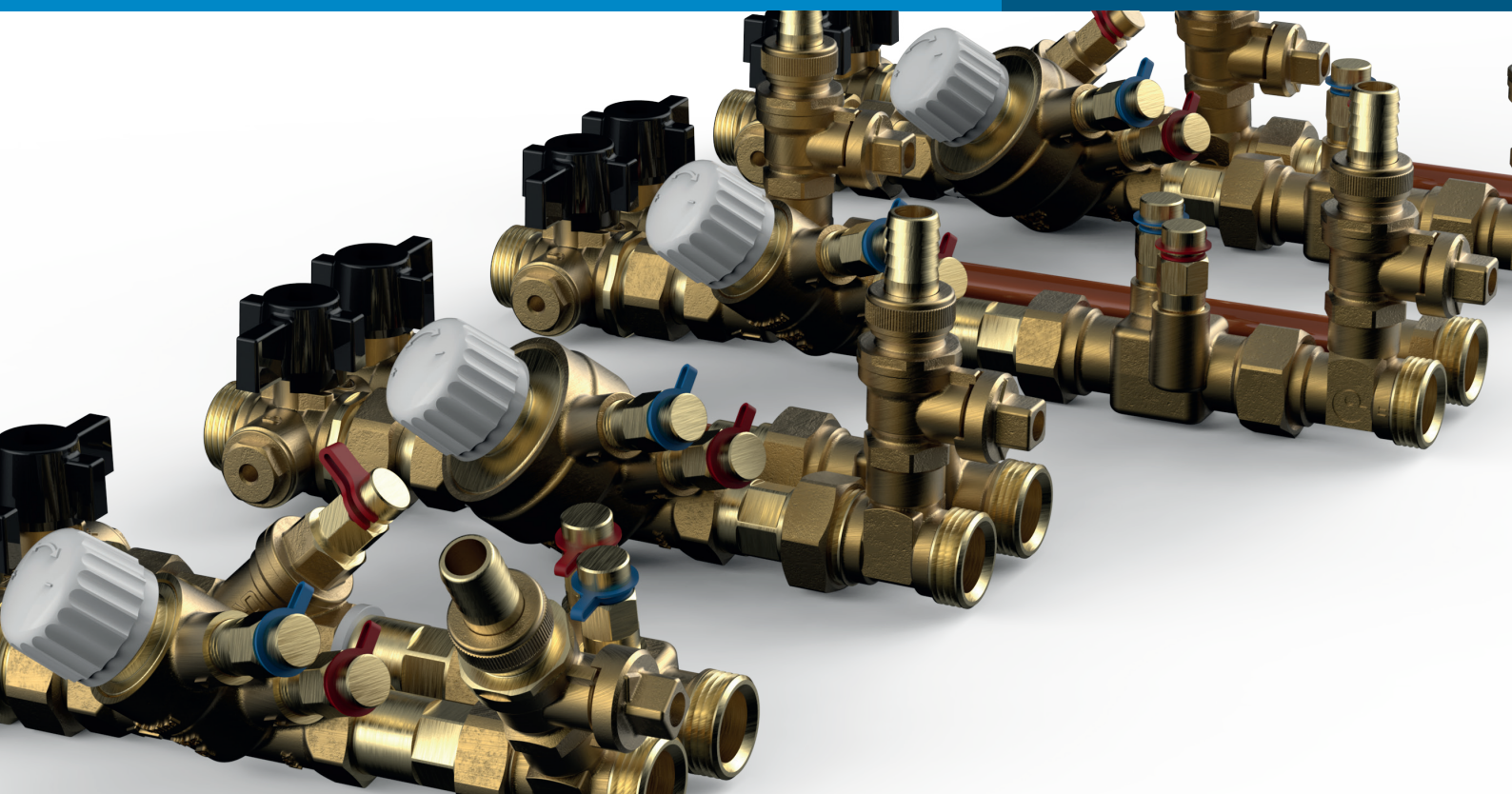


VORTEX 4

VALVE ASSEMBLIES



Engineered **terminal unit connection sets** for the **flow limitation and temperature control** of terminal units in heating and chilled water systems



Commissioning kits for terminal units

Pettinaroli's versatile range of **valve assemblies for fan coils, chilled beams and other hydronic terminal units** offers significant **benefits over standard products** - for specifiers, installers, commissioning engineers and building operators/ owners.

