VARIABLE AREA TYPE FLOW METER

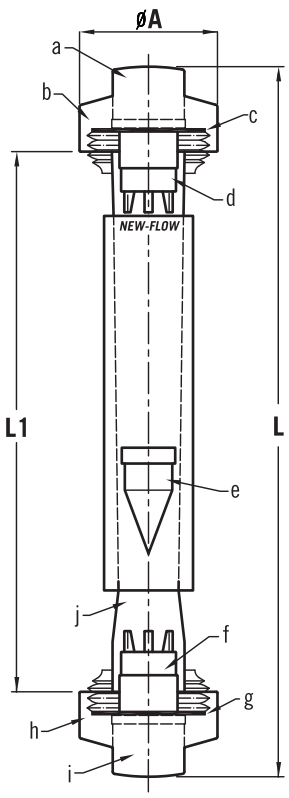
PF SERIES PLASTIC FLOWMETER



Technical Data

Service: Water, waste water, air, gases, chemical process system, industrial flow system
Measuring Range: Refer to range table
Accuracy: ±3% F.S
Scale Unit: Liquid– LPM, LPH, GPH; Gases– NLPM, NM^3/H, SCFH
Wetted Parts Material: Body– Polysulfone (PSU), Polycarbonate (P.C) available
Float– PVDF, PVC, Stainless steel available
Max. Working Pressure Limit: 1.2 MPa (12 kg/cm^2)
Max. Test Pressure: 2.0 MPa (20 kg/cm^2) (water 25°C)
Max. Working Temperature Limit: -10°C to 60°C (for PC body)
-10°C to 80°C (for polysulfone body)

Dimensions



unit=mm

Flow Body Size	A	L	L1
A ½" 15	41	233	172
B ½" 15	52	346	263
C ¾" 20	74	368	272
D 1" & 1½" 25	79	370	272
E 1½" & 2" 40	99	385	262
F 2" 50	135	415	250

Parts List Material

Item	Parts Name	Material
a	Process Connection	SS316, P.V.C, PVDF
b	Union Nut	PVC
c	O-Ring	Viton
d	Stop Bar	PVDF
e	Float	PVDF
f	Stop Bar	PVDF
g	O-Ring	Viton
h	Union Nut	P.V.C
i	Process Connection	SS316, P.V.C, PVDF
j	Flow Tube	PSU, P.C

Ordering Range Code Table

A1 Tube–1/2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	4~40	Teflon	LPH,Litter per Hour	PF-4~40-LPH-Water-T-A1
2	1~10	Teflon	GPH, Gallon (us) per Hour	PF-1~10-GPH-Water-T-A1
3	12~120	SS316	LPH,Litter per Hour	PF-12~120-LPH-Water-SS-A1
4	3~30	SS316	GPH, Gallon (us) per Hour	PF-3~30-GPH-Water-SS-A1

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	2.5~25	Teflon	NLPM, Normal Litter per Minute	PF-2.5~25-NLPM-Air-T-A1
2	5~50	Teflon	SCFH, Standard Cubic Feet per Hour	PF-5~50-SCFH-Air-T-A1
3	0.15~1.5	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-0.15~1.5-NM^3/H-Air-T-A1
4	6~60	SS316	NLPM, Normal Litter per Minute	PF-6~60-NLPM-Air-SS-A1
5	0.36~3.6	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-0.36~3.6-NM^3/H-Air-SS-A1
6	12~120	SS316	SCFH, Standard Cubic Feet per Hour	PF-12~120-SCFH-Air-SS-A1

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A2 Tube–1/2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	6~60	Teflon	LPH,Litter per Hour	PF-6~60-LPH-Water-T-A2
2	20~200	SS316	LPH,Litter per Hour	PF-20~200-LPH-Water-SS-A2
3	0.1~1	Teflon	LPM,Litter per Minute	PF-0.1~1-LPM-Water-T-A2
4	0.3~3	SS316	LPM,Litter per Minute	PF-0.3~3-LPM-Water-SS-A2
5	5~50	SS316	GPH, Gallon (us) per Hour	PF-5~50-GPH-Water-SS-A2

