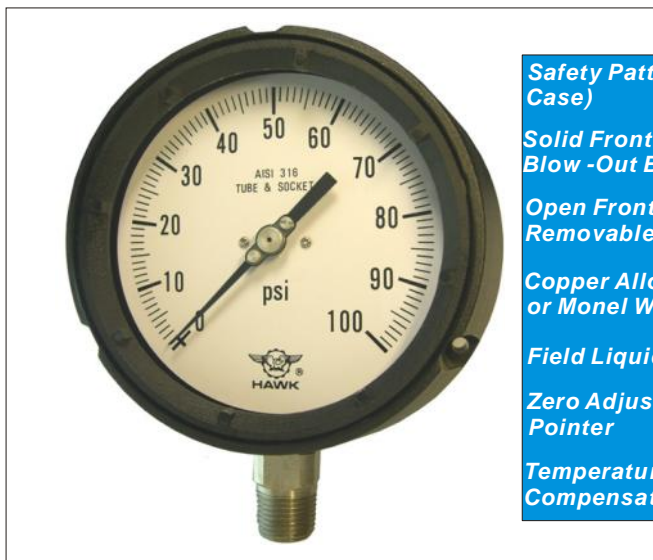


# All Stainless Steel Pressure Gauge Bayonet Ring(Open Front)



**Safety Pattern(Safety Case)**  
**Solid Front / Blow -Out Back**  
**Open Front Removable Ring**  
**Copper Alloy , 316SS or Monel Wetted Parts**  
**Field Liquid Fillable**  
**Zero Adjustable Pointer**  
**Temperature Compensated Element**

F-11L and F-11B solid front process gauges with phenolic case are widely used for petrochemical and chemical processing industries. There is a solid wall between pressure sensing element and the window. This design provides better safety for monitoring the gauges in the event of the gauge failure. This gauge is available in bottom connection(F-11L) or lower back connection(F-11B).F-11L and F-11B feature a filling vent. This special design lets users quick and convenient to fill dry gauges without any special tools or fixtures. The liquid filling may be glycerine, silicone, or fluoride.

## F-11L, F-11B Series

### Typical Applications:

**Petrochemical and chemical processing offshore oil platforms&gas industries Industrial OEM equipments Power generating stations Compressors Pneumatic systems Pump applications Food processing plants Refrigeration and HVAC systems Construction and agriculture equipments Energy and water treatment plants**

## Specifications

### Operating:

Steady: 100%\*full scale value  
 Pulsation: 90%\*full scale value  
 Sudden: 150%\*full scale value

The appropriate operating range falls in the middle half of the gauge(25% to 75% of full scale). If you choose the unsuitable range, the fatigue of bourdon tube may be resulted. FAYIN Supplies a wide selection of range from vacuum to 20000 PSI including compound range.

### Temperature limit:

**Ambient:** -40 to 80 °C(Dry Gauge)  
 -10 to 65 °C(Glycerine Filled Gauge)  
 -50 to 80 °C(Silicon Filled Gauge)

**Media:** max 60 °C-Brass, 125 °C-SS(Standard)  
 300 °C(Optional)

### Temperature effect:

Accuracy of measurement will be effected by the temperature change. This inaccuracy may as high as  $\pm 0.3\%$  for 12 °C temperature change.

### Dial Size:

4 1/2"(115mm)

### Case&Ring

Phenol, bezel ring threaded with a gasket

### Socket

Brass, 316 Stainless Steel or Monel K400

### Movement

Stainless steel movement with overload and underload stops-standard, silicon dampened movement on request

### Bourdon Tube:

Brass, 316-Stainless Steel or Monel K500  
 30"Hg(Vac) to 1500PSI...C-type  
 2000 to 20000PSI...Helical type

### Window:

Tempered safety glass-standard Polycarbonate or laminated safety glass-optional

### Pointer:

Anodized aluminum with black finish

### Accuracy:

$\pm 0.5\%$  of span  
 (Grade 2A to ASME B40.1)

### Zero-Adjustment:

Micro-adjustable pointer

### Scale:

PSI, kPa, Mpa, bar, kg/cm<sup>2</sup>, inHg, cmHg, torr, mmHg (single or dual scale)

### Connection:

1/2", 3/8", 1/4" NPT standard, JIS, DIN, M14\*1.0 and M20\*1.5 available

### Mounting:

Stem, surface, flush mounting

### Weatherproof:

NEMA 4/4X(IP65) enclosure

# All Stainless Steel Pressure Gauge Bayonet Ring (Open Front)



## Features

Solid front with pressure relief back to ASME B40.1 standard that will reduce the possibility of window failure and projection of parts outward through the front of the gauge.

