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Introduction

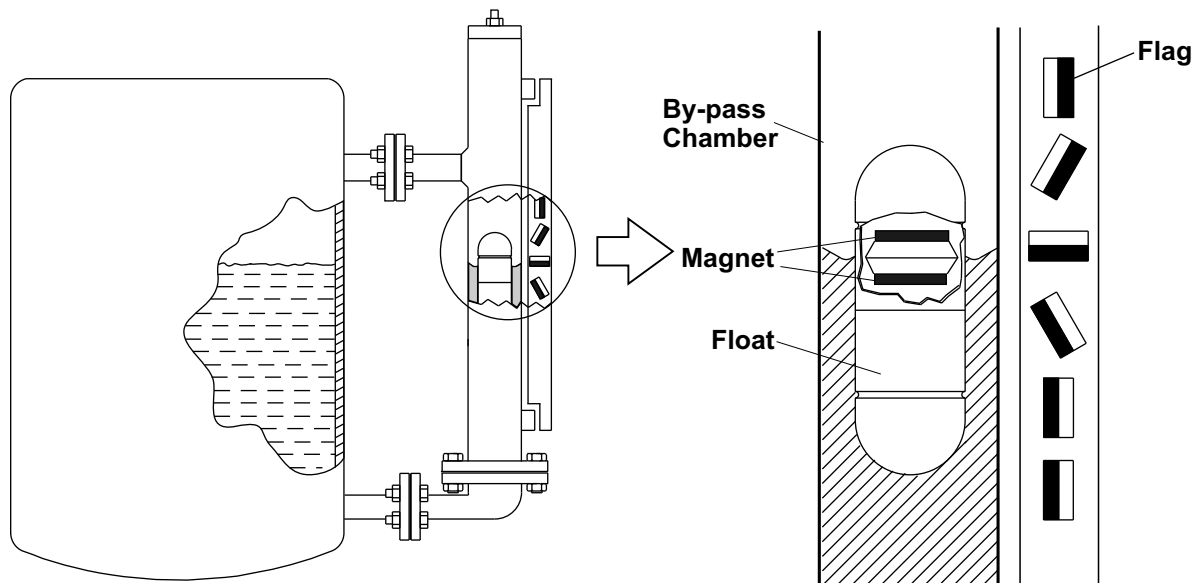
The By-Pass Level Indicator is installed outside of a vessel or tank. The liquid level in the tank can easily be obtained by reading the flag color. The magnetic switches and level transducer are option for electrical signal output and level transmitting for remote control.

Principle

By bypassing a liquid to the outside chamber, taking advantage of a float inside the chamber with a magnet inserted as well as in the color flags, one can reveal the level of the liquid in a tank as the flags turn and change color by magnetic attraction to the float.

Applications And Features

1. Applicable in environments with high temp., high pressure, strong acid, strong alkali and hazardous locations. The structure is simple but durable and reliable. It is also with various optional devices for upgrade in use.
2. A Level Transducer or Magnetic Switches can be installed and adjusted with no need to stop any process.
3. It is not operated by electricity and with not be affected by power failure.
4. The flag display is scaled by a piece of color, division every 10cm, one can easily read the levels height.
5. Multiple applications for textile dyeing, sewage water processing, power generating, hot coal oil boiler and petrochemical industries.



PRODUCT WITH PATENT RECOMMENDATION

1.) Magnetic Switch

The plastic miniature magnetic switch is anti-corrosive and with IP67 rating. It's the smallest magnetic switch in the world.

The mini switch is with ease of setting up and real time adjustment.

2.) Innovative Bottom End and the Connecting Flange

The lower center duct is at the bottom end of the chamber, when the liquid in the tank drains, there will be no remainder in the chamber unit.

This is suitable for productions require frequent materials modification or not mixture allowed during the process.

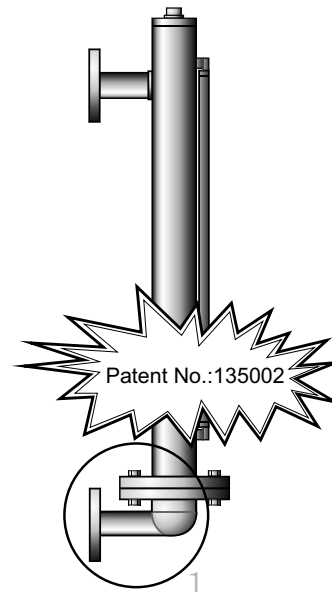
3.) Removable Duct and Connecting Flange

The flanges setting is close to the two ends of chamber, "C-C" distance is maximized in length.

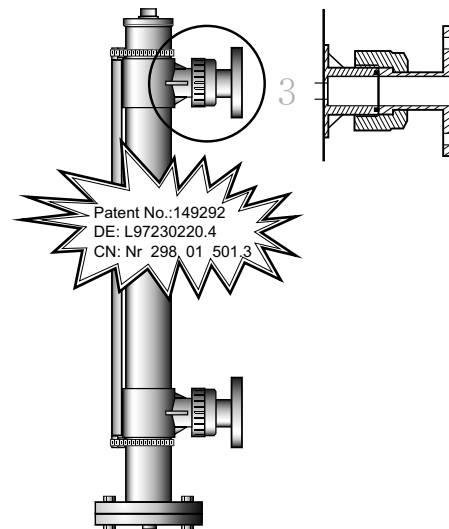
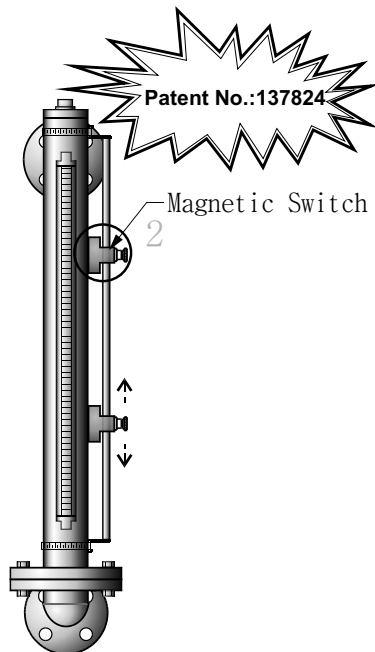
It is strengthened in the structure by large phase weld.

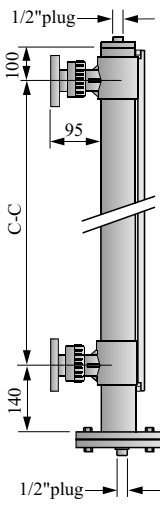
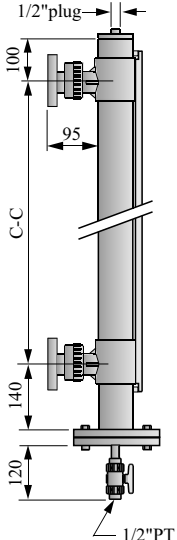
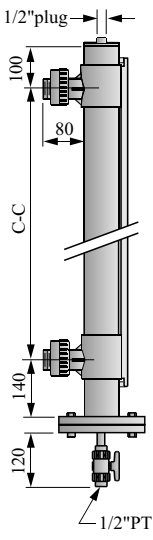
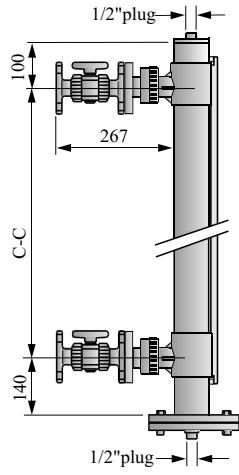
While in installation, it is available to adjust the flange to fit the mounting holes, with ease of mounting.

