



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

## J Flow Controls **TS900 Series** Smart Valve Positioner

### ***FEATURES & BENEFITS***

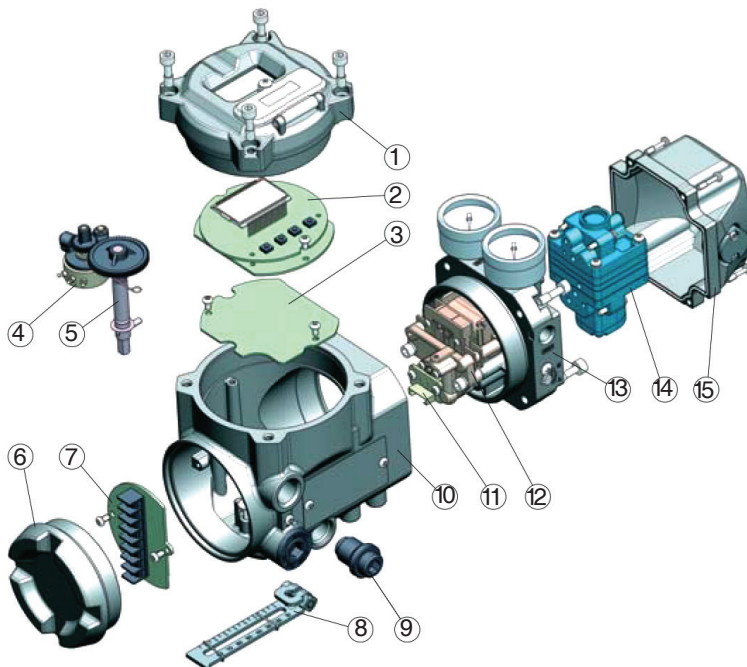
- Quick and easy auto calibration
- Large flow pilot valve (over 100LPM)
- HART communication (HART 7)
- Partial stroke test (PST) function
- Alarm & self diagnostic function
- By-pass valve (A/M switch) installed
- Limit switch (mechanical or proximity type)

# TS900 Series Smart Valve Positioner

## MODEL



## STRUCTURE



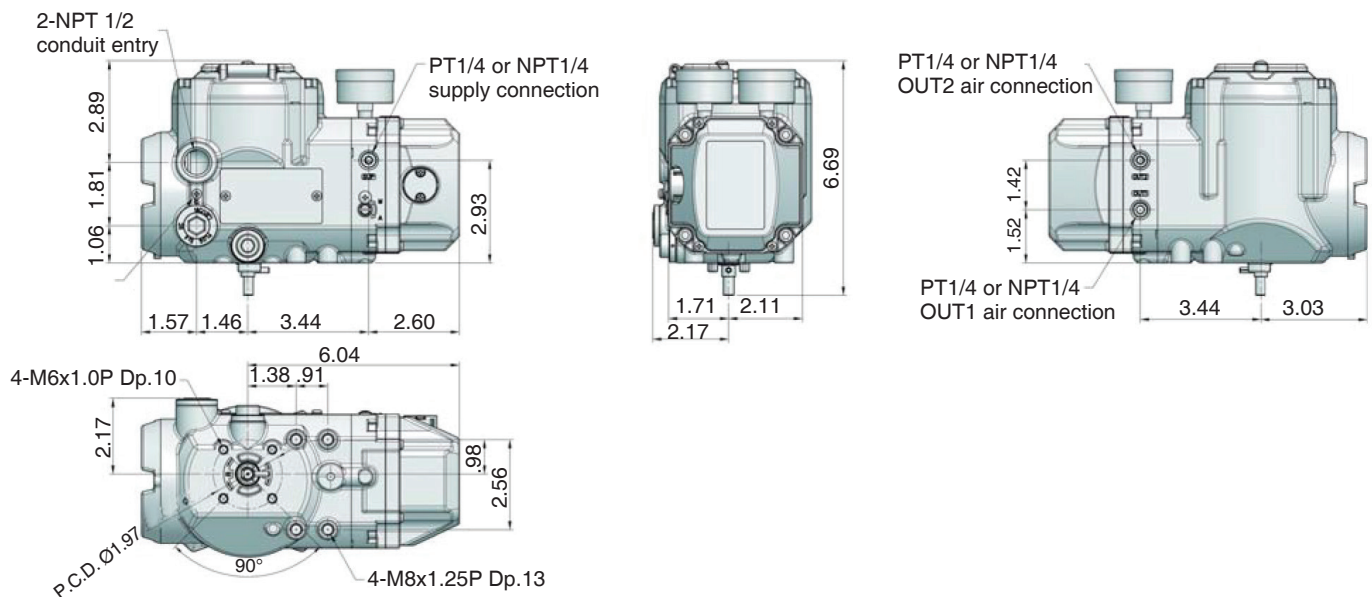
1. Body cover
2. Main PCB
3. PCB bracket
4. Potentiometer
5. Main shaft
6. Junction box cover
7. Terminal block
8. Feedback lever
9. Body vent cover
10. Base body
11. Pressure sensor (option)
12. Torque motor
13. Air connection block
14. Pilot valve
15. Pilot valve cover

## SPECIFICATIONS

		TS900L	TS900R
Input Signal		4-20mA DC	
Impedance		500Ω at 20mA DC	
Supply Pressure		0.14~0.7MPa	
Stroke		10~150MM	0~90°
Air Connection		PT 1/4, NPT 1/4	
Gauge Connection		PT 1/8, NPT 1/8	
Conduit		G(PF) 1/2, NPT 1/2	
Explosion-proof type		EX db IIC T5/T6 II 2D Ex tb IIIC T185°F T212°F	
Enclosure		IP66	
Ambient Temp.	Standard type	-22°F ~ 176°F	
	Low temp type	-40°F ~ 176°F	
	Explosion proof	-40°F ~ 176°F (T5) / -40°F ~ 158°F (T6)	
	LCD operating	-22°F ~ 185°F	
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	
Weight		7.7 lbs	
Hart Version*		HART 7	
Position transmitter*	Connection type	2 Wire	
	Supply voltage	9 ~ 30V DC	
Alarm switch*		9 ~ 30V DC	

\* Options

## DIMENSIONS



## TS900 Series Smart Valve Positioner

### HOW TO ORDER

Model		Acting Type		Explosion Proof		Connection		Lever (Linear)		Lever (Rotary)			
TS900	Standard	L	Linear	C	Ex db IIC T5/T6	Conduit Entry		Air Connection		1	0.4" ~ 3.15"	1	M6 x 34L
		R	Rotary			1	G1/2	PT1/4	2	2.8" ~ 5.9"	5	NAMUR	
						2	G1/2	NPT1/4	3	Adapter type (2.76")			
						3	NPT1/2	NPT1/4					
						4	M20	NPT1/4					

Ambient Temp		Communication		Alarm Switch	
S	-22°F ~ 185°F	0	None	0	None
L	-40°F ~ 185°F	1	4~20mA Position transmitter	A	Included Alarm module
		2	HART		
		3	HART with 4~20mA Position transmitter		



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