

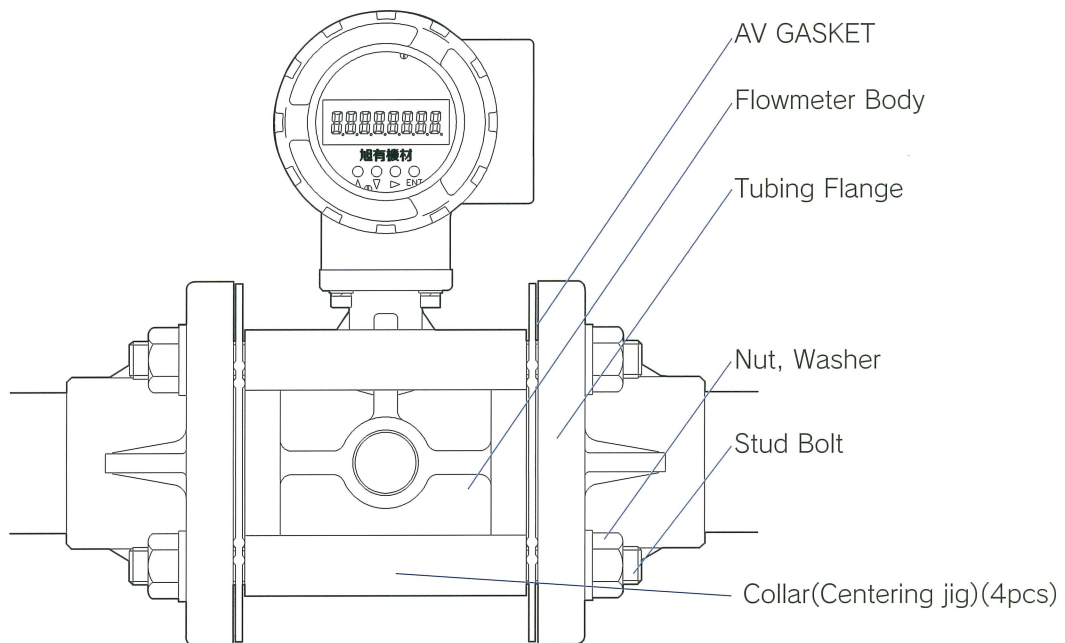
Ultrasonic-Vortex Flow Meter ASUSV Series



FEATURES

- No Corrosion (All Plastic)
- Suitable for Dil & Mixed Acids Compared to Magnetic Flowmeters Prone to Corrosion or Leachables
- Light Weight
1/2 - 1/4 The Weight of Metallics
- High Accuracy ($\pm 1.0\%RD$)
Compare to other Vortex Designs ($\pm 1.0-3.0\%$)

INSTALLATION METHOD



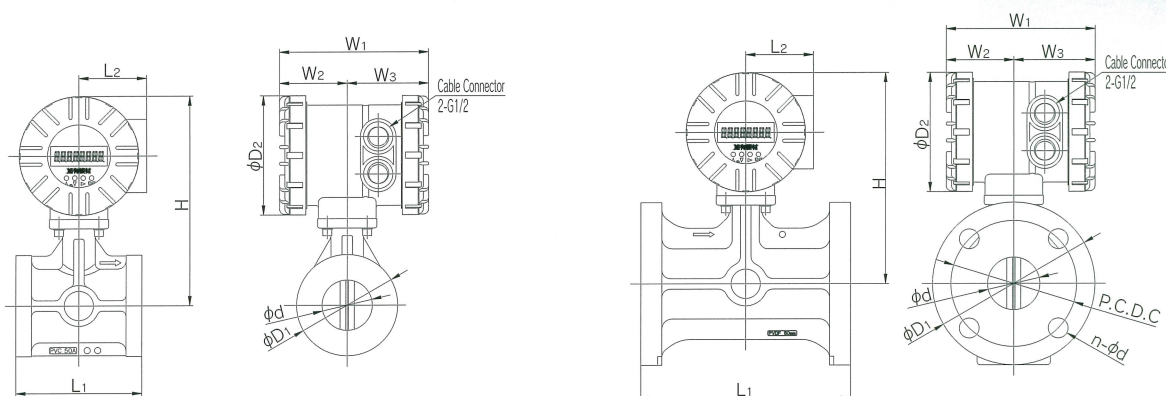
RECOMMENDED TIGHTENING TORQUE

Nominal Size mm(inch)	N·m{kgf-cm}					
	20(3/4)	25(1)	40(1 1/2)	50(2)	80(3)	100(4)
P V C	15	15	20	25	30	30
P V D F	15	15	20	25	30	30

