Two-way double seat globe valves

2FAA150B/2FGA200B

APPLICATION AND USE

2F.A.B series double seat valves are used to control fluids belonging to group 2 according to the article 9 of 97/23/CE (PED) directive in air-conditioning, thermoventilation and heating plants and in industrial process thermal machines; therefore, they cannot be used as safety valves.
Group 2 regards water, overheated water, glycol added water (50% max), steam.
For different fluids belonging to group 2, please contact our Sales Support.

MANUFACTURING CHARACTERISTICS

They consist in a two-way double seat valve body to be assembled on bidirectional electrical actuator.

TECHNICAL CHARACTERISTICS

MODEL	2FAA150B	2FGA200B
Construction	PN25	PN16
Body	Steel	Cast iron
Seat	Stainless steel	Stainless steel
Plug	Stainless steel	Stainless steel
Stem (Ø 9 mm)	Stainless steel	Stainless steel
Control characteristic	Equal percentage	Equal percentage
Stem packing	Teflon V-ring	Teflon V-ring
Max. fluid temp. °C	230	200
Min. fluid temp °C	-10 (1)	-10 (1)
Connections	Flanged PN25	Flanged PN16
Max. Kvs leakage % Kvs (2)	0,12	0,02

(1) For applications with possible ice formations on stem and gasket, see accessory 248.
(2) Leakage is measured according to the EN1349 standard.

ACTUATORS TECHNICAL CHARACTERISTICS, WIRING DIAGRAMS AND INSTALLATION

See MVH-MVE actuators data sheets and mounting instructions.

INSTALLATION

HYDRAULIC CONNECTIONS

Respect the fluid directions indicated by the arrow on the valve body.

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.

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For installations on plants with high temperature fluids (steam, overheated water, diathermic oil) use expansion joints to avoid the dilatation of pipes to stress the valve body.
Install the valves with the actuator in vertical position for fluid temperature up to 120°C, with higher temperatures they must be mounted horizontally.

NOTE: Following the hydraulic installation it is necessary to check the tight of the stem packing placed on the bonnet, both in cases of low and high temperatures. The valves require periodic maintenance.

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

NOTE: The actuator can be rotated with respect to the valve body by the blocking ring nut; after such operation re-tighten the ring nut.

OPERATION

With stem down the valve is in closed position, with stem up the valve is open.

MOTORIZED VALVES OPTIONS

A150-2 flanges with ANSI 150 bolt holes

ACCESSORIES

248 stem heater for applications with -10 °C low temperature fluid with MVH and MVE actuators.

MAX DIFFERENTIAL AND CLOSE-OFF PRESSURE (kPa)

U-BOLT CONNECTION	DN	KVS	MVH A-AB	MVHA/C* A-AB	MVEX10 A-AB	MVEX15 A-AB
2FAA150B	150	300	1710	290	950	2030
2FGA200B	200	500	1600	370	1200	1600

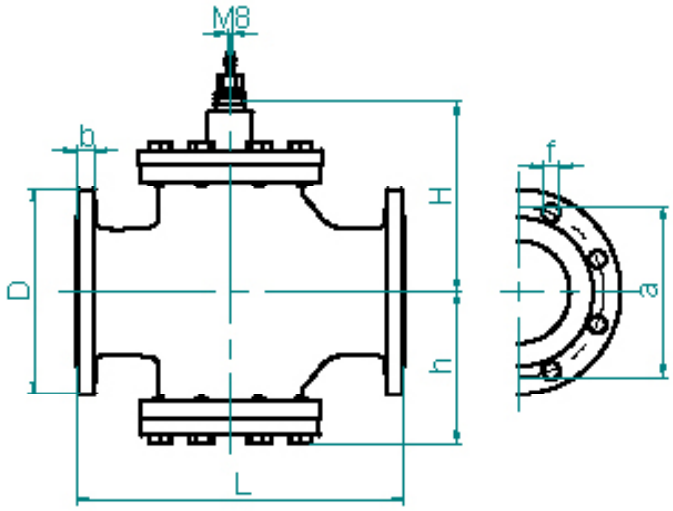
Kvs is the flow rate expressed in m3/h of water at a temperature between 5 °C and 40°C passing through a valve open at nominal stroke under a 100 kPa (1 bar) differential pressure.

* MVHA in emergency opens the valve; MVHC in emergency closes the valve.

Note: The max operating pressures at different temperatures for different PN classes must correspond to the standards UNI1092-2 and UNI12516-1.

Note: In order to avoid wear between plug and seat, we recommend not to overcome the following differential pressures:
2FGA = 600kPa
2FAA = 1200kPa

OVERALL DIMENSIONS (mm)



MODEL	DN	L	H	H	D	B	A	F	HOLES NR.	WEIGHT [Kg]	STROKE [mm]
2FAA.B PN25	150	480	280	224	300	28	250	25	8	83	45
2FGA.B PN16	200	600	334	275	340	30	295	22	12	160	45

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