TYPE:BP- -B1L



Innovative Bottom End and the Connecting Flange

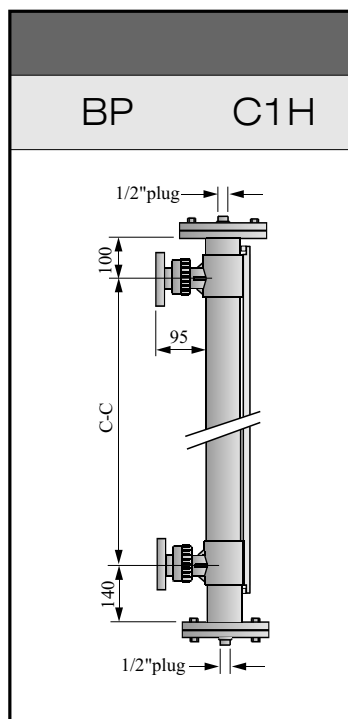


Plastic Standard Type							
BP B1H		BP B1K		BP B2K		BP B7H	
							

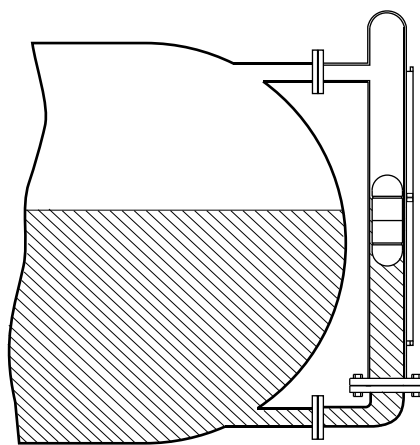
Specifications:

TYPE Description	BP	B1H	BP	B1K	BP	B2K	BP	B7H
Top End	Flat top with 1/2"PT plug							
Bottom End	Dual flange with 1/2"PT plug		Dual flange with 1/2" drain valve				Dual flange with 1/2"PT plug	
Connecting	3/4" x10kg/cm ² (Flange)				3/4" or 1"PT (Screw)		3/4" x10kg/cm ² (Ball Valve)	
C-C Distance	Min. 150mm; Max. 3800mm							
Operation Pressure	5kg/cm ²							
Operation Temp.	PP: 80 C, PVDF: 120 C							
Chamber	PP: 60.5 x 3.8t, PVDF: 63 x 3.2t							
Float Type	BPB-2500/2510 (see page 8)							
Material	PP/PVDF							
Flag Indicator	BPB-0700/0720 (see page 10)							
Ruler	BPA-2130/2140 (see page 13)							

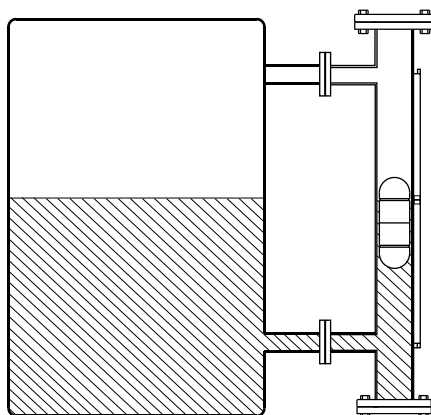
BY-PASS LEVEL INDICATOR TYPICAL INSTALLATION



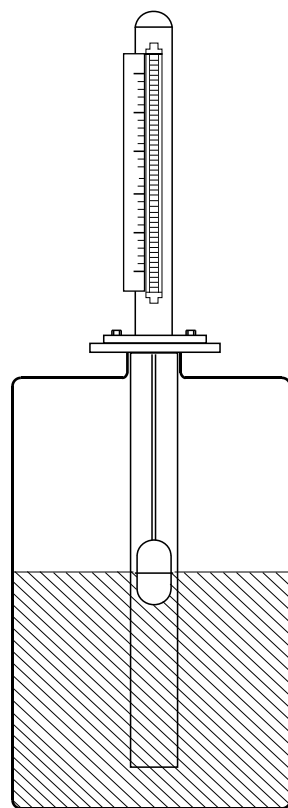
BP	C1H
Dual flange with 1/2"PT plug	
Dual flange with 1/2"PT plug	
3/4" x10kg/cm ² (Flange)	
Min. 150mm; Max. 3800mm	
5kg/cm ²	
PP: 80 C, PVDF: 120 C	
PP: 60.5 x 3.8t, PVDF: 63 x 3.2t	
BPB-2500/2510 (see page 8)	
PP/PVDF	
BPB-0700/0720 (see page 10)	
BPA-2130/2140 (see page 13)	



STYLE A1L (ANGEL PIPE)



STYLE CIH (SIDE FLANGE)



STYLE A5M (TANK TOP)

Metal Standard Type			
BPA A1H	BPA A5M	BPA B1H	BPA B1K

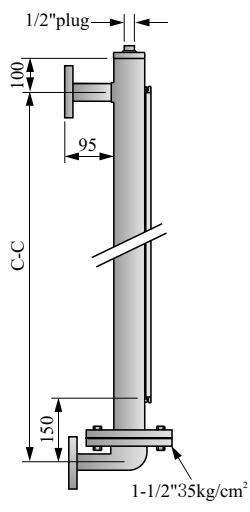
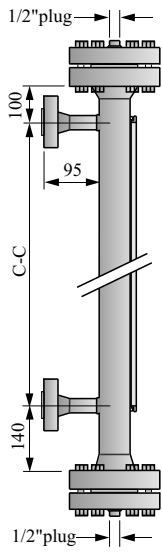
Specifications:

Description \ TYPE	BPA A1H	BPA A5M	BPA B1H	BPA B1K
Top End	Cap		Flat top with 1/2"PT plug	
Bottom End	Dual flange with 1/2"PT plug	Dual flange with 3"shield pipe	Dual flange with 1/2"PT plug	Dual flange with 1/2" drain valve
Bottom Flange	1-1/2" x 5kg/cm ²	3" x 5kg/cm ²	1-1/2" x 5kg/cm ²	
Connecting	3/4" x10kg/cm ² (Flange)	2-1/2" (Hole)	3/4" x10kg/cm ² (Flange)	
C-C Distance Flag Display Length(L)	Min. 150mm; Max. 5800mm	Min. 150mm; Max. 2000mm	Min. 150mm; Max. 5800mm	
Operation Pressure	25kg/cm ² (Max. 50kg/cm ²)			20kg/cm ²
Operation Temp.	SUS304: 140 C, 200 C, 400 C SUS316: 140 C, 200 C, 400 C			SUS304: 140 C, 200 C, 350 C SUS316: 140 C, 200 C, 350 C
Chamber	60.5 x 2.8t			
Float Type	BPB-2560 (see page 9)			
Material	SUS304/SUS316			
Flag Indicator	BPB-0700/0720 Max. 200 C, BPB-0710/0730 Max. 400 C (see page 10)			
Ruler	BPA-2110/2120 (see page 13)			

Metal Standard Type			
BPA B2K	BPA B7H	BPA C1H	BPA C8H

Specifications:

TYPE Description	BPA	B2K	BPA	B7H	BPA	C1H	BPA	C8H
Top End	Flat top with 1/2"PT plug				Dual flange with 1/2"PT plug			
Bottom End	Dual flange with 1/2" drain valve		Dual flange with 1/2"PT plug					
Bottom Flange	1-1/2" x 5kg/cm ²						2-1/2" x 5kg/cm ²	
Connecting	3/4"PT or 1"PT (Screw)		3/4" x10kg/cm ² (Flange)				1-1/4"x10kg/cm ² (Flange)	
C-C Distance	Min. 150mm; Max. 5800mm							
Operation Pressure	20kg/cm ²		10kg/cm ²		25kg/cm ² (Max. 50kg/cm ²)			
Operation Temp.	SUS304: 140 C, 200 C, 350 C SUS316: 140 C, 200 C, 350 C				SUS304: 140 C, 200 C, 400 C SUS316: 140 C, 200 C, 400 C		SUS304: 140 C, 200 C, 350 C SUS316: 140 C, 200 C, 350 C	
Chamber	60.5 x 2.8t						Jacket 76 x 3.0t 1/2"PT plug	
Float Type	BPB-2560 (see page 9)							
Material	SUS304/SUS316							
Flag Indicator	BPB-0700/0720 Max. 200 C, BPB-0710/0730 Max. 400 C (see page 10)							
Ruler	BPA-2110/2120 (see page 13)							

Metal For Dyeing Type		Metal High Pressure Type	
BPC	B1L	BP-	C1H
			

Specifications:

