

Superior Clamping and Gripping



Product data sheet

Universal swivel unit SRU-plus-D

Robust. Fast. High Performance. Universal swivel unit SRU-plus-D

Universally usable unit for pneumatic swivel and turning movements

Field of application

Can be used in either clean or dirty areas, or wherever pneumatic swiveling is required.



Advantages – Your benefits

Finely graded series with a steady increase in torque for multiple cases of application, the correct size as a standard product is available

Swivel angle can be selected as either 90° or 180° complete flexibility in selecting the angle of rotation, application-specific angles possible on request

Drive-side M12 plug connectors for electrical rotary feed-through for simple commissioning and maintenance

Middle position can be selected as pneumatic or locked The locked middle position can be unlocked when loaded. The two types of middle positions always allow further rotation in either direction. Fluid feed-through can be used for gases, fluids, and vacuum therefore no interfering hoses

Electrical rotary feed-through for long-lasting, reliable feed-through of sensor

Choice of electronic magnetic sensors or inductive proximity sensors for absolute variability of position monitoring

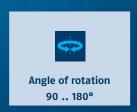
Exchangeable screw-in guide sleeves (bushing) allow for easy maintenance and rapid exchange t after several million cycles.











Functional description

When subjected to pressure, the two pneumatic pistons move their end faces in a straight line in their respective bores thus turning the pinion by means of the serrations on their sides.



- 1 Drive
 - Pneumatic, powerful double-piston drive with rack and pinion kinematics for conversion of the piston movement into a rotational movement
- ② **Swivel angle adjustment**for fine adjustment of end positions and damping characteristics
- 3 Inductive monitoring with fixed control cam for process-reliable monitoring of end positions
- Electrical rotary feed-through
 Fully integrated feed-through for sensor and actuator signals
- © Connections for fluid feed-through for direct connection of the pneumatic supply of the swivel set-up to the fixed part of the swivel unit
- © Connections for electric rotary feed-through Standard M12 connector for easy connection and further processing of electric signals

General notes about the series

Housing material: Aluminum (extruded profile)

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

Operating principle: Double piston rack and pinion principle

Scope of delivery: Flow control valves, centering bushings, 0-rings for direct connection, fitting screws (SRU-plus 63 only), assembly and operating manual with manufacturer's declaration

Warranty: 24 months

Service life characteristics: on request

Repeat accuracy: is defined as a distribution of the end position for 100 consecutive cycles.

Pinion position: is always shown in the left end position. The pinion rotates from here to the right in clockwise direction. The arrow makes the direction of rotation clear.

Torque in the end positions: Please note that the final angular degrees (approx. 2°) before the end position can only be approached using the force of a single drive piston. For this reason, double actuated modules only have about half the rated torque available in this area. An external stop can be used to provide the full torque even in the end positions.

Travel to the pneumatic middle position: is carried out using only half of the nominal torque.

Swiveling time: is the rotation time of pinion/flange around the nominal rotation angle. Valve switching times, hose filling times, or PLC reaction times are not included and are to be considered when cycle times are calculated.

Application example

Swivel unit with electrical and pneumatic feed-through and double gripper for loading and unloading a machine tool

- Universal swivel unit SRU-plus-D
- 2 Tolerance compensation unit TCU
- 3 Universal gripper PGN-plus-P
- 4 Inductive proximity switches IN
- Magnetic switch MMS
- **6** Universal linear module Beta with toothed belt drive



SCHUNK offers more ...

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











Universal gripper

Sealed gripper

Angular gripper

Linear module









Inductive proximity switch

Magnetic switches

Pressure maintenance valve

Line gantry



Fittings

 $\textcircled{\textbf{}} \quad \text{For more information on these products can be found on the following product pages or at schunk.com.}$

Options and special information

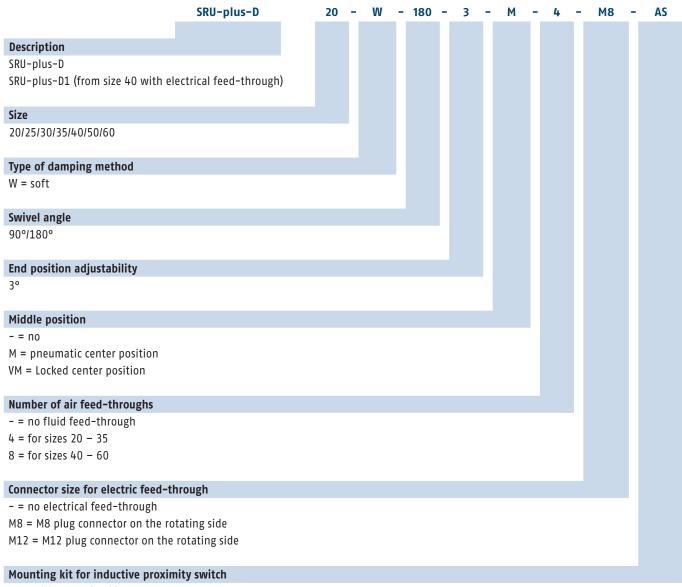
For particularly damping-intensive swivel movements, additional, external shock absorbers can be fitted. Due to the innovative sleeve technology, special rotation angles of more than 180° can be provided quickly and economically. Please contact us for assistance.

Please note that suitable emergency stop scenarios (e.g. controlled shut down) and restarting scenarios (e.g. pressure build-up valves, appropriate valve switching sequences) are needed for all pneumatic actuators.

Cutting off the pressure in an uncontrolled manner could lead to undefined states and behavior.

Food-grade lubrication: The product contains food-compliant lubricants as standard. The requirements of standard EN 1672-2:2020 are not fully met. The relevant NSF certificates are available at https://info.nsf.org/USDA/Listings.asp using the lubricant information in the operating manual. Components such as rolling bearings, linear guides, or shock absorbers are not provided with food-compliant lubricants.

Ordering example



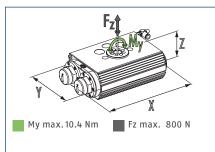
AS = with mounting kit

SRU-plus-D

Universal swivel unit



Dimensions and maximum loads

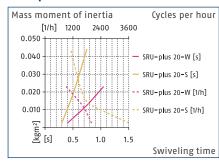


The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

Technical data SRU-plus-D without center position

Designation (soft damping)		SRU-plus-D 20-W-90-3-AS	SRU-plus-D 20-W-180-3-AS
ID		37361400	37361420
End position damping		Spring-elastomer	Spring-elastomer
Angle of rotation	[°]	90.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	3.4	3.4
Number of intermediate positions		none	none
IP protection class		67	67
Weight	[kg]	1.2	1.2
Fluid consumption (2x nom. angle)	[cm³]	36.0	60.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 20-W-90-3-4-AS	SRU-plus-D 20-W-180-3-4-AS
ID		37361402	37361422
Torque	[Nm]	3.0	3.0
Weight	[kg]	1.4	1.4
No. of fluid feed-throughs		4	4
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D 20-W-90-3-4-M8-AS	SRU-plus-D 20-W-180-3-4-M8-AS
ID		37361407	37361427
Weight	[kg]	2.05	2.05

Max. permissible inertia J*

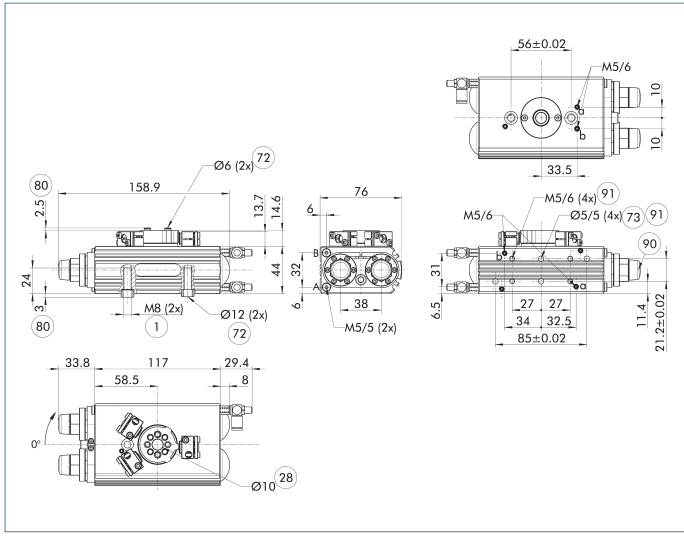


* *The diagrams are valid for basic units and for applications with a vertical swivel axis as well as for absolutely centric loads with a horizontal swivel axis and with an operating pressure of 6 bar. The swiveling times per throttling have to be observed, otherwise the life time may reduce. We will be happy to help you designing other applications. In addition, the SCHUNK Swiveling sizing assistant is available online.

Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 20-W-180-3-M-AS	SRU-plus-D 20-W-180-3-VM-AS
ID		37361430	37361440
End position damping		Spring-elastomer	Spring-elastomer
Angle of rotation	[°]	180.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	3.4	3.4
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)
Adjustability of middle position	[°]	3.0	3.0
IP protection class		67	67
Weight	[kg]	1.55	1.76
Fluid consumption (2x nom. angle)	[cm³]	60.0	60.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 20-W-180-3-M-4-AS	SRU-plus-D 20-W-180-3-VM-4-AS
ID		37361432	37361442
Torque	[Nm]	3.0	3.0
Weight	[kg]	1.75	1.96
No. of fluid feed-throughs		4	4
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D 20-W-180-3-M-4-M8-AS	SRU-plus-D 20-W-180-3-VM-4-M8-AS
ID		37361437	37361447
Weight	[kg]	2.4	2.61

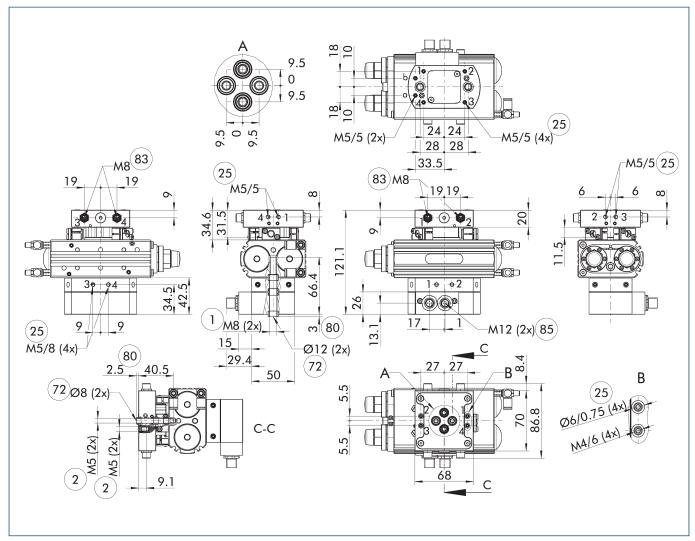
Main view for SRU-plus-D without EDF



- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- 28 Through-hole

- (72) Fit for centering sleeves
- $\overline{\mathbf{73}}$ Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

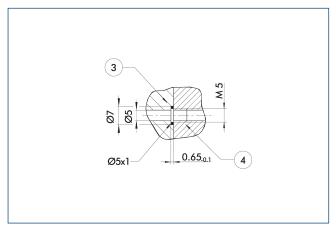


- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- (83) Input for 3 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 20

Universal swivel unit

Hose-free direct connection M5

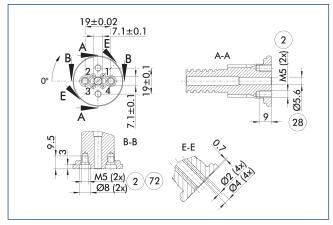


3 Adapter

(4) Rotary unit

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

Pinion with fluid feed-through

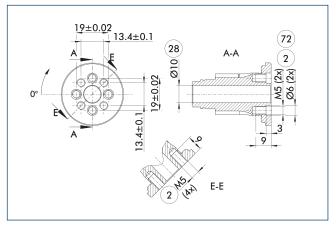


- 2 Attachment connection
- 72) Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram for the fluid feed-through option. The preferred drilling pattern is 2 x screws and 2 x screws with centering sleeve (in \emptyset 8 H7).

