

GENERAL

ALIAVA The AVF250 Series flowmeter is commonly used in location that required on-site analog flow indication.

The meter accurately measures small volumes / wide ranges of liquids, gases and steam.

FEATURES

- ❑ 5 Digit Flowrate & 8 Digit Totalizer
- ❑ Local indication without auxiliary power
- ❑ 4-20 mA & scale pulse output
- ❑ Low pressure loss in gas and steam application
- ❑ Damper for Gas / Steam application
- ❑ Consistent overall length
- ❑ Heating jacket design
- ❑ Intrinsically safe & explosion proof for hazardous area

STANDARD SPECIFICATION

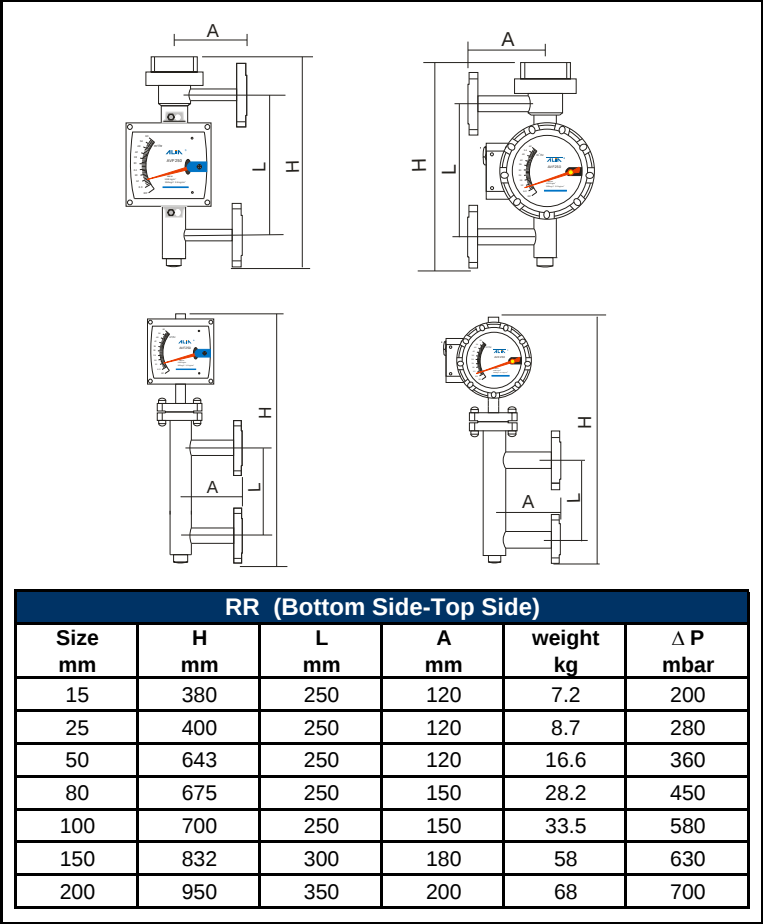
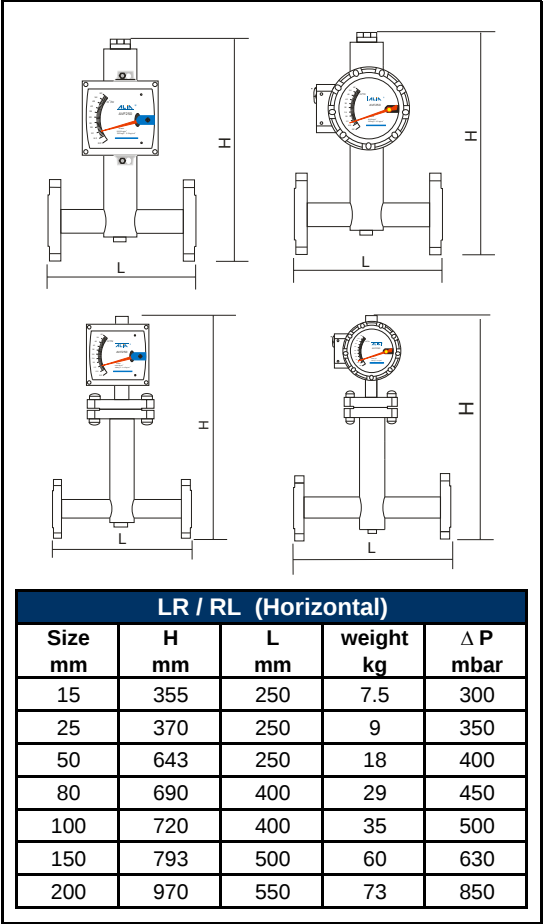
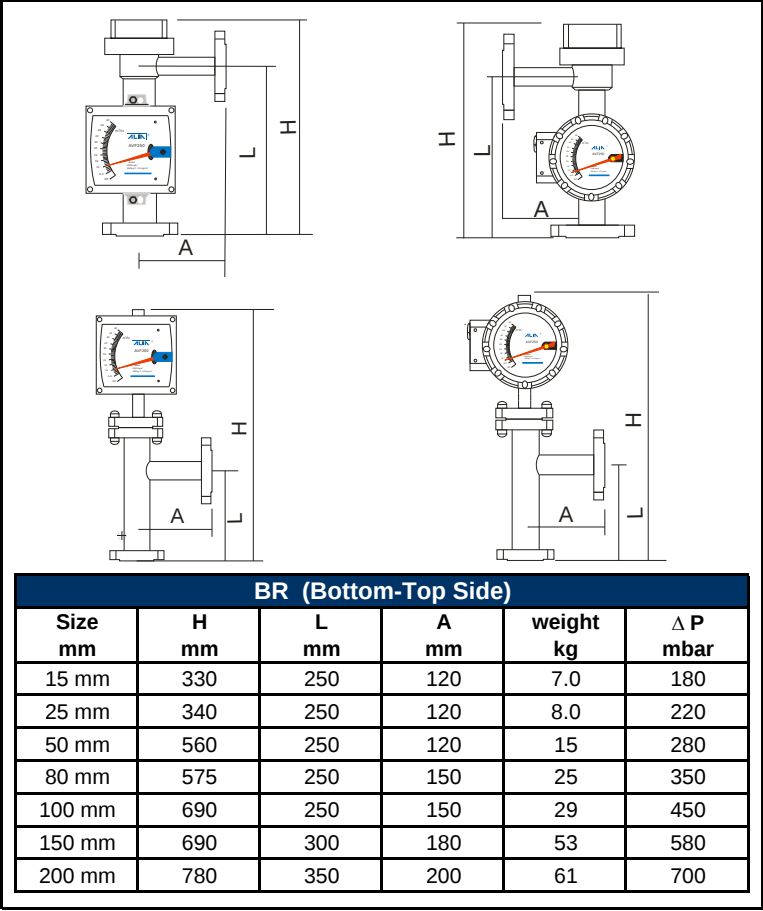
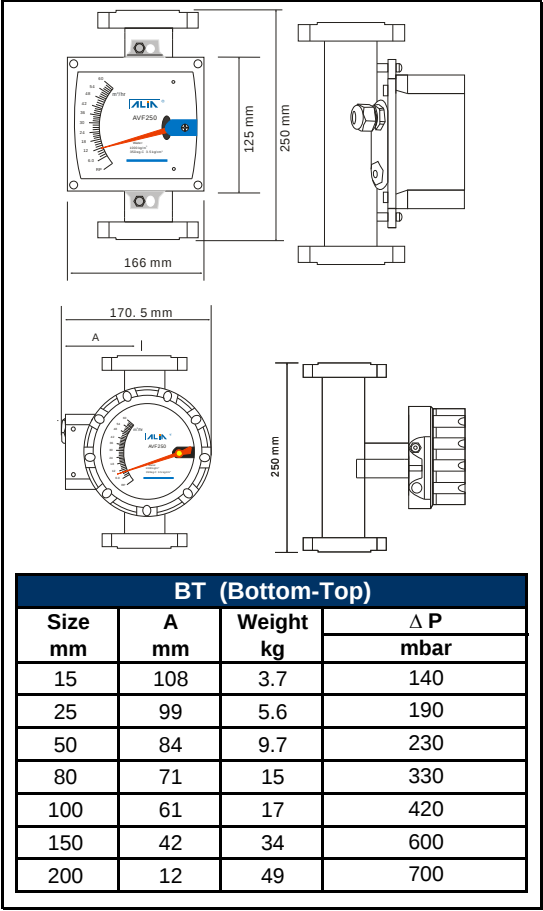
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|---------------------|---|-----------------------|--|
