3-WAY VALVE 5/4"

OPERATING MANUAL





1. Technical data

ACTUATOR

Electrical specification	
Rated voltage	AC 100-240 V, 50/60 Hz
Working range	AC 85-265 V
Work/stand-by power consumption	2.5 W/0.5 W
Rated power	6.5 VA
Power/control connection	3 x 0.75 mm²
Functional data	
Torque	4 Nm
Manual switching	button with lock
Rotation angle	90 <u>°</u>
Movement time	15 s / 90º
Sound power level	35 dB(A)
Cafaty data	
IFC/FN protection class	IL reinforced insulation
IFC/FM enclosure protection category	IP54
EVEN electromagnetic compatibility	CE marking according to 2014/30/EC
	CE marking according to 2014/06/16
IEC/EN certification	IEC/EN 60730-1 and IEC/EN 60730-2-14
Ambient humidity	max. 95% relative humidity without condensation
Ambient temperature	-30ºC to 50ºC

3-WAY VALVE

Functional data	
Nominal diameter	DN25
Connections	G 1 ¼"
Type of medium	water and glycol mixtures max. 50% vol.
Temperature of the medium	2ºC to 110ºC
Permissible pressure Ps	1600 kPa
Pressure differential Pmax	600 kPa (200 kPa recommended)
Rotation angle	30 .
KVS	11,3 m3/h
KVS Material data	11,3 m3/h
KVS Material data Body	11,3 m3/h brass
KVS Material data Body Closing element	11,3 m3/h brass chrome-plated brass CW617N
KVS Material data Body Closing element Spindle seal	11,3 m3/h brass chrome-plated brass CW617N EPDM PEROX brass

2. General information and safety:

It is imperative to follow the provisions in this manual:

• The valve is designed for use in stationary heating, ventilation and air conditioning systems. It must not be used in areas other than those mentioned in the documentation, in particular, it must not be used in aircraft or other means of air transportation.

• Installation work must be carried out by persons with the appropriate authorizations. You must comply with all, applicable, standards and regulations for installation and assembly.

The user may neither replace nor repair any valve components.

• The valve must not be disposed of with household waste. A used or damaged actuator/valve must be handled in accordance with applicable waste disposal regulations.

• The flow characteristics of the controlled elements must be determined in accordance with the applicable directives.

3. Plumbing installation recommendations:

• The ball valve can be mounted from vertical to horizontal. Do not install the valve in a hanging position, i.e. with the spindle facing down.



• The medium can flow in both directions.



• Water quality must comply with the requirements of the VDI 2035 standard. Ball valves are control elements. In order to ensure proper operation and extend the service life, valves must be protected from contamination by particulate matter (such as welding spatter). It is recommended to install a suitable filter.

4. Maintenance

• Ball valves and rotary actuators are maintenance-free devices. Before performing any service work on the actuator, you need to disconnect the actuator from the electric power supply (if necessary by disconnecting the power cable). In addition, in the relevant section of the pipeline, you need to turn off the pumps, as well as close the relevant isolation valves (if necessary, wait for the pipeline to cool down and equalize the pressure in the system with the ambient pressure).

• The system must not be restarted until the ball valve and actuator are properly installed as recommended and the pipeline is properly filled. Work may only be performed by qualified persons.

5. Disposal and waste handling:

Caring for the environment is of paramount importance to us. Knowing that we manufacture electronic devices obliges us to dispose of used electrical components and equipment in a nature-safe manner. The crossed-out garbage symbol on the product indicates that the product must not be disposed of in regular waste containers. By

segregating waste for recycling, we help protect the environment. It is the user's responsibility to take used equipment to a designated collection point for recycling of waste generated from electrical and electronic equipment.