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	10~100	SS316	NLPM, Normal Litter per Minute	PF-10~100-NLPM-Air-SS-A2
2	0.6~6	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-0.6~6-NM^3/H-Air-SS-A2
3	20~200	SS316	SCFH, Standard Cubic Feet per Hour	PF-20~200-SCFH-Air-SS-A2

A3 Tube–1/2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	10~100	Teflon	LPH,Litter per Hour	PF-10~100-LPH-Water-T-A3
2	30~300	SS316	LPH,Litter per Hour	PF-30~300-LPH-Water-SS-A3
3	2.5~25	Teflon	GPH, Gallon (us) per Hour	PF-2.5~25-GPH-Water-T-A3
4	0.5~5	SS316	LPM,Litter per Minute	PF-0.5~5-LPM-Water-SS-A3
5	8~80	SS316	GPH, Gallon (us) per Hour	PF-8~80-GPH-Water-SS-A3

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	12~120	SS316	NLPM, Normal Litter per Minute	PF-12~120-NLPM-Air-SS-A3
2	0.8~8	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-0.8~8-NM^3/H-Air-SS-A3
3	30~300	SS316	SCFH, Standard Cubic Feet per Hour	PF-30~300-SCFH-Air-SS-A3

B1 Tube–1/2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	10~100	Teflon	LPH,Litter per Hour	PF-10~100-LPH-Water-T-B1
2	2.5~25	Teflon	GPH, Gallon (us) per Hour	PF-2.5~25-GPH-Water-T-B1
3	35~350	SS316	LPH,Litter per Hour	PF-35~350-LPH-Water-SS-B1
4	10~90	SS316	GPH, Gallon (us) per Hour	PF-10~90-GPH-Water-SS-B1
5	0.6~6	SS316	LPM, Litter per Minute	PF-0.6~6-LPM-Water-SS-B1

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	8~80	Teflon	NLPM, Normal Litter per Minute	PF-8~80-NLPM-Air-T-B1
2	0.5~5	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-0.5~5-NM^3/H-Air-T-B1
3	18~180	Teflon	SCFH, Standard Cubic Feet per Hour	PF-18~180-SCFH-Air-T-B1
4	20~200	SS316	NLPM, Normal Litter per Minute	PF-20~200-NLPM-Air-SS-B1
5	40~400	SS316	SCFH, Standard Cubic Feet per Hour	PF-40~400-SCFH-Air-SS-B1
6	1.2~12	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-1.2~12-NM^3/H-Air-SS-B1

B2 Tube–1/2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	18~180	Teflon	LPH,Litter per Hour	PF-18~180-LPH-Water-T-B2
2	0.3~3	Teflon	LPM,Litter per Minute	PF-0.3~3-LPM-Water-T-B2
3	5~50	Teflon	GPH, Gallon (us) per Hour	PF-5~50-GPH-Water-T-B2
4	60~600	SS316	LPH,Litter per Hour	PF-60~600-LPH-Water-SS-B2
5	1~10	SS316	LPM,Litter per Minute	PF-1~10-LPM-Water-SS-B2
6	16~160	SS316	GPH, Gallon (us) per Hour	PF-16~160-GPH-Water-SS-B2

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B2 Tube–1/2"
Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	13~130	Teflon	NLPM, Normal Litter per Minute	PF-13~130-NLPM-Air-T-B2
2	30~280	Teflon	SCFH, Standard Cubic Feet per Hour	PF-30~280-SCFH-Air-T-B2
3	0.8~8	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-0.8~8-NM^3/H-Air-T-B2
4	50~300	SS316	NLPM, Normal Litter per Minute	PF-50~300-NLPM-Air-SS-B2
5	100~600	SS316	SCFH, Standard Cubic Feet per Hour	PF-100~600-SCFH-Air-SS-B2
6	3~18	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-3~18-NM^3/H-Air-SS-B2

