



Electro-Pneumatic Control Valve for Steam **CV-COS**

**An Innovative Control Valve for
Improving Steam Quality**

Control
Valve



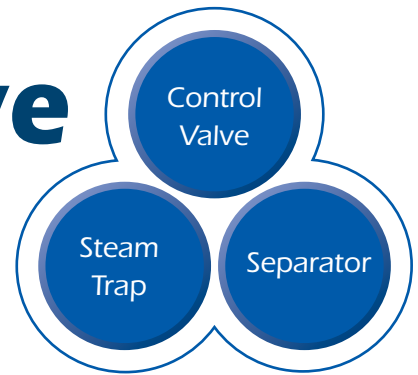
Steam
Trap

Separator



3-in-1 Control Valve

TLV's CV-COS is a new type of compact electro-pneumatic control valve with an integrated cyclone separator and steam trap to improve steam quality.



Actuator



Compact and Easy to Use

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.

Steam Trap



Prevents Water Hammer by Eliminating Condensate

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

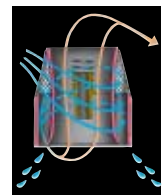
Usable with pressure/temperature sensors, flowmeters, and controllers.



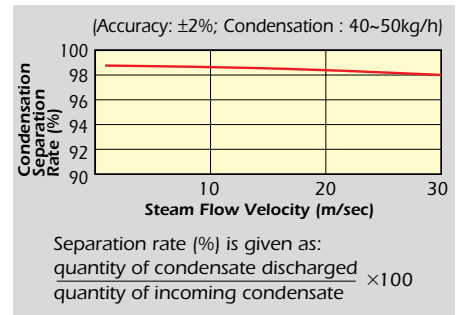
Cyclone Separator

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.



● Flow Velocity and Efficiency



Specifications

DN	Connection (Flange)	Body Material	Max. Operating Pressure PMO	Max. Operating Temp. TMO	Valve Characteristics	Rangeability	Fail-Safe Position
15,20,25,40,50	ASME	Cast Iron	13 barg (DN 15 - 40) 10 barg (DN 50)	200°C	Equal Percentage	50 : 1	Valve CLOSED
	DIN	Ductile Cast Iron	16 barg (DN 15 - 40) 10 barg (DN 50)	220°C			
		Stainless Steel					

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



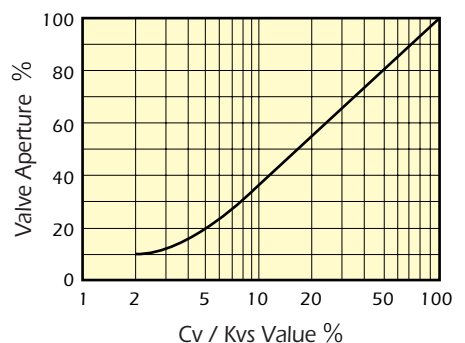
To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside the specification range. Local regulations may restrict this product below the conditions quoted.

Cv & Kvs Values

DN	15	20	25	40	50
Kvs (DIN)	3.0	5.1	7.7	23	34
CV (UK)	2.9	5.0	7.5	23	33
CV (US)	3.5	6.0	9.0	27	40
Seat Diameter (mm)	12	24		38	48

Electro-Pneumatic Control Valve For Steam CV-COS

● Equal Percentage



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Manufacturer

ISO 9001/ISO 14001

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is approved by LRQA Ltd. to ISO 9001/14001