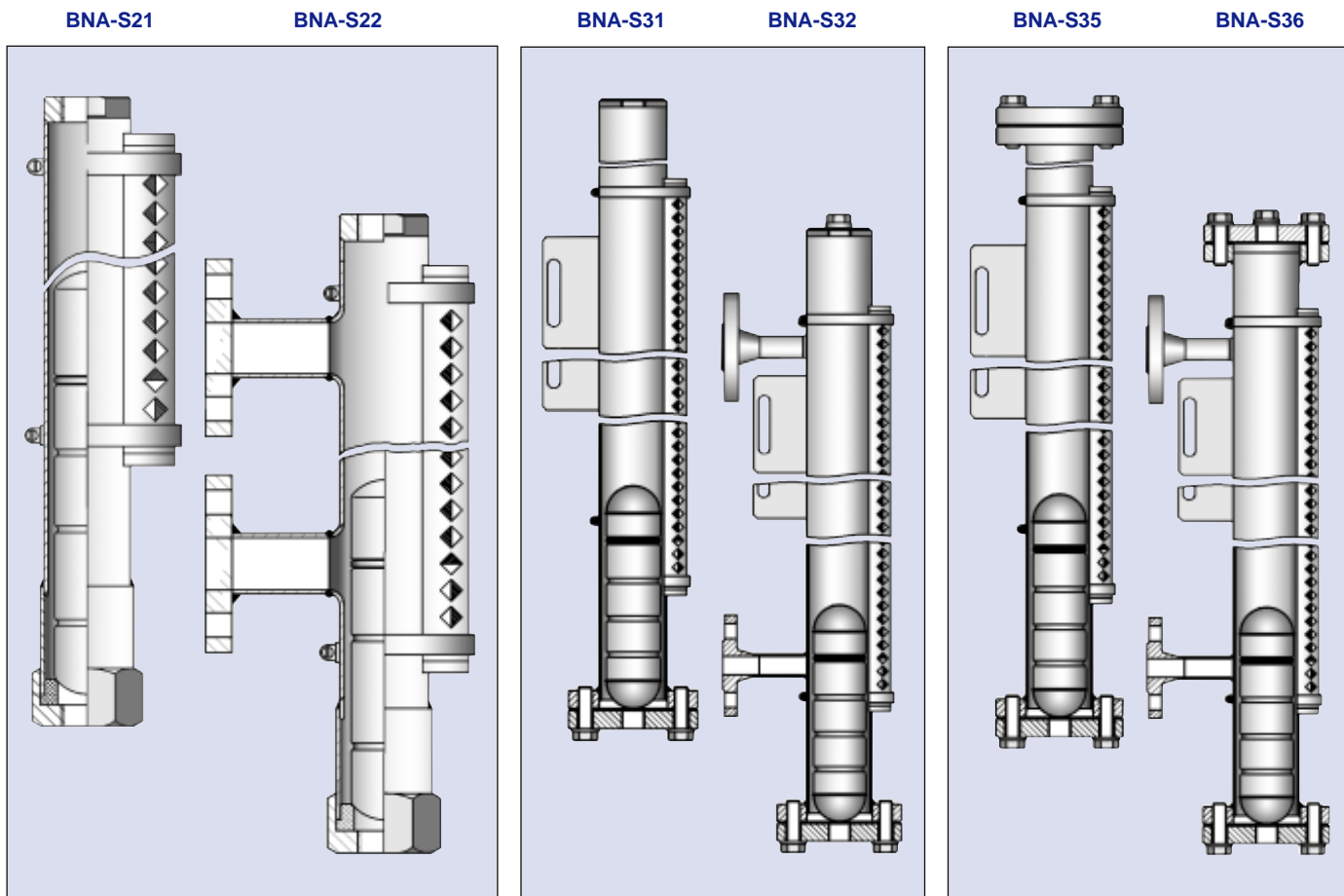


Overview



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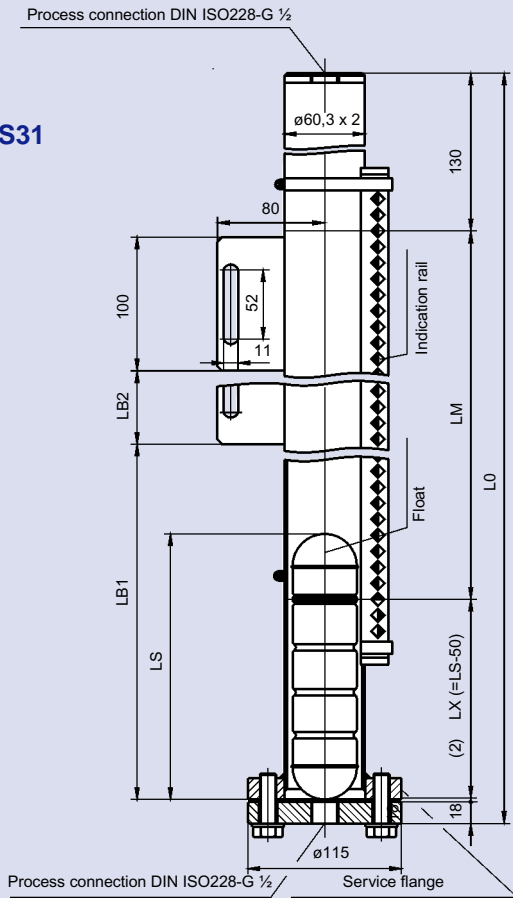
| Type | BNA-S21 BNA-S22 | BNA-S31 BNA-S32 | BNA-S35 BNA-S36 |
|---|---|---|--|
| Measuring Ranges | LM max. 3000 mm in one piece, max. LM in split sections on request | LM max. 6000 mm in one piece, max. LM in split sections on request | LM max. 6000 mm one piece, max. LM in split sections on request |
| Indication Rail Assembly | Makrolon (Polycarbonate), with red/white square flags | Makrolon (Polycarbonate), with red/white square flags | Makrolon (Polycarbonate), with red/white square flags |
| Process Connection (without Adaptor) | BNA-S21: top and bottom G 1/2 BNA-S22: side mounted | BNA-S31: top and bottom G 1/2 BNA-S32: side mounted | BNA-S35: top and bottom G 1/2 BNA-S36: side mounted |
| Stem | Stainl. St. 1. 4571 (SS 316 Ti) PN 25, Diameter 40 x 1 mm | Stainl. St. 1. 4571 (SS 316 Ti) PN 16, Diameter 60,3 x 2 mm | Stainl. St. 1.4571 (SS 316 Ti) PN 16, Diameter 60, 3 x 2 mm |
