

PN 16-25-40 globe valves and PN 40 extended neck valves

SS-DS-3V

CE In compliance with 97/23/CE PED

INSTALLATION

Hydraulic connections

Follow the fluid directions as shown in the diagram below.

Two-way valve

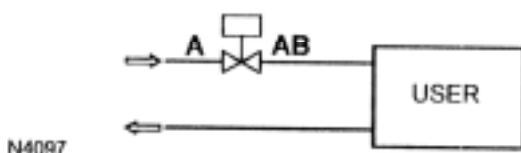


FIG. 1 Variable flow control to the user

It is advisable to install two-way valves on the return leg (excluding steam plants) since the lower temperature of the fluid allows a longer life of the packing.

Three-way valve

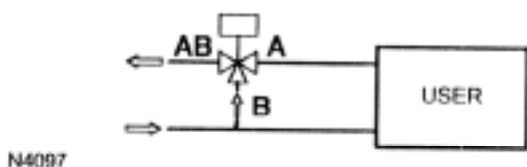


FIG. 2 Variable flow mixing to the user

Three-way valves must be used as mixers, two inlets A and B and one outlet AB, and not as diverting valves with one inlet AB and two outlets A and B.

The use of diverting valves is necessary only in open circuit plants. Our mixer valves may be used in such cases taking into account that the maximum recommended differential pressure must be reduced to one third of the specified value, see relevant data sheet.

ASSEMBLING

Before installing the valve, make sure the pipework is clean and free from weld slag in order not to damage the internal parts of the valve itself. The pipework must be perfectly aligned with the valve body and not be subjected to vibrations.

For applications with fluids above 200°C (steam, overheated water, diathermic oil), install expansion joints to avoid the expansion of the pipes to cause undue stress on the valve body. The valve can be mounted in any position including the upper 180° arc, providing that the actuator shaft is always in horizontal position.

During the actuator position adjustment, **do not unscrew** the stroke adjustment nut.

The valve must be mounted horizontally in all applications where the high temperature of the fluid together with that of the atmosphere around the actuator exceeds 50°C, the maximum allowable value for its regular operation.

The actuators must not be installed in explosive environments and must not be subjected to steam jets or dripping water.

Sufficient space must be left above the actuator, minimum 10 - 15 cm, to allow the actuator itself to be removed from the valve body in case of maintenance.

START-UP COMMISSIONING

Before the start-up of the valve, make sure:

– FLOW DIRECTION
It must correspond to the indications printed on the valve body and shown in Fig. 1 and 2.

– OPENING AND CLOSING ACTION OF THE VALVE
This must comply with the plant specification, ensuring that:

Two-way valve

Stem down = fluid intercepted
Stem up = fluid passing

Three-way valve

Stem down = fluid flows through A-AB
fluid intercepted through B-AB
Stem up = fluid intercepted through A-AB
fluid flows through B-AB

– OPERATING CONDITIONS
Temperature, nominal pressure and differential pressure on the valve must be within the values specified for each valve model on the relevant data sheets.

– PIPE FLUSHING

An anomalous valve flow action is caused, in almost all cases, by weld slag or foreign bodies entrapped between the valve seat and the plug, often damaging them.

To prevent such inconveniences, it is advisable to use filters to be installed upstream of the valve.

Moreover, the pipelines must be thoroughly washed by positioning the valve stem at half stroke; this operation must be performed before start-up and after a prolonged shutdown of the system.