



Smart Valve Positioner TS800 Series

- Quick and easy auto calibration
- Large flow pilot valve (Over than 100LPM)
- HART communication (HART 7)
- Partial stroke test (PST) function
- Alarm & Self diagnostic function

Smart Valve Positioner TS800 Series

Discription

TS800 Smart Valve Positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS, or calibrator.



TS800 Standard type



TS800 with Limit switch type

Features

- + Quick and easy auto calibration
- + Large flow pilot valve (Over than 100LPM)
- + By-pass valve (A/M switch) installed
- + HART communication (HART 7)
- + Limit switch (Mechanical or Proximity type)
- + Partial stroke test (PST) function
- + Alarm function
- + Self dignostic

TS820 (Remote type)



TS820 Body

TS820 Sensor

Interface structure



- | | |
|-----------------------------|--|
| 1. LCD | 6. Position transmitter (Option)
- 2Wire
- 4~20mA DC feedback signal |
| 2. Button (4) | |
| 3. Alarm modules | 7. Limit switch (Option)
- Mechanical type
- Proximity type |
| 4. Input signal (4~20mA DC) | |
| 5. Ground | |

Smart Valve Positioner

TS800 Series

Specifications

Model	TS800L	TS800R
Input signal	4~20mA DC	
Impedance	500Ω at 20mA DC	
Supply pressure	0.14~0.7MPa	
Stroke	10~150mm	0~90°
Air connection	PT1/4, NPT1/4	
Gauge connection	PT1/8, NPT1/8	
Conduit	G(PF)1/2, NPT1/2	
Explosion proof type	Ex ia IIC T5/T6	
Enclosure	IP66	
Ambient Temp.	Standard type	-30°C~85°C
	Low temp type	-40°C~85°C
	Explosion proof	-40°C~60°C(T5) / -40°C~40°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	
Weight	2.2kg	
HART version*	HART 7	
Position transmitter*	Connection type	2 Wire
	Supply voltage	10~30V DC
Limit switch rating*	Mechanical type	AC 125V, 3A DC30V, 2A
	Proximity type	DC8.2V 8.2A

* Options

Product number

Model	TS800								
Standard type	TS800								
Remote type	TS820								
Acting type	Linear type	L							
	Rotary type	R							
Explosion proof type	Non-explosion proof	N							
	Ex ia IIC T5/T6	A							
Connection	Conduit entry	Air connection							
	G1/2	PT1/4	1						
	G1/2	NPT1/4	2						
	NPT1/2	NPT1/4	3						
	M20	NPT1/4	4						
Lever (Linear type)	10 ~ 80mm								1
	70 ~ 150mm								2
	Adapter type(70mm)								3
Lever (Rotary type)	M6 x 34L								1
	NAMUR								5
Ambient Temp.	-30°C~85°C								S
	-40°C~85°C								L
Communication	None								0
	4~20mA Position transmitter								1
	HART								2
	HART with 4~20mA Position transmitter								3
Limit switch (For TS800)	None								0
	Mechanical type								M
	Proximity type								P
Cable length (For TS820)	5m								1
	10m								2
	User define (Less than 20 meters)								x

Dimension [Unit:mm]

