



**Sizes**  
26 ... 125



**Weight**  
0.13 kg ... 6.72 kg



**Gripping moment**  
2 Nm ... 295 Nm



**Angle per jaw**  
30° ... 90°



**Workpiece weight**  
0.3 kg ... 9.12 kg

### Application example



Gripper-swivel combination for handling of small pins. The 180° opening angle of the gripper replaces a stroke unit which is normally necessary.

- 1 2-Finger Radial Gripper PRG
- 2 Rotary Actuator SRU-plus

## Universal Gripper

180°-Radial Gripper with powerful 1-shift slotted link gear and oval piston

### Field of application

for areas of application which, in addition to a large gripping force, require the shortest possible motion sequences through the radial design of the jaw stroke

### Your advantages and benefits

#### Kinematics

The 1-shift slotted link gear assures a constant closing moment from  $-5^\circ$  to  $+7^\circ$ .

#### Optimized cycle time due to innovative dampening

directly integrated drive chain

#### Maximum power density

for higher closing moments, longer and stable gripper fingers

#### Many options assure a higher degree of flexibility

Adjusted to the individual application, the PRG is also available with a mechanic gripping force maintenance device, as a high-temperature version, and with three opening angle versions  $30^\circ$  /  $60^\circ$  /  $90^\circ$ .

#### Air supply via hose-free direct connection or screw connections

for the flexible supply of compressed air in all automation systems



## General note to the series

### Principle of function

Crank drive

### Housing material

Aluminum alloy, hard-anodized

### Base jaw material

Steel

### Actuation

pneumatic, with filtered compressed air (10 microns): dry, lubricated or non-lubricated

Pressure medium: Required quality class of compressed air according to

DIN ISO 8573-1: 6 4 4

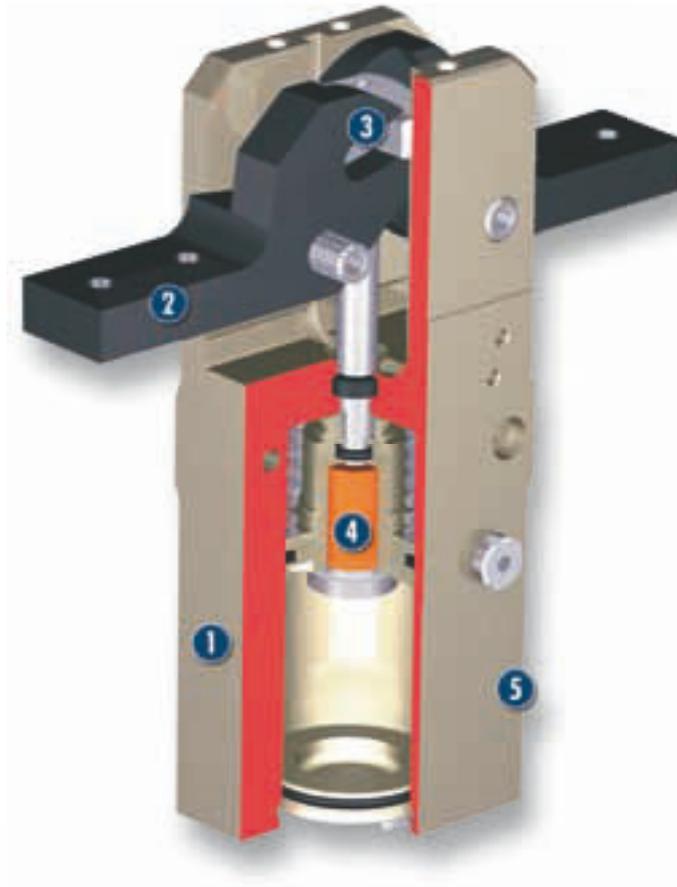
### Warranty

24 months (details, general terms and conditions and operation manuals can be downloaded under [www.schunk.com](http://www.schunk.com))

### Scope of delivery

Centering sleeves, O-rings for direct connection, assembly and operating manual with manufacturer's declaration

## Sectional diagram



- 1 Housing**  
weight-optimized through application of hard-anodized, high-strength aluminum alloy
- 3 Kinematics**  
Slotted link gear for very high gripping forces when the workpiece is contacted
- 5 Monitoring**  
integrated end position monitoring with magnetic switches
- 2 Base jaw**  
for the connection of workpiece-specific gripper fingers
- 4 Damping**  
decoupled, for shorter cycle times

### Functional description

The patented 1-shift slotted gear shift transfers this motion into a powerful closing moment. The closing moment is additionally reinforced by the curved shape of the guidance.

The crank system assures a force-extended jaw stroke behavior, but also a constant closing moment via a large range of closing angle.

### Options and special information

180° radial grippers are advantageous since further stroke motions are no more necessary. Since every jaw swivels away by 90°, the gripper is outside of the working area, and a stroke motion back of the whole gripper is no more necessary.

**Accessories**

Accessories from SCHUNK – the suitable supplement for maximum functionality, reliability and performance of all automation modules.

**Centering sleeves**



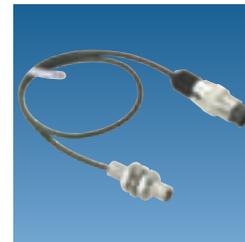
**Fittings**



**Magnetic Switches**



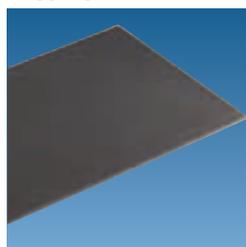
**Inductive proximity switches**



**Plastic inserts**



**Gripper pads**



**Pressure maintenance valve**



**Sensor cables**



**Sensor Distributor**



① For the exact size of the required accessories, availability of this size and the designation and ID, please refer to the additional views at the end of the size in question. You will find more detailed information on our accessory range in the “Accessories” catalog section.

**General note to the series**

**Gripping moment**

Gripping moment is the arithmetic total of gripping moments for each claw jaw.

**Finger length**

The finger length is measured from the upper edge of the gripper housing in direction to the main axis. If the max. admissible finger length is exceeded, the speed of jaw motions have to be reduced and/or the opening angle has to be diminished, as it is done with heavy fingers. The service life of the gripper can shorten.

**Repeat accuracy**

is defined as the spread of the limit position after 100 consecutive strokes.

**Workpiece weight**

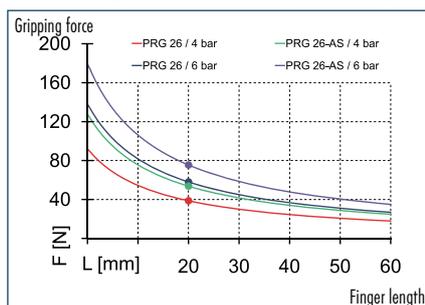
The recommended workpiece weight is calculated for a force-type connection with a coefficient of friction of 0.1 and a safety factor of 2 against slippage of the workpiece on acceleration due to gravity g. Considerably heavier workpiece weights are permitted with form-fit gripping.

**Closing and opening times**

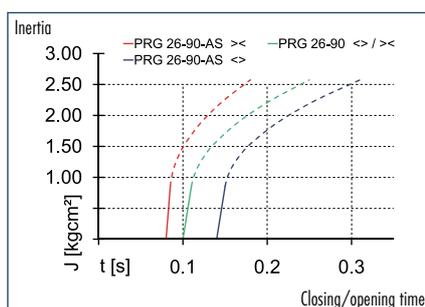
Closing and opening times are purely the times that the base jaws or fingers are in motion. Valve switching times, hose filling times or PLC reaction times are not included in the above times and must be taken into consideration when determining cycle times.



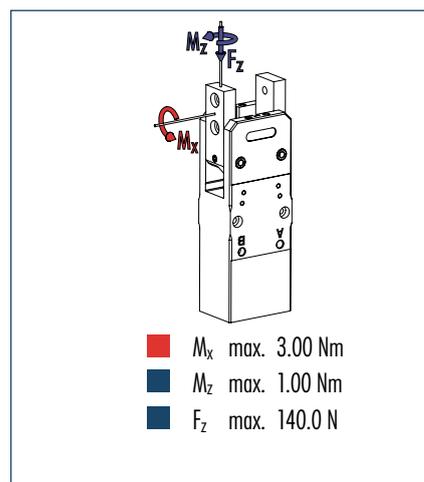
### Gripping force, O.D. gripping



### Maximum admissible inertia J



### Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

### Technical data

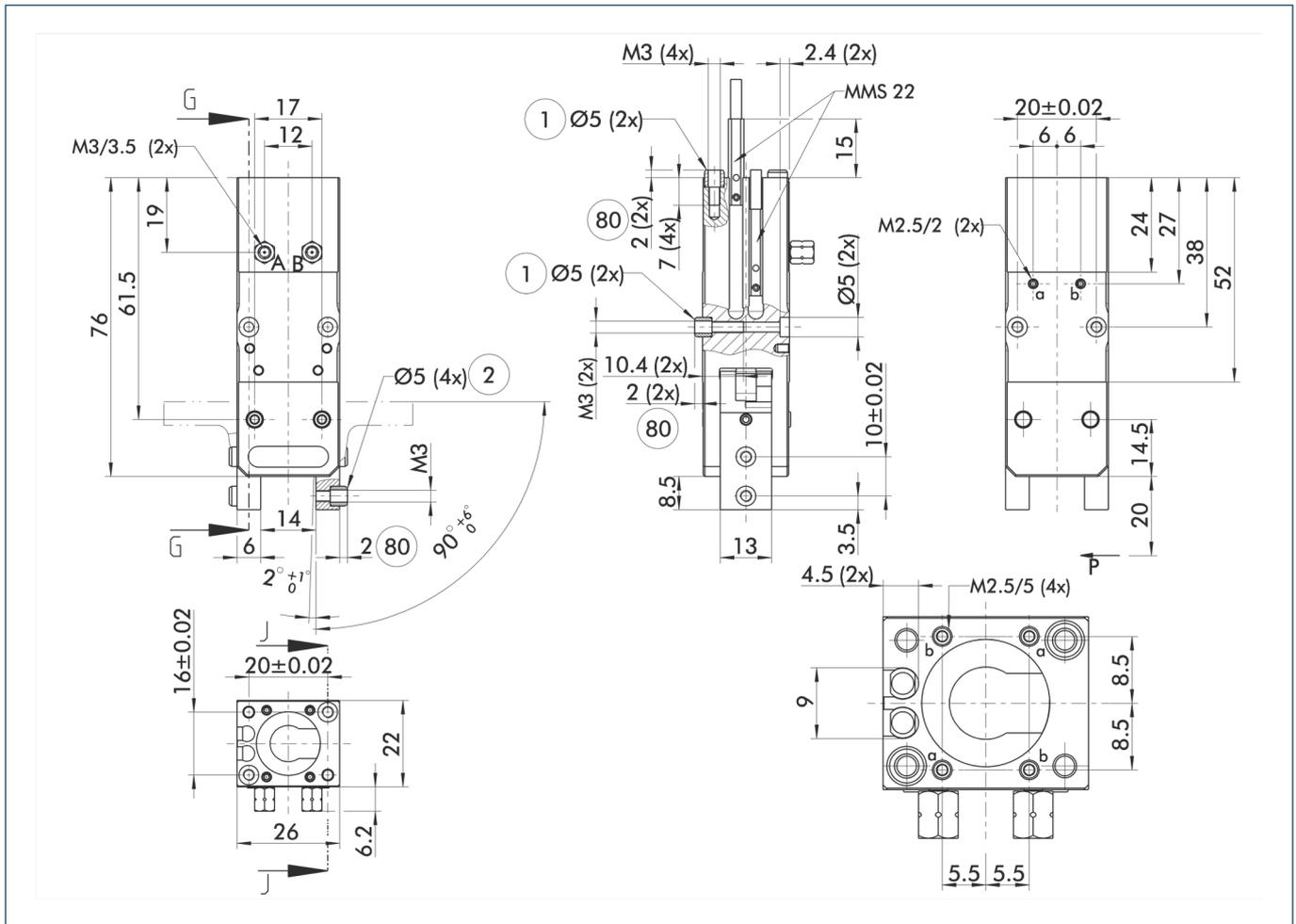
| Description                                 | PRG 26-30 | PRG 26-30-AS | PRG 26-60 | PRG 26-60-AS | PRG 26-90 | PRG 26-90-AS |
|---|-----------|--------------|-----------|--------------|-----------|--------------|
| ID  | 0303651   | 0303661      | 0303691   | 0303701      | 0303671   | 0303681      |
| Opening angle per jaw [°]                   | 30        | 30           | 60        | 60           | 90        | 90           |
| Closed angle per jaw up to [°]              | 4         | 4            | 4         | 4            | 4         | 4            |
| Closing moment [Nm]                         | 2         | 2.6          | 2         | 2.6          | 2         | 2.6          |
| Spring-actuated closing moment [Nm]         |           | 0.6          |           | 0.6          |           | 0.6          |
| Weight [kg]                                 | 0.13      | 0.135        | 0.13      | 0.135        | 0.13      | 0.135        |
| Recommended workpiece weight [kg]           | 0.3       | 0.38         | 0.3       | 0.38         | 0.3       | 0.38         |
| Air consumption per double stroke [cm³]     | 6.5       | 6.5          | 7.5       | 7.5          | 9         | 9            |
| Min./max. operating pressure [bar]          | 2/8       | 4/6.5        | 2/8       | 4/6.5        | 2/8       | 4/6.5        |
| Nominal operating pressure [bar]            | 6         | 6            | 6         | 6            | 6         | 6            |
| Closing time [s]                            | 0.03      | 0.03         | 0.07      | 0.05         | 0.1       | 0.08         |
| Opening time [s]                            | 0.03      | 0.05         | 0.07      | 0.09         | 0.1       | 0.14         |
| Max. permitted finger length [mm]           | 40        | 40           | 40        | 40           | 40        | 40           |
| Max. mass moment of inertia per jaw [kgcm²] | 0.86      | 0.86         | 0.86      | 0.86         | 0.86      | 0.86         |
| IP class                                    | 20        | 20           | 20        | 20           | 20        | 20           |
| Min./max. ambient temperature [°C]          | -10/90    | -10/90       | -10/90    | -10/90       | -10/90    | -10/90       |
| Repeat accuracy [mm]                        | 0.05      | 0.05         | 0.05      | 0.05         | 0.05      | 0.05         |

### OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303651 | 39303661 | 39303691 | 39303701 | 39303671 | 39303681 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.

## Main view

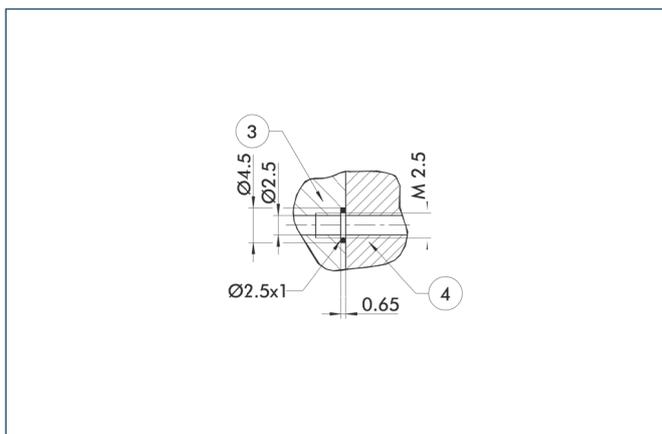


The drawing shows the gripper in the basic version with closed jaws, the dimensions do not include the options described below.

① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see "Accessories" catalog section).

