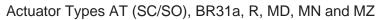
DATASHEET TY005.071 EN

Installation positions of control valves in pipelines and attachment options of the actuators on the valves



Translation



Valve Types 72, 73, 82 with actuators Type AT (SC/SO) and BR31a

Installation positions of the valve in the pipeline 1.1

NOTICE

Malfunction or damage to the control valve due to incorrect installation in the pipeline.

- → Install the control valve in the plant so that the condensate can drain off.
- The plug should not swing downwards. Deposits of the medium can cause the plug to jam!
- The permissible installation position of the accessories must be observed! See the associated installation and operating instructions.

Type-approved valves according to Gas Appliances Regulation (EU) 2016/426, DVGW, DIN EN 161, CERTCO may only be installed in the pipeline with the actuator facing upwards. See Fig. 1.1.

- SAMSON VETEC recommends the standard installation position: horizontal pipeline, AT actuator orientated vertically upwards. See Fig. 1.1.
- → For correct sizing of the actuator and alignment of the accessories, the installation position in the pipeline deviating from the standard must be specified when ordering the valve.

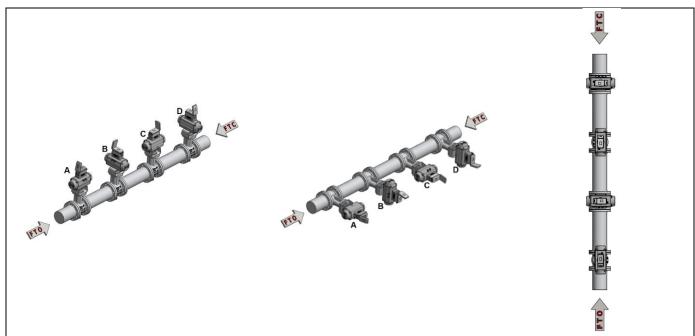


Fig. 1.1: Standard installation positions - Fig. 1.2: Optional installation position horizontal pipeline

horizontal pipeline (after consulting SAMSON VETEC)

Fig. 2: Alternative installation positions: vertical pipeline (after consulting SAMSON VETEC)

FTO=Flow to open • FTC=Flow to close

Other installation positions on request!

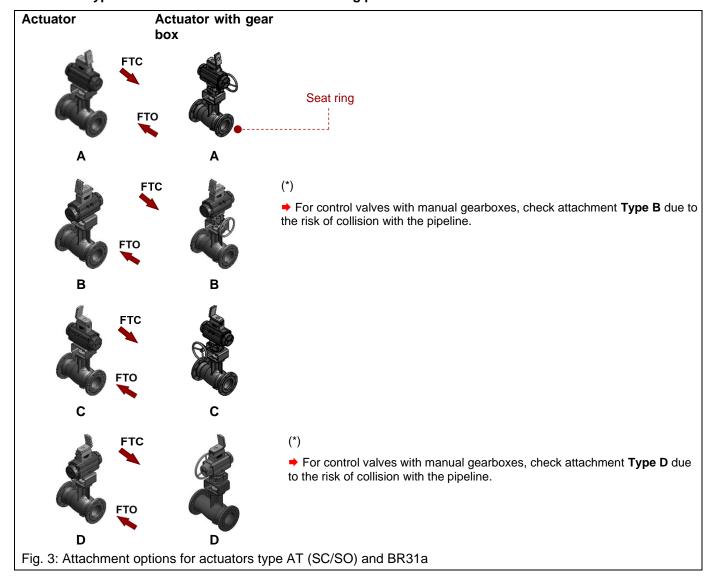
(To be filled in by the customer)

Issue: November 2022 (Version 07 / 20.02.2025)

1.2 Attachment options for actuators AT / BR31a to the valve Types 72, 73, 82

Attachment types A, B*, C, D* are possible for mounting the actuators to the valves.

Attachment **Type A** is selected as the **standard mounting position** if no other information is available.