B3 Tube–1/2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	30~300	Teflon	LPH,Litter per Hour	PF-30~300-LPH-Water-T-B3
2	0.5~5	Teflon	LPM, Litter per Minute	PF-0.5~5-LPM-Water-T-B3
3	8~80	Teflon	GPH, Gallon (us) per Hour	PF-8~80-GPH-Water-T-B3
4	100~1000	SS316	LPH, Litter per Hour	PF-100~1000-LPH-Water-SS-B3
5	1.5~15	SS316	LPM, Litter per Minute	PF-1.5~15-LPM-Water-SS-B3
6	30~250	SS316	GPH, Gallon (us) per Hour	PF-30~250-GPH-Water-SS-B3
7	0.4~4	SS316	GPM, Gallon (us) per Minute	PF-0.4~4-GPM-Water-SS-B3
8	0.1~1	SS316	M^3/H, Cubic Meter per Hour	PF-0.1~1-M^3/H-Water-SS-B3

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	20~200	Teflon	NLPM, Normal Litter per Minute	PF-20~200-NLPM-Air-T-B3
2	40~400	Teflon	SCFH, Standard Cubic Feet per Hour	PF-40~400-SCFH-Air-T-B3
3	1.2~12	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-1.2~12-NM^3/H-Air-T-B3
4	40~400	SS316	NLPM, Normal Litter per Minute	PF-40~400-NLPM-Air-SS-B3
5	100~1000	SS316	SCFH, Standard Cubic Feet per Hour	PF-100~1000-SCFH-Air-SS-B3
6	3~25	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-3~25-NM^3/H-Air-SS-B3

C1 Tube–3/4"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	2.5~25	SS316	LPM, Litter per Minute	PF-2.5~25-LPM-Water-SS-C1
2	0.16~1.6	SS316	M^3/H, Cubic Meter per Hour	PF-0.16~1.6-M^3/H-Water-SS-C1
3	160~1600	SS316	LPH,Litter per Hour	PF-160~1600-LPH-Water-SS-C1
4	40~400	SS316	GPH, Gallon (us) per Hour	PF-40~400-GPH-Water-SS-C1
5	0.6~6	SS316	GPM, Gallon (us) per Minute	PF-0.6~6-GPM-Water-SS-C1
6	60~600	Teflon	LPH,Litter per Hour	PF-60~600-LPH-Water-T-C1
7	1~10	Teflon	LPM, Litter per Minute	PF-1~10-LPM-Water-T-C1
8	16~160	Teflon	GPH, Gallon (us) per Hour	PF-16~160-GPH-Water-T-C1
9	0.25~2.5	Teflon	GPM, Gallon (us) per Minute	PF-0.25~2.5-GPM-Water-T-C1

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	70~700	SS316	NLPM, Normal Litter per Minute	PF-70~700-NLPM-Air-SS-C1
2	150~1500	SS316	SCFH, Standard Cubic Feet per Hour	PF-150~1500-SCFH-Air-SS-C1
3	4~40	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-4~40-NM^3/H-Air-SS-C1
4	2.5~25	SS316	SCFM, Standard Cubic Feet per Minute	PF-2.5~25-SCFM-Air-SS-C1
5	40~400	Teflon	NLPM, Normal Litter per Minute	PF-40~400-NLPM-Air-T-C1
6	80~800	Teflon	SCFH, Standard Cubic Feet per Hour	PF-80~800-SCFH-Air-T-C1
7	2.4~24	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-2.4~24-NM^3/H-Air-T-C1
8	1.4~14	Teflon	SCFM, Standard Cubic Feet per Minute	PF-1.4~14-SCFM-Air-T-C1

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C2 Tube–3/4"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	4~40	SS316	LPM, Litter per Minute	PF-4~40-LPM-Water-SS-C2
2	0.25~2.5	SS316	M^3/H, Cubic Meter per Hour	PF-0.25~2.5-M^3/H-Water-SS-C2
3	60~600	SS316	GPH, Gallon (us) per Hour	PF-60~600-GPH-Water-SS-C2
4	1~10	SS316	GPM, Gallon (us) per Minute	PF-1~10-GPM-Water-SS-C2
5	80~800	Teflon	LPH,Litter per Hour	PF-80~800-LPH-Water-T-C2
6	1.4~14	Teflon	LPM, Litter per Minute	PF-1.4~14-LPM-Water-T-C2
7	20~200	Teflon	GPH, Gallon (us) per Hour	PF-20~200-GPH-Water-T-C2
8	0.3~3	Teflon	GPM, Gallon (us) per Minute	PF-0.3~3-GPM-Water-T-C2

