                | 10             | 8  | M5  | M5 | M5 |
| HGPL-40 | 106         | 70±0.2   | 87±0.1  | 50          | M10 | 8.5             | 9                | M6  | 15               | 15             | 8  | M6  | M5 | M5 |
| HGPL-63 | 154         | 116±0.2  | 130±0.1 | 78          | M12 | 10.4            | 15               | M 8 | 15               | 16.5           | 15 | M10 | G½ | G½ |

| Type        | H1    | H2<br>±0.05 | H3<br>±0.1 | H4<br>-0.3 | H5<br>-0.3 | H6     | H7<br>±0.1 | H8<br>±0.1 | H9<br>±0.1 | H10<br>±0.1 | L1<br>±0.05 | L2 <sup>1)2)</sup> | L3 <sup>1)2)</sup> | L4<br>±0.5 |
|-------------|-------|-------------|------------|------------|------------|--------|------------|------------|------------|-------------|-------------|--------------------|--------------------|------------|
| HGPL-14-20  | 30    | 29          | 11         | 1.9        | 1.2        | -      | 10         | 12         | 24.4       | 4           | 73.6        | 36                 | -                  | 62         |
| HGPL-14-40  |       |             |            |            |            |        |            |            |            |             | 113.6       | 60                 | -                  | 102        |
| HGPL-14-60  |       |             |            |            |            |        |            |            |            |             | 153.6       | 100                | 60                 | 142        |
| HGPL-14-80  |       |             |            |            |            |        |            |            |            |             | 193.6       | 100                | 60                 | 182        |
| HGPL-25-20  | 50    | 49          | 18         | 1.9        | 1.4        | -      | 18         | 20         | 30         | 11          | 86          | 60                 | -                  | 64         |
| HGPL-25-40  |       |             |            |            |            |        |            |            |            |             | 126         | 60                 | -                  | 104        |
| HGPL-25-60  |       |             |            |            |            |        |            |            |            |             | 166         | 100                | 60                 | 144        |
| HGPL-25-80  |       |             |            |            |            |        |            |            |            |             | 206         | 100                | 60                 | 184        |
| HGPL-40-20  | 80    | 78.5        | 6          | 2.9        | 1.9        | 46±0.2 | 17.5       | 40         | 50.5       | 16          | 96          | 66                 | -                  | 70         |
| HGPL-40-40  |       |             |            |            |            |        |            |            |            |             | 136         | 100                | -                  | 110        |
| HGPL-40-60  |       |             |            |            |            |        |            |            |            |             | 176         | 100                | -                  | 150        |
| HGPL-40-80  |       |             |            |            |            |        |            |            |            |             | 216         | 180                | 100                | 190        |
| HGPL-40-100 | 121.5 | 120         | 14         | 2.9        | 2.9        | 60±0.1 | 30         | 58         | 75         | 28.5        | 256         | 200                | 100                | 230        |
| HGPL-63-60  |       |             |            |            |            |        |            |            |            |             | 190.8       | 100                | -                  | 160        |
| HGPL-63-100 |       |             |            |            |            |        |            |            |            |             | 270         | 200                | 100                | 240        |
| HGPL-63-150 |       |             |            |            |            |        |            |            |            |             | 370         | 300                | 100                | 340        |

| Type        | L5<br>±0.5 | L7<br>±0.1 | L8<br>±0.1 | L9       | L10 <sup>1)2)</sup> | L11     | L12<br>±0.1 | T1<br>Max. | T2<br>+0.1 | T3<br>+0.1 | T4<br>Min. | T5<br>Min. | T7<br>+0.1 | T9 |
|-------------|------------|------------|------------|----------|---------------------|---------|-------------|------------|------------|------------|------------|------------|------------|----|
| HGPL-14-20  | 22         | 4.2        | 14         | 16.8±0.2 | 8                   | 7.5±0.1 | 16.8        | 12.5       | 1.3        | 2.1        | 5.5        | 6.5        | 10         | 1  |
| HGPL-14-40  |            |            |            |          |                     | 9±0.1   |             |            |            |            |            |            |            |    |
| HGPL-14-60  |            |            |            |          |                     | 9±0.1   |             |            |            |            |            |            |            |    |
| HGPL-14-80  |            |            |            |          |                     | 9±0.1   |             |            |            |            |            |            |            |    |
| HGPL-25-20  | 24         | 11         | 14         | 20±0.1   | 10                  | 17±0.2  | 20          | 12.5       | 1.6        | 2.1        | 8.5        | 7.5        | 17         | 1  |
| HGPL-25-40  |            |            |            |          |                     |         |             |            |            |            |            |            |            |    |
| HGPL-25-60  |            |            |            |          |                     |         |             |            |            |            |            |            |            |    |
| HGPL-25-80  |            |            |            |          |                     |         |             |            |            |            |            |            |            |    |
| HGPL-40-20  | 30         | 13         | 32         | -        | 15                  | 20±0.1  | -           | 15.5       | 2.1        | 3.1        | 10.5       | 8          | 30         | 1  |
| HGPL-40-40  |            |            |            |          |                     |         |             |            |            |            | 12.6       |            |            |    |
| HGPL-40-60  |            |            |            |          |                     |         |             |            |            |            | 10.5       |            |            |    |
| HGPL-40-80  |            |            |            |          |                     |         |             |            |            |            | 10.5       |            |            |    |
| HGPL-40-100 | 40         | 28.5       | 30         | -        | 22                  | 28±0.1  | -           | 18         | 3.1        | 3.1        | 17.5       | 12         | 45         | 1  |
| HGPL-63-60  |            |            |            |          |                     |         |             |            |            |            |            |            |            |    |
| HGPL-63-100 |            |            |            |          |                     |         |             |            |            |            |            |            |            |    |
| HGPL-63-150 |            |            |            |          |                     |         |             |            |            |            |            |            |            |    |

