

## PLASTIC TUBE FLOW METER

AI.BPF300



CE

## 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 l/h, m<sup>3</sup>/h, kg/h, %, etc.

**Flow rates for:** — Water: 4 l/h up to 15,000 l/h (SS316 float)

4 l/h up to 10,000 l/h (PVDF float)

(special ranges on request)

— Air: 0.1 Nm<sup>3</sup>/h up to 450 Nm<sup>3</sup>/h

**Connection size:** Thread ½"~2½"NPT or BSP available;

Flange type available

**Mounting length:** 250mm, standard or others

**Protection class:** IP66

**Accuracy:** ±5% F.S for tube BPFS(P)3001~BPFS(P)3003;

±2% F.S for tube BPFS(P)3004~BPFS(P)3026; option ±1.6% on request

**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: -30~100°C

**Adjustable micro switch:** 1 adjustable alarm contact

**Load:** 5A/125VAC, 5A/250VAC, 2A/30VDC

**Hysteresis:** ±10% F.S (Dead Band)

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

No alarm switch available

Power supply: 24VDC

Temperature: -25°C~+50°C (AMB)

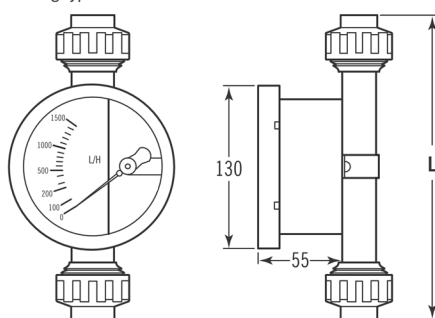
## INFORMATIONS

### Dimensions

**Case Material:** SS316

**Case Type:** Round Bayonet Ring Type

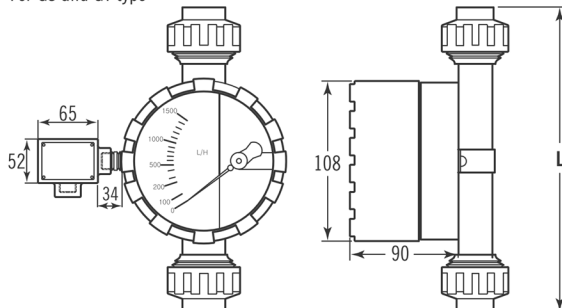
Only for indicating type



**Case Material:** Aluminum alloy and SS316 available

**Case Type:** Round Screw Tight type

For GS and GT type

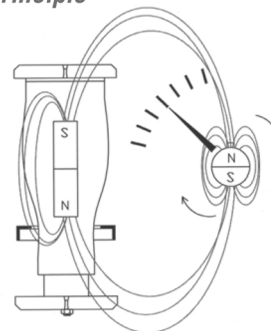


L: Standard 250mm

Other please refer to the *Standard Scales*

unit=mm

### Principle



# STANDARD SCALES

## A. Float Material: SS316

| Tube     | L/H 20°C Water | NM <sup>3</sup> /H Air 0°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            |

### NOTE.

1.Accuracy±5% F.S: BPFS3001~BPFS3003  
Accuracy±2% F.S: BPFS3004~BPFS3026  
and option ±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

