

Superior Clamping and Gripping



Product Information

Gripper for small components MPZ

Precise. Compact. Reliable. Gripper for small components MPZ

Small 3-finger centric gripper with base jaws guided on T-slots

Field of application

for universal use in clean to slightly dirty working environments, especially suitable for gripping small workpieces

Advantages – Your benefits

T-slot guidance for precise gripping at high moment loads

Finger position monitoring also possible via FPS

Air supply via hose-free direct connection or screw connections for flexible pressure supply in all automated systems

Compact dimensions for minimal interfering contours in handling













Functional description

The piston is moved up and down by compressed air. The angled active surfaces of the wedge-hook produce a synchronized, centric jaw movement.



- ① **T-slot guidance** for precise gripping with high moment loads
- ② Wedge-hook design for high force transmission and centric gripping
- 3 Housing is weight-optimized due to the use of high-strength aluminum alloy
- Orive pneumatic, efficient, and easy to handle

General notes about the series

Operating principle: Wedge-hook kinematics **Housing material:** Aluminum alloy, anodized

Base jaw material: Steel

Actuation: pneumatic, with filtered compressed air as per ISO 8573-1:2010 [7:4:4].

Warranty: 24 months

Scope of delivery: Centering sleeves, centering pins, 0-rings for direct connection, assembly instructions (operating manual with declaration of incorporation is available online)

Gripping force maintenance device: possible by using the version with mechanical gripping force maintenance or pressure maintenance valve SDV-P

Gripping force: is the arithmetic sum of the individual force applied to each jaw at distance P (see illustration).

Finger length: is measured from the reference surface as the distance P in direction to the main axis. The maximum permissible finger length applies until the nominal operating pressure is achieved. With higher

nominal operating pressure is achieved. With higher pressures, the finger length must be reduced proportionally to the nominal operating pressure.

Repeat accuracy: is defined as a distribution of the end Position for 100 consecutive strokes.

Workpiece weight: is calculated for force-fit gripping with a coefficient of static friction of 0.1 and a safety factor of 2 against workpiece slippage at acceleration due to gravity g. For form-fit or capture gripping, there are significantly higher permissible workpiece weights.

Closing and opening times: are purely the times that the base jaws or fingers are in motion. Valve switching times, hose fill times, or PLC reaction times are not included, and are to be considered when cycle times are calculated.



Application example

Pneumatically driven 2-axis line gantry with centric gripper for gripping and repositioning small round workpieces.

- 3-finger centric gripper MPZ
- 2 Linear module LM

3 Pillar assembly system SAS

SCHUNK offers more ...

The following components make the product even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.









Linear module



Pick & Place Unit



Quick change system



Flexible position sensor



Micro valve



Pressure maintenance valve



Finger blank



Magnetic switches

① For more information on these products can be found on the following product pages or at schunk.com.

Options and special information

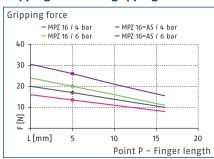
Gripping force maintenance version AS/IS: The mechanical gripping force maintenance version ensures minimum gripping force even in the event of a pressure drop. In the AS/S version this acts as a closing force, in the IS version as an opening force.

Version FPS for flexible position sensor: This version is prepared for the use with the flexible position sensor FPS, and allows monitoring of several gripping positions.

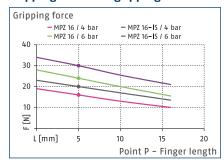
NEW: H1 grease version H1G: with H1 compliant lubrication as a solution for easy entry into medical technology, lab automation, the pharmaceutical industry and food industry



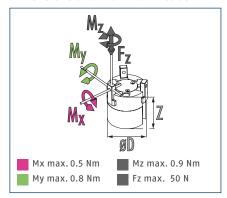
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



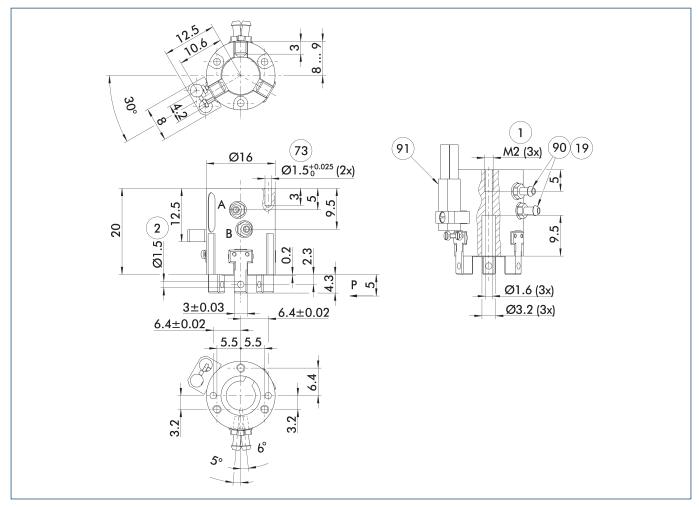
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		MPZ 16	MPZ 16-AS	MPZ 16-IS
ID		0340480	0340481	0340482
Stroke per jaw	[mm]	1	1	1
Closing/opening force	[N]	20/24	26/-	-/30
Min. spring force	[N]		6	6
Weight	[kg]	0.01	0.02	0.02
Recommended workpiece weight	[kg]	0.05	0.05	0.05
Fluid consumption double stroke	[cm³]	0.15	0.4	0.4
Min./nom./max. operating pressure	[bar]	2/6/8	4/6/6.5	4/6/6.5
Closing/opening time	[s]	0.02/0.02	0.02/0.04	0.04/0.02
Closing/opening time with spring	[s]		0.20	0.20
Max. permissible finger length	[mm]	16	16	16
Max. permissible mass per finger	[kg]	0.02	0.02	0.02
IP protection class		40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90
Repeat accuracy	[mm]	0.01	0.01	0.01
Cleanroom class ISO 14644-1:1999		5	5	5
Dimensions Ø D x Z	[mm]	16 x 20	16 x 26	16 x 26
Options and their characteristics				
H1 grease version		1475795	1475796	1475797

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.

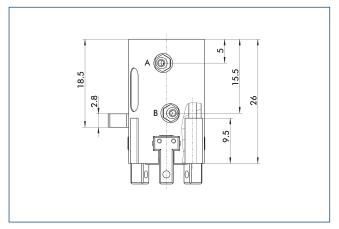
Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

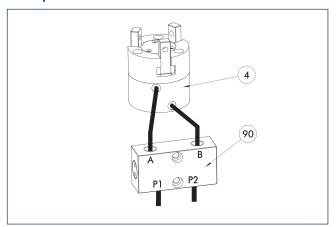
- ① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- (1) Gripper connection
- (2) Finger connection
- 19 Air connection
- 73 Fit for centering pins
- (90) Bosch-Rexroth compressed air hose, TU1-S (Ø 3.0-0.6) series, Order no.: 1820712066 (-67/-68/-69)
- (91) Sensor IN ...

Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

SDV-P pressure maintenance valve



(4) Grippers (90) SDV-P pressure maintenance

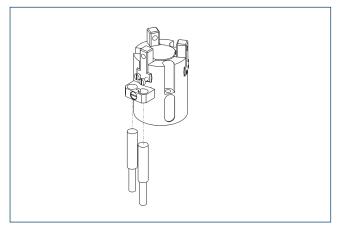
The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

Description	ID	Recommended hose diameter		
		[mm]		
Pressure maintenance	e valve			
SDV-P 04	0403130	6		
Pressure maintenance valve with air bleed screw				
SDV-P 04-E	0300120	6		

① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at schunk.com.

8

Inductive Proximity Switches



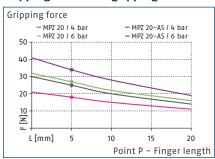
Directly mounted end position monitoring.

Description	ID	Often combined
Inductive proximity switches		
IN 30K-S-M8-PNP	1001272	
Connection cables		
KA BG08-L 3P-0300-PNP	0301622	•
KA BG08-L 3P-0500-PNP	0301623	
KA BW08-L 3P-0300-PNP	0301594	
KA BW08-L 3P-0500-PNP	0301502	
clip for plug/socket		
CLI-M8	0301463	
Cable extension		
KV BW08-SG08 3P-0030-PNP	0301495	
KV BW08-SG08 3P-0100-PNP	0301496	
KV BW08-SG08 3P-0200-PNP	0301497	•
Sensor distributor		
V2-M8	0301775	•
V4-M8	0301746	
V8-M8	0301751	

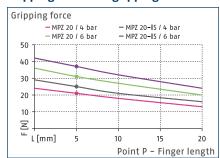
Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.



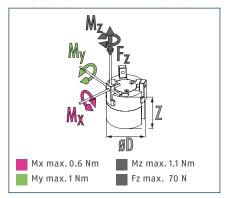
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



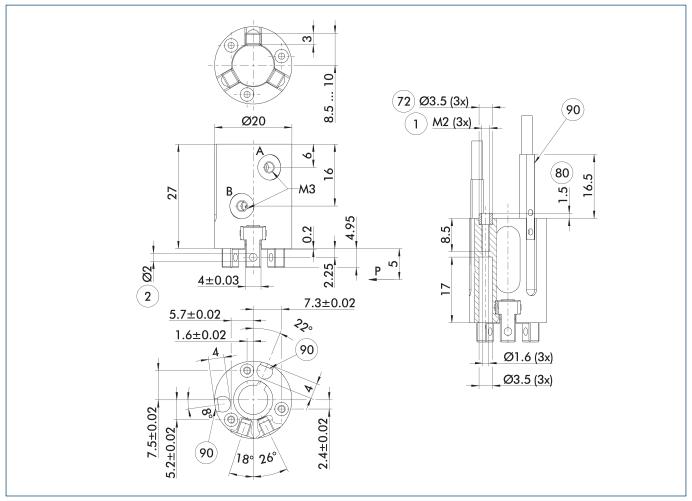
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		MPZ 20	MPZ 20-AS	MPZ 20-IS
ID		0340490	0340491	0340492
Stroke per jaw	[mm]	1.5	1.5	1.5
, ,	[N]	26/30	34/-	-/38
Closing/opening force		20/30		
Min. spring force	[N]		8	8
Weight	[kg]	0.02	0.03	0.03
Recommended workpiece weight	[kg]	0.1	0.1	0.1
Fluid consumption double stroke	[cm³]	0.3	0.7	0.7
Min./nom./max. operating pressure	[bar]	2/6/8	4/6/6.5	4/6/6.5
Closing/opening time	[s]	0.02/0.02	0.02/0.04	0.04/0.02
Closing/opening time with spring	[s]		0.20	0.20
Max. permissible finger length	[mm]	20	20	20
Max. permissible mass per finger	[kg]	0.03	0.03	0.03
IP protection class		40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90
Repeat accuracy	[mm]	0.01	0.01	0.01
Cleanroom class ISO 14644-1:1999		5	5	5
Dimensions Ø D x Z	[mm]	20 x 27	20 x 33	20 x 33
Options and their characteristics				
H1 grease version		1475798	1475799	1475820

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.

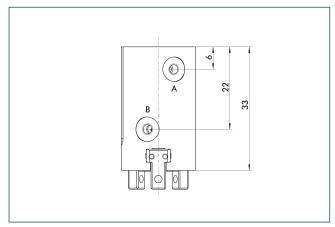
Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

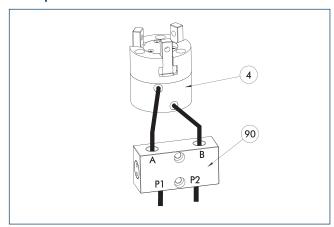
- ① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- (1) Gripper connection
- 2 Finger connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 90 Sensor MMS 22..

Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

SDV-P pressure maintenance valve



(4) Grippers (90) SDV-P pressure maintenance

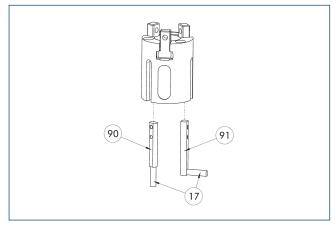
The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

Description	ID	Recommended hose diameter
		[mm]
Pressure maintenan	ce valve	
SDV-P 04	0403130	6
Pressure maintenance valve with air bleed screw		
SDV-P 04-E	0300120	6

① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at schunk.com.

12

Programmable magnetic switch MMS 22-PI1



(17) Cable outlet

(91) Sensor MMS 22 ..-PI1-...-SA

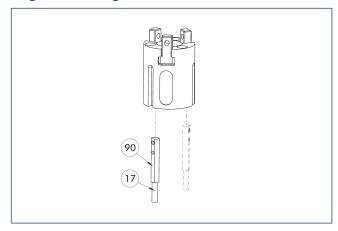
90 Sensor MMS 22 PI1-...

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined				
Programmable magnetic switch						
MMS 22-PI1-S-M8-PNP	0301160	•				
MMSK 22-PI1-S-PNP	0301162					
Programmable magnetic switch	Programmable magnetic switch with lateral cable outlet					
MMS 22-PI1-S-M8-PNP-SA	0301166	•				
MMSK 22-PI1-S-PNP-SA	0301168					
Programmable magnetic switch with stainless steel housing						
MMS 22-PI1-S-M8-PNP-HD	0301110	•				
MMSK 22-PI1-S-PNP-HD	0301112					

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI2



(17) Cable outlet

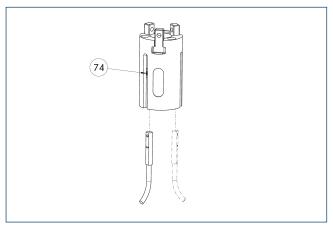
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined				
Programmable magnetic switch						
MMS 22-PI2-S-M8-PNP	0301180	•				
MMSK 22-PI2-S-PNP	0301182					
Programmable magnetic switch	Programmable magnetic switch with lateral cable outlet					
MMS 22-PI2-S-M8-PNP-SA	0301186	•				
MMSK 22-PI2-S-PNP-SA	0301188					
Programmable magnetic switch with stainless steel housing						
MMS 22-PI2-S-M8-PNP-HD	0301130	•				
MMSK 22-PI2-S-PNP-HD	0301132					