- 1) ±0.02 for centring  
2) ±0.1 for through-hole

## Parallel grippers HGPL-B, heavy-duty with long stroke

**FESTO**

Technical data

| Ordering data |                |                |                        |
|---------------|----------------|----------------|------------------------|
| Size          | Stroke<br>[mm] | Part No.       | Type                   |
| <b>14</b>     |                |                |                        |
|               | 20             | <b>3361479</b> | <b>HGPL-14-20-A-B</b>  |
|               | 40             | <b>3361480</b> | <b>HGPL-14-40-A-B</b>  |
|               | 60             | <b>3361481</b> | <b>HGPL-14-60-A-B</b>  |
|               | 80             | <b>3361482</b> | <b>HGPL-14-80-A-B</b>  |
| <b>25</b>     |                |                |                        |
|               | 20             | <b>3361483</b> | <b>HGPL-25-20-A-B</b>  |
|               | 40             | <b>3361484</b> | <b>HGPL-25-40-A-B</b>  |
|               | 60             | <b>3361485</b> | <b>HGPL-25-60-A-B</b>  |
|               | 80             | <b>3361486</b> | <b>HGPL-25-80-A-B</b>  |
| <b>40</b>     |                |                |                        |
|               | 20             | <b>3361487</b> | <b>HGPL-40-20-A-B</b>  |
|               | 40             | <b>3361488</b> | <b>HGPL-40-40-A-B</b>  |
|               | 60             | <b>3361489</b> | <b>HGPL-40-60-A-B</b>  |
|               | 80             | <b>3361490</b> | <b>HGPL-40-80-A-B</b>  |
|               | 100            | <b>3361491</b> | <b>HGPL-40-100-A-B</b> |
| <b>63</b>     |                |                |                        |
|               | 60             | <b>3361492</b> | <b>HGPL-63-60-A-B</b>  |
|               | 100            | <b>3361493</b> | <b>HGPL-63-100-A-B</b> |
|               | 150            | <b>3361494</b> | <b>HGPL-63-150-A-B</b> |

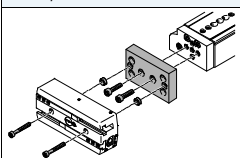
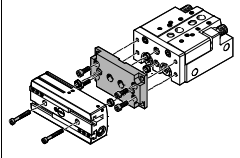
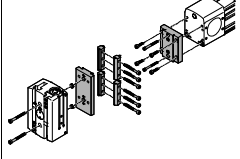
# Parallel grippers HGPL-B, heavy-duty with long stroke

Accessories

**Adapter kit**  
DHAA, HAPG, HMSV, HMVA

Materials:  
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 → <a href="http://www.festo.com">www.festo.com</a> |          |                    |
|-------------------------------------------------------------------------------------|--------|---------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|----------|--------------------|
| Combination                                                                         | Drive  | Gripper             |                                                                                   | Adapter kit                                                                       | CRC <sup>1)</sup>                                                    | Part No. | Type               |
|                                                                                     | Size   | Size                | Mounting option                                                                   |                                                                                   |                                                                      |          |                    |
|                                                                                     |        |                     |  |  |                                                                      |          |                    |
| DGSL/HGPL                                                                           | DGSL   | HGPL                |                                                                                   |                                                                                   | DHAA, HAPG                                                           |          |                    |
|    | 16     | 14-20               | ■                                                                                 | ■                                                                                 | 2                                                                    | 2406159  | DHAA-G-G6-16-B6-14 |
|                                                                                     | 20, 25 | 14-20               | ■                                                                                 | ■                                                                                 |                                                                      | 2410181  | DHAA-G-G6-20-B6-14 |
|                                                                                     | 16     | 14-40, 14-60, 14-80 | ■                                                                                 | ■                                                                                 |                                                                      | 538055   | HAPG-89            |
|                                                                                     | 20, 25 | 14-40, 14-60, 14-80 | ■                                                                                 | ■                                                                                 |                                                                      | 539274   | HAPG-90            |
|                                                                                     | 25     | 25                  | ■                                                                                 | ■                                                                                 |                                                                      | 539274   | HAPG-90            |
|                                                                                     |        |                     |                                                                                   |                                                                                   |                                                                      |          |                    |
| SLT/HGPL                                                                            | SLT    | HGPL                |                                                                                   |                                                                                   | DHAA, HAPG                                                           |          |                    |
|   | 16     | 14-20               | ■                                                                                 | —                                                                                 | 2                                                                    | 2404522  | DHAA-G-G3-16-B6-14 |
|                                                                                     | 20     | 14-20               | ■                                                                                 | —                                                                                 |                                                                      | 2406709  | DHAA-G-G3-20-B6-14 |
|                                                                                     | 25     | 14-20               | ■                                                                                 | —                                                                                 |                                                                      | 2408600  | DHAA-G-G3-25-B6-14 |
|                                                                                     | 16     | 14-40, 14-60, 14-80 | ■                                                                                 | —                                                                                 |                                                                      | 538055   | HAPG-89            |
|                                                                                     | 20, 25 | 14-40, 14-60, 14-80 | ■                                                                                 | —                                                                                 |                                                                      | 539274   | HAPG-90            |
|                                                                                     | 20, 25 | 25                  | ■                                                                                 | —                                                                                 |                                                                      | 539274   | HAPG-90            |
|                                                                                     |        |                     |                                                                                   |                                                                                   |                                                                      |          |                    |
| DGP..., DGE..., DGEA/HGPL                                                           | DG...  | HGPL                |                                                                                   |                                                                                   | HAPG, HMSV, HMVA                                                     |          |                    |
|  | 40     | 25                  | ■                                                                                 | ■                                                                                 | 2                                                                    | 196790   | HMVA-DLA40         |
|                                                                                     |        |                     |                                                                                   |                                                                                   |                                                                      | 177653   | HMSV-7             |
|                                                                                     |        |                     |                                                                                   |                                                                                   |                                                                      | 539887   | HAPG-92            |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070  
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

