



## Y(N) Series All Stainless Steel Pressure Gauge

### Y(N)03BF



Bottom Connection, Direct Mounting



Center Back Connection, Panel Mounting

### General Introduction

Y(N)03BF all stainless steel pressure gauge is characterized by excellent shock resistance. The nominal size is 100mm, 150mm, 160mm. It is ideal to measure the pressure of liquid, gas and steam that is not easy to crystallize, solidify or corrode the stainless steel. In the situations of intense mechanical vibrations or severe medium oscillations, it can provide stable indications and clear readings. Y(N)03BF is widely used in heavy machinery, mining machine, hydraulic equipment, petroleum gas, refinery, chemical, metallurgical engineering, electric power, etc.

### Working Principle

The instrument relies on internal filling of damping fluid (such as silicone oil or glycerin), assembly of damping tubes, damping discs, and damping screws, based on the structural principle of the Y series pressure gauge. These measures overcome the impact damage caused by severe pulsations of the medium and environmental vibrations to the pressure gauge, ensuring measurement accuracy and prolonging the instrument's service life.

### Standard Specifications

Production Standard: EN837-1  
Measuring range: -0.1~250MPa  
Ambient temperature: -40~60 °C  
Dial size: 100, 150, 160(mm)  
Measuring element: Bourdon tube, 304ss  
Case material: 304ss or 316ss  
Movement material: 304ss  
Connection material : 304ss or 316ss

Dial: Aluminum, white background with black letters  
Window: Safety glass  
Pointer: Fixed, aluminum, black  
Pointer stop pin: at the zero position  
Ingress Protection: IP65  
Accuracy: 1.0%, 1.6%  
Pressure limitation: 75% Full scale  
Over pressure protection: 1.2 full scale for 15 seconds



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### Y(N)03BF Model Selection Table

Y(N)03BF: "N" means liquid filled. With liquid, model number starts with YN03BF. Without liquid, model number starts with Y03BF

#### Dial Size

100	100mm (4")
150	150mm
160	160mm(6")

#### Mounting Way (Refer to Attachment 1 for drawings)

A	Bottom Connection, Direct Mounting (100, 150, 160)
G	Lower Back Connection, Direct Mounting (100,150,160)
H	Lower Back Connection, Panel Mounting (100,150)
I	Lower Back Connection, Bracket Mounting (100)

#### Case Material

1	304ss	Standard (MOQ 1 Piece)
2	316ss	MOQ 100 pcs

#### Fill Liquid or not

N	Dry (Standard)
F1	Fill Silicon Oil
F2	Fill Glycerine

#### Accuracy

1A	1.0
A	1.6

#### Process Connection

1	1/4"NPT(M)
2	1/2"NPT(M)
0	Other size or standard to be advised by customer_____

#### Connection Material

M1	304ss
M2	316ss
N	Other material to be advised by customer_____



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#### Measuring Range

XXX	Refer to Measuring Range (on page 3~4) or inform by customer
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#### Other Request

A	Customized logo
B	Blow-out disc (only mounting way A available)
C	316ss bourdon tube (MOQ 100pcs)
D	Adjustable pointer
E	Other request from customer

**Model Selection Example: YN03BF-100-A-1-N-1A-2- M1-0~10MPa-A**

#### Measuring Range

bar	kg/cm <sup>2</sup>	psi	kPa	MPa
0~0.6	0~0.6	0~10	0~60	0.06
0~1	0~1	0~15	0~100	0~0.1
0~1.6	0~1.6	0~25	0~160	0~0.16
0~2.5	0~2.5	0~35	0~250	0~0.25
0~4	0~4	0~60	0~400	0~0.4
0~6	0~6	0~90	0~600	0~0.6
0~10	0~10	0~150	0~1000	0~1
0~16	0~16	0~230	0~1600	0~1.6
0~25	0~25	0~360	0~2500	0~2.5
0~40	0~40	0~600	0~4000	0~4
0~60	0~60	0~900	0~6000	0~6
0~100	0~100	0~1500	0~10000	0~10
0~160	0~160	0~2300	0~16000	0~16
0~250	0~250	0~3600	0~25000	0~25
0~400	0~400	0~6000	0~40000	0~40
0~600	0~600	0~9000	0~60000	0~60
0~1000	0~1000	0~15000	0~100000	0~100
0~1600	0~1600	0~23000	0~160000	0~160
0~2500	0~2500	0~36000	0~250000	0~250



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bar	kg/cm <sup>2</sup>	psi	kPa	MPa
-1~0	-1~0	-15~0	-100~0	-0.1~0
-1~0.6	-1~0.6	-15~10	-100~60	-0.1~0.06
-1~1.5	-1~1.5	-15~25	-100~150	-0.1~0.15
-1~3	-1~3	-15~45	-100~300	-0.1~0.3
-1~5	-1~5	-15~75	-100~500	-0.1~0.5
-1~9	-1~9	-15~130	-100~900	-0.1~0.9
-1~15	-1~15	-15~220	-100~1500	-0.1~1.5
-1~24	-1~24	-15~350	-100~2400	-0.1~2.4
-1~39	-1~39	-15~570	-100~3900	-0.1~3.9

Note:1. Other pressure scales are available at request. Please contact for confirmation.

2. Max measuring range for 100mm or 150mm is 250 MPa. Max measuring range for 160mm is 100 MPa.