MOD	DN	FLOW	STROKE		
Two-way	Three-way	(inches)	Kvs m3/h	(mm)	
2TGB15BR00			0,4		
2TGB15BR0	-		0,63	11 5	
2TGB15BR1	-	1/2	1		
2TGB15BR2	3TGB15BR2	1/2	1,6	11,5	
2TGB15BR3	3TGB15BR3		2,5		
2TGB15B	3TGB15B		4		

 $100 \text{ kPa} = 1 \text{ bar} = 10 \text{ m H}_{\circ}\text{O}$

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 ther-

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

direct way equal percentage

angle way (3-way only) linear

Leakage *

direct way 0...0,001% of Kvs angle way 0...0,1% of Kvs Connections female thread Stroke 11,5 mm

Allowed fluids:

max. temperature 140 °C - water

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

sheets)

- glycol added 60%

See overall dimensions Weight

ATTENTION: If the valves are assembled with MVB+spacer (MVBHT) the max. operating temperature is 140 °C, while without spacer is 120 °C.

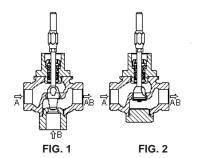


INSTALLATION

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 upsidedown.

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 motorised by CONTROLLI MVB electric actua-

DIFFERENTIAL PRESSURE (kPa)

		MVB Actuator			
	DN		angle		
Į		direct way	way*		
	1/2"	1370	1240		

only 3-way valves*

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.

1st Issue rev. a 02/12 DBL355e



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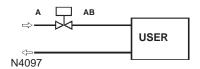
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^{*} Leakage is measured according to the EN1349 standard.

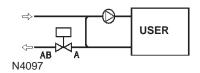
TWO-WAY VALVES

THREE-WAY VALVES

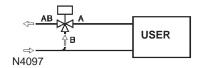
a) Variable flow control when used



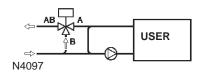
b) Constant flow when used in injection circuits



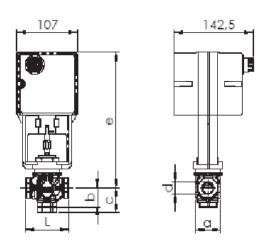
c) Variable flow mixing when used



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



DIMENSIONS (mm.)



		Valve dimensions [mm]					
DN	d	2-3 way			2 way	3 way Weight	Weight [Kg]
		L	а	е	b	С	[6,1]
1/2"	Rp 1/2 - 14	76,5	50	239	34	43	0,8

The performances stated in this sheet can be modified without any prior notice due to design improvements