## Parallel grippers HGPL-B, heavy-duty with long stroke

Accessories

**FESTO**

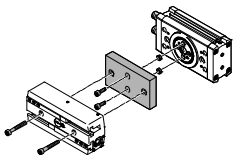
**Adapter kit  
DHAA**

Materials:  
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 → <a href="http://www.festo.com">www.festo.com</a> |          |                                  |
|-----------------------------------------------------------------------------------|--------|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|----------|----------------------------------|
| Combination                                                                       | Drive  | Gripper                     | Mounting option                                                                   |                                                                                   | Adapter kit                                                          |          |                                  |
|                                                                                   | Size   | Size                        |  |  | CRC <sup>1)</sup>                                                    | Part No. | Type                             |
| DRRD/HGPL                                                                         | DRRD   | HGPL                        |                                                                                   |                                                                                   |                                                                      |          |                                  |
|  | 16     | 14-20                       | ■                                                                                 | ■                                                                                 | 2                                                                    | 2019271  | DHAA-G-Q11-16-B6-14-20           |
|                                                                                   | 16     | 14-40                       | ■                                                                                 | ■                                                                                 |                                                                      | 2019618  | DHAA-G-Q11-16-B6-14-40           |
|                                                                                   | 16     | 14-60, 14-80                | ■                                                                                 | ■                                                                                 |                                                                      | 2019640  | DHAA-G-Q11-16-B6-14-60/80        |
|                                                                                   | 20     | 14-20                       | ■                                                                                 | ■                                                                                 |                                                                      | 2018509  | DHAA-G-Q11-20-B6-14-20           |
|                                                                                   | 20     | 14-40                       | ■                                                                                 | ■                                                                                 |                                                                      | 2018553  | DHAA-G-Q11-20-B6-14-40           |
|                                                                                   | 20     | 14-60, 14-80                | ■                                                                                 | ■                                                                                 |                                                                      | 2018986  | DHAA-G-Q11-20-B6-14-60/80        |
|                                                                                   | 25     | 14-20                       | ■                                                                                 | ■                                                                                 |                                                                      | 1813646  | DHAA-G-Q11-25-B6-14-20           |
|                                                                                   | 25     | 14-40                       | ■                                                                                 | ■                                                                                 |                                                                      | 1734087  | DHAA-G-Q11-25-B6-14-40           |
|                                                                                   | 25     | 14-60, 14-80                | ■                                                                                 | ■                                                                                 |                                                                      | 2018453  | DHAA-G-Q11-25-B6-14-60/80        |
|                                                                                   | 25     | 25-20, 25-40                | ■                                                                                 | ■                                                                                 |                                                                      | 1794882  | DHAA-G-Q11-25-B6-25-20/40        |
|                                                                                   | 25     | 25-60, 25-80                | ■                                                                                 | ■                                                                                 |                                                                      | 2020149  | DHAA-G-Q11-25-B6-25-60/80        |
|                                                                                   | 32     | 25-20, 25-40                | ■                                                                                 | ■                                                                                 |                                                                      | 2021733  | DHAA-G-Q11-32-B6-25-20/40        |
|                                                                                   | 32     | 25-60, 25-80                | ■                                                                                 | ■                                                                                 |                                                                      | 2022377  | DHAA-G-Q11-32-B6-25-60/80        |
|                                                                                   | 35     | 25-20, 25-40                | ■                                                                                 | ■                                                                                 |                                                                      | 2022892  | DHAA-G-Q11-35-B6-25-20/40        |
|                                                                                   | 35     | 25-60, 25-80                | ■                                                                                 | ■                                                                                 |                                                                      | 2023095  | DHAA-G-Q11-35-B6-25-60/80        |
|                                                                                   | 35, 40 | 40-20                       | ■                                                                                 | ■                                                                                 |                                                                      | 2023665  | DHAA-G-Q11-35/40-B6-40-20        |
|                                                                                   | 35, 40 | 40-40, 40-60                | ■                                                                                 | ■                                                                                 |                                                                      | 2024121  | DHAA-G-Q11-35/40-B6-40-40/60     |
|                                                                                   | 35, 40 | 40-80, 40-100               | ■                                                                                 | ■                                                                                 |                                                                      | 2024947  | DHAA-G-Q11-35/40-B6-40-80/100    |
|                                                                                   | 50     | 40-20                       | ■                                                                                 | ■                                                                                 |                                                                      | 2387903  | DHAA-G-Q11-50-B6-40-20           |
|                                                                                   | 50     | 40-40, 40-60, 40-80, 40-100 | ■                                                                                 | ■                                                                                 |                                                                      | 2431288  | DHAA-G-Q11-50-B6-40-40/60/80/100 |
|                                                                                   | 50     | 63-60, 63-100, 63-150       | ■                                                                                 | ■                                                                                 |                                                                      | 2431624  | DHAA-G-Q11-50-B6-63-60/100/150   |

