

### Smart Valve Positioner TS700 Series (Fail Freeze type)

- Fail freeze function
- Zero air consumption when standby signal
- Prevents circuit board corrosion by external air exhaust design
- Built in air filter(5 micron)
  - PST & diagnostic function



### 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.

### Features



In progress



- + 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

### TS720 (Remote type)



#### 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



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### Specifications

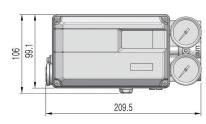
Model		TS700	TS705						
Input signal		4~20mA DC							
Impedance		500Ω at 20mA DC							
Supply pressure		0.14~0.7MPa							
Stroke		10~150mm (Linear), 0~90°(Rotary)							
Air connection		PT1/4, NPT1/4, G1/4							
Gauge connection		PT1/8, NPT1/8							
Conduit		G1/2, NPT1/2, M20							
Explosion proof type		In progress							
Enclosure		IP66 (EN60529)							
	Standard type	-25°C~80°C							
Ambient Temp.	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 W	/ire						
	Supply voltage	10~30	DV DC						
Limit switch rating*	Mechanical type	AC 125V, 3A DC30V, 2A							
	Proximity type	DC8.2	V 8.2A						

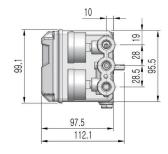
### Product code

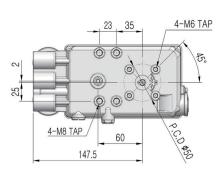
Madal		TCZAA									
Model		TS700									
Stantard type		TS700									
Remote type	~	TS720									
Stainless steel 31	.6	TS705									
Motion type	Linear		L								
	Rota	iry	R								
Acting type	Sing	gle acting		S							
	Dou	ble acting		D							
Explosion	Non-explosion proof N										
proof type	ATEX&IECEX A										
	CCC	&NEPSI			С						
	KCS				Κ						
Connection	Con	duit entry	Air c	onn	ectio	on					
type	G1/2	2	PT1,	/4		1					
	G1/2	2	NPT	1/4		2					
	NPT	1/2	NPT	1/4		3					
	M20		NPT	'		4					
	M20		G1/4	ł		5					
Lever		80mm					1				
(Linear type)		150mm					2				
		tubeless ac		`		'	3 4				
Lever											
(Rotary type)	M6 x 39L 1 NAMUR 5										
Ambient Temp.		C~80°C C~80°C						S			
								L			
Communication									0 1		
	4~20mA Position transmitter HART								1 2		
		T with 4~2	0mA F	Posit	ion	tran	smi	tter	2		
Limit switch	Nor		0111/11	0.511		cran	51111		-	0	
(For TS700)	Mechanical type								М		
&TS705)		kimity type								Ρ	
	With	n dome cov	er (W	itho	ut Li	mit	swi	tch)		D	
Cable length	5m									1	
(For TS720)	10m	ı								2	
	Use	r define (Le	ess tha	an 20	) me	eters	;)			Х	
Fail Position	Fail freeze type								F		
	Fail	safe type									S

\* Options

### Dimension [Unit:mm]







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