2/3-way valves PN16

2/3TGB.B

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

 $100kPa = 1bar = 10m H_{2}O$

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 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 Control characteristics		1600 kPa max (16 bar)		
		equal percentage		
	angle way (3-way		linear	
Leakage	*			
	direct way	00,001%	5 of Kvs	
	angle way	00,1% o	f Kvs	
Connections		female thread		
Stroke		11,5 mm		
Allowed f	luids:			
	- water	min. temp on stem c	perature 140 °C perature -5 °C (in case of ice and gasket, use the stem hea ctuator data sheets)	
Weight	- glycol added	60% See over	all 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.



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 motorised by CONTROLLI MVB electric actuators.

DIFFERENTIAL PRESSURE (KPA)

DN	M	VB	MVTx03 (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	

 $\ensuremath{\mathsf{DP}}$ 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.

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

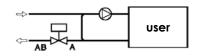


TWO-WAY VALVES

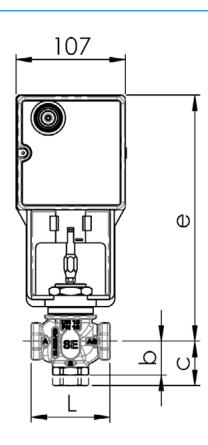
a) Variable flow control when used

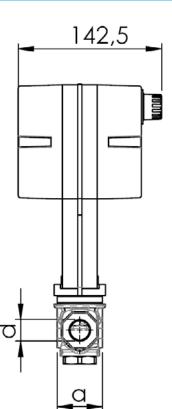
⇒ AB user

b) Constant flow when used in injection circuits



DIMENSIONS [mm]





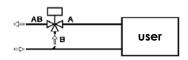
VALVE DIMENSIONS [mm]							
DN d	2/3 way		2 way	3 way	Weight (Kg)		
	L	а	е	b	С	Weight (Kg)	
1/2"	Rp 1/2-14	76,5	50	239	34	43	0,8

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



THREE-WAY VALVES

c) Variable flow mixing when used



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

