

68022 MANUAL for Pressure Reducing Valve – Revision 2

PRODUCT INFORMATION

Product full name:	Pressure reducing valve, flanged connection
Product Group:	471524
Nominal size:	DN10-50
Nominal pressure:	PN40
Connection acc.:	PN40
Output pressure range:	1,5-20 bar
Max reduction ratio:	1:6
Working temperature:	Max 75°C
Media:	Air, gas, boiler feedwater, condensate, seawater and fresh water. <i>Attention! Not suitable for steam!</i>

DESCRIPTION

The pressure reducing valve is used to reduce a higher inlet pressure to a constant lower pressure and shall only be used for this purpose. It is vital for the functionality of the valve that the valve is used according to its strict pressure and temperature limits.

TRANSPORT & STORAGE INFORMATION

The pressure reducing valves must be transported and storage in its packaging, until installation of the unit, to protect it from influences like dirt, moist and frost that might harm the valve.

INSTALLATION

Before installation the pipe must be made free from dirt and other unwanted particles. A mandatory flushing of the pipe must be done before installation can take place.

The system must be depressurized before the installation can begin.

The flow direction through the valve is indicated by arrows on the valve body. Make sure that these arrows are aligned with the flow direction of the system.

The valve should preferably be placed in a vertical position.

The bolts for the connection flange are to be tighten crosswise with the appropriate torque. No major force or torque are to be applied to the valve from the pipeline after installation. The outlet pressure is to be adjusted while the flow through the system is zero. Use the handwheel to adjust outlet pressure, turning clockwise to increase and counter clockwise to reduce it. Double-check the pressure when flow is let back on and readjust the outlet pressure as soon as the flow is stable if necessary.

OPERATING INSTRUCTIONS

The valve is sensitive to dirt and/or foreign particles that might clog the valve inlet and lead to functional failure. The valve must be serviced annually. The pressure regulators of the valve should be regularly inspected.

Opening the valve for cleaning or replacement of components

- *Must be done by qualified staff.*
- *Must be done when system is depressurized.*

Loosen the nut that is holding up the handwheel on top of the bonnet to completely release the spring before opening the valve.

The bonnet on the threaded valves (DN32 and lower) can be disassembled using a box wrench or other suitable tool. Do not use a pipe wrench!

On bonnets for valves larger then DN32, remove bonnet by disassembling the fastening screws.

Remove the spring and spring retainer when bonnet is removed. Continue by unscrewing the hex nut and remove the disc spring, diaphragm and piston. Remove the bottom plug and take out the swing with main seal and inspect it for damage and dirt.

Reassemble the valve in the reverse order. Ensure that the swing is positioned freely in the centre of the main body. Lubricate the O-rings with some grease.

No.	Description
1.	Body
2.	Bonnet
3.	Piston guide
4.	Sealing
5.	Spring