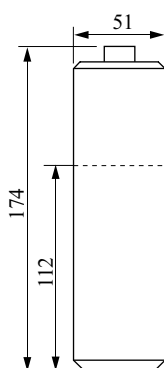
Description \ TYPE	BPC B1L	BP- C1H
Top End	Flat top with 1/2"PT plug	Dual flange with 1/2"PT plug
Bottom End	Dual flange with angle pipe	Dual flange with 1/2"PT plug
Connecting	3/4" x 10kg/cm ² (Flange)	3/4" x 600Lb (Flange)
C-C Distance	Min. 400mm; Max. 5800mm	Min. 150mm; Max. 5800mm
Operation Pressure	25kg/cm ²	100kg/cm ²
Operation Temp.	SUS304: 140 C, 200 C SUS316: 140 C, 200 C	SUS304: 140 C SUS316: 140 C
Chamber	60.5 x 2.8t	65 x 3.5t
Float Type	BPB-2580 (see page 9)	BPB-2600 (see page 9)
Material	SUS304/SUS316	
Flag Indicator	BPB-0700/0720 Max. 200 C	BPB-0710/0720 Max. 200 C (see page 10)
Ruler	BPA-2110 /2120 (see page 13)	

PLASTIC FLOAT SPECIFICATIONS

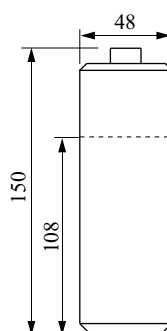
Specifications:

Spec. Type	Operation Temp.	Max. Pressure	Dimension	S.G.	Float length	Material	Weight
BPB-2500	120 C	5 kg/cm ²	51x174	0.75	112 mm	PVDF	200 g
BPB-2510	80 C	5 kg/cm ²	48x150	0.7	108 mm	PP	188 g

*Specified S.G. are available made to order.



TYPE: BPB-2500 (PVDF)

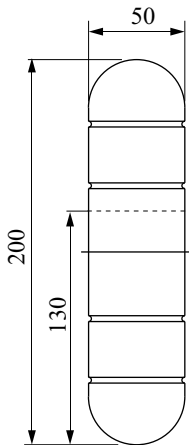


TYPE: BPB-2510 (PP)

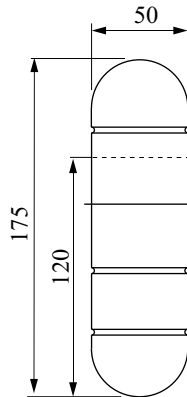
METAL FLOAT SPECIFICATIONS

Specifications:

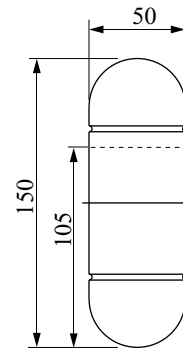
Spec. Type	Operation Temp.	Max. Pressure	Dimension	S.G.	Float length	Material	Weight
BPB-2540	400 C	30 kg/cm ²	50x200	0.7	140 mm	SUS316	227 g
BPB-2560	400 C	30 kg/cm ²	50x175	0.75	131 mm	SUS316	220 g
BPB-2580	400 C	40 kg/cm ²	50x150	0.87	130 mm	SUS316	207 g
BPB-2591	400 C	100 kg/cm ²	50x177	0.87	124 mm	SUS316	210 g
BPB-2600	400 C	40 kg/cm ²	50x140	0.6	180 mm	SUS316	276 g
BPB-2620	400 C	25 kg/cm ²	50x140	0.6	84 mm	Titanium	129 g



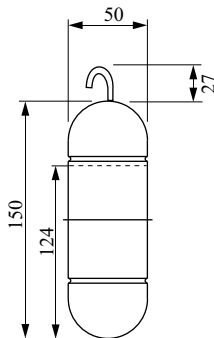
TYPE: BPB-2540



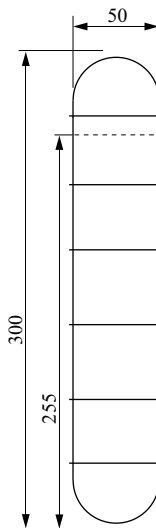
TYPE: BPB-2560



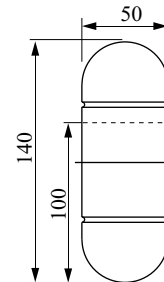
TYPE: BPB-2580



TYPE: BPB-2591



TYPE: BPB-2600



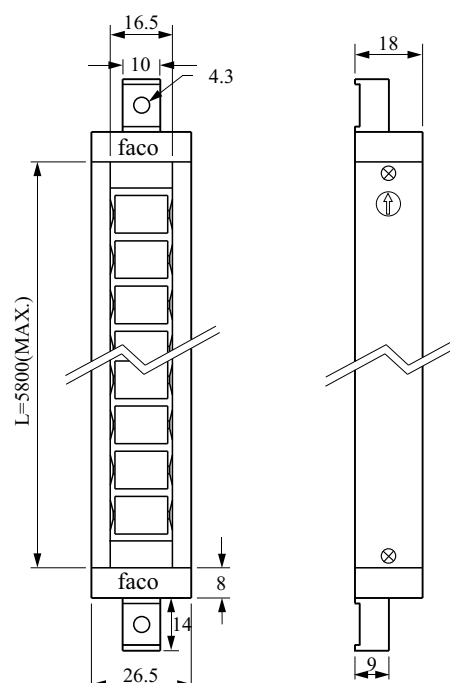
TYPE: BPB-2620

*The dotted line is the Magnet location.

FLAG DISPLAY

TYPE: BPB-0700

1. Housing material : SUS 304
2. Flag Material : Engineer plastic
3. Flag Color : Red / White; Green / White
4. Cover Material : Engineering plastics
5. Operate Temp. : -20~200 C
6. Standard Unit : 50mm

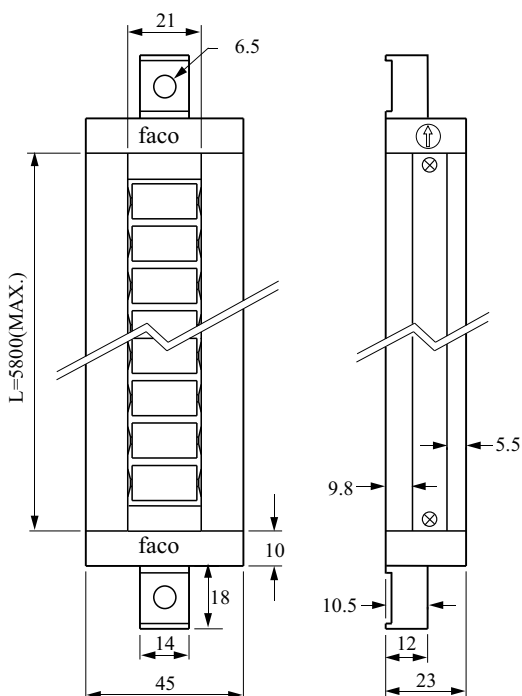


TYPE: BPB-0710

1. Housing material : SUS 304
2. Flag Material : Copper
3. Flag Color : Golden / Silver
4. Cover Material : Glass
5. Operate Temp. : -20~400 C
6. Standard Unit : 50mm

TYPE: BPB-0720

1. Housing material : Aluminum
2. Flag Material : Engineer plastic
3. Flag Color : Red / White; Green / White
4. Cover Material : Engineering plastics
5. Operate Temp. : -20~200 C
6. Standard Unit : 50mm

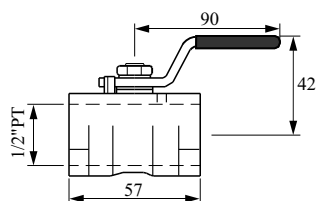


TYPE: BPB-0730

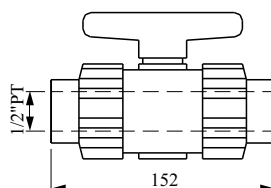
1. Housing material : Aluminum
2. Flag Material : Copper
3. Flag Color : Golden / Silver
4. Cover Material : Glass
5. Operate Temp. : -20~400 C
6. Standard Unit : 50mm