| ● Size | : 15,20,25,40,50,65,80,100,125,150,200 mm | ● Local Display | : Mechanical Indicator (Standard) |
| ● Measuring Range | : Liquid -1~200000 L/hr | Digit Display | : 5 Digit Flowrate |
| | : Gas -0.03~3000 m ³ /hr | | : 8 Digit Totalizer |
| ● Turndown Ratio | : 10:1 (20:1 Optional) | ● Current Output | : 4-20 mA (2 Wire) |
| ● Accuracy | : +/-1.6% (Standard) | Load | : Max. 600 Ω |
| | : +/-1.0% (Optional) | ● Pulse Output | : Open collector (Scale pulse) |
| ● Repeatability | : +/-0.5% FS | Rating | : 3-30 VDC, 100 mA Max. |
| ● Material | | ● Data Storage | : Operation parameters and totalizer figures are stored by EEPROM for more than 10 years |
| Tube & Float | : Stainless Steel 304 | ● Alarm Output | : 2 Point (Open collector) |
| | : Stainless Steel 316 | Rating | : 3-30 VDC, 100 mA Max. |
| | : Stainless Steel 316L | ● Keypad | : 3 Internal keys for programming and display control |
| | : Stainless Steel + PTFE Liner | ● Ambient Temperature | : -25~60 °C |
| ● Standard Pressure | : 40 kgf/cm ² (15-50 mm) | ● Protection Class | : IP65 |
| | : 16 kgf/cm ² (65-200 mm) | | : Intrinsically Safe, Eex ia IIC T5 |
| ● Temperature | : -25~200 °C (Standard) | | : Explosion Proof, Ex d IIB T6 |
| | : -25~100 °C (LCD Display) | ● Housing Material | : Aluminum Alloy |
| | : 0~80 °C (PTFE Liner) | ● Cable Entry | : Standard: M20 Option: 1/2"NPTF |
| | : -80~400 °C (Optional) | ● Pressure Loss | : 0.07-0.7 kgf/cm ² |
| ● Flange Type | : JIS 10K / JIS 20K / JIS 40K | ● Power Supply | : 12-36 VDC (2 wire 4-20 mA) |
| | ANSI 150# / ANSI 300# / ANSI 600# | | : Ni-MH Battery (3 years working hours) |
| | DIN PN10 / PN16 / PN25 / PN40 | | |
| ● Fluid Viscosity | : 300 cP Max. | | |
| ● Communication | : RS485 (MODBUS Protocol) | | |
| | : HART signal (Compatible) | | |