| Float | Standard: VA 30/02, (SS 316Ti) 1.4571, max. 25 bar and 150 °C, min. Density: 0,85 g/cm ³ | Standard PN 25: VA 50/10 in 1.4571, min. Density: 0,62 g/cm ³ , max. Temperature: 150 °C | Standard PN 25: VA 50/10 in 1. 4571min. Density: 0,62 g/cm ³ , max. Temperature: 150 °C |
| Max. Pressure in bar | 25 bar | 16 bar | 16 bar |
| Max. Temperature | 150 °C | 150 °C | 150 °C |
| Options | Titanium- / Buna-N Float | Alu-Indication Rail, Titanium-Float, Special Connections | Alu-Indication Rail, Titanium-Float, Special Connections |
| Approvals | Shipbuilding Approval | Shipbuilding Approval | Shipbuilding Approval |

Specifications are subject to changes without notice.

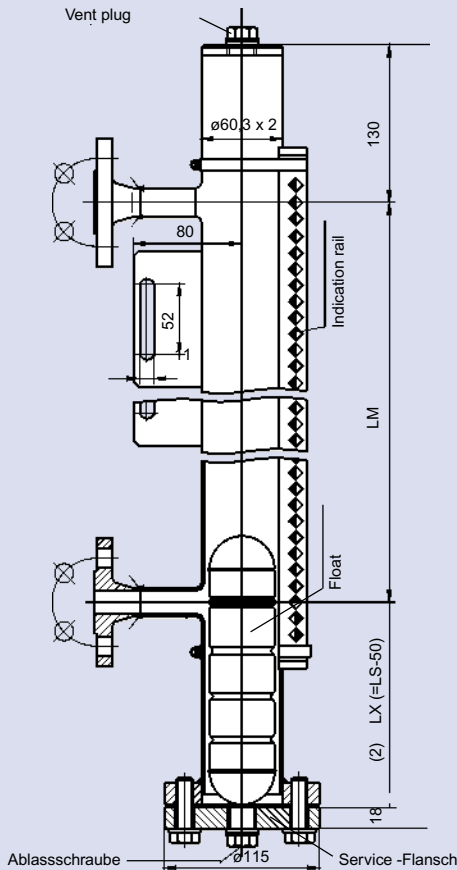
BNA-S31/-S32

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BNA-S31



BNA-S32



Technical Data

Standard Version:

Measuring range: L0 max. 6000 mm in one piece, max. LM in split sections on request

Bypass tube: Stainless Steel No. 1.4571 (SS 316 Ti)
PN 16, diameter 60,3 x 2 mm

Proof pressure: 1,5 x max. operating pressure

Process conn.: G 1/2 top and bottom with plug

Side connections: Threaded R 1/2, R 3/4, 1" or
DIN flanges DN 15, 25, 32, 40 oder 50, or
ASA DN 1/2", 3/4", 1", 1 1/4", 1 1/2"

