DIVERT PRO

3 Port Diverter Valves

Important: Keep this document

The B32_DIV domestic range of valves have been designed for the use in heating systems with both hot water cylinders and heating circuits.

CAUTION! Installation and connection should only be carried out by a qualified person and in accordance with wiring regulations.

- Do not close the products. There are no serviceable or adjustable parts inside. The system must be fused to no more than 8 Amps.
- Isolate mains supply before installation commences.
- If this equipment is installed or used in a way not specified by the manufacturer, its safety may be impaired.

TECHNICAL SPECIFICATION

MODEL	COMPRESSION	Kvs(m^3/h)	MAX CLOSE OFF PRESSURE (BAR)	
B322DIV	22 mm	7.1	1.6 (Port A)	1.2 (Port B)
B328DIV	28 mm	7.6	1.2 (Port A)	0.8 (Port B)

ACTUATOR		VALVE	
Motor supply voltage	230V	Max. static pressure	21 Bar
Rated impulse voltage	2500V	Max. operating pressure	21 Bar
Power consumption	5W	Permanent operating temperature	2 ... 88˚C
Max. ambient temperature	50˚C		
Protection rating	IP20		
Impedance protected motor			

LEAD SUPPLIED	1.2 metre cable, 3 core. Earth Connection required.
ACTUATOR OPERATION	230V Power to open Port A - Spring return to close Port A.
	This control is designated Type 1. AA. in accordance with EN60730.
	Type of action is multi position. Type of movement is rotary.
MANUAL OVERRIDE	Valve may be manually opened for filling or draining the system.
	In normal operation, the lever must be in the Auto position
	If the mains power is disconnected, the valve will automatically spring return to the closed position (Port A Closed) (Port B Open)

1. Valve positioning

Install the valve so the actuator head is not below the horizontal level of the pipework. The flow must be in the direction from the centre Port AB to either Port A or Port B.
In a heating and hot water system, please ensure that the valve is fitted on the flow pipe only.

IMPORTANT NOTE

When installing the B322_DIV with a heatpump. Hot water will be on Port A. Port A will face the hot water cylinder. Ensure the heatpump is powering the diverting valve when there is a hot water demand.

To comply with G3 Building Regulations. When installing with an unvented cylinder, Port A must be used for the hot water connection to the cylinder heat exchanger and Port B for the central heating connection.

2. Removing the actuator from the valve body

To remove the actuator head from the valve body ensure that the manual override lever is in the manual position. Loosen the screw on the side of the actuator. Remove the actuator cover. Loosen the two screws that fix the base to the valve body. Remove the actuator from the valve body.

3. Fitting the valve body to the pipework

Fit the valve body using the nuts and olives provided. When tightening the compression nuts ensure that only the valve body is used for grip. Take care not to overtighten.

4. Fitting the actuator to the valve body

Before fitting the actuator, please ensure that the manual override lever is in the raised manual position. The actuator is mounted by aligning the 4mm flat spindle on the valve body to the identically sized slot on the actuator. Tighten the two fixing screws on the base of the actuator. Fit the actuator cover and tighten the screw to hold the cover in place.

Once the valve is fitted, place the manual override lever in the raised manual position. It is now possible to flush and drain the system to remove any foreign matter. The system can now be refilled and corrosion inhibitor may be added if required.

Return the manual override lever to the auto position.

5. Wiring Connections

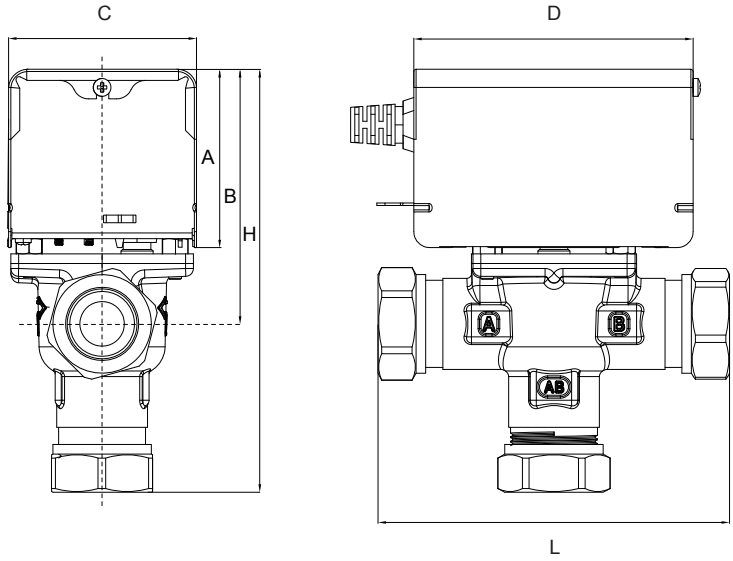
5.1 The 1.2 metre cable can be connected as follows:

WIRE COLOUR	DESCRIPTION
Blue	Neutral supply
Brown	Motor **ON** - Port A opens
Yellow / Green	Earth connection

5.2 For use as a Diverting Valve, see table below:

ELECTRICAL CONNECTION	CABLE CONNECTION	VALVE POSITION
0V connected	Brown core	"Port B" open. (Normally Open)
230V connected to	Brown core	"Port A" open.

Product Drawing B32_DIV



VALVE TYPE	L	H	A	B	C	D
22mm compression	111	134	56	79	60	88
28mm compression	114	136	56	79	60	88

CAUTION!

- Ensure that no more than a 3A fuse is used to supply all controls.
- It is not permissible to use any voltage other than 230V with this actuator.
- Electrical installation must conform with current I.E.E. regulations.
- Under no circumstances should the actuator be insulated or covered by any other material.
- Lack of ventilation will cause the actuator to heat up beyond the maximum permissible ambient temperature of 50˚C.

The crossed out wheelie bin symbol on this product indicates that this product must not be disposed of in your general waste. It can be taken to your Local Authority Civic Amenity site for free or returned to your retailer for free when you are buying a replacement. Inappropriate waste handling could lead to negative effects on the environment and human health. With your cooperation you contribute to the correct disposal, reuse, recycling and recovery of the components of this product and the protection of the environment.

EPH CONTROLS

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