

Terminal Unit Valves

Features



- Suitable for water or glycolic water
- 1½ million cycle U-cup packing cartridge
- Maintenance free
- High and low Kvs of each size
- All metal movement, no plastic parts

Specification

Media	Hot & cold water with up to 50% Glycol		
Medium temperature	0 to 120°C		
Turndown ratio	50:1		
Nominal pressure	PN25		
Maximum Δ pressure	3.5bar		
Connections (not included):	2, 3-port ½" BSP or ¾" BSP 4-Port 15mm Conex® or similar compression fitting kit		
Stroke length:			
2-Port	4mm		
3-Port	2.8mm		
4-Port	up to 2.60k _{vs}	2.8mm	
	3.00k _{vs}	4mm	
Materials:			
Body	Low zinc bronze, alloy C84400		
Stem	Stainless steel		
Packing	Double EPDM		
Disc/plunger	EPDM / brass		
Leakage	100% tight shut-off		
Country of origin	Canada		

Product Codes

Please see page 2 for product codes

Product Codes

2-Port Union valves:

VT-2P-15-01

15mm 2-Port valve, k_{vs} 0.43 (Equal Percentage)

VT-2P-15-02

15mm 2-Port valve, k_{vs} 0.86 (Equal Percentage)

VT-2P-15-03

15mm 2-Port valve, k_{vs} 1.30 (Equal Percentage)

VT-2P-15-04

15mm 2-Port valve, k_{vs} 1.72 (Equal Percentage)

VT-2P-15-05

15mm 2-Port valve, k_{vs} 2.15 (Equal Percentage)

VT-2P-15-06

15mm 2-Port valve, k_{vs} 2.58 (Equal Percentage)

VT-2P-20-07

20mm 2-Port valve, k_{vs} 2.58 (Equal Percentage)

VT-2P-20-08

20mm 2-Port valve, k_{vs} 3.87 (Linear)

3-Port Union valves (Diverting only):

VT-3P-15-01

15mm 2-Port valve, k_{vs} 0.43 (Equal Percentage)

VT-3P-15-02

15mm 2-Port valve, k_{vs} 0.86 (Equal Percentage)

VT-3P-15-03

15mm 2-Port valve, k_{vs} 1.72 (Equal Percentage)

VT-3P-15-04

15mm 2-Port valve, k_{vs} 2.58 (Equal Percentage)

VT-3P-20-05

20mm 2-Port valve, k_{vs} 3.10 (Linear)

4-Port Compression valves (Diverting only):

VT-3P-15-01

15mm 2-Port valve, k_{vs} 0.86 (Linear)

VT-3P-15-02

15mm 2-Port valve, k_{vs} 1.70 (Linear)

VT-3P-15-03

15mm 2-Port valve, k_{vs} 2.6 (Linear)

VT-3P-15-04

15mm 2-Port valve, k_{vs} 3.0 (Linear)

Technical Overview

These terminal unit valves, are designed and provide a high quality long lasting solution for control of hot or chilled water applications with up to a 50% glycol mix. They are suitable for fan coil units, small re-heaters and re-coolers in temperature control systems. They have replaceable interchangeable cartridges that can be changed without removing the valve from the line.

They are used in combination with the VT-24, VT-SR (2, 3-port valves only) and VT-TA range of actuators.

Installation

Before mounting the valve be sure that the pipes are clean and free from swarf.

It is essential that all pipes are lined up squarely with the valve at each connection and are free from vibrations.

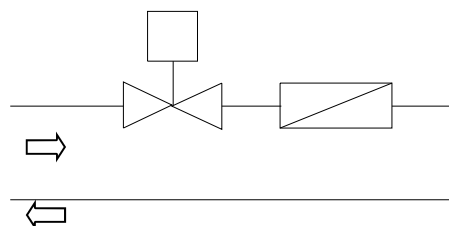
Install the valve so that the actuator will be mounted in a vertical or horizontal position but not upside down.