SPECIFICATIONS

Diameter & Tubing connection	Wafer : 20-100mm(3/4"-4") Flange : 20-50mm (3/4"-2")					
Measuring range	About 0.5 to 5m/sec(For more details, see [Range of Flowrate Measurement] on page 4.)					
Measurement accuracy	± 1%R.D. (±0.5% R.D. also accommodated)					
Wetted material	Wafer : PVC, PVDF Flange : PVDF					
Fluid temperature	0 to 55°C (PVC), - 10 to 100°C (PVDF)					
Ambient temperature	0 to 55°C (PVC), - 10 to 60°C (PVDF)					
Maximum working fluid pressure	1.0MPa					
Display	Total integrating/Instantaneous flowrate/% flowrate/reset integrating flowrate (The display mode is externally selectable using the accessory magnet.) Unit, Equipment alarm					
Analog output	4-20 mA two-wire load resistance up to 300 Ω Open collector output: One-shot width					
Pulse output	20A 1.3ms	25A 1.82ms	40A 2.86ms	50A 3.90ms	80A 5.98ms	100A 9.62ms
Alarm output	Open collector output: Upper and lower limit output/alarm output Open collector output concurrently with pulse output is not available, though.					
Case material	PC					
Supply voltage	24VDC ± 10%					
Protective structure	IP66 equivalent (avoid exposure to direct sunlight)					

DIMENSIONS TABLE



DIMENSIONS TABLE

Nominal Size		L ₂	W ₁	W ₂	W ₃	φD ₂	Wafer				Flange (JIS 10K)							Unit:mm(inch)	
mm	inch						L ₁	H	φD ₁	φd	L ₁	H	φD ₁	φd	C	n	e		
20	3/4	64.5 (2.54)	138 (5.43)	62.5 (2.46)	75.5 (2.97)	144 (5.67)	85 (3.35)	187.5 (7.38)	53 (2.09)	19 (0.75)	200 (7.87)	180 (7.08)	100 (3.94)	19 (0.75)	75 (2.95)	4	15 (0.59)		
25	1	64.5 (2.54)	138 (5.43)	62.5 (2.46)	75.5 (2.97)	144 (5.67)	93 (3.66)	190 (7.48)	62 (2.44)	24 (0.94)	200 (7.87)	190 (7.48)	125 (4.92)	24 (0.94)	90 (3.54)		19 (0.75)		
40	1 1/2	64.5 (2.54)	138 (5.43)	62.5 (2.46)	75.5 (2.97)	144 (5.67)	106 (4.17)	197.5 (7.77)	77 (3.03)	38.5 (1.52)	200 (7.87)	197 (7.75)	140 (5.51)	38.5 (1.52)	105 (4.13)		19 (0.75)		
50	2	64.5 (2.54)	138 (5.43)	62.5 (2.46)	75.5 (2.97)	144 (5.67)	120 (4.72)	202.5 (7.97)	96.5 (3.80)	48.5 (1.91)	200 (7.87)	204 (8.03)	155 (6.10)	48.5 (1.91)	120 (4.72)		19 (0.75)		
80	3	64.5 (2.54)	138 (5.43)	62.5 (2.46)	75.5 (2.97)	144 (5.67)	160 (6.30)	225 (8.86)	127 (5.00)	72.5 (2.85)	—	—	—	—	—	—	—		
100	4	64.5 (2.54)	138 (5.43)	62.5 (2.46)	75.5 (2.97)	144 (5.67)	180 (7.08)	239.5 (9.43)	155.5 (6.12)	94 (3.70)	—	—	—	—	—	—	—		

FLOW RATE

Nominal Size (mm)	Min. Flowrate (m ³ /h)					Max. Flowrate (m ³ /h)
	Kinematic Viscosity × 10 ⁻⁶ m ² /s (cst)					
	1	2	3	4	5	
20	0.9	1.8	2.7	3.6	4.5	5.4
25	1.4	2.8	4.2	5.6	7.0	8.5
40	3.6	7.2	10.8	14.4	18.0	22.0
50	5.9	11.8	17.7	23.6	29.5	34.0
80	13.4	26.8	40.2	53.6	67.0	88.0
100	22.6	45.2	67.8	90.4	113.0	137.0
Flowrate	0.8m/sec	1.6m/sec	2.4m/sec	3.2m/sec	4.0m/sec	5.0m/sec