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

Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.



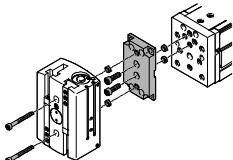
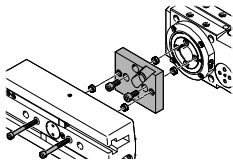
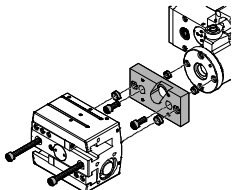
# Parallel grippers HGPL-B, heavy-duty with long stroke

Accessories

**Adapter kit**  
**DHAA, HAPG**

Materials:  
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 → <a href="http://www.festo.com">www.festo.com</a> |                                   |
|-------------------------------------------------------------------------------------|--------|-----------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------|
| Combination                                                                         | Drive  | Gripper                     |                                                                                   |                                                                                   | Adapter kit                                                          |                                   |
|                                                                                     | Size   | Size                        | Mounting option                                                                   |                                                                                   | CRC <sup>1)</sup>                                                    | Part No. Type                     |
|                                                                                     |        |                             |  |  |                                                                      |                                   |
| EGSL/HGPL                                                                           | EGSL   | HGPL                        |                                                                                   |                                                                                   | DHAA, HAPG                                                           |                                   |
|    | 45, 55 | 14-20                       | ■                                                                                 | ■                                                                                 | 2                                                                    | <b>2406159 DHAA-G-G6-16-B6-14</b> |
|                                                                                     | 75     | 14-20                       | ■                                                                                 | ■                                                                                 |                                                                      | <b>2410181 DHAA-G-G6-20-B6-14</b> |
|                                                                                     | 45, 55 | 14-40, 14-60, 14-80         | ■                                                                                 | ■                                                                                 |                                                                      | <b>538055 HAPG-89</b>             |
|                                                                                     | 75     | 14-40, 14-60, 14-80         | ■                                                                                 | ■                                                                                 |                                                                      | <b>539274 HAPG-90</b>             |
|                                                                                     | 75     | 25                          | ■                                                                                 | ■                                                                                 |                                                                      | <b>539274 HAPG-90</b>             |
| ERMB/HGPL                                                                           | ERMB   | HGPL                        |                                                                                   |                                                                                   | HAPG                                                                 |                                   |
|   | 20     | 14-40, 14-60, 14-80         | ■                                                                                 | ■                                                                                 | 2                                                                    | <b>537310 HAPG-SD2-31</b>         |
|                                                                                     | 25, 32 | 25                          | ■                                                                                 | ■                                                                                 |                                                                      | <b>537311 HAPG-SD2-29</b>         |
| EHMB/HGPL                                                                           | EHMB   | HGPL                        |                                                                                   |                                                                                   | DHAA, HAPG                                                           |                                   |
|  | 25     | 40-20                       | ■                                                                                 | ■                                                                                 | 2                                                                    | <b>2436852 DHAA-G-H2-25-B6-40</b> |
|                                                                                     | 20     | 25                          | ■                                                                                 | ■                                                                                 |                                                                      | <b>537311 HAPG-SD2-29</b>         |
|                                                                                     | 25     | 40-40, 40-60, 40-80, 40-100 | ■                                                                                 | ■                                                                                 |                                                                      | <b>537312 HAPG-SD2-30</b>         |

1) Corrosion resistance class CRC 2 to Festo standard FN 940070  
Moderate corrosion stress. Indoor applications in which condensation may occur. External visible parts with primarily decorative requirements for the surface and which are in direct contact with the ambient atmosphere typical for industrial applications.

