

PLASTIC FLOW METER MBC SERIES

Technical Data

Service: gas & liquid

Wetted parts material: Body- Polycarbonate (PC);

O-Ring- NBR (standard); Float- SS316, POM Plastic

Connection material: Stainless steel

Connection size: 1/8"NPT female; and female 1/4"NPT, R1/4", G1/4" available

Pressure limit: 150 psig (10bar) @100°F (38°C)

Temperature limit: -10°C~+60°C

Accuracy: ±3% full scale

Mounting: vertical position

Weight: 75 g

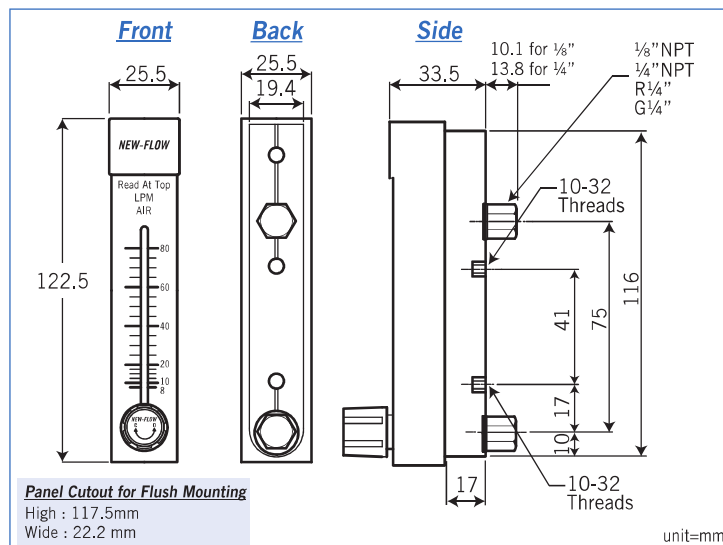
Patent No.

Taiwan: M398628

China: 1850114

U.S: 7980127B1

Dimensions



Range Table & Ordering Information

A. Fluid Type: Water (Needle valve on bottom, or without needle valve)

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
1	10~100	SS316	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-S-W-100-C	+N2: 1/4"NPT(F) +R2: R1/4"(F) +G2: G1/4"(F)
2	25~250	POM	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-P-W-250-C	
3	30~300	POM	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-P-W-300-C	
4	50~500	POM	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-P-W-500-C	
5	100~1000	SS316	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-S-W-1000-C	
6	0.6~6	SS316	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-S-W-6-LH	
7	0.8~8	POM	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-P-W-8-LH	
8	1.5~15	POM	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-P-W-15-LH	
9	2~20	POM	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-P-W-20-LH	
10	2.5~25	POM	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-P-W-25-LH	
11	3~30	POM	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-P-W-30-LH	
12	5~50	SS316	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-S-W-50-LH	
13	8~80	SS316	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-S-W-80-LH	
14	15~150	SS316	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-S-W-150-LH	
15	20~200	SS316	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-S-W-200-LH	
16	25~250	SS316	LPH, Litter per Hour	(V)with/(N)without	MBC-V(N)-S-W-250-LH	

Ordering code example:

MBC-V-S-W-100-C+N2

- MBC = Model
- V = With Needle Valve
- S = Float SS316
- W = Water
- 100 = 10~100
- C = cc/min
- N2 = 1/4"NPT(F)

B. Fluid Type: Water (Needle valve on bottom, or without needle valve)

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
1	0.2~2	POM	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-P-W-2-GH	+N2: 1/4"NPT(F) +R2: R1/4"(F) +G2: G1/4"(F)
2	0.5~5	POM	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-P-W-5-GH	
3	0.8~8	POM	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-P-W-8-GH	
4	1.3~13	SS316	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-S-W-13-GH	
5	2~20	SS316	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-S-W-20-GH	
6	4~40	SS316	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-S-W-40-GH	
7	5~50	SS316	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-S-W-50-GH	
8	6.5~65	SS316	GPH, Gallon (us) per Hour	(V)with/(N)without	MBC-V(N)-S-W-65-GH	