① View applicable only for versions without EDF!

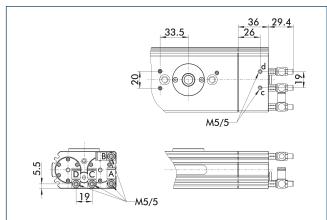
Pinion without fluid feed-through



- 2 Attachment connection
- (72) Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

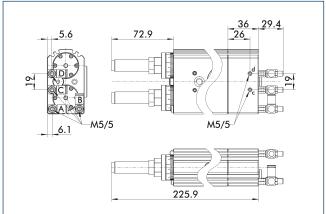
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

- A, a Main / direct connection, rotary actuator rotates clockwise
 - B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25) Fluid feed-through

M5/8

M5/5 25 **P** (80)

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

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

Ø12 (2x)72

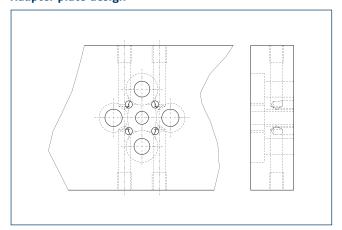
① View applicable only for versions without EDF!

18

Connections for fluid feed-through

25 M5/5 (4x)

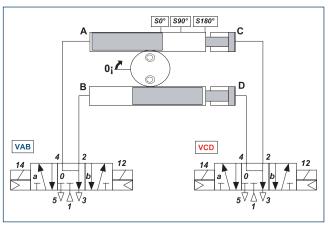
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

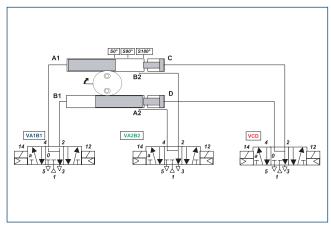
View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



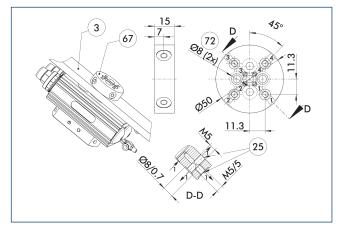
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



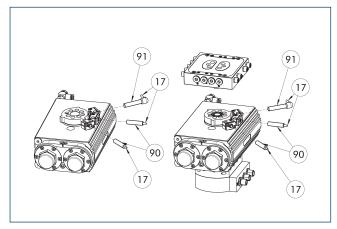
- 3 Adapter
- 25) Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 20/25/30	0357392

① View applicable only for versions without EDF!

Inductive proximity switches



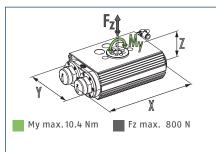
- $\widehat{17}$ Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Description	ID	Often combined					
Inductive proximity switch							
IN 80-S-M12	0301578						
IN 80-S-M8	0301478	•					
IN-C 80-S-M8-PNP	0301475						
INK 80-S	0301550						
INK 80-SL	0301579						
Inductive proximity switch with la	teral cable ou	tlet					
IN 80-S-M12-SA	0301587						
IN 80-S-M8-SA	0301483	•					
INK 80-S-SA	0301566						
Connection cables							
KA BG08-L 3P-0300-PNP	0301622	•					
KA BG08-L 3P-0500-PNP	0301623						
KA BG12-L 3P-0500-PNP	30016369						
KA BW08-L 3P-0300-PNP	0301594						
KA BW08-L 3P-0500-PNP	0301502						
KA BW12-L 3P-0300-PNP	0301503						
KA BW12-L 3P-0500-PNP	0301507						
Clip for connector/socket							
CLI-M12	0301464						
CLI-M8	0301463						
Cable extension							
KV BG12-SG12 3P-0030-PNP	0301999						
KV BG12-SG12 3P-0060-PNP	0301998						
KV BW08-SG08 3P-0030-PNP	0301495						
KV BW08-SG08 3P-0100-PNP	0301496						
KV BW08-SG08 3P-0200-PNP	0301497	•					
KV BW12-SG12 3P-0030-PNP	0301595						
KV BW12-SG12 3P-0100-PNP	0301596						
KV BW12-SG12 3P-0200-PNP	0301597						
Sensor distributor							
V2-M12	0301776	•					
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.



Dimensions and maximum loads

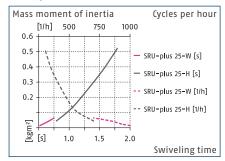


The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

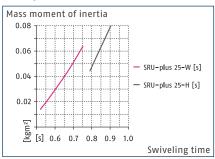
Technical data SRU-plus-D without center position

Designation (soft damping)		SRU-plus-D 25-W-90-3-AS	SRU-plus-D 25-W-180-3-AS
ID		37361600	37361620
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	90.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	5.0	5.0
Number of intermediate positions		none	none
IP protection class		67	67
Weight	[kg]	1.6	1.6
Fluid consumption (2x nom. angle)	[cm³]	60.0	88.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 25-W-90-3-4-AS	SRU-plus-D 25-W-180-3-4-AS
ID		37361602	37361622
Torque	[Nm]	4.6	4.6
Weight	[kg]	1.8	1.8
No. of fluid feed-throughs		4	4
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D 25-W-90-3-4-M8-AS	SRU-plus-D 25-W-180-3-4-M8-AS
ID		37361607	37361627
Weight	[kg]	2.45	2.45

Max. permissible inertia J*



Max. permissible inertia J*

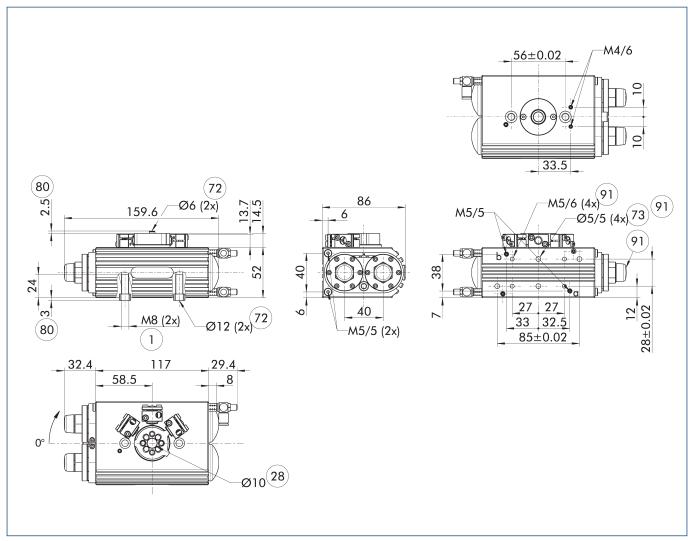


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Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 25-W-180-3-M-AS	SRU-plus-D 25-W-180-3-VM-AS
ID		37361630	37361640
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	180.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	5.0	5.0
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)
Adjustability of middle position	[°]	3.0	3.0
IP protection class		67	67
Weight	[kg]	2.2	2.6
Fluid consumption (2x nom. angle)	[cm³]	88.0	88.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 25-W-180-3-M-4-AS	SRU-plus-D 25-W-180-3-VM-4-AS
ID		37361632	37361642
Torque	[Nm]	4.6	4.6
Weight	[kg]	2.4	2.8
No. of fluid feed-throughs		4	4
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D 25-W-180-3-M-4-M8-AS	SRU-plus-D 25-W-180-3-VM-4-M8-AS
ID		37361637	37361647
Weight	[kg]	3.05	3.45

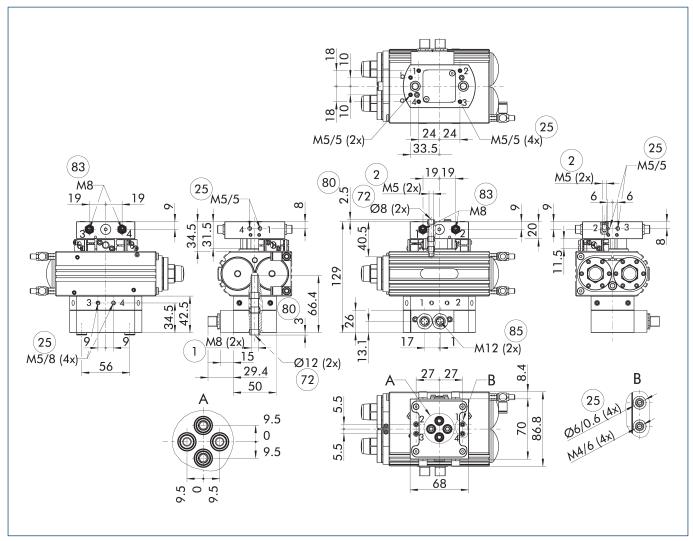
Main view for SRU-plus-D without EDF



- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- 28 Through-hole

- 72) Fit for centering sleeves
- 73 Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

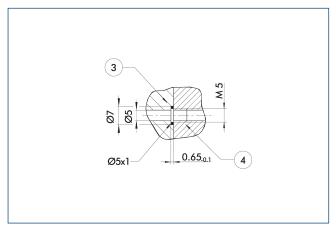


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- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- (83) Input for 3 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 25

Universal swivel unit

Hose-free direct connection M5

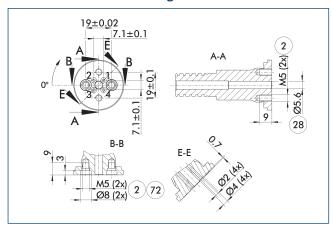


3 Adapter

(4) Rotary unit

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

Pinion with fluid feed-through

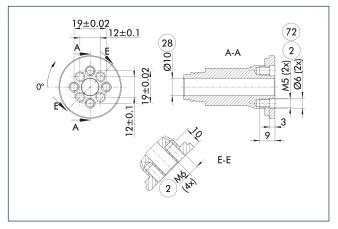


- (2) Attachment connection
- (72) Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram for the fluid feed-through option. The preferred drilling pattern is 2 x screws and 2 x screws with centering sleeve (in \emptyset 8 H7).

① View applicable only for versions without EDF!

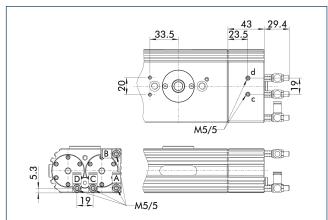
Pinion without fluid feed-through



- 2 Attachment connection
- 72) Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

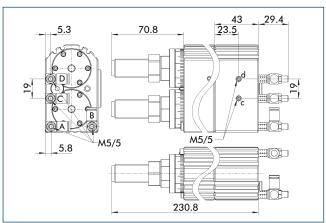
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

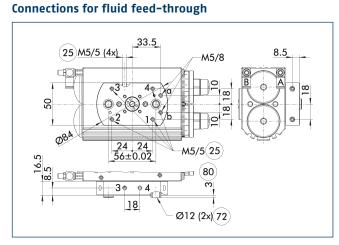
The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

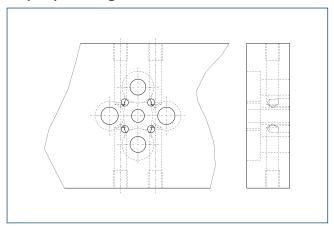


- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25) Fluid feed-through
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

① View applicable only for versions without EDF!