BALL VALVE

TYPE: LN-010

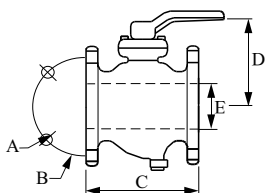


TYPE: LN-02



PART		LN-010	LN-021	LN-022
1	Body Material	SUS316	PP	PVDF
2	Working Temp.	150 C	80 C	120 C
3	Connecting	1/2"PT	1/2"PT	
4	Working Pres.	20kg/cm ²	5kg/cm ²	

TYPE: LN- 30

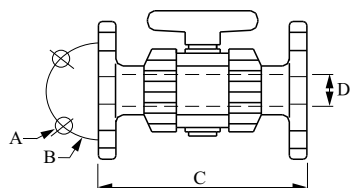


DIMENSIONS

SIZE	3/4"	1"
CODE		
A, B	ACCORDING TO JIS 10K	
C	120	130
D	90	90
E	21.8	25

PART		LN- 30
1	BODY MATERIAL	SUS304
2	WORKING TEMP.	150 C
3	WORKING PRES.	10kg/cm ²
4	CONNECTING	LN- 30 2: 3/4" JIS 10K 3: 1" JIS 10K

TYPE: LN- 4



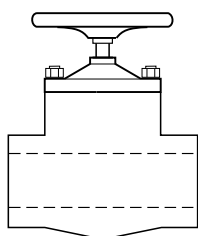
DIMENSIONS

SIZE	3/4"	1"
CODE		
A, B	ACCORDING TO JIS 10K	
C	172	187
D	18	23

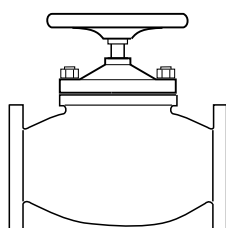
PART		LN- 41	LN- 42
1	BODY MATERIAL	PP	PVDF
2	WORKING TEMP.	80 C	120 C
3	WORKING PRES.	5kg/cm ²	
4	CONNECTING	LN- 4 2: 3/4" JIS 10K 3: 1" JIS 10K	

High Temp. Control Valve

TYPE: LN- 50



TYPE: LN- 60



PART		LN- 50	LN- 60
1	Body Material	SUS316	SUS316
2	Working Temp.	350 C	350 C
3	Working Pres.	25kg/cm ²	25kg/cm ²
4	Connecting	LN- 50 2: 3/4"PT 3: 1"PT	LN- 60 2: DN15 PN16 3: DN20 PN16

OPTIONS

As shown below the optional devices can be attached to a By-Pass Level Indicator to monitor and control level of the liquid.

A. Magnetic Switch (see page 14)

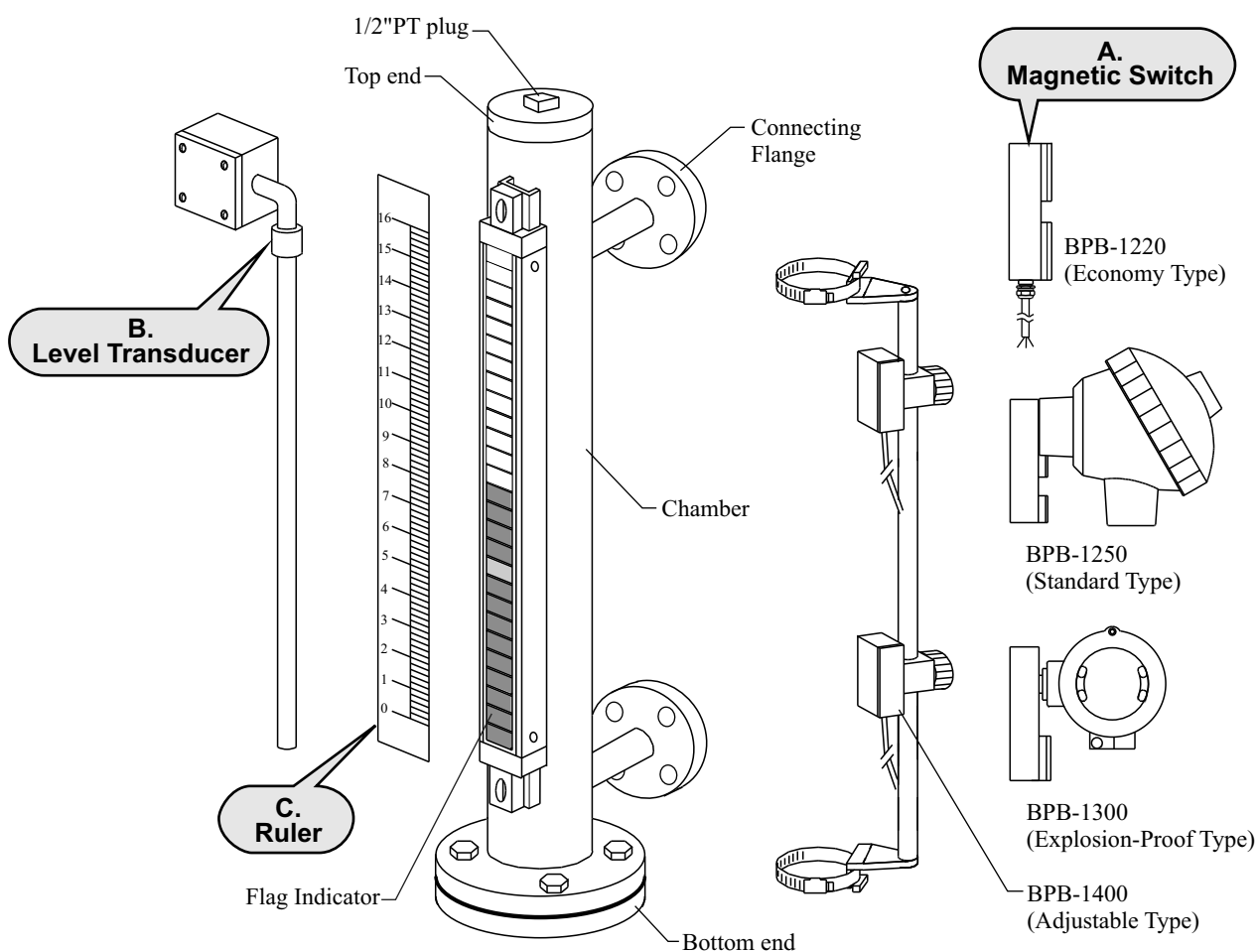
- | | |
|-------------------------|-------------------|
| 1) Economy Type | : BPB-1200 series |
| 2) Standard Type | : BPB-1250 series |
| 3) Explosion-proof Type | : BPB-1300 series |
| 4) Adjustable Type | : BPB-1400 series |

B. Level Transducer (see page 15, 16)

- | | |
|---------------------------------|------------|
| 1) 3 wires Standard Type | : BPB-3910 |
| 2) 2 wires Standard Type | : BPB-3920 |
| 3) 3 wires Explosion-proof Type | : BPB-3930 |
| 4) 2 wires Explosion-proof Type | : BPB-3940 |
| 5) 2 wires Reversible Type | : BPB-3950 |

C. Ruler (see page 13)

- | | |
|----------------------------|------------|
| 1) Stainless steel in cm | : BPA-2110 |
| 2) Stainless steel in inch | : BPA-2120 |
| 3) Plastic in cm | : BPA-2130 |
| 4) Plastic in inch | : BPA-2140 |

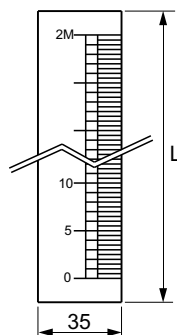


RULER

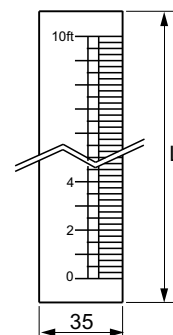
TYPE: BPA-2110 (unit: cm)

TYPE: BPA-2120 (unit: inch)

1. Dimension : 35(W)x1.5(t)xL
2. Material : SUS 304
3. Color : Black word
4. Operate Temp. : -20~400 C
5. Length : 5.8M (228")



BPA-2110

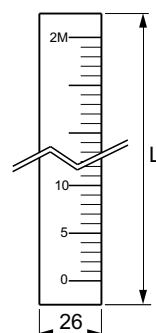


BPA-2120

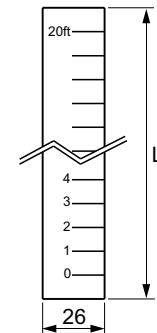
TYPE: BPA-2130 (unit: cm)

TYPE: BPA-2140 (unit: inch)

1. Dimension : 26(W)x3(t)xL
2. Material : Plastic
3. Color : Red word
4. Operate Temp. : -20~80 C
5. Length : 5.8M (228")



BPA-2130



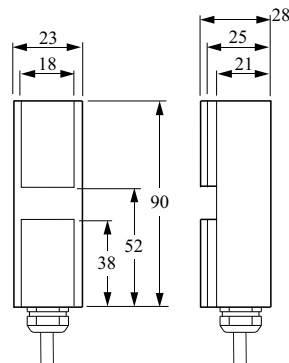
BPA-2140

* Custom-made scale is available.

