

Sizes 50 .. 380



Weight 0.125 kg .. 28.0 kg



Gripping force 100 N .. 15100 N



Stroke per finger 2 mm .. 45 mm



Force-fit gripping 0.5 kg .. 75.0 kg

Application example



Horizontal turning station with 180° reorientation of the workpiece







Gantry Axis LIRAX-P-SLF-01



Universal Gripper

Universal 2-finger parallel gripper with high gripping force and robust T-slot guidance. Please use the PGN only for replacement orders, for new designs please use the successor model PGN-plus.

Area of application

For universal use in clean to slightly dirty environments. Special solutions are available for use in high temperatures, with dust or corrosion protection. Please ask for more details!

Your advantages and benefits

High precision T-slot guidance

For precise handling of a varied range of workpieces

High maximum moments

Suitable for use with long gripper fingers

Can be attached from two sides in three screw directions

For universal and flexible gripper mounting

Air supply via hose-free direct connection or via fittings

For flexible pressure supply in all automated systems

Double-sided air purge connection

To keep dirt out of the guidance areas



General information on the series

Working principle

Wedge-hook kinematics

Housing material

Aluminum alloy, hard-anodized

Base jaws material

Steel

Actuation

Pneumatic, via filtered compressed air (10 μ m): Dry, lubricated or non-lubricated Pressure medium: Requirement on the quality class of compressed air according to DIN ISO 8573-1: Quality class 4

Warranty

24 months

Scope of delivery

Brackets for proximity switches (only for sizes 64, 80), dowel pins, O-rings for direct connection, guide sleeves, assembly and operating manual with manufacturers declaration

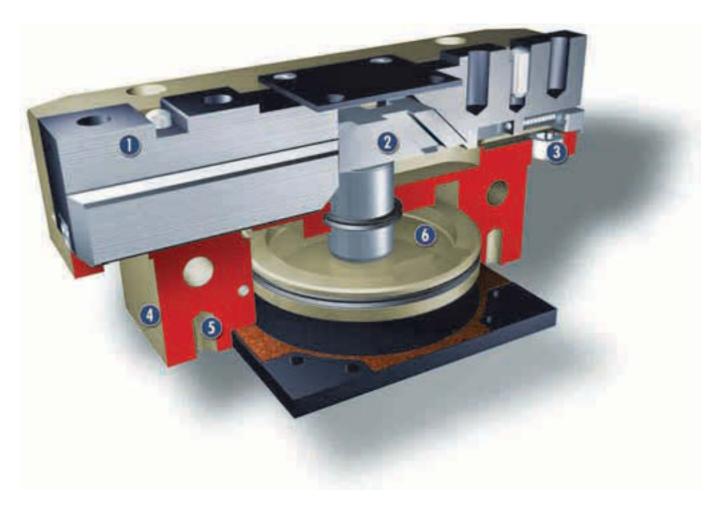
Maintenance of gripping force

Possible using variants with mechanical gripping force safety device or pressure maintenance valve SDV-P





Sectional diagram



- Base jaws
 for the adaptation of workpiece-specific
 gripper fingers
- Kinematics
 wedge hook design for high power
 transmission and synchronous gripping
- Sensor systems
 integrated brackets for proximity switches and
 adjustable operating targets
- Housing
 weight-reduced thanks to the use of a hardanodized, high-strength aluminum alloy
- Centering and mounting options for universal gripper mounting
- **Drive** pneumatic piston for actuation

Functional description

The round piston is pressed up or down by compressed air. Via its slanted working surfaces, the wedge hook redirects this movement into a lateral, synchronous gripping motion of the two base jaws.

Options and special information

Please use the PGN only for replacement orders, for new designs, please use the successor model PGN-plus.



Accessories

SCHUNK accessories — the suitable complement for the highest level of functionality, reliability and controlled production of all automation modules.

Fittings



Inductive proximity switches IN



Plastic inserts — Quentes



Sensor cables W/WK/KV/GK



Gripper pads HKI



Sensor distributor V



Pressure maintenance valves SDV-P



Finger blanks



Flexible position sensor



① Please refer to the additional views at the end of each size for the specific size of the equired accessory, availability for the gripper size, the description and the ID No. You can find more detailed information on our range of accessories in the "Accessories" catalog section.

General information on the series

Gripping force

is the arithmetic total of the gripping force applied to each base jaw at distance P (see illustration) measured from the upper edge of the gripper.

Finger length

is measured from the upper edge of the gripper housing in the direction of the main axis.

Repeat accuracy

is defined as the variance of the end position after 100 consecutive strokes.

Workpiece weight

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

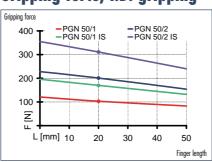
Closing and opening times

Closing and opening times are the pure movement times of the base jaws or fingers. Valve switching times, hose filling times or PLC reaction times are not included and must be taken into consideration when determining cycle times.

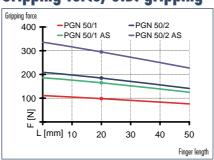




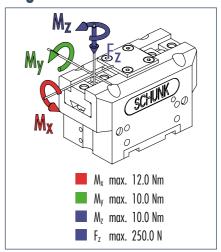
Gripping force, I.D. gripping



Gripping force, O.D. gripping

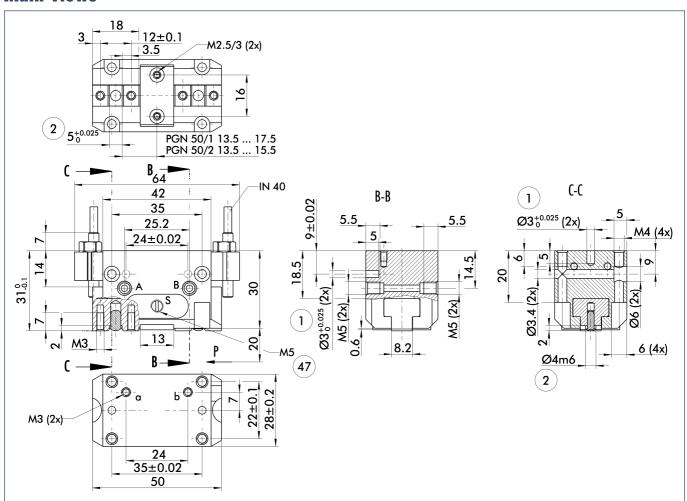


Finger load



Moments and forces apply per base jaw and may occur simultaneously. M_V may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

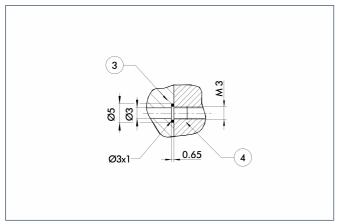
Designation		PGN 50-1	PGN 50-2	PGN 50-1 AS	PGN 50-2 AS	PGN 50-1 IS	PGN 50-2 IS
	ID	0370099	0370149	0370399	0370449	0370459	0370469
Stroke per finger	[mm]	4.0	2.0	4.0	2.0	4.0	2.0
Closing force	[N]	100.0	180.0	160.0	190.0		
Opening force	[N]	110.0	200.0			155.0	280.0
Min. gripping force by spring	[N]			30.0	60.0	30.0	60.0
Weight	[kg]	0.125	0.125	0.14	0.14	0.14	0.14
Recommended workpiece weight	[kg]	0.5	0.9	0.5	0.9	0.5	0.9
Air consumption per double stroke	[cm ³]	5.0	5.0	5.0	5.0	5.0	5.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.02	0.02	0.01	0.01	0.01	0.01
Opening time	[s]	0.02	0.02	0.02	0.02	0.01	0.01
Closing / opening time with spring on	y [s]			0.05	0.05	0.05	0.05
Max. permitted finger length	[mm]	50.0	50.0	50.0	50.0	50.0	50.0
Max. permitted weight per finger	[kg]	0.12	0.12	0.12	0.12	0.12	0.12
IP class		40	40	40	40	40	40
Min. ambient temperature	[°C]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. ambient temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01	0.01	0.01



