

MASCOT



Tight Shutoff

MASCO

Reliability

Expertise you can trust

General Products Brochure

MASCOT

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Who are we?

MASCOT is a culmination of over one hundred years experience in the process control valve industry that brings you a dynamic new team that understands your requirements.

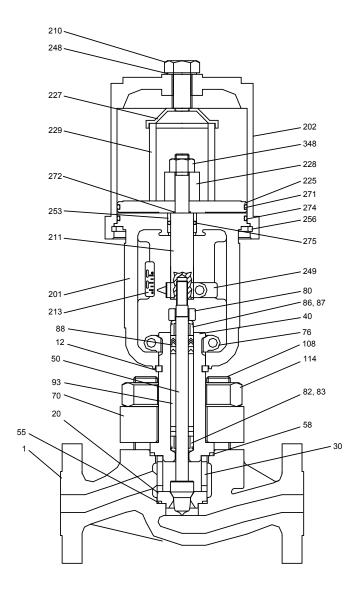
What we offer:

MASCOT, our experience and technology in Severe Service and General Service Valve Applications will bring you solutions to support all your process and control needs. Bringing you global technology and sensible prices. Our distribution and technical support will ensure your requirements are suited.

We specialise in:

- engineering knowledge you can
 trust
- extensive experience in severe service applications
- risk analysis
- fastest deliveries, quickest response
- training and education





| 1 | Body | 201 | Yoke |
|-----|----------------------|-----|------------------------|
| 12 | Yoke Half Ring | 202 | Cylinder |
| 20 | Seat Ring | 210 | Adjusting Screw |
| 30 | Seat Retainer | 211 | Actuator Stem |
| 40 | Bonnet (Standard) | 213 | Stroke Plate |
| 50 | Plug | 225 | Piston |
| 55 | Seat Ring Gasket | 227 | Spring Button |
| 58 | Bonnet Gasket | 228 | Actuator Stem Spacer |
| 70 | Bonnet Flange | 229 | Spring |
| 76 | Yoke Clamp | 248 | Adjusting Screw Gasket |
| 80 | Gland Flange | 249 | Stem Clamp |
| 82 | Guide Liner Lower | 253 | Yoke Bush |
| 83 | Guide Retainer Lower | 256 | Retaining Ring |
| 86 | Guide Liner Upper | 271 | Piston O-Ring |
| 87 | Guide Retainer Upper | 272 | Piston Stem O-Ring |
| 88 | Packing | 274 | Yoke O-Ring |
| 93 | Packing Spacer | 275 | Actuator Stem O-Ring |
| 108 | Stud | 348 | Actuator Stem Lock Nut |
| 114 | Nut | | |





General Service

We can supply:

- severe service control valves
- general service control valves
- rotary style control valves
- actuators and positioners
- desuperheaters
- choke valves

Globe Control Valves

| GFLO | .General Service globe control valve |
|----------------|--|
| GFLO VC | Severe Service globe control valve |
| GFLO CAVFLO | Anti cavitation globe control valve |
| GFLO MEGAFLO . | Noise attenuating globe control valve |
| GFLO Y-BODY | . High flow capacity globe control valve |

Rotary Control Valves

| VFLO C | haracterised V-Ball control valve |
|---------------|---|
| DISKFLOH | igh performance eccentric butterfly valve |
| EFLO E | ccentric plug valve |

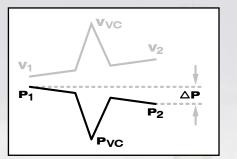
Positioners

| HIFLO | Pneumatic positioner (3-15 psi) |
|----------|---|
| HIFLO IP | Electro pneumatic positioner (4-20Ma) |
| YT2400 | Digital Positioner [Hart, Fieldbus, Profibus] |

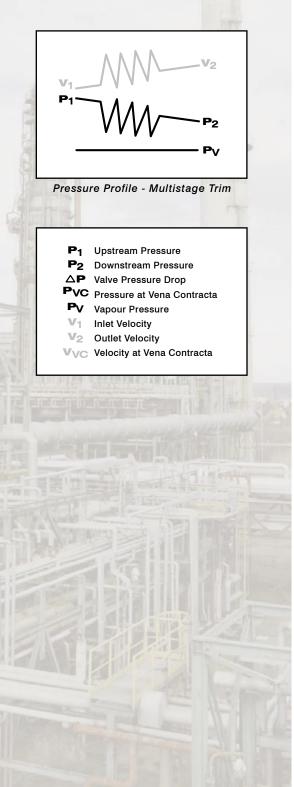
Other Valves

| DEFLO | MSD/VSD Desuperheaters |
|----------|--|
| FLUSHFLO | High Performance tank bottom drain valve |
| WEIRFLO | Diaphragm control valve |
| KNIFLO | High Performance knife gate valve |
| QUICKFLO | Actuated and Manual ball valves |





Pressure Profile - single seated valve



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Severe Service Valves

By utilising mechanisms that convert pressure directly into other forms of energy without passing through a region of low pressure and high velocity, it is possible to eliminate cavitation in liquids, and substantially reduce noise levels in high pressure drop gas applications.

Proper control valve selections will ensure that the required energy can be dissipated without exceeding the maximum vibration levels in the piping system and without exceeding the wear properties of the trim material. The selected control valve trim design shall facilitate maximum reduction of control valve induced vibration and trim wear.

Control valve vibration and trim erosion can be reduced by multistage mulitpath trim designs. In order to minimise vibration, the control valve trim design should be based on ISA Guideline Compliant Specification, edition 1998, Clause 5.3.2.





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.

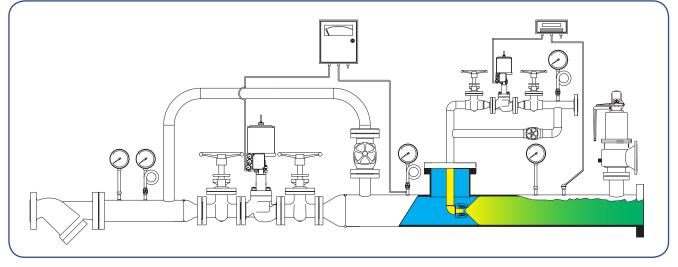
The valve is accurately built into the Desuperheater. Because there is no external water control valve and there is always maximum water pressure at the nozzle.

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)

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GFLO

High Performance Single Seated Globe Control Valve

| 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 VFL0 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: |
| 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: |
| 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: |
|---|
| Air Pressure:2.0 to 10.0 Bar |
| Shut off class:With metal seat - ANSI IV or V and replaceable soft seat - ANSI VI |

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