The stainless Steel rotary geared movement reduces friction and corrosion which assures a smooth-moving pointer. Max and Min stop pin can be offered to protect against damage caused by sudden vacuum and over-pressure.

Type F-11L and F-11B are equipped with a pressure compensating diaphragm installed in the casing back and connected to the outer atmosphere by compensated hole.

## Option:

**TSG**-Tempered safety glass lens

**RFS**-Refrigerant Scale

**RES**-Receiver Scale 3.... 15 PSI

**MP**-Movement with PTFE coated gear

**SS**-Threaded snubber in socket

**FSL**-Silicone Filled

**CFO**-Cleaned for oxygen service

**LSG**-Laminated safety glass lens

**AS**-Ammoniated Scale

**RS**-Retard Scale

**MAP**-Maximum pointer

**MT**-Movement with Titanium coated gear

**FGL**-Glycerine Filled

**COC**-Certification of calibration

**PW**-Polycarbonate lens

Customer dial

**ALS**-Altitude Scale

**DM**-Dampened movement

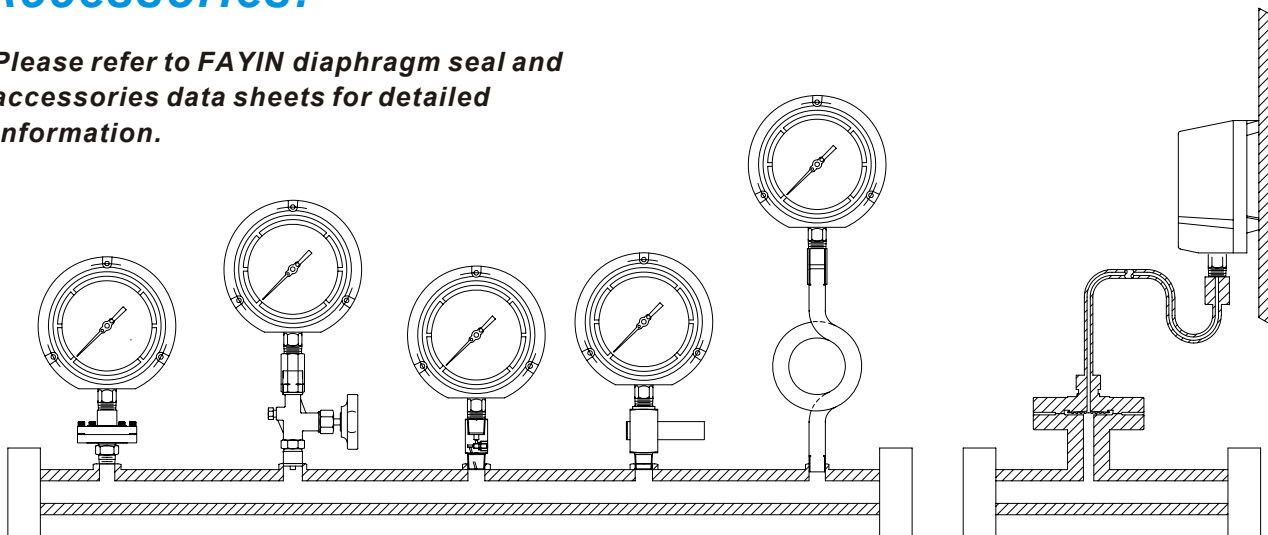
**FHL**-Halocarbon Filled

9/16" Autoclave connection

**EWC**-Electrical alarm contact

## Accessories:

Please refer to **FAYIN diaphragm seal and accessories data sheets for detailed information.**



