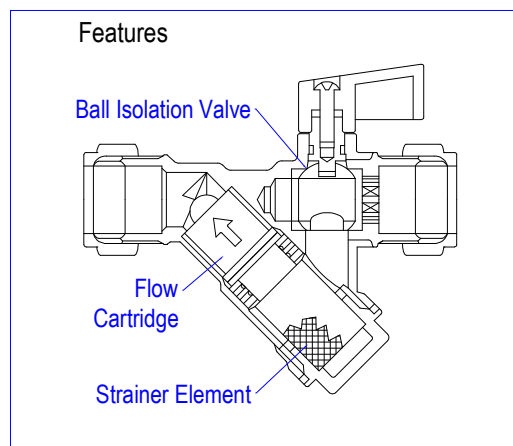
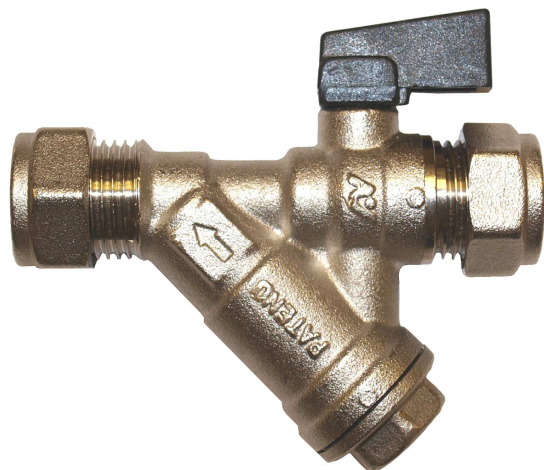


# COMBINATION VALVE FLOW REGULATION/STRAINER



## DESIGN

Combined into one valve body are a ball isolating valve, a strainer and automatic flow regulating valve, saving assembly time and space.

Flow regulation is achieved by pre-selecting the appropriate automatic flow cartridge to maintain a constant flow of water to a tap, mixer, shower or thermostatic mixing valve.

By pre-selecting the flow cartridge to match the desired flow from the outlet savings in water consumption are easily achieved.

## FEATURES

The main benefits of this series when used in hot, cold and mixed supply pipes are:-

- Isolation of outlet fittings should maintenance be required at some time in the future and when the strainer element requires cleaning.
- The generously proportioned strainer element provides particle and debris collection to protect the outlet fitting, without continuously becoming clogged and restricting the water supply.
- The automatic flow cartridge allows a continuous and constant flow of water at the desired flow rate and prevents overflow from occurring.
- The cartridge is easily replaced should the incorrect flow rate be selected.

## CONSTRUCTION DETAILS

- The body is constructed from brass with compression ends complying with BS EN 1254-2\*
- The cartridge is made of high resistance polymer to withstand a wide range of temperatures.
- The strainer screen is manufactured from 316 austenitic stainless steel.
- Ball valve with PTFE seals for reliable isolation.
- Hard chrome plated ball for increased wear resistance.
- Nitrile rubber 'O' ring seals

\*Use with R250 (half hard) copper tube

## INSTALLATION

The series is very simple to install with just two compression joints to make.

The flow through the valve must follow the direction of the arrow of the valve body.

The valve should be installed with the ball valve lever upper most for maximum efficiency of the strainer.

Sufficient clearance must be allowed for removal of the strainer cap (18mm A/F) and removal of the strainer element for cleaning.

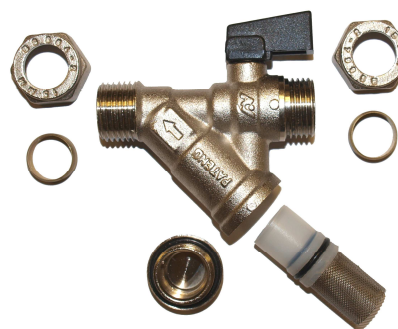
## MAINTENANCE

The only recommended maintenance is that periodically the strainer element is removed and cleaned.

## TECHNICAL DATA

Maximum static pressure:	15 bar
Maximum inlet pressure:	2 bar **
Maximum working temperature:	100°C
Start up differential pressure:	15 kPa
Differential pressure gauge:	15 to 200 kPa
Flow accuracy:	±10%
Strainer mesh size:	400µ- 0.4mm
Connections—Compression:	15 & 22mm

\*\*For pressures higher than 2 bar a pressure reducing valve may need to be installed.



By selecting the appropriate cartridge significant savings in water consumption can be achieved. Using in conjunction with timed or electronic taps, controllers and showers additional savings can be achieved.

### Additional application:

The series can be used in low temperature systems on the flow fan coil units.

The automatic flow regulating cartridge automatically balances the flow and eliminates the need for commissioning.

Flow Rate l/m	Product code		Typical Application
	DN15	DN22	
	AI 811215	AI 811222	Valve body only
4	AI 81121504	AI 81122204	Basin tap pillar or mixer
6	AI 81121506	AI 81122206	Basin tap timed or electronic
8	AI 81121508	AI 81122208	Timed shower
10	AI 81121510	AI 81122210	Thermostatic Shower
12	AI 81121512	AI 81122212	Shower—Bidet—Kitchen Tap G½
15	AI 81121515	AI 81122215	
18	AI 81121518	AI 81122218	Bath G¾ - Kitchen tap G¾

 **FLOW MECH** *Products Ltd*

Abbey House, Charter Street, Leicester. LE13UD

Tel: 0116 242 5425. Fax: 0116 242 5555

Email: info@flowmech.co.uk www.flowmech.co.uk