2-3TGB.F

MODELS		DN	Kvs	STROKE	
2-way	3-way	[inches]	[m³/h]	[mm]	
2TGB15FR00			0,4		
2TGB15FR0			0,63		
2TGB15FR1		1./0	1	11,5	
2TGB15FR2	3TGB15FR2	1/2	1,6		
2TGB15FR3	3TGB15FR3		2,5		
2TGB15F	3TGB15F		4		

Kvs is the flow rate expressed in m^3/h of water at a temperature between 5°C and 40°C passing through a valve open at the nominal stroke with 100kPa (1bar) differential pressure.



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

ACTUATORS

The valves are motorised by CONTROLLI MVE.S electrical actuators.

MAX CLOSE-OFF DIFFERENTIAL PRESSURE [kPa]

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

 $100kPa = 1bar = 10m_{H_{a}O}$

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 t400kPa (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.

TECHNICAL CHARACTERISTICS

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:** 11,5mm

Stroke: Allowed fluids:

Weight:

- water: max. temperature 140°C

min. temperature -5°C (in case of ice on stem and gasket, use the stem-heater)

glycol added 60%

see dimensions

* Leakage is measured according to the EN1349 standard.

Controlli S.p.A. 16010 Sant'Olcese (GE) Tel. 010 73 06 1 Fax. 010 73 06 870/871 www.controlli.eu

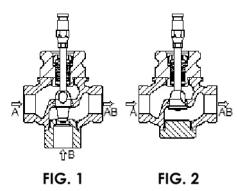




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Before valves are mounted, make sure that pipes are clean, free from welding slags, that are perfectly lined up with valve body and not subjected to vibrations.

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.



ACCESSORIES

GVB15 Protection shells

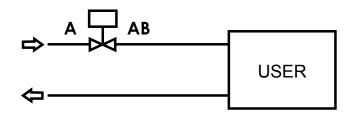
CAST IRON FITTINGS 3 PIECES				
THREAD		FITTING	SEAL CODE	
Α	В	CODE	SEAL CODE	
G1/2" F	G1/2" M	89948-01	89949-01	



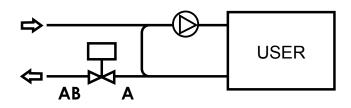
APPLICATION SCHEMES

2-way valves

a) Variable flow control when used

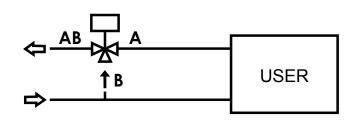


b) Constant flow when used in injection circuits

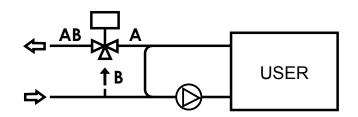


3-way valves

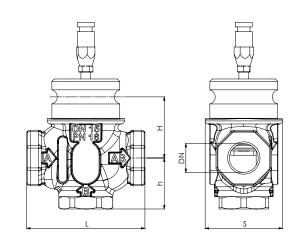
c) Variable flow mixing when used



d) Constant flow mixing when used in injection or tapping circuits



DIMENSIONS [mm]



DN	d	2-3way			2 way	3 way	Weight	
		L	а	е	b	С	[kg]	
1/2"	Rp 1/2 - 14	76,5	50	209	34	43	0,8	

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

