# GH High Pressure Gauges

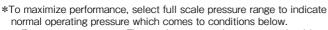
### Overview

This is a pressure gauge for high pressure application, exceeding a range of 100MPa.

Easy pressure reading is possible and simple handling is assured.

#### **Features**

- This pressure gauge is applicable for the high pressure measuring in a range of 150MPa to 700MPa
- · In the event of burst of pressure sensing element damage, enclosure assures safety construction that pressure is released from back side.
- · Pressure sensing element and socket utilize high-tensile steel to withstand high pressure measurement with high accuracy.
- This pressure gauge can be applied to air pressure, hydraulic pressure, chemical industry and other high pressure measuring.



For constant pressure: The maximum operating pressure should not exceed one-half the full-scale range.

For fluctuating pressure, installment pressure valve is recommended to adjust at slight pointer fluctuation.

Select appropriate wetted parts compatible with process fluid (gas and liquid) which the gauge will be subjected.



#### Specifications

#### Media:

Gas or liquid\*

\*For the pressure range 300MPa and above, high-tensile steel is utilized for wetted parts. When process media includes water (or moisture), strength of wetted material is weakened due to hydrogen brittleness. Avoid that situation.

#### Size:

 $\phi$ 150,  $\phi$ 200

Mounting: Stem····

Type B (Mounting hole)

Panel · · · · Type D (Mounting hole)

Connection:

G1/2B, G1/2 female

\*Consult us for nonstandard connection.

Wetted parts:

SUS316L or high-tensile steel Socket

(Depending on range)

SUS316L or high-tensile steel Element

(Depending on range)

Pressure range:

0 to 150→0 to 700MPa

Operating temperature range:

-5 to 45°C

#### Accuracy:

 $\pm 1.5\%$  F.S. or  $\pm 2.0\%$  F.S. (Depending on range)

#### Scale angle:

230° or 270° (Depending on range)

#### Case material · finishing:

AC7A · Black

#### Treatment: (Optional)

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

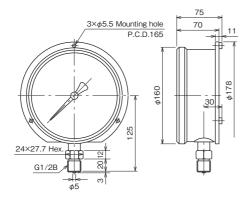
#### Accuracy · Scale angle · Wetted parts:

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Pressure range	Accuracy	Scale	Wetted parts									
MPa	%F.S.	angle	Element	Socket								
0 to 150 to 200	±1.5	270°	SUS316	SUS316								
0 to 300 to 400 to 500 to 600	±2	230°	high-tensile steel	high-tensile steel								
0 to 700												

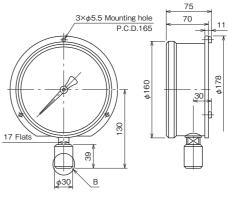
High Pressure Gauges

# Dimensions 1

#### φ150 Stem

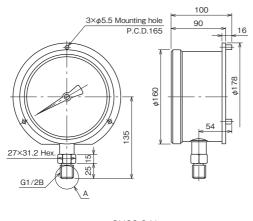


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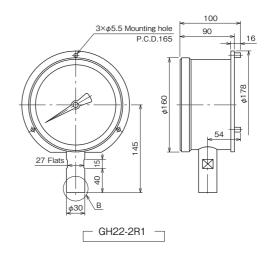


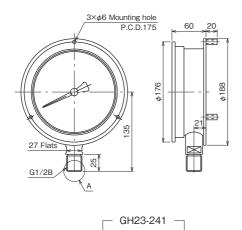
Unit: mm

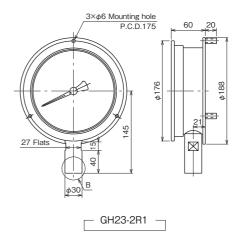
┌ GH21-2R1 ─



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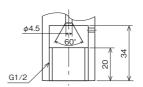