Indication rail: Makrolon (Polycarbonate) with red and white square flags for medium temp. up to 150 °C

Float(s): Standard PN 25: VA 50/10 in 1.4571,
min. density: 0,62 g/cm³, max. temp. 150 °C

Type: Top G 1/2, bottom service-flange:
BNA-S31, top and bottom connections G 1/2
BNA-S32, side connections

Options:

Indication rail: Aluminum, black anodized,
square flags painted silver/red,
up to max. 350 °C –A2

Float(s): **VA 50/15** in 1.4571, with M4 plug,
min. density: 0,63 g/cm³, max. temp.: 150 °C

TT 50/10 in Titanium,
min. density: 0,56 g/cm³, max. temp.: 320 °C

TT 50/15 in Titanium, with M4 plug,
min. density: 0,57 g/cm³, max. temp. 320 °C

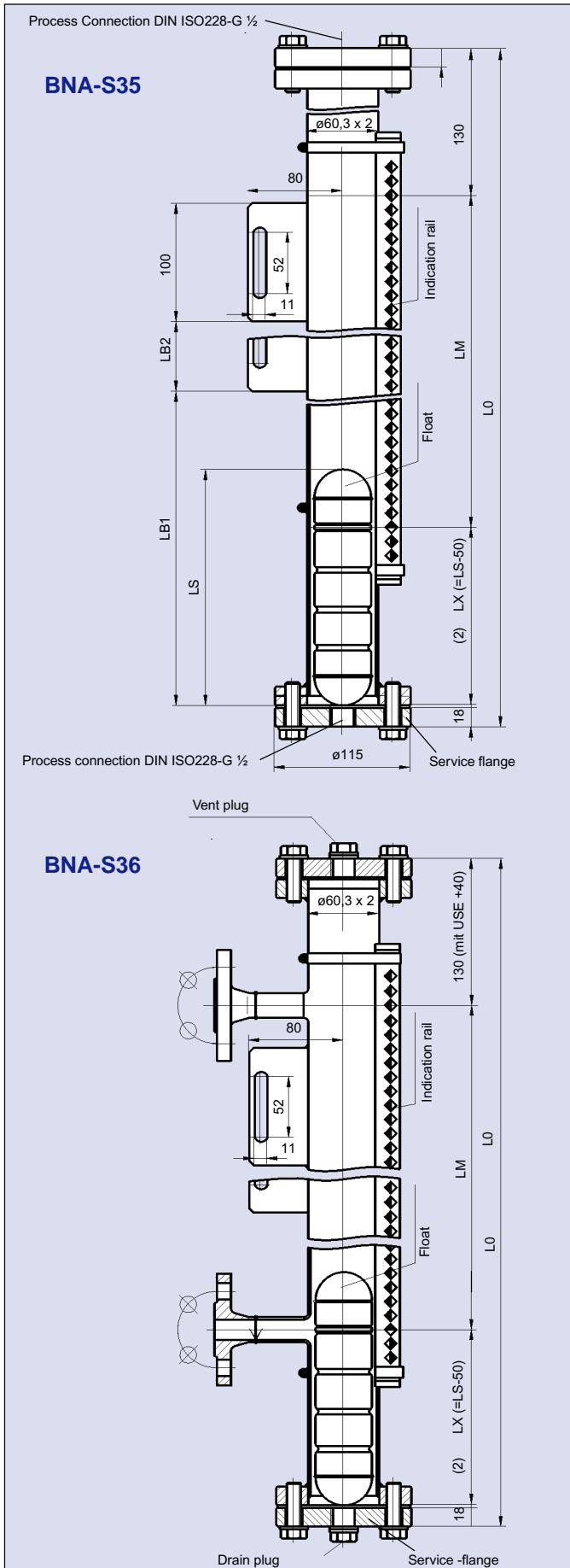
Connections: Instead of G 1/2 top and bottom, 1/2" NPT,
or flange connections with
weld neck flanges

Accessories:

- Limit switches
- Analog output
- Scale
- Isolation
- Tests / Certificates

Specifications are subject to changes without notice.

