2-3TGB.F

2/3-way valves - PN16

MODELS		DN	Kvs [m³/h]	STROKE [mm]
Two-way	Three-way			
2TGB15FR00	--	1/2"	0.4	11.5
2TGB15FR0	--		0.63	
2TGB15FR1	--		1	
2TGB15FR2	3TGB15FR2		1.6	
2TGB15FR3	3TGB15FR3		2.5	
2TGB15F	3TGB15F		4	



APPLICATION AND USE

These valves can be used either for control or fluid detection in air-conditioning, thermoventilation and heating plants, both environmental and industrial, and in machines for product thermal process.
Three-way valves should be used only as mixing valves; angle way should never be used for control purposes.

OPERATION

When stem is up, A-AB way is closed; with stem down B-AB way is closed.

ACTUATORS

The valves are motorised by MVE.S electrical actuators.

MAX CLOSE-OFF DIFFERENTIAL PRESSURE [kPa]

DN	MVR.06S	MVE.10S	MVE.15S	MVE.22S
1/2"	1600			

100 kPa = 1 bar = 10 m_{H_2O}

MAX REGULATION DIFFERENTIAL PRESSURE [kPa]

The max regulation differential pressure, it means the pressure which can be used during the stroke, is conditioned by wear between seat and plug and by the performance guaranteed by the actuator for the evaluated valve. So we recommend not to overcome the differential pressure whose value corresponds to the minimum between 1400 kPa (maximum admitted value not to cause wear) and the one shown in the previous table (max close-off differential pressure).
Note: The max operating pressures at different temperatures for various PN classes must correspond to the following standards: UNI 1092-02 and UNI 12516-1.

MANUFACTURING CHARACTERISTICS

The valve body is made of grey cast iron (EN1561 GJL-250). The plug is in brass (EN12164 CW614N) with equal-percentage profile on direct way and linear on angle way. The stem is in stainless steel with threaded M8 end and female threaded connections. The stem packing is composed of V Teflon O-rings.

The performances stated in this sheet can be modified without any prior notice.

TECHNICAL CHARACTERISTICS

CHARACTERISTIC	DESCRIPTION
Construction	PN16
Control characteristics	direct way equalpercentage, angle way (3-way only) linear
Leakage*	direct way 0...0.001% of Kvs, angle way 0...0.1% of Kvs
Connections	female threaded
Stroke	11.5 mm
Allowed fluids	water: max. temperature 140°C, min. temperature -5°C (in case of ice on stem and gasket, use the stem-heater) glycol added 60%
Weight:	see dimensions

* Leakage is measured according to the EN1349 standard.

INSTALLATION

Before valves are mounted, make sure that pipes are clean, free from welding slags, that are perfectly lined up with valve body and not subjected to vibrations.
The valve can be mounted in any position except upside-down. While assembling, respect the flow directions indicated by the letters located on the valve body (see Fig. 1 and 2) and the application schemes.

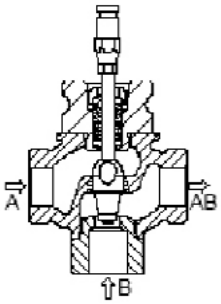


FIG. 1

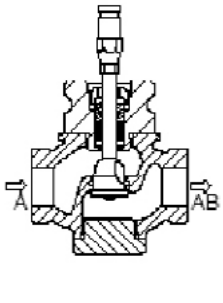
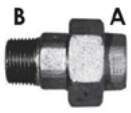


FIG. 2

ACCESSORIES

GVB15 Protection shells

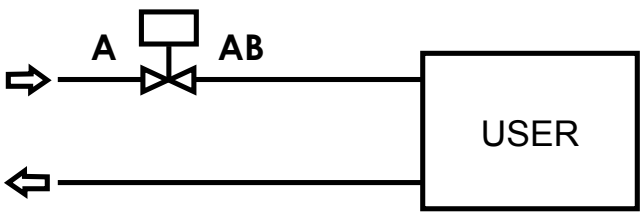
CAST IRON FITTINGS 3 PIECES			
THREAD		FITTING CODE	SEAL CODE
A	B		
G1/2" F	G1/2" M	89948-01	89949-01



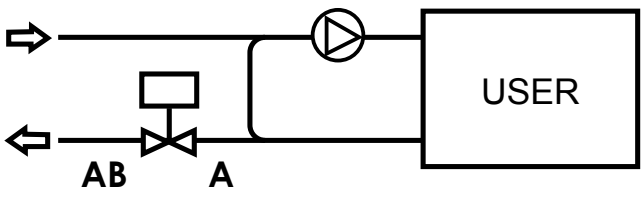
APPLICATION SCHEMES

2-way valves

Valve with variable flow to the user

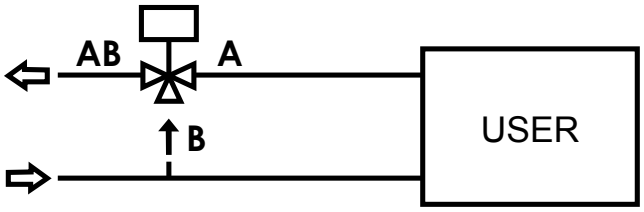


Valve with constant flow to the user

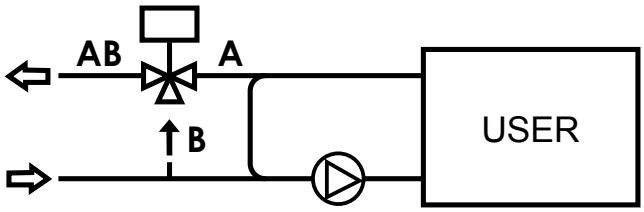


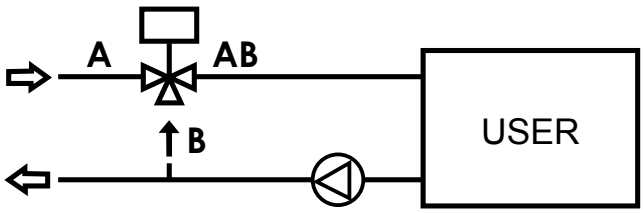
3-way valves

Mixing valve in diverting mode



Mixing valve for constant flow to the user





DIMENSIONS [mm]

DN	d	2-3 way			2 way	3 way	Weight [kg]
		L	a	h	b	c	
1/2"	Rp 1/2 - 14	76.5	50	39.5	33	43	0.8

