

Description

TS700 Smart Valve Positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS, or calibrator.

Certified

In progress

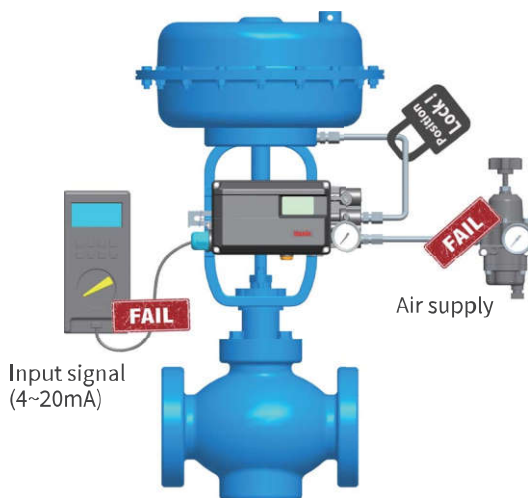
Features



- + Fail freeze function
- + Zero air consumption when standby signal
- + Prevents circuit board corrosion by external air exhaust design
- + Quick and easy auto calibration
- + Built in air filter(5 micron)
- + HART communication (HART 7)
- + Limit switch (Mechanical or Proximity type)
- + Partial stroke test (PST) function
- + Self diagnostic

Fail freeze function diagram

When the 4~20mA input signal or air supply signal is fail, cut off the air pressure to the actuator to hold the current valve position



Built in air filter

Protect the internal Piezo valve by the secondary air filter and the filter can be easily replaced by the user



Specifications

Model	TS700	TS705
Input signal	4~20mA DC	
Impedance	500Ω at 20mA DC	
Supply pressure	0.14~0.8MPa	
Stroke	10~150mm (Linear), 0~90° (Rotary)	
Air connection	PT1/4, NPT1/4, G1/4	
Gauge connection	PT1/8, NPT1/8	
Conduit	G1/2, NPT1/2, M20	
Explosion proof type	In progress	
Enclosure	IP66 (EN60529)	
Ambient Temp.	Standard type	-25°C~80°C
	Low temp type	-40°C~80°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 0.01LPM (Sup=0.14MPa)	
Required air quality	Class 4 (ISO 8573-1)	
Flow capacity	Over 75LPM (Sup=0.14MPa)	
Material	Aluminum die cast	Stainless steel 316
Weight	1.5kg	4.0kg
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 code

Model	TS700				
Standard type	TS700				
Remote type	TS720				
Stainless steel 316	TS705				
Motion type	Linear	L			
	Rotary	R			
Acting type	Single acting	S			
	Double acting	D			
Explosion proof type	Non-explosion proof	N			
	ATEX&IECEX	A			
	CCC&NEPSI	C			
	KCS	K			
Connection type	Conduit entry	Air connection			
	G1/2	PT1/4	1		
	G1/2	NPT1/4	2		
	NPT1/2	NPT1/4	3		
	M20	NPT1/4	4		
	M20	G1/4	5		
Lever (Linear type)	10 ~ 80mm		1		
	70 ~ 150mm		2		
	Adapter type (30mm)		3		
	Adapter type (70mm)		4		
Lever (Rotary type)	M6 x 39L		1		
	NAMUR		5		
Ambient Temp.	-25°C~80°C			S	
	-40°C~80°C			L	
Communication	None				0
	4~20mA Position transmitter				1
	HART				2
	HART with 4~20mA Position transmitter				3
Limit switch (For TS700) & TS705)	None				0
	Mechanical type				M
	Proximity type				P
	With dome cover (Without Limit switch)				D
Cable length (For TS720)	5m				1
	10m				2
	User define (Less than 20 meters)				x
Fail Position	Fail freeze type				F
	Fail safe type				S

Dimension [Unit:mm]

