



MGE Series

Metal Tube Flow meter for High-Pressure and Extreme Temperature

FEATURE

- KC - EMC (KN 61000-6-4) Certificate
- Applicable to varied fluids such as liquids, gases, steam, etc.
- Can be used for high temperature and pressure fluids and their piping conditions
- Can be easily check Instantaneous flow rate and Accumulated flow rate on the monitor
- Explosion Proof : Ex d IIC T5
- Protection : IP67
- Combined with various equipment for external output signal
- Can be freely designed as front end/rear end depending on piping condition
- Manufactured from small to large diameter

APPLICATIONS

- ▶ Chemical and Other Process Industries
- Additives (e.g. Catalysts, Surfactants, Foam-inhibitors, Emulsifiers)
- Acids, Bases, Phosphates and Other Chlorides, Sulfuric Acid Substances
- Condensate and Cooling Water
- ▶ Refinery & Gas Industry
- Nitrogen, Flue Gas, etc.
- ▶ Machinery and Equipment (OEM Industry)
- Coolant, lubricant, Air Supply
- ▶ Water Industry
- Spray Oxygen on the Aeration Basin
- ▶ Power Plants and Nuclear Power Industry

MGE Series General Specifications

Size	10A (3/8") - 200A (8")
Process Connection	Flange type - KS / JIS / ANSI / ASME / DIN Std.
Flow Ranges	Water - 0.02 m ³ /h ~ 200 m ³ /h Air - 0.06 Nm ³ /h ~ 3000 Nm ³ /h
Range Ability	10 : 1
Accuracy	±2.0 % F.S (Option ±1.5 % M.V)
Fluid Temperature	Max 150 °C (Option 250 °C)
Max. Pressure	Max. 10 kgf/cm ² .G (Option 150 kgf/cm ² .G)
Power Supply	DC 24V (2-Wire)
Display	Flow rate, Totalizer
Output	DC 4-20 mA, Hart
Protection Class	Ex d IIC T5 / IP67

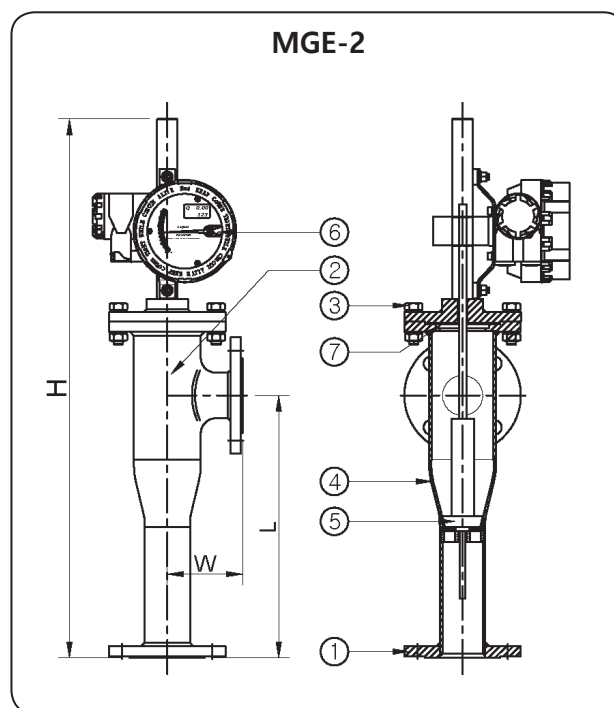
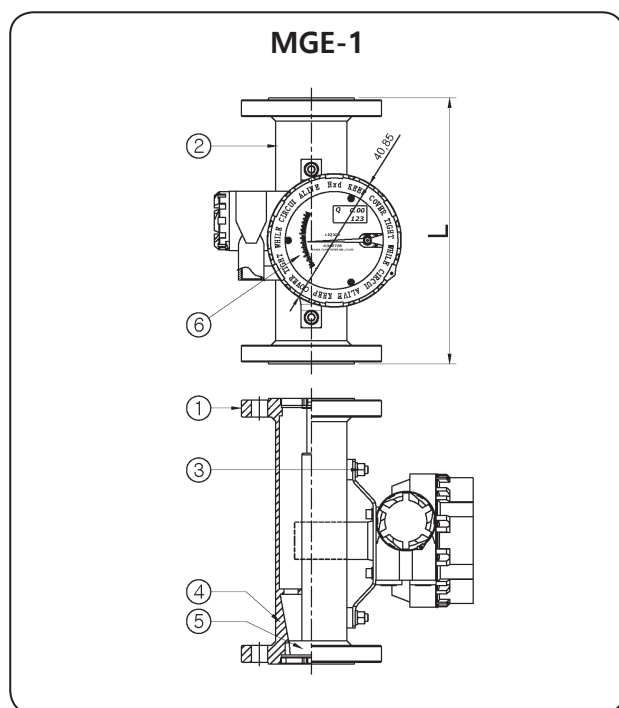
MODEL CODE

