

## **Proportional Control Angle Seat Valve**



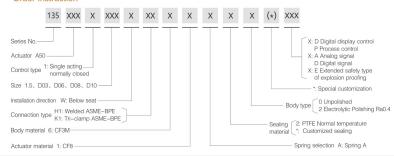


### **Technical Specification**

- Operating pressure: 0-10bar (0-145psi)
- Control pressure: 4–7bar (58–116psi)
- Seal material: PTFE
- Applicable fluid: Water, Neutral gas or Liquid, Organic solvent, Acid and Iye
- Fluid temperature: -10°C -+150°C
- Ambient temperature: -10°C +60°C
- · Control type: Single acting normally closed
- · Connection type: Tri-clamp, Welded

Bellows are used to isolate the medium and meet the requirements of harsh working conditions.

### Order Instruction



**Function Principle** 

Positioner receives 0/4–20mA(0–5/10v) electrical signals from control

system and converts them into air signals to control the valve and

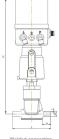
Diaphragm is arranged between the valve body and the bonnet to

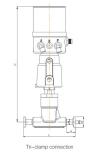
When piston is actuated by compressed air, valve becomes opened

make precise low adjustment using the bellow adjustable seat.

Valve stays closed(open) by spring force in its normal state.

isolate the medium in place of the stem packing.





Welded connection

# 135 Series Main Dimension (Welded connection)

Size	Actuator (mm)	к	L	н	ASME BPE		
					D	S	
DN1.5/3/6	50	275	90	16	12.7	1.65	
DN8/10	50	275	90	16	19.05	1.65	

### 135 Series Main Dimension (Tri-clamp connection)

Size	Actuator (mm)	К	L	ASME BPE				
				D	В	d	Н	
DN1.5/3/6	50	275	122	25	12.7	9.4	20	
DN8/10	50	275	122	25	19.05	15.75	20	

### Single Acting, Normally Closed (NC)-Enter Below Seat Pressure Selection Table

Size	Orifice (mm)	Flow value Kv(m³/h)	Actuator (mm)	Differential pressure range △ P(MPa)	Control pressure (MPa)
BPE-DN1.5	1.5	0.09	50A	0-1.0	≥ 0.45
BPE-DN3	3	0.26	50A	0-1.0	≥0.45
BPE-DN6	6	0.8	50A	0-1.0	≥0.45
BPE-DN8	8	1.43	50A	0-1.0	≥0.45
BPE-DN10	10	2.16	50A	0-1.0	≥0.45

Note: In order to ensure product performance, it is recommended to select product according to the highest value in the <= 90% pressure range

### Opening (%) - Kv value (m³/h) chart of proportional angle seat valve

Size	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
BPE-DN1.5	0.011	0.021	0.032	0.043	0.054	0.064	0.073	0.082	0.085	0.09
BPE-DN3	0.025	0.059	0.1	0.13	0.16	0.19	0.21	0.23	0.24	0.26
BPE-DN6	0.03	0.075	0.156	0.247	0.332	0.442	0.53	0.63	0.726	0.8
BPE-DN8	0.05	0.15	0.26	0.39	0.53	0.73	0.98	1.27	1.42	1.43
BPE-DN10	0.1	0.26	0.42	0.61	0.82	1.08	1.45	1.8	2.03	2.16