

MODELS	DN	Kvs [m³/h]	STROKE [mm]	MAX CLOSE OFF [kPa]
2TGA20BT	3/4"	5		
2TGA25BT	1"	10		
2TGA32BT	1 ¼"	13	8,5	1000
2TGA40BT	1 ½"	18		
2TGA50BT	2"	30		



APPLICATION AND USE

Compact valves with threaded connections and balanced plug suitable to all application with high differential pressure and high close-off pressure. Stainless Steel plug and seat allow an excellent high resistance to wear as well as to corrosion.

2TGA.B valves are design and manufactured according to P.E.D. 2014/68/UE and they can be used for Group 2 Fluid: hot and chilled water, glycol and other fluids compatible with EPDM materilas normally used for Heating, Air Conditioning and Thermo-Ventilation plants.

MANUFACTURING CHARACTERISTICS

Valve body: grey cast iron (EN1561 GJL-250)

Plug: stainless steel AISI 303 with percentage profile

Seat: stainless steel AISI 303

Stem: stainless steel AISI 303 with spring

Stem-packing: double O-ring in EPDM

TECHNICAL CHARACTERISTICS

Body rating (max): 1600 kPa max (16 bar)
Control characteristics: equal percentage

Leakage: max 0,03% of Kvs (measured according to

EN 60534-4

Connections: female G thread (EN ISO 228-1)

Stroke: 8,5 mm

Allowed fluids:

- water: -5T120°C

-water+glycole: 60% max (no mineral oil grease due to

EPDM packing)

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Reference standard

EN1349 Industrial Process Control Valves 2014/68/UE Pressure Equipment Directive EN60534-4 Inspection Test

OPERATION

2TGA.BT valves are stem up closed and they are designed to be controlled with CONTROLLI MVC actuator: MVC203 (3 point floating control, supply 230 Vac), MVC403 (3 point floating control, supply 24 Vac), MVC503 (modulating control, supply 24 Vac) or MVC503R (modulating control, supply 24 Vac/dc, electronic fail-safe) . 2TGA. BT valves need to be installed with fluid flowing from A to AB port. It is important that the specified fluid direction is respected to allow an effective balancing effect of the plug.

INSTALLATION

Hydraulic connections

Respect the fluid directions: inlet is labelled by A and outlet by AB.

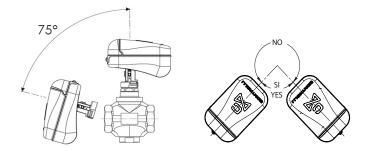
Valve mounting

Before mounting the valve, make sure pipes are clean, free from welding slags. The pipes must be perfectly aligned with the valve body and not subjected to vibrations.

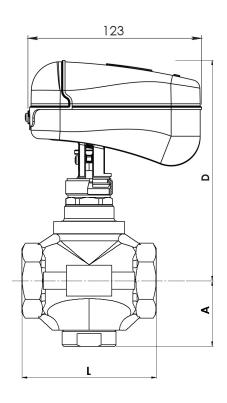
In any case avoid installing the valve in plants which are considered aggressive and/or corrosive for valve materials. Please contact our Sales Support in order to define which potentially aggressive or polluting substances can be used. We disclaim all responsibility in case of valve failure due to external fortuitos events (fire, earthquakes etc.).

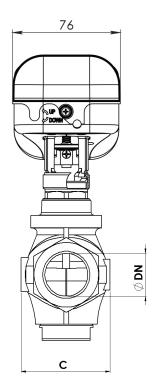
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Mount the valves with the actuator in vertical position with fluid temperature up to 90°C. For higher temperatures up to 120°C the valves must be mounted as shown in the picture beside:



DIMENSIONS [mm]





DN	L	A	В	С	D	WEIGHT [Kg]
3/4"	85	43	127	54	150	1
1"	95	47	132	62	155	1,4
1 1/4"	108	52	137	70	160	1,9
1 ½"	120	53	141	81	164	2,4
2"	194	67	146	97	169	5

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



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