BNA-S35/-S36



Technical Data

Standard Version:

Measuring range: L0 max. 6000 mm in one piece, max. LM in split sections on request

Bypass tube: Stainless Steel No. 1.4571 (SS 316 Ti)
PN 16, diameter 60,3 x 2 mm

Proof pressure: 1,5 x max. operating pressure

Process conn.: G ½ top and bottom with plug

Side connections: Threaded R ½, R ¾, 1" or
DIN flanges DN 15, 25, 32, 40 oder 50, or
ASA DN ½", ¾", 1", 1¼", 1½"

Indication rail: Makrolon (Polycarbonate) with red and white square flags for medium temp. up to 150 °C

Float(s): VA 50/10 in 1.4571,
min. density: 0,62 g/cm³, max. temp. 150 °C

Type: Top and bottom service-flanges:
BNA-S35, top and bottom connections G ½
BNA-S36, side connections

Options:

Indication rail: Aluminum, black anodized,
square flags painted silver/red,
up to max. 350 °C –A2

Float(s): **VA 50/15** in 1.4571, with M4 plug,
min. density: 0,63 g/cm³, max. temp.: 150 °C

TT 50/10 in Titanium,
min. density: 0,56 g/cm³, max. temp.: 320 °C

TT 50/15 in Titanium, with M4 plug,
min. density: 0,57 g/cm³, max. temp. 320 °C

Connections: Instead of G ½ top and bottom, ½" NPT,
or flange connections with
weld neck flanges

Accessories:

Limit switches
Analog output
Scale
Isolation
Tests / Certificates

Order data BNA-S31 to BNA-S46

| | |
|--------------|--|
| Type: | Version: |
| BNA-S31 | PN 16, top and bottom G ½ process conn., , service-flange only bottom |
| BNA-S32 | PN 16, side conn., indication rail Makrolon, service-flange only bottom |
| BNA-S35 | PN 16, top and bottom G ½ process conn., indication rail Makrolon, service-flange top and bottom |
| BNA-S36 | PN 16, side conn., indication rail Makrolon, service-flange top and bottom |
| BNA-S41 | PN 40, top and bottom G ½ process conn., indication rail Makrolon, service-flange only bottom |
| BNA-S42 | PN 40, side conn., indication rail Makrolon, service-flange only bottom |
| BNA-S45 | PN 40, top and bottom G ½ process conn., indication rail Makrolon, service-flange top and bottom |
| BNA-S46 | PN 40, side conn., indication rail Makrolon, service-flange only bottom |

Side connections:

- R ½" or ½" NPT female threads
- R ¾" or ¾" NPT female threads
- R 1" or 1" NPT female threads
- DN 15 flange PN16 / DIN 2633 or PN 40 / DIN 2635
- DN 20 flange PN16 / DIN 2633 or PN 40 / DIN 2635
- DN 25 flange PN16 / DIN 2633 or PN 40 / DIN 2635
- DN 32 flange PN16 / DIN 2633 or PN 40 / DIN 2635
- DN 40 flange, as above, with concentric reducer from DN 40 to DN 32
- DN 50 flange, as above, with concentric reducer from DN 50 to DN 32
- DN ½" flange PN 16 / 150 lbs, PN 40 / 300 lbs ANSI B 16,5
- DN ¾" flange PN 16 / 150 lbs, PN 40 / 300 lbs ANSI B 16,5
- DN 1" flange PN 16 / 150 lbs, PN 40 / 300 lbs ANSI B 16,5
- DN 1¼" flange PN 16 / 150 lbs, PN 40 / 300 lbs ANSI B 16,5
- DN 1½" flange, as above, with concentric reducer from DN 32 to DN 40
- DN 2" flange, as above, with concentric reducer from DN 32 to DN 50

Dimensions in mm (Examples):

- 2000/1 LM = 2000 mm / in one piece
- 3600/2 LM = 3600 mm / in two pieces

Float:

- VA 50/10 material: 1.4571, max. 25 bar / 150 °C, min. density: 0,62 g/cm³
- VA 50/15 material: 1.4571, as above, with plug M4
- TT 50/10 material: Titanium, max. 40 bar / 320 °C, min. density: 0,56 g/cm³
- TT 50/15 material: Titanium, as above, with plug M4

Indication rail:

- MA Makrolon = standard, max. temp.: 150 °C
- A2 Aluminum painted, max. temp.: 350 °C

Isolation:

- AR Armaflex, foam rubber isolation, temp. limits: -40...105 °C
- GL protective cover; glass fiber tape, temp. limits: -40...500 °C
- PO Polyolefin shrink tubing; weather and dirt protection

Limit switch: (Please note: The first digit indicates the quantity)

- 1GK01 one limit switch GK01, temp. limits: -55...140 °C
- 1GK01L as above, with red and green LED.
- 1GK02 one limit switch EX, temp. limits: -25...75 °C
- 2GKHT1 two limit switches high temperature, temp.: -55...350 °C

Analog output:

- XM potentiometer resistive output
- XMi as above with EEx i approval
- XT with signal cond. 4...20 mA
- XTi with 4...20 mA output EExi

Scale

- SK scale

Heating:

- EL electr. trace heating
- ELX in EEx d
- D double tube

Detailed specification needed in order to process orders

BNA-S32- DN25- 2600/1- VA 50/15- MA- AR- 2GK01- XTi- SK- EL (Example)