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

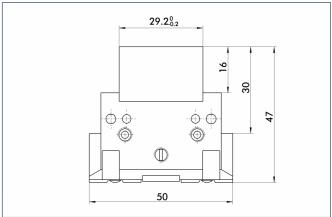
Hose-free direct connection



- 3 Adapter
- 4 Grippe

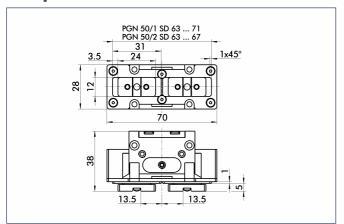
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



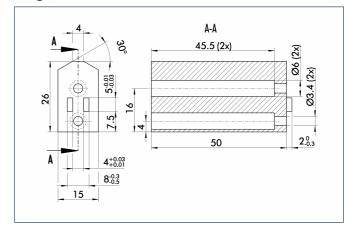


Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

Finger blanks

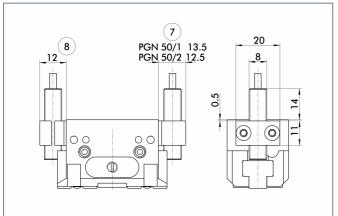


 Designation
 Material
 Scope of delivery
 ID

 ABR 50
 Aluminum
 1
 0300714

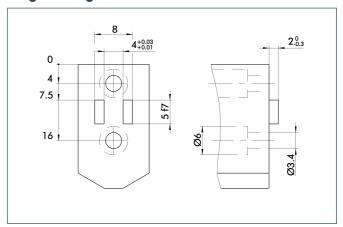
 SBR 50
 16 MnCr 5
 1
 0300715

Inductive proximity switches



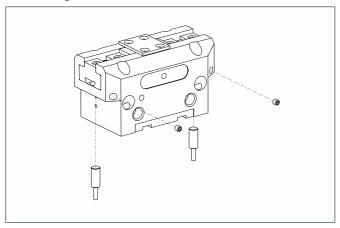
- (7) Monitoring Gripper open
- 8 Monitoring Gripper closed
- (i) To be considered when using proximity switch IN 80 instead of IN 40

 The proximity switches can also be mounted using the brackets supplied but without using the eccentric sleeves. Please bear in mind that when using IN 80 instead of IN 40 sensors, the switch position is not adjustable.



Suggestion for connection dimensions — Gripper fingers

Sensor systems



End position monitoring:

Inductive proximity switches, for direct mounting

Designation	, , ,	Recommended product
IN 40/0-M12	0301584	
IN 40/0-M8	0301484	•
IN 40/S-M12	0301574	
IN 40/S-M8	0301474	•
IN 80/0-M12	0301588	
IN 80/0-M8	0301488	
IN 80/S-M12	0301578	
IN 80/S-M8	0301478	
INK 40/0	0301556	
INK 40/S	0301555	
INK 80/0	0301551	
INK 80/S	0301550	

1 Two sensors are required per gripper; an NO contact (/S) and an NC contact (/O), as well as an optional extension cable.

Extension cables for proximity switches/magnetic switches

Designation	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

(i) For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

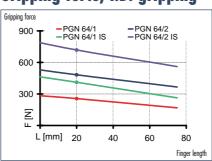
(i) To be considered when using proximity switch IN 80 instead of IN 40 The proximity switches can also be mounted using the brackets supplied but without using the eccentric sleeves. Please bear in mind that when using IN 80 instead of IN 40 sensors, the switch position is not adjustable.



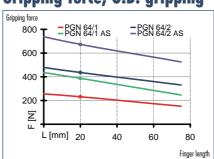




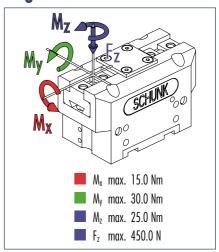
Gripping force, I.D. gripping



Gripping force, O.D. gripping

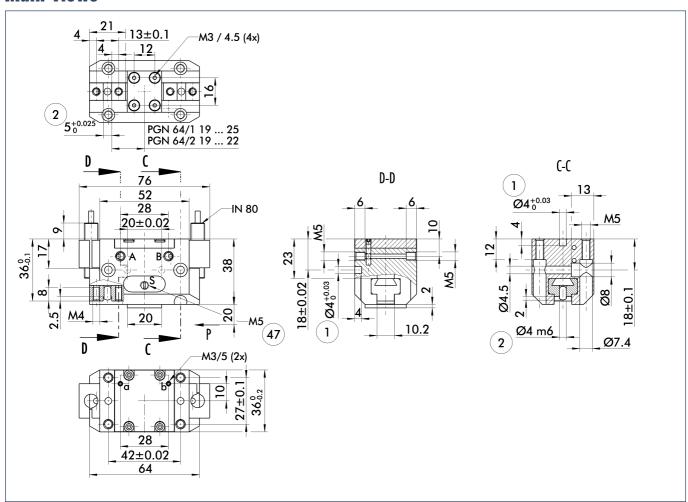


Finger load



Moments and forces apply per base jaw and may occur simultaneously. M_V may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

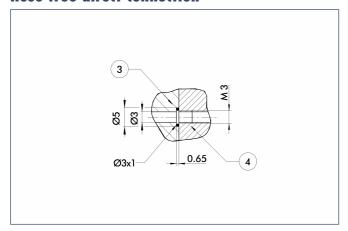
Designation		PGN 64-1	PGN 64-2	PGN 64-1 AS	PGN 64-2 AS	PGN 64-1 IS	PGN 64-2 IS
	ID	0370100	0370150	0370400	0370450	0370460	0370470
Stroke per finger	[mm]	6.0	3.0	6.0	3.0	6.0	3.0
Closing force	[N]	220.0	420.0	370.0	740.0		
Opening force	[N]	255.0	480.0			370.0	740.0
Min. gripping force by spring	[N]			70.0	140.0	70.0	140.0
Weight	[kg]	0.27	0.27	0.35	0.35	0.35	0.35
Recommended workpiece weight	[kg]	1.1	2.1	1.1	2.1	1.1	2.1
Air consumption per double stroke	[cm³]	10.0	10.0	10.0	10.0	10.0	10.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.02	0.02	0.01	0.01	0.02	0.02
Opening time	[s]	0.02	0.02	0.02	0.02	0.01	0.01
Closing / opening time with spring on	ly [s]			0.05	0.05	0.05	0.05
Max. permitted finger length	[mm]	64.0	64.0	64.0	64.0	64.0	64.0
Max. permitted weight per finger	[kg]	0.3	0.3	0.3	0.3	0.3	0.3
IP class		40	40	40	40	40	40
Min. ambient temperature	[°C]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. ambient temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01	0.01	0.01



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

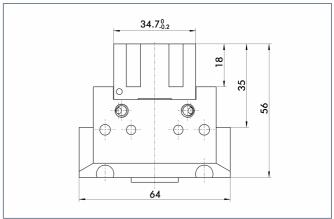
Hose-free direct connection



- 3 Adapter
- 4 Grippe

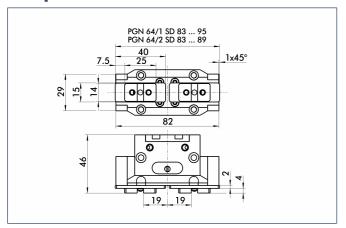
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



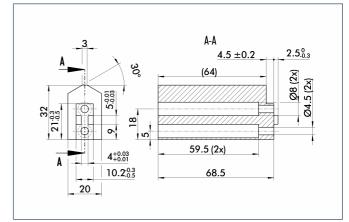


Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

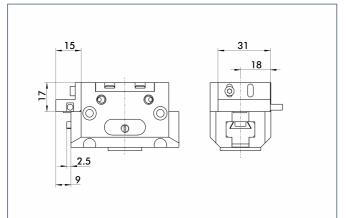
Finger blanks



Finger blanks for customer-specific reworking, incl. screw connection diagram

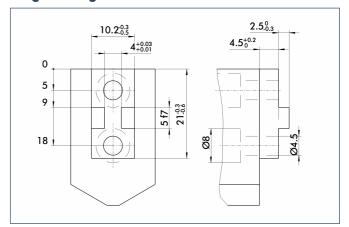
Designation	Material	Scope of delivery	ID
ABR 64	Aluminum	1	0300725
SBR 64	16 MnCr 5	1	0300734

Mounting kit for FPS

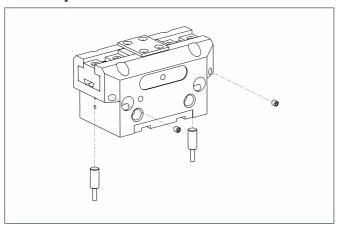


The flexible position sensor FPS can distinguish between five freely programmable areas or switching points for the stroke of a gripper and can be used in conjunction with a PC as a measuring system.

