# PLASTIC TUBE FLOW METER BPF300

# Technical Data

BPF300 for high flows of gas and liquid Case material: SS316; Aluminum alloy available Body wetted parts material: in PVC, CPVC, PVDF indication via magnetic coupling (no sealed) Scales calibrated: in I/h, m³/h, kg/h, %, etc. Flow rates for:

- Water: 4 l/h up to 15,000 l/h (SS316 float) 4 I/h up to 8,000 I/h (PVDF float) (special ranges on request)

- Air: 0.1 Nm<sup>3</sup>/h up to 450 Nm<sup>3</sup>/h Connection types: Thread NPT or BSP Connection size: ½"~2½"NPT or BSP Mounting length: 250mm, standard or others

**Protection class: IP65** 

Accuracy: ±2% F.S (±1.6% F.S option)

Max. working pressure: 20 kg/cm<sup>2</sup> (PVDF); 15 kg/cm<sup>2</sup> (PP & PVC) Max. working temperature: PVC-0~40°C; PP-0~60°C;

PVDF--30°C~100°C

Adjustable micro switch: 1 adjustable alarm contact

Load: 5A/250VAC/125VAC/30VDC Temperature:  $-25^{\circ}\text{C} \sim +100^{\circ}\text{C}$  (AMB) Hysteresis:  $\pm 10\%$  of full scale

Electric transmitter: Analog output available 4~20mA (2 wire)

No alarm switch available Power supply: 24VDC

Temperature: -25°C~+50°C (AMB)

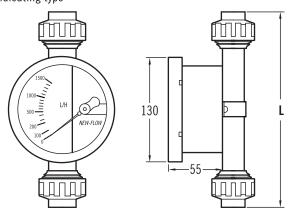
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# **Dimensions**

Case Material: SS316

Case Type: Round Bayonet Ring Type

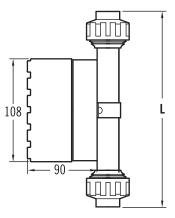
Only for indicating type



Case Material: Aluminum alloy and SS316 available

Case Type: Round Screw Tight type

For MS and GT type

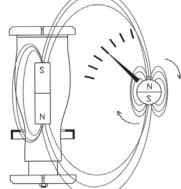


L: Standard 250mm

Other please refer to the Standard Sceles

unit=mm

# **Principle**



# Standard Scales

# A. Float Material: SS316

Tube	L/H 20°C Water	NM <sup>3</sup> /H Air 20°C 1.013bar	PmmWater	Thread Connection	Thread Type L (mm)	Accuracy (NOTE 1.)
BPFS3001	4 ~ 30	0.1 ~ 1	≤750	1/2"	221	±5% F.S
BPFS3002	4 ~ 40	0.13 ~ 1.3	≤750	1/2"	221	±5% F.S
BPFS3003	5.5 ~ 55	0.17 ~ 1.7	≤750	1/2"	221	±5% F.S
BPFS3004	8 ~ 80	0.2 ~ 2	≤750	1/2"	221	±2% F.S
BPFS3005	16 ~ 160	0.5 ~ 5	≤750	1/2"	221	±2% F.S
BPFS3006	18 ~ 180	0.6 ~ 6	≤750	1/2"	221	±2% F.S
BPFS3007	30 ~ 300	1 ~ 10	≤750	1/2"	221	±2% F.S
BPFS3008	50 ~ 500	1.5 ~ 15	≤750	1/2"	221	±2% F.S
BPFS3009	60 ~ 600	1.8 ~ 18	≤750	1/2"	221	±2% F.S
BPFS3010	70 ~ 700	2 ~ 20	≤750	1/2"	221	±2% F.S
BPFS3011	100 ~ 1000	3 ~ 30	≤750	1/2"	235	±2% F.S
BPFS3012	120 ~ 1200	4 ~ 40	≤750	1/2"	235	±2% F.S
BPFS3013	160 ~ 1600	5 ~ 50	≤700	3/4"	250	±2% F.S
BPFS3014	200 ~ 2000	6 ~ 60	≤700	3/4"	250	±2% F.S
BPFS3015	240 ~ 2400	7 ~ 70	≤700	3/4"	250	±2% F.S
BPFS3016	280 ~ 2800	8.5 ~ 85	≤700	3/4"	250	±2% F.S
BPFS3017	320 ~ 3200	9 ~ 90	≤700	3/4"	250	±2% F.S
BPFS3018	350 ~ 3500	10 ~ 100	≤700	3/4"	250	±2% F.S
BPFS3019	500 ~ 5000	14 ~ 140	≤650	1" & 1½"	270	±2% F.S
BPFS3020	600 ~ 6000	15 ~ 150	≤650	1" & 1½"	270	±2% F.S
BPFS3021	700 ~ 7000	20 ~ 200	≤650	1" & 1½"	270	±2% F.S
BPFS3022	800 ~ 8000	24 ~ 240	≤650	1" & 1½"	270	±2% F.S
BPFS3023	1000 ~ 10000	30 ~ 300	≤650	2"	306	±2% F.S
BPFS3024	1200 ~ 12000	35 ~350	≤650	2"	306	±2% F.S
BPFS3025	1400 ~ 14000	40 ~ 400	≤650	2"	306	±2% F.S
BPFS3026	1500 ~ 15000	45 ~ 450	≤1000	2"	306	±2% F.S

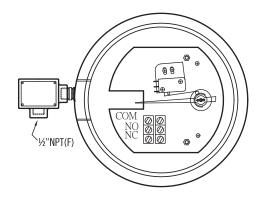
- 1.Accuracy±5% F.S: BPFS3001~BPFS3003 Accuracy±2% F.S: BPFS3004~BPFS3026 and option  $\pm 1.6\%$  F.S on request.
- 2.Performace Technical Data are effective with date of issue and are subject to change without piror notice.

