

MASCOT



Tight Shutoff

MASCO

# Reliability

Expertise you can trust

# **General Products Brochure**

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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.

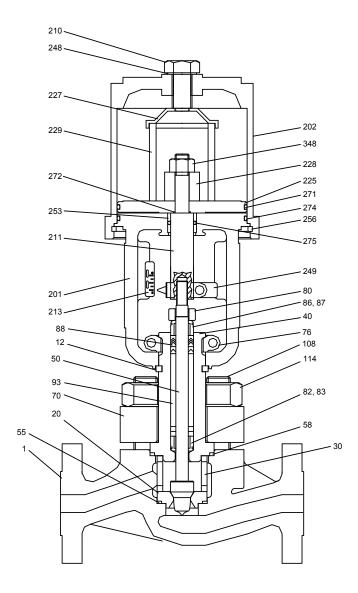
#### What we offer:

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**

<b>VFLO</b> C	haracterised V-Ball control valve
DISKFLOH	igh performance eccentric butterfly valve
<b>EFLO</b> E	ccentric plug valve

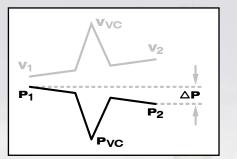
#### **Positioners**

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

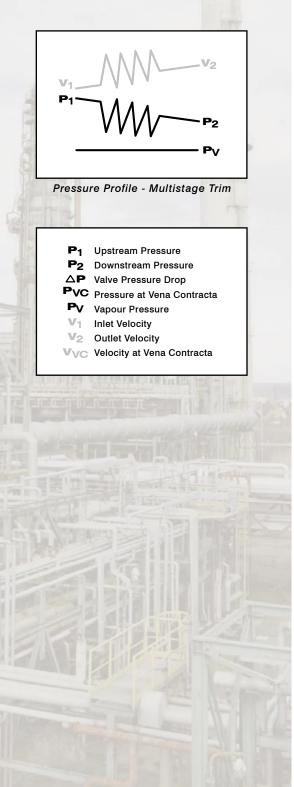
#### **Other Valves**

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.

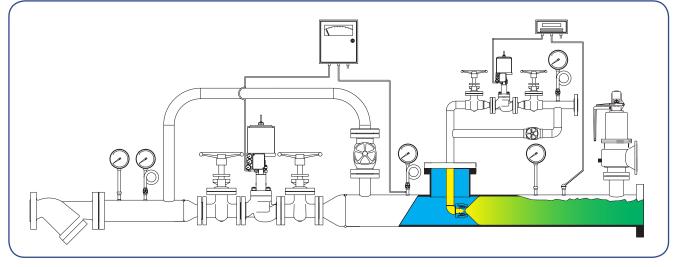
The valve is accurately built into the Desuperheater. Because there is no external water control valve and there is always maximum water pressure at the nozzle.

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)

Typical Pressure Reducing and Desuperheating unit (PRDS)



# 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
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# 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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