MAGNETIC SWITCH

TYPE: BPB-1220 / 1230 [Economy type]

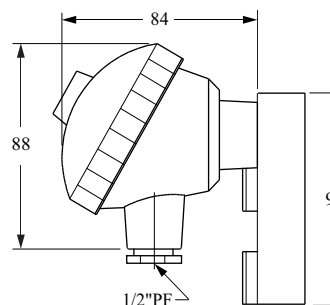
1. Contact Element : Reed Switch
2. Switch Form : BPB-1220, 1AB Hold type
BPB-1230, 1AB Normal type
3. Contact Capacity : 1A/30W / 200VDC
4. Housing Material : Aluminum
5. Operation Temp. : -20~200 C
6. Protection : IP67
7. Cable Length : 1M (Silicon Cable)



Contact Color :
Black : COM
Brown : NC
Blue : NO
Yellow/Green : GND

TYPE: BPB-1250 / 1260 [Standard type]

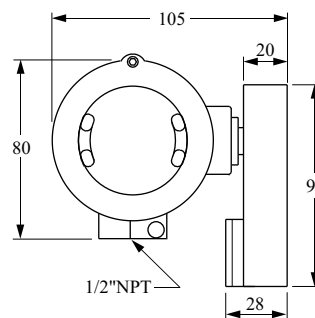
1. Contact Element : Reed switch
2. Switch Form : BPB-1250, 1AB Hold type
BPB-1260, 1AB Normal type
3. Contact Capacity : 1A / 30W / 200VDC
4. Housing Material : Aluminum
5. Operation Temp. : -20~150 C (max. 250 C)
6. Protection : IP65



Contact Color :
Red : COM,
White : NO
(BPB-1400/ 1410 / 1450)
Black : COM,
Red : NC
White : NO (BPB-1420 / 1430)

TYPE: BPB-1300 / 1310 [Explosion-Proof type]

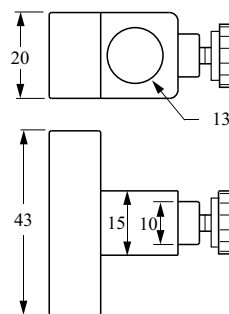
1. Contact Element : Reed switch
2. Switch Form : BPB-1300, 1AB Hold type
BPB-1310, 1AB Normal type
3. Contact Capacity : 1A / 30W / 200VDC
4. Housing Material : Aluminum
5. Operation Temp. : -20~85 C (max. 250 C)
6. Protection : EEx d IIC T6



Contact Color :
Red : COM,
White : NO
(BPB-1400/ 1410 / 1450)
Black : COM
Red : NC
White : NO (BPB-1420 / 1430)

TYPE: BPB-14 [Adjustable type]

1. Contact Element : Reed Switch
2. Switch Form : BPB-1400, 1A Holdt ype
BPB-1410, 1A Normalt ype
BPB-1420, 1AB Hold type
BPB-1430, 1AB Normal type
BPB-1450, 1A Holdt ype (LED display)
3. Contact Capacity : 1A / 30W / 200VDC
4. Housing Material : PP
5. Operation Temp. : -20~140 C
6. Protection : IP67
7. Cable Length : 2M (PVC Cable)

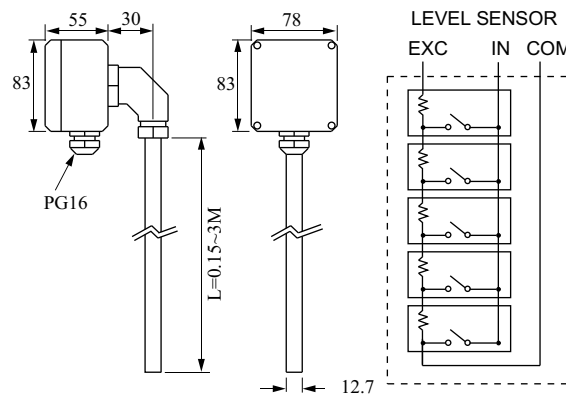


Contact Color :
Red : COM,
White : NO
(BPB-1400/ 1410 / 1450)
Black : COM
Red : NC
White : NO (BPB-1420 / 1430)

LEVEL TRANSDUCER

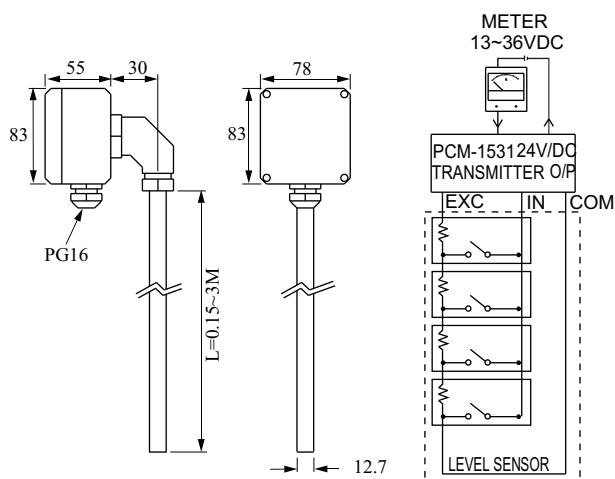
TYPE: BPB-3910

1. Housing material : PC(IP65) 75(W)x80(H)x55(D)
2. Tube : 12.7mm / 17.2 (length over 3M)
SUS 304 or SUS 316
3. Accuracy : 6.35mm
4. Output : approx. 0~1M three-wire
5. Power : 2.5~36VDC
6. Measuring Range : 0.15~3M / 3~5.8M (17.2)
7. Ambient Temp. : -10~85 C

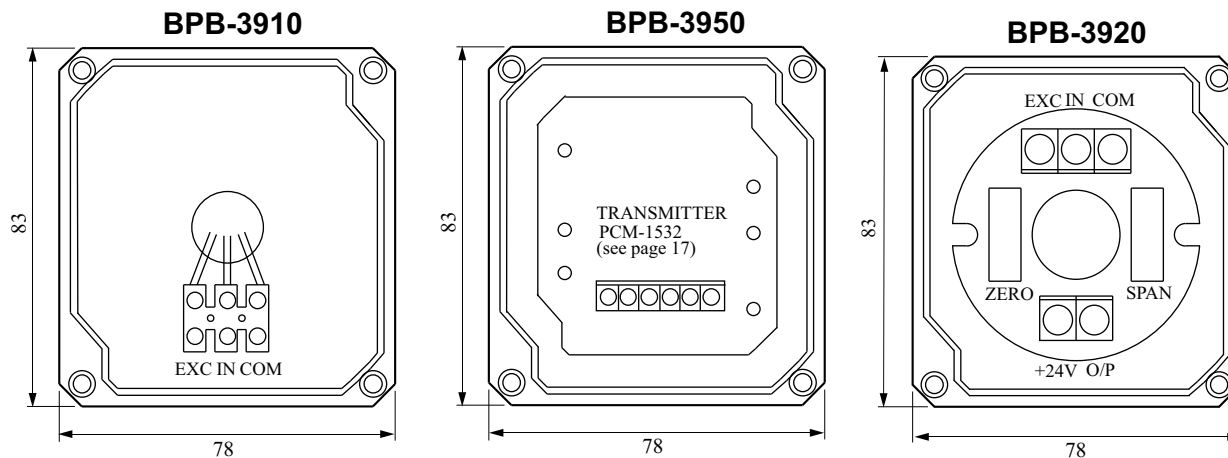


TYPE: BPB-3920 / BPB-3950

1. Housing material : PC(IP65) 75(W)x80(H)x55(D)
2. Tube : 12.7mm / 17.2 (length over 3M)
SUS 304 or SUS 316
3. Accuracy : 6.35mm
4. Output : 4~20mA two-wire
5. Power : 13~36VDC
6. Measuring Range : 0.15~3M / 3~5.8M (17.2)
7. Ambient Temp. : -10~85 C