**Direct  
actuated  
diaphragm  
seal**

**Needle  
valve**

**Pulsation  
dampener**

**Over-pressure  
Siphon**

**Removing  
actuated  
diaphragm  
seal**

# All Stainless Steel Pressure Gauge Bayonet Ring(Open Front)



## Pressure Range:

Pressure Range		A38	0/20kg/cm <sup>2</sup> /psi	A77	0/100000kPa/psi	R34	0/1600 bar
Code	Dial Range	A39	0/25kg/cm <sup>2</sup> /psi	A78	0/140000kPa/psi	M1	0/0.04 Mpa
A1	0/15 PSI	A40	0/28kg/cm <sup>2</sup> /psi	A79	0/1bar/psi	M2	0/0.06 Mpa
A2	0/30 PSI	A41	0/30kg/cm <sup>2</sup> /psi	A80	0/2bar/psi	M3	0/0.1 Mpa
A3	0/60 PSI	A42	0/35kg/cm <sup>2</sup> /psi	A81	0/4bar/psi	M4	0/0.16 Mpa
A4	0/100 PSI	A43	0/40kg/cm <sup>2</sup> /psi	A82	0/7bar/psi	M5	0/0.20 Mpa
A5	0/160 PSI	A44	0/50kg/cm <sup>2</sup> /psi	A83	0/11bar/psi	M6	0/0.25 Mpa
A6	0/200 PSI	A45	0/60kg/cm <sup>2</sup> /psi	A84	0/14bar/psi	M9	0/0.4 Mpa
A7	0/300 PSI	A46	0/70kg/cm <sup>2</sup> /psi	A85	0/20bar/psi	M11	0/0.6 Mpa
A8	0/400 PSI	A47	0/84kg/cm <sup>2</sup> /psi	A86	0/28bar/psi	M13	0/1.0 Mpa
A9	0/500 PSI	A48	0/100kg/cm <sup>2</sup> /psi	A87	0/40bar/psi	M14	0/1.6 Mpa
A10	0/600 PSI	A49	0/140kg/cm <sup>2</sup> /psi	A88	0/70bar/psi	M15	0/2.0 Mpa
A11	0/800 PSI	A50	0/160kg/cm <sup>2</sup> /psi	A99	0/140bar/psi	M16	0/2.5 Mpa
A12	0/1000 PSI	A51	0/200kg/cm <sup>2</sup> /psi	A90	0/200bar/psi	M19	0/4.0 Mpa
A13	0/1500 PSI	A52	0/250kg/cm <sup>2</sup> /psi	A91	0/350bar/psi	M21	0/6.0 Mpa
A14	0/2000 PSI	A53	0/300kg/cm <sup>2</sup> /psi	A92	0/700bar/psi	M23	0/10 Mpa
A15	0/3000 PSI	A54	0/350kg/cm <sup>2</sup> /psi	A93	0/1000bar/psi	M24	0/16 Mpa
A16	0/5000 PSI	A55	0/400kg/cm <sup>2</sup> /psi	A94	0/1400bar/psi	M25	0/20 Mpa
A17	0/6000 PSI	A56	0/600kg/cm <sup>2</sup> /psi	R1	0/0.4 bar	M26	0/25 Mpa
