Wedge type flow element

Wedge shaped orifice plate is detecting element for the wedge type flow meter. It is a V-Shaped of throttle, and the smooth vertex is facing down. This is conducive to liquid which contains suspended or viscous particles passing through, and the liquid won't be choked up at upstream in the throttle.

Feature

The wedge type flow meter is available for:

- 1. The liquid which viscous is higher than 500 mPa·s, such as fuel oil, residual oil and heavy oil.
- 2. Liquid-Solid mixture which contains suspended particles, such as slurry or sewage.
- 3. The Reynolds is available for Rep=300 to 106, therefore it can be used in the fluid of gases and steam.
- 4. The common technical parameters is 25mm≤ D ≤300mm, $PN \le 6.4 MPa$, $t \le 200 ° \dot{C}$.

Technical Data

Style: Integral or Separate available Service: Please refer to the Feature as above Material: SS316 standard; option available

Accuracy: <1.0"±0.75" of coefficient accuracy (wet calibrated);

±0.5% of actual flow rate over calibrated range

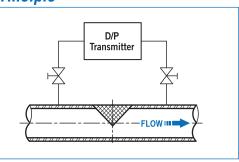
Repeatability: ±0.2%

Line Size: Unlimited range, with examples from ½" to 36" End Connection: Flange end, thread end or Weld end available

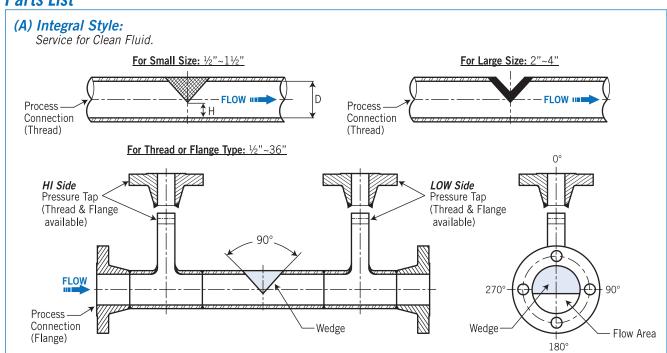
Limited Temperature: Integral Style: max. 150°C; Separate Style: max. 370°C

Limited Pressure: Integral Style: 10~21 MPa; Separate Style: 2 MPa

Principle

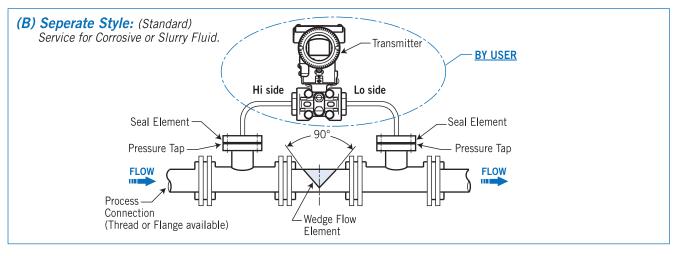


Parts List



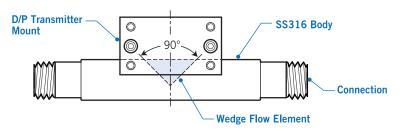
Approvals:





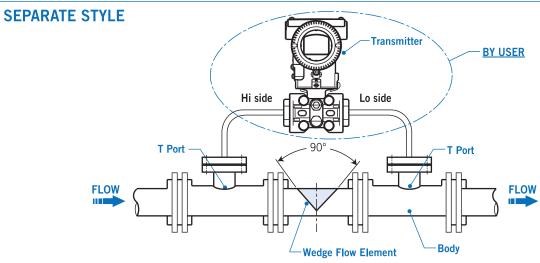
Configuration Style

INTEGRAL STYLE



Integral Style:

- 1. Wedge type combines with D/P transmitter for the integral style.
- 2. Connection type can be thread or flange available.



Separate Style:

- 1. The tapping is T port, and the pressure taps of positive and negative are separately at the each side of wedge plate.
- 2. Positive tap is to the Hi side (upstream); Negative is to the Lo side (downstream).
- 3. The length of Hi side to the wedge plate is equal to the length of Lo side to the wedge plate.
- 4. To change the flow rate, please replace the measuring tube of throttle. And, if using the diaphragm seal D/P transmitter, it will separate the medium from the piping, so this type is suitable for using to measure in the dirty medium.

Length of Straight Pipe

Long an or or are the						
TVDICAL DIDE LENGTH DECHIDEMENTS	PREF	ERRED	MINIMUM			
TYPICAL PIPE LENGTH REQUIREMENTS	Up	Down	Up	Down		
Partially Opened Gate Valve	10D	5D	10D	3D		
Concentric Increaser	10D	5D	5D	3D		
Concentric Reducer	10D	5D	5D	3D		
1 Elbow	10D	5D	5D	3D		
2 Elbows Close Coupled In-Plane	10D	5D	5D	3D		
3 Elbows Close Coupled Out-Of-Plane	10D	5D	10D	3D		



Ordering Data Sheet

	Individual Specification	Requirement	Requirement
GENI	ERAL		
01	Tag No.		
02	P & I.D No.		
03	Service		
04	Line No.		
05	Line Size & Schedule		
06	Calculatoin Standard		
07	NACE Requirement		
08	Service Condition Case		
PRIM	IARY ELEMENT		
09	Sensor Type		
10	Wetted Parts Material		
11	H Dimensions (mm)		
12	H/D Ratio (mm)		
13	Calcu. Diff. Pressure (mmH ₂ O)		
14	Design Diff. Pressure (mmH ₂ O)		
15	Body Process Connection (Size Rating)		
16	Body & Flange Material		
17	Pressure Taps Type		
18	Pressure Taps Connection (Size Rating)		
19	Flange Type (Body & Taps)		
MET	ER		
20	Type of Meter		
21	Scale Range		
22	Scale Unit		
FLUI	D DATA		
23	Fluid		
24	Fluid State		
25	Flow Unit		
26	Maximum Flow for Sizing		
27	Maximum Flow		
28	Normal Flow		
29	Oper. Pressure (Kg/Cm ² G)		
30	Oper. Temperature (°C)		
31	Sp. Gr. @FTP		
32	Sp. Gr. @Base Condition		
33	Compress Factor		
34	Mol. Wt.		
35	Cp / Cv		
36	Oper. Viscosity (Cp)		
37	Oper. Density @FTP (Kg/M³)		
38	Steam Superheat (°C)		
39	Static Pressure Range (Kg/Cm ² G)		
40	Max. Allowable DP (Kg/Cm²)		
41	Base Condition		
42	Manufacturer		
43	Model		

Ordering Information

WF		Code	Style							
		Α	Integral	Integral style						
		В	Seperat	rate style						
		T	Code							
			S	SS316 0			O Option			
				Code Line Size			ze	e		
				Please directly fill out the request size ½" to 36" (option)			e request size ½" to 36" (option)			
					Code Process Connection Size			ion Size		
			T Thread (1) ½" (2) ¾" (3) 1" (4) 1½" (5) Option							
						F	Flange (6) ½" (7) ¾" (8) 1" (9) 1½" (10) 2" (O) Please directly fill out the request size (maximum 36"). Code Process Connection Rating (1) NPT, female (2) BSP, female (3) ANSI 150#RF (4) ANSI 300#RF (0) option			
										T, female (2) BSP, female (3) ANSI 150#RF (4) ANSI 300#RF (0) option
					Code Pressure Tap Size					
						Т	Thread Type: (For Integral Style only) (1) ½"NPT(F) (2) ¾"NPT(F) (3) 1"NPT(F) (4) option			
F				F	Flange Type: (For both of Integral Style or Seperate Style) (5) 2" ANSI 150#RF (6) 3" ANSI 150#RF (7) 2" ANSI 300#RF (8) 3" ANSI 300#RF (9) option					
\blacksquare		V	V	V		V		,	V	
WF										Complete Ordering Code

Ordering code example: WF-A-S-1"-T(3)-1-T(1)

- WF-A-S-1"-T(3)-1-T(1)

 → WF = Model

 → A = Style: Integral style

 → S = Body Material: SS316

 → 1" = Line Size: 1"

 → T(3) = Process Connection Size: Thread 1"

 → 1 = Process Connection Rating: NPT, female

 → T(1) = Pressure Tap Size: Thrad type, ½"NPT(F)