- A, a Main/direct connection, gripper opening
- B, b Main/direct connection, gripper closing
- ① Gripper connection
- ② Finger connection
- ⊘ Depth of the centering sleeve hole in the matching part

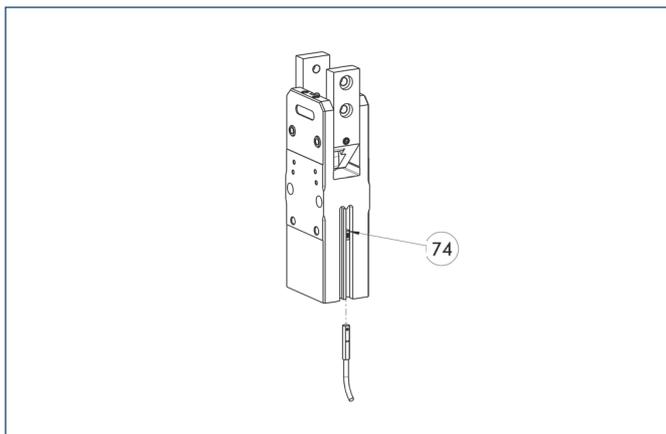
## Hose-free direct connection



- ③ Adapter
- ④ Gripper

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

### Programmable magnetic switch



74 Stop for MMS-P

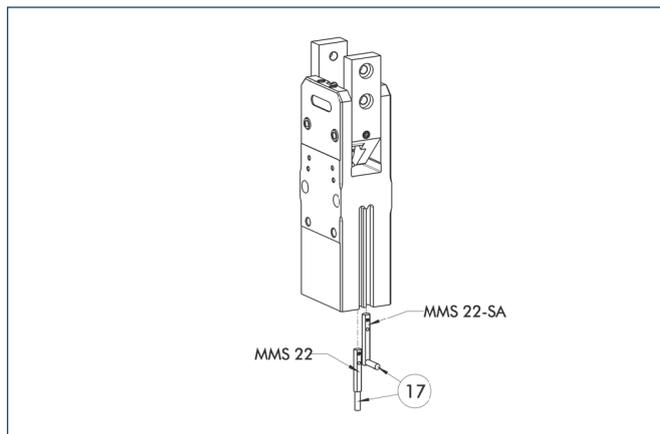
Position monitoring with two programmable positions per sensor. The end position monitoring is mounted in the C-slot.

| Description                         | ID      | Recommended product |
|-------------------------------------|---------|---------------------|
| <b>Programmable magnetic switch</b> |         |                     |
| MMS-P 22-S-M8-PNP                   | 0301370 | •                   |
| MMSK-P 22-S-PNP                     | 0301371 |                     |
| <b>Connection cables</b>            |         |                     |
| KA BG08-L 4P-0500                   | 0307767 |                     |
| KA BG08-L 4P-1000                   | 0307768 |                     |
| KA BW08-L 4P-0500                   | 0307765 |                     |
| KA BW08-L 4P-1000                   | 0307766 |                     |
| <b>Sensor Distributor</b>           |         |                     |
| V2-M8-4P-2XM8-3P                    | 0301380 |                     |

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

① Per gripper one sensor (closer/NO) is required, optionally a cable extension.

### Electronic magnetic switches



17 Cable outlet

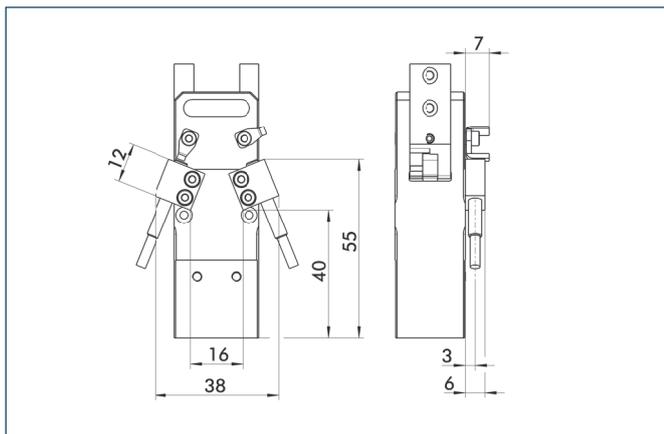
End position monitoring for mounting in the C-slot

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Reed Switches</b>  |         |                     |
| RMS 22-S-M8   | 0377720 | •                   |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

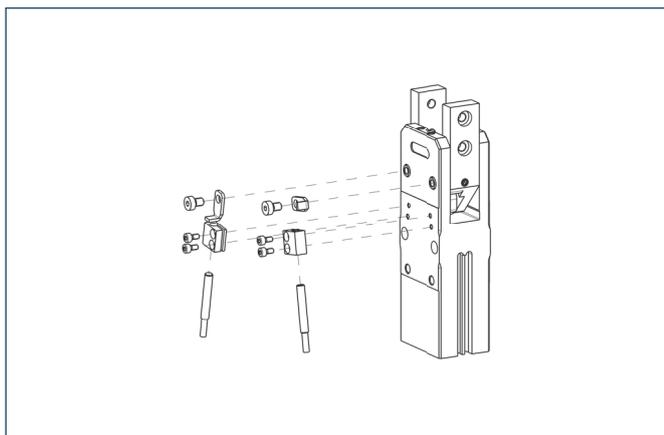
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 26-IN40                    | 0303621 |

### Inductive proximity switches

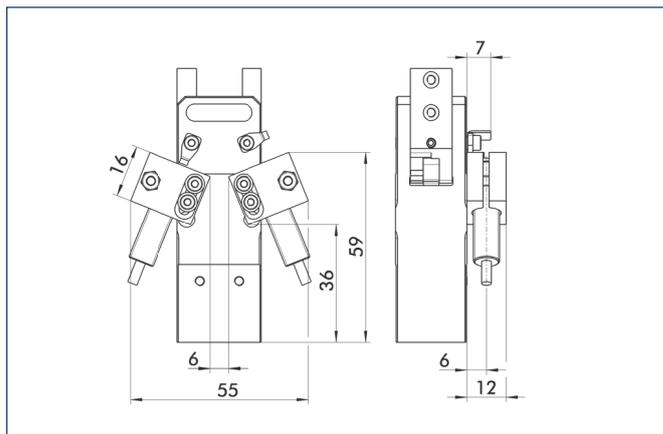


End position monitoring mounted with mounting kit

| Description                                    | ID      | Recommended product |
|--|---------|---------------------|
| Mounting kit for proximity switch              |         |                     |
| AS-PRG 26-IN40                                 | 0303621 |                     |
| Inductive proximity switches                   |         |                     |
| IN 40-S-M8                                     | 0301474 | •                   |
| IN 40-S-M12                                    | 0301574 |                     |
| INK 40-S                                       | 0301555 |                     |
| IN 40-S-M5-PNP                                 | 0301491 |                     |
| IN 40-S-M5-NPN                                 | 0301492 |                     |
| Inductive proximity switch with lateral outlet |         |                     |
| IN 40-S-M12-SA                                 | 0301577 |                     |
| IN 40-S-M8-SA                                  | 0301473 | •                   |
| INK 40-S-SA                                    | 0301565 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

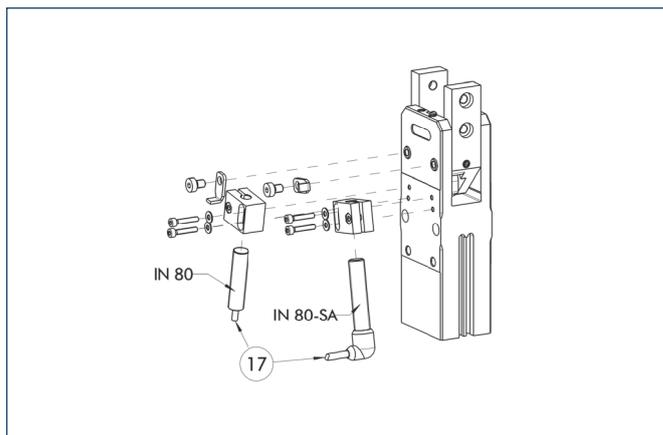
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 26-IN80                    | 0304132 |

### Inductive proximity switches



⑰ Cable outlet

End position monitoring mounted with mounting kit

| Description                                    | ID      | Recommended product |
|--|---------|---------------------|
| Mounting kit for proximity switch              |         |                     |
| AS-PRG 26-IN80                                 | 0304132 |                     |
| Inductive proximity switches                   |         |                     |
| IN 80-S-M8                                     | 0301478 | •                   |
| IN 80-S-M12                                    | 0301578 |                     |
| INK 80-S                                       | 0301550 |                     |
| Inductive proximity switch with lateral outlet |         |                     |
| IN 80-S-M12-SA                                 | 0301587 |                     |
| IN 80-S-M8-SA                                  | 0301483 | •                   |
| INK 80-S-SA                                    | 0301566 |                     |

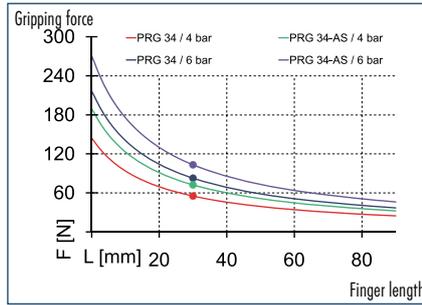
- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



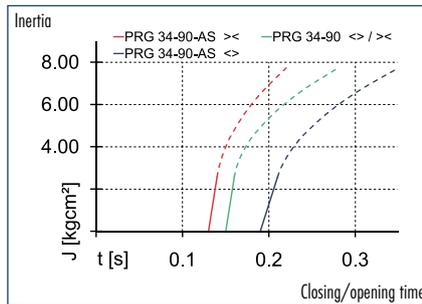
You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.



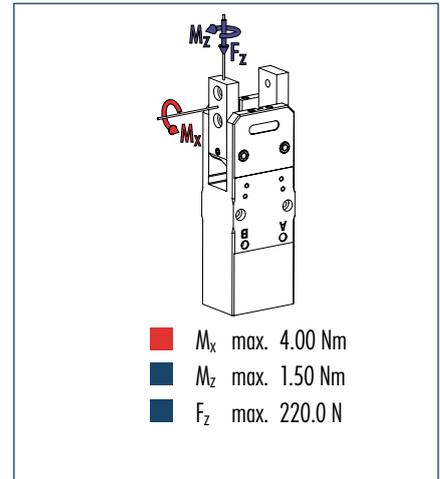
## Gripping force, O.D. gripping



## Maximum admissible inertia J



## Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

## Technical data

| Description                                 | PRG 34-30 | PRG 34-30-AS | PRG 34-60 | PRG 34-60-AS | PRG 34-90 | PRG 34-90-AS |
|---|-----------|--------------|-----------|--------------|-----------|--------------|
| ID  | 0303652   | 0303662      | 0303692   | 0303702      | 0303672   | 0303682      |
| Opening angle per jaw [°]                   | 30        | 30           | 60        | 60           | 90        | 90           |
| Closed angle per jaw up to [°]              | 4         | 4            | 4         | 4            | 4         | 4            |
| Closing moment [Nm]                         | 4         | 5            | 4         | 5            | 4         | 5            |
| Spring-actuated closing moment [Nm]         |           | 1            |           | 1            |           | 1            |
| Weight [kg]                                 | 0.24      | 0.25         | 0.24      | 0.25         | 0.24      | 0.25         |
| Recommended workpiece weight [kg]           | 0.42      | 0.53         | 0.42      | 0.53         | 0.42      | 0.53         |
| Air consumption per double stroke [cm³]     | 12        | 12           | 14.5      | 14.5         | 17.5      | 17.5         |
| Min./max. operating pressure [bar]          | 2/8       | 4/6.5        | 2/8       | 4/6.5        | 2/8       | 4/6.5        |
| Nominal operating pressure [bar]            | 6         | 6            | 6         | 6            | 6         | 6            |
| Closing time [s]                            | 0.05      | 0.04         | 0.1       | 0.09         | 0.15      | 0.13         |
| Opening time [s]                            | 0.05      | 0.06         | 0.1       | 0.13         | 0.15      | 0.19         |
| Max. permitted finger length [mm]           | 60        | 60           | 60        | 60           | 60        | 60           |
| Max. mass moment of inertia per jaw [kgcm²] | 2.58      | 2.58         | 2.58      | 2.58         | 2.58      | 2.58         |
| IP class                                    | 20        | 20           | 20        | 20           | 20        | 20           |
| Min./max. ambient temperature [°C]          | -10/90    | -10/90       | -10/90    | -10/90       | -10/90    | -10/90       |
| Repeat accuracy [mm]                        | 0.05      | 0.05         | 0.05      | 0.05         | 0.05      | 0.05         |

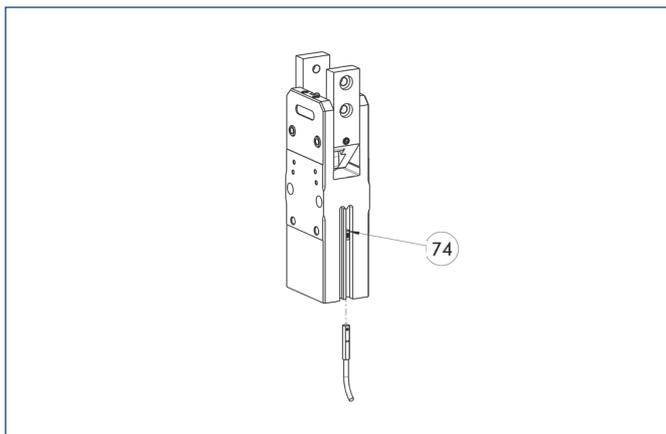
## OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303652 | 39303662 | 39303692 | 39303702 | 39303672 | 39303682 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.



### Programmable magnetic switch



74 Stop for MMS-P

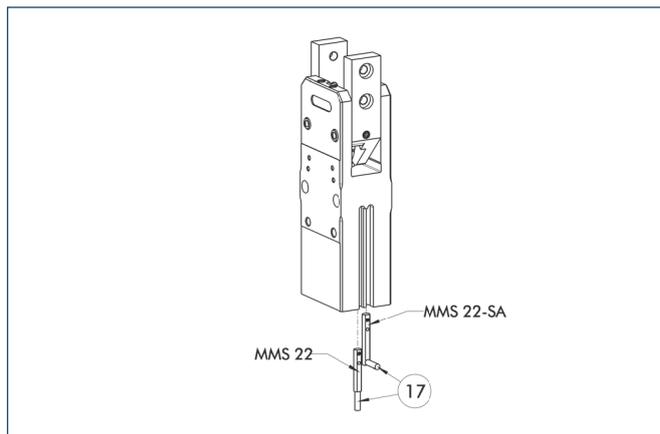
Position monitoring with two programmable positions per sensor. The end position monitoring is mounted in the C-slot.

| Description                         | ID      | Recommended product |
|-------------------------------------|---------|---------------------|
| <b>Programmable magnetic switch</b> |         |                     |
| MMS-P 22-S-M8-PNP                   | 0301370 | •                   |
| MMSK-P 22-S-PNP                     | 0301371 |                     |
| <b>Connection cables</b>            |         |                     |
| KA BG08-L 4P-0500                   | 0307767 |                     |
| KA BG08-L 4P-1000                   | 0307768 |                     |
| KA BW08-L 4P-0500                   | 0307765 |                     |
| KA BW08-L 4P-1000                   | 0307766 |                     |
| <b>Sensor Distributor</b>           |         |                     |
| V2-M8-4P-2XM8-3P                    | 0301380 |                     |

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

① Per gripper one sensor (closer/NO) is required, optionally a cable extension.