Designation	ID	
AS-PGN 64-100/ HGN 80-100	0301710	



Suggestion for connection dimensions — Gripper fingers

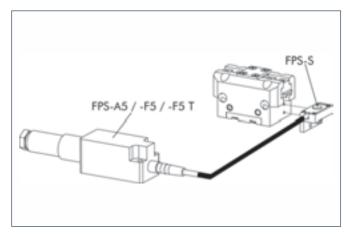


End position monitoring:

Inductive proximity switches, for direct mounting

Designation	ID	Recommended product
IN 80/S-M12	0301578	
IN 80/S-M8	0301478	•
IN-B 80/S-M8	0301477	
INK 80/S	0301550	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN 64-100/ HGN 80-100	0301710	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

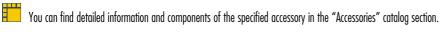
When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/F5 T or A5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

Extension cables for proximity switches/magnetic switches

Designation	IV	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

(i) For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

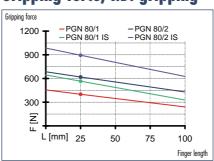




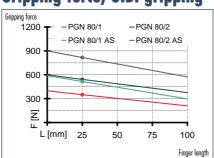




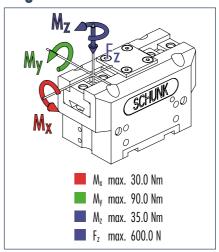
Gripping force, I.D. gripping



Gripping force, O.D. gripping

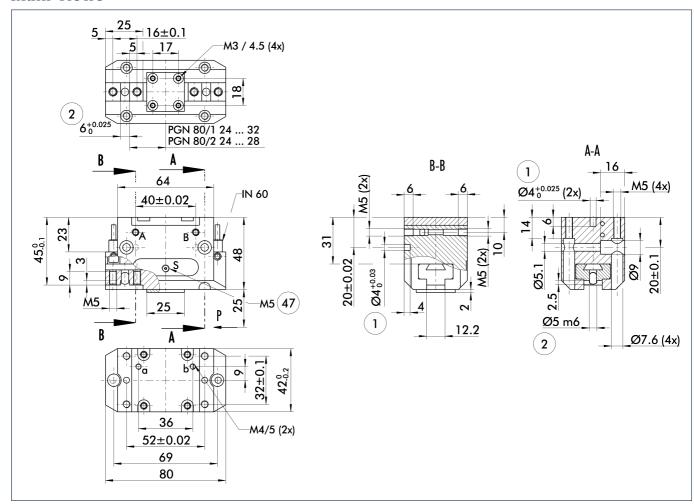


Finger load



Moments and forces apply per base jaw and may occur simultaneously. M_V may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

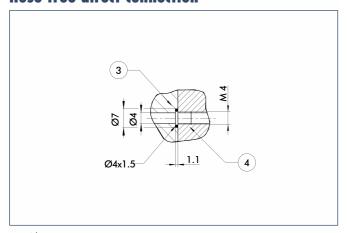
Designation		PGN 80-1	PGN 80-2	PGN 80-1 AS	PGN 80-2 AS	PGN 80-1 IS	PGN 80-2 IS
	ID	0370101	0370151	0370401	0370451	0370461	0370471
Stroke per finger	[mm]	8.0	4.0	8.0	4.0	8.0	4.0
Closing force	[N]	360.0	540.0	540.0	900.0		
Opening force	[N]	400.0	620.0			520.0	860.0
Min. gripping force by spring	[N]			120.0	180.0	120.0	180.0
Weight	[kg]	0.43	0.43	0.68	0.68	0.68	0.68
Recommended workpiece weight	[kg]	1.8	2.7	1.8	2.7	1.8	2.7
Air consumption per double stroke	[cm ³]	20.0	20.0	20.0	20.0	20.0	20.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.03	0.03	0.02	0.02	0.03	0.03
Opening time	[s]	0.03	0.03	0.03	0.03	0.02	0.02
Closing / opening time with spring on	y [s]			0.03	0.03	0.03	0.03
Max. permitted finger length	[mm]	80.0	80.0	80.0	80.0	80.0	80.0
Max. permitted weight per finger	[kg]	0.5	0.5	0.5	0.5	0.5	0.5
IP class		40	40	40	40	40	40
Min. ambient temperature	[°C]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. ambient temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01	0.01	0.01



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
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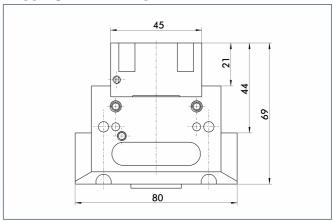
Hose-free direct connection



- 3 Adapter
- 4 Grippe

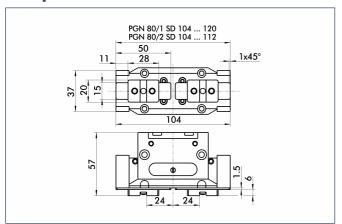
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



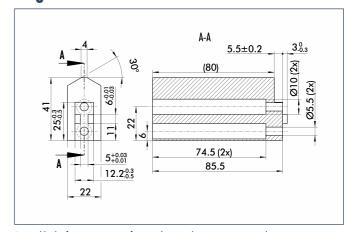


Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

Finger blanks



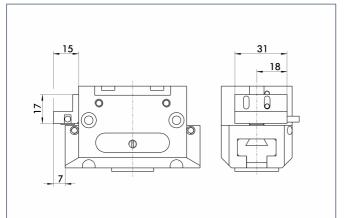
 Finger blanks for customer-specific reworking, incl. screw connection diagram

 Designation
 Housing material
 Scope of delivery
 ID

 ABR 80
 Aluminum
 1
 0300726

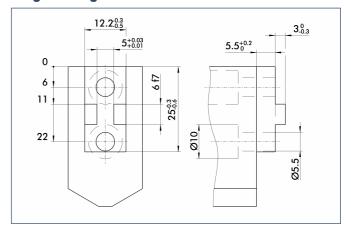
 SBR 80
 16 MnCr 5
 1
 0300735

Mounting kit for FPS

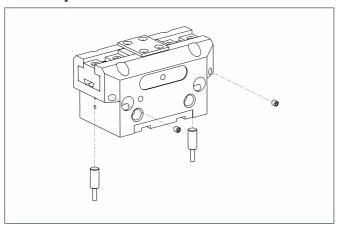


The flexible position sensor FPS can distinguish between five freely programmable areas or switching points for the stroke of a gripper and can be used in conjunction with a PC as a measuring system.