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

MMS-P programmable magnetic switch



74 Limit stop for sensor

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

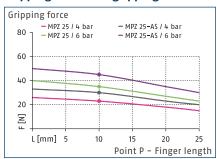
Description	ID	Often combined				
Programmable magnetic switch						
MMSK-P 22-S-PNP	0301371					
MMS-P 22-S-M8-PNP	0301370	•				
Connection cables						
KA GLN0804-LK-00500-A	0307767	•				
KA GLN0804-LK-01000-A	0307768					
KA WLN0804-LK-00500-A	0307765					
KA WLN0804-LK-01000-A	0307766					
clip for plug/socket						
CLI-M8	0301463					
Sensor distributor	Sensor distributor					
V2-M8-4P-2XM8-3P	0301380					

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

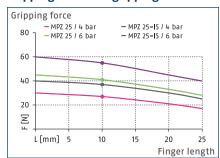
14



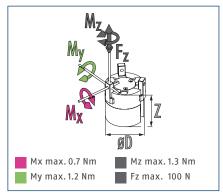
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



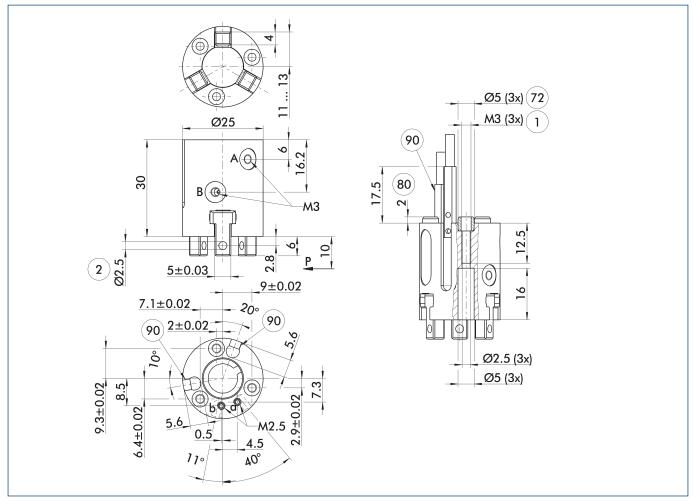
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		MPZ 25	MPZ 25-AS	MPZ 25-IS
ID		0340500	0340501	0340502
Stroke per jaw	[mm]	2	2	2
Closing/opening force	[N]	35/40	47/-	-/55
Min. spring force	[N]		12	15
Weight	[kg]	0.04	0.06	0.06
Recommended workpiece weight	[kg]	0.2	0.2	0.2
Fluid consumption double stroke	[cm³]	0.6	1.8	1.8
Min./nom./max. operating pressure	[bar]	2/6/8	4/6/6.5	4/6/6.5
Closing/opening time	[s]	0.02/0.02	0.02/0.04	0.04/0.02
Closing/opening time with spring	[s]		0.20	0.20
Max. permissible finger length	[mm]	25	25	25
Max. permissible mass per finger	[kg]	0.03	0.03	0.03
IP protection class		40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90
Repeat accuracy	[mm]	0.01	0.01	0.01
Cleanroom class ISO 14644-1:1999		5	5	5
Dimensions Ø D x Z	[mm]	25 x 30	25 x 42	25 x 42
Options and their characteristics				
H1 grease version		1377410	1314605	1475821

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.

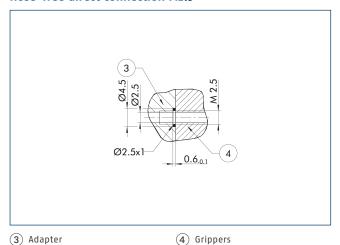
Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

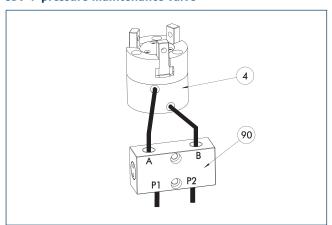
- ① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- (1) Gripper connection
- 2 Finger connection
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 90 Sensor MMS 22..

Hose-free direct connection M2.5



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

SDV-P pressure maintenance valve



4 Grippers

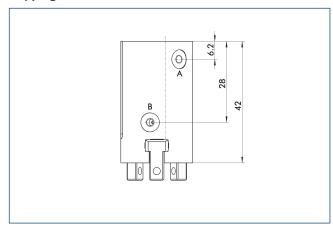
90 SDV-P pressure maintenance valve

The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

Description	ID	Recommended hose diameter		
		[mm]		
Pressure maintenand	e valve			
SDV-P 04	0403130	6		
Pressure maintenance valve with air bleed screw				
SDV-P 04-E	0300120	6		

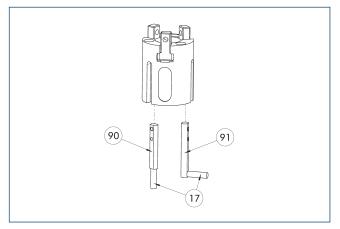
① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at schunk.com.

Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

Programmable magnetic switch MMS 22-PI1



17) Cable outlet

90 Sensor MMS 22 PI1-...

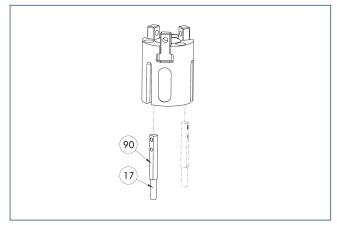
91) Sensor MMS 22 ..-PI1-...-SA

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined				
Programmable magnetic switch						
MMS 22-PI1-S-M8-PNP	0301160	•				
MMSK 22-PI1-S-PNP	0301162					
Programmable magnetic switch with lateral cable outlet						
MMS 22-PI1-S-M8-PNP-SA	0301166	•				
MMSK 22-PI1-S-PNP-SA	0301168					
Programmable magnetic switch with stainless steel housing						
MMS 22-PI1-S-M8-PNP-HD	0301110	•				
MMSK 22-PI1-S-PNP-HD	0301112					

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI2



(17) Cable outlet

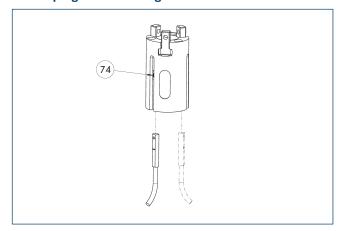
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined
Programmable magnetic switch		
MMS 22-PI2-S-M8-PNP	0301180	•
MMSK 22-PI2-S-PNP	0301182	
Programmable magnetic switch	with lateral c	able outlet
MMS 22-PI2-S-M8-PNP-SA	0301186	•
MMSK 22-PI2-S-PNP-SA	0301188	
Programmable magnetic switch	with stainles:	s steel housing
MMS 22-PI2-S-M8-PNP-HD	0301130	•
MMSK 22-PI2-S-PNP-HD	0301132	

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

MMS-P programmable magnetic switch



(74) Limit stop for sensor

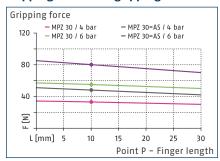
Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined				
Programmable magnetic switch	Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371					
MMS-P 22-S-M8-PNP	0301370	•				
Connection cables						
KA GLN0804-LK-00500-A	0307767	•				
KA GLN0804-LK-01000-A	0307768					
KA WLN0804-LK-00500-A	0307765					
KA WLN0804-LK-01000-A	0307766					
clip for plug/socket	clip for plug/socket					
CLI-M8	0301463					
Sensor distributor						
V2-M8-4P-2XM8-3P	0301380					

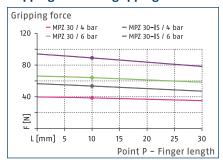
① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.



