



Smart Valve Positioner TS900 Series

- Quick and easy auto calibration
- Flapper / Nozzle type Torque motor
- By-pass valve (A/M switch) installed
- PST & Alarm & Diagnostic function
- Advanced diagnostics



Smart Valve Positioner TS900/TS905 Series (Flame proof type)

Description

TS900 Smart Valve Positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS, or calibrator.

Certified























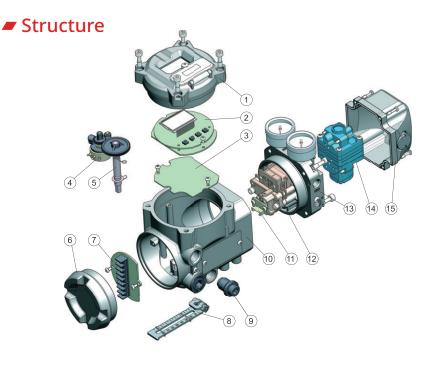
Features





TS905

- + Quick and easy auto calibration
- + Large flow pilot valve (Over than 100LPM)
- + Flapper / Nozzle type Torque motor
- + By-pass valve (A/M switch) installed
- → HART communication (HART 7)
- + Partial stroke test (PST) function
- Alarm function (Option)
- → Advanced diagnostics (Option)



- 1. Body cover
- 2. Main PCB
- 3. PCB guide
- 4. Potentiometer
- 5. Main shaft
- 6. Junction box cover
- 7. Terminal PCB
- 8. Feedback lever
- 9. Plug drain
- 10. Base body
- 11. Pressure sensor(Option)
- 12. Torque motor
- 13. Air connection block
- 14. Pilot valve
- 15. Pilot valve cover

Smart Valve Positioner TS900/TS905 Series (Flame proof type)

Specifications

Model		TS900	TS905						
Input signal		4~20mA DC							
Impedance		500Ω at 20mA DC							
Supply pressure		0.14~0.7MPa							
Stroke		10~150mm(Linear), 0~90°(Rotary)							
Air connection		NPT1/4, G1/4							
Gauge connection		NPT1/8							
Conduit		NPT1/2, M20							
Explosion	ATEX, IECEx	Ex db IIC T5/T6 Gb							
proof type	CCC, EAC,KCS	Ex tb IIIC T85°C/T100 °C Db							
proor type	CSA/US	See certificate							
Enclosure	EN60529	IP6	66						
	NEMA	Type 4	Type 4X						
Surge protection		Max.16KV							
1 mbiont	Standard type	-30°C~80°C							
Ambient	Low temp type	-40°C~80°C							
Temp.	Explosion proof	-40°C~80°C(T5) / -40°C~70°C(T6							
	LCD operating	-30°C~85°C							
Linearity		±0.5% F.S.							
Sensitivity		±0.2% F.S.							
Hysteresis		±0.5% F.S.							
Repeatability		±0.3% F.S.							
Air consumption		Below 2.3LPM (Sup=0.14MPa)							
Required air quality		Class 3 (ISO 8573-1)							
Flow capacity		Over 100LPM (Sup=0.14MPa)							
Material		Aluminum die cast	Stainless Steel 316						
Weight		3.5kg	7.0kg						
HART version*		HART 7							
Position transmitter*	Connection type	2 Wire							
	Supply voltage	9~30V DC							
Alarm switch*		9~30V DC							

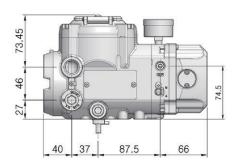
^{*} Options

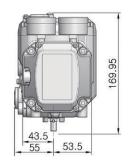
Product code

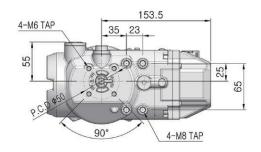
Model		TS9									
Option	Standard Non-Con Sensor(N	tact	0 6								
Body material	Aluminun Stainless			0 5							
Acting type	Linear typ Rotary typ				L R						
Explosion proof type	ATEX & IE KCS,CCC, CSA/US					A C S					
Connection type	Conduit NPT1/2 M20 M20	entry	NPT	Γ1/4 Γ1/4	nec	tion	3 4 5				
Lever (Linear type)	10 ~ 70mm 1 70 ~ 150mm 2 For tubeless actuator (30mm) 3 For tubeless actuator (70mm) 4										
Lever (Rotary type)	M6 x 39L NAMUR		`					1 5			
Ambient Temp.	-30°C~80°C (For CSA -20°C~80°C) S -40°C~80°C L -60°C~80°C (For EAC) U							L			
Communication	None Position transmitter(4~20mA) HART communication HART with Position transmitter(4~20mA) HART with Advanced diagnostics HART with Advanced diagnostics and Position transmitter(4~20mA)								0 1 2 3 4 5		
Options	None With Alarm switch Natural gas type* Natural gas type with Alarm switch*								, ,		

^{*} Natural gas type is only available with CSA and EAC.

Dimension [Unit:mm]









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