

The Series Z-6300 High-pressure In-line Flow Monitor

Unrestricted mounting, dual scales, optional switch output, from 1/2" - 2" Pipe



The Series Z-6300 High-pressure In-line Flow Monitor are spring-loaded variable-area flowmeters. They can be installed and used in any direction. These instruments measure flow rate by balancing the drag force of a spring with the force exerted on a float, which is propelled by fluid flow. When fluid passes through a tapered tube, the float experiences a thrust due to the fluid's kinetic energy, while the spring provides an opposing resistance. As the flow rate increases, the float moves further, expanding the annular passage area. Ultimately, the float stabilizes at a position where the spring force balances the hydrodynamic force, directly indicating the flow rate via its position.

FEATURES

- Withstands 35MPa high pressure
- The scale can rotate 360 degrees
- Installable in any direction
- Optional with alarm switch output
- Measurement unaffected by gravity
- Ideal for applications with vibration
- Low pressure loss, high reliability
- Wide fluid compatibility
- Installation requires no upstream or downstream straight pipeline
- Ready to use upon installation, convenient operation

APPLICATIONS

- Petrochemical Industry
- Metallurgical Industry
- Textile Industry
- Pharmaceutical Industry
- Semiconductor Industry
- Food and Beverage Industry
- Paper and Pulp
- Power Plants
- Urban Water Supply and Drainage
- Environmental Protection
- New Energy Industry
- Shipbuilding Industry

SPECIFICATIONS

Service	Liquid
Wetted Material	304 Stainless Steel
Accuracy	±10%
Temperature Rating	0°C to 100°C
Pressure Rating	Less than 35MPa
Alarm Output	Optional high alarm, low alarm, or both H/L alarms

MODEL CHART

Example	Z-63	12	-M	-NPT	
Series	Z-6300				High-pressure In-line Flow Monitor
Scale Range		11			0.2L/min - 2L/min, BSP 1/4", AxBxCxDxExF = 32x27x21x123x7x32
		12			0.5L/min - 4.5L/min, BSP 1/4", AxBxCxDxExF = 32x27x21x123x7x32
		13			2L/min - 10L/min, BSP 1/4", AxBxCxDxExF = 32x27x21x123x7x32
		14			2L/min - 20L/min, BSP 1/2", AxBxCxDxExF = 40x32x31x165.5x12.5x44
		15			5L/min - 46L/min, BSP 1/2", AxBxCxDxExF = 40x32x31x165.5x12.5x44
		16			5L/min - 55L/min, BSP 3/4", AxBxCxDxExF = 48x44x36x190x15x50
		17			10L/min - 100L/min, BSP 3/4", AxBxCxDxExF = 48x44x36x190x15x50
Alarm output			U		High alarm only
			D		Low alarm only
			M		Both high and low alarms
			N		No alarm output
Option			NPT		Change BSP connection to NPT connection

Specifications

Model	Thread Dimensions(G)	Measurement Range(L/min)	Working Pressure(Bar)	Size(mm)					
				A	B	C	D	E	F
Z-6312	1/4"	0.5-4.5	350	32	27	21	123	7	32
Z-6313	1/4"	2-10	350	32	27	21	123	7	32
Z-6314	1/2"	2-20	350	40	32	31	165.5	12.5	44
Z-6315	1/2"	5-46	350	40	32	31	165.5	12.5	44
Z-6316	3/4"	5-55	350	48	44	36	190	15	50
Z-6317	3/4"	10-100	350	48	44	36	190	15	50
Z-6318	1 1/4" (1 1/2")	20-180	350	84	79	66	210	18	79

*NPT Optional