#### [Detail of connection]

A part



B part



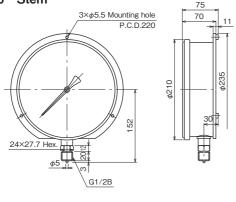
High Pressure Gauges

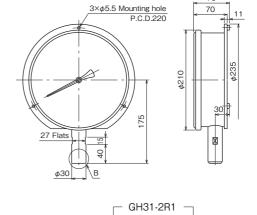
# Dimensions 2

Unit: mm

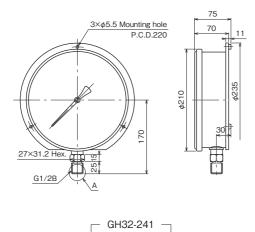
70

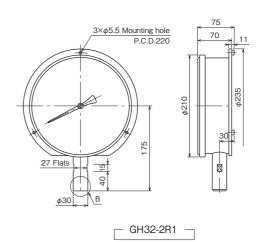


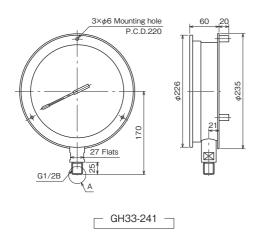


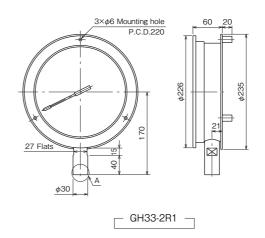


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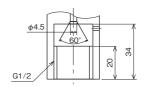


#### [Detail of connection]

A part

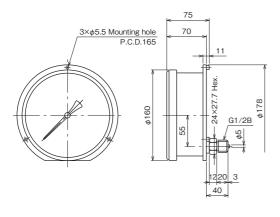


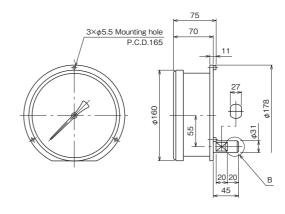
B part



Dimensions 3

# φ150 Back connection

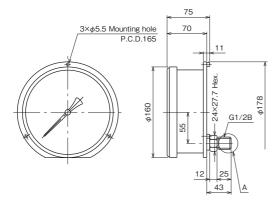


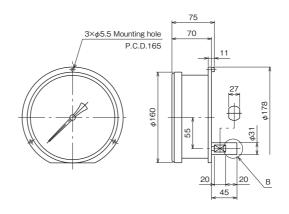


Unit: mm

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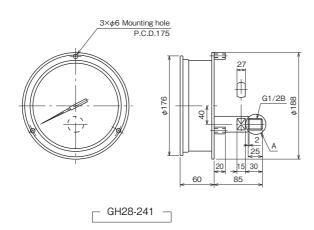


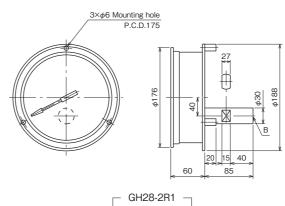




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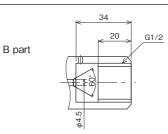




