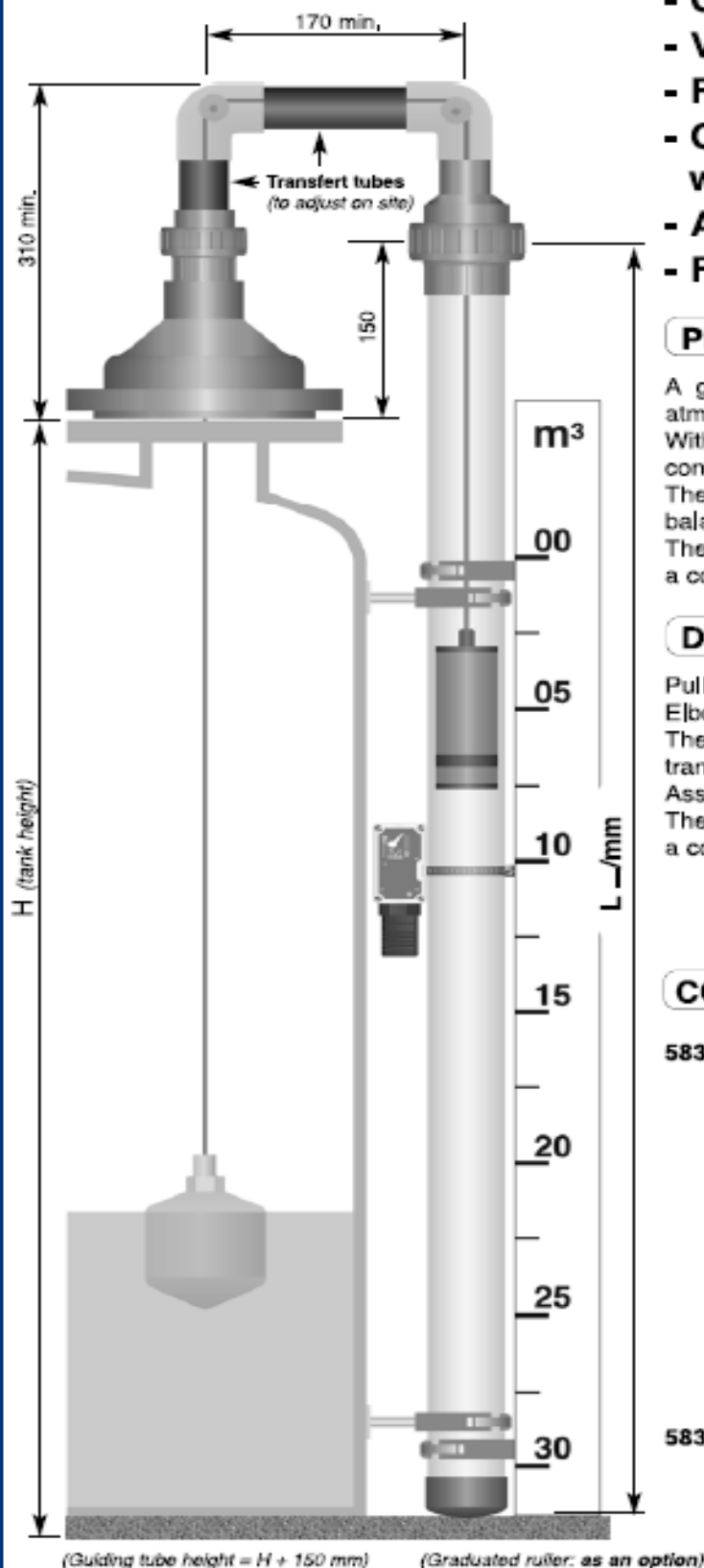# Gas tight cable operated level indicator
## SFA/E

- Gas tight cable operated level indicator
- Vapours confining
- Fluid protection from contamination
- Convenient to viscous, aggressive, wasted liquids
- Adjustable on site, easy to install
- For any tank height



*170 min.*

*Transfert tubes (to adjust on site)*

*310 min.*

*150*

*H (tank height)*

m³

00
05
10
15
20
25
30

L /mm

*(Guiding tube height = H + 150 mm)*  *(Graduated ruler: as an option)*

## PRINCIPE

A gas tight tubing with a flange connection to tank allows a safer atmosphere outside the tank; all vapours are confined inside the SFA/E. With the same tightness, a SFA/E protects also the inside tank fluid from contamination with outside atmosphere.
The float, suspended to a cable supported with 2 pulleys, drives a balance weight inside the external transparent tube.
The balance weight has a built in magnet to operate the level switches or a continuous level 4-20 mA transmitter (optional accessories).

## DESCRIPTION

Pulleys are built in, into PVC elbows with a special cable no jump system.
Elbows are glued on site to PVC tubes.
The balance weight allows an easy level reading. It is guided in a transparent PVC tube (Ø 63 x 57), tightly closed.
Assembly is connected to the tank with a PVC flange (ND 100).
The balance weight has a built in magnet to operate the level switches or a continuous level 4-20 mA transmitter (optional accessories).