A18	0/10000 PSI	A57	0/700kg/cm <sup>2</sup> /psi	R2	0/0.6 bar	M29	0/40 Mpa
A19	0/15000 PSI	A58	0/1000kg/cm <sup>2</sup> /psi	R3	0/1.0 bar	M31	0/60 Mpa
A20	0/20000 PSI	A59	0/1400kg/cm <sup>2</sup> /psi	R4	0/1.6 bar	M33	0/100 Mpa
A21	0/0.6kg/cm <sup>2</sup> /psi	A60	0/100kPa/psi	R5	0/2.0 bar	M34	0/160 Mpa
A22	0/1kg/cm <sup>2</sup> /psi	A61	0/200kPa/psi	R6	0/2.5 bar	G1	0/0.4 kg/cm <sup>2</sup>
A23	0/1.6kg/cm <sup>2</sup> /psi	A62	0/400kPa/psi	R9	0/4.0 bar	G2	0/0.6 kg/cm <sup>2</sup>
A24	0/2kg/cm <sup>2</sup> /psi	A63	0/700kPa/psi	R11	0/6.0 bar	G3	0/1.0 kg/cm <sup>2</sup>
A25	0/2.5kg/cm <sup>2</sup> /psi	A64	0/1100kPa/psi	R13	0/10 bar	G4	0/1.6 kg/cm <sup>2</sup>
A26	0/3kg/cm <sup>2</sup> /psi	A65	0/1400kPa/psi	R14	0/16 bar	G5	0/2.0 kg/cm <sup>2</sup>
A27	0/3.5kg/cm <sup>2</sup> /psi	A66	0/2000kPa/psi	R15	0/20 bar	G6	0/2.5 kg/cm <sup>2</sup>
A28	0/4kg/cm <sup>2</sup> /psi	A67	0/2800kPa/psi	R16	0/25 bar	G9	0/4.0 kg/cm <sup>2</sup>
A29	0/5kg/cm <sup>2</sup> /psi	A68	0/4000kPa/psi	R19	0/40 bar	G11	0/6.0 kg/cm <sup>2</sup>
A30	0/6kg/cm <sup>2</sup> /psi	A69	0/5600kPa/psi	R21	0/60 bar	G13	0/10 kg/cm <sup>2</sup>
A31	0/7kg/cm <sup>2</sup> /psi	A70	0/7000kPa/psi	R23	0/100 bar	G14	0/16 kg/cm <sup>2</sup>
A32	0/10kg/cm <sup>2</sup> /psi	A71	0/10000kPa/psi	R24	0/160 bar	G15	0/20 kg/cm <sup>2</sup>
A33	0/11kg/cm <sup>2</sup> /psi	A72	0/14000kPa/psi	R25	0/200 bar	G16	0/25 kg/cm <sup>2</sup>
A34	0/14kg/cm <sup>2</sup> /psi	A73	0/21000kPa/psi	R26	0/250 bar	G19	0/40 kg/cm <sup>2</sup>
A35	0/15kg/cm <sup>2</sup> /psi	A74	0/35000kPa/psi	R29	0/400 bar	G21	0/60 kg/cm <sup>2</sup>
A36	0/16kg/cm <sup>2</sup> /psi	A75	0/40000kPa/psi	R31	0/600 bar	G23	0/100 kg/cm <sup>2</sup>
A37	0/17.5kg/cm <sup>2</sup> /psi	A76	0/70000kPa/psi	R33	0/1000 bar	G24	0/160 kg/cm <sup>2</sup>

