TLV® Electro-Pneumatic Control Valve for Steam cv-cos

Keystal (11) Kitylstol

An Innovative Control Valve for Improving Steam Quality

Control

Valve

Steam Trap

Separator

NOTE: Pressure gauge is optional

CV-COS 3-in-1 Control Valve (

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 / Positioner



Compact and Simple Actuator with digital I/P positioner saves space and simplifies system layout, piping, and maintenance. Zero/span adjustment can be performed by auto-tuning via the positioner menu.

Steam Trap



CV-COSR

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.



Control

Valve

Like the CV-COS, the CV-COSR* is an electro-pneumatic control valve with a great price to performance value, ideal for applications where dry steam is already being supplied through use of a separator, etc.

* Does not include separator or steam trap functions.

Specifications	Model	DN	Connection (Flange)	Material	Max. Operating Press. PMO	Max. Operating Temp. TMO	Valve Character- istic	Range- ability	Fail-Safe Position		
	CV-COS CV-COSR	15,20,25, 40,50	ASME	Cast Iron	13 barg (DN 15 - 40) 10 barg (DN 50)	200°C	Equal	50 : 1	Valve CLOSED		
			DIN	Ductile Cast Iron Stainless Steel	16 barg (DN 15 - 40) 10 barg (DN 50)	220°C	Percentage				
Not	Note: Use only oil free air filtered to 5 µm for motive air supply.										

Pressure gauge shown in product images is optional.

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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



Separation rate (%) is given as: quantity of condensate discharged ×100 quantity of incoming condensate

Equal Percentage



Cv & Kvs Values

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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