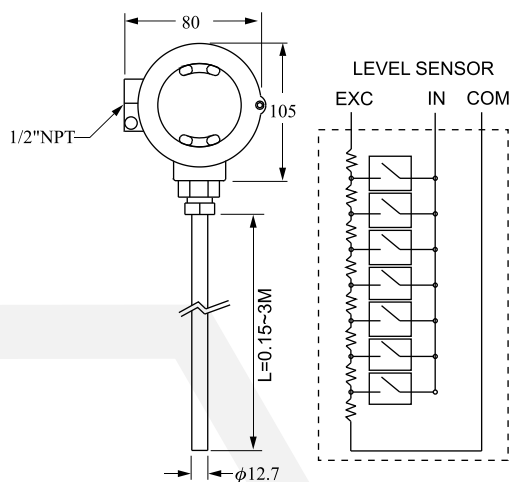
Terminal Arrangement



LEVEL TRANSDUCER

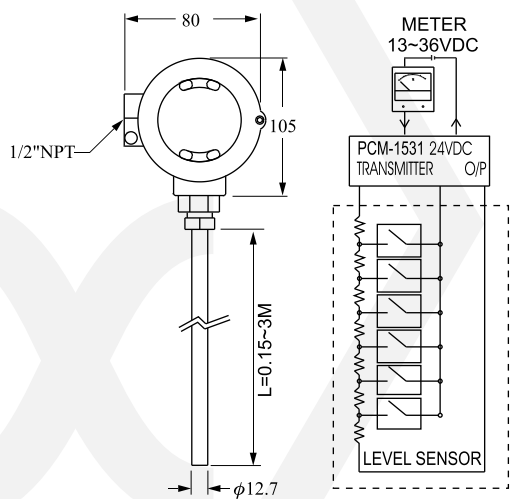
TYPE: BPB-3930

1. Housing material : Aluminum EEx d IIB T6
2. Tube : $\phi 12.7\text{mm}$ / $\phi 17.2$ (length over 3M)
SUS304 or SUS316
3. Accuracy : $\pm 6.35\text{mm}$
4. Output : approx. $0\sim 1\text{M}\Omega$ three-wire
5. Power : $2.5\sim 36\text{VDC}$
6. Measuring Range : $0.15\sim 3\text{M}$ / $3\sim 6\text{M}$ ($\phi 17.2$)
7. Ambient Temp. : $-10\sim 150^\circ\text{C}$



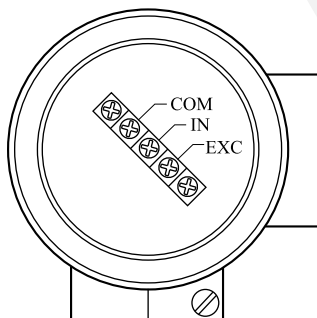
TYPE: BPB-3940

1. Housing material : Aluminum EEx d IIB T6
2. Tube : $\phi 12.7\text{mm}$ / $\phi 17.2$ (length over 3M)
SUS 304 or SUS 316
3. Accuracy : $\pm 6.35\text{mm}$
4. Output : approx. $4\sim 20\text{mA}$ two-wire
5. Power : $13\sim 36\text{VDC}$
6. Measuring Range : $0.15\sim 3\text{M}$ / $3\sim 6\text{M}$ ($\phi 17.2$)
7. Ambient Temp. : $-10\sim 85^\circ\text{C}$

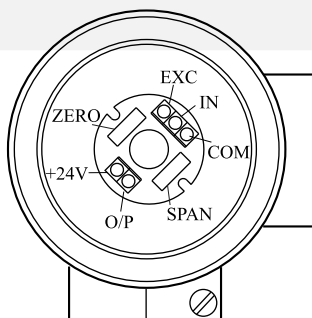


Terminal Arrangement

BPB-3930



BPB-3940

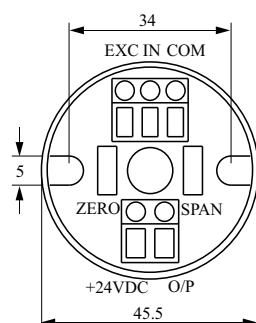


TRANSMITTER

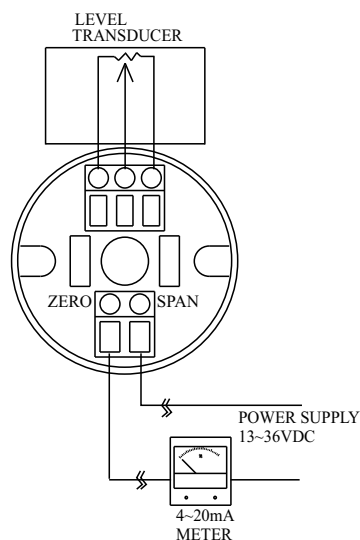
TYPE: PCM-1531

- | | | | |
|---------------------|-----------------------------|----------------------|------------------------|
| 1. Power | : 13~36VDC | 5. Output Resistance | : $(V_s - 13V) / 20mA$ |
| 2. Input | : Level sensor / three-wire | 6. Accuracy | : 0.1% |
| 3. Input Resistance | : 1K~1M | 7. Operation Temp. | : -10~80 °C |
| 4. Output Current | : 4~20mA / two-wire | 8. Protection | : Ex ia T6 |

Terminal Arrangement



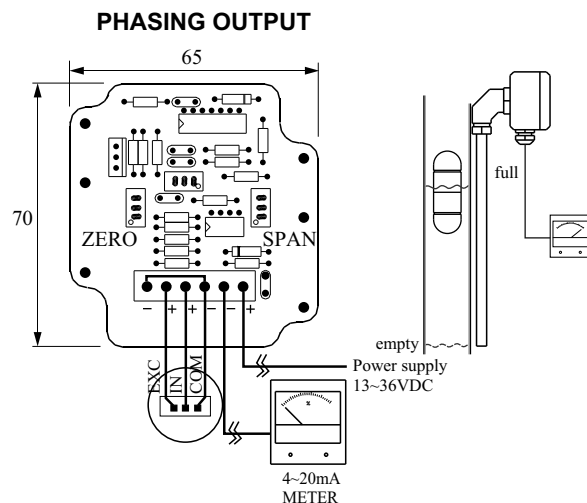
Wiring Configuration



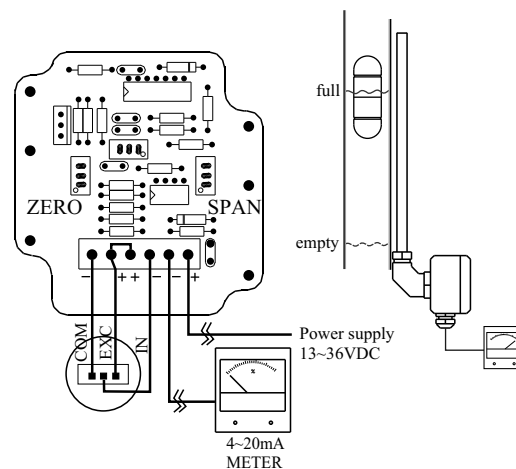
TYPE: PCM-1532

- | | | | |
|-------------------------|------------|----------------------|------------------------|
| 1. Supply Voltage | : 13~36VDC | 5. Adjustable Range | : 30% |
| 2. Input Signal | : 0~1M | 6. Accuracy | : 0.1% |
| 3. Phasing Output | : 4~20mA | 7. Output Resistance | : $(V_s - 13V) / 20mA$ |
| 4. Inverse Phase Output | : 20~4mA | 8. Operating Temp. | : -10~80 °C |