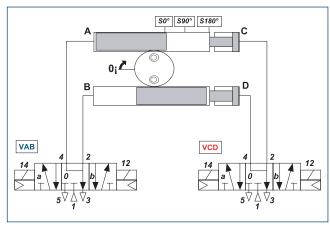
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

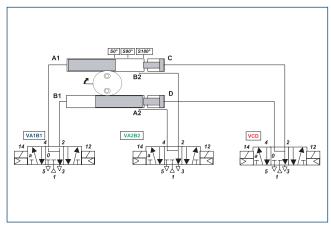
① View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



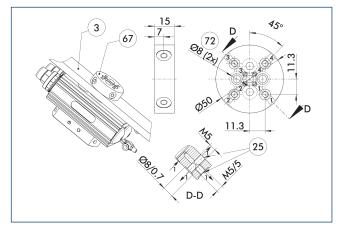
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



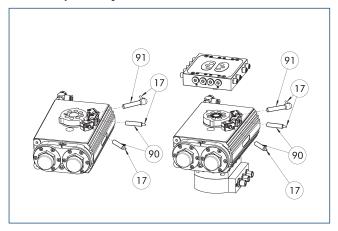
- 3 Adapter
- 25) Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 20/25/30	0357392

(i) View applicable only for versions without EDF!

Inductive proximity switches



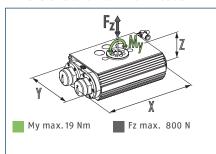
- $\widehat{17}$ Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

IN 80-S-M12 0301578 IN 80-S-M8 0301478 IN-C 80-S-M8-PNP 0301475 INK 80-S 0301550 INK 80-SL 0301579 Inductive proximity switch with lateral cable outlet IN 80-S-M8-SA 0301587 IN 80-S-M8-SA 0301587 IN 80-S-M8-SA 0301483 INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0200-PNP 0301597 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301597 Sensor distributor V2-M12 0301776 • V2-M8 0301775 • V4-M8 0301776 • V4-M8 0301775 • W4-M8 0301776 • V4-M8 0301775	Description	ID	Often combined					
IN 80-5-M8 IN-C 80-5-M8-PNP INK 80-5 INK 80-5 INK 80-5L INK 80-5L INK 80-5L INK 80-5L INK 80-5L INK 80-5N12-5A IN 80-5-M8-PNP IN 80-5-M8-SA INK 80-5-M8-SA INK 80-5-SA INK 80-5-SA INK 80-5-SA INK 80-5-SA INK 80-5-DNP IN 80-5-M8-SA INK 80-5-SA INK	Inductive proximity switch							
IN-C 80-S-M8-PNP 0301475 INK 80-S 0301550 INK 80-SL 0301579 Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA 0301587	IN 80-S-M12	0301578						
INK 80-S INK 80-SL INK 80-SL INGUCTIVE PROXIMITY SWITCH WITH lateral cable outlet IN 80-S-M12-SA IN 80-S-M12-SA IN 80-S-M8-SA INK 80-S-SA	IN 80-S-M8	0301478	•					
INK 80-SL 0301579 Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA 0301587 ● IN 80-S-M8-SA 0301483 ● INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 ● KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0030-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0030-PNP 0301597 Sensor distributor V2-M12 0301775 ● V4-M8 0301775	IN-C 80-S-M8-PNP	0301475						
Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA IN 80-S-M8-SA IN 80-S-M8-SA IN 80-S-M8-SA IN 80-S-SA Connection cables KA BG08-L 3P-0300-PNP KA BG08-L 3P-0500-PNP IN 80-S-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-	INK 80-S	0301550						
IN 80-S-M12-SA 0301587 IN 80-S-M8-SA 0301483 INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BW08-SG08 3P-0030-PNP 0301998 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0200-PNP 0301496 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301775 V4-M8 0301775 V4-M8 0301775	INK 80-SL	0301579						
IN 80-S-M8-SA 0301483	Inductive proximity switch with la	teral cable ou	tlet					
INK 80-S-SA	IN 80-S-M12-SA	0301587	•					
Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG08-L 3P-0500-PNP 03016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0000-PNP 0301496 KV BW08-SG08 3P-0000-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0000-PNP 0301596 KV BW12-SG12 3P-0000-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	IN 80-S-M8-SA	0301483	•					
KA BG08−L 3P−0300−PNP 0301622 KA BG08−L 3P−0500−PNP 0301623 KA BG12−L 3P−0500−PNP 30016369 KA BW08−L 3P−0300−PNP 0301594 KA BW08−L 3P−0500−PNP 0301502 KA BW12−L 3P−0300−PNP 0301503 KA BW12−L 3P−0500−PNP 0301507 Clip for connector/socket CLI−M12 0301464 CLI−M8 0301463 Cable extension KV BG12−SG12 3P−0030−PNP 0301999 KV BG12−SG12 3P−0060−PNP 0301998 KV BW08−SG08 3P−0030−PNP 0301495 KV BW08−SG08 3P−0100−PNP 0301496 KV BW08−SG08 3P−0200−PNP 0301497 KV BW12−SG12 3P−0030−PNP 0301595 KV BW12−SG12 3P−0100−PNP 0301596 KV BW12−SG12 3P−0200−PNP 0301597 Sensor distributor V2−M12 0301776 V2−M8 0301775 • V4−M8	INK 80-S-SA	0301566						
KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301776 V4-M8 0301746	Connection cables							
KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 • V4-M8 0301746	KA BG08-L 3P-0300-PNP	0301622	•					
KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301507 Clip for connector/socket 0301464 CLI-M12 0301463 Cable extension 0301463 KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KA BG08-L 3P-0500-PNP	0301623						
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KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket 0301464 CLI-M12 0301463 Cable extension 0301463 KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KA BW08-L 3P-0500-PNP	0301502						
CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	KA BW12-L 3P-0300-PNP	0301503						
CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	KA BW12-L 3P-0500-PNP	0301507						
CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	Clip for connector/socket							
Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	CLI-M12	0301464						
KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	CLI-M8	0301463						
KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301776 V4-M8 0301746	Cable extension							
KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KV BG12-SG12 3P-0030-PNP	0301999						
KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KV BG12-SG12 3P-0060-PNP	0301998						
KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW08-SG08 3P-0030-PNP	0301495						
KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KV BW08-SG08 3P-0100-PNP	0301496						
KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW08-SG08 3P-0200-PNP	0301497	•					
KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor 0301776 V2-M12 0301775 V2-M8 0301775 V4-M8 0301746	KV BW12-SG12 3P-0030-PNP	0301595						
Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW12-SG12 3P-0100-PNP	0301596						
V2-M12 0301776	KV BW12-SG12 3P-0200-PNP	0301597						
V2-M8 0301775 ● V4-M8 0301746	Sensor distributor							
V4-M8 0301746	V2-M12	0301776	•					
	V2-M8	0301775	•					
V8-M8 0301751	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.



Dimensions and maximum loads

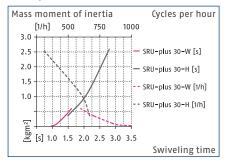


The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

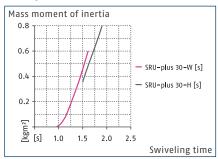
Technical data SRU-plus-D without center position

Designation (soft damping)		SRU-plus-D 30-W-90-3-AS	SRU-plus-D 30-W-180-3-AS
ID		1359345	1359548
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	90.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	9.5	9.5
Number of intermediate positions		none	none
IP protection class		67	67
Weight	[kg]	2.4	2.4
Fluid consumption (2x nom. angle)	[cm³]	90.0	145.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 30-W-90-3-4-AS	SRU-plus-D 30-W-180-3-4-AS
ID		1359540	37361822
Torque	[Nm]	9.0	9.0
Weight	[kg]	2.7	2.7
No. of fluid feed-throughs		4	4
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D 30-W-90-3-4-M8-AS	SRU-plus-D 30-W-180-3-4-M8-AS
ID		37361807	1336508
Weight	[kg]	3.4	3.4

Max. permissible inertia J*



Max. permissible inertia J*

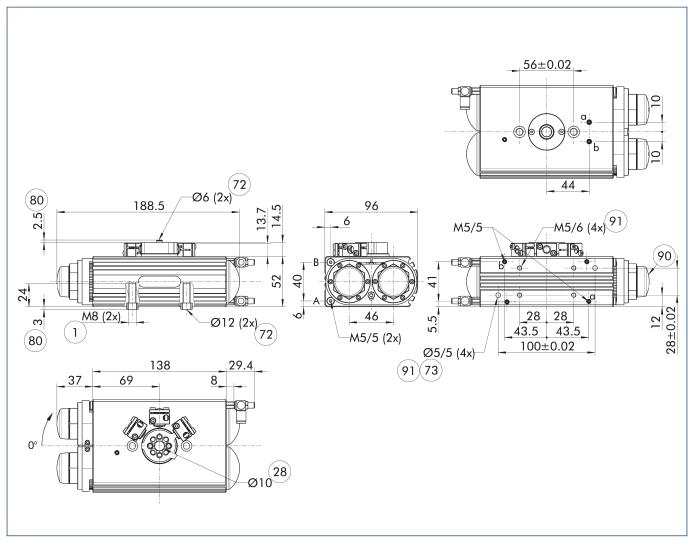


* *The diagrams are valid for basic units and for applications with a vertical swivel axis as well as for absolutely centric loads with a horizontal swivel axis and with an operating pressure of 6 bar. The swiveling times per throttling have to be observed, otherwise the life time may reduce. We will be happy to help you designing other applications. In addition, the SCHUNK Swiveling sizing assistant is available online.

Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 30-W-180-3-M-AS	SRU-plus-D 30-W-180-3-VM-AS	
ID		1359560	1359571	
End position damping		hydr. damper	hydr. damper	
Angle of rotation	[°]	180.0	180.0	
End position adjustability	[°]	3.0	3.0	
Torque	[Nm]	9.5	9.5	
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)	
Adjustability of middle position	[°]	3.0	3.0	
IP protection class		67	67	
Weight	[kg]	3.2	3.4	
Fluid consumption (2x nom. angle)	[cm³]	145.0	145.0	
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5	
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05	
Min./max. ambient temperature	[°C]	5/60	5/60	
Repeat accuracy	[°]	0.05	0.05	
Options with fluid feed-through				
Designation (soft damping)		SRU-plus-D 30-W-180-3-M-4-AS	SRU-plus-D 30-W-180-3-VM-4-AS	
ID		37361832	1359573	
Torque	[Nm]	9.0	9.0	
Weight	[kg]	3.5	3.7	
No. of fluid feed-throughs		4	4	
Options with fluid and electric feed-through				
Designation (soft damping)		SRU-plus-D 30-W-180-3-M-4-M8-AS	SRU-plus-D 30-W-180-3-VM-4-M8-AS	
ID		1359567	1359581	
Weight	[kg]	4.2	4.4	

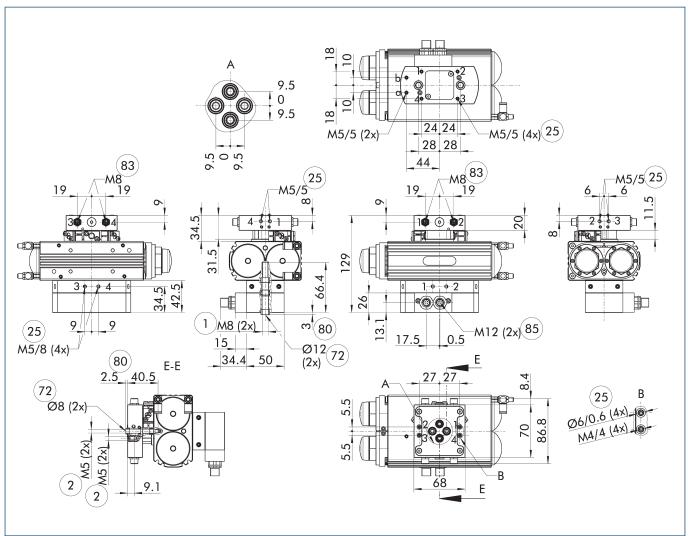
Main view for SRU-plus-D without EDF



- ① The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- 28 Through-hole

- 72) Fit for centering sleeves
- $\overline{\mathbf{73}}$ Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

