



GSAV-4000 Series

Venturi Tube Flow meter with
Relatively Low Pressure Loss

■ FEATURE

- Applicable to most of fluids
- Special design to minimize pressure loss
- Can be used for high temperature and pressure fluids and their piping conditions
- Momentary flow and integrated flow can be easily checked on the monitor
- The output signal can be linked with various devices
- Can be freely installed horizontally and vertically
- Can be manufactured with a small diameter up to a large diameter

■ APPLICATIONS

- ▶ Chemical and Other Process Industries
 - Injecting fibric products with adhesiveness
 - Emulsified liquid including latex and emulsion.
 - Condensate and Cooling water
- ▶ Refinery & Gas Industry
 - Injection plant for corrosion, scaling and hydrate inhibitors
 - Nitrogen, Flue gas, etc.
- ▶ Machinery and Equipment (OEM industry)
 - Coolant, Lubricant, Air supply
- ▶ Water resources
 - Spray oxygen on the aeration basin
 - Air injection to reduce iron content
- ▶ Power plants and Nuclear power industry

■ GSAV-4000 General Specifications

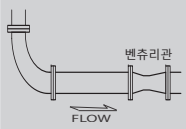
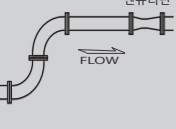
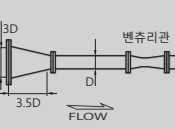
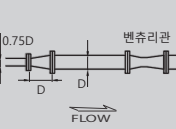
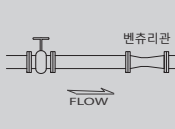
Size	10A (3/8") - 300A (12")
Process Connection	Flange type - KS / JIS / ANSI / ASME / DIN Std. Taper Pipe Thread type (PT)
Flow Ranges	Water - 0.1 m ³ /h ~ 1600 m ³ /h Air - 0.8 Nm ³ /h ~ 15600 Nm ³ /h
Accuracy	±1.0 % F.S (Option ±0.5 % F.S)
Fluid Temperature	Max 120 °C
Max. Pressure	Max. 30 kgf/cm ² .G
Power Supply	DV 24V (2-Wire), AC 110/220 V
Output	DC 4-20 mA, Pulse

■ FLOW RANGE

Connection size		Flow ranges	
		Water (m ³ /h)	Air (Nm ³ /h)
15A	1/2 B	0.1 - 2	1 - 20
20A	3/4 B	0.25 - 5	2.5 - 50
25A	1 B	0.5 - 10	5 - 100
32A	1-1/4 B	1 - 20	6 - 120
40A	1-1/2 B	1.5 - 30	10 - 200
50A	2 B	2.5 - 50	20 - 400
65A	2-1/2 B	3.5 - 70	30 - 600
80A	3 B	5 - 100	40 - 800
100A	4 B	8 - 160	80 - 1600
125A	5 B	12.5 - 250	125 - 2500
150A	6 B	20 - 400	170 - 3400
200A	8 B	30 - 600	280 - 5600
250A	10 B	50 - 1000	500 - 10000
300A	12 B	80 - 1600	780 - 15600

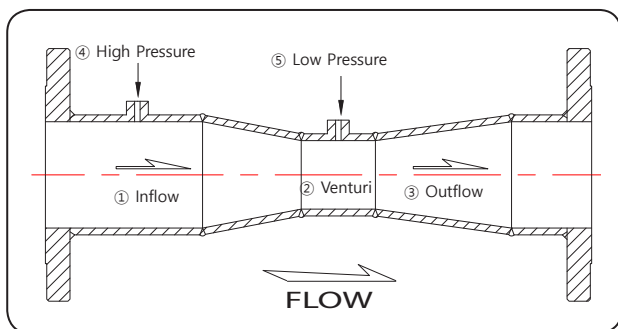
PIPING CONFIGURATION (KS A 0612)

Minimum length of the required diameter between the top and bottom pipes and the venturi tube.

Tightening Diameter Ratio β	Upstream					Downstream
	 90° Bend	 Two or more 90° bends on the same plane	 Shrinkage tube	 Expansion tube	 Gate valve	All the joints on the left, etc.
0.30	0.5	1.5	0.5	1.5	2.5	Measure at least 4 times the diameter of the consult, measured at the pressure outlet of the consult.
0.35	0.5	1.5	1.5	1.5	2.5	
0.40	0.5	1.5	2.5	1.5	2.5	
0.45	1.0	1.5	4.5	2.5	3.5	
0.50	1.5	2.5	5.5	2.5	3.5	
0.55	2.5	2.5	6.5	3.5	4.5	
0.60	3.0	3.5	8.5	3.5	4.5	
0.65	4.0	4.5	9.5	4.5	4.5	
0.70	4.0	4.5	10.5	5.5	5.5	
0.75	4.5	4.5	11.5	6.5	5.5	

- The radius of curvature of the bend shall not be less than the inside diameter of the pipe.

STRUCTURAL DRAWING



STANDARD MATERIAL

No.	Description	Material	
		A	B
1	Venturi tube	304SS	316SS
2	Pressure tube	304SS	316SS

✓ Product body size varies according to flow design