## Parallel grippers HGPL-B, heavy-duty with long stroke

**FESTO**

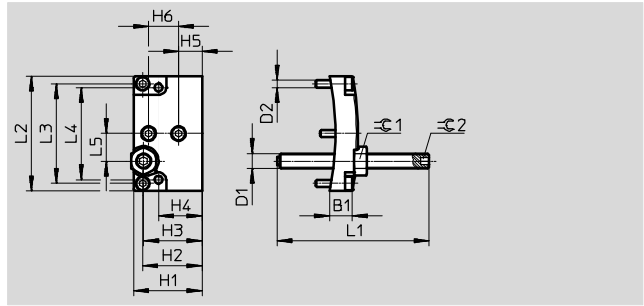
Accessories

### Stroke reducing kit HGPL-HR

Materials:

Aluminium

Free of copper and PTFE



| Dimensions and ordering data |      |     |    |       |      |      |      |      |      |
|------------------------------|------|-----|----|-------|------|------|------|------|------|
| For size                     | B1   | D1  | D2 | H1    | H2   | H3   | H4   | H5   | H6   |
|                              | ±0.1 |     |    | ±0.1  | ±0.1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |
| 14                           | 9    | M6  | M3 | 27.5  | 23.9 | 23.5 | 17.5 | 9.5  | 12   |
| 25                           | 12   | M8  | M5 | 47.5  | –    | 37.5 | 29.5 | 17.5 | 20   |
| 40                           | 18   | M12 | M6 | 77    | –    | 63   | 50   | 17   | 40   |
| 63                           | 19   | M14 | M8 | 118.5 | –    | 94.5 | 74.5 | 29.5 | 58   |

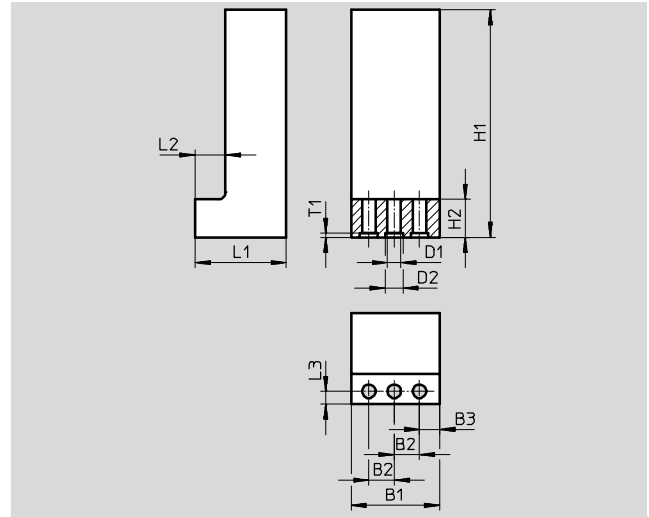
| For size | L1 | L2   | L3   | L4   | L5   | ≈C1 | ≈C2 | Weight | Part No.      | Type              |
|----------|----|------|------|------|------|-----|-----|--------|---------------|-------------------|
|          | ±1 | ±0.1 | ±0.1 | ±0.1 | ±0.1 |     |     | [g]    |               |                   |
| 14       | 61 | 46   | 40   | 37   | 11   | 10  | 3   | 45     | <b>539092</b> | <b>HGPL-HR-14</b> |
| 25       | 61 | 77   | –    | 65   | 19   | 13  | 4   | 150    | <b>539093</b> | <b>HGPL-HR-25</b> |
| 40       | 61 | 103  | –    | 87   | 25   | 19  | 6   | 455    | <b>539094</b> | <b>HGPL-HR-40</b> |
| 63       | 81 | 151  | –    | 130  | 39   | 22  | 6   | 1060   | <b>567831</b> | <b>HGPL-HR-63</b> |

## Parallel grippers HGPL-B. heavy-duty with long stroke

Accessories

### Gripper jaw blank BUB-HGPL (2 included in delivery)

Materials:  
Aluminium  
Free of copper and PTFE



| Dimensions and ordering data |      |       |    |         |         |      |    |
|------------------------------|------|-------|----|---------|---------|------|----|
| For size                     | B1   | B2    | B3 | D1<br>Ø | D2<br>Ø | H1   | H2 |
|                              | ±0.1 | +0.02 |    | +0.1    | H8      | ±0.1 |    |
| 14                           | 25   | 8     | 4  | 3.2     | 5       | 80   | 11 |
| 25                           | 35   | 10    | 8  | 5.3     | 7       | 120  | 15 |
| 40                           | 50   | 15    | 10 | 6.4     | 9       | 150  | 18 |
| 63                           | 68   | 22    | 12 | 10.5    | 15      | 200  | 20 |

| For size | L1   | L2   | L3   | T1   | Weight<br>per blank<br>[g] | Part No. | Type        |
|----------|------|------|------|------|----------------------------|----------|-------------|
|          | ±0.1 | +0.1 | +0.1 | +0.1 |                            |          |             |
| 14       | 20.5 | 8    | 3.3  | 1.3  | 75                         | 537316   | BUB-HGPL-14 |
| 25       | 36   | 12   | 5    | 1.6  | 295                        | 537317   | BUB-HGPL-25 |
| 40       | 49.5 | 16.5 | 8    | 2.1  | 720                        | 537318   | BUB-HGPL-40 |
| 63       | 77   | 27   | 12   | 3.1  | 1960                       | 567830   | BUB-HGPL-63 |

