



ENGLISH

Datasheet

Pressure Relief Valve, 3bar 3/4in

RS Stock number 246-3289



Description:

An automatic by-pass valve for use on all systems fitted with TRV's or those which require a by-pass to maintain an optimum flow rate through the boiler.

The automatic by-pass maintains system efficiency by responding to the changing resistances within the system as TRV's or zones open and close, effectively protecting the pump.

The automatic by-pass valve

- * is provided with 22mm compression fittings.
- * has an operating range of 0.1 - 0.5Bar.
- * is provided with visual indication of setting range.
- * has non-metallic seating arrangement.
- * is locked in setting position by a locking screw.
- * has full installation instruction for use.
- * is compact in size.
- * is of attractive design.
- * is able to be installed into systems up to 250,000 Btu/hr (73kW).



APPLICATION

The DU145 Automatic Bypass Valve is suitable for all heating systems up to 6Bar static pressure where a boiler bypass is required or radiator thermostats are fitted.

The DU145 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 DU145 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.

■ Installation

The DU145 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

DU145 - 3/4 B 22mm Compression

Automatic Bypass Valve with 22mm compression fittings, lockable adjustment knob and set pressure indicator.

■ Specification

Working Pressure	: 6Bar max
Working Temperature	: 110°C.
Capacity	: 3M ³ HR
Connections	: 22mm Compression
Range	: 0.1Bar to 0.6Bar 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	6
	0.1	0.2	0.3	0.4	0.5	0.6

■ Ordering Specification

DU145 - 3/4 B 22mm Compression

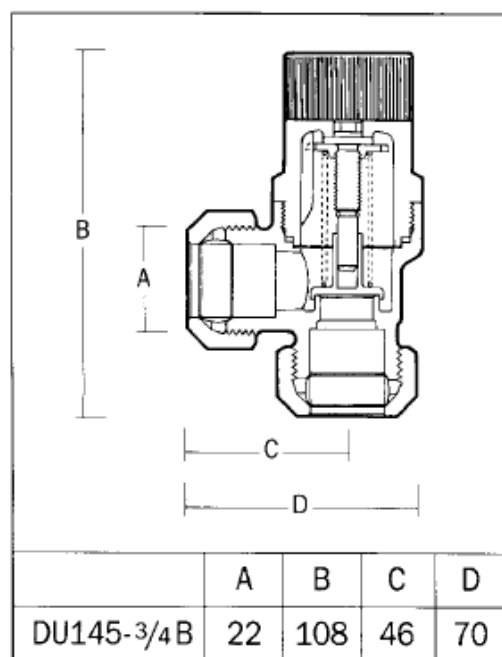
Automatic Bypass Valve with 22mm compression fittings, lockable adjustment knob and set pressure indicator.

■ Functions

DU145 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.

■ Dimensions (mm)



■ Specification

Working Pressure	: 6Bar max
Working Temperature	: 110°C.
Capacity	: 3M ³ HR
Connections	: 22mm Compression
Range	: 0.1Bar to 0.6Bar 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	6
	0.1	0.2	0.3	0.4	0.5	0.6

■ Flow Chart

