

FLOW MEASUREMENT



COMMISSIONING VALVES RANGE

FLOW MEASUREMENT PRODUCT DETAILS

Pettinaroli UK Terminator® is a range of manual balancing valves (also known as commissioning valves) which comprises of a standard flow and low-flow combination venturi and regulating ball valve as well as a standalone regulating ball valve with memory stop and position indicator for installation on by-pass duty.

FLOW MEASUREMENT PRODUCT RANGE

Terminator® range includes:

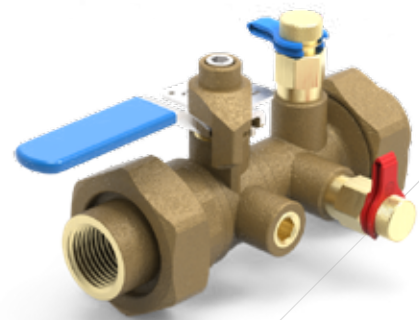
TCV90 – Standard flow commissioning valve, size range 15mm (½") to 50mm (2")

TCV94 – Low flow commissioning valve, available in 15mm (½") size only

FR59 – Filtermate® Regulator ball valve with memory stop and indicator

TCV90 STANDARD FLOW

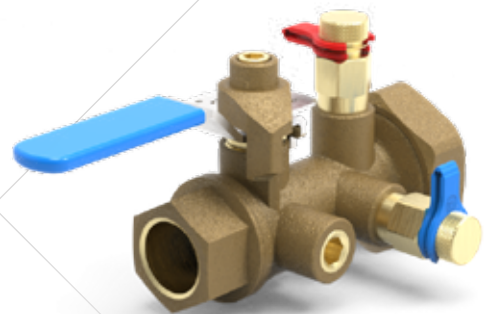
Pettinaroli UK Terminator® uses a regulating ball valve with an integrated venturi for flow measurement. This design combination ensures **high accuracy of flow measurement and balancing** across all valve settings.



TCV94 LOW FLOW

The **low flow Terminator®** offers high control and regulation when dealing with low design flow rates.

The Terminator Profile balancing valve has been designed to add resistance and so control the flow as soon as the handle is turned. The result is that **the relationship between the closing of the valve and the resistance is virtually linear** over the complete operation of the valve.

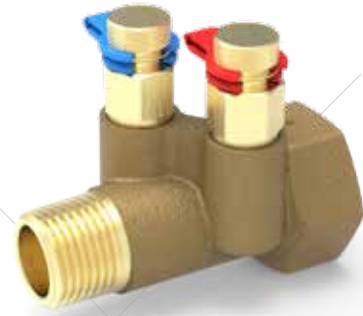


FEATURES & BENEFITS

- ✓ Quarter Turn
- ✓ Accuracy of flow measurement to within +/-3%
- ✓ Regulation, isolation and flow measurement in one
- ✓ Triple sealed stem protection
- ✓ Internal spindle assembly prevents stem blow out
- ✓ Double body connection seal
- ✓ Union connections
- ✓ Air vent tapping in the body
- ✓ Air vents available as an accessory
- ✓ Threaded end connections ISO 7/1 Rc – (BSP female taper thread)

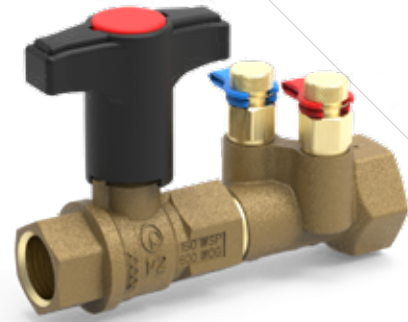
TICV

The interchangeable valve is a **single DZR brass body valve** which includes venturi flow measurement, complete with test points. Connections are **BSP female threads**. Venturis are also easily interchangeable and available in a number of sizes from 3-12mm and the body is available in 1/2" and 3/4".



FMV

The flow measurement valve is a **single DZR brass body valve combined with isolation**, which includes venturi flow measurement, complete with test points. Connections are **BSP female threads**. Venturis are also easily interchangeable and available in a number of sizes from 3-12mm and the body is available in 1/2" and 3/4".



FEATURES & BENEFITS

- ✓ Easily interchangeable venturi
- ✓ Isolation and flow measurement in one
- ✓ Air vent tapping in the body
- ✓ Air vents available as an accessory
- ✓ Threaded end connections ISO228 G - (BSP female parallel thread)

VENTURIS

A **venturi** is a device for measuring flow either integrated into a commission set or used independently in a circuit or sub-circuit.

An added benefit of using a venturi is that **a significant proportion of the pressure loss is recovered after flow has passed through it**. Typically, venturis give a higher signal for a given flow rate and have much better pressure recovery than other measuring devices, such as orifice plates, especially at lower flow rates. High pressure and energy recovery makes the venturi suitable where only small pressure head is available.

Uniquely, the **Terminator® TCV series** is offered with a selection of venturis dependant upon the flow rates required.

The standard flow TCV 90 range has an option of two venturis in each valve size from 1" to 2" (covering a multiple range of Kvs from 3.04 to 42) whilst the TCV 94 Low Flow valve has options for three venturis (covering Kvs from 0.36 to 1.38).





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