FTO=Flow to open • FTC=Flow to close

TY005.071 · Version 08 Page 2 of 11

2 Valves Type 62 with actuators type AT (SC/SO) and BR31a

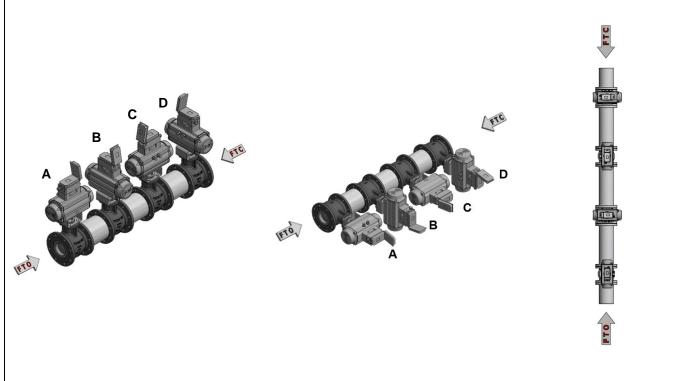
2.1 Installation positions of the valve in the pipeline

NOTICE

Malfunction or damage to the control valve due to incorrect installation in the pipeline.

- → Install the control valve in the plant so that the condensate can drain off.
- The plug should not swing downwards. Deposits of the medium can cause the plug to jam!
- The permissible installation position of the accessories must be observed! See the associated installation and operating instructions.

- SAMSON VETEC recommends the standard installation position: horizontal pipeline, AT actuator orientated vertically upwards. See Fig. 4.1.
- > For correct sizing of the actuator and alignment of the accessories, the installation position in the pipeline deviating from the standard must be specified when ordering the valve.



horizontal pipeline

Fig. 4.1: Standard installation positions - Fig. 4.2: Optional installation position - horizontal pipeline (after consulting SAMSON VETEC)

Fig. 5: Alternative installation positions: vertical pipeline (after consulting SAM-SON VETEC)

FTO=Flow to open • FTC=Flow to close

Other installation positions on request!

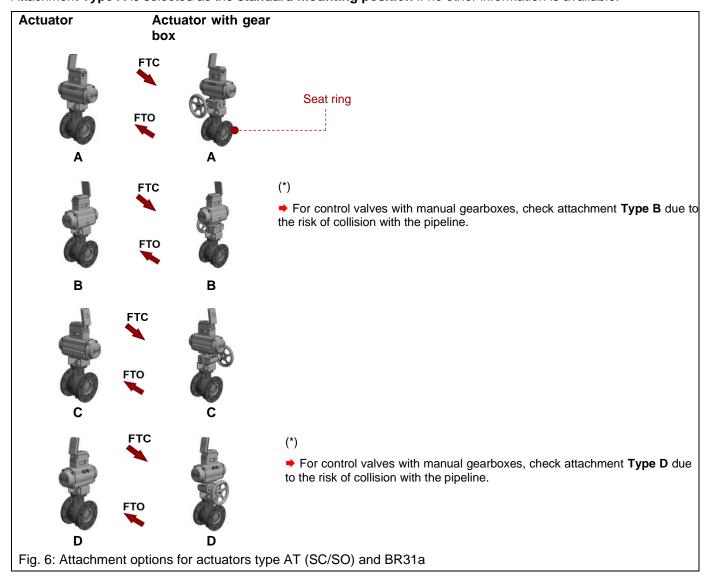
(To be filled in by the customer)

TY005.071 · Version 08 Page 3 of 11

2.2 Attachment options for actuators AT / BR31a to the valve Type 62

Attachment types A, B*, C, D* are possible for mounting the actuators to the valves.

Attachment **Type A** is selected as the **standard mounting position** if no other information is available.



FTO=Flow to open • FTC=Flow to close

TY005.071 · Version 08 Page 4 of 11

3 Valves type 72, 73, 82 with actuator type R

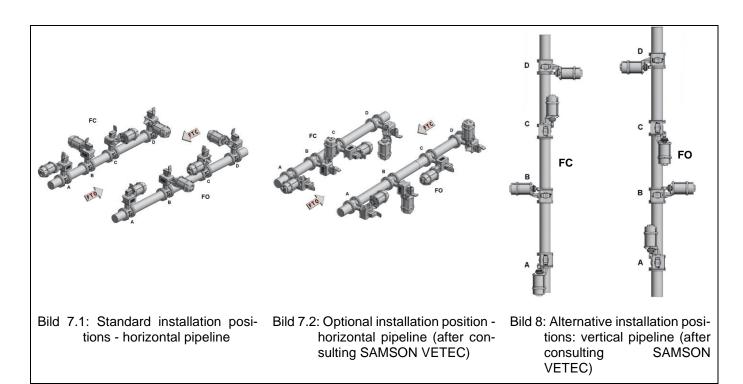
3.1 Installation positions of the valve in the pipeline

.....

