

VP3V S4-PPH

Pneumatic actuated ball valves 3-way



INSTRUCTIONS MANUAL

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Pneumatic actuated ball
valves 3-way

VP3V S4-PPH

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PLAS

913-05/1

DESCRIPTION

Pneumatic actuators are designed for controlling quarter turn plastic valves. For any other purpose, please report to us before start up; we may not be responsible of troubles due to other applications.

1. Fitting on the pipe line

1.1. Precautions

Before fitting the valve, it is necessary to verify the chemical compatibility between all the elements (fluid vs. body, seals, seating joints).

1.2. Assembly

Respect common precautions for the assembly of all elements together.
All parts should correspond in dimensions, pressure & temperature limits.

2. Pneumatic actuators connection

2.1. Precautions

Fitting, connections, initial start-up and maintenance operations must be done by trained technicians.
All European and local rules for pneumatic devices and systems must be respected.

2.2. Connecting the actuator

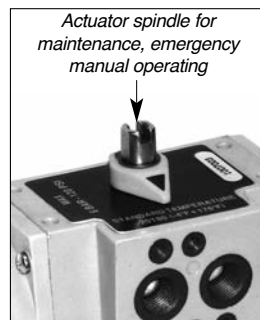
A pilot valve certified for our actuators would be preferable to any other devices:

- Pilot valve: 3/2-way solenoid valve (single effect)
- Pilot valve: 5/2-way solenoid valve (double effect)

Compressed air supply through G 1/4" connection: acc. NAMUR specifications.
Control pressure: 6 bar as a minimum, 8 bar as a maximum

3. Assistance with manual operating

- Exhaust the compressed air before to intent a manual operating
- Turn on the spindle with an appropriate tool.

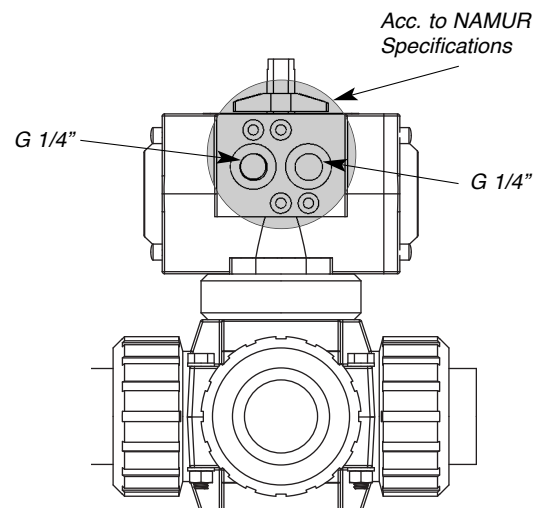


4. Technical features

Valve materials

Body:	PPH
Seals:	EPDM or FPM
Ball:	PPH
Ball seating joints:	PTFE
Ball shapes:	L shape or T shape
Process connections:	Unions (<i>solvent sockets</i>)
Pressure:	10 bar as a maximum up to 20°C

Pneumatic actuator	Single or Double acting
Control pressure:	6 bar as a minimum, 8 bar as a maximum
	Connections: 1/4" G
According to:	NAMUR VDI/VDE 3845 and ISO 5211



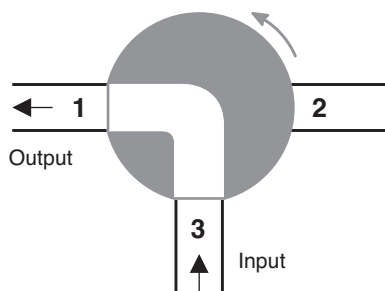
4. Specifications of 3 ways ball valve

3 ways valves L shape

"L1" fonction: distribution

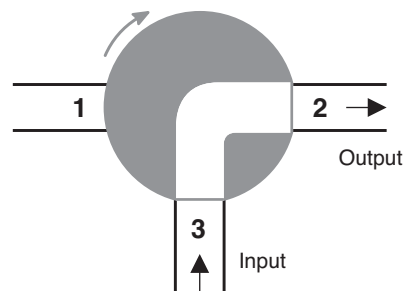
1 input, 2 output

Start position (0°)



90° Rotation
(clockwise or anticlockwise)

End position (90°)

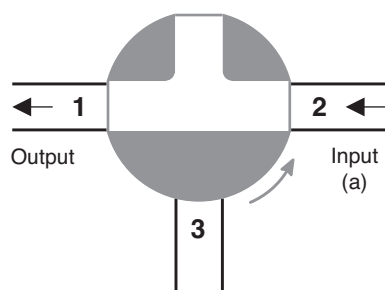


3 ways valves T shape

"T1" fonction: Mixing

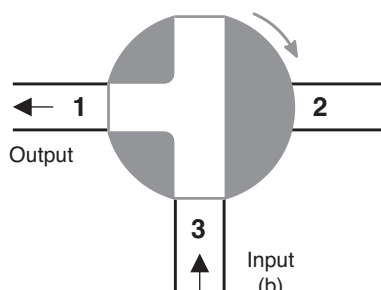
2 input, 1 output

Start position (0°)



90° Rotation
(clockwise or anticlockwise)

End position (90°)

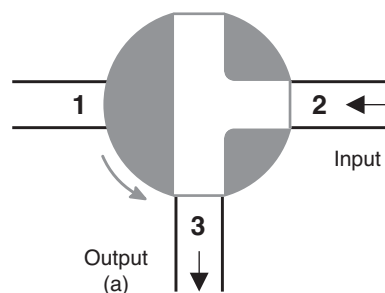


3 ways valves T shape

"T2" fonction: switching

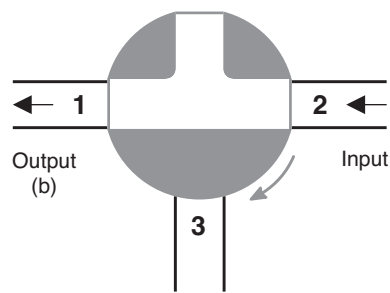
1 input, 2 output

Start position (0°)



90° Rotation
(clockwise or anticlockwise)

End position (90°)



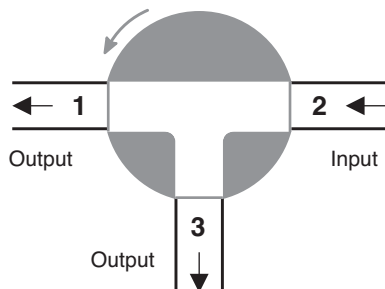
3 ways valves T shape

"T3" fonction: switching

Mode 1: 1 input, 2 output

Mode 2: 1 input, 1 output

Start position (0°)



90° Rotation
(clockwise or anticlockwise)

End position (90°)

