

# **Electro-Pneumatic Control Valve for Steam cv-cos**

An Innovative Control Valve for Improving Steam Quality



3-in-1 Control Valve

Control Valve

Steam Trap

Separator

Actuator



#### Compact and Easy to Use

steam trap to improve steam quality.

TLV's CV-COS is a new type of compact electro-pneumatic control valve with an integrated cyclone separator and

> Actuator with built-in I/P positioner saves space and simplifies system layout, piping, and maintenance. Zero/span adjustment can be performed by simple dial rotation.

## Cyclone Separator

## Supplies Dry Steam and Prevents Scale Adhesion / Valve Erosion

Built-in cyclone separator eliminates condensate, achieving separation efficiency as high as 98%. Built-in screen with large surface area prevents scale adhesion, ensuring trouble-free operation.



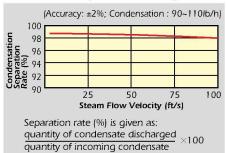
#### Steam Trap



#### Prevents Water Hammer by Eliminating Condensate

Self-modulating free float steam trap continuously discharges condensate as it is separated.

#### Flow Velocity and Efficiency



**Electro-Pneumatic Control Valve** 

For Steam CV-COS

Usable with pressure/temperature sensors, flowmeters, and controllers,









# **Specifications**

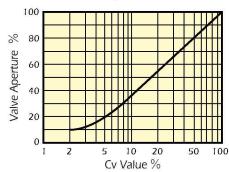
Size (in)	Connection (Flange)	Body Material	Max. Operating Pressure PMO	Max. Operating Temp. TMO	Valve Characteristic	Rangeability	Fail-Safe Position
<sup>1</sup> / <sub>2</sub> , <sup>3</sup> / <sub>4</sub> , 1 1 <sup>1</sup> / <sub>2</sub> , 2	ASME	Cast Stainless Steel	230 psig (½″- 1½″) 150 psig ( 2″)	428 °F	Equal Percentage	50:1	Valve CLOSED
		Cast Iron*					

Note: Air for actuator must be oil-free, filtered to 5 µm



To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside the specification range. Local regulations may restrict this product below the conditions quoted.

## Equal Percentage



#### Cv Values

Size (in)	1/2	3/4	1	11/2	2
Cv	3.5	6.0	9.0	27	40
Seat Diameter (in)	12/32	15/16		11/2	1 7/8



DO NOT DISASSEMBLE OR REMOVE THIS PRODUCT WHILE IT IS UNDER PRESSURE. Allow internal pressure of this product to equal atmospheric pressure and its surface to cool to room temperature before disassembling or removing. Failure to do so could cause burns or other injury. READ INSTRUCTION MANUAL CAREFULLY.

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For Technical Service 1-800 "TLV TRAP"



Manufacturer



is approved by LROA Ltd, to ISO 9001/1400