#### [Detail of connection]

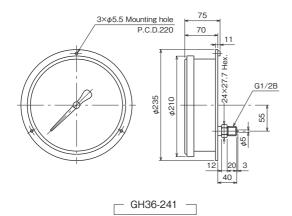
A part

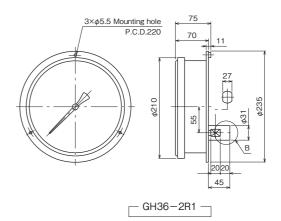


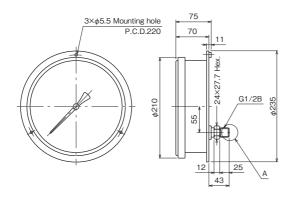


Dimensions 4

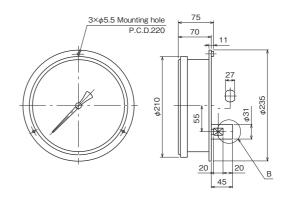
## φ200 Back connection



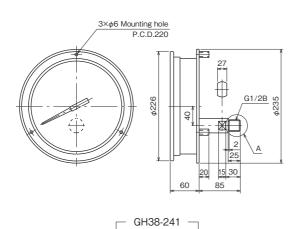


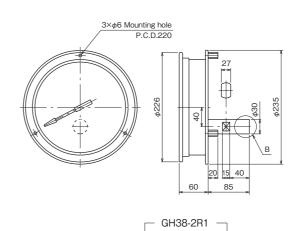


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GH37-2R1 -

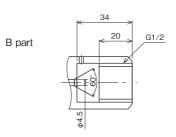




#### [Detail of connection]

A part







# **Model number configuration** Please specify for ordering the model number and each specs.

M	lodel																		
G H			—	2		1	_		0	X	×		X	X	×	×	X	×	
High Pres	sure G	auges	3	1	2	3		4	(5)	6	7	8	9	10	11)	(12)	13	(14)	(15)
Model number							Prod	duct specifications   Additional specifications							s (Opt	ional)			
			Size		Mount	ing			Pressure range (MPa)										
Model	2	1	φ150	)	Stem	Туре В	(Mou	nting h	ole) 0 to 150, 200										
	2	2	φ150	)	Stem	Туре В	(Mou	nting h	hole) 0 to 300, 400, 500, 600										
	2	3	φ150	)	Stem	Stem Type B (Mounting hole) 0 to 700  Panel Type D (Mounting hole) 0 to 150, 200													
	2	6	φ150	)	Panel														
	2	7	φ150	)	Panel	Panel Type D (Mounting hole) 0 to 300, 400, 500, 600													
	2	8	φ150	)	Panel	Type D	(Mou	nting h	ole)	0 to	700								
	3	1	φ200	)	Stem	Туре В	(Mou	nting h	ole)	0 to	150,	200							
	3	2	φ200	)	Stem	Туре В	(Mou	nting h	ole)	0 to	300,	400, 50	00, 600	)					
	3	3	φ200	)	Stem	Туре В	(Mou	nting h	ole)	0 to	700								
	3	6	φ200	)	Panel	Type D	(Mou	inting h	ole)	0 to	150,	200							
	3	7	φ200	)	Panel	Type D	(Mou	nting h	ole)	0 to	300,	400, 50	00, 600	)					
	3	8	φ200	)	Panel	Type D	(Mou	inting h	ole)	0 to	700								
	① Moun	ting (T	ype)	2	Туре	B or Ty	pe D	(Mount	ing hole	e)									
	2				4	4 G1/2B													
		Conn	ection		R	R G1/2 female													
						Others	'S												
			3			1	Elem	lement: SUS316 Socket: SUS316				316		(GH21, 26, 31, 36)					
			Wett	ed parts	;		Elemer		Element: High-tensile steel			Socket	ket: High-tensile steel			(GH22, 27, 32, 37)			
							Elem		1			Socket	: High-	tensile	steel	(GH23, 28, 33, 38)			
	T				(MPa) 1 2 2 (MPa) 3			0 to 150, 200						(GH21, 26, 31, 36)					
	Please specify pressure range and unit of measure			0 to 300, 400						(GH22, 27, 32, 37)									
	along with corresponding		0 to 500, 600							(GH22, 27, 32, 37)									
ordering	code.							4	0 to 7								23, 28,	33, 38	)
						⑤ Accuracy			0 Standard ±1.5%F.S. (0 to 150, 200MPa) Others ±2.0%F.S.										
								8		8		0	Not required						
							Treat	ment		1	Use no oil (Only available for pressure range 150MPa)					Pa)			
													Use no water						
								(§) Documents			0 Not required				d c				
											1 Required (Documents available upon re Datasheet (Drawing / Sp Instruction manual Inspection procedure Mi Calibration test report (Or Inspection / Traceability Attending inspection					ecificat II test ro ne-part or	eport ne sheet)		

 $<sup>*\,\</sup>mbox{Specify code}$  "X" to refer N/A