> Before manufacturing, specify L ..... mm

## CODE NUMBERS AND REFERENCES

**583 700**  **SFA/E/F8 , PVC and PPH gas tight model, including:**
1 PVC guiding tube, Ø 57 x 63 mm (closed on one end)
Total length to specify when ordering
2 PVC transfer tubes, Ø 40 mm, to adjust and glue on site
Standard length 1000 mm
1 PPH float, Ø 98 mm                         FP/SFA
PPH cable, Ø 3 mm, 5 m long               CPM/SFA
2 gas tight pulleys                          PE/SFA
1 balance weight with built in magnet     CP/SFA
1 PVC flange ND 100
2 Fixation collars for Ø 63 PE drives tube
Collars for tube Ø 63 mm fitting
Polyethylene collar

**583 720**  **Kit SFA/E without guiding tube**
2 gas tight pulleys                          PE/SFA
1 PPH float, Ø 98 mm                         FP/SFA
1 Magnetized counterweight                CP/SFA
5 meters / Ø 3 PPH cable                  CPM/SFA

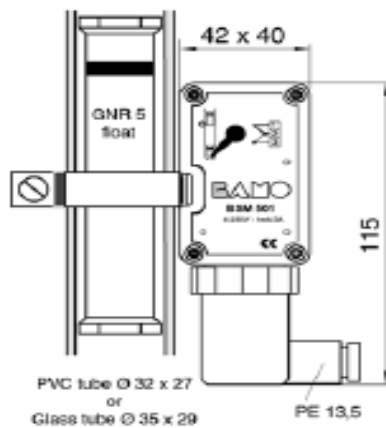# LEVEL SWITCH BY MICROSWITCH
# BSM 501- BSM 515

- **Strong braking capacity**
- **Reverse and bistabe switch**
- **IP 65 housing**

**BSM 501**

## PRINCIPLE

Magnetic handle, drived by float or conterweight, establish a dry contac operating on a microswitch. The various components such as terminal block are lead on printed board, the totality in an IP 65 box equiped with an outpu Pg13,5 stuffing box, and a S. Steel clamp for mounting on standard tube diameter 32, 35, 63 mm.

## TECHNICAL FEATURES

| | |
|---|---|
| Rated voltage | : 4 V ...250 V AC, 4 V ....30 V DC |
| Rated current | : 1 mA...3 A (AC or DC) |
| Switching principle | : magnetic actuated micro switch with change over contact |
| Min. distance | : 40 mm (between two switching points) |
| Max. cable cross section: | : 1,5 mm$^2$ |
| Electrical connection | : 3-pole cable plug acc. DIN EN 175301 with PE terminal |
| Ambient temperature | : −20 °C...+90 °C |
| Material | : Translucent polycarbonate |
| Fixing | : Stainless steel collar for Ø 32, 35 or 63 |
| Housing | : IP 65 acc. EN 60 529 |
| CE labels | : In accordance with low Voltage Guidelines 72/73/EEC, EMV Guidelines 89/336/EEC |

**GNR 5 float**

42 x 40

115

PVC tube Ø 32 x 27
or
Glass tube Ø 35 x 29

PE 13,5

## ACTIONNEURS ELEMENTS FOR BSM 501

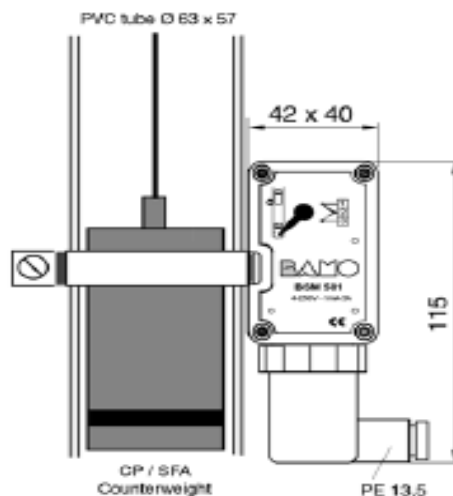| Code | Type | Reference |
|---|---|---|
| 570 075 | GNR 51 PPh | Float for GNR 5 Glass |
| 570 080 | GNR 52 PPh | Float PPh Ø 32 for GNR 5 |
| 570 082 | GNR 53 PVDF | Float for GNR 5 Ø 32 PVC |
| 570 085 | GNR 62 | Float for GNR 6 PVC |
| 583 400 | CP/SFA | Counterweight for SFA and SFA/E |

PVC tube Ø 63 x 57

42 x 40

115

## ACTIONNEURS ELEMENTS FOR BSM 515

| Code | Type | Reference |
|---|---|---|
| 560 ... | Float | Float for MAGTOP |

CP / SFA
Counterweight

PE 13,5

## CODES AND REFERENCES

| Code | Reference | Using |
|---|---|---|
| 585 132 | BSM 501 / 32 | Switch for GNR 5 and FS4 |
| 585 163 | BSM 501 / 63 | Switch for SFA, SFA/E and GNR 6 |
| 585 515 | BSM 515 / 63 | Switch for MAGTOP in Stainless Steel (1) |

(1) Specific for stainless steel MAGTOP only
— Not suitable for Plastic or Steel MAGTOP.

DESIGN | MANUFACTURE | INSTALLATION

Digestors, Silos & Tanks Ltd, T/A SILOTANK, Pembroke Loop Road, Springbank Industrial Estate, Dunmurry, Belfast, BT17 0QL
Tel: +44 (0)28 9062 6256 Fax: +44 (0)28 9062 6224 Web: www.silotank.com Email: sales@silotank.com

SILOTANK