

# V400 series



Pressure Reducing Desuperheater Station

## V400 Series

Employing patented fluid flow conditioning technology and a unique nozzle arrangement, KCL Valve's new and improved desuperheater station products easily meet today's most challenging steam conditioning applications.

### Standard Specification

Straight way & Angle body Cage Guided style



Size	3" to 24" (DN80...DN600)
Rating	ANSI 150Lb 2500Lb JIS 10K to 63K PN10 to PN450
Leakage	FCI 70-2 Standard : ANSI Class IV Option : ANSI Class V
Cv Range	70 to 4,560
Press. Range	Up to 6,170 psi (g) Up to 434 Kg/cm <sup>2</sup> (g)
Temp. Range	Up to +1,050°F Up to +565°C
Material	Carbon Steel (WCB, WCC) Stainless Steel (CF8, CF8M, CF3, CF3M) Chrome-moly (WC6, WC9, C12A) other alloys
End Connection	RF/FF/RTJ Flanged, Butt weld
Actuators	Spring-diaphragm, Cylinder, Motorized, Electro-Hydraulic
Applications	Auxiliary Steam Turbinebypass (HP/LP)

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## Performance

- High Integrity design.
- Streamlined flow passages to optimise capacity.
- Excellent flow control rangeability.
- High levels of energy conversion capability

## Design Flexility

- Modular construction design available with a range of different end connections styles.
- Wide range of supplementary noise control options.
- All trim components removable from the top for ease of maintenance.
- Multiple trim sizes available.

## Advantages

- **Close control of pressure and temperature**  
Flexible plant systematization will save energy  
Good conditioned steam reduces cost in control system.
- **Piping arrangement simplified**  
Reduces components and eventually overall cost.  
Shortens pipeline enabling easy piping arrangement  
Eliminates auxiliary steam line saving energy.
- **Easy maintenance**  
Fewer components reduce maintenance cost.  
Almost wear-free valve seat/plug extend maintenance interval.
- **Environment improved**  
Noise generated may be attenuated to offer quiet environment  
Valve vibration is eliminated to assure safe operations.