The valve assembly is a **modular approach** to meeting the flushing, flow balancing, isolation, and temperature control requirements of each terminal unit.

Pettinaroli's pre-fabricated valve assemblies ensure that **everything required** for a successful connection is **supplied in one package**. Furthermore, off-site assembly and testing **reduces site time and virtually eliminates costly failures**.

Units are available in manual/automatic/pressure independent characterised control valves, offering **different levels of functionality to meet the needs and budgets of each project**, whilst sharing the high quality that is synonymous with the Pettinaroli name.

DESIGNERS & SPECIFIERS

Fewer components for each project.

Flexibility in the type of pipe specified.

Choice of valve location, close coupled with terminal unit, or mounted in pipework.

INSTALLERS

Everything required for a successful connection assembly to a terminal unit is **supplied in one package**.

Fewer components to be ordered for each project.

Each unit can be **tagged and individually identified** to each terminal unit.

The unit may be orientated in the **horizontal or vertical** plane on site.

Euroconus connections allow various pipe types and diameters to be used for the runs connecting terminal units.

COMMISSIONING & MAINTENANCE

All valves required for commissioning of the terminal unit are **in one location**.

Insulation boxes (available on request) can be opened and re-sealed in seconds with no damage to pipe lagging.

Automatic balancing valves reduce commissioning time to flushing and verification.

Pressure independent valves offer **full authority temperature control and maximum flow rate limiting**.

BENEFITS

✓ **CONNECTING KIT FOR TERMINAL UNITS** (fan-coils, chilled beams and air handling units)

✓ **REDUCED ON-SITE LABOUR TIME**

✓ **FACTORY TESTED FOR MINIMUM LEAKAGE RISK**

✓ **MADE IN UK WITH ITALIAN TECHNOLOGY AND ENGINEERING**

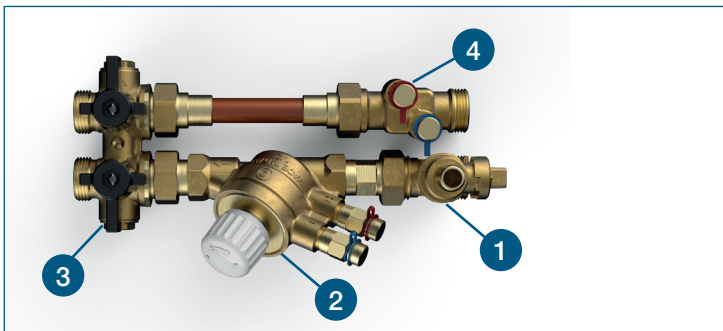
✓ **FLEXIBLE AND BESPOKE CONFIGURATIONS** (automatic, manual balancing)

✓ **NO FLUSHING THRU CONTROL VALVE** (100% safe)

FEATURES

- ✓ AVAILABLE IN BG 29 AND COMPACT VARIETIES
- ✓ DIRT RESISTANT PIC VALVE AS STANDARD
- ✓ HIGHEST KVS AND LOWEST RESISTANCE FLUSHING BYPASS ON THE UK MARKET AS STANDARD
- ✓ COMPONENTS DESIGN FOR OPTIMAL MAINTENANCE, CHANGEABLE AND REUSABILITY
- ✓ FEATURES A FULL BORE DRAIN TO ENSURE HIGH FLUSHING VELOCITY AS STANDARD
- ✓ ADDITIONAL OPTIONS AVAILABLE (AIR VENT, STRAINERS ETC)