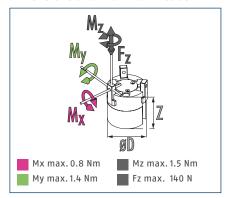
Gripping force 0.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



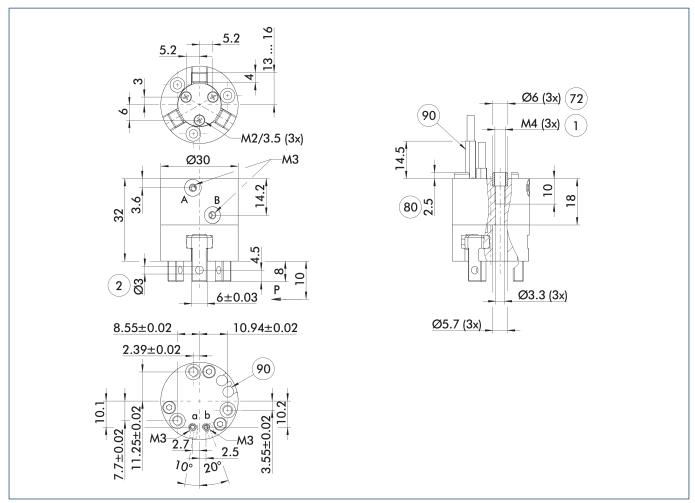
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		MPZ 30	MPZ 30-FPS	MPZ 30-AS	MPZ 30-IS
ID		0340510	0340513	0340511	0340512
Stroke per jaw	[mm]	3	3	3	3
Closing/opening force	[N]	55/65	55/65	80/-	-/90
Min. spring force	[N]			25	25
Weight	[kg]	0.08	0.1	0.09	0.09
Recommended workpiece weight	[kg]	0.28	0.28	0.28	0.28
Fluid consumption double stroke	[cm³]	1.8	1.8	4.2	3.2
Min./nom./max. operating pressure	[bar]	21618	2/6/8	4/6/6.5	4/6/6.5
Closing/opening time	[s]	0.02/0.02	0.02/0.02	0.02/0.04	0.04/0.02
Closing/opening time with spring	[s]			0.30	0.30
Max. permissible finger length	[mm]	30	30	30	30
Max. permissible mass per finger	[kg]	0.03	0.03	0.03	0.03
IP protection class		40	40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90	5/90
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01
Cleanroom class ISO 14644-1:1999		5	5	5	5
Dimensions Ø D x Z	[mm]	30 x 32	30 x 46	30 x 45	30 x 45
Options and their characteristics					
H1 grease version		30028778	1475822	30075342	30041802

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.

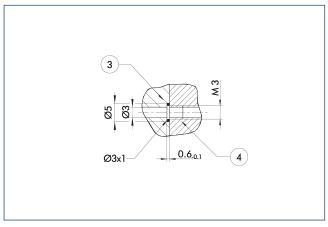
Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of 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 catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- (1) Gripper connection
- (2) Finger connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 90 Sensor MMS 22..

Hose-free direct connection M3

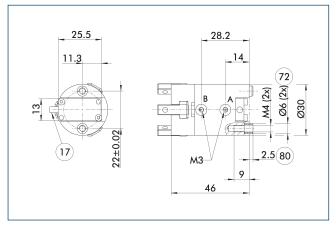


(3) Adapter

(4) Grippers

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

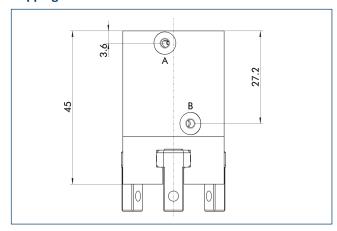
Flexible position sensor



- (17) Cable outlet
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

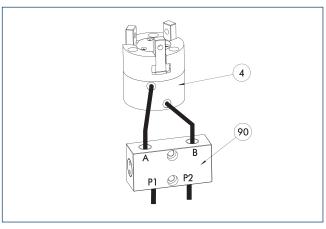
The following FPS position sensor can differentiate between five programmable areas or switching points for the stroke of a gripper, and can be used in connection with a PC as a measuring system.

Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

SDV-P pressure maintenance valve



4 Grippers

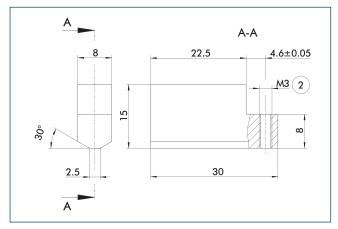
90 SDV-P pressure maintenance valve

The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

Description	ID	Recommended hose diameter	
		[mm]	
Pressure maintenance	valve		
SDV-P 04	0403130	6	
Pressure maintenance valve with air bleed screw			
SDV-P 04-E	0300120	6	

① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at schunk.com.

Finger blanks ABR-MPZ 30

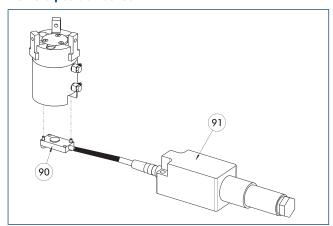


2 Finger connection

The drawing shows the finger blank which can be reworked by the customer. $% \label{eq:customer} % \label{eq:customer}$

Description	ID	Material	Scope of delivery
Finger blank			
ABR-MPZ 30	0340519	Aluminum	3

Flexible position sensor



90 FPS-S sensor

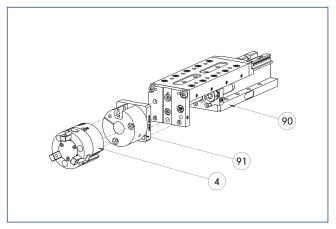
(91) FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

Description	ID	Often combined
Sensor		
FPS-S 13	0301705	
Evaluation electronics		
FPS-F5	0301805	•
Cable extension		
KV BG08-SG08 3P-0050	0301598	
KV BG08-SG08 3P-0100	0301599	
Connection cables		
KA BG16-L 12P-1000	0301801	
clip for plug/socket		
CLI-M8	0301463	

When using an FPS system, an FPS sensor (FPS-S) as well as an electronic processor (FPS-F5 / F5 T) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are optionally available – see catalog chapter "Accessories."

Modular Assembly Automation



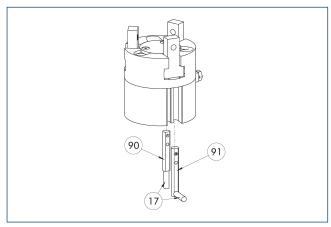
4 Grippers

91 ASG adapter plate

90 CLM/KLM/LM/ELP/ELM/ELS/HLM linear modules

Grippers and linear modules can be combined with standard adapter plates from the modular assembly system. For more information see our main catalog "Modular Assembly Automation".