M	G	E	-	□	-	□	Specification
				1			Bottom to Top
				2			Bottom to Top side
				4			Bottom side to Top side
				5			Side to Side
					SH		LC Display, DC 4-20 mA (2-Wire), Hart Communication
					S		DC 4-20 mA

STANDARD MATERIAL

No.	Description	Material		
		A	B	C
1	Flange	304SS	316SS	316LSS
2	Body	304SS	316SS	316LSS
3	Bolt, Nut	304SS		
4	Taper tube	304SS	316SS	316LSS
5	Float	304SS	316SS	316LSS
6	Indicator	ALUMINUM		
7	Gasket	EPDM, NON-ASBESTOS, PTFE		

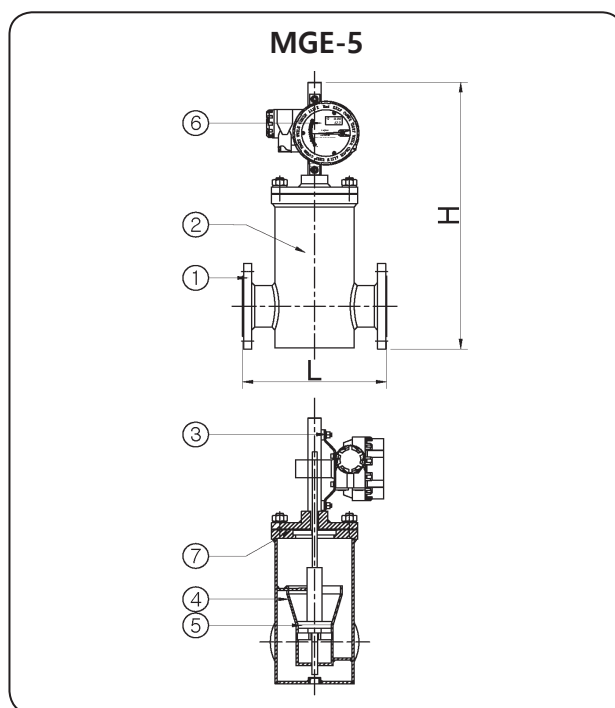
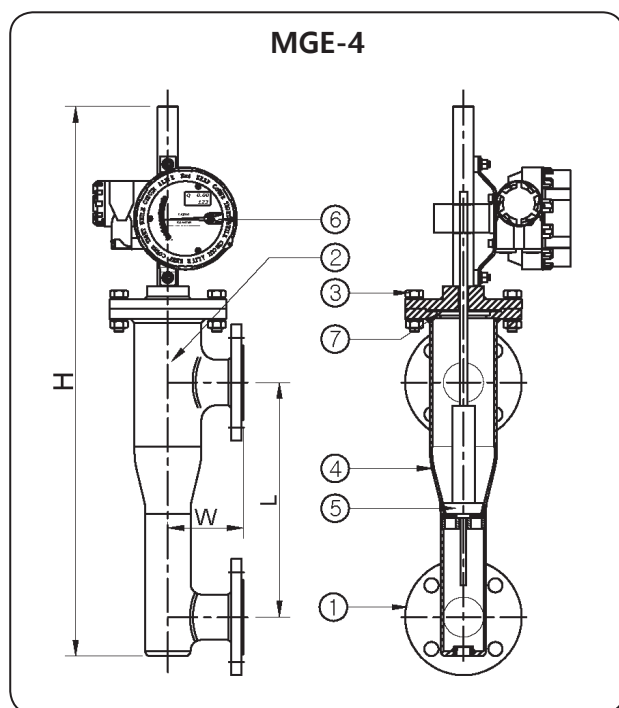
STRUCTURAL DRAWING