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	100~1000	SS316	NLPM, Normal Litter per Minute	PF-100~1000-NLPM-Air-SS-C2
2	6~60	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-6~60-NM^3/H-Air-SS-C2
3	4~40	SS316	SCFM, Standard Cubic Feet per Minute	PF-4~40-SCFM-Air-SS-C2
4	60~500	Teflon	NLPM, Normal Litter per Minute	PF-60~500-NLPM-Air-T-C2
5	3~30	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-3~30-NM^3/H-Air-T-C2
6	2~18	Teflon	SCFM, Standard Cubic Feet per Minute	PF-2~18-SCFM-Air-T-C2

D1 Tube–1" & 1½"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	1.5~15	SS316	GPM, Gallon (us) per Minute	PF-1.5~15-GPM-Water-SS-D1
2	6~60	SS316	LPM, Litter per Minute	PF-6~60-LPM-Water-SS-D1
3	0.35~3.5	SS316	M^3/H, Cubic Meter per Hour	PF-0.35~3.5-M^3/H-Water-SS-D1
4	0.6~6	Teflon	GPM, Gallon (us) per Minute	PF-0.6~6-GPM-Water-T-D1
5	2.5~25	Teflon	LPM, Litter per Minute	PF-2.5~25-LPM-Water-T-D1
6	0.15~1.5	Teflon	M^3/H, Cubic Meter per Hour	PF-0.15~1.5-M^3/H-Water-T-D1

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	200~1800	SS316	NLPM, Normal Litter per Minute	PF-200~1800-NLPM-Air-SS-D1
2	6~60	SS316	SCFM, Standard Cubic Feet per Minute	PF-6~60-SCFM-Air-SS-D1
3	10~100	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-10~100-NM^3/H-Air-SS-D1
4	100~1000	Teflon	NLPM, Normal Litter per Minute	PF-100~1000-NLPM-Air-T-D1
5	3.5~35	Teflon	SCFM, Standard Cubic Feet per Minute	PF-3.5~35-SCFM-Air-T-D1
6	6~60	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-6~60-NM^3/H-Air-T-D1

D2 Tube–1" & 1½"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	2~20	SS316	GPM, Gallon (us) per Minute	PF-2~20-GPM-Water-SS-D2
2	8~80	SS316	LPM, Litter per Minute	PF-8~80-LPM-Water-SS-D2
3	0.5~5	SS316	M^3/H, Cubic Meter per Hour	PF-0.5~5-M^3/H-Water-SS-D2
4	1~10	Teflon	GPM, Gallon (us) per Minute	PF-1~10-GPM-Water-T-D2
5	3.5~35	Teflon	LPM, Litter per Minute	PF-3.5~35-LPM-Water-T-D2
6	0.2~2.2	Teflon	M^3/H, Cubic Meter per Hour	PF-0.2~2.2-M^3/H-Water-T-D2

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	250~2500	SS316	NLPM, Normal Litter per Minute	PF-250~2500-NLPM-Air-SS-D2
2	10~80	SS316	SCFM, Standard Cubic Feet per Minute	PF-10~80-SCFM-Air-SS-D2
3	15~150	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-15~150-NM^3/H-Air-SS-D2
4	140~1400	Teflon	NLPM, Normal Litter per Minute	PF-140~1400-NLPM-Air-T-D2
5	5~50	Teflon	SCFM, Standard Cubic Feet per Minute	PF-5~50-SCFM-Air-T-D2
6	8~80	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-8~80-NM^3/H-Air-T-D2

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E1 Tube–1½" & 2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	3.5~35	SS316	GPM, Gallon (us) per Minute	PF-3.5~35-GPM-Water-SS-E1
2	14~140	SS316	LPM, Litter per Minute	PF-14~140-LPM-Water-SS-E1
3	0.8~8	SS316	M^3/H, Cubic Meter per Hour	PF-0.8~8-M^3/H-Water-SS-E1
4	2~16	Teflon	GPM, Gallon (us) per Minute	PF-2~16-GPM-Water-T-E1
5	8~60	Teflon	LPM, Litter per Minute	PF-8~60-LPM-Water-T-E1
6	0.5~3.5	Teflon	M^3/H, Cubic Meter per Hour	PF-0.5~3.5-M^3/H-Water-T-E1