Electronic magnetic switch MMS



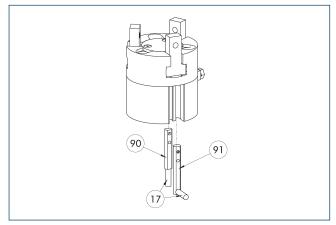
- $\widehat{17}$ Cable outlet
- 91) Sensor MMS 22...-SA
- 90 Sensor MMS 22..

End position monitoring for mounting in the C-slot.

Description	ID	Often combined				
Electronic magnetic switch						
MMS 22-S-M8-PNP	0301032	•				
MMSK 22-S-PNP	0301034					
Electronic magnetic switches with	lateral cable o	outlet				
MMS 22-S-M8-PNP-SA	0301042	•				
MMSK 22-S-PNP-SA	0301044					
Reed Switches						
RMS 22-S-M8	0377720	•				
Connection cables						
KA BG08-L 3P-0300-PNP	0301622	•				
KA BG08-L 3P-0500-PNP	0301623					
KA BW08-L 3P-0300-PNP	0301594					
KA BW08-L 3P-0500-PNP	0301502					
clip for plug/socket						
CLI-M8	0301463					
Wireless sensor system						
RSS-T2	0377715					
RSS-T2-US/CA	0377717					
Cable extension						
KV BW08-SG08 3P-0030-PNP	0301495					
KV BW08-SG08 3P-0100-PNP	0301496					
KV BW08-SG08 3P-0200-PNP	0301497	•				
Sensor distributor						
V2-M8	0301775	•				
V4-M8	0301746					
V8-M8	0301751					
© T						

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI1



(17) Cable outlet

(91) Sensor MMS 22 ..-PI1-...-SA

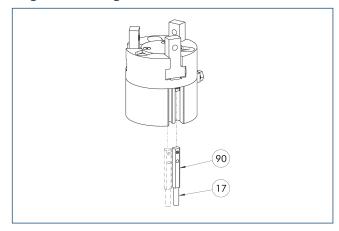
90 Sensor MMS 22 PI1-...

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined				
Programmable magnetic switch						
MMS 22-PI1-S-M8-PNP	0301160	•				
MMSK 22-PI1-S-PNP	0301162					
Programmable magnetic switch	Programmable magnetic switch with lateral cable outlet					
MMS 22-PI1-S-M8-PNP-SA	0301166	•				
MMSK 22-PI1-S-PNP-SA	0301168					
Programmable magnetic switch with stainless steel housing						
MMS 22-PI1-S-M8-PNP-HD	0301110	•				
MMSK 22-PI1-S-PNP-HD	0301112					

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI2



(17) Cable outlet

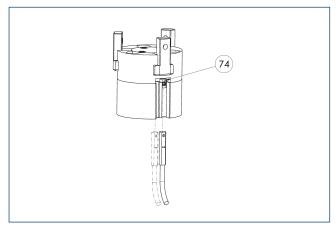
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined				
Programmable magnetic switch						
MMS 22-PI2-S-M8-PNP	0301180	•				
MMSK 22-PI2-S-PNP	0301182					
Programmable magnetic switch	Programmable magnetic switch with lateral cable outlet					
MMS 22-PI2-S-M8-PNP-SA	0301186	•				
MMSK 22-PI2-S-PNP-SA	0301188					
Programmable magnetic switch with stainless steel housing						
MMS 22-PI2-S-M8-PNP-HD	0301130	•				
MMSK 22-PI2-S-PNP-HD	0301132					

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

MMS-P programmable magnetic switch



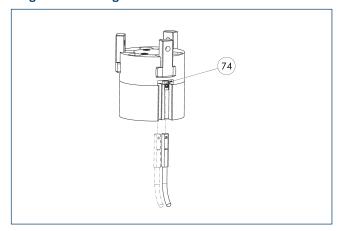
(74) Limit stop for sensor

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined				
Programmable magnetic switch	Programmable magnetic switch					
MMSK-P 22-S-PNP	0301371					
MMS-P 22-S-M8-PNP	0301370	•				
Connection cables						
KA GLN0804-LK-00500-A	0307767	•				
KA GLN0804-LK-01000-A	0307768					
KA WLN0804-LK-00500-A	0307765					
KA WLN0804-LK-01000-A	0307766					
clip for plug/socket						
CLI-M8	0301463					
Sensor distributor						
V2-M8-4P-2XM8-3P	0301380					

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

Programmable magnetic switch MMS-I0-Link



74) Limit stop for sensor

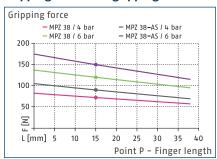
Sensor for multi-position monitoring through detection of the complete gripper stroke. The sensor is mounted directly in the C-slot of the gripper. Sensor programming on the gripper takes place via the IO-Link interface or the MT magnetic teach tool (included in scope of delivery). An IO-Link master is required for operation.

Description	ID
Programmable mag	netic switch
MMS 22-I0L-M08	0315830
MMS 22-I0L-M12	0315835

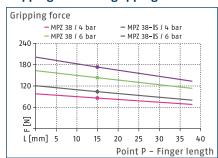
① One sensor is required for each gripper. No additional mounting kit is required – the gripper is equipped for use of the sensor by default. Further information and technical data can be found in the catalog chapter sensor systems.



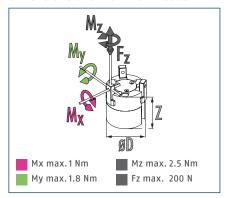
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



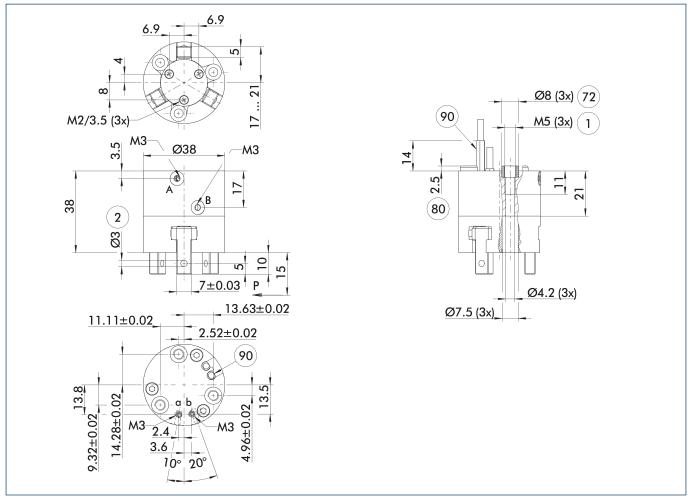
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		MPZ 38	MPZ 38-FPS	MPZ 38-AS	MPZ 38-IS
ID		0340520	0340523	0340521	0340522
Stroke per jaw	[mm]	4	4	4	4
Closing/opening force	[N]	120/140	120/140	150/-	-/180
Min. spring force	[N]			30	40
Weight	[kg]	0.14	0.19	0.19	0.19
Recommended workpiece weight	[kg]	0.6	0.6	0.6	0.6
Fluid consumption double stroke	[cm³]	3.5	3.5	10.3	8.4
Min./nom./max. operating pressure	[bar]	2/6/8	2/6/8	4/6/6.5	4/6/6.5
Closing/opening time	[s]	0.02/0.02	0.02/0.02	0.02/0.04	0.04/0.02
Closing/opening time with spring	[s]			0.20	0.20
Max. permissible finger length	[mm]	38	38	38	38
Max. permissible mass per finger	[kg]	0.05	0.05	0.05	0.05
IP protection class		40	40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90	5/90
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01
Cleanroom class ISO 14644-1:1999		5	5	5	5
Dimensions Ø D x Z	[mm]	38 x 38	38 x 53	38 x 59	38 x 59
Options and their characteristics					
H1 grease version		30046783	1475823	1441506	30047905

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.

