ϵ

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 100 kPa (1 bar) 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 9 of 97/23/CE 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	Stainless steel
Stem	
Balancing gasket	Teflon ring with steel spring
Stem packing	Teflon

TECHNICAL CHARACTERISTICS

PN40 flanges Connections Control characteristic Equal percentage

Leakage (% of Kvs) 0,02

Weight See overall dimensions

Application limits on fluids

min. temperature: -20 °C(1) glycol added max 50% Overheated water: max temp. 230 °C(2) Steam: max pressure 12 bar 230 °C max temperature

Reference standards

Control valves for hot water heating plants: UNI 9753

Control characteristics: IEC 534-2-4

Leakage: leakage is measured according to the EN1349 standard.

(1) See 248 accessory.

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



ACTUATORS TECHNICAL CHARACTERISTICS, WIRING

See MVH, MVHA/C, MVF and MVE actuators data sheets and mounting instructions.

INSTALLATION

HYDRAULIC CONNECTIONS

DIAGRAM AND INSTALLATION

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.

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.

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

MOTORIZED VALVES OPTIONS

A150-2 Flanges with ANSI 150 bolt holes

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

ACCESSORIES

MVHT

248 Stem heater for applications with possible ice formation on

stem and packing.

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

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

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Tel.: +39 01073061 Fax: +39 0107306870/871 E-mail: info@controlli.eu Web: www.controlli.eu

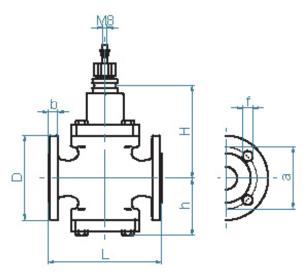
ISO 9001

U-Bolt Connection	DN	MVH	MVHA/C	MVF58	MVF515	MVF59A/C*	MVEX06	MVEX10
2FAA.B	25R	3000	3000	3000	3000	3000	3000	3000
	251	3000	3000	3000	3000	3000	3000	3000
	25	3000	3000	3000	3000	3000	3000	3000
	32	3000	3000	3000	3000	3000	3000	3000
	40	3000	3000	3000	3000	3000	2760	3000
	50	3000	2810	3000	3000	3000	2100	3000
	65	3000	2040	2540	3000	3000	1490	3000
	80	3000	1550	1960	3000	-	1100	2960
	100	3000	950	1230	3000	-	650	1910
	125	2330	660	890	2620	-	420	1430

^{*} MVHA in emergency opens the valve; MVHC in emergency closes the valve.

NOTE In order to avoid wear between plug and seat, we recommend not to overcome the differential pressure of 1200 kPa.

OVERALL DIMENSIONS (mm)



Model	DN	L	Н	h	D	b	а	f	Holes nr.	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 due to design improvements