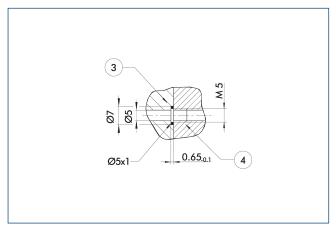


- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- (83) Input for 3 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 30

Universal swivel unit

Hose-free direct connection M5

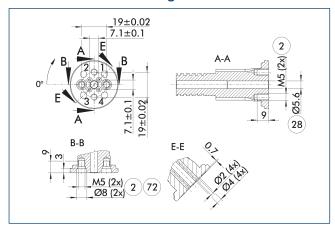


3 Adapter

(4) Rotary unit

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

Pinion with fluid feed-through

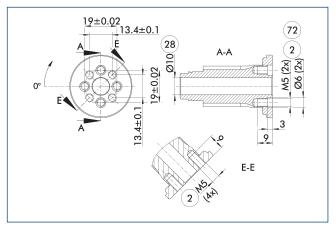


- (2) Attachment connection
- (72) Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram for the fluid feed-through option. The preferred drilling pattern is 2 x screws and 2 x screws with centering sleeve (in \emptyset 8 H7).

① View applicable only for versions without EDF!

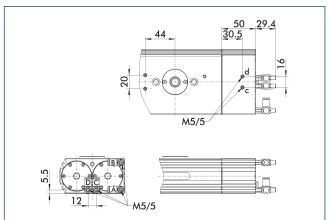
Pinion without fluid feed-through



- (2) Attachment connection
- 72) Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

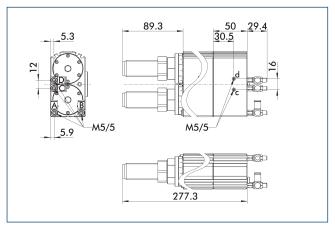
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

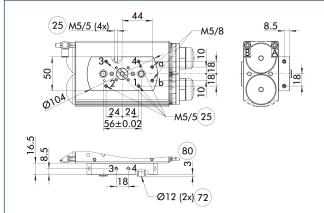
Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

Connections for fluid feed-through

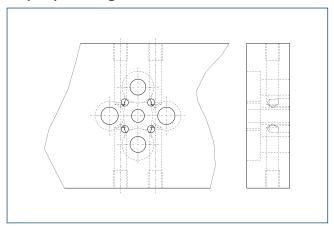


- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

① View applicable only for versions without EDF!

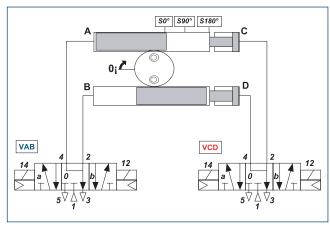
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

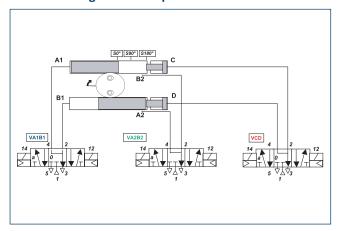
① View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



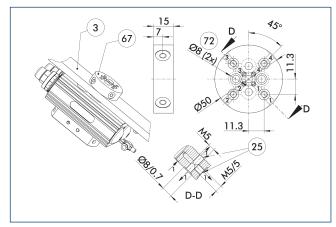
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



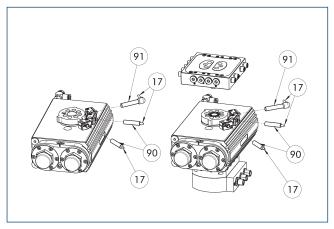
- 3 Adapter
- 25) Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 20/25/30	0357392

(i) View applicable only for versions without EDF!

Inductive proximity switches



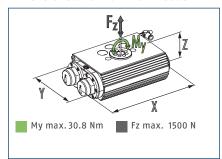
- 17) Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Description	ID	Often combined					
Inductive proximity switch							
IN 80-S-M12	0301578						
IN 80-S-M8	0301478	•					
IN-C 80-S-M8-PNP	0301475						
INK 80-S	0301550						
INK 80-SL	0301579						
Inductive proximity switch with la	teral cable ou	tlet					
IN 80-S-M12-SA	0301587						
IN 80-S-M8-SA	0301483	•					
INK 80-S-SA	0301566						
Connection cables							
KA BG08-L 3P-0300-PNP	0301622	•					
KA BG08-L 3P-0500-PNP	0301623						
KA BG12-L 3P-0500-PNP	30016369						
KA BW08-L 3P-0300-PNP	0301594						
KA BW08-L 3P-0500-PNP	0301502						
KA BW12-L 3P-0300-PNP	0301503						
KA BW12-L 3P-0500-PNP	0301507						
Clip for connector/socket							
CLI-M12	0301464						
CLI-M8	0301463						
Cable extension							
KV BG12-SG12 3P-0030-PNP	0301999						
KV BG12-SG12 3P-0060-PNP	0301998						
KV BW08-SG08 3P-0030-PNP	0301495						
KV BW08-SG08 3P-0100-PNP	0301496						
KV BW08-SG08 3P-0200-PNP	0301497	•					
KV BW12-SG12 3P-0030-PNP	0301595						
KV BW12-SG12 3P-0100-PNP	0301596						
KV BW12-SG12 3P-0200-PNP	0301597						
Sensor distributor							
V2-M12	0301776	•					
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.



Dimensions and maximum loads

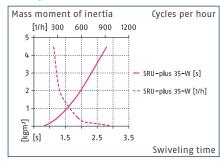


The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

Technical data SRU-plus-D without center position

Designation (soft damping)		SRU-plus-D 35-W-90-3-AS	SRU-plus-D 35-W-180-3-AS		
ID		37362000	37362020		
End position damping		hydr. damper	hydr. damper		
Angle of rotation	[°]	90.0	180.0		
End position adjustability	[°]	3.0	3.0		
Torque	[Nm]	14.0	14.0		
Number of intermediate positions		none	none		
IP protection class		67	67		
Weight	[kg]	2.65	2.65		
Fluid consumption (2x nom. angle)	[cm³]	132.0	216.0		
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8		
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05		
Min./max. ambient temperature	[°C]	5/60	5/60		
Repeat accuracy	[°]	0.05	0.05		
Options with fluid feed-through					
Designation (soft damping)		SRU-plus-D 35-W-90-3-4-AS	SRU-plus-D 35-W-180-3-4-AS		
ID		37362002	37362022		
Torque	[Nm]	13.4	13.4		
Weight	[kg]	2.95	2.95		
No. of fluid feed-throughs		4	4		
Options with fluid and electric feed-through					
Designation (soft damping)		SRU-plus-D 35-W-90-3-4-M8-AS	SRU-plus-D 35-W-180-3-4-M8-AS		
ID		37362007	37362027		
Weight	[kg]	3.7	3.7		

Max. permissible inertia J*

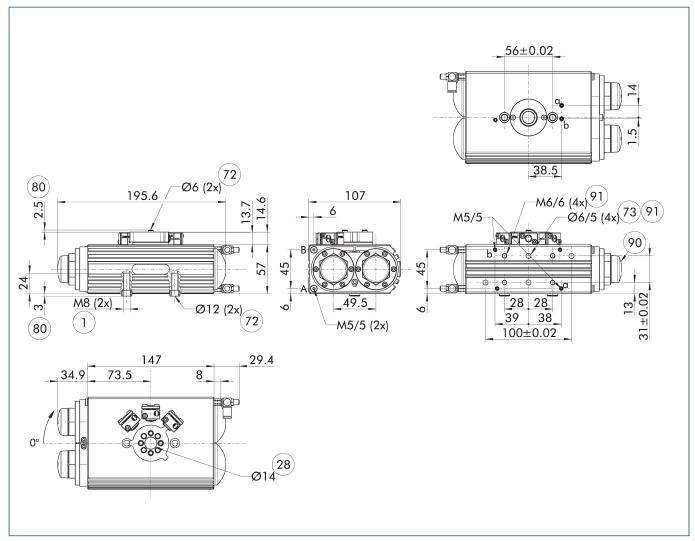


* *The diagrams are valid for basic units and for applications with a vertical swivel axis as well as for absolutely centric loads with a horizontal swivel axis and with an operating pressure of 6 bar. The swiveling times per throttling have to be observed, otherwise the life time may reduce. We will be happy to help you designing other applications. In addition, the SCHUNK Swiveling sizing assistant is available online.

Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 35-W-180-3-M-AS	SRU-plus-D 35-W-180-3-VM-AS		
ID		37362030	37362040		
End position damping		hydr. damper	hydr. damper		
Angle of rotation	[°]	180.0	180.0		
End position adjustability	[°]	3.0	3.0		
Torque	[Nm]	14.0	14.0		
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)		
Adjustability of middle position	[°]	3.0	3.0		
IP protection class		67	67		
Weight	[kg]	3.65	4.15		
Fluid consumption (2x nom. angle)	[cm³]	216.0	216.0		
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5		
Diameter of connecting hose		6 x 3.9 x 1.05	6 x 3.9 x 1.05		
Min./max. ambient temperature	[°C]	5/60	5/60		
Repeat accuracy	[°]	0.05	0.05		
Options with fluid feed-through					
Designation (soft damping)		SRU-plus-D 35-W-180-3-M-4-AS	SRU-plus-D 35-W-180-3-VM-4-AS		
ID		37362032	37362042		
Torque	[Nm]	13.4	13.4		
Weight	[kg]	3.95	4.45		
No. of fluid feed-throughs		4	4		
Options with fluid and electric feed-through					
Designation (soft damping)		SRU-plus-D 35-W-180-3-M-4-M8-AS	SRU-plus-D 35-W-180-3-VM-4-M8-AS		
ID		37362037	37362047		
Weight	[kg]	4.7	5.2		

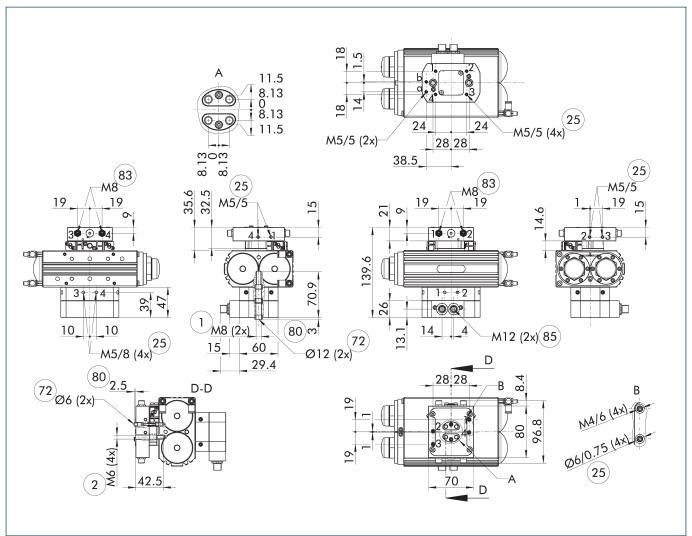
Main view for SRU-plus-D without EDF



- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- 28 Through-hole

- (72) Fit for centering sleeves
- $\overline{\mathbf{73}}$ Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

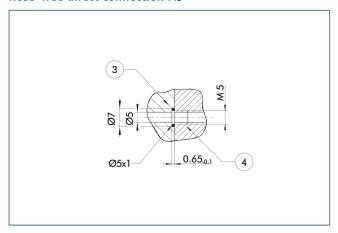


- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 1 Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- (83) Input for 3 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 35

Universal swivel unit

Hose-free direct connection M5

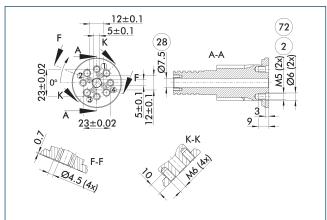


3 Adapter

(4) Rotary unit

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

Pinion with fluid feed-through

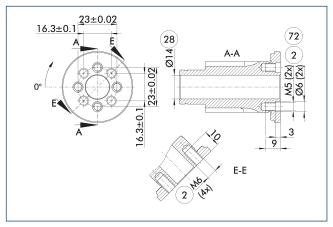


- 2 Attachment connection
- 72 Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram if the option "fluid feed-through" was chosen. The preferred drilling pattern is two screws and two screws with a centering sleeve.