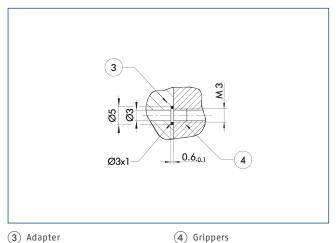
Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

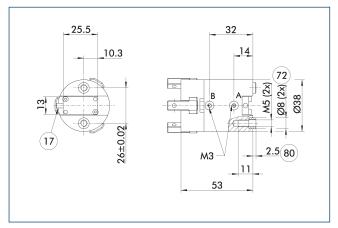
- ① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- (1) Gripper connection
- 2 Finger connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 90 Sensor MMS 22..

Hose-free direct connection M3



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

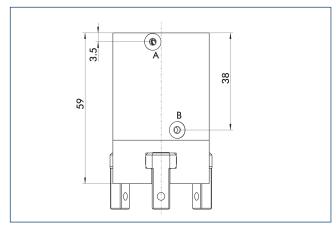
Flexible position sensor



- 17) Cable outlet
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

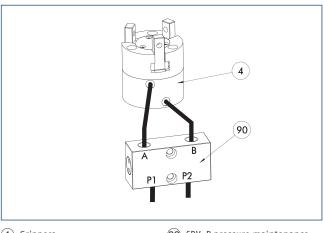
The following FPS position sensor can differentiate between five programmable areas or switching points for the stroke of a gripper, and can be used in connection with a PC as a measuring system.

Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

SDV-P pressure maintenance valve



4 Grippers

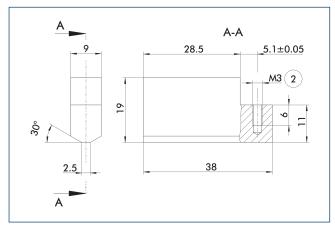
90 SDV-P pressure maintenance valve

The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

Description	ID	Recommended hose diameter	
		[mm]	
Pressure maintenance	e valve		
SDV-P 04	0403130	6	
Pressure maintenance valve with air bleed screw			
SDV-P 04-E	0300120	6	

① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at schunk.com.

Finger blanks ABR-MPZ 38

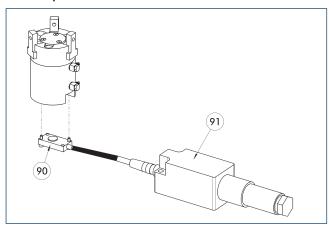


2 Finger connection

The drawing shows the finger blank which can be reworked by the customer. $% \label{eq:customer} % \label{eq:customer}$

Description	ID	Material	Scope of delivery
Finger blank			
ABR-MPZ 38	0340529	Aluminum	3

Flexible position sensor



90 FPS-S sensor

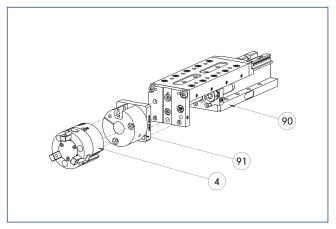
(91) FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

Description	ID	Often combined
Sensor		
FPS-S 13	0301705	
Evaluation electronics		
FPS-F5	0301805	•
Cable extension		
KV BG08-SG08 3P-0050	0301598	
KV BG08-SG08 3P-0100	0301599	
Connection cables		
KA BG16-L 12P-1000	0301801	
clip for plug/socket		
CLI-M8	0301463	

When using an FPS system, an FPS sensor (FPS-S) as well as an electronic processor (FPS-F5 / F5 T) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are optionally available – see catalog chapter "Accessories."

Modular Assembly Automation



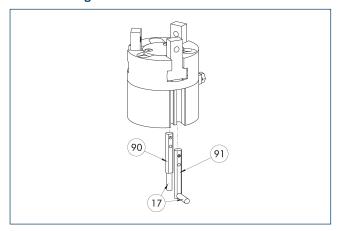
4 Grippers

91) ASG adapter plate

90 CLM/KLM/LM/ELP/ELM/ELS/HLM linear modules

Grippers and linear modules can be combined with standard adapter plates from the modular assembly system. For more information see our main catalog "Modular Assembly Automation".

Electronic magnetic switch MMS



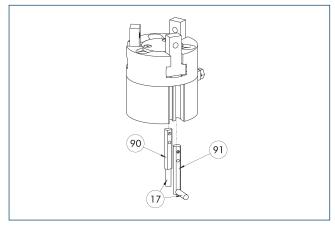
- $\widehat{17}$ Cable outlet
- 91) Sensor MMS 22...-SA
- 90 Sensor MMS 22..

End position monitoring for mounting in the C-slot.

301032	
301032	
	•
301034	
iteral cable c	outlet
301042	•
301044	
301622	•
301623	
301594	
301502	
301463	
301495	
301496	
301497	•
301775	•
301746	
301751	
111111111111111111111111111111111111111	801622 801623 801594 801502 801463 801495 801497 801775 801746

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI1



(17) Cable outlet

(91) Sensor MMS 22 ..-PI1-...-SA

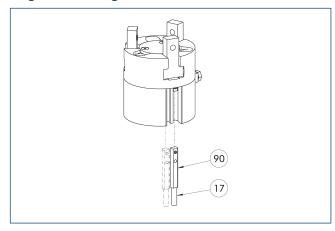
90 Sensor MMS 22 PI1-...

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined		
Programmable magnetic switch				
MMS 22-PI1-S-M8-PNP	0301160	•		
MMSK 22-PI1-S-PNP	0301162			
Programmable magnetic switch with lateral cable outlet				
MMS 22-PI1-S-M8-PNP-SA	0301166	•		
MMSK 22-PI1-S-PNP-SA	0301168			
Programmable magnetic switch with stainless steel housing				
MMS 22-PI1-S-M8-PNP-HD	0301110	•		
MMSK 22-PI1-S-PNP-HD	0301112			

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI2



(17) Cable outlet

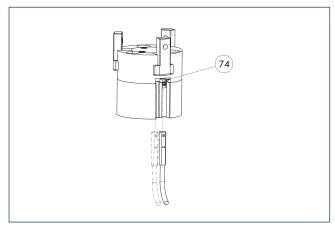
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined			
Programmable magnetic switch					
MMS 22-PI2-S-M8-PNP	0301180	•			
MMSK 22-PI2-S-PNP	0301182				
Programmable magnetic switch with lateral cable outlet					
MMS 22-PI2-S-M8-PNP-SA	0301186	•			
MMSK 22-PI2-S-PNP-SA	0301188				
Programmable magnetic switch with stainless steel housing					
MMS 22-PI2-S-M8-PNP-HD	0301130	•			
MMSK 22-PI2-S-PNP-HD	0301132				