Leave sufficient clearance to allow the dismantling of the actuator from the valve body for maintenance purposes.

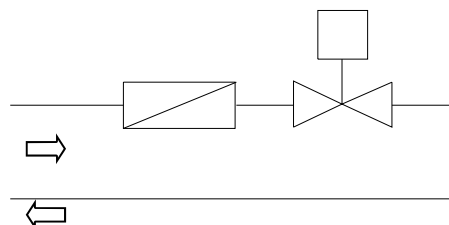
Piping Examples

2-Way:

Valve installed on the supply side of the coil



Valve installed on the return side of the coil



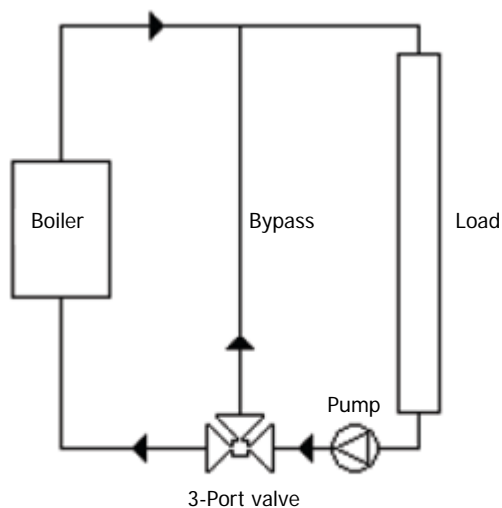
VT-2P valves are normally open

Stem up Valve open

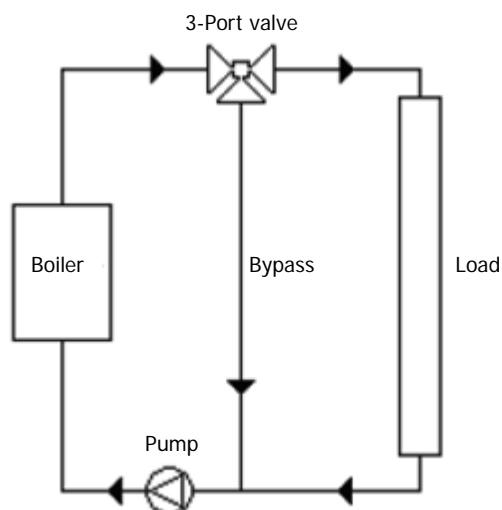
Stem down Valve close

Piping Examples (continued)

3-port diverting valve in a constant flow/variable temperature circuit :

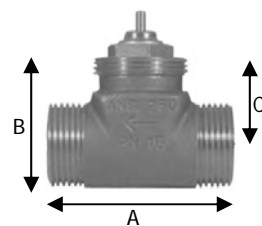


3-port diverting valve in a constant temperature /variable flow circuit

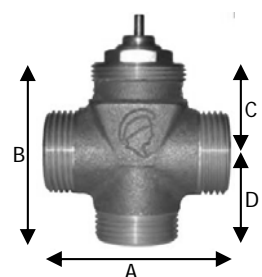


Dimensions

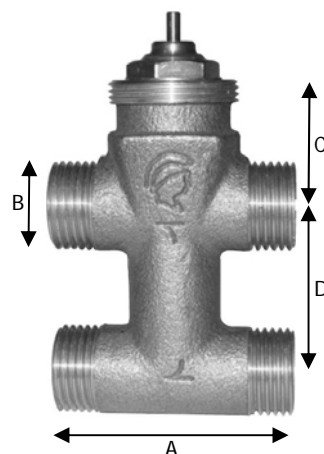
VT-2P:



VT-3P:



VT-4P:



	A	B	C	D	Weight
	(mm)	(mm)	(mm)	(mm)	(g)
VT-2P	56.9	40	27.69		220
VT-2P	56.9	56.9	27.69	29.21	240
VT-4P	56.9	15	29.3	40	650