



# Differential Pressure Flowmeter

# Model code MV

Table of the measurable range (massflow rate)

Static pressure (MPa <sub>a</sub> G)	Temperature (deg.C)	Measurable range (kg/h)																											
		25mm				40mm				50mm				80mm				100mm				150mm							
		Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit				
0.0	100	46	44	9	6	111	106	21	14	183	174	35	23	355	338	68	31	689	656	131	60	1202	1145	229	105	2689	2561	512	235
0.1	120	90	86	17	8	215	205	41	19	355	338	68	31	689	656	131	60	1202	1145	229	105	2689	2561	512	235	512	235	512	235
0.2	134	133	127	16	10	318	303	38	23	525	500	62	38	1017	969	121	73	1775	1691	211	127	3972	3782	473	284	473	284	473	284
0.3	144	176	167	21	11	420	400	50	26	693	660	82	43	1342	1278	160	83	2343	2231	279	145	5241	4992	624	325	624	325	624	325
0.4	152	203	193	19	12	484	461	46	29	799	761	76	48	1549	1475	148	92	2703	2575	257	161	6048	5760	576	361	576	361	576	361
0.5	159	227	216	22	13	541	515	51	31	892	850	85	52	1729	1647	165	101	3018	2874	287	176	6752	6431	643	393	643	393	643	393
0.6	165	248	236	24	14	592	564	56	34	976	930	93	56	1893	1802	180	108	3303	3146	315	189	7390	7038	704	423	704	423	704	423
0.7	170	268	255	25	15	639	608	61	36	1054	1004	100	60	2043	1946	195	115	3565	3396	340	202	7977	7597	760	451	760	451	760	451
0.8	175	286	272	27	16	682	649	65	38	1125	1072	107	63	2181	2077	208	122	3806	3625	363	213	8516	8110	811	477	811	477	811	477
0.9	180	303	288	29	17	722	688	69	40	1192	1135	114	66	2311	2201	220	128	4033	3841	384	224	9023	8593	859	501	859	501	859	501
1.0	184	319	304	30	18	761	724	72	42	1255	1196	120	69	2433	2317	232	134	4246	4044	404	235	9500	9048	905	525	905	525	905	525
1.1	188	334	318	32	18	797	759	76	44	1315	1253	125	72	2549	2428	243	140	4449	4237	424	245	9954	9480	948	547	948	547	948	547
1.2	192	349	332	33	19	832	792	79	46	1373	1307	131	75	2660	2534	253	146	4643	4422	442	254	10388	9894	989	569	989	569	989	569
1.3	195	363	345	35	20	865	824	82	47	1428	1360	136	78	2767	2635	264	151	4830	4600	460	263	10805	10291	1029	589	1029	589	1029	589
1.4	198	376	358	36	20	897	855	85	49	1481	1410	141	81	2870	2733	273	156	5009	4771	477	272	11206	10673	1067	609	1067	609	1067	609
1.5	201	389	370	37	21	928	884	88	50	1532	1459	146	83	2969	2828	283	161	5182	4935	494	281	11594	11042	1104	629	1104	629	1104	629
1.6	204	402	382	38	22	958	913	91	52	1581	1506	151	86	3065	2919	292	166	5350	5095	509	289	11969	11399	1140	648	1140	648	1140	648
1.7	207	414	394	39	22	987	940	94	53	1629	1552	155	88	3158	3008	301	171	5512	5250	525	298	12332	11745	1174	666	1174	666	1174	666
1.8	210	426	405	41	23	1016	967	97	55	1676	1596	160	90	3249	3094	309	175	5670	5400	540	306	12685	12081	1208	684	1208	684	1208	684
1.9	212	437	416	42	24	1043	993	99	56	1722	1640	164	93	3336	3178	318	180	5823	5546	555	313	13028	12408	1241	701	1241	701	1241	701
2.0	215	448	427	43	24	1070	1019	102	57	1766	1682	168	95	3422	3259	326	184	5973	5688	569	321	13363	12726	1273	718	1273	718	1273	718

Table of the measurable range (volumetric flow rate)