Designation	ID	
AS-PGN 64-100/ HGN 80-100	0301710	



Suggestion for connection dimensions — Gripper fingers

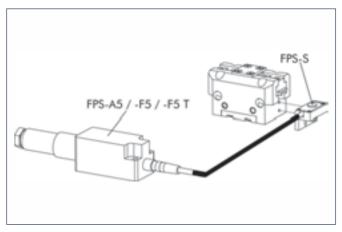


End position monitoring:

Inductive proximity switches, for direct mounting

Designation	ID	Recommended product
IN 60/S-M12	0301585	
IN 60/S-M8	0301485	•
INK 60/S	0301553	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN 64-100/ HGN 80-100	0301710	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/ F5 T or A5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

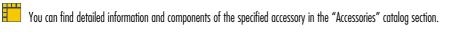
Extension cables for proximity switches/magnetic switches

Designation	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

(i) For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.



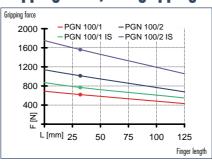




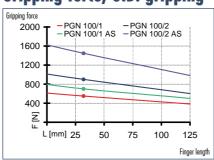




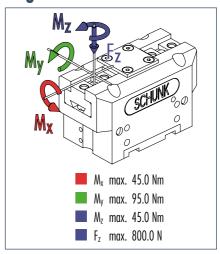
Gripping force, I.D. gripping



Gripping force, O.D. gripping

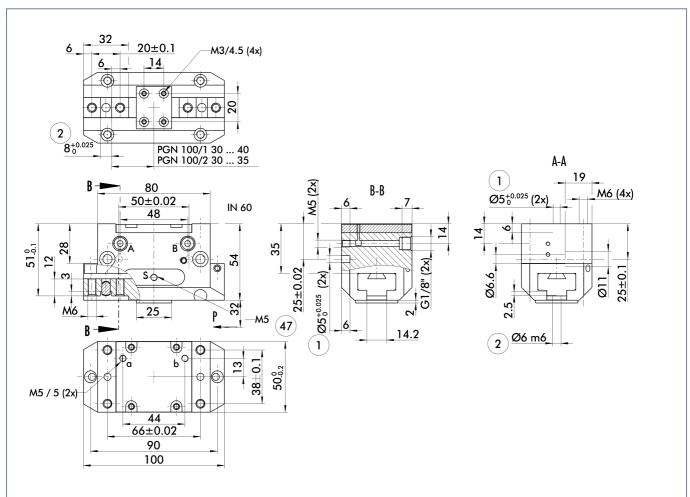


Finger load



1 Moments and forces apply per base jaw and may occur simultaneously. M_{V} may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced

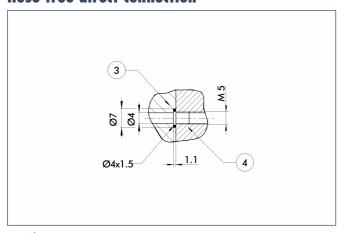
Designation		PGN 100-1	PGN 100-2	PGN 100-1 AS	PGN 100-2 AS	PGN 100-1 IS	PGN 100-2 IS
	ID	0370102	0370152	0370402	0370452	0370462	0370472
Stroke per finger	[mm]	10.0	5.0	10.0	5.0	10.0	5.0
Closing force	[N]	550.0	900.0	700.0	1530.0		
Opening force	[N]	620.0	1010.0			700.0	1530.0
Min. gripping force by spring	[N]			180.0	300.0	180.0	300.0
Weight	[kg]	0.75	0.75	0.96	0.96	0.96	0.96
Recommended workpiece weight	[kg]	2.75	4.5	2.75	4.5	2.75	4.5
Air consumption per double stroke	[cm³]	40.0	40.0	40.0	40.0	40.0	40.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.05	0.05	0.03	0.03	0.05	0.05
Opening time	[s]	0.05	0.05	0.05	0.05	0.03	0.03
Closing / opening time with spring on	ly [s]			0.05	0.05	0.05	0.05
Max. permitted finger length	[mm]	100.0	100.0	100.0	100.0	100.0	100.0
Max. permitted weight per finger	[kg]	0.95	0.95	0.95	0.95	0.95	0.95
IP class		40	40	40	40	40	40
Min. ambient temperature	[° (]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. ambient temperature	[° (]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01	0.01	0.01



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

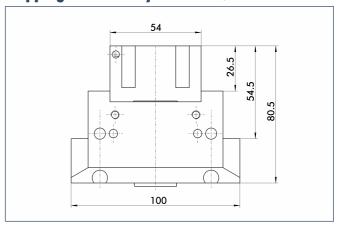
Hose-free direct connection



- 3 Adapter
- 4 Grippe

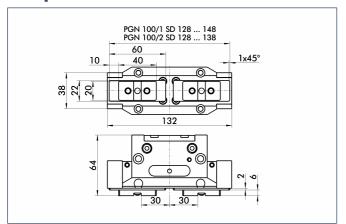
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



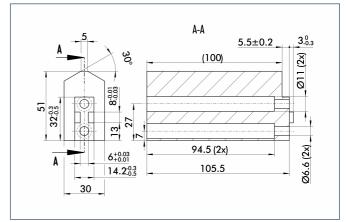


Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

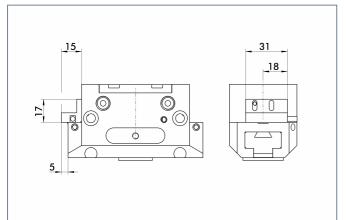
Finger blanks



Finger blanks for customer-specific reworking, incl. screw connection diagram

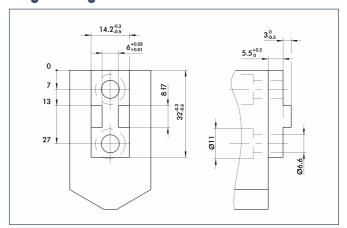
Designation	Housing material	Scope of delivery	ID
ABR 100	Aluminum	1	0300727
SBR 100	16 MnCr 5	1	0300736

Mounting kit for FPS

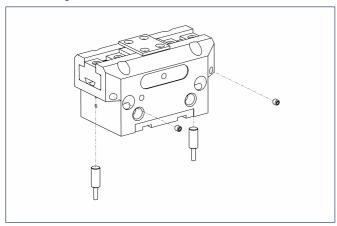


The flexible position sensor FPS can distinguish between five freely programmable areas or switching points for the stroke of a gripper and can be used in conjunction with a PC as a measuring system.

Designation		ID	
AS-PGN 64-100/	'HGN 80-100	0301710	



Suggestion for connection dimensions — Gripper fingers

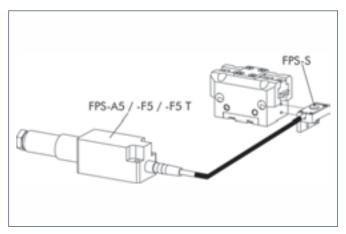


End position monitoring:

Inductive proximity switches, for direct mounting

Designation	ID	Recommended product
IN 60/S-M12	0301585	
IN 60/S-M8	0301485	•
INK 60/S	0301553	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN 64-100/ HGN 80-100	0301710	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/F5 T or A5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

Extension cables for proximity switches/magnetic switches

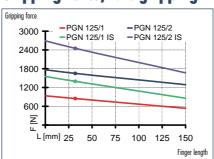
Designation	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

(i) For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

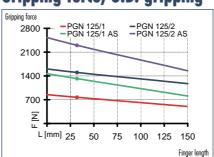




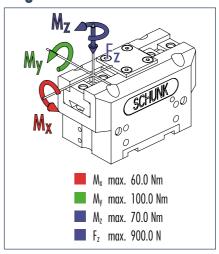
Gripping force, I.D. gripping



Gripping force, O.D. gripping

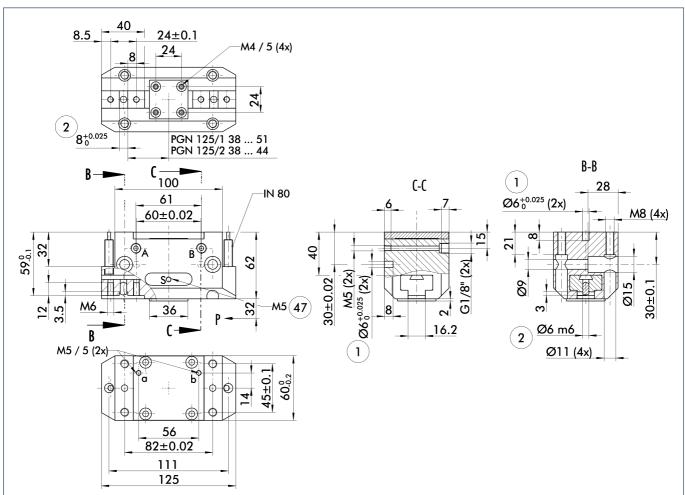


Finger load



1 Moments and forces apply per base jaw and may occur simultaneously. M_{V} may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced

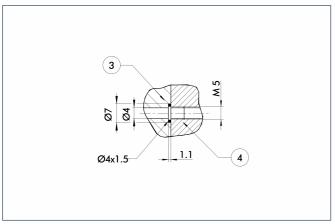
Designation		PGN 125-1	PGN 125-2	PGN 125-1 AS	PGN 125-2 AS	PGN 125-1 IS	PGN 125-2 IS
	ID	0370103	0370153	0370403	0370453	0370463	0370473
Stroke per finger	[mm]	13.0	6.0	13.0	6.0	13.0	6.0
Closing force	[N]	800.0	1500.0	1350.0	2300.0		
Opening force	[N]	845.0	1650.0			1350.0	2310.0
Min. gripping force by spring	[N]			270.0	500.0	270.0	500.0
Weight	[kg]	1.3	1.3	1.65	1.65	1.65	1.65
Recommended workpiece weight	[kg]	4.0	7.5	4.0	7.5	4.0	7.5
Air consumption per double stroke	[cm ³]	70.0	70.0	70.0	70.0	70.0	70.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.08	0.08	0.07	0.07	0.1	0.1
Opening time	[s]	0.08	0.08	0.1	0.1	0.07	0.07
Closing / opening time with spring o	nly [s]			0.14	0.14	0.14	0.14
Max. permitted finger length	[mm]	125.0	125.0	125.0	125.0	125.0	125.0
Max. permitted weight per finger	[kg]	1.75	1.75	1.75	1.75	1.75	1.75
IP class		40	40	40	40	40	40
Min. ambient temperature	[° (]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. ambient temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.02	0.02	0.02	0.02	0.02	0.02



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

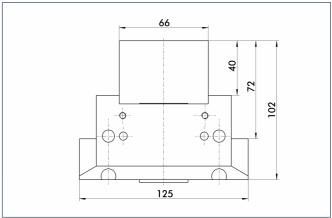
Hose-free direct connection



- 3 Adapter
- 4 Grippe

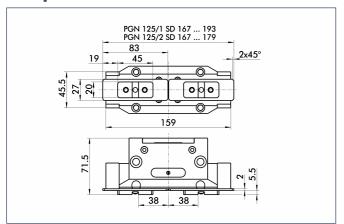
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



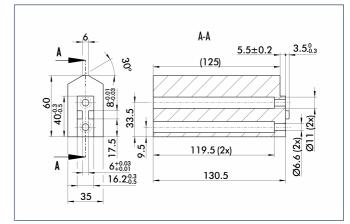


Dust protected version



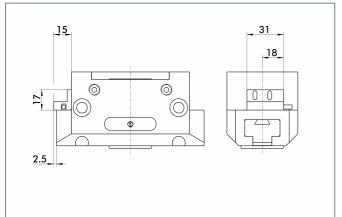
The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

Finger blanks



Finger blanks for customer-specific reworking, incl. screw connection diagram Designation Housing material Scope of delivery ID ABR 125 Aluminum 0300728 SBR 125 16 MnCr 5 0300737

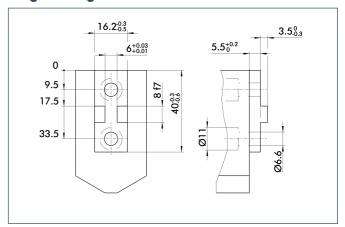
Mounting kit for FPS



The flexible position sensor FPS can distinguish between five freely programmable areas or switching points for the stroke of a gripper and can be used in conjunction with a PC as a measuring system.

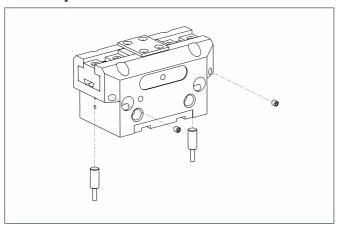
Designation	ID	
AS-PGN/HGN 125-160	0301711	

You can find detailed information and components of the specified accessory in the "Accessories" catalog section.



Suggestion for connection dimensions — Gripper fingers



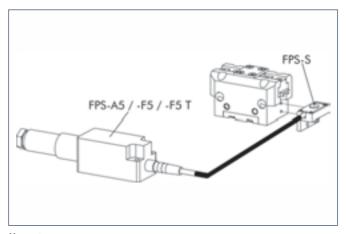


End position monitoring:

Inductive proximity switches, for direct mounting

Designation	ID	Recommended product
IN 80/S-M12	0301578	
IN 80/S-M8	0301478	•
INK 80/S	0301550	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN/HGN 125-160	0301711	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

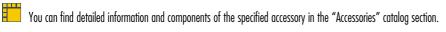
When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/ F5 T or A5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

Extension cables for proximity switches/magnetic switches

Designation	עו	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

(i) For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

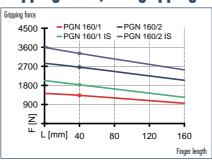




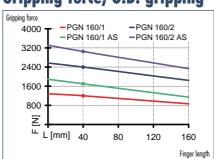




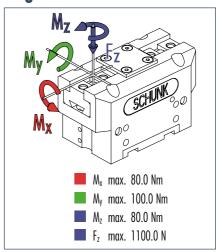
Gripping force, I.D. gripping



Gripping force, O.D. gripping

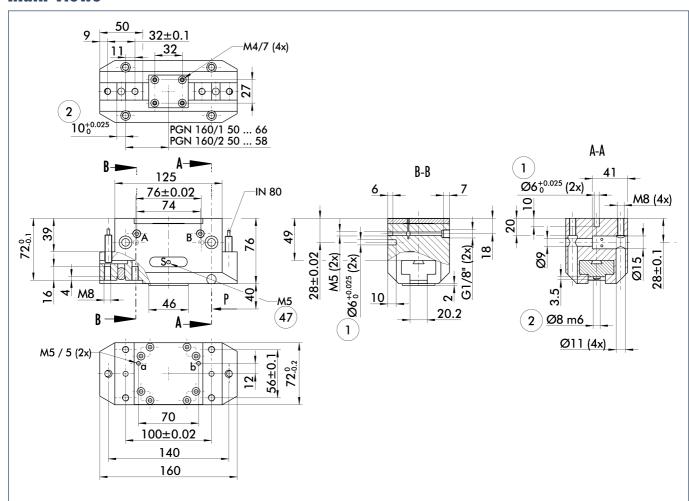


Finger load



Moments and forces apply per base jaw and may occur simultaneously. My may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

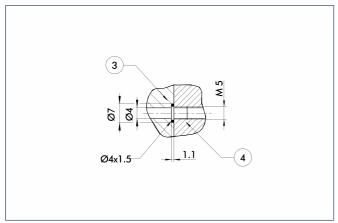
Designation		PGN 160-1	PGN 160-2	PGN 160-1 AS	PGN 160-2 AS	PGN 160-1 IS	PGN 160-2 IS
	ID	0370104	0370154	0370404	0370454	0370464	0370474
Stroke per finger	[mm]	16.0	8.0	16.0	8.0	16.0	8.0
Closing force	[N]	1200.0	2400.0	1700.0	3050.0		
Opening force	[N]	1330.0	2660.0			1720.0	3090.0
Min. gripping force by spring	[N]			400.0	800.0	400.0	800.0
Weight	[kg]	2.4	2.4	3.5	3.5	3.5	3.5
Recommended workpiece weight	[kg]	6.0	12.0	6.0	12.0	6.0	12.0
Air consumption per double stroke	[cm³]	140.0	140.0	140.0	140.0	140.0	140.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.1	0.1	0.12	0.12	0.3	0.3
Opening time	[s]	0.1	0.1	0.3	0.3	0.12	0.12
Closing / opening time with spring on	ly [s]			0.19	0.19	0.19	0.19
Max. permitted finger length	[mm]	160.0	160.0	160.0	160.0	160.0	160.0
Max. permitted weight per finger	[kg]	3.0	3.0	3.0	3.0	3.0	3.0
IP class		40	40	40	40	40	40
Min. operating temperature	[°(]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. operating temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.02	0.02	0.02	0.02	0.02	0.02