• NOTICE

Malfunction or damage to the control valve due to incorrect installation in the pipeline.

- → Install the control valve in the plant so that the condensate can drain off.
- → The plug should not swing downwards. Deposits of the medium can cause the plug to jam!
- → The permissible installation position of the accessories must be observed! See the associated installation and operating instructions.
- → SAMSON VETEC recommends the standard installation position: horizontal pipeline, R actuator with horizontal piston rod (parallel to the pipeline). See Figure 7.1.
- For correct **sizing of the actuator** and **alignment of the accessories**, the installation position in the pipeline deviating from the standard must be specified when ordering the valve.



FC=Fail-to-close • FO=Fail-to-open • FTO=Flow to open • FTC=Flow to close

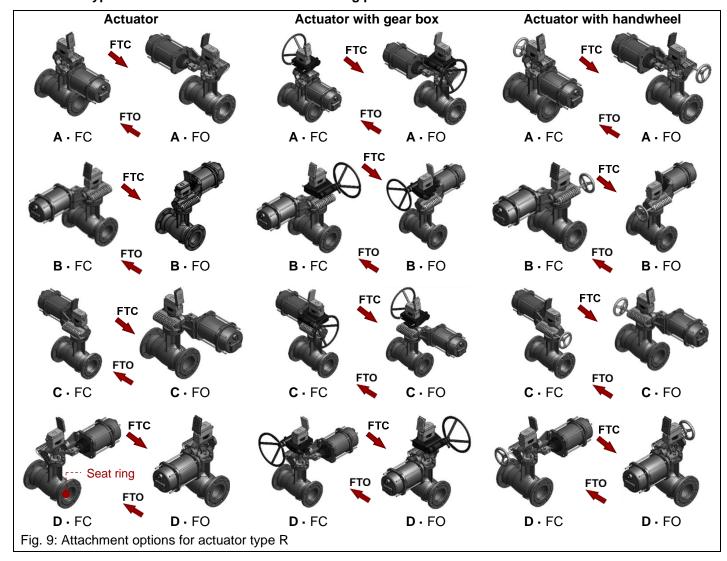
Other installation positions on request!

TY005.071 · Version 08 Page 5 of 11

3.2 Attachment options for R-actuator to the valve

Attachment Types A, B, C, D are possible for mounting the actuators to the valves.

Attachment Type A is selected as the standard mounting position if no other information is available.



FC=Fail-to-close • FO=Fail-to-open • FTO=Flow to open • FTC=Flow to close

TY005.071 · Version 08 Page 6 of 11

4 Valves type 72, 73, 82 with actuators type MD and MZ

4.1 Installation positions of the valve in the pipeline

.....

NOTICE

Malfunction or damage to the control valve due to incorrect installation in the pipeline.

- → Install the control valve in the plant so that the condensate can drain off.
- → The plug should not swing downwards. Deposits of the medium can cause the plug to jam!
- → The permissible installation position of the accessories must be observed! See the associated installation and operating instructions.

→ SAMSON VETEC recommends the standard installation position; horizontal pipeline, MD, MZ actuator with verti

- → SAMSON VETEC recommends the standard installation position: horizontal pipeline, MD, MZ actuator with vertical piston rod (vertical to the pipeline). See Figure 10.
- For correct sizing of the actuator and alignment of the accessories, the installation position in the pipeline deviating from the standard must be specified when ordering the valve.

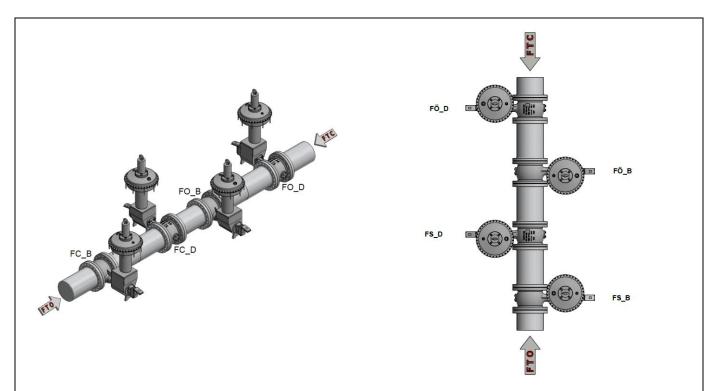


Bild 10: Standard installation positions - horizontal pipeline Bild 11: Alternative installation positions: vertical pipeline (after consulting SAMSON VETEC)

Other installation positions on request!

