

Smart Valve Positioner 6000 Series



Description

6000 Smart valve positioner controls the valve stroke in response to an input signal of 4-20mA from the control panel, DCS, or calibrator.



6000 Standard type



6000 with Limit switch type

Features

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

Installation example



Interface structure



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

Specifications

Model	6000L	6000R
Input signal	4~20mA DC	
Impedance	500Ω at 20mA DC	
Supply pressure	0.14~0.7MPa	
Stroke	10~150mm	0~90°
Air connection	NPT1/4	
Gauge connection	NPT1/8	
Conduit	1/2 NPT	
Explosion proof type	Ex ia IIC T5/T6	
Enclosure	Ip66, Type 4, 4X	
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)	
Flow capacity	Over 100LPM (Sup=0.14MPa)	
Material	Aluminum die cast	
Weight	4.9 Lbs	
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	6000							
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 transmitt							3
Limit switch	None							0
	Mechanical type ¹⁾							M
	Proximity type ²⁾							P

1). Dry contact (NO,NC,COM)

2). Open-collector output (NPN)

Dimension [Unit:mm]