| Ordering data                                                                       |                  |               |                                          |               |                  |
|-------------------------------------------------------------------------------------|------------------|---------------|------------------------------------------|---------------|------------------|
|                                                                                     | For size<br>[mm] | Weight<br>[g] | Part No.                                 | Type          | PU <sup>1)</sup> |
| Centring sleeve for the gripper jaws ZBH                                            |                  |               | Technical data → Internet: zbh           |               |                  |
|  | 14               | 1             | <b>189652</b>                            | <b>ZBH-5</b>  | 10               |
|                                                                                     | 25               | 1             | <b>186717</b>                            | <b>ZBH-7</b>  |                  |
|                                                                                     | 40               | 1             | <b>150927</b>                            | <b>ZBH-9</b>  |                  |
|                                                                                     | 63               | 3             | <b>191409</b>                            | <b>ZBH-15</b> |                  |
| Centring sleeve for the gripper ZBH                                                 |                  |               |                                          |               |                  |
|                                                                                     |                  |               | Technical data → Internet: zbh           |               |                  |
|  | 14, 25           | 1             | <b>150927</b>                            | <b>ZBH-9</b>  | 10               |
|                                                                                     | 40, 63           | 3             | <b>191409</b>                            | <b>ZBH-15</b> |                  |
| Blanking plug B                                                                     |                  |               |                                          |               |                  |
|                                                                                     |                  |               | Technical data → Internet: blanking plug |               |                  |
|  | 14, 25, 40       | 2             | <b>174308</b>                            | <b>B-M5-B</b> | 10               |
|                                                                                     | 63               | 5             | <b>3568</b>                              | <b>B-1/8</b>  |                  |

1) Packaging unit

## Parallel grippers HGPL-B, heavy-duty with long stroke

Accessories

**FESTO**

| Ordering data – Proximity sensor for T-slot, magneto-resistive                    |                                                  |                                                      |                     |                     |          | Technical data → Internet: smt |  |
|-----------------------------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------|---------------------|---------------------|----------|--------------------------------|--|
|                                                                                   | Type of mounting                                 | Electrical connection<br>Connection outlet direction | Switching<br>output | Cable length<br>[m] | Part No. | Type                           |  |
| N/O contact                                                                       |                                                  |                                                      |                     |                     |          |                                |  |
|  | Inserted in the slot from above,<br>short design | Cable, 3-wire, in-line                               | PNP                 | 2.5                 | 574335   | SMT-8M-A-PS-24V-E-2,5-OE       |  |
|                                                                                   |                                                  | Plug M8x1, 3-pin, in-line                            |                     | 0.3                 | 574334   | SMT-8M-A-PS-24V-E-0,3-M8D      |  |
|                                                                                   |                                                  | Plug M12x1, 3-pin, in-line                           |                     | 0.3                 | 574337   | SMT-8M-A-PS-24V-E-0,3-M12      |  |
|                                                                                   |                                                  | Cable, 3-wire, in-line                               | NPN                 | 2.5                 | 574338   | SMT-8M-A-NS-24V-E-2,5-OE       |  |
|                                                                                   |                                                  | Plug M8x1, 3-pin, in-line                            |                     | 0.3                 | 574339   | SMT-8M-A-NS-24V-E-0,3-M8D      |  |
|                                                                                   |                                                  |                                                      |                     |                     |          |                                |  |
| N/C contact                                                                       |                                                  |                                                      |                     |                     |          |                                |  |
|  | Inserted in the slot from above,<br>short design | Cable, 3-wire, in-line                               | PNP                 | 7.5                 | 574340   | SMT-8M-A-PO-24V-E-7,5-OE       |  |

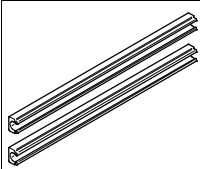
| Ordering data – Proximity sensors for T-slot, magnetic reed                         |                                      |                                                      |                     |                     | Technical data ➔ Internet: sme |                                |
|-------------------------------------------------------------------------------------|--------------------------------------|------------------------------------------------------|---------------------|---------------------|--------------------------------|--------------------------------|
|                                                                                     | Type of mounting                     | Electrical connection<br>Connection outlet direction | Switching<br>output | Cable length<br>[m] | Part No.                       | Type                           |
| N/O contact                                                                         |                                      |                                                      |                     |                     |                                |                                |
|   | Inserted in the slot from<br>above   | Cable, 3-wire, in-line                               | Contacting          | 2.5                 | <b>543862</b>                  | <b>SME-8M-DS-24V-K-2,5-OE</b>  |
|                                                                                     |                                      |                                                      |                     | 5.0                 | <b>543863</b>                  | <b>SME-8M-DS-24V-K-5,0-OE</b>  |
|                                                                                     |                                      | Cable, 2-wire, in-line                               |                     | 2.5                 | <b>543872</b>                  | <b>SME-8M-ZS-24V-K-2,5-OE</b>  |
|                                                                                     |                                      | Plug M8x1, 3-pin, in-line                            |                     | 0.3                 | <b>543861</b>                  | <b>SME-8M-DS-24V-K-0,3-M8D</b> |
|  | Inserted into the slot<br>lengthwise | Cable, 3-wire, in-line                               |                     | 2.5                 | <b>150855</b>                  | <b>SME-8-K-LED-24</b>          |
|                                                                                     |                                      | Plug M8x1, 3-pin, in-line                            |                     | 0.3                 | <b>150857</b>                  | <b>SME-8-S-LED-24</b>          |
| N/C contact                                                                         |                                      |                                                      |                     |                     |                                |                                |
|  | Inserted into the slot<br>lengthwise | Cable, 3-wire, in-line                               | Contacting          | 7.5                 | <b>160251</b>                  | <b>SME-8-O-K-LED-24</b>        |

