



# NBK Application Guide

Rev 09/07/18

## General Information

Contact Name: \_\_\_\_\_

Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

Part Number: \_\_\_\_\_

Phone: \_\_\_\_\_

Number of Pieces Required: \_\_\_\_\_

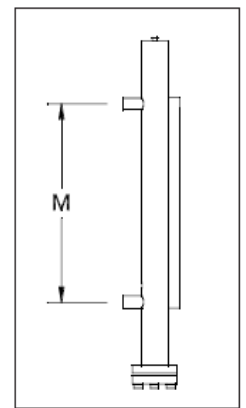
Email: \_\_\_\_\_

Quote Number (if already quoted): \_\_\_\_\_

This has not been quoted yet and pricing is required.

## Design Conditions (Accurate process information is essential to ensure proper operation of your level indicator. Please fill out accurately and completely)

1. Pressure: Normal \_\_\_\_\_ PSIG Maximum \_\_\_\_\_ PSIG
2. Temperature: Normal \_\_\_\_\_ °F Maximum \_\_\_\_\_ °F
3. Type of Liquid: \_\_\_\_\_
4. Liquid Specific Gravity at Normal Operating Temp: \_\_\_\_\_ Maximum Temp: \_\_\_\_\_
5. Liquid Viscosity at Normal Operating Temp: \_\_\_\_\_



## Mounting Configuration

1. Measuring Length M: \_\_\_\_\_ Inches cm (M=center to center length between fittings)
2. Fitting Size: 1/2" 3/4" 1" 1-1/4" 1-1/2" 2"
3. Fitting Type: NPT Thread (1-1/4" max) 150 LB ANSI Flange 300 LB ANSI Flange  
400 LB ANSI Flange 600 LB ANSI FLANGE Other (specify): \_\_\_\_\_

## Options - Indicator

- Polypropylene Roller (250°F max. temp.) Suffix -RP Ceramic Roller (750°F max. temp.) Suffix -RK
- Ball Display with Plexiglas Sight Tube (max. temp. 175°F) Suffix -KP
- Ball Display with Makrolon® Sight Tube (max. temp. 250°F) Suffix -KM
- Ball Display with Makrolon® Sight Tube with Oil Filling (max. temp. 250°F) Suffix -KP
- Ball Display with Borosilicate Glass Sight Tube (max. temp. 390°F) Suffix -KG

## Options - Transmitter

- Magnetostrictive Probe (4...20mA, 4-wire) Suffix -T Reed Chain (0.7...7kΩ) Suffix -W
- Reed Chain (4...20mA, 2-wire) Suffix -M Reed Chain (4...20mA, 2-wire with HART®) Suffix -H
- Reed Chain (PROFIBUS® PA FOUNDATION™ Fieldbus) Suffix -F

## Options - Switch

- NBK-R (250°F max temp) Qty: \_\_\_\_\_ NBK-RT200 (390°F max temp) Qty: \_\_\_\_\_
- NBK-RT400 (750°F max temp) Qty: \_\_\_\_\_
- NBK-RV200NO (390°F max temp) Qty: \_\_\_\_\_ NBK-RN200NO (390°F max temp) Qty: \_\_\_\_\_
- NBK-RV200NC (390°F max temp) Qty: \_\_\_\_\_ NBK-RN200NC (390°F max temp) Qty: \_\_\_\_\_

### **Options - Top Bypass Tube Connections**

- Without Vent Plug (for NBK-03/06/07, standard for NBK-10/31/32) Suffix -V0
- With Vent Plug (for NBK-10/31/32, standard for NBK-03/06/07) Suffix -VN
- Flange Connection 2" ASME (pressure rating same as the process flange) Suffix -VA
- Flange Connection DIN (pressure rating same as the process flange) with vent plug ½" NPT Suffix -VJ
- Vent Flange 1/2" ASME (pressure rating same as the process flange, NBK-03/06 only) Suffix -V7
- Vent Flange 3/4" ASME (pressure rating same as the process flange, NBK-03/06 only) Suffix -V8
- Vent Flange 1" ASME (pressure rating same as the process flange, NBK-03/06 only) Suffix -V9
- Vent Valve (1/2" NPT max temp 250 °F, NBK-03/06 only) Suffix -V2

