

## GLOBE CONTROL VALVE | GFLO | SINGLE SEATED

**Size:** 1/2" to 30" | **Pressure Rating:** Up to ANSI 4500 | **Connection:** Flange, Screwed, Butt & Socket Welded  
**Body Material:** All castable alloys | **Plug:** Solid one piece construction | **Seat Ring:** Clamped in, self-aligned  
**Characteristics:** Equal Percentage, Linear, On-Off | **Range-ability:** 50:1  
**Shut-Off Class:** Metal Seat – ANSI IV, Replaceable Soft Seat – ANSI VI



The MASCOT GFLO globe control valve offers superior performance in liquid and gaseous services, while permitting easy, fast and inexpensive maintenance for both general and severe service application

<b>GFLO</b>	General Service Globe Control Valve
<b>GFLO VC</b>	Severe Service Globe Control Valve
<b>GFLO CAVFLO</b>	Anti Cavitation Globe Control Valve
<b>GFLO MEGAFLO</b>	Noise Attenuating Globe Control Valve

### Applications:

Boiler Feedwater Recirculation, Spray Water Attenuator, Soot Blower Steam Pressure, Deaerator Level & Pressure Control, Main Feedwater Control, Turbine Bypass, Pressure Reducing, High Pressure Drop, High Temperature, Condenser Level, Spill Over and Recirculation.

### 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.



**CAVFLO Trim** is used in liquid application to protect control valves from cavitation damage



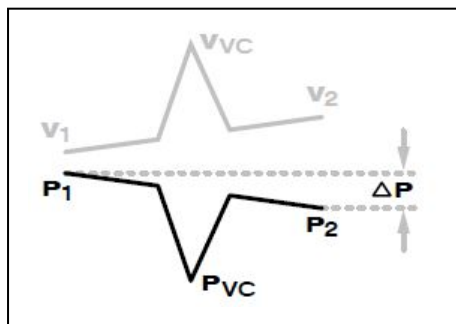
**MEGAFLO Trim** is used to reduce control valve noise to acceptable level in high pressure drop gas application



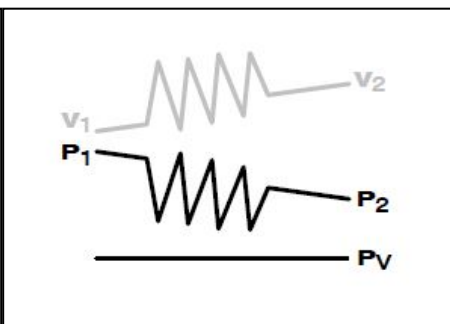
**VC Velocity Control Trim** is used for liquid application where pressure drop is high which will cause severe damage to the control valve



**TAPERFLO Trim** is used for small Cv liquid application where pressure drop is high enough to cause cavitation



Pressure Profile – Single Seated Valve



Pressure Profile – Multi-stage Trim

<b>P<sub>1</sub></b>	Upstream Pressure
<b>P<sub>2</sub></b>	Downstream Pressure
<b>ΔP</b>	Valve Pressure Drop
<b>P<sub>VC</sub></b>	Pressure at Vena Contracta
<b>P<sub>V</sub></b>	Vapour Pressure
<b>V<sub>1</sub></b>	Inlet Velocity
<b>V<sub>2</sub></b>	Outlet Velocity
<b>V<sub>VC</sub></b>	Velocity at Vena Contracta