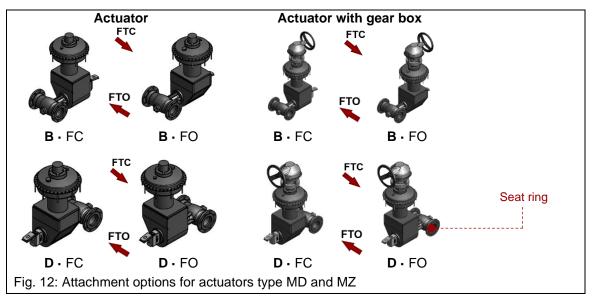
(To be filled in by the customer)	

TY005.071 · Version 08 Page 7 of 11

4.2 Attachment options for M-actuators (MD/MZ) to the valve

For mounting the actuator to the valve, we recommend attachment Types B and D.

Attachment Types A and C must be checked due to the risk of collision with the pipeline. Details on request! Attachment **Type B** is selected as the **standard mounting position** if no other information is available.



FC=Fail-to-close • FO=Fail-to-open • FTO=Flow to open • FTC=Flow to close

TY005.071 · Version 08 Page 8 of 11

5 Valves type 72, 73, 82 with actuator type MN

5.1 Installation positions of the valve in the pipeline

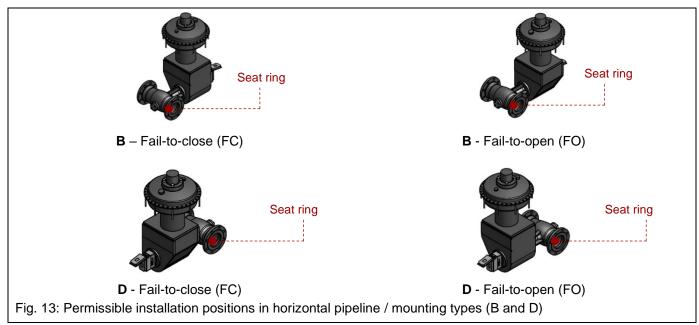
.....

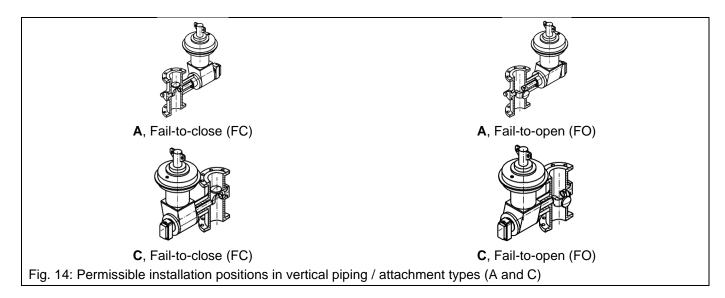
NOTICE

Malfunction or damage to the control valve due to incorrect installation in the pipeline.

- → Store, transport and install the control valve with Type MN actuator only with horizontal shaft (actuator facing upwards, with vertical piston rod). See Fig. 13, 14.
- → Install the control valve in the plant so that the condensate can drain off.
- → The plug should not swing downwards. Deposits of the medium can cause the plug to jam!
- → The permissible installation position of the accessories must be observed! See the associated installation and operating instructions.

- Permissible installation position: vertical pipeline, MN actuators with vertical piston rod parallel to the pipeline and orientated upwards. See Fig. 14.
- For correct sizing of the actuator and alignment of the accessories, the installation position in the pipeline deviating from the standard must be specified when ordering the valve.





TY005.071 · Version 08 Page 9 of 11

5.2 Attachment options for MN-actuator to the valve

For mounting the actuator to the valve, we recommend attachment types **B** and **D** (See Fig. 13).

Attachment type B is selected as the standard mounting position if no other information is available.

Attachment types A and C (See Fig. 14) are possible under the following conditions: vertical pipeline, without insulation, maximum permissible medium temperature 60 °C and only from nominal width DN 80. Details on request!

TY005.071 · Version 08 Page 10 of 11



VETEC Ventiltechnik GmbH

Siemensstrasse 12 · 67346 Speyer · Germany Phone: +49 6232 6412-0 · Fax: +49 6232 42479

E-mail: sales-vetec-de@samsongroup.com · Internet: vetec.samsongroup.com

Note: Errors and omissions excepted

TY005.071 · Version 08 Page 11 of 11