| Ordering data – Proximity sensor for T-slot, magneto-resistive                      |                                      |                                                       |                     |                     |               | Technical data → Internet: smt  |
|-------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------------------------|---------------------|---------------------|---------------|---------------------------------|
|                                                                                     | Type of mounting                     | Electrical connection,<br>Connection outlet direction | Switching<br>output | Cable length<br>[m] | Part No.      | Type                            |
| N/O contact                                                                         |                                      |                                                       |                     |                     |               |                                 |
|  | Inserted into the slot<br>lengthwise | Cable, 3-wire, right angle                            | PNP                 | 2.5                 | <b>547859</b> | <b>SMT-8G-PS-24V-E-2,5Q-OE</b>  |
|                                                                                     |                                      | Plug M8x1, 3-pin, right angle                         |                     | 0.3                 | <b>547860</b> | <b>SMT-8G-PS-24V-E-0,3Q-M8D</b> |

# Parallel grippers HGPL-B, heavy-duty with long stroke

Accessories

**FESTO**

| Ordering data                                                                     |                                                                                                                         |            |                |                        |                  |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|------------|----------------|------------------------|------------------|
|                                                                                   | Description                                                                                                             | Weight [g] | Part No.       | Type                   | PU <sup>1)</sup> |
| Sensor rail for using the proximity sensor SME/SMT-10                             |                                                                                                                         |            |                |                        |                  |
|  | <ul style="list-style-type: none"> <li>For a gripper stroke of max. 60 mm</li> <li>To be glued into the slot</li> </ul> | 6          | <b>3528767</b> | <b>DASP-B6-60-C-SR</b> | 2                |
|                                                                                   | <ul style="list-style-type: none"> <li>For a gripper stroke of max. 80 mm</li> <li>To be glued into the slot</li> </ul> | 8          | <b>3528768</b> | <b>DASP-B6-80-C-SR</b> |                  |

1) Packaging unit

| Ordering data – Proximity sensors for C-slot, magneto-resistive                   |                                 |                                                    |                  |                  | Technical data → Internet: smt |                                   |
|-----------------------------------------------------------------------------------|---------------------------------|----------------------------------------------------|------------------|------------------|--------------------------------|-----------------------------------|
|                                                                                   | Type of mounting                | Electrical connection, Connection outlet direction | Switching output | Cable length [m] | Part No.                       | Type                              |
| N/O contact                                                                       |                                 |                                                    |                  |                  |                                |                                   |
|  | Inserted in the slot from above | Cable, 3-wire, in-line                             | PNP              | 2.5              | <b>551373</b>                  | <b>SMT-10M-PS-24V-E-2,5-L-OE</b>  |
|                                                                                   |                                 | Plug M8x1, 3-pin, in-line                          |                  | 0.3              | <b>551375</b>                  | <b>SMT-10M-PS-24V-E-0,3-L-M8D</b> |
|                                                                                   |                                 | Cable, 3-wire, right angle                         |                  | 2.5              | <b>551374</b>                  | <b>SMT-10M-PS-24V-E-2,5-Q-OE</b>  |
|                                                                                   |                                 | Plug M8x1, 3-pin, right angle                      |                  | 0.3              | <b>551376</b>                  | <b>SMT-10M-PS-24V-E-0,3-Q-M8D</b> |

| Ordering data – Proximity sensor for C-slot, magnetic reed                          |                                   |                                                    |                  |                  | Technical data → Internet: sme |                                   |
|-------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------|------------------|------------------|--------------------------------|-----------------------------------|
|                                                                                     | Type of mounting                  | Electrical connection, Connection outlet direction | Switching output | Cable length [m] | Part No.                       | Type                              |
| N/O contact                                                                         |                                   |                                                    |                  |                  |                                |                                   |
|  | Inserted in the slot from above   | Cable, 3-wire, in-line                             | Contacting       | 2.5              | <b>551365</b>                  | <b>SME-10M-DS-24V-E-2,5-L-OE</b>  |
|                                                                                     |                                   | Plug M8x1, 3-pin, in-line                          |                  | 0.3              | <b>551367</b>                  | <b>SME-10M-DS-24V-E-0,3-L-M8D</b> |
|                                                                                     |                                   | Cable, 3-wire, right angle                         |                  | 2.5              | <b>551366</b>                  | <b>SME-10M-DS-24V-E-2,5-Q-OE</b>  |
|                                                                                     |                                   | Plug M8x1, 3-pin, right angle                      |                  | 0.3              | <b>551368</b>                  | <b>SME-10M-DS-24V-E-0,3-Q-M8D</b> |
|  | Inserted into the slot lengthwise | Cable, 3-wire, in-line                             |                  | 2.5              | <b>173210</b>                  | <b>SME-10-KL-LED-24</b>           |
|                                                                                     |                                   | Plug M8x1, 3-pin, in-line                          |                  | 0.3              | <b>173212</b>                  | <b>SME-10-SL-LED-24</b>           |