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Pressure Range		H9	0/40 mH <sub>2</sub> O	ACB	-30inHg/0/30psi	RC4	-1/+5 bar
G25	0/200 kg/cm <sup>2</sup>	H11	0/60 mH <sub>2</sub> O	ACC	-30inHg/0/60psi	RC5	-1/+9 bar
G26	0/250 kg/cm <sup>2</sup>	H13	0/100 mH <sub>2</sub> O	ACD	-30inHg/0/100psi	RC6	-1/+15 bar
G29	0/400 kg/cm <sup>2</sup>	H14	0/140 mH <sub>2</sub> O	ACE	-30inHg/0/150psi	RC7	-1/+24 bar
G31	0/600 kg/cm <sup>2</sup>	H141	0/160 mH <sub>2</sub> O	ACF	-30inHg/0/200psi	MC1	-0.1/+0.06 Mpa
G33	0/1000 kg/cm <sup>2</sup>	H15	0/200 mH <sub>2</sub> O	ACG	-30inHg/0/300psi	MC2	-0.1/+0.15 Mpa
G34	0/1600 kg/cm <sup>2</sup>	U7	0/40 ftH <sub>2</sub> O	ACH	-76cmHg/1kg/cm <sup>2</sup>	MC21	-0.1/+0.2 Mpa
K38	0/400 kPa	U9	0/60 ftH <sub>2</sub> O	ACI	-76cmHg/1.5kg/cm <sup>2</sup>	MC22	-0.1/+0.25 Mpa
K40	0/600 kPa	U11	0/100 ftH <sub>2</sub> O	ACJ	-76cmHg/2kg/cm <sup>2</sup>	MC3	-0.1/+0.3 Mpa
K42	0/1000 kPa	U12	0/140 ftH <sub>2</sub> O	ACK	-76cmHg/3kg/cm <sup>2</sup>	MC31	-0.1/+0.4 Mpa
K43	0/1600 kPa	U13	0/160 ftH <sub>2</sub> O	ACL	-76cmHg/5kg/cm <sup>2</sup>	MC4	-0.1/+0.5 Mpa
K44	0/2000 kPa	U14	0/200 ftH <sub>2</sub> O	ACM	-76cmHg/10kg/cm <sup>2</sup>	MC5	-0.1/+0.6 Mpa
K45	0/2500 kPa	U15	0/250 ftH <sub>2</sub> O	ACN	-76cmHg/15kg/cm <sup>2</sup>	MC51	-0.1/+0.7 Mpa
K48	0/4000 kPa	U18	0/400 ftH <sub>2</sub> O	ACO	-100/+100 kPa/psi	MC6	-0.1/+0.9 Mpa
K50	0/6000 kPa	U20	0/600 ftH <sub>2</sub> O	ACP	-100/+200 kPa/psi	MC7	-0.1/+1.5 Mpa
K52	0/10000 kPa	U22	0/1000 ftH <sub>2</sub> O	ACQ	-100/+400 kPa/psi	MC8	-0.1/+2.4 Mpa
K53	0/16000 kPa	Vacuum Range		ACR	-100/+700 kPa/psi	GC1	-1/+0.6 kg/cm <sup>2</sup>
K54	0/20000 kPa	Code	Dial Range	ACR1	-100/+1000 kPa/psi	GC2	-1/+1.5 kg/cm <sup>2</sup>
K55	0/25000 kPa	Av1	-30inHg/0	ACS	-100/+1400 kPa/psi	GC3	-1/+3 kg/cm <sup>2</sup>
K57	0/40000 kPa	Av2	-76cmHg/inHg/0	ACT	-100/+2100 kPa/psi	GC4	-1/+5 kg/cm <sup>2</sup>
K59	0/60000 kPa	Av3	-100kPa/inHg/0	ACU	-1/+1 bar/psi	KCY	-100/+60 kPa
K61	0/100000 kPa	Av4	-1bar/inHg/0	ACV	-1/+2 bar/psi	KCY1	-100/+150 kPa
K62	0/160000 kPa	RV1	-1 bar	ACW	-1/+4 bar/psi	KCY2	-100/+300 kPa
H1	0/4.0 mH <sub>2</sub> O	MV1	-0.1 Mpa	ACX	-1/+7 bar/psi	KCY3	-100/+500 kPa
H2	0/6.0 mH <sub>2</sub> O	GV1	-1 kg/cm <sup>2</sup>	ACY	-1/+10 bar/psi	KCY4	-100/+900 kPa
H3	0/10 mH <sub>2</sub> O	KVX	-100 kPa	ACZ	-1/+14 bar/psi	KCY5	-100/+1500 kPa
H4	0/16 mH <sub>2</sub> O	Compound Range		RC1	-1/+0.6 bar	KCY6	-100/+2400 kPa
H5	0/20 mH <sub>2</sub> O	Code	Dial Range	RC2	-1/+1.5 bar		
H6	0/25 mH <sub>2</sub> O	ACA	-30inHg/0/15psi	RC3	-1/+3 bar		

