# **BS1 Direct Drive Pressure Gauges**

#### Overview

This gauge is designed without using gears, linkages or springs which could be the cause of wear of the movement. It can be used with variety of applications including electrical power plant and process application.

#### Features

#### ·Worry-free wear of movement due to friction without using gears, linkages or springs

\*To maximize performance, select appropriate full scale pressure range to meet the conditions below:

Normal operating pressure: The maximum operating pressure should not exceed three-quarters of full scale range.

Fluctuating pressure: The maximum operating pressure should not exceed two-thirds of full scale range.

Process media should be compatible with wetted parts. Refer to JIS B 7505-1 for details.

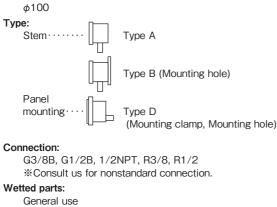
### Specifications 1

#### Media:

Gases and Fluids Case: Sealed Type The case is sealed to meet protection rating IP43

specified by JIS C 0920.

Size:



Bourdon tube C5191 Socket C3604 \*Available ranges up to 2MPa Corrosion resistant Bourdon tube SUS316 Socket SCS14

#### Pressure range:

0 to 0.1→0 to 50MPa -0.1 to 0→-0.1 to 1MPa



Operating temperature:	
-5 to 45°C	

Accuracy:

±1.5%F.S.

#### Throttle:

Throttle with filter is installed to protect from pressure pulsation. Since the throttle with filter is not suitable for viscous fluid measurement, throttle without filter or packing guide are optionally available. Specify when ordering.

#### Window:

# Tempered glass

Pressure relief disk: Pressure relief disk is used to protect window being blown up in case of high pressure leak happen from the failure of

bourdon tube. Caution To maintain appropriate performance, space wider than 10mm against wall behind installing gauge is needed. Modification toward the disk and plug, blocking out the disk are prohibited.

Scale angle:

Weight:

General use 230° (135° for ranges 0 to 0.1, -0.1 to 0MPa) Corrosion resistant 270°

(180° for ranges 0 to 0.1, -0.1 to 0MPa) Case material and finish:

# ADC12·Black

Treatment: (Optional)

Approx. 1.8kg

Use No Oil & Water ····Oil/Water used in manufacturing the gauges had been flushed out & no oil/water residue remained inside its wetted parts.

# **M NAGANO KEIKI**

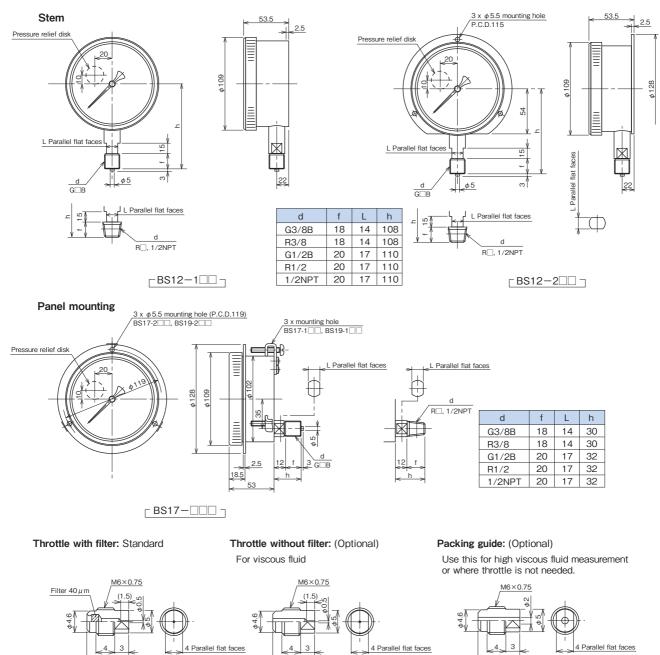
# Specifications2

#### Minor graduation:

Pressure range MPa	Minor graduation MPa	Pressure range MPa	Minor graduation MPa
0 to 0.1	0.005	0 to 15	0.5
0 to 0.2	0.005	0 to 25	0.5
0 to 0.3	0.01	0 to 35	1
0 to 0.4	0.01	0 to 50	1
0 to 0.6	0.02		
0 to 1	0.02	-0.1 to 0	0.005
0 to 1.5	0.05	-0.1 to 0.1	0.005
0 to 2	0.05	-0.1 to 0.2	0.01
0 to 2.5	0.05	-0.1 to 0.3	0.01
0 to 3.5	0.1	-0.1 to 0.4	0.01
0 to 5	0.1	-0.1 to 0.6	0.02
0 to 7	0.2	-0.1 to 1	0.02
0 to 10	0.2		

## Dimensions

Unit: mm



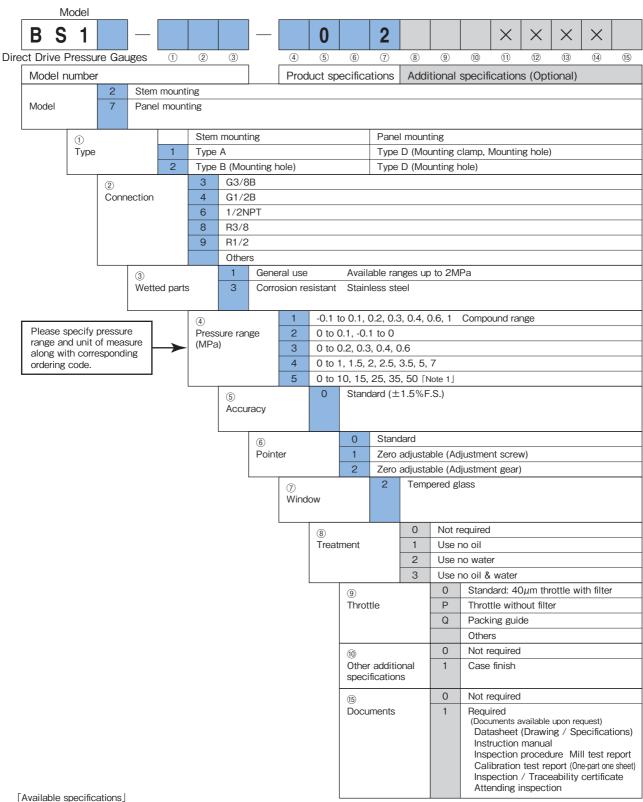
Shown is G thread. R (NPT) is also available.

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# **BS1** Direct Drive Pressure Gauges

Model number configuration Please specify the model number, each specs and the range for ordering.



 Note 1] Ranges 2.5MPa and above come standard with corrosion resistant.

 •Scale angle: General use
 230°, 135° (0.1MPa)

 Corrosion resistant
 270°, 180° (0.1MPa)

\* Specify code "X" to refer N/A