### **Options - Bottom Bypass Tube Connections**

- Without Drain Plug (for NBK-03/06/07, standard for NBK-10/31/32) Suffix -D0
- With Drain Plug (for NBK-10/31/32, standard for NBK-03/06/07) Suffix -DN
- Flange Connection 2" ASME with Drain Plug 1/2" NPT (pressure rating same as the process flange) Suffix -DA
- Flange Connection 2" ASME without Drain Plug (pressure rating same as the process flange) Suffix -DD
- Drain Flange 1/2" ASME (pressure rating same as the process flange, NBK-03/06 only) Suffix -E7
- Drain Flange 3/4" ASME (pressure rating same as the process flange, NBK-03/06 only) Suffix -E8
- Drain Flange 1" ASME (pressure rating same as the process flange, NBK-03/06 only) Suffix -E9
- Drain Valve (1/2" NPT max temp 250 °F, NBK-03/06 only) Suffix -F2
- Drain Valve Horizontal Mount (1/2" NPT max temp 250 °F, NBK-03/06 only) Suffix -D2

### **Options - Process Connections**

- 1x Process Connection Side, 1x Process Connection Vertical on the Top (NBK-03/06/07/10 only) Suffix -ST
- 1x Process Connection Side, 1x Process Connection Vertical on the Bottom (NBK-03/06/07/10 only) Suffix -TS
- 2x Process Connections Vertical (NBK-03/06/07/10 only, up to 1") Suffix -TT

### **Options - Scales** (ball indicators are always delivered with scales) (specify units: inches or cm, & mounting: left or right side of the indicating rollers)

- Laser Etched Aluminum (-40...300 °F media temperature) Suffix -M2      Specify:      Inches      cm
- Engraved Aluminum (-40...750 °F media temperature) Suffix -M1      Specify:      Left      Right
- Scale Made of 304 Stainless Steel (only with ball display option KP/KM/KF, standard on KG) Suffix -MV

### **Options - Heat Jacket** (ASME Class 300 lb Flanges upon request)

- Heat Jacket 1/2" ASME 150 lb (NBK-03/06/07/10 only) Suffix -LA
- Heat Jacket 3/4" ASME 150 lb (NBK-03/06/07/10 only) Suffix -LB
- Heat Jacket 1" ASME 150 lb (NBK-03/06/07/10 only) Suffix -LC
- Heat Jacket 1-1/4" ASME 150 lb (NBK-03/06/07/10 only) Suffix -LD

### **Options - Electrical Outputs**

Option M with Junction Box at Bottom, Suffix -MU

Option M with Heat Shield & Junction Box at 4" Distance (Max. Temp. 570°F) Suffix -MS

Option M with Heat Shield & Junction Box with 16.4' Silicone Cable (Max. Temp. 750°F) Suffix -MK

### **Options - Display**

Aluminum Housing with LED Display, Bottom Connection (only with transmitter option A) Suffix -AE

Aluminum Housing with LCD Display, Bottom Connection (only with transmitter option A) Suffix -AC

Aluminum Housing with LED Display, Bottom Connection (only with transmitter option H) Suffix -HE

Aluminum Housing with LCD Display, Bottom Connection (only with transmitter option H) Suffix -HC

Indicating Unit ADI-1 with Bargraph & Digital Display (only with transmitter options T or M), Suffix -C

### **Options - Additional**

Connection Flange for multi-part design (split roller/split scale, not possible with transmitter) Suffix -A

Bracing Plate Centered Between Process Connections (required for lengths above 16.4') Suffix -HL

Bracing Flange Centered Between Process Connections (required for lengths above 16.4') Suffix -HF

Armaflex-insulation (heat coefficient 0.025 kcal/m °C, to 220°F) Suffix -K

### **Tests/Certificates**

Radiographic Examination (DIN 54 111 T1) Suffix -P

Dye Penetration Test (DIN EN 571-1) Suffix -Q

Pressure Test with Water (1.5x Flange Class Rating) Suffix -X

3.1 Sketch (acc. EN 10204) Suffix -Z

Material Certification (acc. NACE MR 0103/ISO 15156 (MR0175), declaration of conformance) Suffix -MR

Positive Material Identification (PMI) Suffix -WV

Oil and Grease Free, Suffix -SF

### **Other Options / Custom Configurations / Special Requirements:**