EPV-143

WRAS Approved Brass Pressure Reducing Valve, BSPP Thread

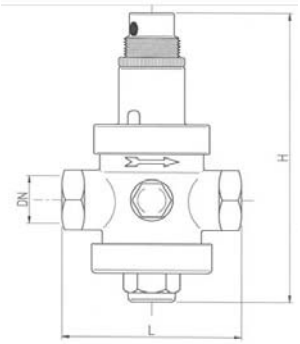
Features and Specification:

- Max inlet pressure of 25Bar
- Adjustable outlet pressure from 0.5bar to 6bar
- Brass diaphragm mechanism
- System of pressure compensation
- Max temperature rating of 80°C

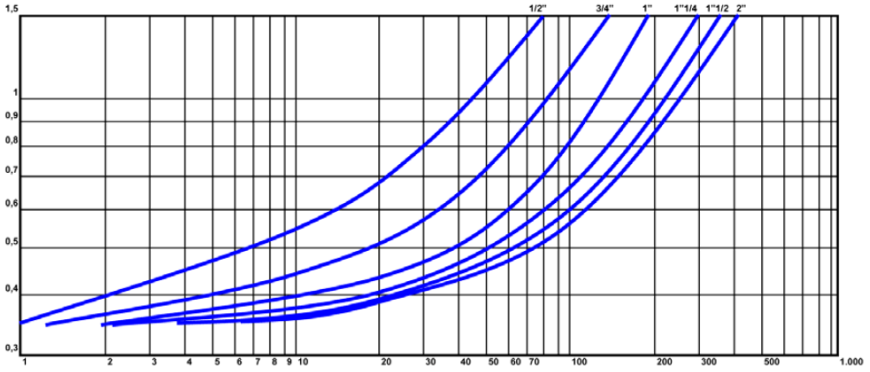
Additional Specification	
Max inlet pressure:	25Bar
Outlet pressure:	0.5bar to 6bar
Max temperature:	80°C
Thread connection:	ISO 228/1
Tested according to rules:	DIN EN 1567
Suitable fluids:	Water, Air
Reduction rate:	10:1

Dimensions (mm)		
Size (DN)	**H**	**L**
3/8”	120	75
1/2”	120	75
3/4”	150	85
1”	160	89
1 1/4”	220	125
1 1/2”	220	130
2”	220	138

Material Specification	
Part	**Material**
Body	CW617N
Seat	Stainless Steel
Bar	CW614N
O-rings	NBR 70sh—DIN EN 549
Flat Gaskets	MecSint—Alimentary Fibre
Plastic Parts	Ultramid® A3K (BASF)



Discharge and Head loss Chart



Please note: All information is sourced from manufacturer’s data and is intended for guidance only — Essco Process Valves can accept no liability for changes, omissions or errors.

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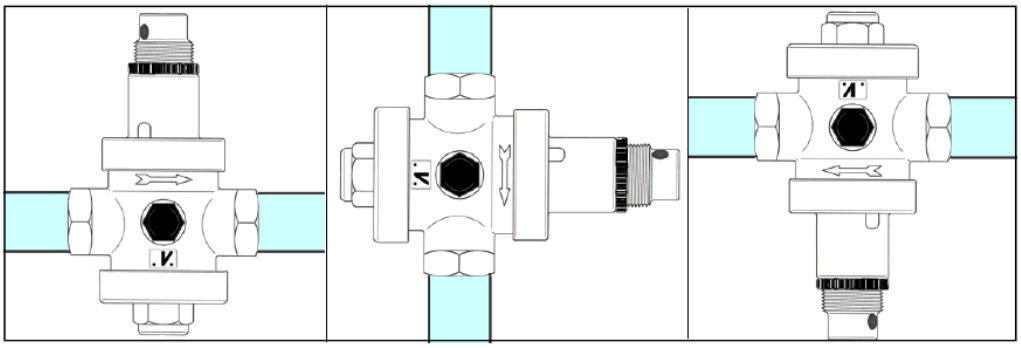
Installation and Operation— WRAS Approved Brass Pressure Reducing Valve

Installation:

The VAC-143 are not affected by gravity force; therefore they can be installed in the application in any orientation.



Pressure reducing valves can be damaged by dirty water; therefore we advise to install a self-cleaning filter upstream before the pressure reducer, in order to protect the valve and any other mechanism (thermostatic mixers, taps, etc.)

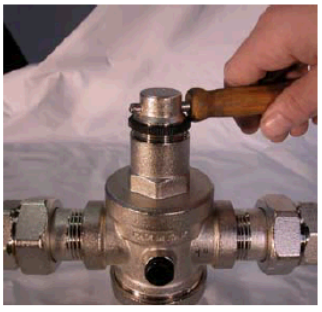
When there is a device which produce or store hot water or pipes are exposed to sudden changes in temperature, an increase of outlet pressure may occur; this event is due to the raise in pressure that follows the temperature rising: an expansion vessel between downstream the pressure reducing valve will avoid this problem.

We recommend moreover to install a stopcock valve to prevent water hammer which would damage the inner parts of the pressure reducer and other devices in the system.

Operation:

How to regulated the pressure:

All VAC-143 pressure reducers are tested before being packaged; during the proof they are pre-set at the outlet pressure of 3bar; the outlet pressure can be easily modified when the valve is installed on the plant. In order to modify the outlet pressure, you should only loosen the fixing ring and turn the spring holder as indicated in the pictures sequence below. By turning clockwise the pressure increases, while counter clockwise the pressure decreases. The right setting should be made while the system is isolated/closed off.



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