

COMMISSIONING

CENTRAL HEATING ONLY.

Set the cylinder thermostat to minimum or turn the HW off at the programmer.
Set the room thermostat to maximum and turn the CH on at the programmer.
The valve should close Port B. The boiler should fire, pump run and the pipe on the Port A side should get hot.

HOT WATER AND CENTRAL HEATING.

Set the room and cylinder thermostat to maximum and turn the HW and CH on at the programmer.
The valve should be in the mid-position. The boiler should fire, pump run and the pipes on both Port A side and Port B should get hot.

Reset both thermostats and the programmer to their normal settings.

Please note the above assumes that both programmer and thermostats are being used. If this is not the case, ignore the action described for the item not fitted.

ZONEPLUS F328m / F328e
INSTALLATION AND
COMMISSIONING INSTRUCTIONS



HORSTMANN

The F328m / F322e valve with auxiliary switch has been designed to control the water circulation in fully pumped systems, which employs a single pump for both Hot water and Central heating circuits, by allowing the flow to either or both circuits.

INSTALLATION AND CONNECTION SHOULD ONLY BE CARRIED OUT BY A SUITABLY QUALIFIED PERSON AND IN ACCORDANCE WITH THE CURRENT EDITION OF THE I.E.E. WIRING REGULATIONS. A CLASS 'A' SWITCH (HAVING CONTACT SEPARATION OF AT LEAST 3MM IN ALL POLES) MUST BE INCORPORATED IN THE FIXED WIRING AS A MEANS OF DISCONNECTING THE SUPPLY, NORMALLY AT THE CONSUMER UNIT. THE SYSTEM MUST BE APPROPRIATELY FUSED.

WARNING : ISOLATE MAINS SUPPLY BEFORE COMMENCING INSTALLATION

SPECIFICATION

Motor supply voltage: 230V AC, 50Hz

Power consumption: <6.5W

Lead supplied: 1 metre 5 core cable. Industry standard colours used

Earth connection required.

Olive Size: F228m - 28mm (Metric)

F228e - 1 1/4 inch (Imperial)

Operating flow temperature: Up to 80°C

Switch rating: 5 Amps

Maximum ambient temperature: 50°C

Maximum static pressure: 21 Bar

Maximum differential pressure: 2 Bar

Pipe fitting size: 28mm compression

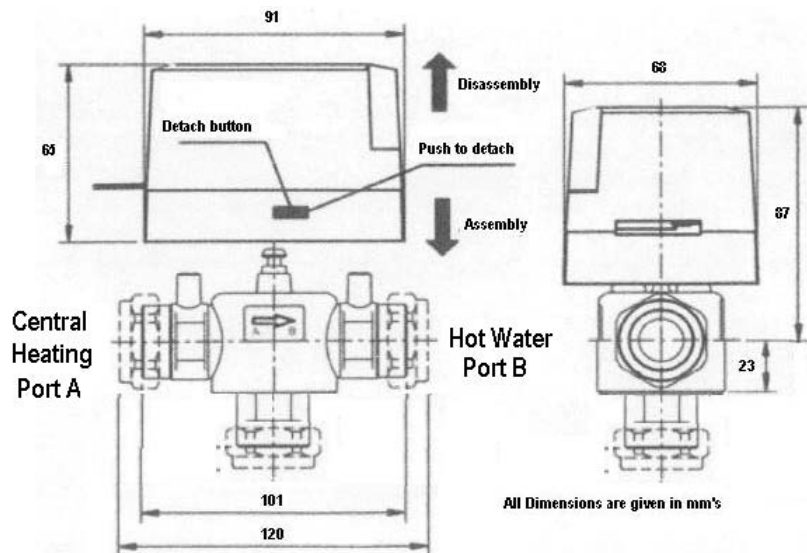
Actuator: Maximum time to power open - 20 seconds

Maximum time to spring close - 10 seconds

Override lever: For manual operating to open valve for system draining or filling.
During normal operation, the lever must be in the auto position.



OPERATION



Valve position - In the event that mains power is disconnected the valve automatically spring-returns to the Hot Water only position (Port A).

INSTALLATION AND OPERATING INSTRUCTIONS

POSITIONING OF VALVE

On new installations fit the valve ensuring that the actuator head is NOT below the horizontal level of the pipework and that flow is in the direction of the arrow. Also check that neither the open vent or the cold feed are isolated. This will ensure system and product safety at all times.

Remember to make allowances for working, maintenance and replacement.

FITTING OF VALVE BODY TO PIPEWORK

Fit the valve body using the compression fittings provided.

Tighten the compression nuts sufficiently to make a watertight seal, only gripping the valve by its body. **Take care not to over tighten.**

FITTING OR REMOVAL OF ACTUATOR TO VALVE BODY

PLEASE NOTE; Before beginning the installation, or any subsequent removal of the actuator, please ensure that the override lever, located on the side of the actuator is in the raised bypass position.

Position the actuator on the valve body, taking care to line up the 4mm flat spindle, located on the valve body, with the receiving shaped slot located on the underneath of the actuator.

The actuator guide holes should line up with the spigot on the valve body.

The actuator locking mechanism will click into place, locking the head to the valve body.

Set the override lever to manual. Fill, test and thoroughly flush the system (See instruction under the Specification section located on page 4 of this guide).

To remove the Actuator from the valve body please ensure that the override lever is placed in the override position.

WIRING CONNECTIONS

The 5 core cable fitted to the actuator can now be connected to the system following the simple colour-coded guide below.

Wire Colour	System Connection
Blue	Any Neutral supply.
Orange	'Call' terminal of Cylinder stat if fitted, otherwise the HW ON terminal of the programmer - Also link to Pump/Boiler live.
White	'Call' terminal of room stat if fitted, otherwise the CH ON terminal of the programmer
Grey	'Sat' terminal of Cylinder stat if fitted, otherwise the HW OFF terminal of the programmer
Yellow / Green	Earth terminal of the wiring centre

An earth connection is required on the F328m and F328e valve. Ensure all connections are good and the screws secure. A torque of 0.75Nm is recommended for fixing the wires in place.

NOTE: In the event that the F328m or F328e is being used in an unconventional system, the above connections may be incorrect. In this case, please seek advice.

To check whether the valve is operating correctly, carry out the following checks after the system is filled and vented. Ensure that the override lever is back in the Auto position and the insert guide is removed.

HOT WATER ONLY.

Set the room thermostat to minimum or turn the CH off at the programmer.

Set the cylinder thermostat to maximum and turn the HW on at the programmer.

The valve should close Port A. The boiler should fire, pump run and the pipe on the Port B side should get hot.