FLOW RANGE

Size					Float No.	S.S. 304 / 316 / 316L	S. S. + PTFE	S.S. 304 / 316 / 316L
						Water, 20 °C		Air, 0 °C, 1 ATM
						L/hr	L/hr	L/hr
15 mm	1/2"	20 mm	3/4"		F15.0	1.0 - 10		0.03 - 0.3
					F15.1	1.6 - 16		0.07 - 0.7
					F15.2	2.5 - 25	1.6 - 16	0.11 - 1.1
					F15.3	4.0 - 40	2.5 - 25	0.18 - 1.8
					F15.4	6.3 - 63	4.0 - 40	0.28 - 2.8
					F15.5	10 - 100	6.3 - 63	0.4 - 4.0
					F15.6	16 - 160	10 - 100	0.7 - 7
					F15.7	25 - 250	16 - 160	1.0 - 10
					F15.8	40 - 400	25 - 250	1.6 - 16
					F15.9	63 - 630	40 - 400	3.0 - 30
25 mm	1"	40 mm	1-1/2"		F25.0	63 - 630		
					F25.1	100 - 1,000	63 - 630	3.0 - 30
					F25.2	160 - 1,600	100 - 1,000	4.5 - 45
					F25.3	200 - 2,000		
					F25.4	250 - 2,500	160 - 1,600	7.0 - 70
					F25.5	320 - 3,200		
					F25.6	400 - 4,000	200 - 2,000	12 - 120
					F25.7	500 - 5,000	250 - 2,500	
50 mm	2"	65 mm	2-1/2"		F25.8	630 - 6,300	320 - 3,200	18 - 180
					F50.0	500 - 5,000		
					F50.1	630 - 6,300	400 - 4,000	18 - 180
					F50.2	1,000 - 10,000	630 - 6,300	25 - 250
					F50.3	1,600 - 16,000	1,000 - 10,000	40 - 400
80 mm	3"				F50.4	2,000 - 20,000	1,600 - 16,000	
					F50.5	2,500 - 25,000		63 - 630
					F80.0	1,600 - 16,000		
					F80.1	2,000 - 20,000		
100 mm	4"	125 mm	5"		F80.2	2,500 - 25,000	1,600 - 16,000	70 - 700
					F80.3	4,000 - 40,000	2,500 - 25,000	120 - 1,200
					F80.4	6,300 - 63,000	4,000 - 40,000	180 - 1,800
					F100.0	4,000 - 40,000		
150 mm	6"				F100.1	6,300 - 63,000	4,000 - 40,000	180 - 1,800
					F100.2	8,000 - 80,000	6,000 - 60,000	
					F100.3	10,000 - 100,000		300 - 3,000
					F150.0	8,000 - 80,000		
200 mm	8"				F150.1	10,000 - 100,000		300 - 3,000
					F150.2	15,000 - 150,000		
					F150.3	20,000 - 200,000		
					F200.0	15,000 - 150,000		
					F200.1	20,000 - 200,000		

DIMENSIONS



MODEL SELECTION GUIDE

AVF250 Series									
Example: AVF250-050-S6ABT-B-IT-D									
AVF250-	XXX	-XX	X	XX	-X	-XX	-X	Description	
Size	015-200							15-200 mm (1/2"-8")	
Material			-S4					Stainless Steel 304	
			-S6					Stainless Steel 316	
			-SL					Stainless Steel 316L	
			-4P					Stainless Steel 304 + PTFE Liner	
			-6P					Stainless Steel 316 + PTFE Liner	
Process Connection			1					PN10	
			2					PN16	
			3					PN25	
			4					PN40	
			A					ANSI 150#	
			B					ANSI 300#	
			C					ANSI 600#	
			J					JIS 10K	
			K					JIS 20K	
			L					JIS 40K	
			Z					Others	
Flow Direction			BT					Bottom-Top	
			BR					Bottom-Top Side	
			RR					Bottom Side-Top Side	
			LR					Left-Right (Horizontal)	
			RL					Right-Left (Horizontal)	
Function			-A					Local Indication	
			-B					Local Indication + Rate 5 digit / Totalizer 8 digit + 4-20 mA	
			-C					Local Indication + Rate 5 digit / Totalizer 8 digit (Battery Power)	
			-D					Local Indication + One point Alarm (Reed Switch, 1 A, 30 VDC)	
			-E					Local Indication + Two point Alarm (Reed Switch, 1 A, 30 VDC)	
Protection Class			-NN					IP65	
			-IT					Intrinsically Safe, Eex ia IIC T5	
			-EX					Explosion Proof, Ex d IIB T6	
Option			-N					None	
			-C1					RS485 (MODBUS Protocol)	
			-C2					HART Signal (Compatible)	
			-D					Damper (For Steam & Gas Application)	
			-H					Heating Jacket	
			-P1					Pulse Output * 1 (With Function B Only)	
			-P2					Alarm Output * 2 (With Function B Only)	
			-T					Max. Temp. higher than 200 °C (100 °C for LCD Display)	
			-PT					Cable Entry 1/2" NPTF	