Wiring Configuration

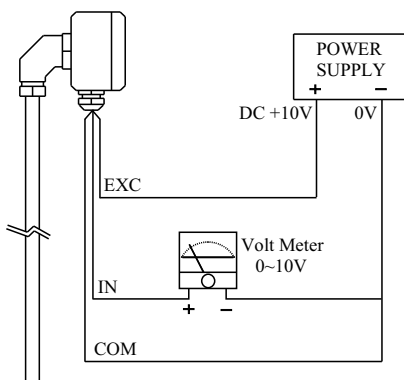


INVERSE PHASE OUTPUT

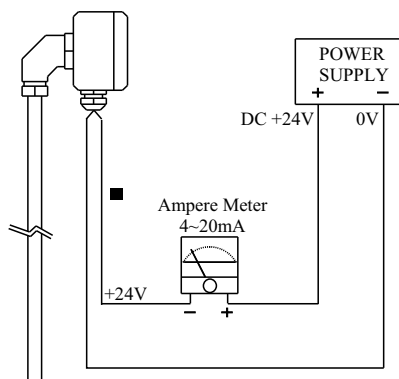


LEVEL TRANSDUCER WIRING DIAGRAMS

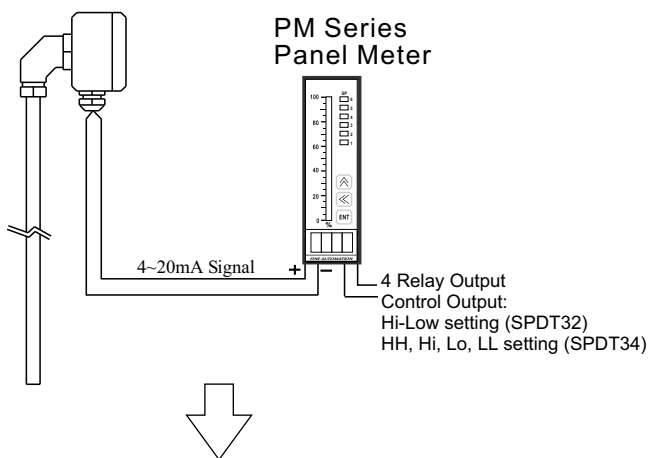
- Level transducer (resistance output) connected with analog meter for level monitoring.



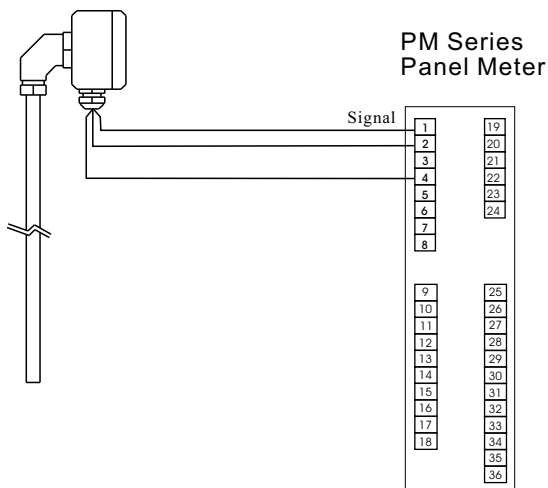
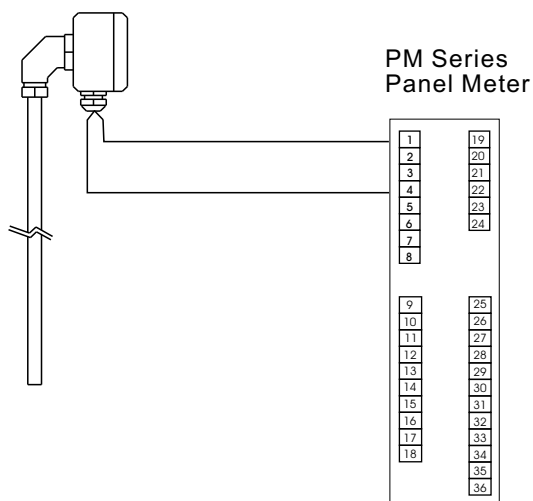
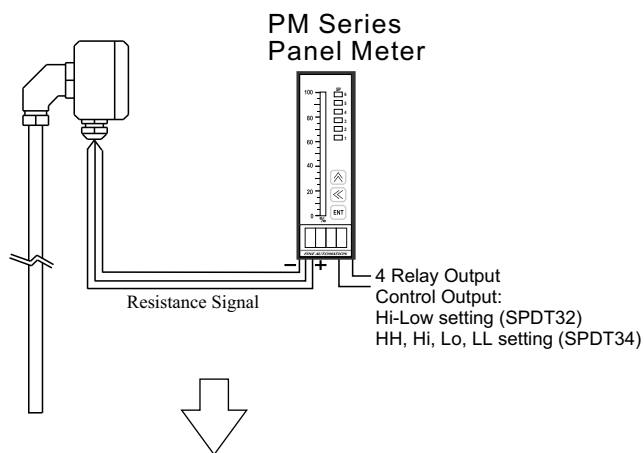
- Level transducer (4~20mA output) connected with 4~20mA analog meter for level monitoring.



- Level transducer (4~20mA output) connected with digital meter (PM-Series) for level control.



- Level transducer (resistance output) connected with digital meter (PM-Series) for level control.



TYPICAL ASSEMBLE

1. Represents a By-pass Level indicator with the standard magnetic switches (Aluminum Alloy) and liquid level transmitter. It is suitable for outdoor or moist environment for its housing protection IP65.

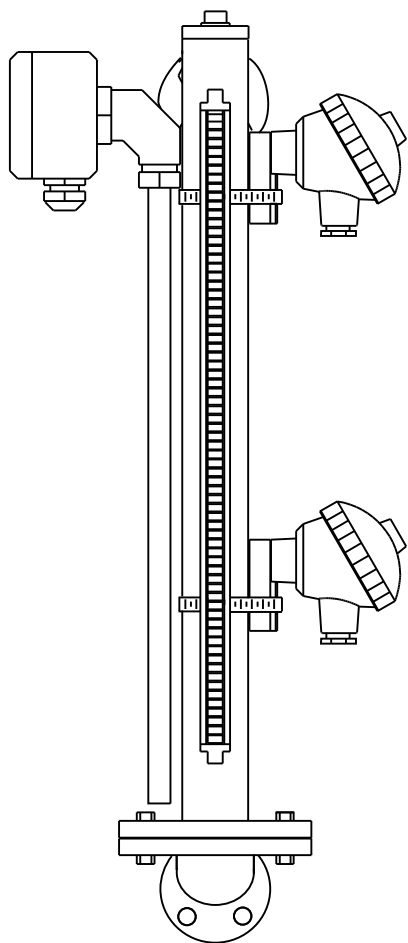


fig. 1

2. Represents a By-pass Level Indicator with explosion-proof magnetic switches. It is applicable for explosive & hazardous environments for its housing protection EEx d IIC T6.

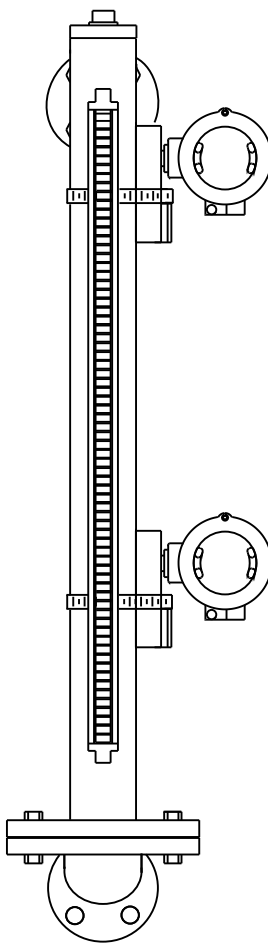


fig. 2

3. Represents a By-pass Level Indicator with adjustable magnetic switches and SUS304 ruler. It can be assembled with upward/downward movable multiple magnetic switches on a riding rod.