B. Float Material:PVDF							
Tube	L/H 20°C Water	NM <sup>3</sup> /H Air 20°C 1.013bar	PmmWater	Thread Connection	Thread Type L (mm)	Accuracy (NOTE 1.)	
BPFP3001	4 ~ 40	0.1 ~ 1	≤750	1/2"	221	±5% F.S	
BPFP3002	5.5 ~ 55	0.17 ~ 1.7	≤750	1/2"	221	±5% F.S	
BPFP3003	8 ~ 80	0.2 ~ 2	≤750	1/2"	221	±5% F.S	
BPFP3004	16 ~ 160	0.5 ~ 5	≤750	1/2"	221	±2% F.S	
BPFP3005	28 ~ 280	0.9 ~ 9	≤750	1/2"	221	±2% F.S	
BPFP3006	35 ~ 350	1.1 ~ 11	≤750	1/2"	235	±2% F.S	
BPFP3007	40 ~ 400	1.3 ~ 13	≤750	1/2"	235	±2% F.S	
BPFP3008	50 ~ 500	5 ~ 50	≤750	1/2"	235	±2% F.S	
BPFP3009	70 ~ 700	6 ~ 60	≤700	3/4"	250	±2% F.S	
BPFP3010	90 ~ 900	7 ~ 70	≤700	3/4"	250	±2% F.S	
BPFP3011	100 ~ 1000	8.5 ~ 85	≤700	3/4"	250	±2% F.S	
BPFP3012	120 ~ 1200	9 ~ 90	≤700	3/4"	250	±2% F.S	
BPFP3013	160 ~ 1600	10 ~ 100	≤700	3/4"	250	±2% F.S	
BPFP3014	200 ~ 2000	14 ~ 140	≤700	3/4"	250	±2% F.S	
BPFP3015	250 ~ 2500	15 ~ 150	≤650	3/4"	250	±2% F.S	
BPFP3016	300 ~ 3000	20 ~ 200	≤650	3/4"	250	±2% F.S	
BPFP3017	350 ~ 3500	24 ~ 240	≤650	3/4"	270	±2% F.S	
BPFP3018	450 ~ 4500	30 ~ 300	≤650	1"&1½"	270	±2% F.S	
BPFP3019	450 ~ 4500	35 ~ 350	≤650	1"&1½"	270	±2% F.S	
BPFP3020	500 ~ 5000	40 ~ 400	≤650	1"&1½"	270	±2% F.S	
BPFP3021	650 ~ 6500	45 ~ 450	≤650	1"&1½" "	270	±2% F.S	
BPFP3022	700 ~ 7000		≤650	2"	306	±2% F.S	
BPFP3023	800 ~ 8000		≤650	2"	306	±2% F.S	

# BPF300

# Alarm / Analog output

# **BPF300-MS (Micro Switch)**

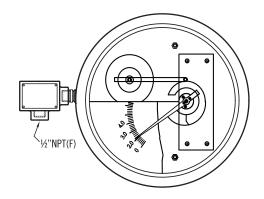


Adjustable Micro Switch, Series BPF300-MS 1 Adjustable alarm contact

Load: 5A/250VAC/125VAC/30VDC
Temperature: -25°C ~ +100°C (AMB)
Hysteresis: ±10% of full scale

Conduit connection: ½"NPT female; others on request

# **BPF300-GT (Analog Output)**



Electric Transmitter, Series BPF300-GT Analog output available: 4~20mA (2 wire)

No Alarm Switch Available

**Temperature:**  $-25^{\circ}\text{C} \sim +100^{\circ}\text{C}$  (AMB)

Power Supply: 24Vdc

Conduit connection: 1/2"NPT female; others on request

# **Ordering Information**

BF	F300	Code	Type					Cod	e (	Conne	ction siz	ze	
		G	Indicati	ng only					1	1/2" B	2" BSP (Female)		
		MS	Indicati	ing + Swi	ng + Switch					1/2" NPT (Female)			
		GT	Indicati	ng + 4~	20mA (no	alarm sv	vitch available)	6B	3	3/4" BSP (Female)			
			Code	Switch	Switch					3/4" NPT (Female)			
			0	Without	t alarm sv	vitch		108	3 1	1" BSP (Female)			
			M1	One micro switch				101	<b>N</b> 1	1" NPT (Female)			
				Code Body & wetted parts				128	3 1	1½" BS	P (Femal	le)	
			A PVC, standa					121	<b>V</b> 1	1½" NP	T (Femal	le)	
				В РР				208	3 2	2" BSP (Female)			
				С	PVDF			201	<b>V</b> 2	2" NPT	(Female)	)	
				D option   Code Protection Class					ss				
					Code	Float m	naterial			ΙP	IP65		
					А	SS316					Code	Fluid	
					В	SS316L					G	Gas	
					С	PVDF					L	Liquid	
					D	option						Code	Range
						Code	Connection rating					S	Standard range
						0	Thread connection						Please directly fill out the
													flow range in the order code.
	<b>\</b>	<b>\</b>	<b>\</b>	<b>\</b>	$\downarrow$	$\downarrow$		+		<b>\</b>		<b>V</b>	
BF	F300						4	-	T				Complete ordering code

## NOTE:

- 1. Custom-made flow range and flange size upon request.
- 2. Please fill in the ordering information and service condition, and fax this sheet along with your inquiry to 886-7-8225588.

Special instruction, if any:	

# **Service Condition:**

Fluid name:
Sp. Gr. (density):
Viscosity:
Press.:
Temp.:
Full scale: