Bypass Level Indicators

The plastic bypass level indicator is available for measuring lengths up to 3000 mm in one piece (LM in split sections on request).

Applications

Tanks in which due to their construction internal measurement is impossible, e.g. ship building, sewage works.

Technical Data

Bypass tube:	ø63 x 3 mm		
BNC type:	K302.1/K303	K402.1/K403	K702.1/K703
Material:	PVC	PVDF	PP
Nom. pressure [bar]:	2.5	6.0	2.5
Max. temp. [°C]:	60	140	80
Float:			
Standard:	**PVC** min. density: 0.54 g/cm³ **PVDF** min. density: 0.66 g/cm³ **PP** min. density: 0.45 g/cm³		
Note:	The standard floats are relatively light. They are, however, weighted when manufactured. So they immerse into the medium and indicate the level correctly. Please indicate medium density in your order.		
Proof pressure:	1.5 x operating pressure		
Process connections:			
Standard:	With lap joint flanges with stub ends according to DIN 8063 PN 10 **BNA-K302.1/K402.1/K702.1** top and bottom connections: DN 50 **BNA-K303/K403/K703** side mounting: DN 15…DN 50		
Option:	Special flange connections are possible		
Indication rail:			
Standard:	Makrolon (polycarbonate) clear, with white/red indication flags		
Accessories:	Limit switches, Transmitters, Electronic transmitters, Isolation, Tests/certificates		

Dimensions (in mm/*inch*)

Type BNA-K302.1/K402.1/K702.1

Type BNA-K303/K403/K703
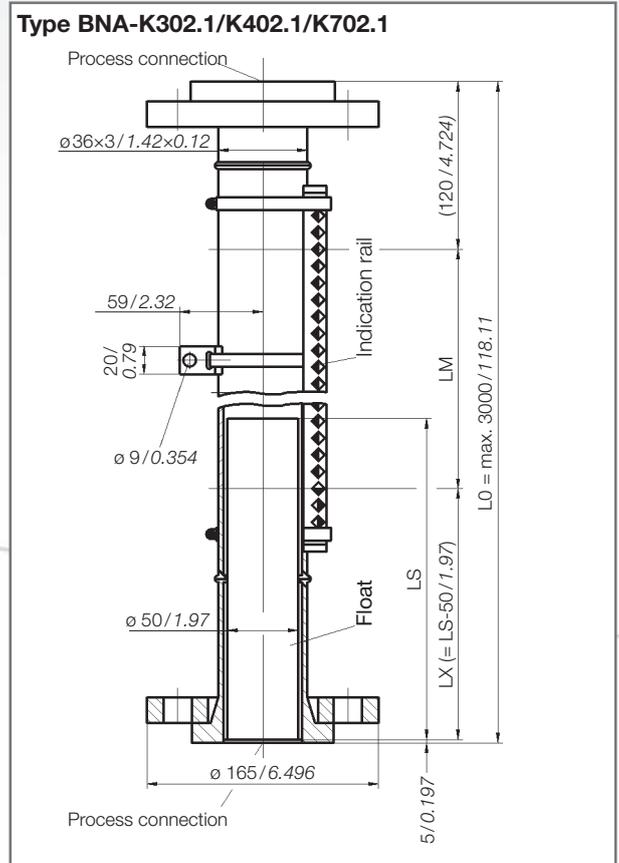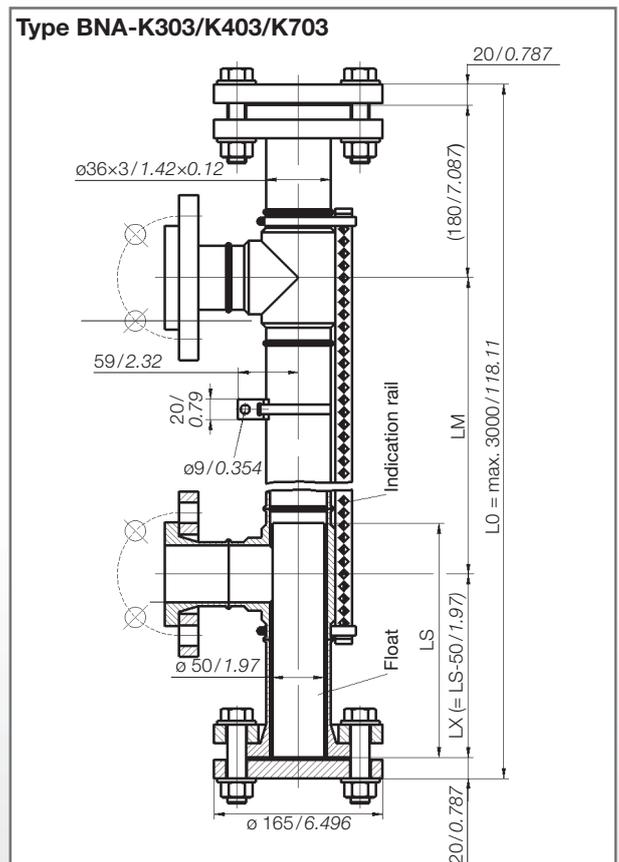
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Specifications are subject to changes without notice.