(i) View applicable only for versions without EDF!

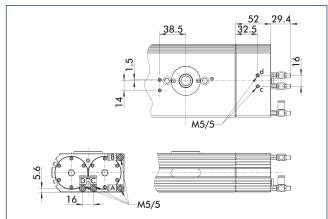
Pinion without fluid feed-through



- (2) Attachment connection
- 72) Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

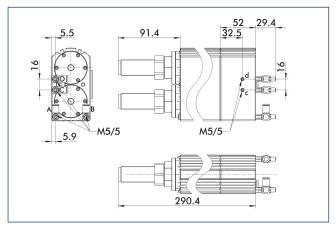
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

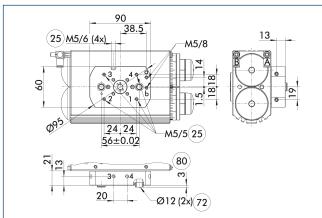
Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

Connections for fluid feed-through

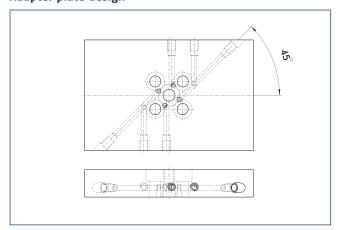


- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25) Fluid feed-through
- 72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

① View applicable only for versions without EDF!

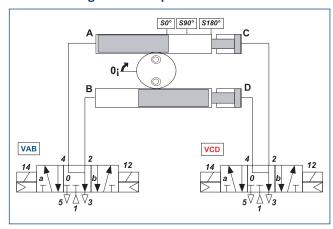
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

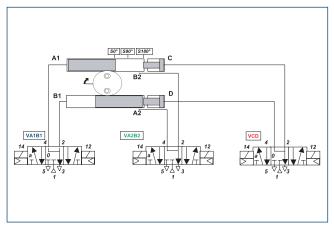
① View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



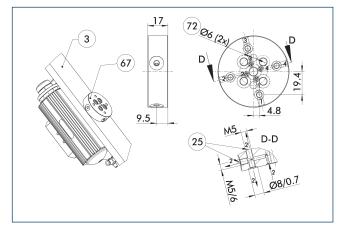
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



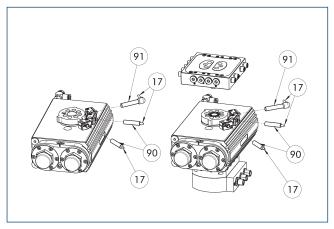
- 3 Adapter
- 25 Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 35	0357792

(i) View applicable only for versions without EDF!

Inductive proximity switches



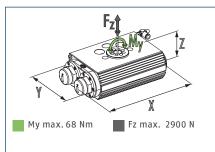
- $\widehat{17}$ Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Description	ID	Often combined				
Inductive proximity switch						
IN 80-S-M12	0301578					
IN 80-S-M8	0301478	•				
IN-C 80-S-M8-PNP	0301475					
INK 80-S	0301550					
INK 80-SL	0301579					
Inductive proximity switch with la	teral cable ou	tlet				
IN 80-S-M12-SA	0301587					
IN 80-S-M8-SA	0301483	•				
INK 80-S-SA	0301566					
Connection cables						
KA BG08-L 3P-0300-PNP	0301622	•				
KA BG08-L 3P-0500-PNP	0301623					
KA BG12-L 3P-0500-PNP	30016369					
KA BW08-L 3P-0300-PNP	0301594					
KA BW08-L 3P-0500-PNP	0301502					
KA BW12-L 3P-0300-PNP	0301503					
KA BW12-L 3P-0500-PNP	0301507					
Clip for connector/socket						
CLI-M12	0301464					
CLI-M8	0301463					
Cable extension						
KV BG12-SG12 3P-0030-PNP	0301999					
KV BG12-SG12 3P-0060-PNP	0301998					
KV BW08-SG08 3P-0030-PNP	0301495					
KV BW08-SG08 3P-0100-PNP	0301496					
KV BW08-SG08 3P-0200-PNP	0301497	•				
KV BW12-SG12 3P-0030-PNP	0301595					
KV BW12-SG12 3P-0100-PNP	0301596					
KV BW12-SG12 3P-0200-PNP	0301597					
Sensor distributor						
V2-M12	0301776	•				
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.



Dimensions and maximum loads



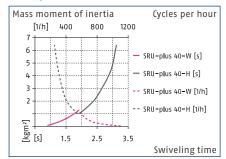
The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

Technical data SRU-plus-D without center position

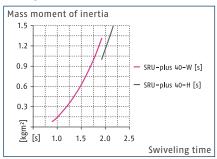
Designation (soft damping)		SRU-plus-D 40-W-90-3-AS	SRU-plus-D 40-W-180-3-AS
ID		37362200	37362220
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	90.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	20.0	20.0
Number of intermediate positions		none	none
IP protection class		67	67
Weight	[kg]	4.2	4.2
Fluid consumption (2x nom. angle)	[cm³]	208.0	336.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8
Diameter of connecting hose		8 x 6 x 1	8 x 6 x 1
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 40-W-90-3-8-AS	SRU-plus-D 40-W-180-3-8-AS
ID		37362202	37362222
Torque	[Nm]	19.2	19.2
Weight	[kg]	4.9	4.9
No. of fluid feed-throughs		8	8
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D1 40-W-90-3-8-M12-AS	SRU-plus-D1 40-W-180-3-8-M12-AS
ID		1001682	1001684
Weight	[kg]	6.45	6.45

① All units are also available in an FKM version. Please contact us for details.

Max. permissible inertia J*



Max. permissible inertia J*



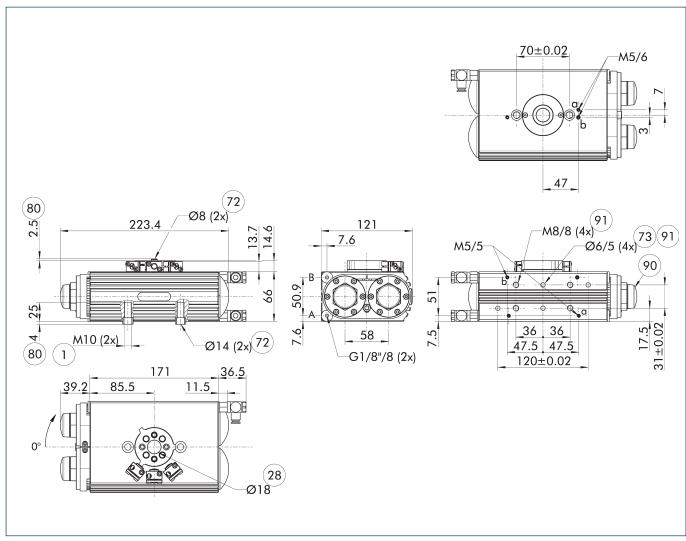
* *The diagrams are valid for basic units and for applications with a vertical swivel axis as well as for absolutely centric loads with a horizontal swivel axis and with an operating pressure of 6 bar. The swiveling times per throttling have to be observed, otherwise the life time may reduce. We will be happy to help you designing other applications. In addition, the SCHUNK Swiveling sizing assistant is available online.

Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 40-W-180-3-M-AS	SRU-plus-D 40-W-180-3-VM-AS
ID		37362230	37362240
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	180.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	20.0	20.0
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)
Adjustability of middle position	[°]	3.0	3.0
IP protection class		67	67
Weight	[kg]	5.5	6.5
Fluid consumption (2x nom. angle)	[cm³]	336.0	336.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5
Diameter of connecting hose		8 x 6 x 1	8 x 6 x 1
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 40-W-180-3-M-8-AS	SRU-plus-D 40-W-180-3-VM-8-AS
ID		37362232	37362242
Torque	[Nm]	19.2	19.2
Weight	[kg]	6.2	7.2
No. of fluid feed-throughs		8	8
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D1 40-W-180-3-M-8-M12-AS	SRU-plus-D1 40-W-180-3-VM-8-M12-AS
ID		1001686	1001688
Weight	[kg]	7.75	8.75

① All units are also available in an FKM version. Please contact us for details.

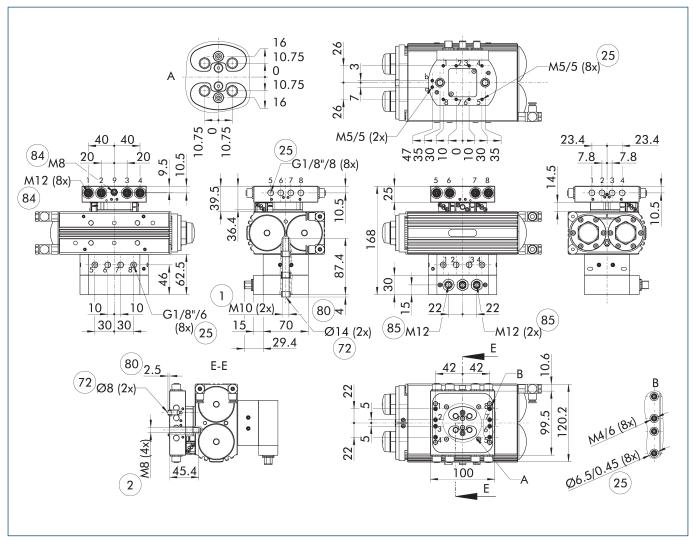
Main view for SRU-plus-D without EDF



- ① The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 1 Connection swivel unit
- 28 Through-hole

- (72) Fit for centering sleeves
- $\overline{\mathbf{73}}$ Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

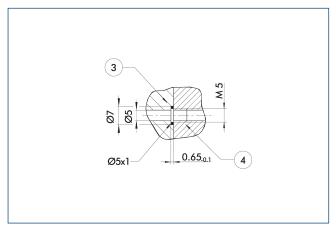


- ① The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 84 Input for 4 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 40

Universal swivel unit

Hose-free direct connection M5

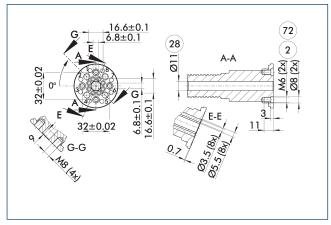


3 Adapter

(4) Rotary unit

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

Pinion with fluid feed-through

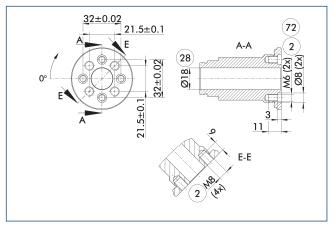


- 2 Attachment connection
- 72 Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram if the option "fluid feed-through" was chosen. The preferred drilling pattern is two screws and two screws with a centering sleeve.

(i) View applicable only for versions without EDF!

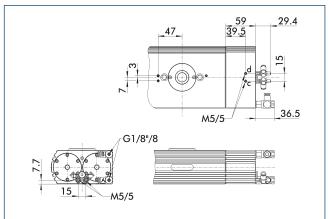
Pinion without fluid feed-through



- (2) Attachment connection
- (72) Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

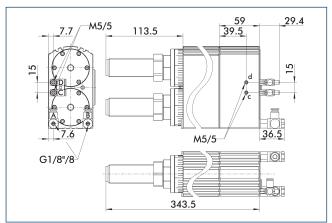
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

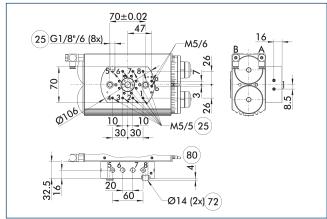
Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

Connections for fluid feed-through

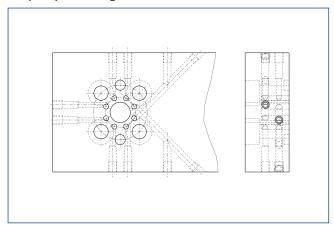


- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

① View applicable only for versions without EDF!

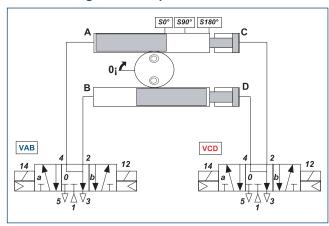
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

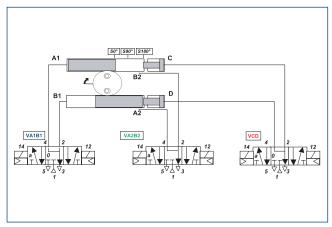
① View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



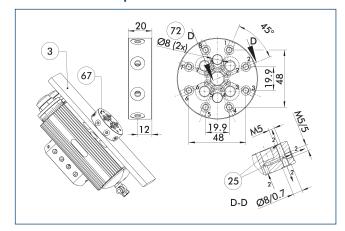
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



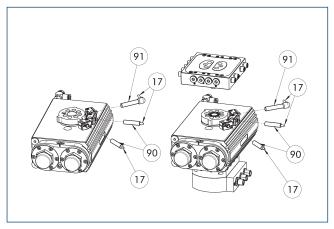
- 3 Adapter
- 25 Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 40	0357992

(i) View applicable only for versions without EDF!

Inductive proximity switches



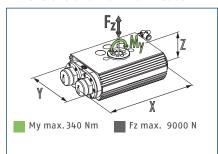
- $\widehat{17}$ Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Description	ID	Often combined				
Inductive proximity switch						
IN 80-S-M12	0301578					
IN 80-S-M8	0301478	•				
IN-C 80-S-M8-PNP	0301475					
INK 80-S	0301550					
INK 80-SL	0301579					
Inductive proximity switch with la	teral cable ou	tlet				
IN 80-S-M12-SA	0301587					
IN 80-S-M8-SA	0301483	•				
INK 80-S-SA	0301566					
Connection cables						
KA BG08-L 3P-0300-PNP	0301622	•				
KA BG08-L 3P-0500-PNP	0301623					
KA BG12-L 3P-0500-PNP	30016369					
KA BW08-L 3P-0300-PNP	0301594					
KA BW08-L 3P-0500-PNP	0301502					
KA BW12-L 3P-0300-PNP	0301503					
KA BW12-L 3P-0500-PNP	0301507					
Clip for connector/socket						
CLI-M12	0301464					
CLI-M8	0301463					
Cable extension						
KV BG12-SG12 3P-0030-PNP	0301999					
KV BG12-SG12 3P-0060-PNP	0301998					
KV BW08-SG08 3P-0030-PNP	0301495					
KV BW08-SG08 3P-0100-PNP	0301496					
KV BW08-SG08 3P-0200-PNP	0301497	•				
KV BW12-SG12 3P-0030-PNP	0301595					
KV BW12-SG12 3P-0100-PNP	0301596					
KV BW12-SG12 3P-0200-PNP	0301597					
Sensor distributor						
V2-M12	0301776	•				
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.



Dimensions and maximum loads



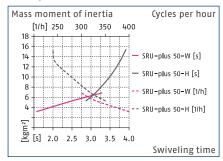
The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

Technical data SRU-plus-D without center position

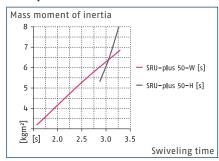
Designation (soft damping)		SRU-plus-D 50-W-90-3-AS	SRU-plus-D 50-W-180-3-AS
ID		37362600	37362620
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	90.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	52.0	52.0
Number of intermediate positions		none	none
IP protection class		67	67
Weight	[kg]	9.4	9.4
Fluid consumption (2x nom. angle)	[cm³]	448.0	776.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8
Diameter of connecting hose		8 x 6 x 1	8 x 6 x 1
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 50-W-90-3-8-AS	SRU-plus-D 50-W-180-3-8-AS
ID		37362602	37362622
Torque	[Nm]	50.3	50.3
Weight	[kg]	9.6	9.6
No. of fluid feed-throughs		8	8
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D1 50-W-90-3-8-M12-AS	SRU-plus-D1 50-W-180-3-8-M12-AS
ID		1001707	1001709
Weight	[kg]	11.55	11.55

① All units are also available in an FKM version. Please contact us for details.

Max. permissible inertia J*



Max. permissible inertia J*



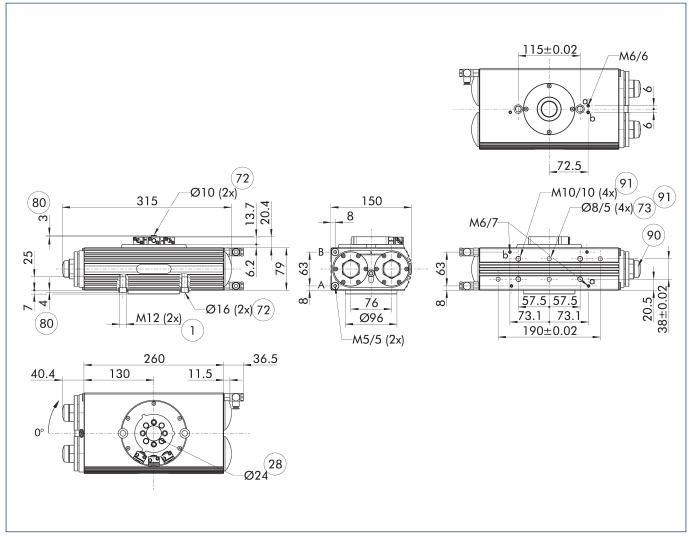
* *The diagrams are valid for basic units and for applications with a vertical swivel axis as well as for absolutely centric loads with a horizontal swivel axis and with an operating pressure of 6 bar. The swiveling times per throttling have to be observed, otherwise the life time may reduce. We will be happy to help you designing other applications. In addition, the SCHUNK Swiveling sizing assistant is available online.

Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 50-W-180-3-M-AS	SRU-plus-D 50-W-180-3-VM-AS
ID		37362630	37362640
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	180.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	52.0	52.0
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)
Adjustability of middle position	[°]	3.0	3.0
IP protection class		67	67
Weight	[kg]	12.2	12.8
Fluid consumption (2x nom. angle)	[cm³]	776.0	776.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5
Diameter of connecting hose		8 x 6 x 1	8 x 6 x 1
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 50-W-180-3-M-8-AS	SRU-plus-D 50-W-180-3-VM-8-AS
ID		37362632	37362642
Torque	[Nm]	50.3	50.3
Weight	[kg]	12.4	13
No. of fluid feed-throughs		8	8
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D1 50-W-180-3-M-8-M12-AS	SRU-plus-D1 50-W-180-3-VM-8-M12-AS
ID		1001712	1001714
Weight	[kg]	14.35	14.95

① All units are also available in an FKM version. Please contact us for details.

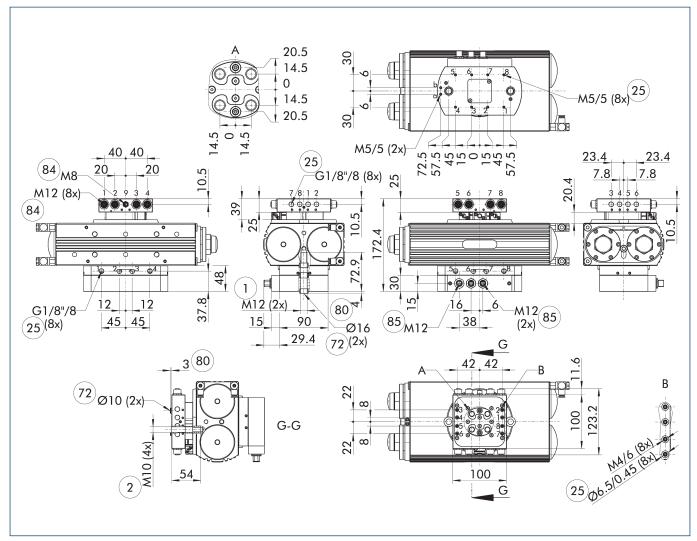
Main view for SRU-plus-D without EDF



- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- 28 Through-hole

- (72) Fit for centering sleeves
- $\overline{\mathbf{73}}$ Fit for centering pins
- 80 Depth of the centering sleeve hole in the counter part
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

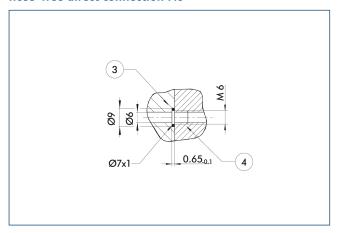


- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- 84 Input for 4 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 50

Universal swivel unit

Hose-free direct connection M6

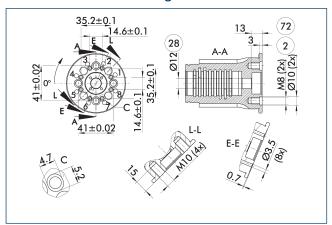


3 Adapter

4 Rotary unit

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

Pinion with fluid feed-through

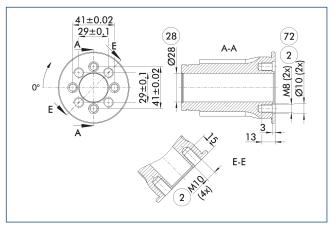


- (2) Attachment connection
- 72 Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram if the option "fluid feed-through" was chosen. The preferred drilling pattern is two screws and two screws with a centering sleeve.

(i) View applicable only for versions without EDF!

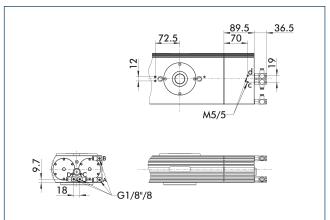
Pinion without fluid feed-through



- 2 Attachment connection
- 72 Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

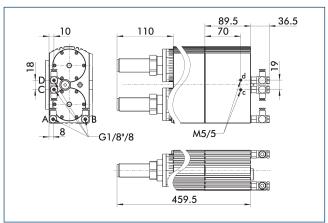
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

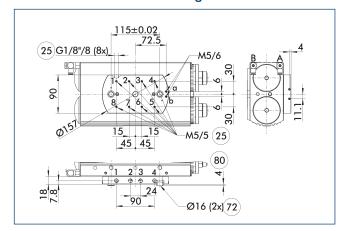
Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

Connections for fluid feed-through

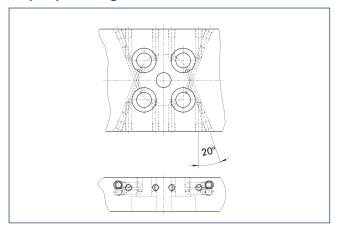


- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25 Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

① View applicable only for versions without EDF!

