

MODEL	DN	PN	Kvs* [m³/h]
2FAA25B	25		10
2FAA32B	32		16
2FAA40B	40		25
2FAA50B	50	40	40
2FAA65B	65	40	63
2FAA80B	80		100
2FAA100B	100		160
2FAA125B	125		200

^{*} 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 the nominal stroke, under a 100kPa (1bar) differential pressure.

APPLICATION AND USE

2FAA.B balanced valve bodies are designed for use in air-conditioning, thermoventilation and heating systems and in industrial process and they cannot be used as safety valves. They can be employed to control fluids belonging to group 2 according to the article 13 of 2014/68/UE directive (PED).

Group 2 includes water, overheated water, steam. For fluids belonging to group 2 differing from the ones listed above, please contact our Sales Support.

The peculiar characteristic of such valves is they can operate under high close off pressure and wherever low leakage is required. This makes them particularly suitable in applications with high pressure and high DT, such as overheated water (i.e. remote control, boiler supply) and steam.

MANUFACTURING CHARACTERISTICS

Valve body: Steel

Seat, Plug, Stem: Stainless steel

Balancing gasket: Teflon ring with steel spring

PN40 flanges;

0,02;

-20°C(1);

max 50%;

230°C(2);

1200kPa;

230°C; -20T60°C:

Equal percentage;

see dimensions picture.

Stem packing: Teflon

TECHNICAL CHARACTERISTICS

Connections
Control characteristic
Leakage (% of Kvs)
Allowed fluids:

- water: min. temperature:

glycol added - overheated water: max temp. - steam: max pressure

max temperature Storage temperature: Weight:

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(1) See 248 accessory.

(2) Temperature/pressure ratio according to the standard UNI12516-1.

idards
for hot water heating plant: UNI 9753

Reference standards

Control valves for hot water heating plant: UNI 9753 Flow characteristics: IEC 534-2-4

Leakage: measured according to the EN1349 standard.

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.

For installations on plants with high temperature fluids (steam, overheated water) use expansion joints to avoid the dilatation of pipes to stress the valve body.

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 fortuitous events (fire, earthquakes etc.).

Mount the valves with the actuator in vertical position with fluid temperature up to 120°C. For higher temperatures, the valves must be mounted horizontally, otherwise the use of the MVHT accessory is required.

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

OPERATION

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

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MOTORIZED VALVES OPTIONS

A150-2 Flanges with ANSI 150 bolt holes

A300-2 Flanges with ANSI 300 bolt holes (DN32÷65 and DN100÷125)

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Stem heater for applications with possible ice formation on stem and packing.

MVHT

Valve body actuator spacer to reduce the direct exposure of the actuator when installed on a valve with high temperature fluids.

Dimensions: Ø 120mm; h = actuator height + 102mm.

MAX CLOSE-OFF DIFFERENTIAL PRESSURE [kPa]

U-Bolt Connection	DN	MVH	MVHA/C*	MVE.06	MVE.10	MVE.15	MVE.22
2FAA.B	25R	3000	3000	3000	3000	3000	4000
	251	3000	3000	3000	3000	3000	4000
	25	3000	3000	3000	3000	3000	4000
	32	3000	3000	3000	3000	3000	4000
	40	3000	3000	2760	3000	3000	4000
	50	3000	2810	2100	3000	3000	4000
	65	3000	2040	1490	3000	3000	4000
	80	3000	1550	1100	2960	3000	4000
	100	3000	950	650	1910	3000	3492
	125	2330	660	420	1430	2700	2700

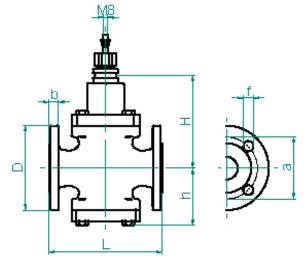
 $100kPa = 1bar = 10m_{H_{a}O}$

MAX REGULATION DIFFERENTIAL PRESSURE [kPa]

The max regulation differential pressure, it means the pressure which can be used during the stroke, is conditioned by wear between seat and plug and by the performance guaranteed by the actuator for the evaluated valve. So we recommend not to overcome the differential pressure whose value corresponds to the minimum between 1200kPa (maximum admitted value not to cause wear) and the one shown in the previous table (max close-off differential pressure).

Note: The max operating pressures at different temperatures for various PN classes must correspond to the following standards: UNI 1092-02 and UNI 12516-1.

DIMENSIONS [mm]



Model	DN	L	н	h	D	b	а	f	Holes n.	Weight [kg]
2FAA.B	25	160	124	84	115	18	85	14	4	11
	32	180	139	99	140	18	100	18	4	16
	40	200	165	102	150	18	110	18	4	18
	50	230	168	106	165	20	125	18	4	21
	65	270	183	125	185	22	145	18	8	30
	80	310	199	149	200	24	160	18	8	44
	100	350	178	172	235	24	190	22	8	53
	125	400	203	210	270	26	220	25	8	83

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



^{*} MVH.A in emergency closes the valve; MVH.C in emergency opens the valve.