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

MMS-P programmable magnetic switch



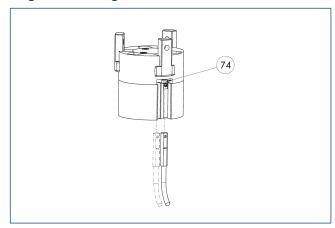
(74) Limit stop for sensor

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

ID	Often combined
h	
0301371	
0301370	•
0307767	•
0307768	
0307765	
0307766	
0301463	
0301380	
	h 0301371 0301370 0307767 0307768 0307765 0307766

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

Programmable magnetic switch MMS-I0-Link



(74) Limit stop for sensor

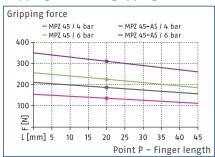
Sensor for multi-position monitoring through detection of the complete gripper stroke. The sensor is mounted directly in the C-slot of the gripper. Sensor programming on the gripper takes place via the IO-Link interface or the MT magnetic teach tool (included in scope of delivery). An IO-Link master is required for operation.

Description	ID
Programmable mag	netic switch
MMS 22-I0L-M08	0315830
MMS 22-I0L-M12	0315835

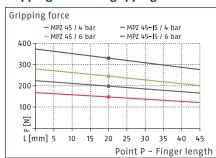
① One sensor is required for each gripper. No additional mounting kit is required – the gripper is equipped for use of the sensor by default. Further information and technical data can be found in the catalog chapter sensor systems.



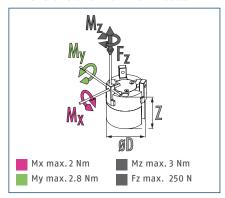
Gripping force O.D. gripping



Gripping force I.D. gripping



Dimensions and maximum loads



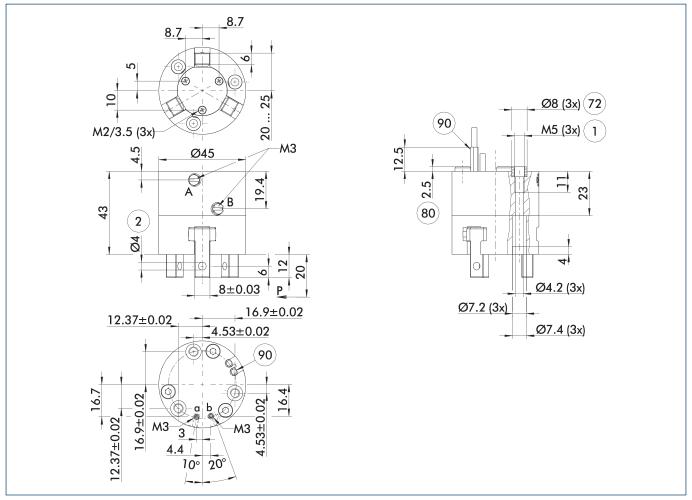
The indicated moments and forces are statical values, apply for each base jaw and may appear simultaneously. Loads may additionally occur to the moment produced by the gripping force itself.

Technical data

Description		MPZ 45	MPZ 45-FPS	MPZ 45-AS	MPZ 45-IS
ID		0340530	0340533	0340531	0340532
Stroke per jaw	[mm]	5	5	5	5
Closing/opening force	[N]	225/245	225/245	310/-	-/340
Min. spring force	[N]			85	95
Weight	[kg]	0.22	0.29	0.28	0.28
Recommended workpiece weight	[kg]	1.15	1.15	1.15	1.15
Fluid consumption double stroke	[cm³]	8.9	8.9	18.4	15.2
Min./nom./max. operating pressure	[bar]	2/6/8	2/6/8	4/6/6.5	4/6/6.5
Closing/opening time	[s]	0.05/0.05	0.05/0.05	0.05/0.06	0.06/0.05
Closing/opening time with spring	[s]			0.30	0.30
Max. permissible finger length	[mm]	45	45	45	45
Max. permissible mass per finger	[kg]	0.08	0.08	0.08	0.08
IP protection class		40	40	40	40
Min./max. ambient temperature	[°C]	5/90	5/90	5/90	5/90
Repeat accuracy	[mm]	0.01	0.01	0.01	0.01
Cleanroom class ISO 14644-1:1999		5	5	5	5
Dimensions Ø D x Z	[mm]	45 x 43	45 x 60	45 x 58	45 x 58
Options and their characteristics					
H1 grease version		30047560	1475826	1475824	1475825

① It may take a few 100 gripping cycles until the full gripping force (as indicated in the data table) will be available.

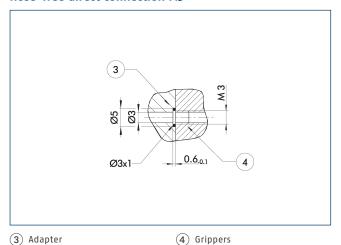
Main view



The drawing shows the gripper in the basic version with closed jaws, without dimensional consideration of the options described below.

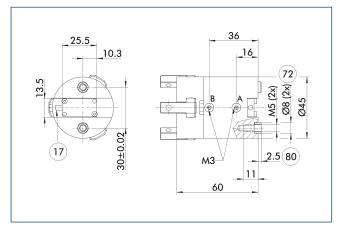
- ① The SDV-P pressure maintenance valve can also be used for I.D. or O.D. gripping alternatively or in addition to the spring-loaded, mechanical gripping force maintenance device (see catalog section on accessories).
- A, a Main / direct connection, gripper opening
- B, b Main / direct connection, gripper closing
- (1) Gripper connection
- 2 Finger connection
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 90 Sensor MMS 22..

Hose-free direct connection M3



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

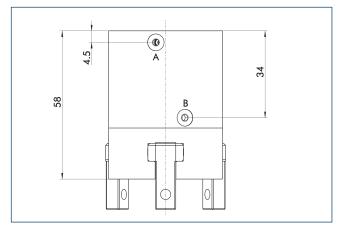
Flexible position sensor



- (17) Cable outlet
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

The following FPS position sensor can differentiate between five programmable areas or switching points for the stroke of a gripper, and can be used in connection with a PC as a measuring system.

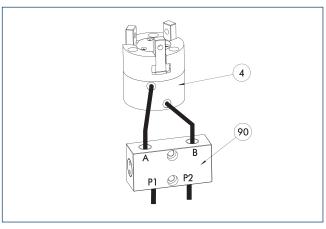
Gripping force maintenance device AS / IS



The mechanical gripping force maintenance device ensures that a minimum clamping force will be applied even if there is a drop in pressure. This acts as closing force in the AS / S version, and as opening force in the IS version. Besides this, the gripping force maintenance device can be used to increase the gripping force or for single actuated gripping.

SDV-P pressure maintenance valve

(4) Grippers



The SDV-P pressure maintenance valve ensures in emergency STOP situations that the pressure in the piston chamber of pneumatic gripper, swivel, linear, and quick-change modules is temporarily maintained.