### Electronic magnetic switches



17 Cable outlet

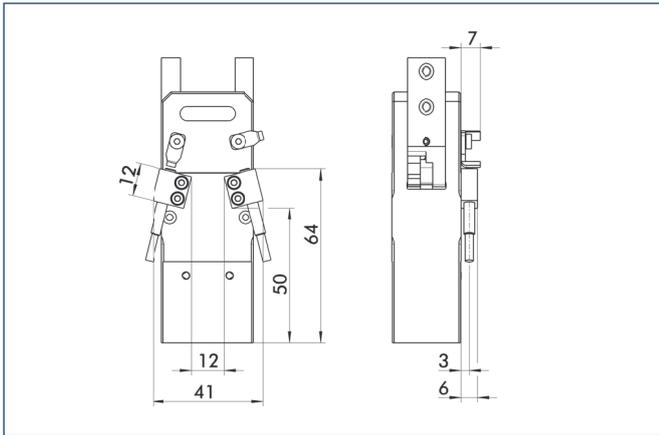
End position monitoring for mounting in the C-slot

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Reed Switches</b>  |         |                     |
| RMS 22-S-M8   | 0377720 | •                   |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

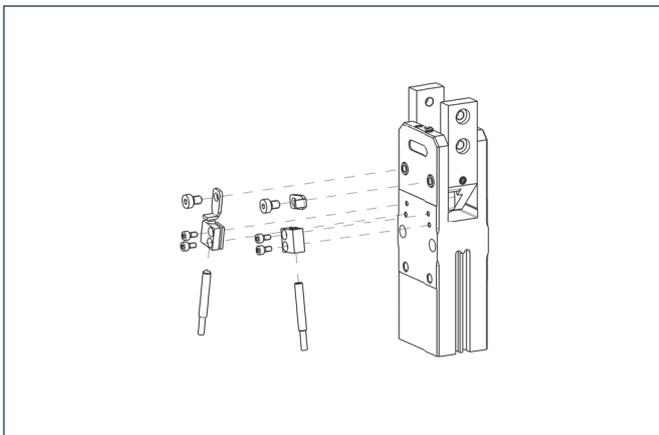
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 34-IN40                    | 0303622 |

### Inductive proximity switches

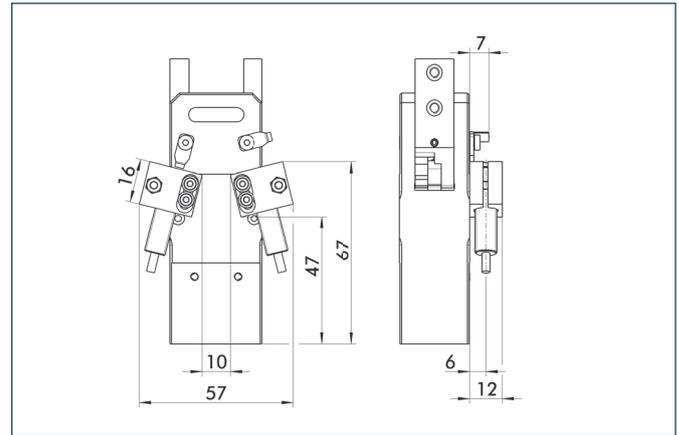


End position monitoring mounted with mounting kit

| Description                       | ID      | Recommended product |
|-----------------------------------|---------|---------------------|
| Mounting kit for proximity switch |         |                     |
| AS-PRG 34-IN40                    | 0303622 |                     |
| Inductive proximity switches      |         |                     |
| IN 40-S-M8                        | 0301474 | •                   |
| IN 40-S-M12                       | 0301574 |                     |
| INK 40-S                          | 0301555 |                     |
| IN 40-S-M5-PNP                    | 0301491 |                     |
| IN 40-S-M5-NPN                    | 0301492 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

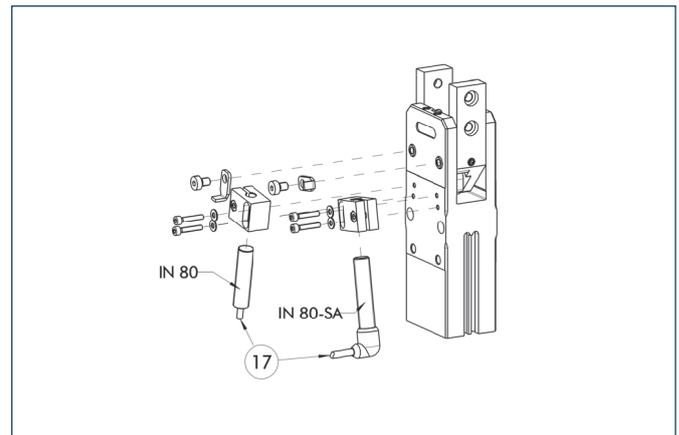
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 34-IN80                    | 0304133 |

### Inductive proximity switches



⑰ Cable outlet

End position monitoring mounted with mounting kit

| Description                                    | ID      | Recommended product |
|--|---------|---------------------|
| Mounting kit for proximity switch              |         |                     |
| AS-PRG 34-IN80                                 | 0304133 |                     |
| Inductive proximity switches                   |         |                     |
| IN 80-S-M8                                     | 0301478 | •                   |
| IN 80-S-M12                                    | 0301578 |                     |
| INK 80-S                                       | 0301550 |                     |
| Inductive proximity switch with lateral outlet |         |                     |
| IN 80-S-M12-SA                                 | 0301587 |                     |
| IN 80-S-M8-SA                                  | 0301483 | •                   |
| INK 80-S-SA                                    | 0301566 |                     |

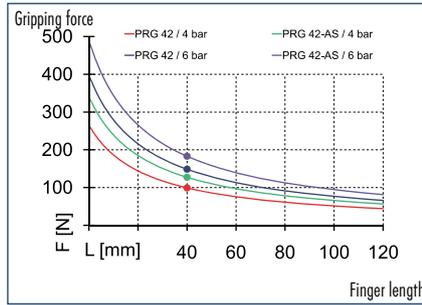
- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



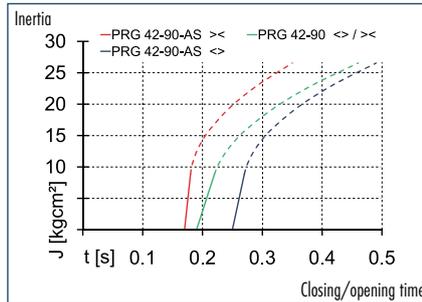
You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.



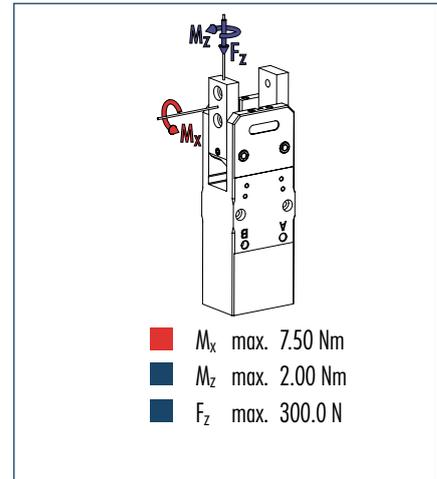
## Gripping force, O.D. gripping



## Maximum admissible inertia J



## Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

## Technical data

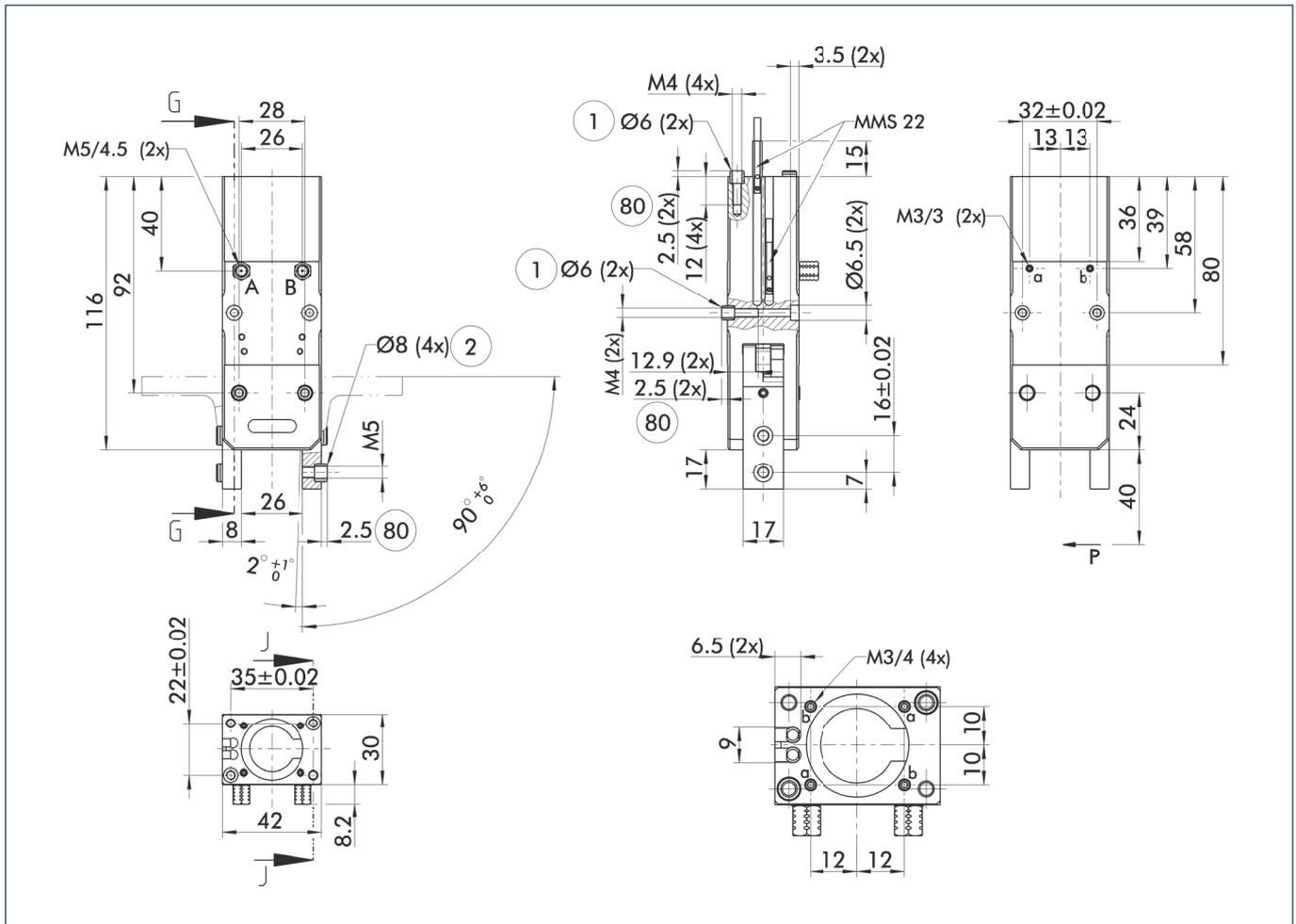
| Description                                 | PRG 42-30 | PRG 42-30-AS | PRG 42-60 | PRG 42-60-AS | PRG 42-90 | PRG 42-90-AS |
|---|-----------|--------------|-----------|--------------|-----------|--------------|
| ID  | 0303653   | 0303663      | 0303693   | 0303703      | 0303673   | 0303683      |
| Opening angle per jaw [°]                   | 30        | 30           | 60        | 60           | 90        | 90           |
| Closed angle per jaw up to [°]              | 4         | 4            | 4         | 4            | 4         | 4            |
| Closing moment [Nm]                         | 9.5       | 11.7         | 9.5       | 11.7         | 9.5       | 11.7         |
| Spring-actuated closing moment [Nm]         |           | 2.2          |           | 2.2          |           | 2.2          |
| Weight [kg]                                 | 0.41      | 0.43         | 0.41      | 0.43         | 0.41      | 0.43         |
| Recommended workpiece weight [kg]           | 0.76      | 0.93         | 0.76      | 0.93         | 0.76      | 0.93         |
| Air consumption per double stroke [cm³]     | 29        | 29           | 34        | 34           | 39        | 39           |
| Min./max. operating pressure [bar]          | 2/8       | 4/6.5        | 2/8       | 4/6.5        | 2/8       | 4/6.5        |
| Nominal operating pressure [bar]            | 6         | 6            | 6         | 6            | 6         | 6            |
| Closing time [s]                            | 0.06      | 0.06         | 0.13      | 0.11         | 0.19      | 0.17         |
| Opening time [s]                            | 0.06      | 0.08         | 0.13      | 0.17         | 0.19      | 0.25         |
| Max. permitted finger length [mm]           | 80        | 80           | 80        | 80           | 80        | 80           |
| Max. mass moment of inertia per jaw [kgcm²] | 8.85      | 8.85         | 8.85      | 8.85         | 8.85      | 8.85         |
| IP class                                    | 20        | 20           | 20        | 20           | 20        | 20           |
| Min./max. ambient temperature [°C]          | -10/90    | -10/90       | -10/90    | -10/90       | -10/90    | -10/90       |
| Repeat accuracy [mm]                        | 0.05      | 0.05         | 0.05      | 0.05         | 0.05      | 0.05         |

## OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303653 | 39303663 | 39303693 | 39303703 | 39303673 | 39303683 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.

### Main view



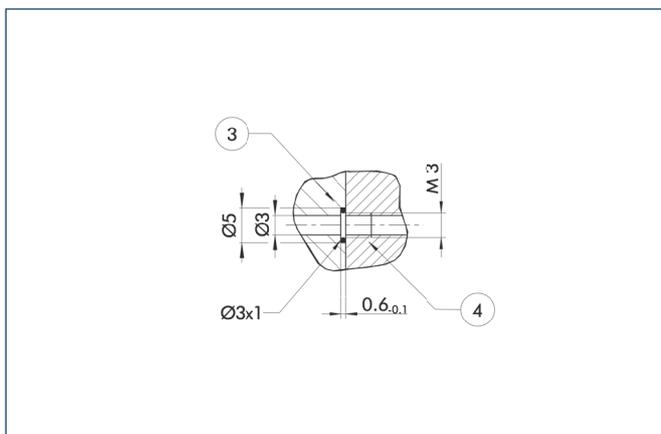
The drawing shows the gripper in the basic version with closed jaws, the dimensions do not include the options described below.

① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see "Accessories" catalog section).

A, a Main/direct connection, gripper opening  
 B, b Main/direct connection, gripper closing  
 ① Gripper connection  
 ② Finger connection

⊕ Depth of the centering sleeve hole in the matching part

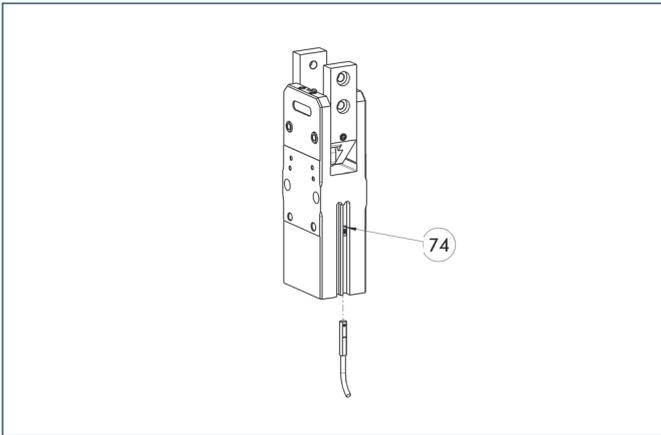
### Hose-free direct connection



③ Adapter  
 ④ Gripper

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

### Programmable magnetic switch



74 Stop for MMS-P

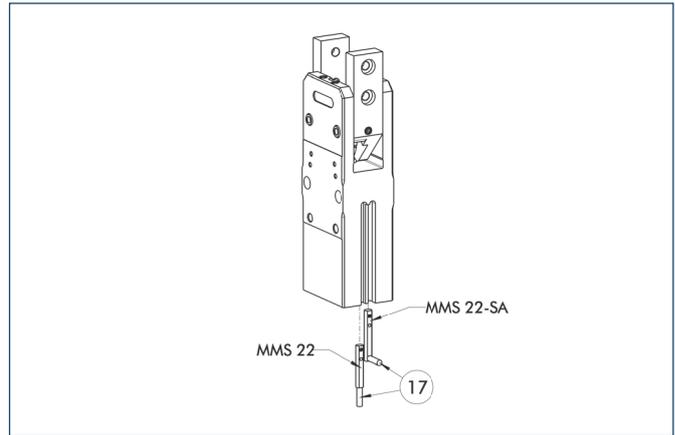
Position monitoring with two programmable positions per sensor. The end position monitoring is mounted in the C-slot.

| Description                         | ID      | Recommended product |
|-------------------------------------|---------|---------------------|
| <b>Programmable magnetic switch</b> |         |                     |
| MMS-P 22-S-M8-PNP                   | 0301370 | •                   |
| MMSK-P 22-S-PNP                     | 0301371 |                     |
| <b>Connection cables</b>            |         |                     |
| KA BG08-L 4P-0500                   | 0307767 |                     |
| KA BG08-L 4P-1000                   | 0307768 |                     |
| KA BW08-L 4P-0500                   | 0307765 |                     |
| KA BW08-L 4P-1000                   | 0307766 |                     |
| <b>Sensor Distributor</b>           |         |                     |
| V2-M8-4P-2XM8-3P                    | 0301380 |                     |

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

① Per gripper one sensor (closer/NO) is required, optionally a cable extension.

### Electronic magnetic switches



17 Cable outlet

End position monitoring for mounting in the C-slot

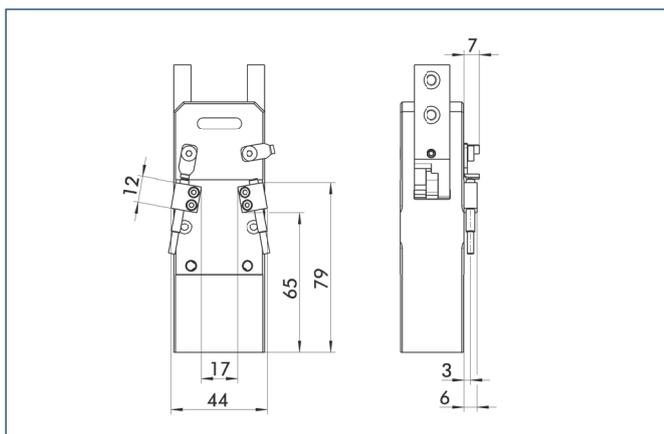
| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Reed Switches</b>  |         |                     |
| RMS 22-S-M8   | 0377720 | •                   |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.

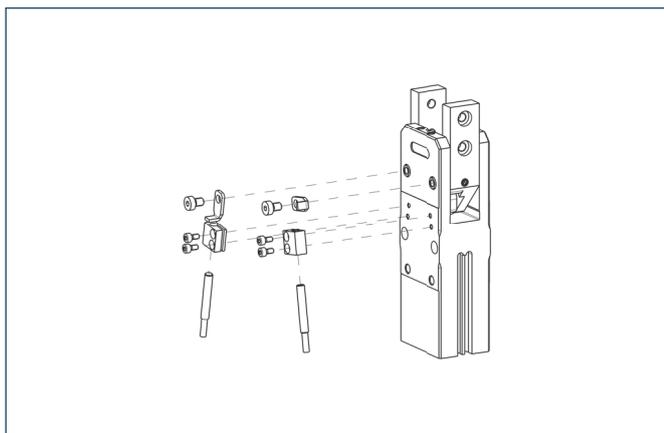
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 42-IN40                    | 0303623 |

### Inductive proximity switches

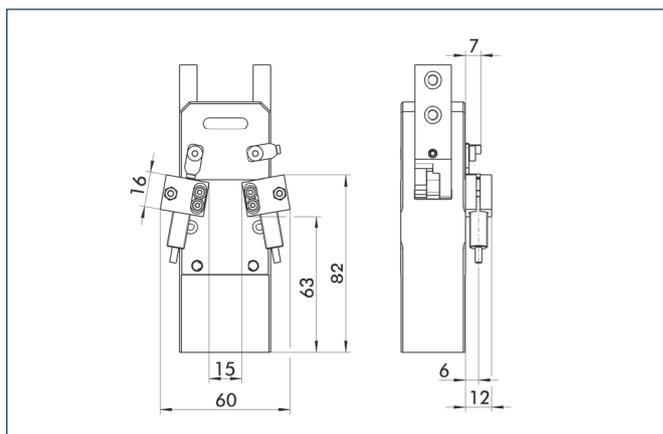


End position monitoring mounted with mounting kit

| Description                       | ID      | Recommended product |
|-----------------------------------|---------|---------------------|
| Mounting kit for proximity switch |         |                     |
| AS-PRG 42-IN40                    | 0303623 |                     |
| Inductive proximity switches      |         |                     |
| IN 40-S-M8                        | 0301474 | •                   |
| IN 40-S-M12                       | 0301574 |                     |
| INK 40-S                          | 0301555 |                     |
| IN 40-S-M5-PNP                    | 0301491 |                     |
| IN 40-S-M5-NPN                    | 0301492 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

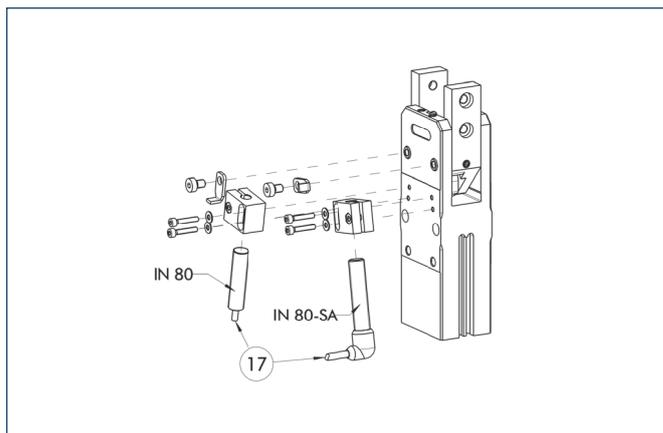
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 42-IN80                    | 0304133 |

### Inductive proximity switches



⑰ Cable outlet

End position monitoring mounted with mounting kit

| Description                                    | ID      | Recommended product |
|--|---------|---------------------|
| Mounting kit for proximity switch              |         |                     |
| AS-PRG 42-IN80                                 | 0304133 |                     |
| Inductive proximity switches                   |         |                     |
| IN 80-S-M8                                     | 0301478 | •                   |
| IN 80-S-M12                                    | 0301578 |                     |
| INK 80-S                                       | 0301550 |                     |
| Inductive proximity switch with lateral outlet |         |                     |
| IN 80-S-M12-SA                                 | 0301587 |                     |
| IN 80-S-M8-SA                                  | 0301483 | •                   |
| INK 80-S-SA                                    | 0301566 |                     |

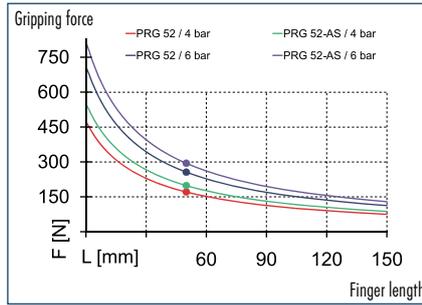
- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



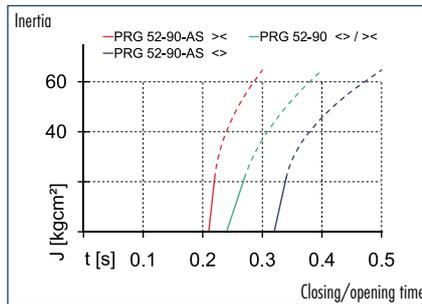
You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.



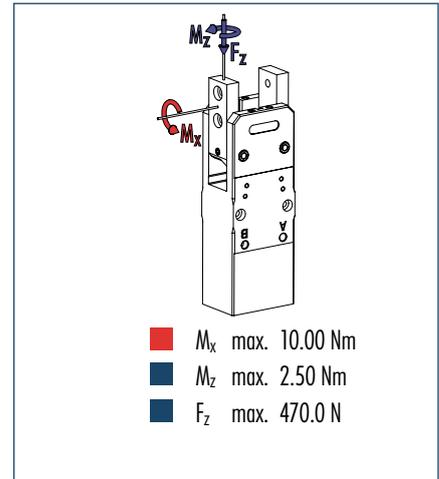
## Gripping force, O.D. gripping



## Maximum admissible inertia J



## Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

## Technical data

| Description                                 | PRG 52-30 | PRG 52-30-AS | PRG 52-60 | PRG 52-60-AS | PRG 52-90 | PRG 52-90-AS |
|---|-----------|--------------|-----------|--------------|-----------|--------------|
| ID  | 0303654   | 0303664      | 0303694   | 0303704      | 0303674   | 0303684      |
| Opening angle per jaw [°]                   | 30        | 30           | 60        | 60           | 90        | 90           |
| Closed angle per jaw up to [°]              | 4         | 4            | 4         | 4            | 4         | 4            |
| Closing moment [Nm]                         | 20        | 23           | 20        | 23           | 20        | 23           |
| Spring-actuated closing moment [Nm]         |           | 3            |           | 3            |           | 3            |
| Weight [kg]                                 | 0.77      | 0.8          | 0.76      | 0.8          | 0.75      | 0.79         |
| Recommended workpiece weight [kg]           | 1.3       | 1.5          | 1.3       | 1.5          | 1.3       | 1.5          |
| Air consumption per double stroke [cm³]     | 52        | 52           | 61        | 61           | 72        | 72           |
| Min./max. operating pressure [bar]          | 2/8       | 4/6.5        | 2/8       | 4/6.5        | 2/8       | 4/6.5        |
| Nominal operating pressure [bar]            | 6         | 6            | 6         | 6            | 6         | 6            |
| Closing time [s]                            | 0.08      | 0.07         | 0.16      | 0.14         | 0.24      | 0.21         |
| Opening time [s]                            | 0.08      | 0.11         | 0.16      | 0.21         | 0.24      | 0.32         |
| Max. permitted finger length [mm]           | 100       | 100          | 100       | 100          | 100       | 100          |
| Max. mass moment of inertia per jaw [kgcm²] | 21.55     | 21.55        | 21.55     | 21.55        | 21.55     | 21.55        |
| IP class                                    | 20        | 20           | 20        | 20           | 20        | 20           |
| Min./max. ambient temperature [°C]          | -10/90    | -10/90       | -10/90    | -10/90       | -10/90    | -10/90       |
| Repeat accuracy [mm]                        | 0.05      | 0.05         | 0.05      | 0.05         | 0.05      | 0.05         |

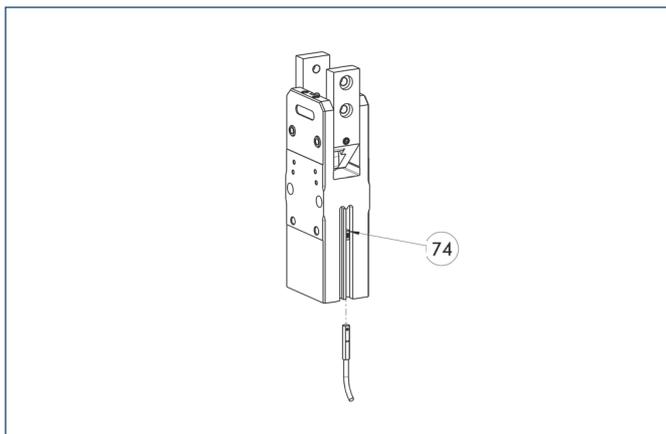
## OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303654 | 39303664 | 39303694 | 39303704 | 39303674 | 39303684 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.



### Programmable magnetic switch



74 Stop for MMS-P

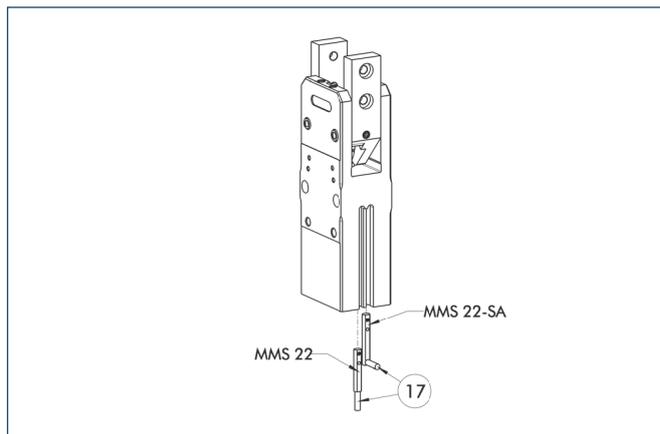
Position monitoring with two programmable positions per sensor. The end position monitoring is mounted in the C-slot.

| Description                         | ID      | Recommended product |
|-------------------------------------|---------|---------------------|
| <b>Programmable magnetic switch</b> |         |                     |
| MMS-P 22-S-M8-PNP                   | 0301370 | •                   |
| MMSK-P 22-S-PNP                     | 0301371 |                     |
| <b>Connection cables</b>            |         |                     |
| KA BG08-L 4P-0500                   | 0307767 |                     |
| KA BG08-L 4P-1000                   | 0307768 |                     |
| KA BW08-L 4P-0500                   | 0307765 |                     |
| KA BW08-L 4P-1000                   | 0307766 |                     |
| <b>Sensor Distributor</b>           |         |                     |
| V2-M8-4P-2XM8-3P                    | 0301380 |                     |

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

① Per gripper one sensor (closer/NO) is required, optionally a cable extension.

### Electronic magnetic switches



17 Cable outlet

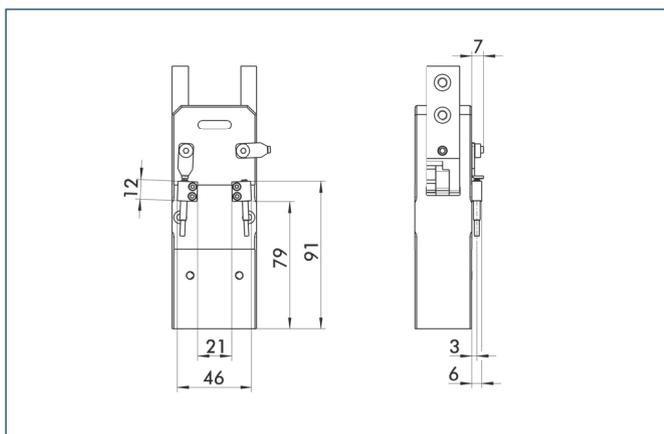
End position monitoring for mounting in the C-slot

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Reed Switches</b>  |         |                     |
| RMS 22-S-M8   | 0377720 | •                   |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

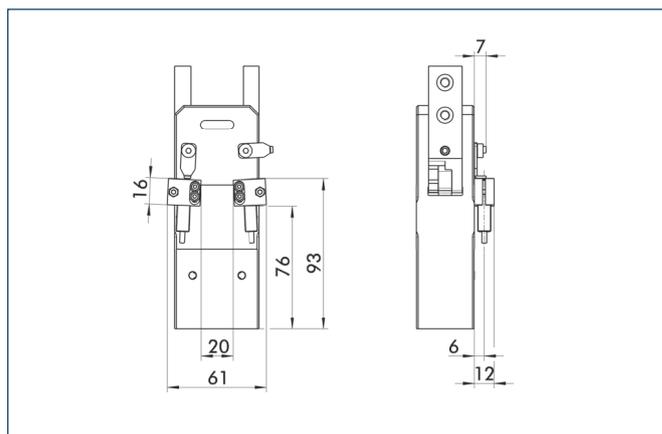
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 52-IN40                    | 0303624 |

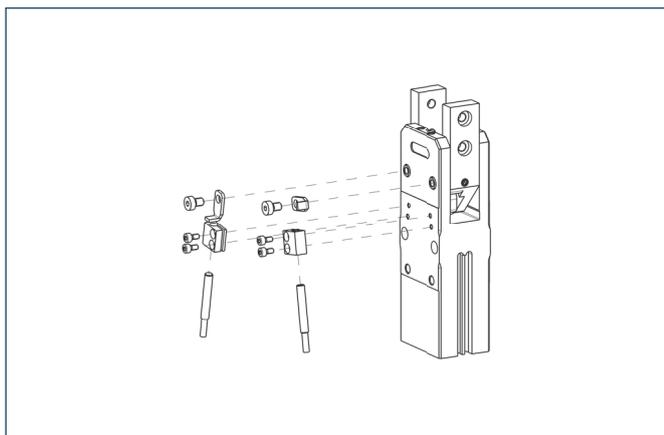
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 52-IN80                    | 0304135 |

### Inductive proximity switches

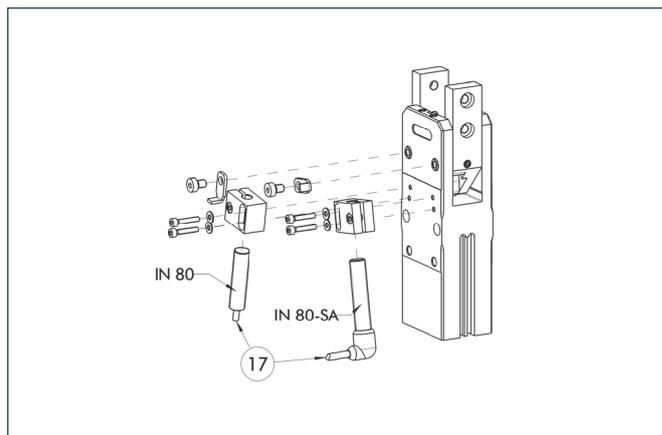


End position monitoring mounted with mounting kit

| Description                       | ID      | Recommended product |
|-----------------------------------|---------|---------------------|
| Mounting kit for proximity switch |         |                     |
| AS-PRG 52-IN40                    | 0303624 |                     |
| Inductive proximity switches      |         |                     |
| IN 40-S-M8                        | 0301474 | •                   |
| IN 40-S-M12                       | 0301574 |                     |
| INK 40-S                          | 0301555 |                     |
| IN 40-S-M5-PNP                    | 0301491 |                     |
| IN 40-S-M5-NPN                    | 0301492 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

### Inductive proximity switches



⑰ Cable outlet

End position monitoring mounted with mounting kit

| Description                                    | ID      | Recommended product |
|--|---------|---------------------|
| Mounting kit for proximity switch              |         |                     |
| AS-PRG 52-IN80                                 | 0304135 |                     |
| Inductive proximity switches                   |         |                     |
| IN 80-S-M8                                     | 0301478 | •                   |
| IN 80-S-M12                                    | 0301578 |                     |
| INK 80-S                                       | 0301550 |                     |
| Inductive proximity switch with lateral outlet |         |                     |
| IN 80-S-M12-SA                                 | 0301587 |                     |
| IN 80-S-M8-SA                                  | 0301483 | •                   |
| INK 80-S-SA                                    | 0301566 |                     |

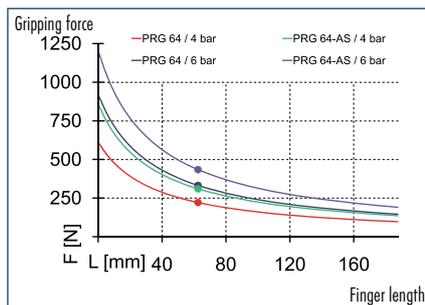
- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



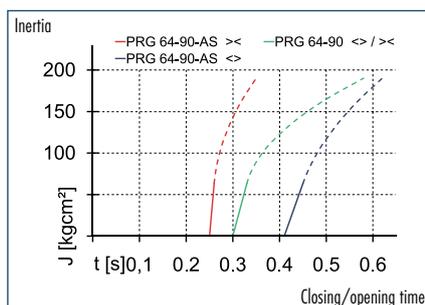
You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.



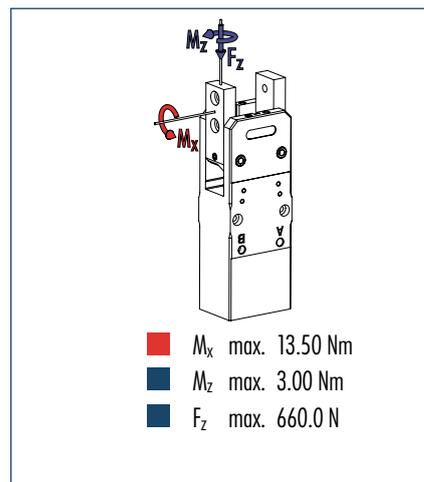
### Gripping force, O.D. gripping



### Maximum admissible inertia J



### Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

### Technical data

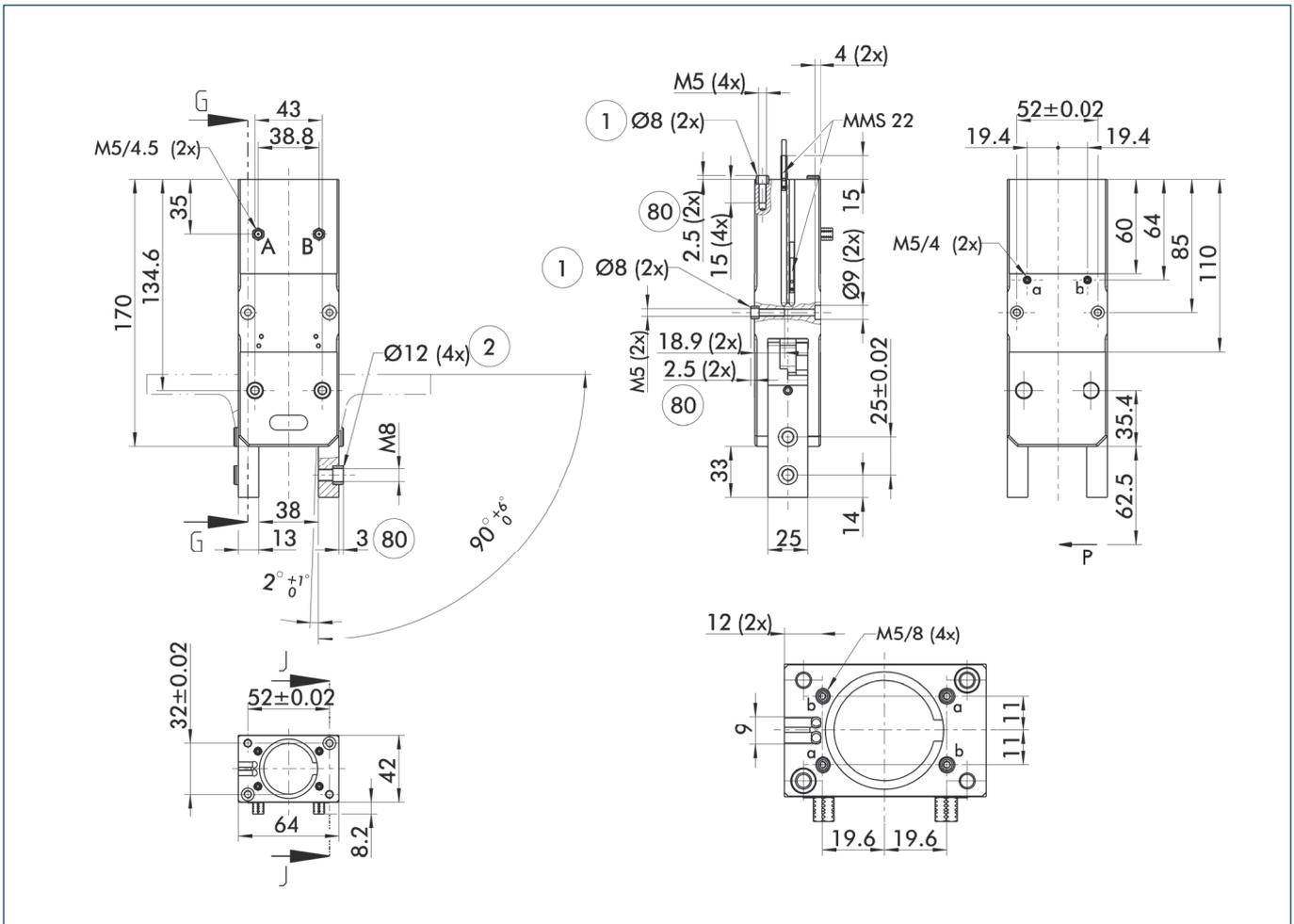
| Description                                 | PRG 64-30 | PRG 64-30-AS | PRG 64-60 | PRG 64-60-AS | PRG 64-90 | PRG 64-90-AS |
|---|-----------|--------------|-----------|--------------|-----------|--------------|
| ID  | 0303655   | 0303665      | 0303695   | 0303705      | 0303675   | 0303685      |
| Opening angle per jaw [°]                   | 30        | 30           | 60        | 60           | 90        | 90           |
| Closed angle per jaw up to [°]              | 4         | 4            | 4         | 4            | 4         | 4            |
| Closing moment [Nm]                         | 32.5      | 42.5         | 32.5      | 42.5         | 32.5      | 42.5         |
| Spring-actuated closing moment [Nm]         |           | 10           |           | 10           |           | 10           |
| Weight [kg]                                 | 1.35      | 1.42         | 1.34      | 1.41         | 1.33      | 1.4          |
| Recommended workpiece weight [kg]           | 1.69      | 2.21         | 1.69      | 2.21         | 1.69      | 2.21         |
| Air consumption per double stroke [cm³]     | 88        | 88           | 102       | 102          | 120       | 120          |
| Min./max. operating pressure [bar]          | 2/8       | 4/6.5        | 2/8       | 4/6.5        | 2/8       | 4/6.5        |
| Nominal operating pressure [bar]            | 6         | 6            | 6         | 6            | 6         | 6            |
| Closing time [s]                            | 0.1       | 0.08         | 0.2       | 0.17         | 0.3       | 0.25         |
| Opening time [s]                            | 0.1       | 0.14         | 0.2       | 0.27         | 0.3       | 0.41         |
| Max. permitted finger length [mm]           | 125       | 125          | 125       | 125          | 125       | 125          |
| Max. mass moment of inertia per jaw [kgcm²] | 63.37     | 63.37        | 63.37     | 63.37        | 63.37     | 63.37        |
| IP class                                    | 20        | 20           | 20        | 20           | 20        | 20           |
| Min./max. ambient temperature [°C]          | -10/90    | -10/90       | -10/90    | -10/90       | -10/90    | -10/90       |
| Repeat accuracy [mm]                        | 0.05      | 0.05         | 0.05      | 0.05         | 0.05      | 0.05         |

### OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303655 | 39303665 | 39303695 | 39303705 | 39303675 | 39303685 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.

## Main view



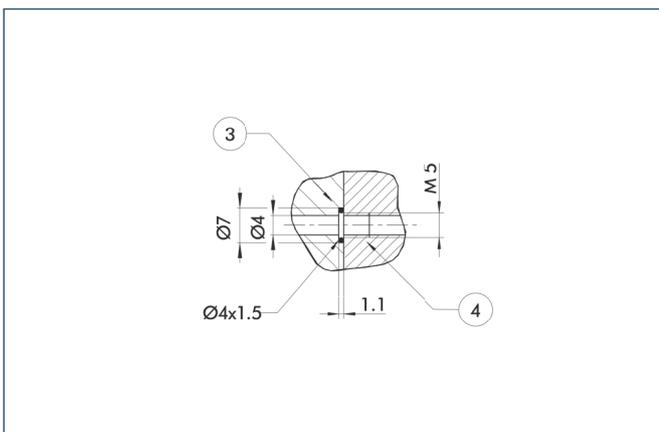
The drawing shows the gripper in the basic version with closed jaws, the dimensions do not include the options described below.

① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see "Accessories" catalog section).

- A, a Main/direct connection, gripper opening
- B, b Main/direct connection, gripper closing
- ① Gripper connection
- ② Finger connection

⊗ Depth of the centering sleeve hole in the matching part

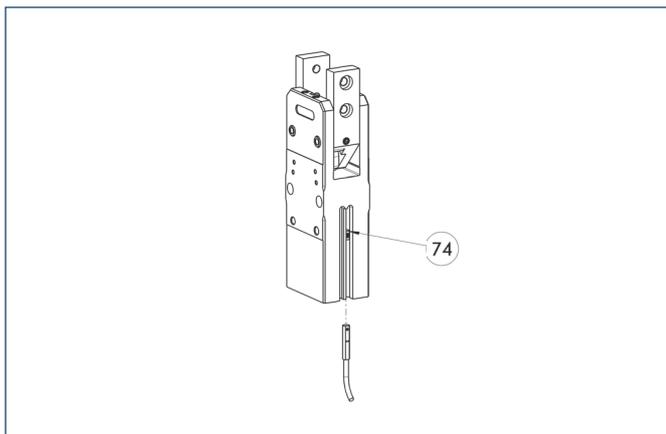
## Hose-free direct connection



- ③ Adapter
- ④ Gripper

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

### Programmable magnetic switch



74 Stop for MMS-P

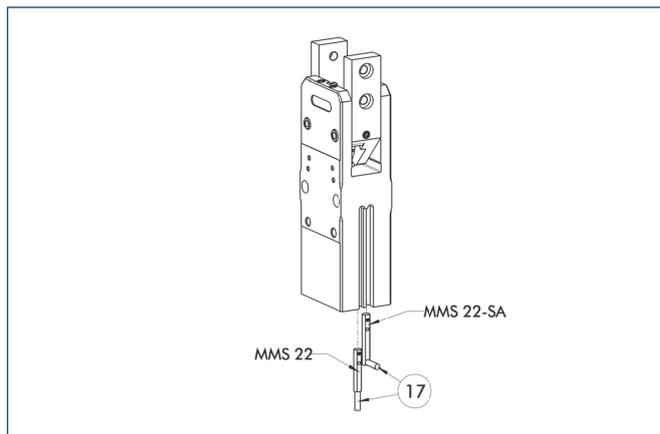
Position monitoring with two programmable positions per sensor. The end position monitoring is mounted in the C-slot.

| Description                         | ID      | Recommended product |
|-------------------------------------|---------|---------------------|
| <b>Programmable magnetic switch</b> |         |                     |
| MMS-P 22-S-M8-PNP                   | 0301370 | •                   |
| MMSK-P 22-S-PNP                     | 0301371 |                     |
| <b>Connection cables</b>            |         |                     |
| KA BG08-L 4P-0500                   | 0307767 |                     |
| KA BG08-L 4P-1000                   | 0307768 |                     |
| KA BW08-L 4P-0500                   | 0307765 |                     |
| KA BW08-L 4P-1000                   | 0307766 |                     |
| <b>Sensor Distributor</b>           |         |                     |
| V2-M8-4P-2XM8-3P                    | 0301380 |                     |

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

① Per gripper one sensor (closer/NO) is required, optionally a cable extension.