Bypass Level Indicators

Type BNA-K302.1/K402.1/K702.1/K303/K403/K703

Type:	Version:
BNA-K302.1	PVC with top and bottom lap joint flange DIN 8063 PN10 DN50, Makrolon indication rail
BNA-K303	PVC with side lap joint flange and top and bottom blind flange DN50, Makrolon indication rail
BNA-K402.1	PVDF with top and bottom lap joint flange DIN 8063 PN10 DN50, Makrolon indication rail
BNA-K403	PVDF with side lap joint flange and top and bottom blind flange DN50, Makrolon indication rail
BNA-K702.1	PP with top and bottom lap joint flange DIN 8063 PN10 DN50, Makrolon indication rail
BNA-K703	PP with side lap joint flange and top and bottom blind flange DN50, Makrolon indication rail

Side connections:

DN 15	Flange, lap joint with stub end acc. to PN10/DIN 8063, reduced from DN 50 T piece
DN 20	Flange, lap joint with stub end acc. to PN10/DIN 8063, reduced from DN 50 T piece
DN 25	Flange, lap joint with stub end acc. to PN10/DIN 8063, reduced from DN 50 T piece
DN 32	Flange, lap joint with stub end acc. to PN10/DIN 8063, reduced from DN 50 T piece
DN 40	Flange, lap joint with stub end acc. to PN10/DIN 8063, reduced from DN 50 T piece
DN 50	Flange, lap joint with stub end acc. to PN10/DIN 8063
½"	Flange, lap joint with stub end acc. to 150 lbs, reduced from DN 50 T piece
¾"	Flange, lap joint with stub end acc. to 150 lbs, reduced from DN 50 T piece
1"	Flange, lap joint with stub end acc. to 150 lbs, reduced from DN 50 T piece
1 ¼"	Flange, lap joint with stub end acc. to 150 lbs, reduced from DN 50 T piece
1 ½"	Flange, lap joint with stub end acc. to 150 lbs, reduced from DN 50 T piece
2"	Flange, lap joint with stub end acc. to 150 lbs

Indicator length [mm] (example):

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

Float:

PVC 50/10	max. 2.5 bar/+60 °C, min. density: 0.54 g/cm³
PP 50/10	max. 2.5 bar/+80 °C, min. density: 0.45 g/cm³
PVDF 50/10	max. 6.0 bar/+140 °C, min. density: 0.66 g/cm³
Note:	*Please specify the medium density in your order, so that we can calibrate the float accordingly.*

Isolation:

PO   Poliolefine shrink tubing, weather and dust protection for indication rail

Limit switches:

The digit preceding the first letter indicates the desired quantity.

1GK03   1 limit switch GK03, temperature: -55 °C…+140 °C

Remote indication:

XM	Remote indicator, potentiometer
XMi	As above, **Ex i** version
TX	with 4…20 mA
TXi	with 4…20 mA **Ex i**

Scale:

SK   Scale*

Heating:

EL	Electric heating*
ELX	in EX d *

BNA-K703	- DN 50	- 2600/1	- PP 50/10	- PO	- 2GK03	- XTi	- SK	- EL	(Example)

* Detailed specification and description required.