

Industrial Low Pressure Gauges(411P Series)

Applications

- Low pressure measuring
- Chemical & petrochemical
- Power generation
- Furnace or air and gas pressure in tank

Working Pressure

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 : 130% of full scale value(over range protection)

Operating Temperature

Ambient : -20 ~ 60°C

Media(Fluid) : -20 ~ 80°C



Standard Specification Overview

Dial Size

75mm(3"), 100mm(4") & 150mm(6")

Reference Accuracy

75mm(3"), 100mm(4") & 150mm(6") : $\pm 1.5\%$ of Full Scale

100mm(4") & 150mm(6") : $\pm 1.0\%$ of Full Scale(Optional)

Scale Ranges

See the ordering information table.

Pressure Connection

75mm(3") & 100mm(4") : PT("R" in ISO) 3/8"

150mm(6") : PT("R" in ISO) 1/2"

Degree of Protection

IP 65

Material

Case : 304 SS

Ring(Cover) : 304 SS

Window : Glass

Pointer : Aluminum Alloy, Black Painted

Connection : 316 SS

Element : 316 SS

Movement : 316 SS

Dial Plate : White Aluminum with Black Graduations

Optional Extra

Code T1 : Test Report by Manufacturer

Code T2 : Test Report by KOLAS(ILAC-MRA)

Code W1 : Laminated Safety Glass

Code S6 : 316 SS Case & Cover(Ring)

Code S7 : 316L SS Connection Part

Code C1 : Cleaning Service(USE NO OIL)

Code C2 : Supersonic Cleansing Service

Code F2 : Liquid Filled(Glycerine)

Code F4 : Liquid Filled(Silicone)

Code AC : High Accuracy($\pm 1.0\%$ of F.S.) Calibration

Code R1 : Throttling Screw(Restriction Orifice)

Code P2 : Protection Cover(Polycarbonate)

Special Notes

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

Ordering Information for 411P Series

Model	Description	Case & Ring	Wetted Parts		
411P	Industrial Low Pressure Gauges	304 SS	316 SS		
Code	Dial Size	Accuracy	411P		
30	75mm(3")	± 1.5% of F.S.	■		
40	100mm(4")	± 1.5% of F.S.	■		
60	150mm(6")	± 1.5% of F.S.	■		
Code	Mounting Type		30	40	60
A	Bottom Connection without Mounting Flange		■	■	■
B	Bottom Connection with Back Mounting Flange		■	■	■
L	Lower Back Connection without Mounting Flange		■	■	■
J	Lower Back Connection with 3-hole Front Mounting Flange		■	■	■
U	Lower Back Connection with "U" Clamp Mounting Bracket		■	■	■
Code	Process Connection Style		30	40	60
2	PT("R" in ISO Standard)		■	■	■
3	PF("G" in ISO Standard)		★	★	★
4	NPT		★	★	★
X ⁽¹⁾	Others		☎	☎	☎
Code	Process Connection Size		30	40	60
C	1/4"		★	★	★
D	3/8"		■	■	★
F	1/2"		NA	★	■
Code	Pressure Range		30	40	60
035	-30 kPa ~ 0		■	■	■
037	-20 kPa ~ 0		■	■	■
038	-15 kPa ~ 0		■	■	■
039	-10 kPa ~ 0		■	■	■
041	-500 Pa ~ 0		■	■	■
042	-400 Pa ~ 0		■	■	■
043	-300 Pa ~ 0		■	■	■
045	-200 Pa ~ 0		■	■	■
047	-100 Pa ~ 0		■	■	■
051	-25 ~ 25 kPa		■	■	■
052	-20 ~ 20 kPa		■	■	■
053	-15 ~ 15 kPa		■	■	■
054	-10 ~ 10 kPa		■	■	■
056	-500 ~ 500 Pa		■	■	■
058	-300 ~ 300 Pa		■	■	■
059	-250 ~ 250 Pa		■	■	■
060	-200 ~ 200 Pa		■	■	■
062	-100 ~ 100 Pa		■	■	■
063	-50 ~ 50 Pa		■	■	■
084	0 ~ 100 Pa		■	■	■
086	0 ~ 200 Pa		■	■	■
087	0 ~ 300 Pa		■	■	■

088	0 ~ 400 Pa	■	■	■
089	0 ~ 500 Pa	■	■	■
092	0 ~ 10 kPa	■	■	■
093	0 ~ 15 kPa	■	■	■
094	0 ~ 20 kPa	■	■	■
095	0 ~ 25 kPa	■	■	■
096	0 ~ 30 kPa	■	■	■
097	0 ~ 35 kPa	■	■	■
098	0 ~ 40 kPa	■	■	■
099	0 ~ 50 kPa	■	■	■

* kPa(SI Unit) is the standard dial scale but others are available upon request.

Code	Applicable Accessory Options
J0	Not Apply
J1	Adapter
J2	Gauge Unions
J3	Syphon Tubes
J8	Instrument Valves

Code	Options	30	40	60
Test Reports				
T1	Test Report by Manufacturer	★	★	★
T2	Test Report by KOLAS(ILAC-MRA)	★	★	★
Material Option				
W1	Laminated Safety Glass	NA	★	★
S6	316 SS Case & Cover(Ring)	NA	★	★
S7	316L SS Connection Part	NA	★	★
Other Option				
C1	Cleaning Service(USE NO OIL)	★	★	★
C2	Supersonic Cleansing Service	★	★	★
F2	Liquid Filled(Glycerine)	NA	★	★
F4	Liquid Filled(Silicone)	NA	★	★
AC	High Accuracy(± 1.0% of F.S.) Calibration	NA	★	★
R1	Throttling Screw(Restriction Orifice)	★	★	★
P2	Protection Cover(Polycarbonate)	NA	★	NA

Sample Model Selection : 411P30A2D092J0

Note 1. Other connection styles are available on request.

Note 2. On selecting of accessory option, excluding J0, go to Accessory Model(PA XXX) for the detail selection.

■ = Standard Products ★ = Available NA = Not Available

* The standard specification and price are subject to change without prior notice.

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TYPE-A	
TYPE-B	TYPE-L
TYPE-J	TYPE-U

Code	Dial Size	(Available Type)	A	B	C	D	E	F	G	H	L	K
30	ø75	A,B,[L,J,U]	87	43[41]	16	-	5.5	94.5	79	56.5	60	27
40	ø100	A,B,[L,J,U]	115	49[47]	17	137	5.5	124	104	78	73.5	36
60	ø150	A,B,L,J,U	168	63	19	186	6.5	174	156	102	89.5	50