

# MANIFOLD VALVES TYPE ZB

## **APPLICATION AREA:**

The manifold valves are designed for installation, startup and maintenance of pressure /flow converters, pressure gauges and other fittings and supplementary equipment in industrial automatic and tuning systems, thermal power engineering and other applications. They are used to connect instruments and fittings by means of pulse tubes and make it possible to cutoff (disable) hydraulic or pneumatic impulses, balancing (zeroing) or ventilation of instruments and purging of pipeline systems.

### FEATURES:

- high parameters of operating pressure and temperature,
- high tightness and reliability of valve closure,
- easy operation,
- purposeful selection of materials for parts and sealing to achieve versatility of application,
- direct installation of instruments brings down total cost of the system and reduces number of locations with possible leaks,
- wide choice of connection,
- securing of the valve stem against sliding out during operation,
- possibility to connect heating appliances,
- distinguishable marking of on/of valves functionalities with colours
- compact design owing to combining all the functions in a single unit.



# DESIGN

Body	
- material:	carbon steel S355J2G3 (1.0570)
	stainless steel X6CrNiMoTi 16-12-2 (1.4571)
- number of on/off valves	3 or 5
- connecting ports	direct (flanged)
	tubular
	via a straight connector
- facilities for heating	with /without an opening for heating appliances
Bonnet	- the same as the valve body.
Stem	- acid resistant, burnished on the sealing surface, with rolled screw thread in the
area where no contact with	the handled utilities is anticipated, polished.
Needle	-two options: a hard one – stainless steel with further guenching or a soft one,
	made of PTFE, secured against revolving when engaged into the valve seat.
Bonnet sealing	- spring gasket made of acid resistant spiral tape and graphite
Stem sealing	- PTFE packing, graphite; o-ring – depending on specific application
Handwheel	- T-shaped, stainless steel.
Protecting sleeves	- plastic, protects stem threads against contaminations and bears marking of
ť	ne valve designation: blue - On/Off valve, green - balancing (relief) valve, red - vent valve.

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# DIMENSIONS









## **RECOMMENDED APPLICATION**

The recommended design of cartridge valves: acid resistant materials for bodies, stem sealing of PTFE. Graphite sealing should be used only for the working temperature range +200 ... 500°C. Stem sealing with use of an o-ring as well as soft needle are recommended only for gaseous utilities.

The connected instrument should be sealed with use of either PTFE or graphite (for temperature range  $+200 \dots 500^{\circ}$ C) sealing. All the fixing parts to attach the cartridge valve to the instrument (bolts, gaskets) are supplied upon separate order. The valve is attached to a piping component with use of mounting holes 3 x M8 (valves with a heating port) or 2 x M10 (other valves).

### **PRODUCT CODE**

