



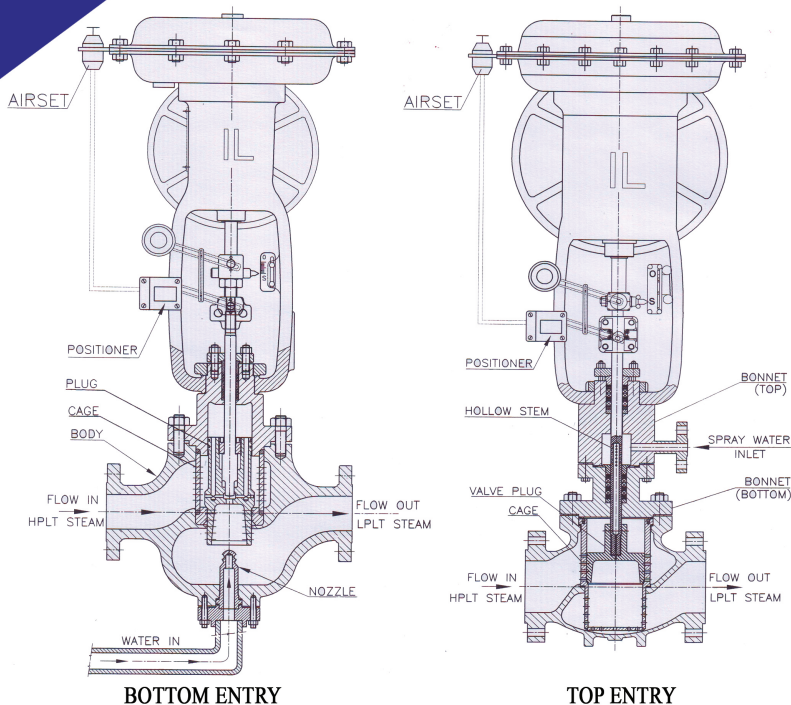
**INSTRUMENTATION LIMITED, PALAKKAD**



**ILP's  
AATMANIRBHAR  
BHARAT  
Initiative**

# STEAM CONDITIONING VALVE

Model: VDS



Capable to deliver exactly the requirements of pressure reduction and desuperheating applications through its combined special design in a single valve. This model reduces both temperature and pressure of superheated steam closer to saturated steam. Top and Bottom water spray connections can be provided, as per customer requirement. Spray water is atomized into fine droplets there by reducing the superheat through improved mixing efficiency. The process is also called as in-valve desuperheating.

## Features

- Made in India as **ILP's AATMANIRBHAR BHARAT Initiative**
- Pressure reduction & De-superheating inside the valve
- Fine atomization of spray water
- Optimum Spray water Penetration
- Effective Heat transfer and Evaporation.
- Quick change trim for easy maintenance.
- Sturdy construction & Compact in design.

## Applications

- HP Bye pass
- Turbine Bye Pass
- Combined De-superheating, etc.



## STEAM CONDITIONING VALVE

### Model: VDS

### Specifications

Type of Valve assembly	VDS
Pressure Rating	ASME Class 150 – 2500
Nominal Size	1.5” to 8” ( Higher sizes on request )
End connection	BW,SW,RF,FF & RJ
Service Temperature	600C (Max.)
Valve Body	ASTM A 216 WCB ASTM A 351 CF8/CF8M ASTM A 217 WC6,WC9 Other materials on request
Trim	SS 410 + Nitrided SS 431+ Nitrided , SS 316 + Stellite Other materials on request
Packing	Grafoil
Gaskets	Stainless steel + Graphite / PTFE
Cv	10 - 380
Temperature (Min. Controllable)	+/-7 ° above saturation temperature
Strainer for water line	0.1mm Mesh
Flow Characteristics	Mod. Linear, Mod. Equal%
Leakage Class	Class IV as per FCI 70.2
Bonnet	Plain , Finned
Actuator	Spring return type Diaphragm, spring return type piston cylinder , double acting piston cylinder type, Electrical actuators are available on request
Tubing & Accessories	SS Tubing 6mm / 8mm OD. Air connection: ¼” NPT / ½” NPT on request. Pneumatic and Electropneumatic positioner , I/P converter , Air lock Relay, Position transmitter, Limit switches, Volume booster etc.,
Recommended Minimum Straight Pipe lengths	Straight length at outlet : 4 m Temperature Sensor from water injection : 12 m Pressure Sensor from PRDS Valve 1.5 m

### Contact:

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