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

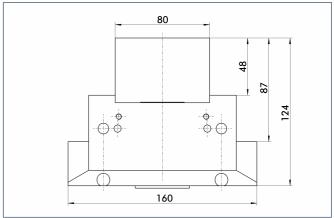
Hose-free direct connection



- 3 Adapter
- 4 Grippe

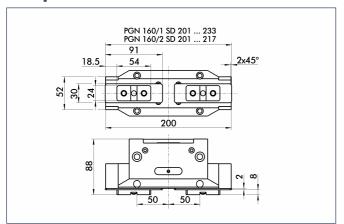
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



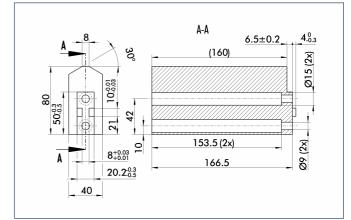


Dust protected version



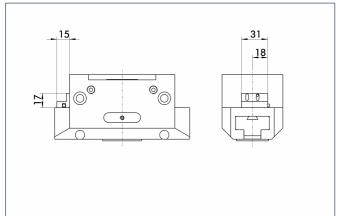
The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

Finger blanks



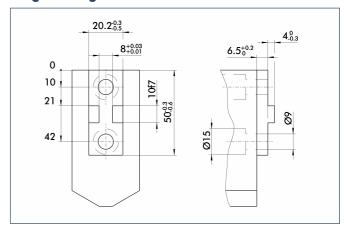
Finger blanks for customer-specific reworking, incl. screw connection diagramDesignationHousing materialScope of deliveryIDABR 160Aluminum10300729SBR 16016 MnCr 510300738

Mounting kit for FPS

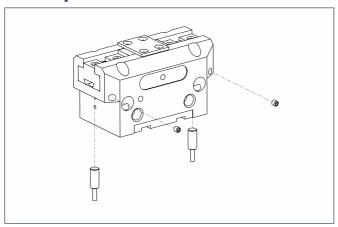


The flexible position sensor FPS can distinguish between five freely programmable areas or switching points for the stroke of a gripper and can be used in conjunction with a PC as a measuring system.

Designation	ID	
AS-PGN/HGN 125-160	0301711	



Suggestion for connection dimensions — Gripper fingers

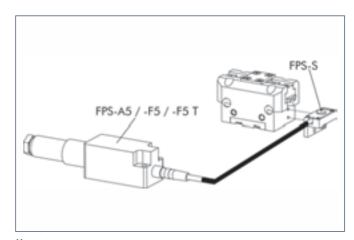


End position monitoring:

Inductive proximity switches, for direct mounting

Designation	. ID	Recommended product
IN 80/S-M12	0301578	
IN 80/S-M8	0301478	•
IN-B 80/S-M8	0301477	
INK 80/S	0301550	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN/HGN 125-160	0301711	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

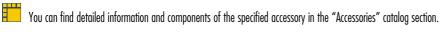
When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/ F5 T or A5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

Extension cables for proximity switches/magnetic switches

Designation	IV	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

(i) For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

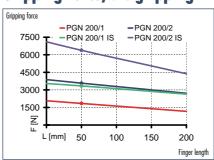




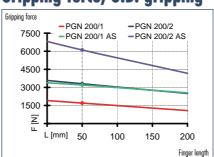




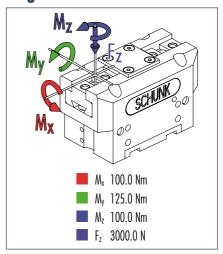
Gripping force, I.D. gripping



Gripping force, O.D. gripping

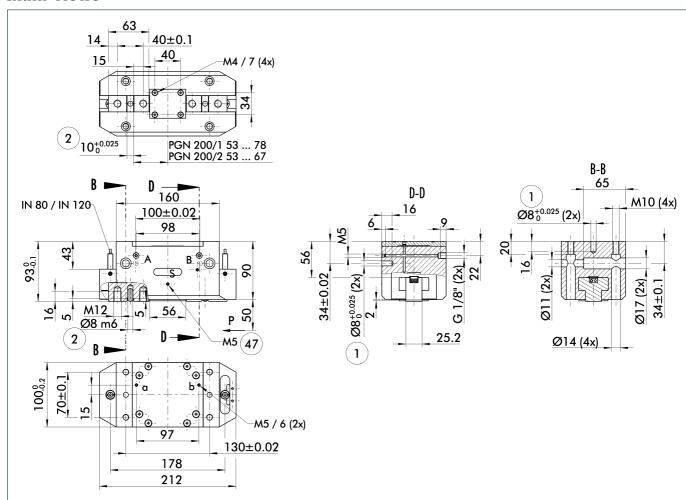


Finger load



Moments and forces apply per base jaw and may occur simultaneously. M_V may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

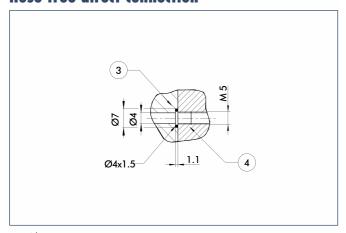
Designation		PGN 200-1	PGN 200-2	PGN 200-1 AS	PGN 200-2 AS	PGN 200-1 IS	PGN 200-2 IS
	ID	0370105	0370155	0370405	0370455	0370465	0370475
Stroke per finger	[mm]	25.0	14.0	25.0	14.0	25.0	14.0
Closing force	[N]	1700.0	3300.0	3200.0	6100.0		
Opening force	[N]	1840.0	3570.0			3170.0	6050.0
Min. gripping force by spring	[N]			570.0	1100.0	570.0	1100.0
Weight	[kg]	5.1	5.1	6.0	6.0	6.0	6.0
Recommended workpiece weight	[kg]	8.5	16.5	8.5	16.5	8.5	16.5
Air consumption per double stroke	[cm³]	306.0	306.0	306.0	306.0	306.0	306.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.3	0.3	0.3	0.3	0.7	0.7
Opening time	[s]	0.3	0.3	0.7	0.7	0.3	0.3
Closing / opening time with spring on	ly [s]			0.5	0.5	0.5	0.5
Max. permitted finger length	[mm]	200.0	200.0	200.0	200.0	200.0	200.0
Max. permitted weight per finger	[kg]	5.5	5.5	5.5	5.5	5.5	5.5
IP class		40	40	40	40	40	40
Min. operating temperature	[° (]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. operating temperature	[° (]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.02	0.02	0.02	0.02	0.02	0.02



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

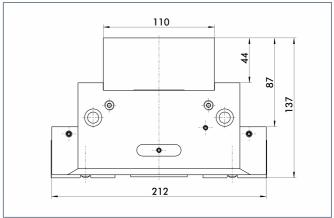
Hose-free direct connection



- 3 Adapter
- 4 Grippe

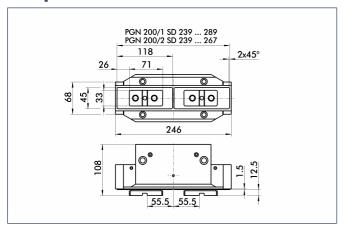
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