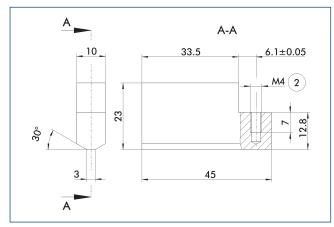
90 SDV-P pressure maintenance

valve

Description	ID	Recommended hose diameter	
		[mm]	
Pressure mainte	nance valve		
SDV-P 04	0403130	6	
Pressure maintenance valve with air bleed screw			
SDV-P 04-E	0300120	6	

① In order to achieve the specified closing and opening time for each gripper variant, the recommended hose diameter must be used. The direct allocation of the respective variant of the gripper for the respective SDV-P can be found at schunk.com.

Finger blanks ABR-MPZ 45

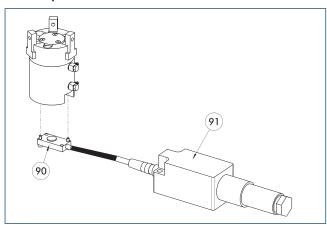


2 Finger connection

The drawing shows the finger blank which can be reworked by the customer. $% \label{eq:customer} % \label{eq:customer}$

Description	ID	Material	Scope of delivery
Finger blank			
ABR-MPZ 45	0340539	Aluminum	3

Flexible position sensor



90 FPS-S sensor

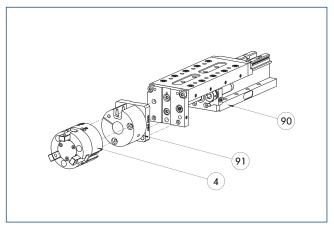
(91) FPS-F5 evaluation electronic

Flexible position monitoring of up to five positions.

Description	ID	Often combined
Sensor		
FPS-S 13	0301705	
Evaluation electronics		
FPS-F5	0301805	•
Cable extension		
KV BG08-SG08 3P-0050	0301598	
KV BG08-SG08 3P-0100	0301599	
Connection cables		
KA BG16-L 12P-1000	0301801	
clip for plug/socket		
CLI-M8	0301463	

When using an FPS system, an FPS sensor (FPS-S) as well as an electronic processor (FPS-F5 / F5 T) are required for each gripper as well as a mounting kit (AS), if listed. Cable extensions (KV) are optionally available – see catalog chapter "Accessories."

Modular Assembly Automation



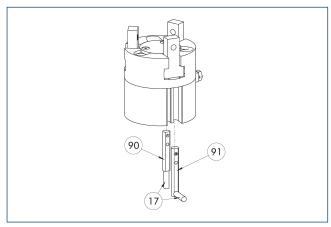
4 Grippers

(91) ASG adapter plate

90 CLM/KLM/LM/ELP/ELM/ELS/HLM linear modules

Grippers and linear modules can be combined with standard adapter plates from the modular assembly system. For more information see our main catalog "Modular Assembly Automation".

Electronic magnetic switch MMS



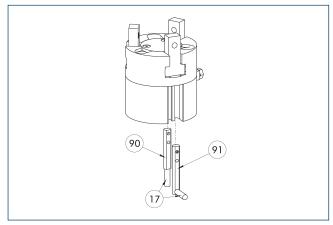
- $\widehat{17}$ Cable outlet
- 91) Sensor MMS 22...-SA
- 90 Sensor MMS 22..

End position monitoring for mounting in the C-slot.

301032	
301032	
	•
301034	
iteral cable c	outlet
301042	•
301044	
301622	•
301623	
301594	
301502	
301463	
301495	
301496	
301497	•
301775	•
301746	
301751	
111111111111111111111111111111111111111	801622 801623 801594 801502 801463 801495 801497 801775 801746

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI1



(17) Cable outlet

(91) Sensor MMS 22 ..-PI1-...-SA

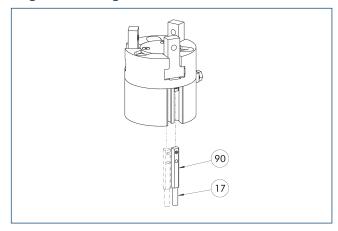
90 Sensor MMS 22 PI1-...

Position monitoring with one programmable position per sensor and integrated electronic system in the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined		
Programmable magnetic switch				
MMS 22-PI1-S-M8-PNP	0301160	•		
MMSK 22-PI1-S-PNP	0301162			
Programmable magnetic switch with lateral cable outlet				
MMS 22-PI1-S-M8-PNP-SA	0301166	•		
MMSK 22-PI1-S-PNP-SA	0301168			
Programmable magnetic switch with stainless steel housing				
MMS 22-PI1-S-M8-PNP-HD	0301110	•		
MMSK 22-PI1-S-PNP-HD	0301112			

Two sensors are required per unit for monitoring two positions. On option, extension cables and sensor distributors are available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor system.

Programmable magnetic switch MMS 22-PI2



(17) Cable outlet

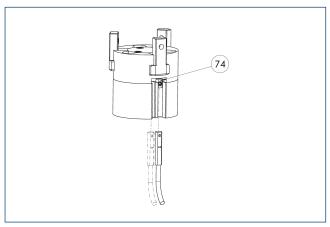
90 MMS 22...-PI2-... sensor

Position monitoring with two programmable positions per sensor and electronics built into the sensor. Can be programmed using MT magnetic teaching tool (included in the scope of delivery) or ST plug teaching tool (optional). End position monitoring for mounting in the C-slot. If the ST plug teaching tools are listed in the table provided, teaching is only possible with the ST teaching tools.

Description	ID	Often combined		
Programmable magnetic switch				
MMS 22-PI2-S-M8-PNP	0301180	•		
MMSK 22-PI2-S-PNP	0301182			
Programmable magnetic switch with lateral cable outlet				
MMS 22-PI2-S-M8-PNP-SA	0301186	•		
MMSK 22-PI2-S-PNP-SA	0301188			
Programmable magnetic switch with stainless steel housing				
MMS 22-PI2-S-M8-PNP-HD	0301130	•		
MMSK 22-PI2-S-PNP-HD	0301132			

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.

MMS-P programmable magnetic switch



74 Limit stop for sensor

Position monitoring with two programmable positions per sensor. End position monitoring for mounting in the C-slot.

Description	ID	Often combined		
Programmable magnetic switch				
MMSK-P 22-S-PNP	0301371			
MMS-P 22-S-M8-PNP	0301370	•		
Connection cables				
KA GLN0804-LK-00500-A	0307767	•		
KA GLN0804-LK-01000-A	0307768			
KA WLN0804-LK-00500-A	0307765			
KA WLN0804-LK-01000-A	0307766			
clip for plug/socket				
CLI-M8	0301463			
Sensor distributor				
V2-M8-4P-2XM8-3P	0301380			

① One sensor is required per unit for monitoring two positions. Extension cables and sensor distributors are optionally available. Additional product variants of the sensor, and further information and technical data can be found in the catalog chapter sensor systems.



SCHUNK GmbH & Co. KG Spann- und Greiftechnik

Bahnhofstr. 106 - 134 D-74348 Lauffen/Neckar Tel. +49-7133-103-0 Fax +49-7133-103-2399 info@de.schunk.com schunk.com

Folgen Sie uns | Follow us









