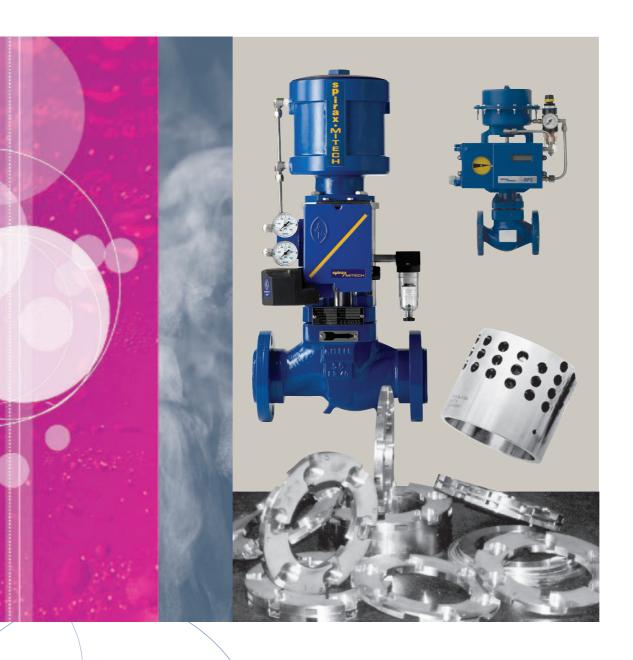
Globe Control Valves





GLOBE CONTROL VALVES

The modular, flexible option

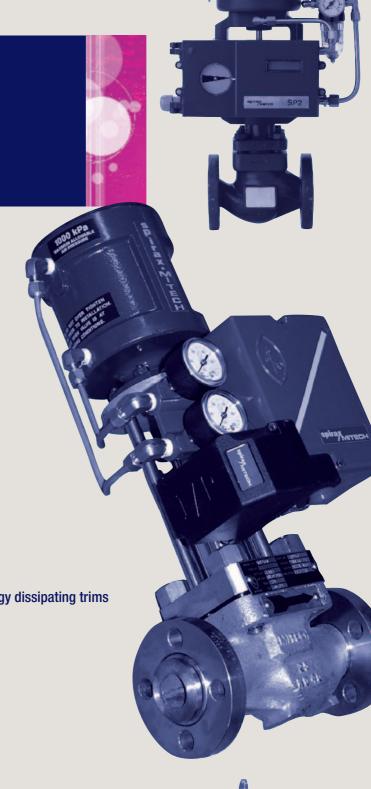
ABOUT GLOBE CONTROL VALVES

The SPIRA-TROL and M-Series Globe Control valves are general purpose control valves that can be engineered to solve both complex and basic requirements. Their robust construction makes them long-lasting and easy to maintain, while their modular design makes them easy to specify, reducing spares inventory requirements.

- From standard to severe service
- ½" to 16" NB
- PN16 to ANSI 2500
- Tight shut-off, low noise, cavitation control, energy dissipating trims

INDUSTRIES AND APPLICATIONS

- Oil and gas
- Chemical
- Food
- Breweries
- Pulp and paper
- Power generation





THE RANGE AT A GLANCE

Valve name	Valve type	Body materials	Valve sizes	Connections	Flow characteristics	Special trims	Stem seals	Actuation
SPIRA-TROL THE SPIRA-TROL	2-port globe to ANSI or EN	SG iron Carbon steel Stainless steel Cast iron NACE	DN15 to DN100 1/2" to 4" Larger sizes to order	Flanged: ANSI 125 ANSI 150 ANSI 300 PN16 PN25 PN40 JIS 10 JIS 20 KS 10 KS 20 Screwed: BSP NPT Socket weld	Equal percentage Linear Fast opening Reduced flow including microflute	Low noise Soft seal Hard facing	Spring loaded chevron and 'O' ring Graphite Bellows Bonnet extension	Pneumatic diaphragm spring return Electric Modulating On / off
M-Series	2-port globe 3-way globe 2-port angle Sweep angle	Carbon steel Stainless steel Bronze Chrome moly Special alloys	DN15 to DN400 ½" to 16"	ASME 600 Separable up to 100 NB Integral in all sizes Butt weld	Equal percentage Linear Fast opening	Low noise Anti-cavitation Soft seat Pressure balance	PTFE Graphite Bellows Live loading Cryogenic Heat extended	Pneumatic piston spring return or double acting Electric Modulating On / off
Severe Service	2-port globe 3-way globe Sweep angle	Carbon steel Stainless steel Chrome moly Special alloys	DN15 to DN400 ½" to 16" On request up to 24"	ASME 600-4500 Separable up to 100 NB Integral in all sizes Butt weld	Linear Bi-linear Tri-linear	ED trims 200:1 turndown Pressure balance	Graphite Bellows Custom made when required	Pneumatic piston spring return or double acting Electric Modulating On / off