Fluid type: Air

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	20~150	SS316	SCFM, Standard Cubic Feet per Minute	PF-20~150-SCFM-Air-SS-E1
2	30~270	SS316	NM^3/H, Normal Cubic Meter per Hour	PF-30~270-NM^3/H-Air-SS-E1
3	15~80	Teflon	SCFM, Standard Cubic Feet per Minute	PF-15~80-SCFM-Air-T-E1
4	20~150	Teflon	NM^3/H, Normal Cubic Meter per Hour	PF-20~150-NM^3/H-Air-T-E1

F1 Tube–2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
1	1500~15000	SS316	LPH, Litter per Hour	PF-1500~15000-LPH-Water-SS-F11
2	25~250	SS316	LPM, Litter per Minute	PF-25~250-LPM-Water-SS-F11
3	1.5~15	SS316	M^3/H, Cubic Meter per Hour	PF-1.5~15-M^3/H-Water-SS-F11
4	6.5~65	SS316	GPM, Gallon (us) per Minute	PF-6.5~65-GPM-Water-SS-F11

F2 Tube–2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
5	2000~20000	SS316	LPH, Litter per Hour	PF-2000~20000-LPH-Water-SS-F21
6	30~300	SS316	LPM, Litter per Minute	PF-30~300-LPM-Water-SS-F21
7	2~20	SS316	M^3/H, Cubic Meter per Hour	PF-2~20-M^3/H-Water-SS-F21
8	8~80	SS316	GPM, Gallon (us) per Minute	PF-8~80-GPM-Water-SS-F21

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
9	5000~30000	SS316	LPH, Litter per Hour	PF-5000~30000-LPH-Water-SS-F22
10	100~500	SS316	LPM, Litter per Minute	PF-100~500-LPM-Water-SS-F22
11	5~30	SS316	M^3/H, Cubic Meter per Hour	PF-5~30-M^3/H-Water-SS-F22
12	30~130	SS316	GPM, Gallon (us) per Minute	PF-30~130-GPM-Water-SS-F22

F3 Tube–2"
Fluid type: Water

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
13	2500~25000	SS316	LPH, Litter per Hour	PF-2500~25000-LPH-Water-SS-F31
14	40~400	SS316	LPM, Litter per Minute	PF-40~400-LPM-Water-SS-F31
15	2.5~25	SS316	M^3/H, Cubic Meter per Hour	PF-2.5~25-M^3/H-Water-SS-F31
16	10~100	SS316	GPM, Gallon (us) per Minute	PF-10~100-GPM-Water-SS-F31

Item	Flow Range	Float Material	Flow Unit	Ordering Range Code
17	7000~35000	SS316	LPH, Litter per Hour	PF-7000~35000-LPH-Water-SS-F32
18	100~600	SS316	LPM, Litter per Minute	PF-100~600-LPM-Water-SS-F32
19	7~35	SS316	M^3/H, Cubic Meter per Hour	PF-7~35-M^3/H-Water-SS-F32
20	30~160	SS316	GPM, Gallon (us) per Minute	PF-30~160-GPM-Water-SS-F32

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Ordering Information

PF	Code	Range		
		Please refer to the *Ordering Range Code Table* and fill in the requested directly.		
		Code	**Flow Tube Material**	
		PSU	Polysulphone	PC Polycarbonate
		Code	**Process Connection Material**	
			(A) PVC (B) PVDF (C) SS316	
		Code	**Process Connection Size**	
			(A) 1/2" (B) 3/4" (C) 1" (D)1½" (E) 2" (F) 3" (G) Option	
		Code	**Process Connection Ratig**	
			Thread	(A) PT (B) NPT (C) PF
			Flange	(D) 10K (E) 20K (F) ANSI 150# (G) ANSI 300# (H) PN10 (I) PN16 (J) PN25
PF				**Complete Ordering Code**

Ordering information Sample:

Ordering Range Code Table	Flow Tube Material	Process Connection Material	Process Connection Size	Process Connection Rating
PF-4~40-LPH-Water-T-A1	PSU	C	A	B

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