FLOW RANGE & DIMENSIONS

Connector size		MGE-1				MGE-2						Flow Range	
		L (mm)	Pressure Loss (mmAq)		W (kg)	L (mm)	W (mm)	H (mm)	Pressure Loss (mmAq)		W (kg)	Water (m ³ /h)	Air (Nm ³ /h)
			Water	Air					Water	Air			
15A	1/2 B	250	650	1000	5	250	80	518	850	280	8	0.02-0.2 0.2-2	0.6-6 3-30
20A	3/4 B	250	600	1000	5	250	80	540	910	400	8	0.08-0.8 0.35-3.5	1.5-15 5-50
25A	1 B	250	730	1100	6	300	100	610	600	270	10	0.1-1 0.6-6	2-20 9-90
32A	1-1/4 B	250	800	1000	7	300	100	625	600	270	11	0.1-1 1-10	2-20 15-150
40A	1-1/2 B	250	900	1200	8	350	100	700	500	290	12	0.2-2 1.5-15	4-40 20-200
50A	2 B	250	630	1000	10	350	120	720	800	340	15	0.5-5 2.5-25	6-60 40-400
65A	2-1/2 B	350	780	1650	13	400	150	810	650	260	22	0.8-8 4-40	10-100 60-600
80A	3 B	350	910	2300	15	400	150	850	1270	400	25	1.2-12 5-50	12-120 80-800
100A	4 B	350	1200	2400	20	450	180	955	1360	550	43	2.5-25 9-90	25-250 120-1200
125A	5 B	400	1400	2000	32	450	220	1025	1600	580	55	4-40 15-150	40-400 200-2000
150A	6 B	400	1800	2200	50	500	240	1150	2100	560	75	6-60 20-200	60-600 300-3000

STRUCTURAL DRAWING



FLOW RANGE & DIMENSIONS

Connector size		MGE-4						MGE-5					Flow Range	
		L (mm)	W (mm)	H (mm)	Pressure Loss (mmAq)		W (kg)	L (mm)	H (mm)	Pressure Loss (mmAq)		W (kg)	Water (m³/h)	Air (Nm³/h)
					Water	Air	Metal			Water	Air	Metal		
15A	1/2 B	250	80	515	850	280	8	150	450	1100	1200	12	0.02-0.2 0.2-2	0.6-6 3-30
20A	3/4 B	250	80	540	910	400	8	180	450	1200	1480	12	0.08-0.8 0.35-3.5	1.5-15 5-50
25A	1 B	300	100	630	600	270	10	200	460	1000	2100	15	0.1-1 0.6-6	2-20 9-90
32A	1-1/4 B	300	100	660	550	300	11	250	490	1300	1860	17	0.1-1 1-10	2-20 15-150
40A	1-1/2 B	350	100	755	500	290	12	250	510	1500	1550	18	0.2-2 1.5-15	4-40 20-200
50A	2 B	350	120	790	800	340	16	280	540	1150	1900	24	0.5-5 2.5-25	6-60 40-400
65A	2-1/2 B	400	150	905	650	260	23	350	572	1000	2210	35	0.8-8 4-40	10-100 60-600
80A	3 B	400	150	962	1270	400	26	400	650	1600	2100	40	1.2-12 5-50	12-120 80-800
100A	4 B	450	180	1095	1360	550	44	500	650	1800	2400	60	2.5-25 9-90	25-250 120-1200
125A	5 B	450	220	1205	1600	710	57	550	692	2000	2600	90	4-40 15-150	40-400 200-2000
150A	6 B	500	240	1370	2100	680	77	600	720	2450	3150	110	6-60 20-200	60-600 300-3000