Static pressure (MPa <sub>a</sub> G)	Temperature (deg.C)	Measurable range (m <sup>3</sup> /h)																											
		25mm				40mm				50mm				80mm				100mm				150mm							
		Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit	Range of guaranteed accuracy			Lower limit				
0.0	100	77	74	15	9	185	176	35	22	306	291	58	37	594	566	113	72	1038	988	198	126	2324	2214	443	283	443	283	443	283
0.1	120	79	76	15	7	190	181	36	16	314	299	60	27	609	580	116	53	1063	1013	203	92	2381	2268	454	206	454	206	454	206
0.2	134	81	77	10	6	193	184	23	14	318	303	38	22	617	588	74	44	1078	1027	128	76	2415	2300	287	171	287	171	287	171
0.3	144	81	77	10	5	194	185	23	12	321	306	38	20	622	593	74	38	1087	1035	129	67	2433	2317	290	150	290	150	290	150
0.4	152	76	73	7	4	182	174	17	11	301	287	29	18	584	556	56	34	1019	971	97	60	2282	2173	217	135	217	135	217	135
0.5	159	72	68	7	4	171	163	16	10	283	269	27	16	549	523	52	32	958	913	91	55	2145	2043	204	124	204	124	204	124
0.6	165	68	65	6	4	162	154	15	9	267	255	25	15	519	494	49	29	906	863	86	51	2028	1931	193	115	193	115	193	115
0.7	170	64	61	6	4	154	147	15	9	254	242	24	14	493	469	47	28	860	819	82	48	1926	1834	183	108	183	108	183	108
0.8	175	62	59	6	3	147	140	14	8	243	231	23	13	471	448	45	26	822	783	78	46	1839	1752	175	102	175	102	175	102
0.9	180	59	56	6	3	141	134	13	8	233	221	22	13	451	429	43	25	787	750	75	43	1763	1679	168	97	168	97	168	97
1.0	184	57	54	5	3	135	129	13	7	223	213	21	12	433	413	41	24	757	721	72	41	1694	1613	161	93	161	93	161	93
1.1	188	55	52	5	3	130	124	12	7	215	205	21	12	418	398	40	23	729	695	69	40	1633	1555	156	89	156	89	156	89
1.2	192	53	50	5	3	126	120	12	7	208	198	20	11	404	384	38	22	705	671	67	38	1578	1503	150	86	150	86	150	86
1.3	195	51	49	5	3	122	116	12	7	202	192	19	11	391	372	37	21	682	650	65	37	1528	1455	145	83	145	83	145	83
1.4	198	50	47	5	3	118	113	11	6	196	186	19	11	379	361	36	20	662	631	63	36	1482	1411	141	80	141	80	141	80
1.5	201	48	46	5	3	115	110	11	6	190	181	18	10	368	351	35	20	643	613	61	35	1440	1372	137	78	137	78	137	78
1.6	204	47	45	4	2	112	107	11	6	185	176	18	10	359	342	34	19	626	596	60	34	1402	1335	133	75	133	75	133	75
1.7	207	46	44	4	2	109	104	10	6	180	172	17	10	350	333	33	19	610	581	58	33	1366	1301	130	73	130	73	130	73
1.8	210	45	42	4	2	107	101	10	6	176	167	17	9	341	325	32	18	596	567	57	32	1333	1270	127	71	127	71	127	71
1.9	212	44	41	4	2	104	99	10	6	172	164	16	9	333	317	32	18	582	554	55	31	1302	1240	124	70	124	70	124	70
2.0	215	43	41	4	2	102	97	10	5	168	160	16	9	326	310	31	17	569	542	54	30	1274	1213	121	68	121	68	121	68

Note 9 Ambient temperature For the integral style, refer to the following table of ambient temperature and steam pressure.

Ambient temp. (deg.C)/Steam pressure (MPa)
190 °C/1.15 MPa
200 °C/1.45 MPa
215 °C/2.00 MPa

Note 10 Leadtime for bolts and nuts For the JIS20K connection of the size from 80mm to 150mm and ANSI150 and ANSI300 connection type, the additional two week lead time is required.