SEVERE SERVICE SPECIAL TRIMS



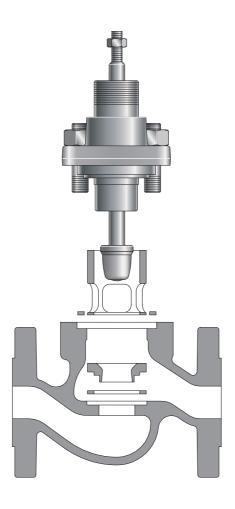
Spirax-Mitech can supply severe service trims to eliminate noise, vibration and cavitation. Applications include oil/gas, refining, power and major process industries.

Energy dissipating disk stack.

CLAMP IN PLACE, FREE FLOAT DESIGN

The entire Spirax-Mitech range of control valves utilises the clamp in place, free float design. All trim components are designed to clamp in place so the valve can be quickly configured to the users specific process needs. The free float of the seat and plug during assembly means that stem, plug and seat alignment is easily achieved. When compared to alternative designs, the free float designs provides the user with longer stem seal life and better valve shut-off performance.

The simplicity of build also means that maintenance is quick and easy, with no special tools required to achieve the design performance of the valve.



APPLICATIONS



Angle body choke valve

4" class 2500 angle valve Crude oil from P1=210 bar to P2=46 bar Tungsten carbide trim



Soot blower valve

2" class 2500 globe valve Steam at 540°C from 190 bar to 30 bar



Recycle and pressure control valve

8" class 300 globe valve Oxygen at 112°C from 36 bar to 1 bar



Steam pressure reducing valve

6" x 10" class 2500 x 600 angle valve Steam from P1=98 bar to P2=22 bar Flow = 46700 kg/h



Turbine isolation

Turbine isolation and warm-up station Steam at 430°C from 46 bar to 1 bar



Energy dissipating disk stack

SUMMARY OF KEY FEATURES AND BENEFITS

Model	Key features	Key benefits			
SPIRA-TROL	Precise control	Guaranteed control performance across a wide range of applications			
	Universal application	Standardised control valve for your plant, which minimises maintenance training and spares inventory			
	High performance long life stem seal	Low emissions from the valve stem, which means a better environment and no loss of valuable product or energy			
Tate SP2		Infrequent seal replacement, consequently maintenance personnel are free for other work			
	Long life valve internals	Fit and forget			
	Low number of components	Highly flexible supply Minimises spares inventory			
	Quick and easy maintenance	Limited plant downtime			
	Low cost of ownership	Larger profits for you			
M-Series	General purpose valve	Solves basic and complex requirements			
	Robust construction	Long lasting			
	Modular design	Reduces spares			
	Suitable for high pressure and extreme temperature conditions	Versatile and eliminates noise or cavitation problems			
	Can be adapted for corrosive fluids	Versatile			
	Various sizes	Versatile			
11.20	Pneumatic, electro-pneumatic or smart positioners	Versatile			
Severe Service	Local CFD design	Can be engineered to suit a specific application			
	Linear / bi-linear / tri-linear	Suitable for large turndowns (200:1)			
3 V	Wide range of materials	Can be engineered to suit a specific application			
3 8	ZZ or disk stack	Potential cost reduction on smaller sizes			
	Compact design	Suitable for retrofitting			





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