1. The other scales and ranges(DIN) are available in request.

2. Not all listed ranges and scales are in stock, Consult your distributors for available.



**F-11L(Bottom Connection)**

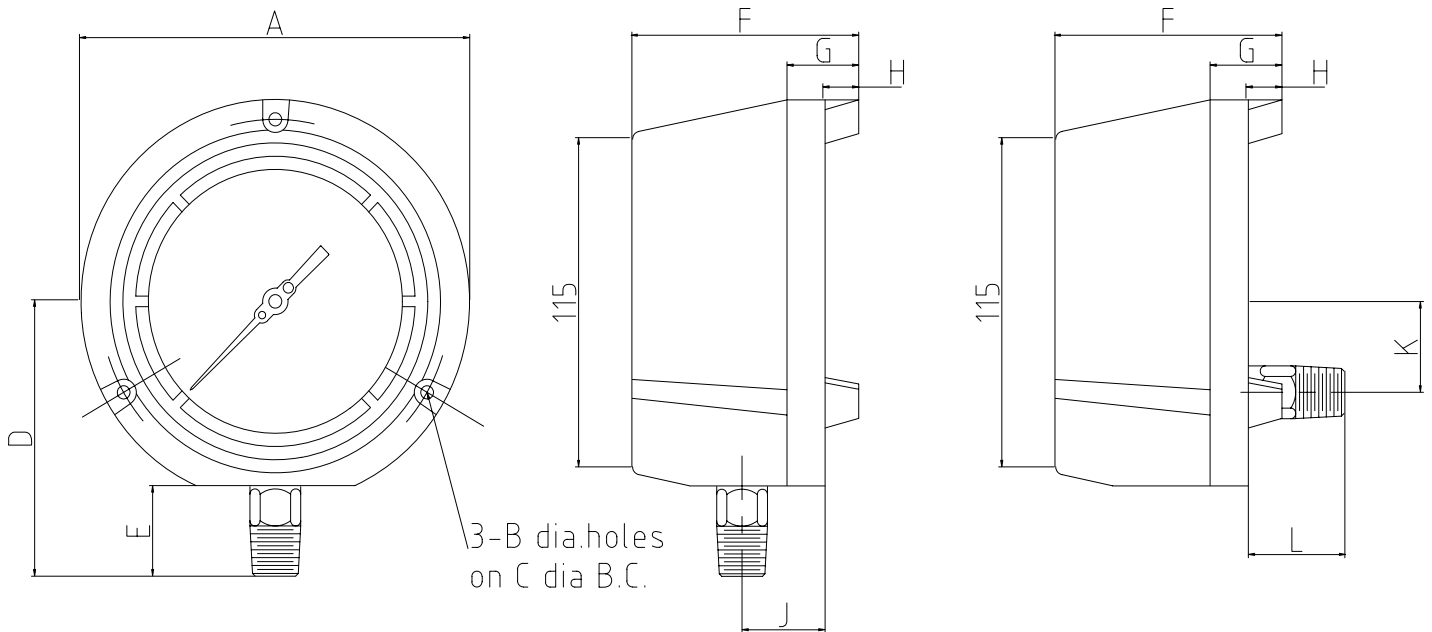


**F-11B(Lower Back Connection)**

# All Stainless Steel Pressure Gauge Bayonet Ring (Open Front)



## Dimensions:



**F-11L (Bottom Connection)**

**F-11B (Lower Back Connection)**

Type No:	A	B	C	D	E	F	G	H	J	K	L	Weight
<b>F-11L</b>	5.81" (148)	0.24" (6)	5.36" (137)	4.01" (102)	1.49" (38)	3.38" (86)	1.02" (26)	0.59" (15)	1.61" (41)	✕	✕	0.94-0.98 Kg
<b>F-11B</b>	5.81" (148)	0.24" (6)	5.36" (137)	✕	✕	3.38" (86)	1.02" (26)	0.59" (15)	✕	1.18" (30)	1.49" (38)	1.01-1.05 Kg

## Order Information:

F-11L	45	S	2	A5	XXX
<b>Type No:</b> F-11L-Lower (Bottom) Connection F-11B-Lower Back Connection	<b>Dial Sizes:</b> 45-4 1/2" (115mm)	<b>Wetted Parts:</b> S-316SS M-Monel B-Brass	<b>Process Connection:</b> 2-1/2"NPT 4-1/4"NPT 8-1/8"NPT 7-7/16"UNF D-G1/2 H-G3/8 E-G1/4 A-R1/2 G-R3/8 B-R1/4 L-Others 3-3/8"NPT 9-9/16"UNF J-M20*1.5	<b>Pressure Range:</b> Please refer to the range table and write down the code you need.  Vacuum Compound Pressure	<b>Option:</b> SS-Threaded Snubber in Socket PW-Polycarbonate Window LSG-Laminated Safety Glass Lens TSG-Tempered Safety Glass Lens