VORTEX 4 Compact



1
Full Bore Drain



2
Dirty resistant PICV



3
High Kvs
Flushing Bypass

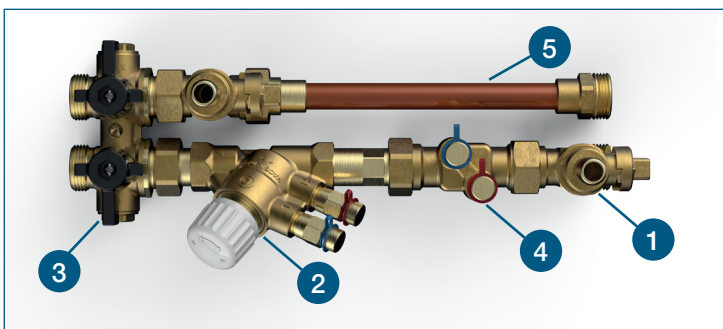


4
On site cleanable Venturi
Metering Station

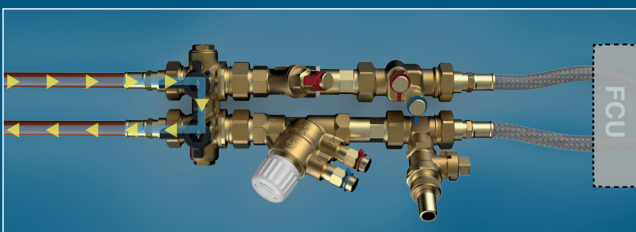


5
Copper pipe with Tee and
Bypass at similar free area
as the pipe diameter

VORTEX 4 29



FLUSHING OF MAIN PIPE LINE



FULL CLOSE



FORWARD FLUSHING



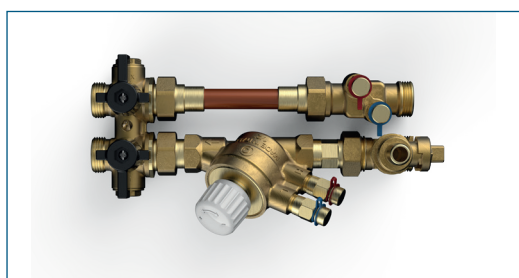
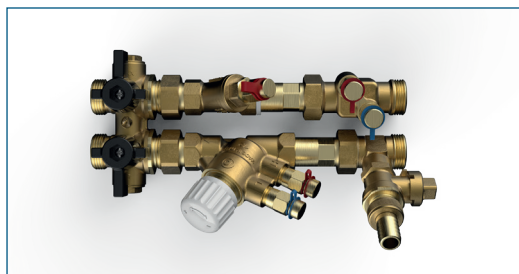
READY FOR COMMISSIONING



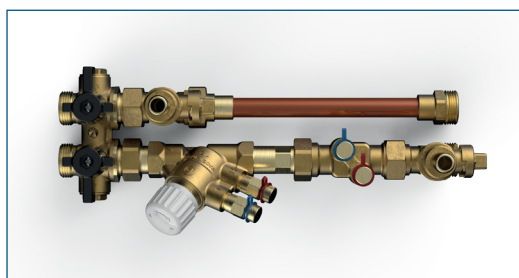
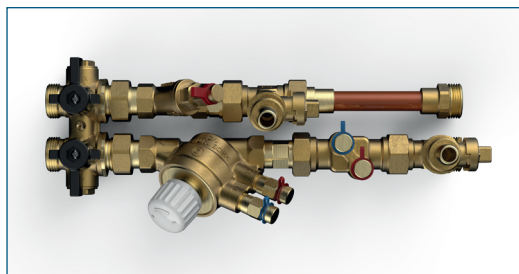
VORTEX 4

VORTEX4 RANGE CONFIGURATOR

VORTEX 4 Compact Series



VORTEX 4 29 Series



VX4 D 1 R C L A 0

VALVE SET OPTIONS

0 - Standard
D - Double drain & Y strainer
E - Double drain
G - Added test points, double drain & Y strainer
I - Added test points, double drain, AAV & Y strainer
J - Double drain, strainer & AAV
K - AV & Strainer
M - Manual air vent
P - Double drain & additional test point
Q - Double drain & manual AV
S - Y strainer

VENTURI SIZE

0 - No Venturi
A - 3 mm
B - 4.25 mm
C - 6 mm
D - 7.5 mm
E - 9 mm
F - 10.5 mm

UNIT HANDLING

L - Left
R - Right
H - Horizontal left (Handles upwards)
K - Horizontal right (Handles upwards)
M - Horizontal left (Handles downwards)
N - Horizontal right (Handles downwards)

SERVICE TYPE

C - Cooling (Blue)
H - Heating (Red)

VALVE SET CONFIGURATION

R - PICV in return, TICV on opposite leg
F - PICV in flow, TICV on opposite leg
A - PICV in return, TICV after
B - PICV in return, TICV before

VALVE LINE SIZE AND FLOW TYPE

1 - VL.04
2 - L.04
3 - H.04
4 - L.06
5 - H.06

VALVE TYPE

B - 91 PICV
D - 92 PICV

40 MM VX4 UNIT



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