C. Fluid Type: Air (Needle valve on bottom, or without needle valve)

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
1	50~500	POM	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-P-A-500-C	+N2: ¼"NPT(F) +R2: R¼"(F) +G2: G¼"(F) Ordering code example: MBC-V-P-A-500-C+N2 → MBC = Model → V = With Needle Valve → P = Float POM → A = Air → 500 = 50~500 → C = cc/min → N2 = ¼"NPT(F)
2	70~700	POM	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-P-A-700-C	
3	0.1~1	POM	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-P-A-1-LM	
4	100~1000	POM	cc/min, cc per Minute	(V)with/(N)without	MBC-V(N)-P-A-1000-C	
5	0.2~2	POM	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-P-A-2-LM	
6	0.25~2.5	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-2.5-LM	
7	0.4~4	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-4-LM	
8	0.5~5	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-5-LM	
9	1~10	POM	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-P-A-10-LM	
10	1.5~15	POM	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-P-A-15-LM	
11	2.5~25	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-25-LM	
12	2.5~25	POM	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-P-A-25-LM	
13	3~30	POM	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-P-A-30-LM	
14	4~40	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-40-LM	
15	5~50	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-50-LM	
16	7~70	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-70-LM	
17	8~80	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-80-LM	
18	10~100	SS316	LPM, Normal Litter per Minute	(V)with/(N)without	MBC-V(N)-S-A-100-LM	

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
19	12~120	POM	LPH, Normal Litter per Hour	(V)with/(N)without	MBC-V(N)-P-A-120-LH	+N2: ¼"NPT(F) +R2: R¼"(F) +G2: G¼"(F)
20	25~250	SS316	LPH, Normal Litter per Hour	(V)with/(N)without	MBC-V(N)-S-A-250-LH	
21	30~300	SS316	LPH, Normal Litter per Hour	(V)with/(N)without	MBC-V(N)-S-A-300-LH	
22	60~600	POM	LPH, Normal Litter per Hour	(V)with/(N)without	MBC-V(N)-P-A-600-LH	

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
23	0.1~1	POM	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-P-A-1-MH	+N2: ¼"NPT(F) +R2: R¼"(F) +G2: G¼"(F)
24	0.15~1.5	SS316	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-S-A-1.5-MH	
25	0.2~2	POM	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-P-A-2-MH	
26	0.25~2.5	SS316	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-S-A-2.5-MH	
27	0.4~4	SS316	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-S-A-4-MH	
28	0.5~5	SS316	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-S-A-5-MH	
29	0.6~6	SS316	NM³/H, Normal Cubic Meter per Hour	(V)with/(N)without	MBC-V(N)-S-A-6-MH	

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
30	0.5~5	POM	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-P-A-5-SH	+N2: ¼"NPT(F) +R2: R¼"(F) +G2: G¼"(F)
31	1~10	SS316	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-S-A-10-SH	
32	2~20	POM	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-P-A-20-SH	
33	3~30	POM	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-P-A-30-SH	
34	5~50	SS316	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-S-A-50-SH	
35	7~70	POM	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-P-A-70-SH	
36	8~80	SS316	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-S-A-80-SH	
37	14~140	SS316	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-S-A-140-SH	
38	16~160	SS316	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-S-A-160-SH	
39	20~200	SS316	SCFH, Standard Cubic Feet per Hour	(V)with/(N)without	MBC-V(N)-S-A-200-SH	

Range Table & Ordering Information

D. Fluid Type: Air (Needle valve on top)

Item	Flow Range	Float Material	Flow Unit	Needle Valve	Ordering Code [*for 1/8"NPT(F), standard]	Other Connection Size
1	50~500	POM	cc/min, cc per Minute	(TV)with, top	MBC-TV-P-A-500-C	+N2: 1/4"NPT(F) +R2: R 1/4"(F) +G2: G 1/4"(F)
2	70~700	POM	cc/min, cc per Minute	(TV)with, top	MBC-TV-P-A-700-C	
3	0.1~1	POM	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-P-A-1-LM	
4	100~1000	POM	cc/min, cc per Minute	(TV)with, top	MBC-TV-P-A-1000-C	
5	0.2~2	POM	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-P-A-2-LM	
6	0.25~2.5	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-2.5-LM	
7	0.4~4	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-4-LM	
8	0.5~5	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-5-LM	
9	1~10	POM	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-P-A-10-LM	
10	1.5~15	POM	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-P-A-15-LM	
11	2.5~25	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-25-LM	
12	2.5~25	POM	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-P-A-25-LM	
13	3~30	POM	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-P-A-30-LM	
14	4~40	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-40-LM	
15	5~50	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-50-LM	
16	7~70	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-70-LM	
17	8~80	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-80-LM	
18	10~100	SS316	LPM, Normal Litter per Minute	(TV)with, top	MBC-TV-S-A-100-LM	

Ordering code example:
MBC-TV-P-A-500-C+N2
→ MBC = Model
→ TV = With needle valve top
→ P = Float POM
→ A = Air
→ 500 = 50~500
→ C = cc/min
→ N2 = 1/4"NPT(F)