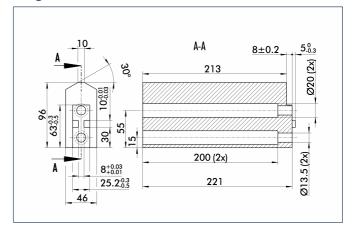


Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

Finger blanks



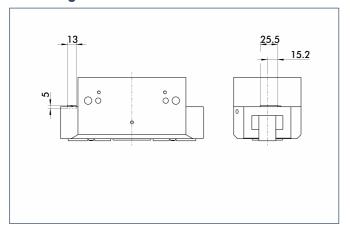
 Finger blanks for customer-specific reworking, incl. screw connection diagram

 Designation
 Housing material
 Scope of delivery
 ID

 ABR 200
 Aluminum
 1
 0300751

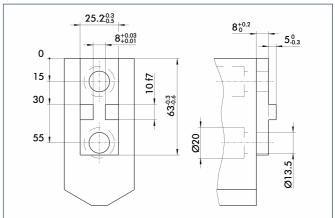
 SBR 200
 16 MnCr 5
 1
 0300739

Mounting kit for FPS



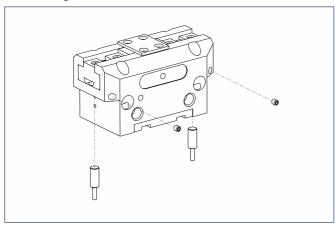
The flexible position sensor FPS can distinguish between five freely programmable areas or switching points for the stroke of a gripper and can be used in conjunction with a PC as a measuring system.

Designation	ID	
AS-PGN 200-1	0301730	
AS-PGN 200-2	0301732	



Suggestion for connection dimensions — Gripper fingers



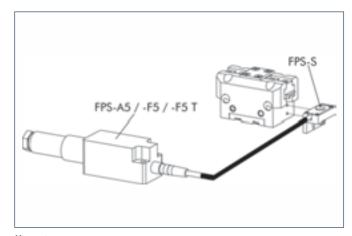


End position monitoring:

Inductive proximity switches, for direct mounting

· ID	Recommended product
0301592	
0301578	
0301478	•
0301477	
0301562	
0301550	
	0301592 0301578 0301478 0301477 0301562

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN 200-1	0301730	
AS-PGN 200-2	0301732	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

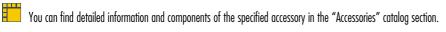
When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/F5 T or A5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

Extension cables for proximity switches/magnetic switches

Designation	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

① For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

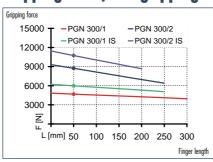




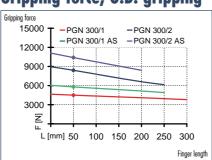




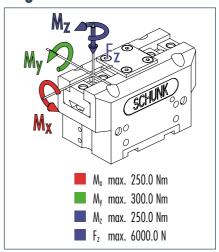
Gripping force, I.D. gripping



Gripping force, O.D. gripping

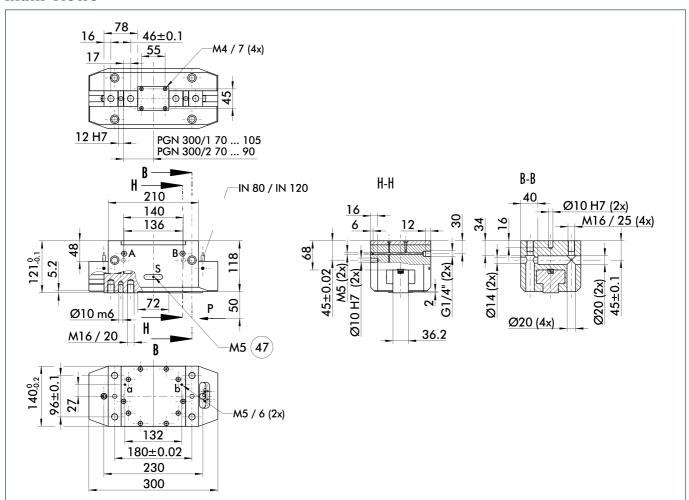


Finger load



Moments and forces apply per base jaw and may occur simultaneously. My may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

Designation		PGN 300-1	PGN 300-2	PGN 300-1 AS	PGN 300-2 AS	PGN 300-1 IS	PGN 300-2 IS
	ID	0370106	0370156	0370406	0370456	0370466	0370476
Stroke per finger	[mm]	35.0	20.0	35.0	20.0	35.0	20.0
Closing force	[N]	4500.0	8400.0	5800.0	10400.0		
Opening force	[N]	4680.0	8730.0			5800.0	10400.0
Min. gripping force by spring	[N]			1500.0	2800.0	1500.0	2800.0
Weight	[kg]	13.4	13.4	15.5	15.5	15.5	15.5
Recommended workpiece weight	[kg]	22.5	42.0	22.5	42.0	22.5	42.0
Air consumption per double stroke	[cm ³]	885.0	885.0	885.0	885.0	885.0	885.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.7	0.7	0.6	0.6	1.2	1.2
Opening time	[s]	0.7	0.7	1.2	1.2	0.6	0.6
Closing / opening time with spring on	ly [s]			1.3	1.3	1.3	1.3
Max. permitted finger length	[mm]	300.0	250.0	250.0	200.0	250.0	200.0
Max. permitted weight per finger	[kg]	9.0	9.0	9.0	9.0	9.0	9.0
IP class		40	40	40	40	40	40
Min. operating temperature	[°C]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. operating temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.02	0.02	0.02	0.02	0.02	0.02

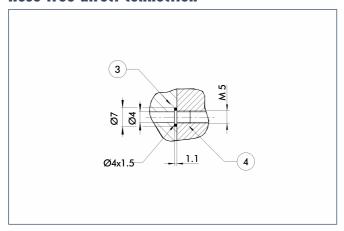


The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

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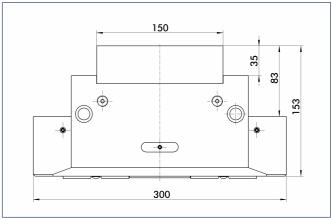
Hose-free direct connection



- 3 Adapter
- 4 Grippe

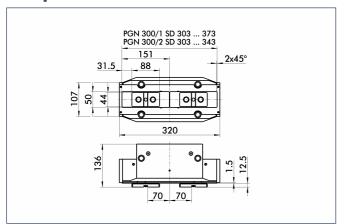
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS



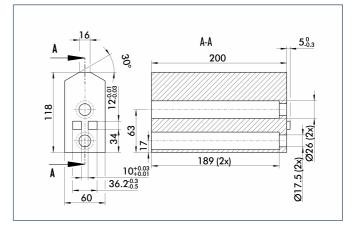


Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.

Finger blanks

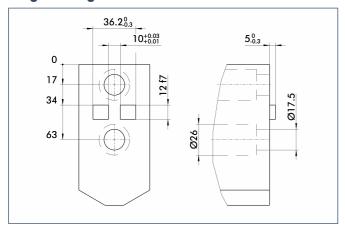


 Finger blanks for customer-specific reworking, incl. screw connection diagram

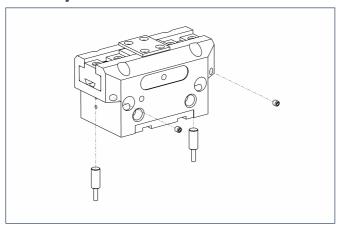
 Designation
 Housing material
 Scope of delivery
 ID

 ABR 300
 Aluminum
 1
 0300752

 SBR 300
 16 MnCr 5
 1
 0300753



Suggestion for connection dimensions — Gripper fingers

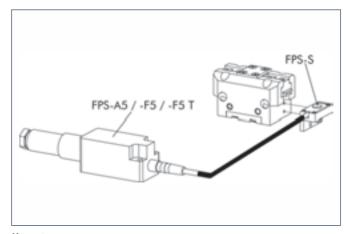


End position monitoring:

Inductive proximity switches, for direct mounting

Designation ,	. ID	Recommended product
IN 120/S-M12	0301592	
IN 80/S-M12	0301578	
IN 80/S-M8	0301478	•
IN-B 80/S-M8	0301477	
INK 120/S	0301562	
INK 80/S	0301550	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.



