

AUTOMATIC BYPASS VALVE

81004010

FEATURES

- Unique and simple adjustment mechanism.
- High capacity flow up to 83 litres per minute.
- Wide differential pressure range 0.1 bar to 0.5 bar.
- 22mm Compression fittings for ease of installation.
- Reduces system noise and maintains an even system pressure.
- Ensures constant flow through boiler.
- Lockable set pressure prevents inadvertent adjustment.



APPLICATION

The 81004010 Automatic Bypass Valve is suitable for all heating systems up to 10 bar static pressure where a boiler bypass is required or radiator thermostats are fitted.

The 81004010 provides a simple method of ensuring adequate flow through boilers which require a bypass as well as reducing system noise.

In systems fitted with radiator thermostats, the 81004010 Automatic Bypass Valve opens automatically as the TRVs or zone valves close down and the resistance of the system starts to exceed the preset pressure limit.

Automatic bypass valves are particularly beneficial in improving efficiency by bypassing the system when necessary and also improving control of the system fitted with TRVs by ensuring a constant differential pressure across the radiator.

NON ELECTRIC CONTROLS

BIWORLD

■ Installation

The 81004010 should be fitted immediately after the pump between the flow and return. Pipework should be 22mm to accommodate maximum capacity and flow should be in the direction of the arrow marked on the body.

■ Ordering Specification

81004010 22mm Compression
Automatic bypass valve with 22mm compression fittings, lockable adjustment knob and set pressure indicator.

■ Functions

81004010 Automatic bypass valve can serve two functions:

- As a boiler bypass as required by boiler manufacturers.
- As a system bypass to accommodate pump overrun and to alleviate system noise that can be caused by increased pressures when TRVs or zone valves close down.

■ Specification

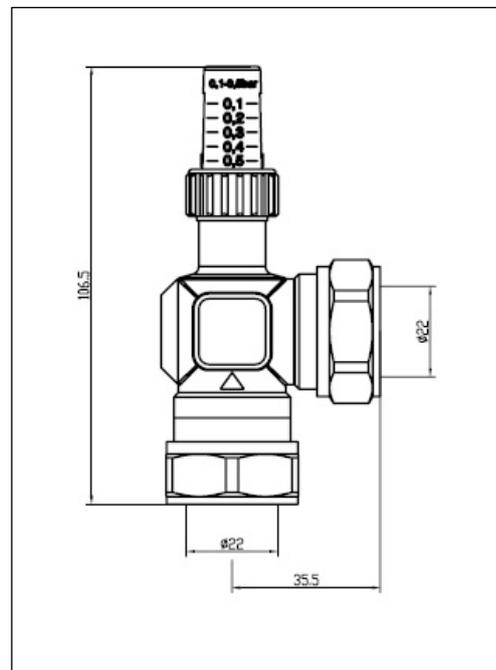
Working pressure	: 10 bar max
Working temperature	: 100°C max
Capacity	: 1-5m ³ /hr
Connections	: 22mm compression
Range	: 0.1 bar to 0.5 bar differential pressure

■ Locking

Once set, the valve can be locked in position by tightening the screw in the cap.

Scale	1	2	3	4	5
	0.1	0.2	0.3	0.4	0.5

■ Dimensions (mm)



FLOW RATE