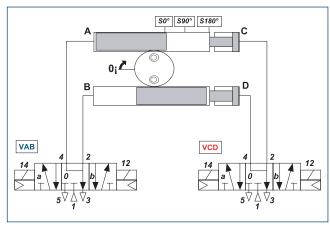
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

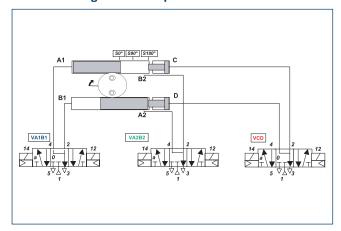
① View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



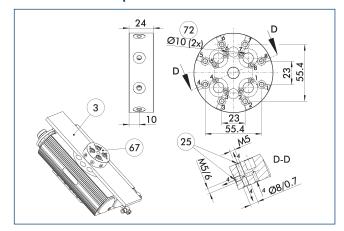
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



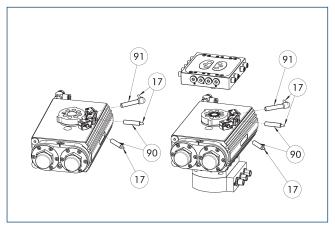
- 3 Adapter
- 25 Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 50/60	0358192

(i) View applicable only for versions without EDF!

Inductive proximity switches



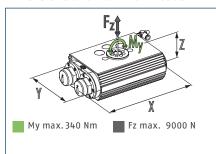
- $\widehat{17}$ Cable outlet
- 91) Sensor IN..-SA
- 90 Sensor IN ...

Description	ID	Often combined				
Inductive proximity switch						
IN 80-S-M12	0301578					
IN 80-S-M8	0301478	•				
IN-C 80-S-M8-PNP	0301475					
INK 80-S	0301550					
INK 80-SL	0301579					
Inductive proximity switch with la	teral cable ou	tlet				
IN 80-S-M12-SA	0301587					
IN 80-S-M8-SA	0301483	•				
INK 80-S-SA	0301566					
Connection cables						
KA BG08-L 3P-0300-PNP	0301622	•				
KA BG08-L 3P-0500-PNP	0301623					
KA BG12-L 3P-0500-PNP	30016369					
KA BW08-L 3P-0300-PNP	0301594					
KA BW08-L 3P-0500-PNP	0301502					
KA BW12-L 3P-0300-PNP	0301503					
KA BW12-L 3P-0500-PNP	0301507					
Clip for connector/socket						
CLI-M12	0301464					
CLI-M8	0301463					
Cable extension						
KV BG12-SG12 3P-0030-PNP	0301999					
KV BG12-SG12 3P-0060-PNP	0301998					
KV BW08-SG08 3P-0030-PNP	0301495					
KV BW08-SG08 3P-0100-PNP	0301496					
KV BW08-SG08 3P-0200-PNP	0301497	•				
KV BW12-SG12 3P-0030-PNP	0301595					
KV BW12-SG12 3P-0100-PNP	0301596					
KV BW12-SG12 3P-0200-PNP	0301597					
Sensor distributor						
V2-M12	0301776	•				
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.



Dimensions and maximum loads



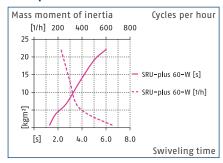
The indicated moments and forces are statical values and may appear simultaneously. Throttling has to be done for ensuring that the rotary movement takes place without impact or bouncing. Otherwise the service life reduces.

Technical data SRU-plus-D without center position

Designation (soft damping)		SRU-plus-D 60-W-90-3-AS	SRU-plus-D 60-W-180-3-AS
ID		37362800	37362820
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	90.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	72.0	72.0
Number of intermediate positions		none	none
IP protection class		67	67
Weight	[kg]	12.8	12.8
Fluid consumption (2x nom. angle)	[cm³]	656.0	1120.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/8
Diameter of connecting hose		8 x 6 x 1	8 x 6 x 1
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 60-W-90-3-8-AS	SRU-plus-D 60-W-180-3-8-AS
ID		37362802	37362822
Torque	[Nm]	70.0	70.0
Weight	[kg]	13	13
No. of fluid feed-throughs		8	8
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D1 60-W-90-3-8-M12-AS	SRU-plus-D1 60-W-180-3-8-M12-AS
ID		1001718	1001719
Weight	[kg]	14.95	14.95

① All units are also available in an FKM version. Please contact us for details.

Max. permissible inertia J*



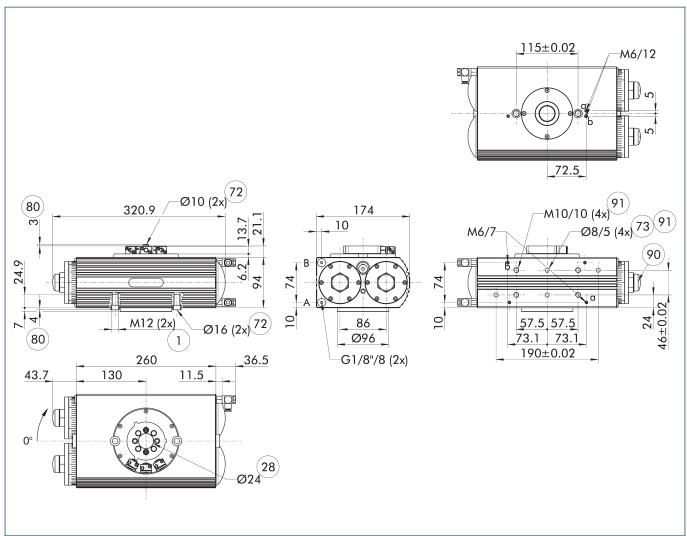
* *The diagrams are valid for basic units and for applications with a vertical swivel axis as well as for absolutely centric loads with a horizontal swivel axis and with an operating pressure of 6 bar. The swiveling times per throttling have to be observed, otherwise the life time may reduce. We will be happy to help you designing other applications. In addition, the SCHUNK Swiveling sizing assistant is available online.

Technical data SRU-plus-D with center position

Designation (soft damping)		SRU-plus-D 60-W-180-3-M-AS	SRU-plus-D 60-W-180-3-VM-AS
ID		37362830	37362840
End position damping		hydr. damper	hydr. damper
Angle of rotation	[°]	180.0	180.0
End position adjustability	[°]	3.0	3.0
Torque	[Nm]	72.0	72.0
Number of intermediate positions		1 x M (pneumatic)	1 x VM (locked)
Adjustability of middle position	[°]	3.0	3.0
IP protection class		67	67
Weight	[kg]	16.8	17.8
Fluid consumption (2x nom. angle)	[cm³]	1120.0	1120.0
Min./nom./max. operating pressure	[bar]	4/6/8	4/6/6.5
Diameter of connecting hose		8 x 6 x 1	8 x 6 x 1
Min./max. ambient temperature	[°C]	5/60	5/60
Repeat accuracy	[°]	0.05	0.05
Options with fluid feed-through			
Designation (soft damping)		SRU-plus-D 60-W-180-3-M-8-AS	SRU-plus-D 60-W-180-3-VM-8-AS
ID		37362832	37362842
Torque	[Nm]	70.0	70.0
Weight	[kg]	17	18
No. of fluid feed-throughs		8	8
Options with fluid and electric feed	-through		
Designation (soft damping)		SRU-plus-D1 60-W-180-3-M-8-M12-AS	SRU-plus-D1 60-W-180-3-VM-8-M12-AS
ID		1001722	1369416
Weight	[kg]	18.95	19.95

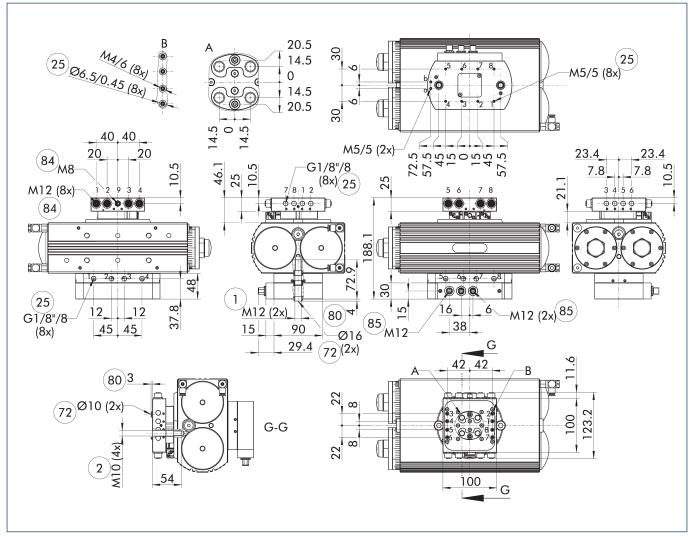
① All units are also available in an FKM version. Please contact us for details.

Main view for SRU-plus-D without EDF



- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- 28 Through-hole
- 72) Fit for centering sleeves
- 73) Fit for centering pins
- $\overline{\hat{1}}$ Connection swivel unit
- 90 Cover caps
- (91) Not intended for mounting the unit, only for attachments

Main view for SRU-plus-D with EDF

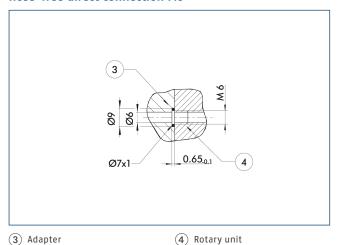


- The SDV-P pressure maintenance valve can be used to maintain the position in the case of a loss of pressure (see "Accessories" catalog section).
- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- (1) Connection swivel unit
- (2) Attachment connection
- 25) Fluid feed-through
- 72 Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part
- (83) Input for 3 pole sensor feed-through
- (85) Sensor feed-through output

SRU-plus-D 60

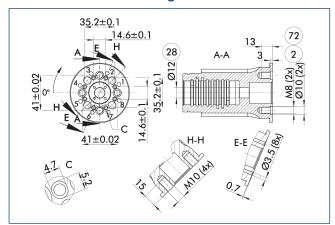
Universal swivel unit

Hose-free direct connection M6



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

Pinion with fluid feed-through

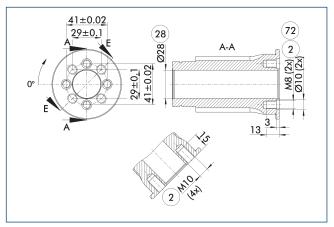


- 2 Attachment connection
- 72 Fit for centering sleeves
- 28 Through-hole

Pinion screw connection diagram if the option "fluid feed-through" was chosen. The preferred drilling pattern is two screws and two screws with a centering sleeve.

(i) View applicable only for versions without EDF!

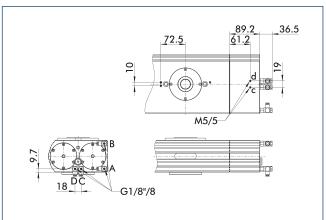
Pinion without fluid feed-through



- (2) Attachment connection
- (72) Fit for centering sleeves
- 28 Through-hole

Mounting pattern for fastening the rotating load to the pinion. The "4x large threads for 4 screws and 2 counter bores for centering sleeves" option is preferable to the "4x small threads for 2 screws and 2 shoulder bots (in the deeper counter bores)" option.

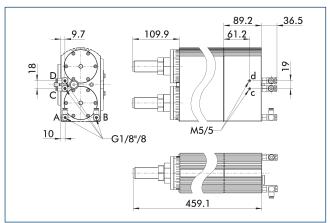
Pneumatic middle position (M)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "pneumatic center position (M)" option compared to the basic variant. Heavy attachments may swing before they reach the final position. The locked middle position (VM) can resolve this.

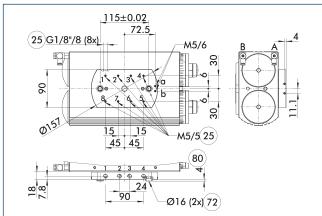
Locked middle position (VM)



- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- C, c Main / direct connection, middle position
- D, d Main / direct connection, middle position

The drawing shows the change in dimension of the "locked center position (VM)" option compared to the basic variant. The middle position is locked and is actuated with the force of the main drive piston. Shock absorbers dampen the travel to the middle position and prevent overshooting.

Connections for fluid feed-through

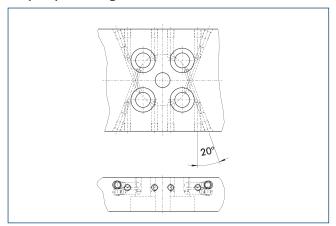


- A, a Main / direct connection, rotary actuator rotates clockwise
- B, b Main / direct connection, rotary actuator rotates counterclockwise
- 25) Fluid feed-through
- (72) Fit for centering sleeves
- 80 Depth of the centering sleeve hole in the counter part

Lower mounting plate for the fluid feed-through option. Vacuum, gases or fluids can be fed through. The connection may be a screw type or a direct connection.

① View applicable only for versions without EDF!

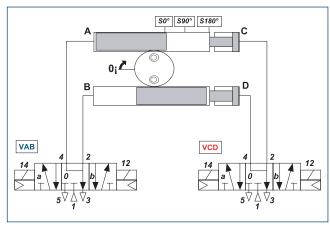
Adapter plate design



Suggested here is an adapter plate design which allows for all fluid feed-throughs to be accessed as easily as possible.

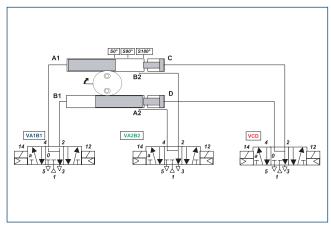
① View applicable only for versions without EDF!

Pneumatic diagram of SRU-plus-VM — vertical axis



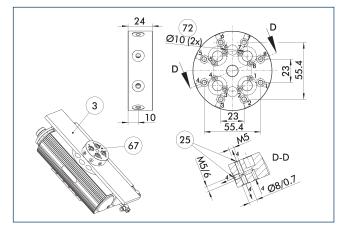
VM rotary actuators with a vertical rotary axis are generally actuated by two 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Pneumatic diagram of SRU-plus-VM — horizontal axis



VM rotary actuators with a horizontal or non-vertical rotary axis must generally be actuated by three 5/3 directional control valves with an exhausted middle position. To prevent damage, it is essential to pay attention to the actuation sequence indicated in the operating manual.

Distributor for SRU-plus



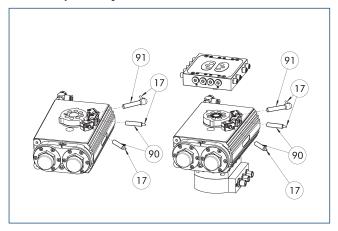
- 3 Adapter
- 25 Fluid feed-through
- 67 Distributor for media feed-through
- (72) Fit for centering sleeves

The distributor for SRU-plus facilitates the use of the fluid feed-throughs, both at the direct attachment to the distributor, and in the lines conveying the fluid inside the adapter plate. Due to the distributor, only a simple drilling pattern has to be drilled in the adapter plate located between the pinion and the distributor.

Description	ID
Distributor plate	
V-SRU-plus 50/60	0358192

① View applicable only for versions without EDF!

Inductive proximity switches



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

IN 80-S-M12 0301578 IN 80-S-M8 0301478 IN-C 80-S-M8-PNP 0301475 INK 80-S 0301550 INK 80-SL 0301579 Inductive proximity switch with lateral cable outlet IN 80-S-M8-SA 0301587 IN 80-S-M8-SA 0301587 IN 80-S-M8-SA 0301483 INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 03016369 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301500 KA BW12-L 3P-0500-PNP 0301500 KA BW12-L 3P-0500-PNP 0301500 KA BW12-L 3P-0500-PNP 0301500 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BW08-SG08 3P-0100-PNP 0301998 KV BW08-SG08 3P-0200-PNP 0301497 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 • V4-M8 0301775 • W4-M8 0301775 • W4-M8 0301775	Description	ID	Often combined		
IN 80-5-M8 IN-C 80-5-M8-PNP INK 80-5 INK 80-5 INK 80-5L INK 80-5L INK 80-5L INK 80-5L INK 80-5L INK 80-5N12-5A IN 80-5-M8-PNP IN 80-5-M8-SA INK 80-5-M8-SA INK 80-5-SA INK 80-5-SA INK 80-5-SA INK 80-5-SA INK 80-5-DNP INT 80-5-M8-SA INK 80-5-SA INK 808-L 3P-0300-PNP INT 80-652 INK 808-L 3P-0500-PNP INT 80-652 INK 808-S612-S612 3P-0030-PNP INT 80-652 INK 808-S612 3P-0030-PNP INT 80-652 INK 808-S608 3P-0200-PNP INT 80-652 INK 808-S608 3P-0200-PNP INT 80-652 INK 808-S612 3P-0300-PNP INT 80-652 INT 80-	Inductive proximity switch				
IN-C 80-S-M8-PNP 0301475 INK 80-S 0301550 INK 80-SL 0301579 Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA 0301587 IN 80-S-M8-SA 0301483 ● INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 ● KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301599 KV BW08-SG08 3P-0200-PNP 0301495 KV BW08-SG08 3P-0200-PNP 0301497 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301597 Sensor distributor V2-M12 0301775 ● V4-M8 0301775	IN 80-S-M12	0301578			
INK 80-S INK 80-SL INK 80-SL ING 80-S-M12-SA INK 80-S-M12-SA INK 80-S-M8-SA INK 80-S-M8-SA INK 80-S-SA INK 80-S-S	IN 80-S-M8	0301478	•		
INK 80-SL 0301579 Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA 0301587 IN 80-S-M8-SA 0301483 INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0030-PNP 0301999 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0030-PNP 0301597 Sensor distributor V2-M12 0301775 V2-M8 0301775 V4-M8 0301775	IN-C 80-S-M8-PNP	0301475			
Inductive proximity switch with lateral cable outlet IN 80-S-M12-SA IN 80-S-M8-SA IN 80-S-M8-SA IN 80-S-M8-SA IN 80-S-SA Connection cables KA BG08-L 3P-0300-PNP KA BG08-L 3P-0500-PNP IN 80-S-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-M8-	INK 80-S	0301550			
IN 80-S-M12-SA 0301587 IN 80-S-M8-SA 0301483 INK 80-S-SA 0301566 Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BW08-SG08 3P-0030-PNP 0301998 KV BW08-SG08 3P-0100-PNP 0301495 KV BW08-SG08 3P-0200-PNP 0301496 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301775 V4-M8 0301775 V4-M8 0301775	INK 80-SL	0301579			
IN 80-S-M8-SA 0301483	Inductive proximity switch with lateral cable outlet				
INK 80-S-SA	IN 80-S-M12-SA	0301587			
Connection cables KA BG08-L 3P-0300-PNP 0301622 KA BG08-L 3P-0500-PNP 0301623 KA BG08-L 3P-0500-PNP 03016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0000-PNP 0301496 KV BW08-SG08 3P-0000-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0000-PNP 0301596 KV BW12-SG12 3P-0000-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	IN 80-S-M8-SA	0301483	•		
KA BG08−L 3P−0300−PNP 0301622 KA BG08−L 3P−0500−PNP 0301623 KA BG12−L 3P−0500−PNP 30016369 KA BW08−L 3P−0300−PNP 0301594 KA BW08−L 3P−0500−PNP 0301502 KA BW12−L 3P−0300−PNP 0301503 KA BW12−L 3P−0500−PNP 0301507 Clip for connector/socket CLI−M12 0301464 CLI−M8 0301463 Cable extension KV BG12−SG12 3P−0030−PNP 0301999 KV BG12−SG12 3P−0060−PNP 0301998 KV BW08−SG08 3P−0030−PNP 0301495 KV BW08−SG08 3P−0100−PNP 0301496 KV BW08−SG08 3P−0200−PNP 0301497 KV BW12−SG12 3P−0030−PNP 0301595 KV BW12−SG12 3P−0100−PNP 0301596 KV BW12−SG12 3P−0200−PNP 0301597 Sensor distributor V2−M12 0301776 V2−M8 0301775 • V4−M8	INK 80-S-SA	0301566			
KA BG08-L 3P-0500-PNP 0301623 KA BG12-L 3P-0500-PNP 30016369 KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket CLI-M12 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301776 V4-M8 0301746	Connection cables				
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KA BW08-L 3P-0300-PNP 0301594 KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301507 Clip for connector/socket 0301464 CLI-M12 0301463 Cable extension 0301463 KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KA BG08-L 3P-0500-PNP	0301623			
KA BW08-L 3P-0500-PNP 0301502 KA BW12-L 3P-0300-PNP 0301507 Clip for connector/socket CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 • V4-M8 0301746	KA BG12-L 3P-0500-PNP	30016369			
KA BW12-L 3P-0300-PNP 0301503 KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket 0301464 CLI-M12 0301463 Cable extension 0301463 KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301497 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor 0301776 V2-M12 0301775 V2-M8 0301776 V4-M8 0301746	KA BW08-L 3P-0300-PNP	0301594			
KA BW12-L 3P-0500-PNP 0301507 Clip for connector/socket 0301464 CLI-M12 0301463 Cable extension 0301463 KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 V2-M8 0301775 V4-M8 0301746	KA BW08-L 3P-0500-PNP	0301502			
CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	KA BW12-L 3P-0300-PNP	0301503			
CLI-M12 0301464 CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	KA BW12-L 3P-0500-PNP	0301507			
CLI-M8 0301463 Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301497 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 V2-M8 0301775 V4-M8 0301746	Clip for connector/socket				
Cable extension KV BG12-SG12 3P-0030-PNP 0301999 KV BG12-SG12 3P-0060-PNP 0301998 KV BW08-SG08 3P-0030-PNP 0301495 KV BW08-SG08 3P-0100-PNP 0301496 KV BW08-SG08 3P-0200-PNP 0301595 KV BW12-SG12 3P-0030-PNP 0301595 KV BW12-SG12 3P-0100-PNP 0301596 KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	CLI-M12	0301464			
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KV BW12-SG12 3P-0200-PNP 0301597 Sensor distributor 0301776 V2-M12 0301775 V2-M8 0301775 V4-M8 0301746	KV BW12-SG12 3P-0030-PNP	0301595			
Sensor distributor V2-M12 0301776 ● V2-M8 0301775 ● V4-M8 0301746	KV BW12-SG12 3P-0100-PNP	0301596			
V2-M12 0301776	KV BW12-SG12 3P-0200-PNP	0301597			
V2-M8 0301775 ● V4-M8 0301746	Sensor distributor				
V4-M8 0301746	V2-M12	0301776	•		
	V2-M8	0301775	•		
V8-M8 0301751	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.



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