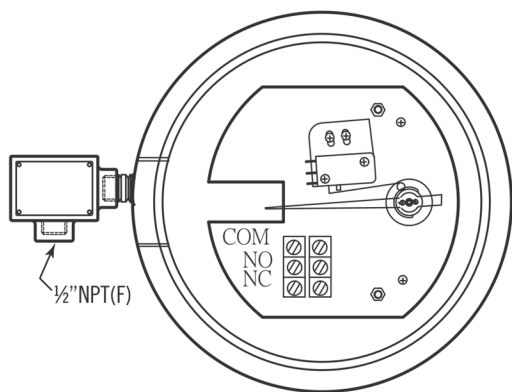
| Tube     | L/H 20°C Water | NM <sup>3</sup> /H Air 0°C 1.013bar | PmmWater | Thread Connection | Thread Type L (mm) | Accuracy (NOTE 1.) |
|----------|----------------|-------------------------------------|----------|-------------------|--------------------|--------------------|
| BPFP3001 | 4 ~ 40         | 0.13 ~ 1.3                          | ≤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                | ±2% F.S            |
| BPFP3004 | 16 ~ 160       | 0.5 ~ 5                             | ≤750     | 1/2"              | 221                | ±2% F.S            |
| BPFP3005 | 28 ~ 280       | 0.9 ~ 9                             | ≤750     | 1/2"              | 235                | ±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       | 1.5 ~ 15                            | ≤750     | 3/4"              | 250                | ±2% F.S            |
| BPFP3009 | 70 ~ 700       | 2 ~ 20                              | ≤700     | 3/4"              | 250                | ±2% F.S            |
| BPFP3010 | 90 ~ 900       | 2.5 ~ 25                            | ≤700     | 3/4"              | 250                | ±2% F.S            |
| BPFP3011 | 100 ~ 1000     | 3 ~ 30                              | ≤700     | 3/4"              | 250                | ±2% F.S            |
| BPFP3012 | 120 ~ 1200     | 4 ~ 40                              | ≤700     | 3/4"              | 250                | ±2% F.S            |
| BPFP3013 | 160 ~ 1600     | 5 ~ 50                              | ≤700     | 3/4"              | 250                | ±2% F.S            |
| BPFP3014 | 200 ~ 2000     | 6 ~ 60                              | ≤700     | 3/4"              | 250                | ±2% F.S            |
| BPFP3015 | 250 ~ 2500     | 7 ~ 70                              | ≤650     | 3/4"              | 250                | ±2% F.S            |
| BPFP3016 | 300 ~ 3000     | 9 ~ 90                              | ≤650     | 1" & 1½"          | 270                | ±2% F.S            |
| BPFP3017 | 350 ~ 3500     | 10 ~ 100                            | ≤650     | 1" & 1½"          | 270                | ±2% F.S            |
| BPFP3018 | 450 ~ 4500     | 12 ~ 120                            | ≤650     | 1" & 1½"          | 270                | ±2% F.S            |
| BPFP3019 | 450 ~ 4500     | 13 ~ 130                            | ≤650     | 1" & 1½"          | 270                | ±2% F.S            |
| BPFP3020 | 500 ~ 5000     | 14 ~ 140                            | ≤650     | 1" & 1½"          | 270                | ±2% F.S            |
| BPFP3021 | 650 ~ 6500     | 18 ~ 180                            | ≤650     | 2"                | 306                | ±2% F.S            |
| BPFP3022 | 700 ~ 7000     | -----                               | ≤650     | 2"                | 306                | ±2% F.S            |
| BPFP3023 | 800 ~ 8000     | -----                               | ≤650     | 2"                | 306                | ±2% F.S            |
| BPFP3024 | 900 ~ 9000     | -----                               | ≤650     | 2½"               | 350                | ±2% F.S            |
| BPFP3025 | 1000 ~ 10000   | -----                               | ≤650     | 2½"               | 350                | ±2% F.S            |

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Le caratteristiche dichiarate possono cambiare senza alcun preavviso

## ALARM/ANALOG OUTPUT

### BPF300- GS (Micro Switch)



### Adjustable Micro Switch, Series BPF300-GS

### 1 Adjustable alarm contact

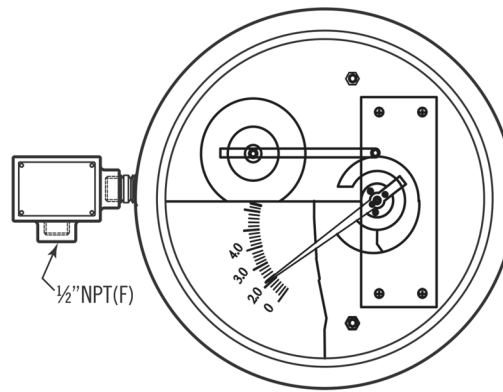
**Load:** 5A/125VAC, 5A/250VAC, 2A/30VDC

**Temperature:** -25°C ~ +50°C (AMB)

**Hysteresis:**  $\pm 10\%$  F.S (Dead Band)

**Conduit connection:** 1/2" 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°C ~ +50°C (AMB)

**Power Supply:** 24Vdc

**Conduit connection:** ½" NPT female; others on request

## ORDERING INFORMATION

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