### Electronic magnetic switches



17 Cable outlet

End position monitoring for mounting in the C-slot

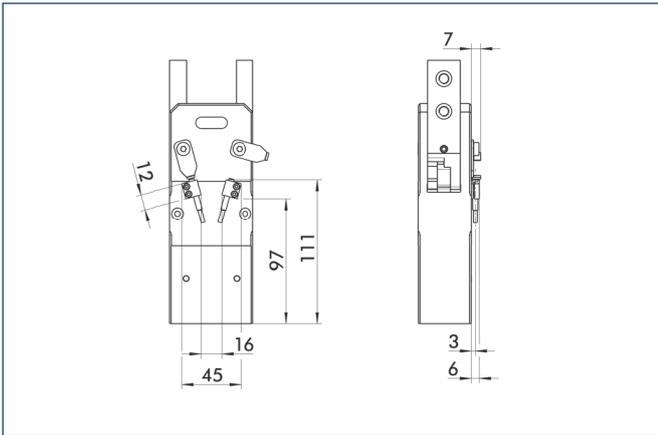
| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Reed Switches</b>  |         |                     |
| RMS 22-S-M8   | 0377720 | •                   |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.

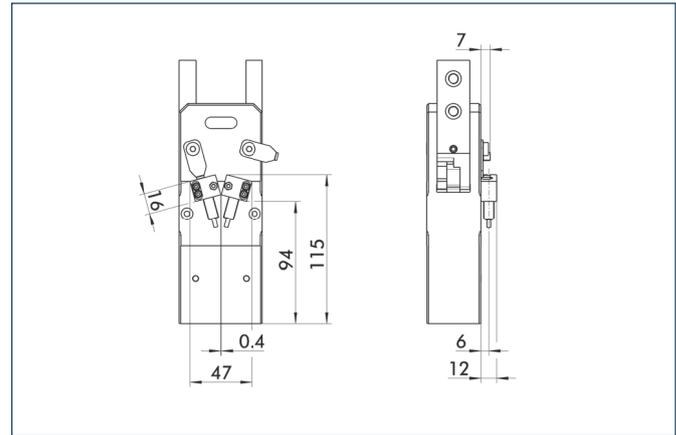
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 64-IN40                    | 0303625 |

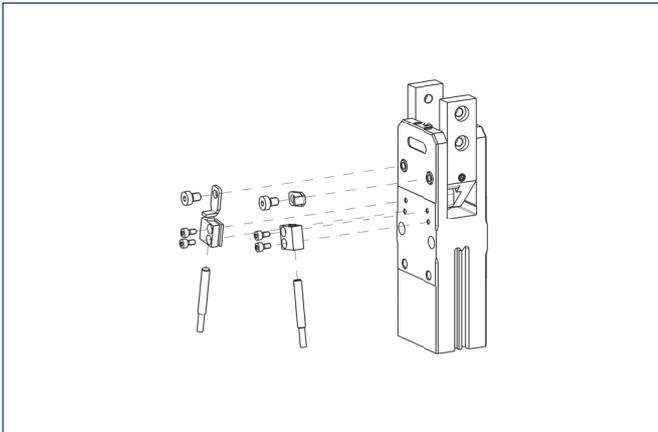
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                       | ID      |
|-----------------------------------|---------|
| Mounting kit for proximity switch |         |
| AS-PRG 64-IN80                    | 0304136 |

### Inductive proximity switches

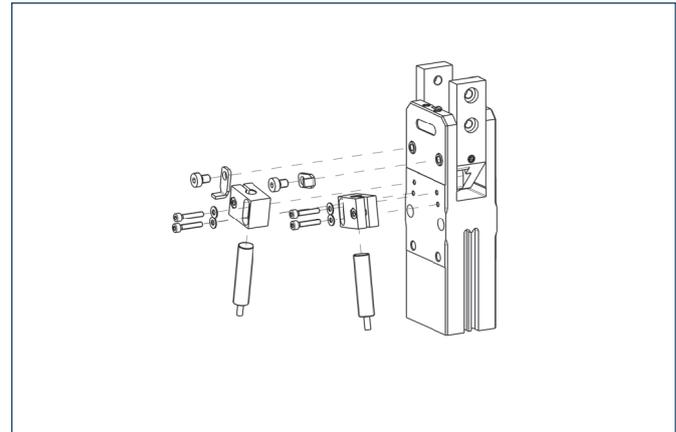


End position monitoring mounted with mounting kit

| Description                       | ID      | Recommended product |
|-----------------------------------|---------|---------------------|
| Mounting kit for proximity switch |         |                     |
| AS-PRG 64-IN40                    | 0303625 |                     |
| Inductive proximity switches      |         |                     |
| IN 40-S-M8                        | 0301474 | •                   |
| IN 40-S-M12                       | 0301574 |                     |
| INK 40-S                          | 0301555 |                     |
| IN 40-S-M5-PNP                    | 0301491 |                     |
| IN 40-S-M5-NPN                    | 0301492 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

### Inductive proximity switches



End position monitoring mounted with mounting kit

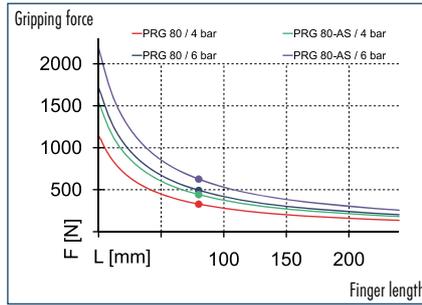
| Description                       | ID      | Recommended product |
|-----------------------------------|---------|---------------------|
| Mounting kit for proximity switch |         |                     |
| AS-PRG 64-IN80                    | 0304136 |                     |
| Inductive proximity switches      |         |                     |
| IN 80-S-M8                        | 0301478 | •                   |
| IN 80-S-M12                       | 0301578 |                     |
| INK 80-S                          | 0301550 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

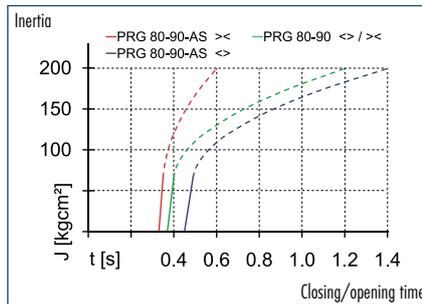
 You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.



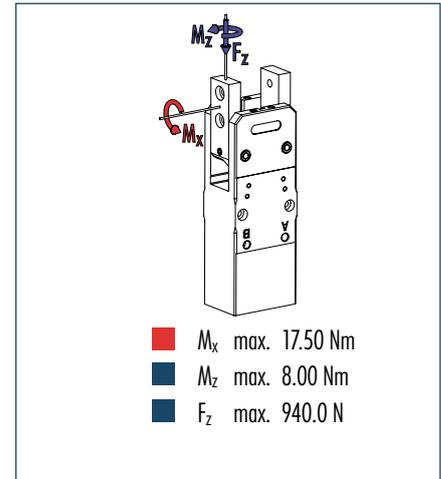
## Gripping force, O.D. gripping



## Maximum admissible inertia J



## Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

## Technical data

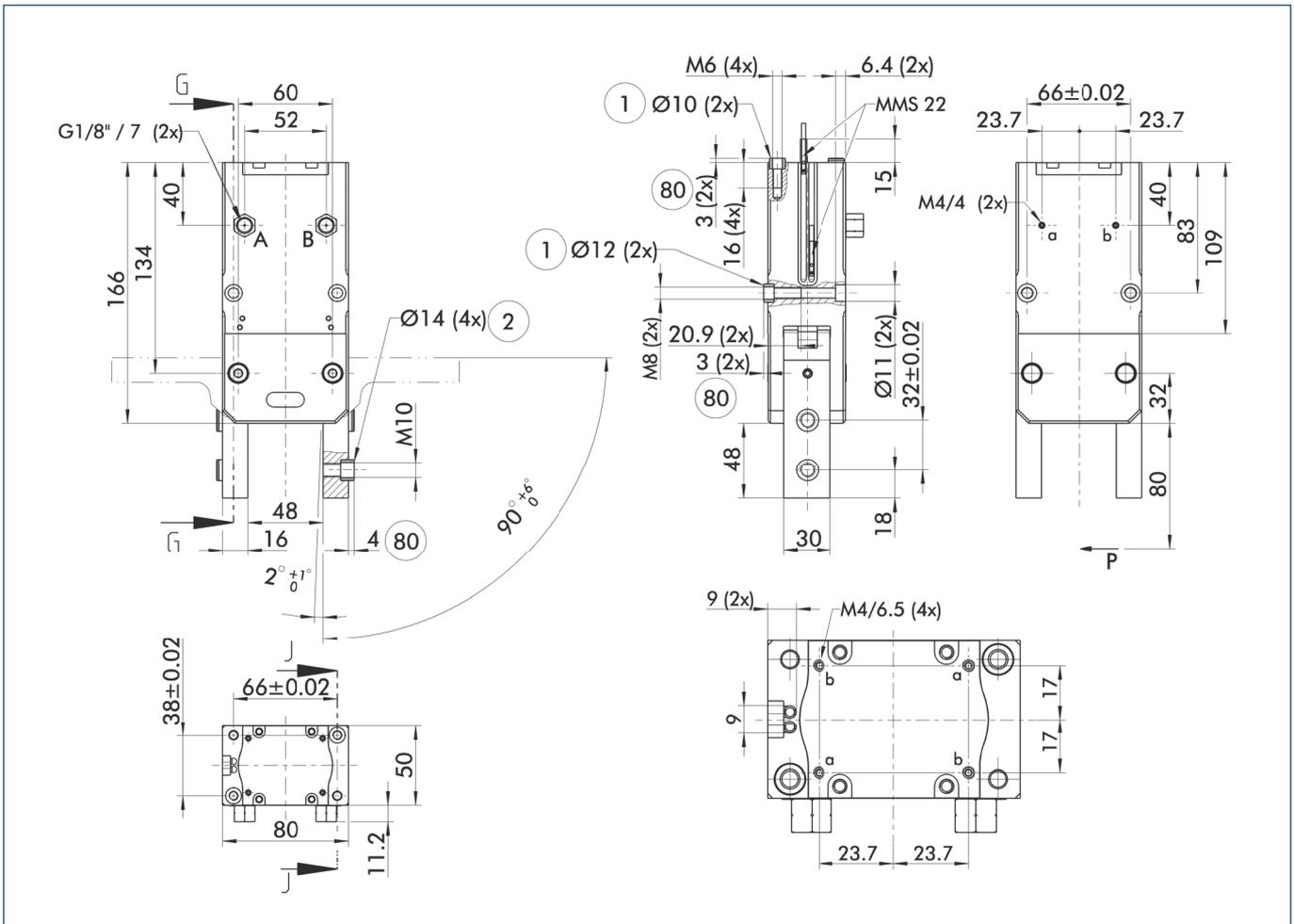
| Description                                 | PRG 80-30 | PRG 80-30-AS | PRG 80-60 | PRG 80-60-AS | PRG 80-90 | PRG 80-90-AS |
|---|-----------|--------------|-----------|--------------|-----------|--------------|
| ID  | 0303656   | 0303666      | 0303696   | 0303706      | 0303676   | 0303686      |
| Opening angle per jaw [°]                   | 30        | 30           | 60        | 60           | 90        | 90           |
| Closed angle per jaw up to [°]              | 4         | 4            | 4         | 4            | 4         | 4            |
| Closing moment [Nm]                         | 55        | 70           | 55        | 70           | 55        | 70           |
| Spring-actuated closing moment [Nm]         |           | 15           |           | 15           |           | 15           |
| Weight [kg]                                 | 2.17      | 2.26         | 2.16      | 2.25         | 2.15      | 2.24         |
| Recommended workpiece weight [kg]           | 2.5       | 3.19         | 2.5       | 3.19         | 2.5       | 3.19         |
| Air consumption per double stroke [cm³]     | 128       | 128          | 143       | 143          | 160       | 160          |
| Min./max. operating pressure [bar]          | 2/8       | 4/6.5        | 2/8       | 4/6.5        | 2/8       | 4/6.5        |
| Nominal operating pressure [bar]            | 6         | 6            | 6         | 6            | 6         | 6            |
| Closing time [s]                            | 0.12      | 0.11         | 0.25      | 0.22         | 0.37      | 0.33         |
| Opening time [s]                            | 0.12      | 0.15         | 0.25      | 0.3          | 0.37      | 0.45         |
| Max. permitted finger length [mm]           | 160       | 160          | 160       | 160          | 160       | 160          |
| Max. mass moment of inertia per jaw [kgcm²] | 66.44     | 66.44        | 66.44     | 66.44        | 66.44     | 66.44        |
| IP class                                    | 20        | 20           | 20        | 20           | 20        | 20           |
| Min./max. ambient temperature [°C]          | -10/90    | -10/90       | -10/90    | -10/90       | -10/90    | -10/90       |
| Repeat accuracy [mm]                        | 0.1       | 0.1          | 0.1       | 0.1          | 0.1       | 0.1          |

## OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303656 | 39303666 | 39303696 | 39303706 | 39303676 | 39303686 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.

### Main view



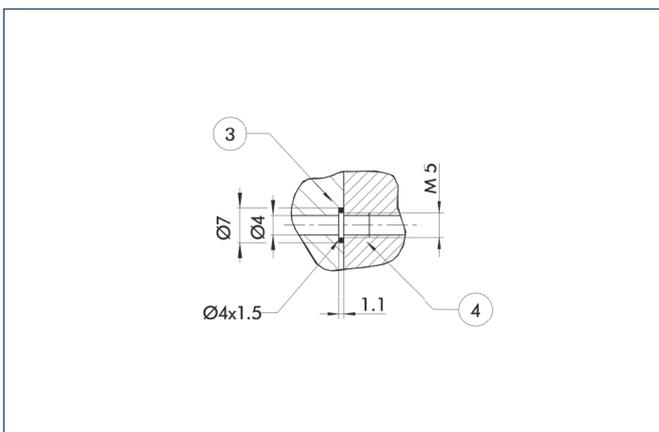
The drawing shows the gripper in the basic version with closed jaws, the dimensions do not include the options described below.

① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see "Accessories" catalog section).

A, a Main/direct connection, gripper opening  
 B, b Main/direct connection, gripper closing  
 ① Gripper connection  
 ② Finger connection

⊗ Depth of the centering sleeve hole in the matching part

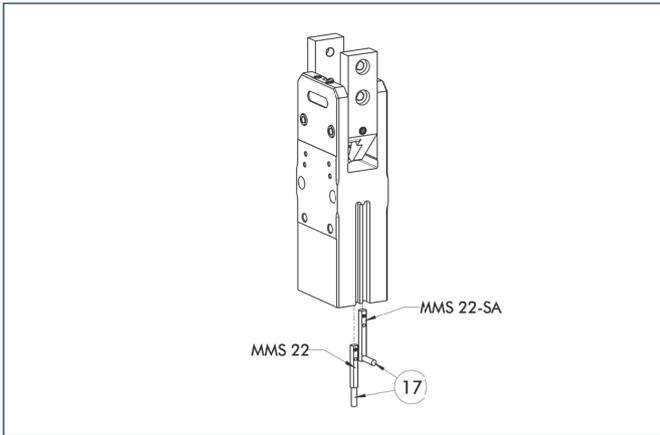
### Hose-free direct connection



③ Adapter  
 ④ Gripper

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

### Electronic magnetic switches



⑰ Cable outlet

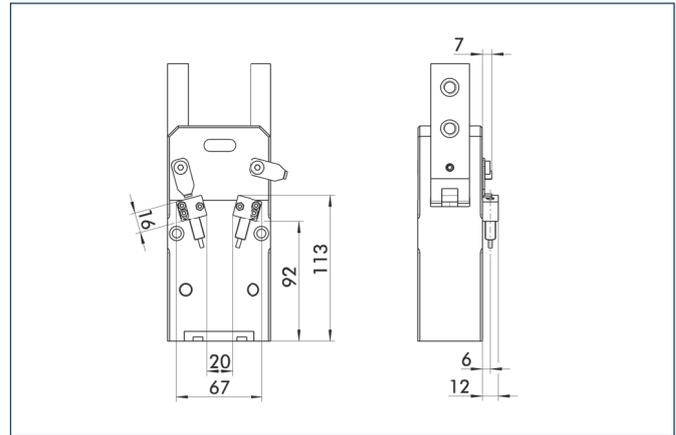
End position monitoring for mounting in the C-slot

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

### Mounting kit for proximity switch



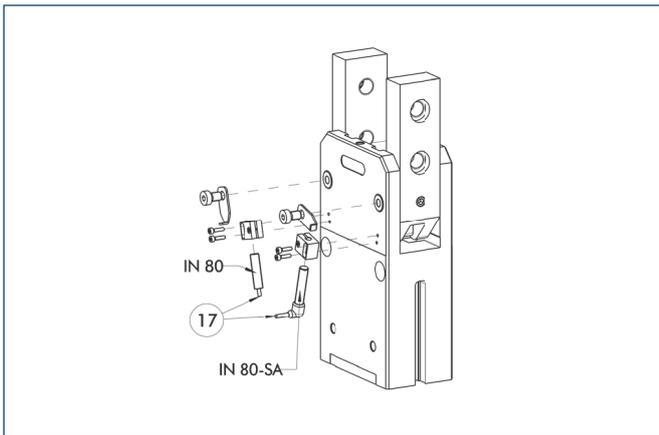
The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                              | ID      |
|--|---------|
| <b>Mounting kit for proximity switch</b> |         |
| AS-PRG 80-IN80                           | 0303626 |



You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.

