

**MASCOT**



**High End  
Technology**

**Tight  
Shutoff**



**Reliability**

**Expertise you  
can trust**

**General Products Brochure**



## GFLO

### High Performance Single Seated Globe Control Valve

Body type: ..... 2way, 3way, angle & jacketed  
Size: ..... 0.5" to 30.0"  
Pressure Class: .... Up to ANSI CL 4500  
Body Material: .... All castable alloys  
End Connections: . Flanged, screwed, butt and socket welded  
Bonnet: ..... Standard, extended, cryogenic & bellow sealed  
Guiding: ..... Heavy duty double top stem  
Gland Packing: .... PTFE, braided PTFE, grafoil, low fugitive emission  
Gaskets: ..... PTFE, spiral grafoil  
Seat Ring: ..... Clamped-in, self aligned  
Plug: ..... Solid one piece construction with large stem diameter  
Characteristics: .... Equal percentage, linear and on-off  
Rangeability: ..... 50:1  
Special Trims: .... CAVFLO, MEGAFLO, GFLO VC  
Actuator: ..... Linear spring cylinder, fully field reversible  
Air Pressure: ..... 2.0 to 10.0 Bar  
Shut off class: .... With metal seat - ANSI IV or V and replaceable soft seat - ANSI VI

## VFLO

### High Performance V-Ball Control Valve



Body type: ..... One-Piece VFLO Ball, straight-through  
Size: ..... 0.5" to 18.0"  
Pressure Class: .... Up to ANSI CL 900  
Body Material: .... All castable alloys  
End Connections: . Flangeless, flanged (integral and separable flange)  
Gland Packing: .... PTFE, braided PTFE, grafoil  
Seat Ring: ..... Clamped-in, self aligned, bi-directional  
Ball: ..... Segmented V-notch ball, reduces clogging, shearing action fibrous fluids  
Shaft: ..... Splined-No lost motion or dead band  
Characteristics: .... Equal percentage, linear and on-off  
Rangeability: ..... 300:1  
Actuator: ..... Rotary spring cylinder, fully field reversible  
Air Pressure: ..... 2.0 to 10.0 Bar  
Shut off class: .... With metal seat - ANSI IV and replaceable soft seat - ANSI VI

## DISKFLO

### High Performance Wafer style Butterfly Control Valve



Body type: ..... Wafer, light in weight, provides large flow and minimum pressure drop  
Size: ..... 2.0" to 42.0"  
Pressure Class: .... Up to ANSI CL 1500  
Body Material: .... All castable alloys  
End Connections: . Wafer, lugged, flanged  
Gland Packing: .... PTFE, Braided PTFE, Grafoil  
Seat Ring: ..... Clamped-in, self aligned  
Disc: ..... Double eccentric cammed  
Shaft: ..... Splined no lost motion or dead band  
Characteristics: .... Equal percentage, linear and on-off  
Actuator: ..... Rotary spring cylinder, fully field reversible  
Shut off class: .... With metal seat - ANSI IV and replaceable soft seat - ANSI VI

## SEVERE SERVICE

### Cavitation, Noise Abatement, Velocity Control Trim



Body type: ..... 2way, angle & jacketed  
Size: ..... 0.5" to 30.0"  
Pressure Class: .... Up to ANSI CL 4500  
Body Material: .... All castable alloys  
End Connections: . Flanged, screwed, butt and socket welded  
Bonnet: ..... Standard, extended, cryogenic & bellow sealed  
Guiding: ..... Heavy duty double top stem  
Gland Packing: .... PTFE, braided PTFE, grafoil, low fugitive emission  
Gaskets: ..... PTFE, spiral grafoil filled SS  
Seat Ring: ..... Clamped-in, self aligned  
Plug: ..... Solid one piece construction with large stem diameter  
Characteristics: .... Equal percentage, linear and on-off  
Actuator: ..... Linear spring cylinder, fully field reversible  
Air Pressure: ..... 2.0 to 10.0 Bar  
Shut off class: .... With metal seat - ANSI IV or V and replaceable soft seat - ANSI VI

### MASCOT Industrial

15A Randor Street Campbellfield, Victoria 3061 Australia

Tel: +61 3 9357 6555 | Fax: +61 3 9357 6566 | Email: sales@mascot-industrial.com | Web: www.mascot-industrial.com



## Variable Spray Desuperheater

The variable nozzle spray Desuperheater represents major advance in the design of Desuperheaters. It is small enough to mount through a 100mm flange in the steam main having a minimum of 6 meters of straight pipe work downstream of the nozzle.

The variable nozzle spray Desuperheater (VSD) provides more economical control of steam temperature by introducing cooling water into the steam flow and through a nozzle of advanced design. In this design water pressure above steam pressure is used to produce a thin film of conical spray of water which evaporates as soon as it is injected into the steam flow. The design of the Desuperheater eliminates the need for a separate water control valve.

The valve is accurately built into the Desuperheater. Because there is no external water control valve and there is always maximum water pressure at the nozzle.

The equal percentage characteristic plug controls the amount of atomized water being injected. As per signals of the temperature controller the valve plug varies the area of the nozzle and the water which is directed through a cage has 12 water inlet orifices, progressively uncovers as per the lift of the plug. Water flow is controlled at the point of injection into the steam.

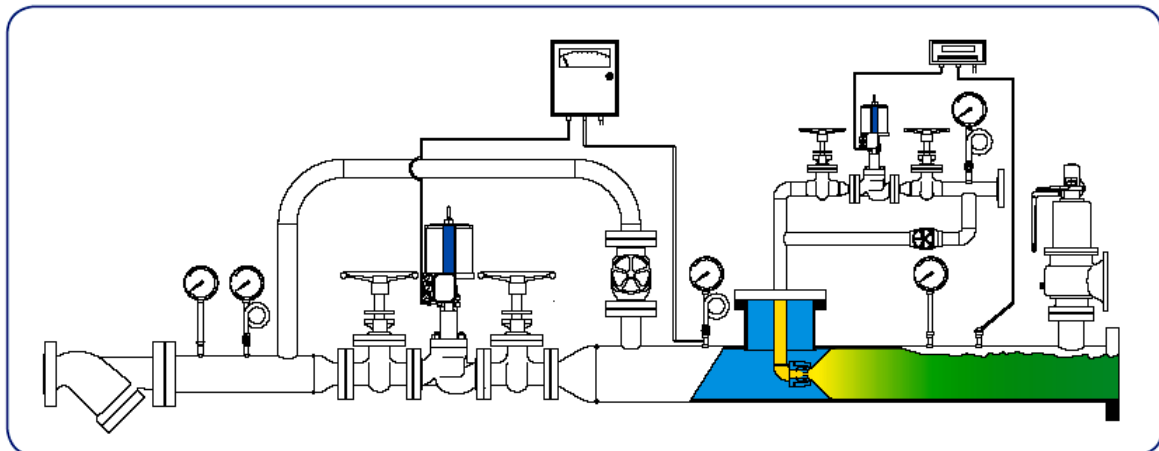
The VSD Desuperheater utilizes constant water pressure to create a fine conical spray of which is injected into the moving of steam. The Desuperheater water spray evaporates quickly, eliminating the impingement on the piping walls.

The actuator moves the Desuperheater control plug, which regulates the quantity of water not the pressure injected into the steam.

Due to its unique design the VSD Desuperheater offers considerable advantage to the users.



## Typical Pressure Reducing and Desuperheating unit (PRDS)



*Typical Pressure Reducing and Desuperheating unit (PRDS)*