TLX® PNEUMATIC CONTROL VALVE FOR STEAM



5 Functions in 1

Superior Stability

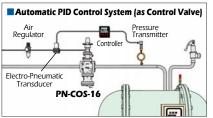
Employing the self adjusting pressure reducing valve COSPECT enables PN-COS to respond instantaneously to any fluctuations in primary pressure and flow rate by automatically absorbing them. So it is capable of maintaining a constant supply of steam at a stable secondary pressure.

Combine with E/P Transducer & Controller for a Control Valve

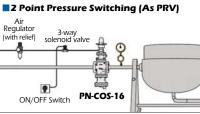
Combining with a controller and an electropneumatic transducer enables automatic PID operation. While primarily for pressure control, temperature control, etc. is possible depending on conditions. Because control operation is pneumatic, and the electro-pneumatic transducer can be installed in a separate location, **PN-COS** can be used in high temperature / humidity environments or hazardous areas.

Manual Remote Operation, 2 Point Press. Switching as a **Pressure Reducing Valve**

With the structure of a pilot operated pressure reducing valve, **PN-COS** can be combined with an air regulator* to set secondary pressure remotely. Also, two point pressure setting is possible using motive air and the internal Adjustment Screw. Steam supply will be maintained even with motive air cut off. * with relief



(For explanation purposes only, not intended as installation designs.)



Pressure Control Reducing Valve Valve Steam Strainer Separator Trap

3 Features Improving Steam Quality

Strainer

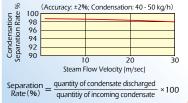
Motive Air

A 100 mesh screen captures large rust and scale particles. Trouble-causing foreign matter is not allowed to penetrate into the interior of the control valve or the steam using equipment.

Cyclone Separator

An SCE* Separator with 98% separation efficiency removes entrained condensate and small particles of scale, to deliver dry steam. * Super Cyclonical Effects





Steam Trap

A built-in free float steam trap continuously discharges the separated condensate and small particles of scale.



cations	Model	Connection	Size	Body (major parts) Material	Max. Operating Pressure	Max. Operating Temp.	Primary Pressure Range	Adjustable Pressure Range	Differential Pressure	Minimum Adjustable Flow Rate	Required Motive Air Pressure *
Specific	PN-COS-16	Flanged	15,20,25, 40,50	Cast Iron (Stain. Steel)	1.6 MPaG	220 °C	0.2 to 1.6 MPaG	Within 10 to 84% of primary pressure but with a minimum pressure of 0.03 MPaG Max. pressure : [Motive air pressure - 0.1] MPaG	0.07 to 0.85 MPa	5% of rated flow rate	[Desired secondary pressure + 0.1] MPaG to 1.6 MPaG
Full product details (capacities, etc.) are included in the specification data sheet (SDS). *Use only oil free air filtered to 5 µm for motive air su											for motive air supply.

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

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ISO 9001/ISO 14001

is approved by LRQA Ltd. to ISO 9001/1400

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