| Ordering data – Proximity sensors for C-slot, magneto-resistive                     |                                   |                                                    |                  |                  | Technical data → Internet: smt |                                  |
|-------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------|------------------|------------------|--------------------------------|----------------------------------|
|                                                                                     | Type of mounting                  | Electrical connection, Connection outlet direction | Switching output | Cable length [m] | Part No.                       | Type                             |
| N/O contact                                                                         |                                   |                                                    |                  |                  |                                |                                  |
|  | Inserted into the slot lengthwise | Cable, 3-wire, right angle                         | PNP              | 2.5              | <b>547862</b>                  | <b>SMT-10G-PS-24V-E-2,5Q-OE</b>  |
|                                                                                     |                                   | Plug M8x1, 3-pin, right angle                      |                  | 0.3              | <b>547863</b>                  | <b>SMT-10G-PS-24V-E-0,3Q-M8D</b> |

| Ordering data – Connecting cables                                                   |                               |                              |                  | Technical data → 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              | <b>541333</b>                   | <b>NEBU-M8G3-K-2.5-LE3</b>  |
|                                                                                     |                               |                              | 5                | <b>541334</b>                   | <b>NEBU-M8G3-K-5-LE3</b>    |
|                                                                                     | Straight socket, M12x1, 5-pin | Cable, open end, 3-wire      | 2.5              | <b>541363</b>                   | <b>NEBU-M12G5-K-2.5-LE3</b> |
|                                                                                     |                               |                              | 5                | <b>541364</b>                   | <b>NEBU-M12G5-K-5-LE3</b>   |
|  | Angled socket, M8x1, 3-pin    | Cable, open end, 3-wire      | 2.5              | <b>541338</b>                   | <b>NEBU-M8W3-K-2.5-LE3</b>  |
|                                                                                     |                               |                              | 5                | <b>541341</b>                   | <b>NEBU-M8W3-K-5-LE3</b>    |
|                                                                                     | Angled socket, M12x1, 5-pin   | Cable, open end, 3-wire      | 2.5              | <b>541367</b>                   | <b>NEBU-M12W5-K-2.5-LE3</b> |
|                                                                                     |                               |                              | 5                | <b>541370</b>                   | <b>NEBU-M12W5-K-5-LE3</b>   |

## Parallel grippers HGPL-B, heavy-duty with long stroke

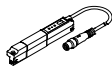
Accessories

**FESTO**

### Position transmitter

The position transmitter continuously senses the position of the piston.

It has an analogue output with an output signal in proportion to the piston position.

| Ordering data – Position transmitter for T-slot                                   |                          |                 |          |                                 |                           | Technical data → Internet: position transmitter |          |                              |
|-----------------------------------------------------------------------------------|--------------------------|-----------------|----------|---------------------------------|---------------------------|-------------------------------------------------|----------|------------------------------|
|                                                                                   | Position measuring range | Analogue output |          | Type of mounting                | Electrical connection     | Cable length [m]                                | Part No. | Type                         |
|                                                                                   |                          | [V]             | [mA]     |                                 |                           |                                                 |          |                              |
|  | 0 ... 50                 | –               | 0 ... 20 | Inserted in the slot from above | Plug M8x1, 4-pin, in-line | 0.3                                             | 1531265  | SDAT-MHS-M50-1L-SA-E-0.3-M8  |
|                                                                                   | 0 ... 80                 |                 |          |                                 |                           |                                                 | 1531266  | SDAT-MHS-M80-1L-SA-E-0.3-M8  |
|                                                                                   | 0 ... 100                |                 |          |                                 |                           |                                                 | 1531267  | SDAT-MHS-M100-1L-SA-E-0.3-M8 |
|                                                                                   | 0 ... 125                |                 |          |                                 |                           |                                                 | 1531268  | SDAT-MHS-M125-1L-SA-E-0.3-M8 |
|                                                                                   | 0 ... 160                |                 |          |                                 |                           |                                                 | 1531269  | SDAT-MHS-M160-1L-SA-E-0.3-M8 |

| Ordering data – Connecting cables                                                   |                              |                              |                  |               | Technical data → 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              | <b>541342</b> | <b>NEBU-M8G4-K-2.5-LE4</b>      |  |
|                                                                                     |                              |                              | 5                | <b>541343</b> | <b>NEBU-M8G4-K-5-LE4</b>        |  |
|  | Angled socket, M8x1, 4-pin   | Cable, open end, 4-wire      | 2.5              | <b>541344</b> | <b>NEBU-M8W4-K-2.5-LE4</b>      |  |
|                                                                                     |                              |                              | 5                | <b>541345</b> | <b>NEBU-M8W4-K-5-LE4</b>        |  |