

Compact Valves for High Performances

Models	Size	Cvs (Kvs)	stroke	Max close off (bar)
2TGA20B	3/4"	5.78 (5)	8.5	10
2TGA25B	1"	11.56 (10)		
2TGA32B	1"1/4	15.03 (13)		
2TGA40B	1"1/2	20.81 (18)		
2TGA50B	2"	34.68 (30)		

N.B.: Kvs is the rate measured in m³/h which flows through valves with a differential pressure of 1 bar

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. 97/23/EC 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.

WORKING SPECIFICATIONS

2TGA..B valves are stem up closed and they are equipped with a spring system which guarantees the close off pressure even if the actuator is not installed. 2TGA..B valves are designed to be controlled with MVT actuator: MVT28 (3 point fl oating control, supply 230V), MVT44 (3 point fl oating control, supply 24V) or MVT56L (modulating control long stroke, sup-ply 24V). 2TGA..B valves need to be installed with fl uid fl owing from A to AB port. It is important that the specified fluid direction is respected to allow an effective balancing effect of the plug.

MANUFACTURING CHARACTERISTICS

Valve body material: Grey cast iron (EN1561 GJL-250)
 Plug material: Stainless Steel AISI 303 with percentage profile
 Seat material: Stainless Steel AISI 303
 Stem material: Stainless Steel AISI 303 with spring
 Stem-packing: EPDM o-rings and oil wipers

TECHNICAL FEATURES

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: max temperature 120°C
 min temperature -5°C
 - water+glycole: 60% (max)

(no mineral oil grease due to EPDM packing)



INSTALLATION

Hydraulic connections

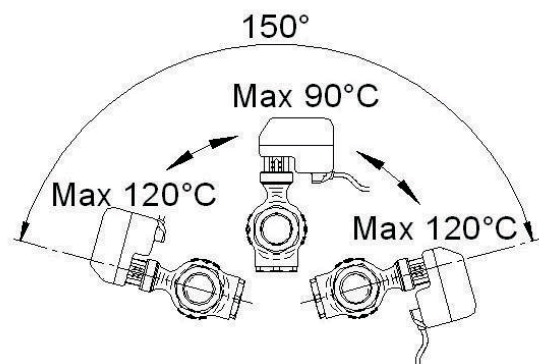
Respect the fluid directions: inlet is labelled by A and outlet by AB

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.).

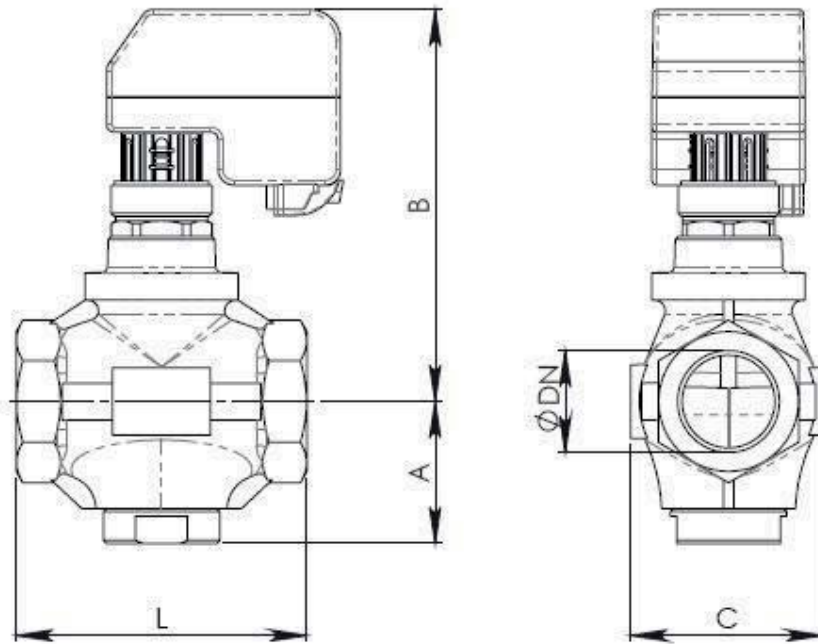
Mount the valves with the actuator in vertical position with fluid temperature up to 90°C. For higher temperatures up to 120°C the valves must be mounted as shown in the following picture:



REFERENCE STANDARD

EN1349 Industrial Process Control Valves
 97/23/EC Pressure Equipment Directive
 EN60534-4 Inspection Test

DIMENSIONS



DN	L [mm]	A [mm]	B [mm]	C [mm]	Weight [Kg]
3/4"	85	43	123	54	1
1"	95	47	128	63	1.4
1"1/4	108	52	133	70	1.9
1"1/2	120	53	137	81	2.4
2"	194	67	142	97	5