Measuring system:

Position monitoring FPS

Designation	ID	
AS-PGN 300-2	0301734	
FPS-A5	0301802	
FPS-F5	0301805	
FPS-F5 T	0301807	
FPS-S 13	0301705	

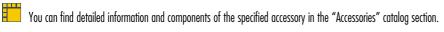
When using an FPS system, an FPS sensor (FPS-S) and an electronic processor (FPS-F5/F5 T or A 5) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are available as optional extras in the "Accessories" catalog section.

Extension cables for proximity switches/magnetic switches

Designation	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

① For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

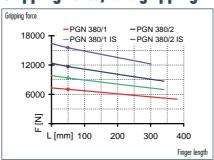




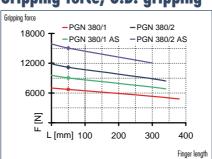




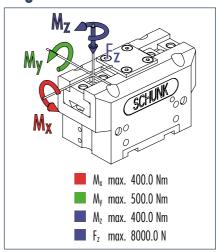
Gripping force, I.D. gripping



Gripping force, O.D. gripping

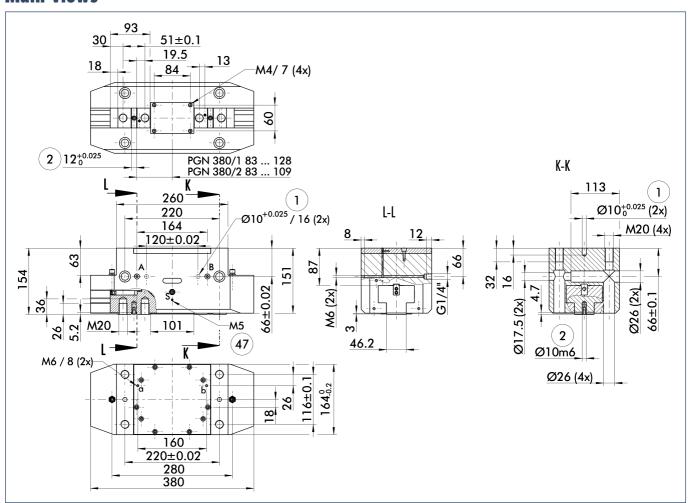


Finger load



Moments and forces apply per base jaw and may occur simultaneously. My may arise in addition to the moment generated by the gripping force itself. If the max. permitted finger weight is exceeded, it is imperative to throttle the air pressure so that the jaw movement occurs without any hitting or bouncing. The tool life may be reduced.

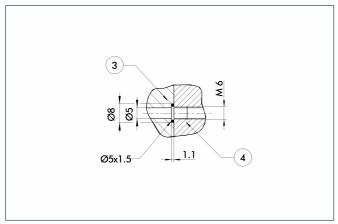
Designation		PGN 380-1	PGN 380-2	PGN 380-1 AS	PGN 380-2 AS	PGN 380-1 IS	PGN 380-2 IS
	ID	0370107	0370157	0370407	0370457	0370467	0370477
Stroke per finger	[mm]	45.0	26.0	45.0	26.0	45.0	26.0
Closing force	[N]	6700.0	11200.0	9000.0	15100.0		
Opening force	[N]	7033.0	11680.0			9000.0	15100.0
Min. gripping force by spring	[N]			2300.0	3900.0	2300.0	3900.0
Weight	[kg]	25.0	25.0	28.0	28.0	28.0	28.0
Recommended workpiece weight	[kg]	33.5	56.0	45.0	75.0	45.0	75.0
Air consumption per double stroke	[cm³]	1700.0	1700.0	1700.0	1700.0	1700.0	1700.0
Nominal pressure	[bar]	6.0	6.0	6.0	6.0	6.0	6.0
Minimum pressure	[bar]	2.0	2.0	4.0	4.0	4.0	4.0
Maximum pressure	[bar]	8.0	8.0	6.5	6.5	6.5	6.5
Closing time	[s]	0.8	0.8	0.6	0.6	1.0	1.0
Opening time	[s]	0.8	0.8	1.0	1.0	0.6	0.6
Closing / opening time with spring on	ly [s]			1.3	1.3	1.3	1.3
Max. permitted finger length	[mm]	380.0	340.0	340.0	300.0	340.0	300.0
Max. permitted weight per finger	[kg]	15.0	15.0	15.0	15.0	15.0	15.0
IP class		40	40	40	40	40	40
Min. operating temperature	[° (]	-10.0	-10.0	-10.0	-10.0	-10.0	-10.0
Max. operating temperature	[°C]	90.0	90.0	90.0	90.0	90.0	90.0
Repeat accuracy	[mm]	0.05	0.05	0.05	0.05	0.05	0.05



The illustration shows the gripper in the basic version with closed jaws, without taking into account the measurements of the optional extras described below.

- (i) As an alternative to or in addition to the spring-mounted, mechanical gripping force safety device, the pressure maintenance valve SDV-P can also be used for I.D. or O.D. gripping (see the "Accessories" catalog section).
- A,a Main connection, direct connection Open gripper
- B,b Main connection, direct connection Close gripper
- S,s Air purge connection or vent hole
- 1) Gripper connection
- (2) Finger connection
- (47) On both sides

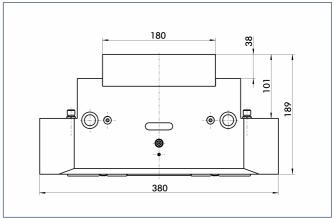
Hose-free direct connection



- 3 Adapter
- 4 Grippe

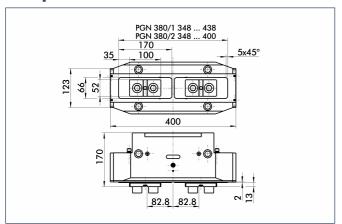
The direct connection supplies pressure to the gripper without a failure-prone hose system. Instead, the pressure medium is guided through holes in the mounting plate.

Gripping force safety device AS/IS

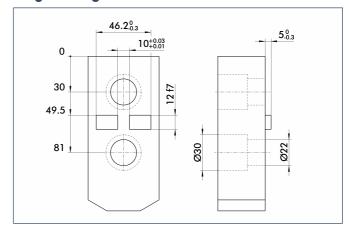




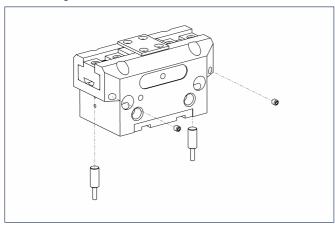
Dust protected version



The "Dust-proof" option increases the degree of protection against penetrating substances. The screw connection diagram moves by the height of the intermediate jaw. The finger length must still be measured from the upper edge of the gripper housing.



Suggestion for connection dimensions — Gripper fingers



End position monitoring:

Inductive proximity switches, for direct mounting

Designation	ID	Recommended product
IN 80/S-M12	0301578	
IN 80/S-M8	0301478	•
INK 80/S	0301550	

(1) Two sensors (NO contacts/S) are required per gripper as well as an optional extension cable.

Extension cables for proximity switches/magnetic switches

Designation	ID	
GK 3-M8	0301622	
KV 10-M12	0301596	
KV 10-M8	0301496	
KV 20-M12	0301597	
KV 20-M8	0301497	
KV 3-M12	0301595	
KV 3-M8	0301495	
W 3-M12	0301503	
W 5-M12	0301507	
WK 3-M8	0301594	
WK 5-M8	0301502	

① For the sensor cables, observe the minimum permitted bending radii. Generally, these are 35 mm.

