

**Overview**

MaxiFlo™ vortex flowmeter, MVX series, is new-generation vortex flowmeter with enhancement in convenience and versatility.

- Compact in design ensures convenient installation and maintenance
- No moving parts ensures longer life span
- The sensor doesn't contact the medium directly ensuring stable performance and long service life
- Wide turndown ratio of 40:1
- Within specified Reynold's number ranges, meter coefficient is not affected by the change of temperature, pressure, viscosity, etc.  
 Re  $2 \times 10^4 \sim 7 \times 10^6$ : DN25 ~ DN100  
 Re  $4 \times 10^4 \sim 7 \times 10^6$ : DN50 ~ DN300
- Wide application for liquid, gas and steam
- Parameters can be set for measurements of different fluid media, such as compressibility, meter coefficient, rated value, etc.
- Self-diagnostics provides diagnostics on setup parameters, output signal, communication, CPU, etc.
- All parameters such as diagnostics code, instant flow rate, total flow, percentage of flow rate, etc. will be displayed.

**Specifications**

**Measuring Range**

Liquid: 0.4 ~ 7 m/s  
 Gas/Steam: 4 ~ 100 m/s

**Accuracy**

Liquid:  $\pm 1.0\%$ , FS  
 Gas/Steam:  $\pm 1.0\%$ , FS (< 35 m/s)  
 $\pm 1.5\%$ , FS (35 m/s ~ 80 m/s)

**Sizes** 15 ~ 300mm

**Medium Temperature** -40°C ~ +250°C (Integral Type)  
 -40°C ~ +350°C (Remote type)

**Ambient Temperature** -25°C ~ +70°C

**Max. Operating Pressure** 15, 25, 40, 64 barG, etc.

**Power Supply**

Analog Output: 18 ~ 45 VDC  
 Pulse Output: 14 ~ 30 VDC

**Enclosure** IP65, Exia IIC T6 Ga

**Output** 4-20mA, HART, Pulse (Open Collector) & RS-485

**Sensor Types** In-line sensors (flange or wafer connection) and Insertion sensors

**MAXIFLO**

**Vortex Flow Meter  
(Series MVX)**

Vortex Flow Meter



Integral Indicator with In-line Sensor



Integral Indicator with Insertion Sensor



Remote Indicator with Insertion Sensor

Liquid and Gas Flow Ranges (m3/h)		
Size	Water	Air
DN15	0.8 ~ 6	6 ~ 40
DN20	1.2 ~ 13	6 ~ 67
DN25	1.3 ~ 15	8 ~ 100
DN32	1.5 ~ 16	14 ~ 350
DN40	3 ~ 33	18 ~ 450
DN50	4 ~ 44	30 ~ 750
DN65	6 ~ 66	50 ~ 1250
DN80	13 ~ 140	70 ~ 1750
DN100	20 ~ 220	100 ~ 2500
DN125	36 ~ 400	200 ~ 5000
DN150	50 ~ 600	400 ~ 10000
DN200	100 ~ 1200	600 ~ 15000
DN250	150 ~ 1800	1000 ~ 25000
DN300	200 ~ 2400	1524 ~ 33020

**Saturated Steam Flow Ranges (Kg/h)**

Abs. Pres (bar)	2	3	4	5	6	7	8	9	10	12	14	16	18	
Temp (°C)	120.2	133.5	143.6	151.8	158.9	158.9	170.4	175.3	179.6	187.9	195.0	207.1	207.1	
Density (Kg/m3)	1.129	1.651	2.163	2.668	3.169	3.666	4.161	4.654	5.145	6.126	7.104	8.082	9.061	
DN15	Min	6	10	12	16	19	22	25	28	30	27	43	48	54
	Max.	45	66	87	106	126	147	166	186	206	245	284	323	362
DN20	Min	6	9	12	16	19	21	24	27	30	36	42	48	54
	Max.	75	110	144	178	212	245	278	311	344	410	475	541	607
DN25	Min	9	13	17	21	25	29	33	37	41	49	56	64	72
	Max.	112	165	216	266	317	366	416	465	514	612	710	808	906
DN32	Min	15	23	30	37	44	51	58	65	72	85	99	113	126
	Max.	395	577	757	933	1109	1283	1456	1628	1800	2143	2486	2828	3171
DN40	Min	20	29	38	48	57	65	74	83	92	110	127	145	163
	Max.	508	742	973	1200	1426	1649	1872	2094	2315	2756	3196	3636	4077
DN50	Min	33	49	64	80	95	109	124	139	154	183	213	242	271
	Max.	846	1238	1622	2001	2377	2749	3120	3490	3859	4594	5327	6061	6795
DN65	Min	56	82	108	133	158	183	208	232	257	306	355	404	453
	Max.	1411	2063	2703	3335	3962	4582	5201	5817	6431	7656	8879	10102	11326
DN80	Min	79	115	151	186	221	256	291	325	360	428	497	565	634
	Max.	1975	2889	3785	4669	5547	6415	7281	8144	9004	10719	12431	14143	15856
DN100	Min	112	165	216	266	317	366	416	465	514	612	710	808	906
	Max.	2822	4127	5407	6670	7925	9165	10402	11634	12863	15313	17759	20204	22652
DN125	Min	225	330	432	533	634	733	832	930	1029	1225	1420	1616	1812
	Max.	5645	8255	10815	13340	15850	18330	20804	23269	25726	30627	35519	40409	45305
DN150	Min	451	660	865	1067	1268	1466	1664	1861	2058	2450	2841	3232	3624
	Max.	11290	16510	21630	26680	31700	36661	41609	46538	51453	61255	71038	80819	90610
DN200	Min	677	990	1297	1600	1902	2199	2496	2792	3087	3675	4262	4849	5436
	Max.	16935	24765	32445	40020	47550	54992	62414	69808	77180	91883	106558	121229	135915
DN250	Min	1129	1651	2163	2668	3170	3666	4160	4653	5145	6125	7103	8081	9061
	Max.	28225	41275	54075	66700	79250	91654	104024	116347	128634	153139	177597	202049	226526
DN300	Min	1720	2516	3296	4066	4831	5587	6341	7092	7841	9335	10826	12316	13809
	Max.	37279	54516	71422	88097	104673	121057	137395	153671	169900	202266	234570	266866	299196

## Model Selection Guide

MVX-###-#-#-##-##-##-##-Options		Code
<b>Size</b>		DN size
<b>Indicator</b>	Integral	I
	Remote	R
<b>Sensor Type</b>	In-line, Flanged (JIS Flange)	F1
	In-line, Flanged (ANSI Flange)	F2
	In-line, Flanged, (DIN Flange)	F3
	In-line, Threaded (NPT, PT, etc.)	F4
	In-line, Wafer	W
	Insertion	I
<b>Power Supply</b>	24VDC	P2
	Battery	P3
<b>Options</b>	High-Temperature Version of up to $\leq 350^{\circ}\text{C}$ <i>(Normal range: <math>-40\sim 250^{\circ}\text{C}</math>)</i>	TH
	4-20mA + HART instead of RS-485	HT
	Temperature Compensation	T
	Pressure Compensation	P
	Temperature and Pressure Compensation	TP
	Explosion Proof Enclosure	EX
	Ball Valve (applicable to only Insertion Sensor only)	BV

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Seoul Korea  
[www.maxiflo.co.kr](http://www.maxiflo.co.kr)

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