

MODELS		DN	Kvs	STROKE	
2-WAY	3-WAY	DN	[m³/h]	[mm]	
2TGB15BR00	-		0,4		
2TGB15BR0	-		0,63		
2TGB15BR1	-	1 /0"	1	11,5	
2TGB15BR2	3TGB15BR2	1/2"	1,6		
2TGB15BR3	3TGB15BR3		2,5		
2TGB15B	3TGB15B		4		

 $100kPa = 1bar = 10m H_2O$



APPLICATION AND USE

These valves can be used either for fluid control or 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.

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 Teflon V-rings.

TECHNICAL CHARACTERISTICS

Body rating: 1600 kPa max (16 bar)

Control characteristics:

equal percentage (direct way) linear (angle way - 3-way only)

Leakage*:

0...0,001% of Kvs (direct way)

0...0,1% of Kvs (angle way)

Connections: female thread **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, see actuator data sheets)

- glycol added 60%

Weight: See overall dimensions

* Leakage is measured according to the EN1349 standard.

ATTENTION: If the valves are assembled with MVB+spacer (MVBHT) the max, operating temperature is 140 °C, while without

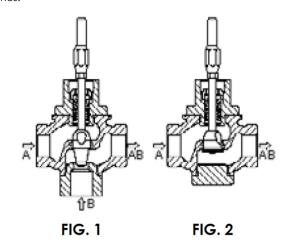
spacer is 120 °C.

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INSTALLATION

Before mounting the valves, make sure that pipes are clean, free from welding slags, 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.



OPERATION

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

ACTUATORS

The valves are motorized by CONTROLLI electric actuators MVB and MVC series with AG74-03.

DN	W	VB	MVC503R, MVC.03 (with AG74-03)		
	2/3-WAY direct way	3-WAY angle way	2/3-WAY direct way	3-WAY angle way	
1/2"	1370	1240	1160	1600	

DP max= max differential pressure value ensured by the actuator for regular operation

NOTE In order to avoid wear between plug and seat, we recommend not to overcome the 4 bar differential pressure.

ACCESSORIES

GVB15 Protection shells

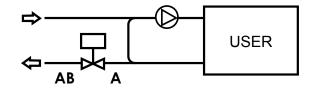
CAST IRON FITTINGS 3 PIECES						
THR	EAD	FITTING	SEAL			
Α	В	CODE	CODE			
G1/2" F	G1/2" M	89948-01	89949-01			



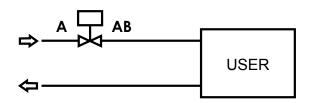
APPLICATION SCHEMES

2-way valves

a) Variable flow control when used

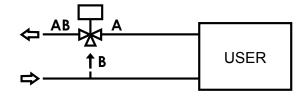


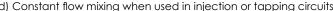
b) Constant flow when used in injection circuits

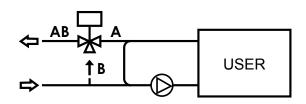


3-way valves

c) Variable flow mixing when used

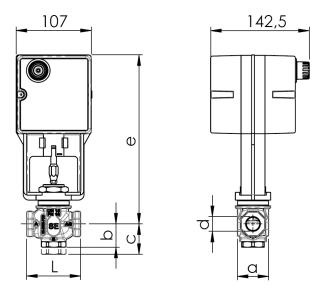






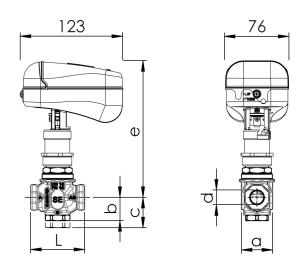
DIMENSIONS [mm]

2-3TGB.B + MVB



DN	d	2/3 way			2 way	3 way	Weight
		L	a	е	b	С	(kg)
1/2"	Rp 1/2-14	76,5	50	239	34	43	8,0

2-3TGB.B + MVC (with AG74-03)



DN 4		2/3 way		2 way	3 way	Weight	
DN	a	L	a	е	b	С	(kg)
1/2"	Rp 1/2-14	76,5	50	146	34	43	0,8

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

