

# Ammonia Service Pressure Gauges (181P Series)

## Applications

- Ammonia system

## Pressure Limitation

- Steady : 3/4 of full scale value  
(recommendation : 25% to 75% of full scale)
- Fluctuating : 2/3 of full scale value  
(recommendation : lower 50% of full scale)
- Short time : full scale value

## Operating Temperature

- Ambient : -20 ~ 65°C
- Media (Fluid) : -10 ~ 80°C



## Standard Specification Overview

### Dial Size

- 75mm [3"], 100mm [4"]

### Reference Accuracy

- 75mm, 100mm :  $\pm 1.5\%$  of Full Scale

### Scale Ranges

- 75mm, 100mm : Compound [-0.1 ~ 1.0, 1.5, 2.0 MPa]  
\* For more information, see the ordering information table.

### Standard Process Connection

- 75mm, 100mm : PF [1" G" in ISO] 3/8"

### Material

- Case : Black Finished Steel
- Ring (Cover) : Black Finished Steel
- Window : Glass
- Pointer : Aluminum Alloy, Black Painted
- Connection : 316 SS
- Element (Bourdon Tube) : 316 SS
- Movement : Brass
- Dial Plate : White Aluminum with Black Graduations

### Optional Extra

- Test Report by Manufacturer
- Test Report by KOLAS (ILAC-MRA)

## Special Notes

1. This series has been approved by KS B 5305 (Korean Standard).

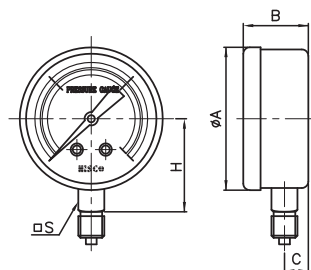
## Ordering Information for 181P Series

● = Standard Products    ▲ = Available    NA = Not Available

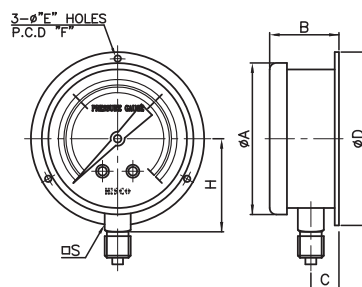
Model	Description	Case & Ring	Wetted Parts	
181P	Ammonia Service Pressure Gauges	Black Finisehd Steel	316 SS	
<b>Code</b>	<b>Dial Size</b>	<b>Accuracy</b>	<b>181P</b>	
30	75mm [3"]	± 1.5% of F.S.	●	
40	100mm [4"]	± 1.5% of F.S.	●	
<b>Code</b>	<b>Mounting Type</b>		<b>30</b>	<b>40</b>
A	Bottom Connection without Mounting Flange		●	●
B	Bottom Connection with Back Mounting Flange		●	●
U	Lower Back Connection with "U" Clamp Mounting Bracket		●	NA
K	Lower Back Connection with 3 Clamp Mounting Bracket		NA	●
<b>Code</b>	<b>Process Connection Style</b>		<b>30</b>	<b>40</b>
3	PF ("G" in ISO Standard)		●	●
X	Others		☞	☞
<b>Code</b>	<b>Process Connection Size</b>		<b>30</b>	<b>40</b>
D	3/8"		●	●
<b>Code</b>	<b>Pressure Range</b>		<b>30</b>	<b>40</b>
007	-0.1 ~ 1.0 MPa		●	●
008	-0.1 ~ 1.5 MPa		●	●
009	-0.1 ~ 2.0 MPa		●	●
* MPa (SI Unit) is the standard dial scale but others are available upon request.				
<b>Code</b>	<b>Applicable Accessory Options</b>			
J0	Not Apply			
J1	Adapter			
J2	Gauge Unions			
J3	Syphon Tubes			
J4	Pulsation Dampeners			
J5	Pressure Snubber			
J7	Gauge Savers (Gauge Protectors)			
J8	Safety Kloser			
J9	Manifold Valves			
<b>Code</b>	<b>Options</b>		<b>30</b>	<b>40</b>
Test Reports				
T1	Test Report by Manufacturer		▲	▲
T2	Test Report by KOLAS (ILAC-MRA)		▲	▲
Sample Model Selection : 181P30A3D008J0				
* The standard specification and price are subject to change without prior notice.				

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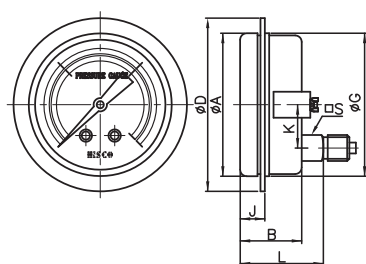
TYPE-A



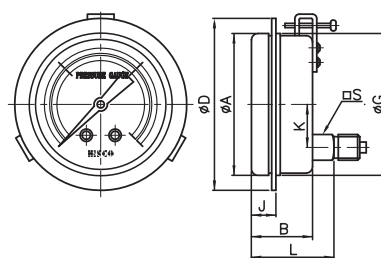
TYPE-B



TYPE-U



TYPE-K



Code	Dial Size	(Available Type)	A	B	C	K	D	E	F	G	H	L	J	S
30	ø75	A,B,U	78	34	13	22	98	4.5	87.5	80	49	48	16	17
40	ø100	A,B,K	103	34	13	32	128	4.5	115	104	66	44	16	17

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