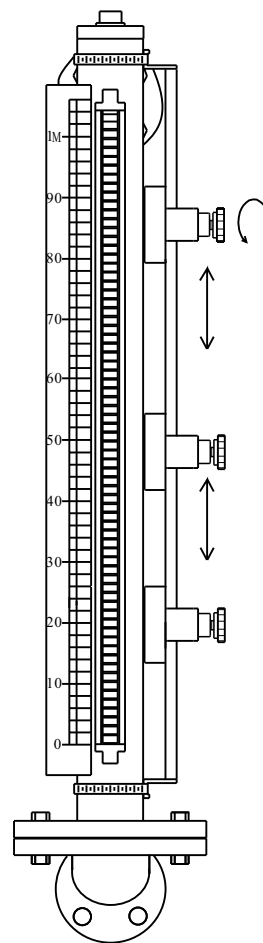


fig. 3

IMPORTANCE FOR INSTALLATION

1. Because the magnetic switch is a sensitive component, any extreme shock to the switch will cause a malfunction.
2. Make sure there is no external magnetic field or source within 10 centimeters of the switch to avoid magnetic interference.
3. Make sure the wire of the magnetic switch is pointing down.
4. Do not contact any high temperature material with unit's cables while wiring.
5. When using magnetic switch to control inductive or capacitive load, a RC protective circuit should be used to ensure long life of the switch contact.
6. The magnetic switch (BPB-12 & BPB-13) is to be placed on a chamber, then fasten the magnetic switch to the chamber with a hose clamp. (see fig.1A and page 19 - fig.1, fig.2) positioning orientation of magnetic switches as fig.2A.
7. The magnetic switch must be located near the flag display and the surface of it is as close to the outer chamber wall as possible.
8. Before actuating, be sure all wiring is done correctly.
9. The magnetic switch (BPB-14 series) is to be placed on a riding rod, then fastened the riding rod to the chamber with two hose clamps. (see page 19 - fig.3)
10. The install direction of mounting holes see fig.3A

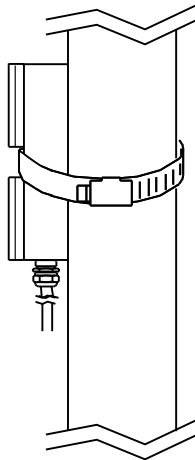


fig. 1A

Position Orientation Of Magnetic Switches

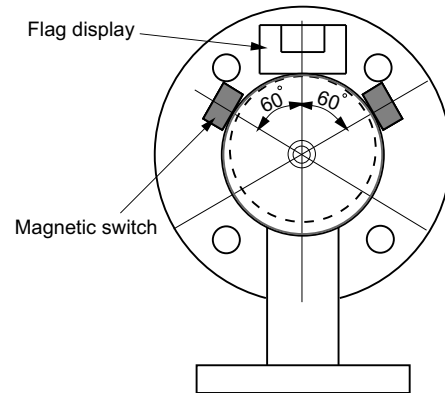


fig. 2A

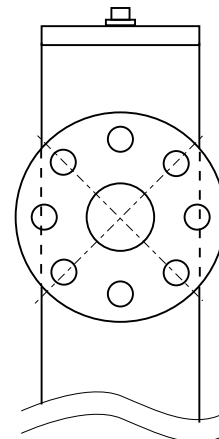
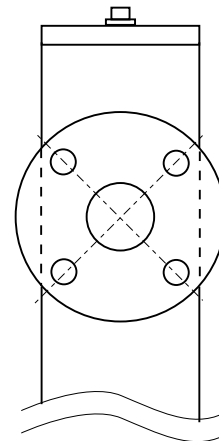
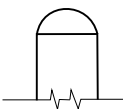
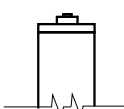
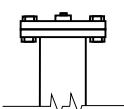
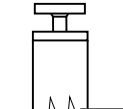
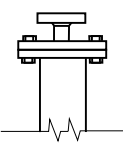
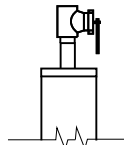
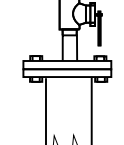
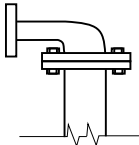


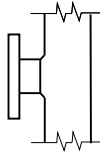
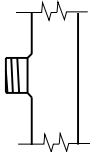
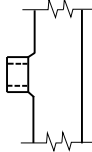
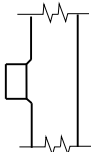
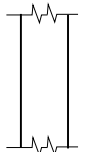
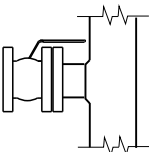
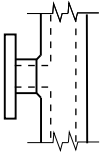
fig. 3A

ORDER INFORMATION

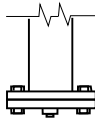
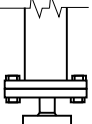
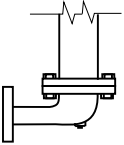
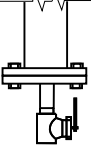
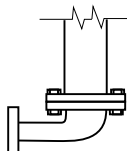
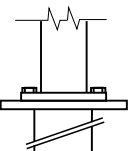
Top End Type

A Cap	B Flat top +Plug	C Dual flange +Plug	D Flat top +Top mounting flange
			
E Dual flange +Top mounting flange	F Flat top +Control valve	G Dual flange +Control valve	N Dual flange +Angle pipe
			

Connection

1 Flange	2 Screw (bolt type)	3 Screw (nut type)	4 Slip pipe	5 N/A	7 Control value	8 Jacket
						

Bottom End Type

H Dual flange+Plug	I Dual flange +Top mounting flange	J Dual flange +Angel pipe+Plug	K Dual flange +Control valve
			
L Dual flange +Angle pipe	M Dual flange +Top mounting pipe		
			

HOW TO MAKE YOUR ORDER

BP **A** **1** **1** **A1H** - **1** **J3**

Float type (see page 8, 9)

- | | |
|----------------------|------------------------|
| 1: BPB-2500 (PVDF) | C: BPB-2580 (SUS316) |
| 2: BPB-2510 (PP) | D: BPB-2600 (SUS316) |
| 3: BPB-2540 (SUS316) | E: BPB-2620 (TITANIUM) |
| A: BPB-2560 (SUS316) | G: BPB-2630 (TITANIUM) |

Chamber

- | | |
|----------------------------|--------------------|
| 1: SUS304 -- 140 C | 6: PP -- 80 C |
| 2: SUS304 -- 400 C (350 C) | 7: PVDF -- 120 C |
| 3: SUS316 -- 140 C | 8: SUS304 -- 200 C |
| 4: SUS316 -- 400 C (350 C) | 9: SUS316 -- 200 C |

Flag Display (see page 10)

- 1: BPB - 0700
- 2: BPB - 0710
- 3: BPB - 0720
- 4: BPB - 0730

End / Connection type (see page 21)

Top end Type

- A: Cap
 B: Flat top+Plug
 C: Dual flange+Plug
 D: Flat top
 +Top mounting flange
 E: Dual flange
 +Top mounting flange
 F: Flat top+Control valve
 G: Dual flange+Control valve
 N: Dual flange+angle pipe

Connection

- 1: Flange
- 2: Screw (bolt type)
- 3: Screw (nut type)
- 4: Slip pipe
- 5: N/A
- 7: Control valve
- 8: Jacket

Bottom end Type

- H: Dual flange+Plug
 I: Dual flange
 +Top mounting flange
 J: Dual flange+angel pipe
 +Plug
 K: Dual flange+control valve
 L: Dual flange+angle pipe
 M: Dual flange
 +Top mounting pipe

Operating Pressure range

- 1: -1~ 10kg/cm²
- 2: -1~ 25kg/cm²
- 3: -1~ 50kg/cm²
- 4: -1~100kg/cm²

Magnetic Switch (see page 14)

- | | |
|--------------|--------------|
| A: BPB -1220 | G: BPB -1400 |
| B: BPB -1230 | H: BPB -1410 |
| C: BPB -1250 | I: BPB -1420 |
| D: BPB -1260 | J: BPB -1430 |
| E: BPB -1300 | K: BPB -1450 |
| F: BPB -1310 | |

Quantity

1~ 4