## Inductive proximity switches



17 Cable outlet

End position monitoring mounted with mounting kit

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Mounting kit for proximity switch</b>              |         |                     |
| AS-PRG 80-IN80  | 0303626 |                     |
| <b>Inductive proximity switches</b>                   |         |                     |
| IN 80-S-M8  | 0301478 | •                   |
| IN 80-S-M12   | 0301578 |                     |
| INK 80-S  | 0301550 |                     |
| <b>Inductive proximity switch with lateral outlet</b> |         |                     |
| IN 80-S-M12-SA  | 0301587 |                     |
| IN 80-S-M8-SA   | 0301483 | •                   |
| INK 80-S-SA   | 0301566 |                     |

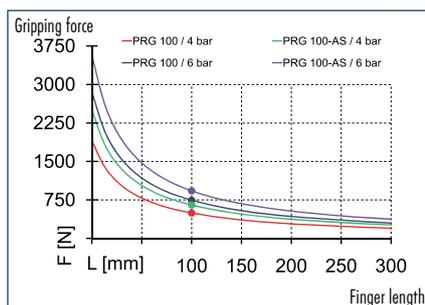
- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



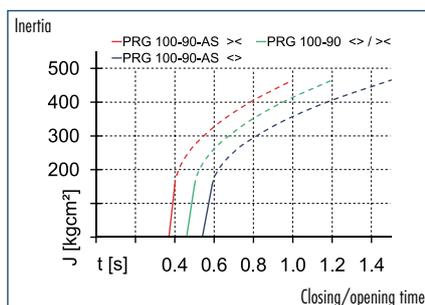
You can find more detailed information and individual parts of the above-mentioned accessories in the “Accessories” catalog section.



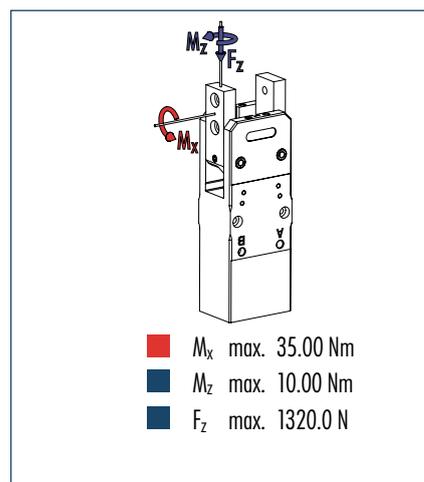
### Gripping force, O.D. gripping



### Maximum admissible inertia J



### Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

### Technical data

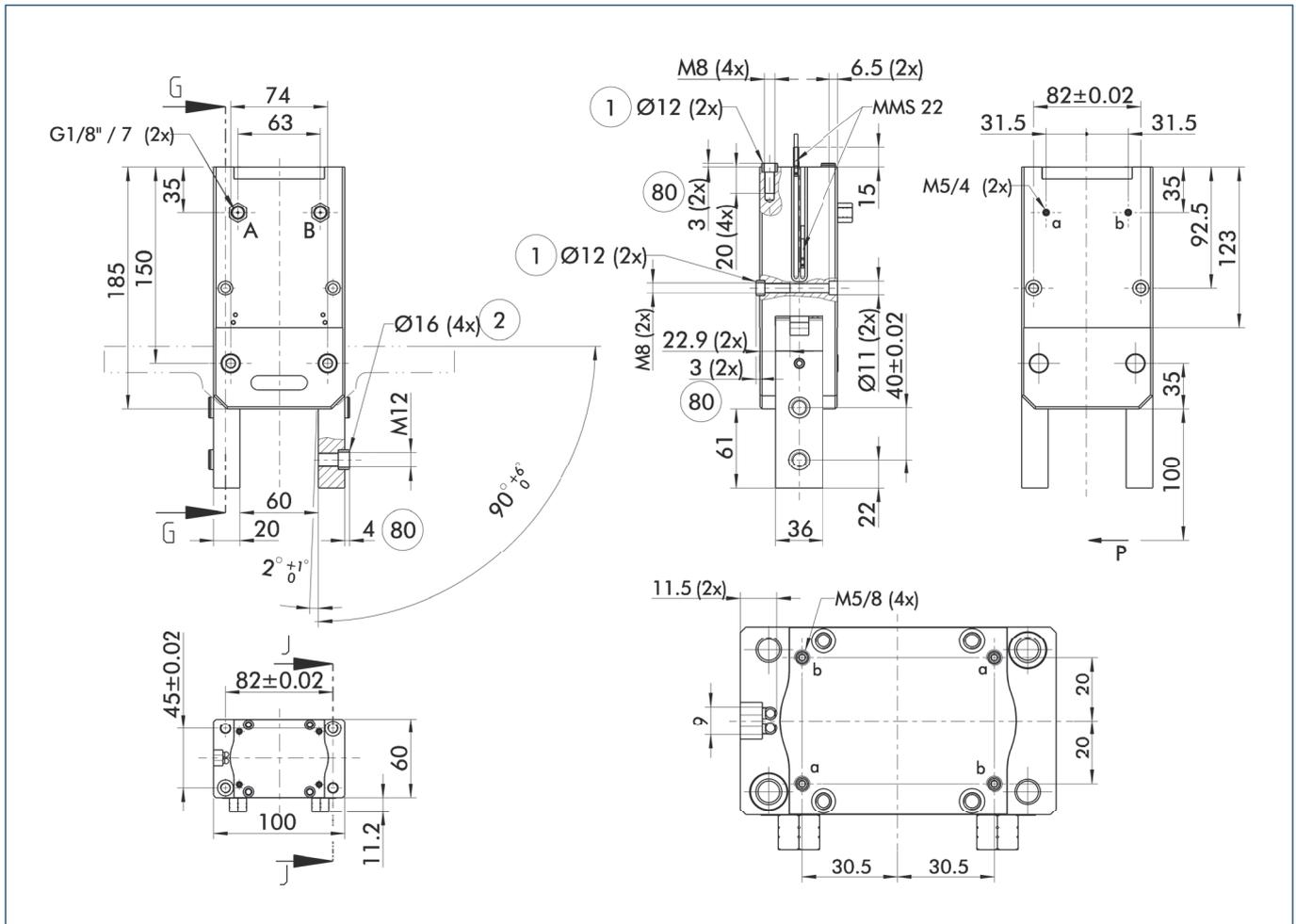
| Description                                 | PRG 100-30 | PRG 100-30-AS | PRG 100-60 | PRG 100-60-AS | PRG 100-90 | PRG 100-90-AS |
|---|------------|---------------|------------|---------------|------------|---------------|
| ID  | 0303657    | 0303667       | 0303697    | 0303707       | 0303677    | 0303687       |
| Opening angle per jaw [°]                   | 30         | 30            | 60         | 60            | 90         | 90            |
| Closed angle per jaw up to [°]              | 4          | 4             | 4          | 4             | 4          | 4             |
| Closing moment [Nm]                         | 100        | 125           | 100        | 125           | 100        | 125           |
| Spring-actuated closing moment [Nm]         |            | 25            |            | 25            |            | 25            |
| Weight [kg]                                 | 3.67       | 3.81          | 3.66       | 3.8           | 3.64       | 3.78          |
| Recommended workpiece weight [kg]           | 3.78       | 4.72          | 3.78       | 4.72          | 3.78       | 4.72          |
| Air consumption per double stroke [cm³]     | 230        | 230           | 260        | 260           | 290        | 290           |
| Min./max. operating pressure [bar]          | 2/8        | 4/6.5         | 2/8        | 4/6.5         | 2/8        | 4/6.5         |
| Nominal operating pressure [bar]            | 6          | 6             | 6          | 6             | 6          | 6             |
| Closing time [s]                            | 0.15       | 0.12          | 0.31       | 0.25          | 0.46       | 0.37          |
| Opening time [s]                            | 0.15       | 0.18          | 0.31       | 0.36          | 0.46       | 0.54          |
| Max. permitted finger length [mm]           | 200        | 200           | 200        | 200           | 200        | 200           |
| Max. mass moment of inertia per jaw [kgcm²] | 155.2      | 155.2         | 155.2      | 155.2         | 155.2      | 155.2         |
| IP class                                    | 20         | 20            | 20         | 20            | 20         | 20            |
| Min./max. ambient temperature [°C]          | -10/90     | -10/90        | -10/90     | -10/90        | -10/90     | -10/90        |
| Repeat accuracy [mm]                        | 0.1        | 0.1           | 0.1        | 0.1           | 0.1        | 0.1           |

### OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303657 | 39303667 | 39303697 | 39303707 | 39303677 | 39303687 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.

## Main view



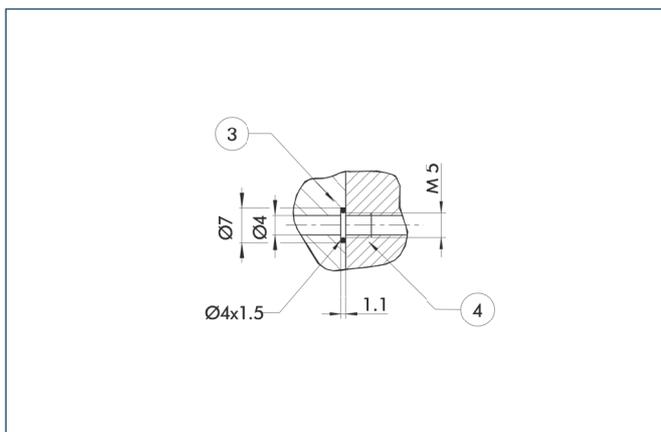
The drawing shows the gripper in the basic version with closed jaws, the dimensions do not include the options described below.

① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see "Accessories" catalog section).

A, a Main/direct connection, gripper opening  
 B, b Main/direct connection, gripper closing  
 ① Gripper connection  
 ② Finger connection

⊗ Depth of the centering sleeve hole in the matching part

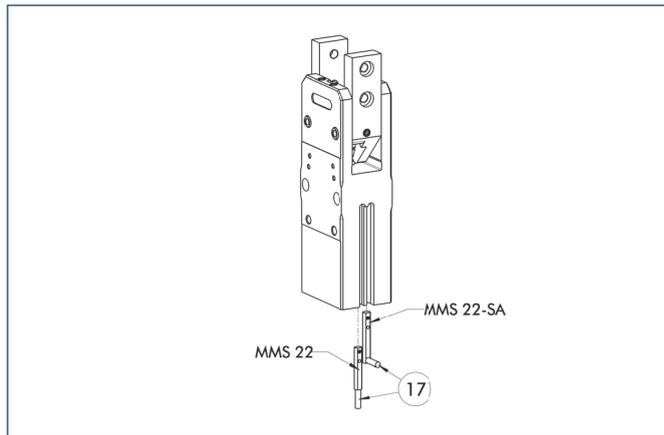
## Hose-free direct connection



③ Adapter  
 ④ Gripper

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

### Electronic magnetic switches



⑰ Cable outlet

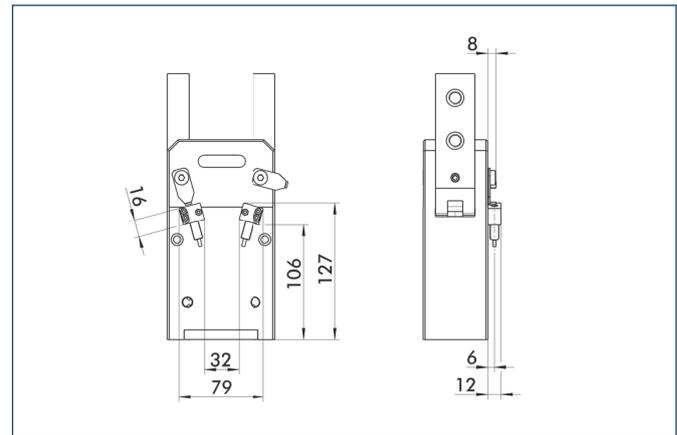
End position monitoring for mounting in the C-slot

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

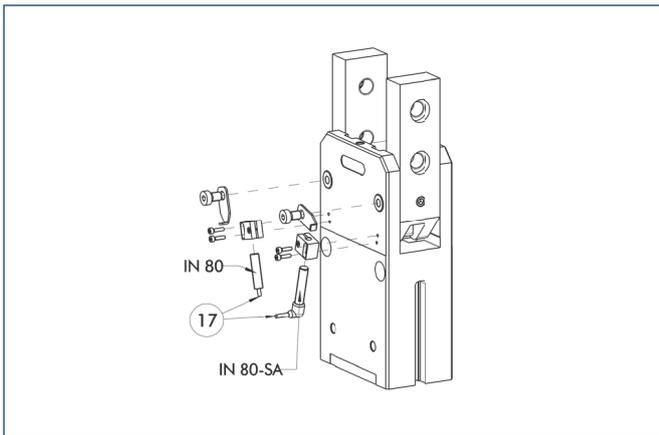
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                              | ID      |
|--|---------|
| <b>Mounting kit for proximity switch</b> |         |
| AS-PRG 100-IN80                          | 0303627 |

## Inductive proximity switches



17 Cable outlet

End position monitoring mounted with mounting kit

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Mounting kit for proximity switch</b>              |         |                     |
| AS-PRG 100-IN80                                       | 0303627 |                     |
| <b>Inductive proximity switches</b>                   |         |                     |
| IN 80-S-M8  | 0301478 | •                   |
| IN 80-S-M12   | 0301578 |                     |
| INK 80-S  | 0301550 |                     |
| <b>Inductive proximity switch with lateral outlet</b> |         |                     |
| IN 80-S-M12-SA  | 0301587 |                     |
| IN 80-S-M8-SA   | 0301483 | •                   |
| INK 80-S-SA   | 0301566 |                     |

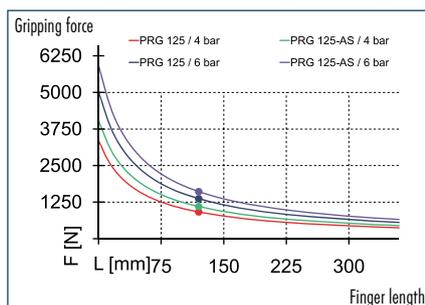
- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



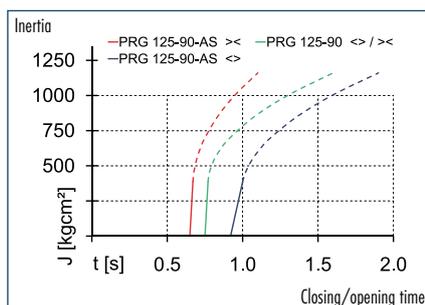
You can find more detailed information and individual parts of the above-mentioned accessories in the "Accessories" catalog section.



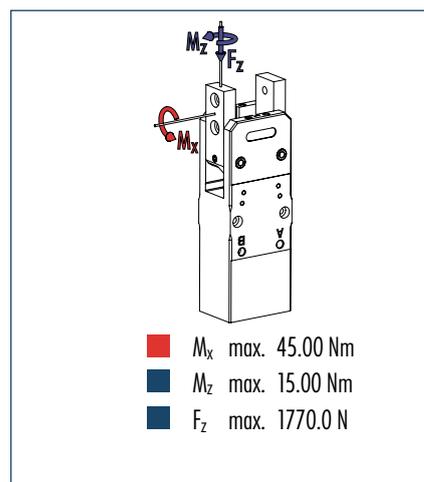
### Gripping force, O.D. gripping



### Maximum admissible inertia J



### Finger load



① The indicated moments and forces are statical values, apply for each base jaw and should not appear simultaneously. If the maximum admissible finger weight is exceeded, throttling is necessary in order to ensure a smooth jaw motion without jerks or bounces. The life-time may reduce.

### Technical data

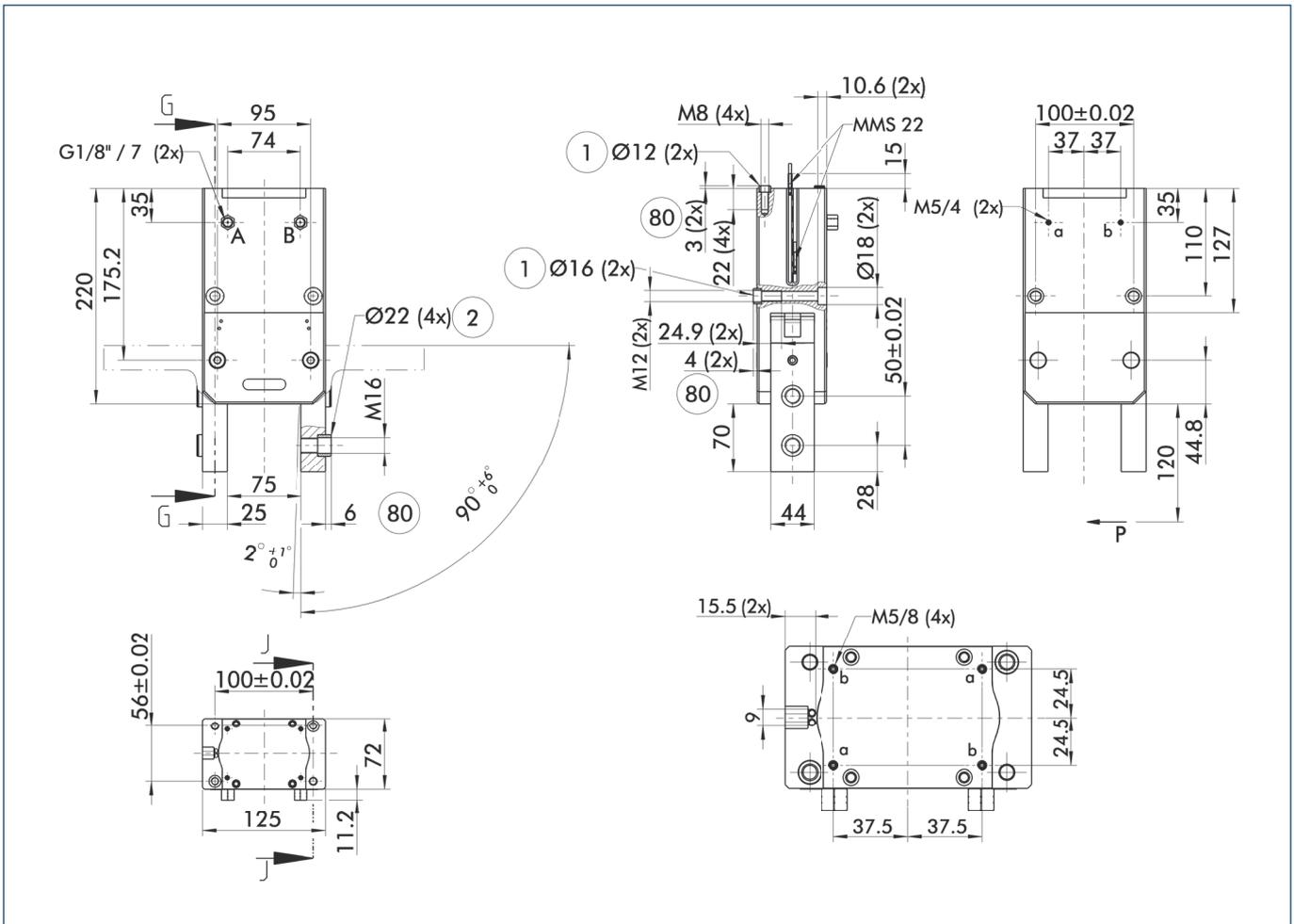
| Description                                 | PRG 125-30 | PRG 125-30-AS | PRG 125-60 | PRG 125-60-AS | PRG 125-90 | PRG 125-90-AS |
|---|------------|---------------|------------|---------------|------------|---------------|
| ID  | 0303658    | 0303668       | 0303698    | 0303708       | 0303678    | 0303688       |
| Opening angle per jaw [°]                   | 30         | 30            | 60         | 60            | 90         | 90            |
| Closed angle per jaw up to [°]              | 4          | 4             | 4          | 4             | 4          | 4             |
| Closing moment [Nm]                         | 225        | 295           | 225        | 295           | 225        | 295           |
| Spring-actuated closing moment [Nm]         |            | 70            |            | 70            |            | 70            |
| Weight [kg]                                 | 6.49       | 6.72          | 6.48       | 6.71          | 6.46       | 6.69          |
| Recommended workpiece weight [kg]           | 6.96       | 9.12          | 6.96       | 9.12          | 6.96       | 9.12          |
| Air consumption per double stroke [cm³]     | 475        | 475           | 520        | 520           | 580        | 580           |
| Min./max. operating pressure [bar]          | 2/8        | 4/6.5         | 2/8        | 4/6.5         | 2/8        | 4/6.5         |
| Nominal operating pressure [bar]            | 6          | 6             | 6          | 6             | 6          | 6             |
| Closing time [s]                            | 0.25       | 0.22          | 0.5        | 0.43          | 0.75       | 0.65          |
| Opening time [s]                            | 0.25       | 0.31          | 0.5        | 0.61          | 0.75       | 0.92          |
| Max. permitted finger length [mm]           | 240        | 240           | 240        | 240           | 240        | 240           |
| Max. mass moment of inertia per jaw [kgcm²] | 386.8      | 386.8         | 386.8      | 386.8         | 386.8      | 386.8         |
| IP class                                    | 20         | 20            | 20         | 20            | 20         | 20            |
| Min./max. ambient temperature [°C]          | -10/90     | -10/90        | -10/90     | -10/90        | -10/90     | -10/90        |
| Repeat accuracy [mm]                        | 0.1        | 0.1           | 0.1        | 0.1           | 0.1        | 0.1           |

### OPTIONS and their characteristics

|                                    |          |          |          |          |          |          |
|------------------------------------|----------|----------|----------|----------|----------|----------|
| High-temperature version           | 39303658 | 39303668 | 39303698 | 39303708 | 39303678 | 39303688 |
| Min./max. ambient temperature [°C] | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  | -10/130  |

① The unit can be actuated without an external customer-specific throttling at the given value of max. mass moment of inertia per jaw. In case of higher mass moments of inertia, an additional throttling is possible (see diagram). The curve applies for 90° versions. For other versions the curve must be parallelly off-set according to the opening and closing times.

## Main view



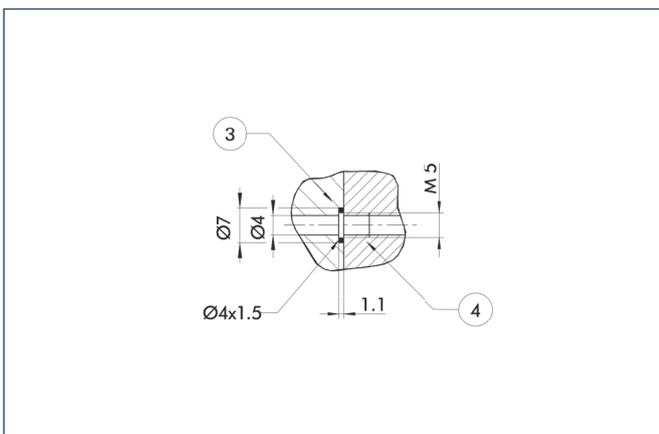
The drawing shows the gripper in the basic version with closed jaws, the dimensions do not include the options described below.

① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see "Accessories" catalog section).

A, a Main/direct connection, gripper opening  
 B, b Main/direct connection, gripper closing  
 ① Gripper connection  
 ② Finger connection

⊗ Depth of the centering sleeve hole in the matching part

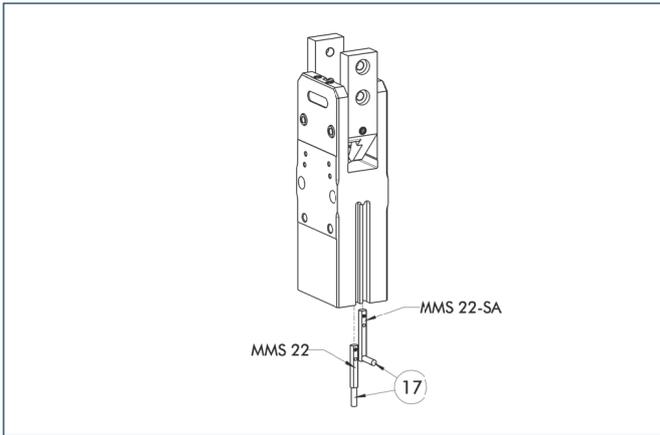
## Hose-free direct connection



③ Adapter  
 ④ Gripper

The direct connection is used for supplying compressed air without hoses. Instead, the pressure medium is fed through bore-holes in the mounting plate.

### Electronic magnetic switches



⑰ Cable outlet

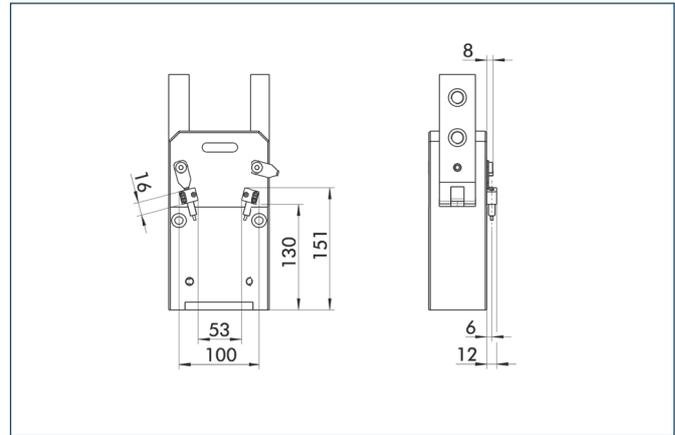
End position monitoring for mounting in the C-slot

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Electronic magnetic switches</b>                           |         |                     |
| MMS 22-S-M5-PNP   | 0301438 |                     |
| MMS 22-S-M5-NPN   | 0301439 |                     |
| MMS 22-S-M8-PNP   | 0301432 | •                   |
| MMS 22-S-M8-NPN   | 0301433 |                     |
| MMSK 22-S-PNP   | 0301434 |                     |
| MMSK 22-S-NPN   | 0301435 |                     |
| <b>Electronic magnetic switches with lateral cable outlet</b> |         |                     |
| MMS 22-S-M5-PNP-SA  | 0301448 |                     |
| MMS 22-S-M5-NPN-SA  | 0301449 |                     |
| MMS 22-S-M8-PNP-SA  | 0301442 | •                   |
| MMS 22-S-M8-NPN-SA  | 0301443 |                     |
| MMSK 22-S-PNP-SA  | 0301444 |                     |
| MMSK 22-S-NPN-SA  | 0301445 |                     |
| <b>Connection cables</b>                                      |         |                     |
| KA BG05-L 3P-0300   | 0301652 |                     |
| KA BG08-L 3P-0300-PNP   | 0301622 |                     |
| KA BG08-L 3P-0500-PNP   | 0301623 |                     |
| KA BW05-L 3P-0300   | 0301650 |                     |
| KA BW08-L 3P-0300-NPN   | 0301602 |                     |
| KA BW08-L 3P-0300-PNP   | 0301594 |                     |
| KA BW08-L 3P-0500-NPN   | 9641116 |                     |
| KA BW08-L 3P-0500-PNP   | 0301502 |                     |
| <b>Cable extensions</b>                                       |         |                     |
| KV BW08-SG08 3P-0030-PNP                                      | 0301495 |                     |
| KV BW08-SG08 3P-0100-PNP                                      | 0301496 |                     |
| KV BW08-SG08 3P-0200-PNP                                      | 0301497 |                     |

① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.

① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.

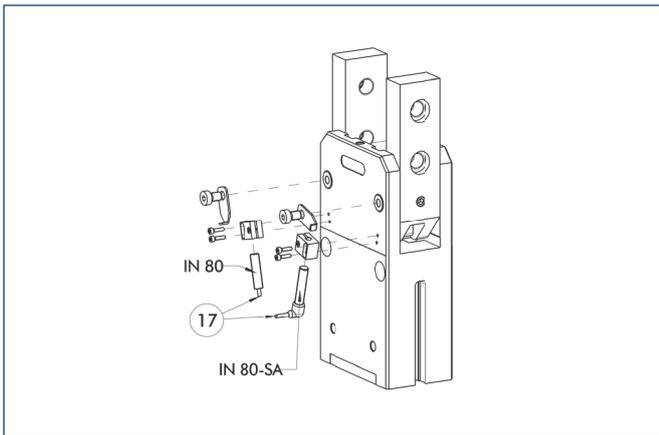
### Mounting kit for proximity switch



The mounting kit consists of brackets, control cams and appropriate fastening materials. Proximity switches have to be ordered separately.

| Description                              | ID      |
|--|---------|
| <b>Mounting kit for proximity switch</b> |         |
| AS-PRG 125-IN80                          | 0303628 |

## Inductive proximity switches



17 Cable outlet

End position monitoring mounted with mounting kit

| Description   | ID      | Recommended product |
|---|---------|---------------------|
| <b>Mounting kit for proximity switch</b>              |         |                     |
| AS-PRG 125-IN80                                       | 0303628 |                     |
| <b>Inductive proximity switches</b>                   |         |                     |
| IN 80-S-M8  | 0301478 | •                   |
| IN 80-S-M12   | 0301578 |                     |
| INK 80-S  | 0301550 |                     |
| <b>Inductive proximity switch with lateral outlet</b> |         |                     |
| IN 80-S-M12-SA  | 0301587 |                     |
| IN 80-S-M8-SA   | 0301483 | •                   |
| INK 80-S-SA   | 0301566 |                     |

- ① Two sensors (closer/NO) are required for each gripper, plus extension cables as an option.
- ① Please note the minimum permitted bending radii for the sensor cables, which are generally 35 mm.



You can find more detailed information and individual parts of the above-mentioned accessories in the “Accessories” catalog section.