

General Specifications

GS 01C27H01-01EN

EJX118B and EJX438B
Diaphragm Sealed
Differential Pressure and
Gauge Pressure Transmitter

DPharp **EJX**TM
ISA100
Wireless
COMPLIANT

Diaphragm seals are used to prevent process medium from entering directly into the pressure-sensing assembly of the differential pressure and pressure transmitters, they are connected to the transmitter using capillaries filled with fill fluid.

EJX118B Diaphragm Sealed Differential Pressure and EJX438B Diaphragm Sealed Gauge Pressure Transmitters can be used to measure liquid, gas, or steam flow, as well as liquid level, density and pressure.

EJX118B and EJX438B transmit not only process variables but also the setting parameters using wireless signal. The transmitters run on internal batteries, and the installation cost can be decreased since hard-wiring is not required. The communication protocol is compliant with ISA100.11a protocol specifications. These devices will be used with YFGW710, Field Wireless Integrated Gateway. As for YFGW710 specifications, refer to GS 01W01F01-01EN.

FEATURES

Long Life Battery Design

Ultra low current consumption design using two high capacity lithium-thionyl chloride batteries provide wireless operation for years.

Security Assured Wireless Network Joining

Infrared communication between the devices for wireless network configuration and parameter setting.

Quick Update Time

Selectable from 1 second to 60 minutes for measured process value to publish wirelessly.

STANDARD SPECIFICATIONS

WIRELESS SPECIFICATIONS

Wireless Communication

Communication protocol: ISA100.11a protocol
Data rate: 250 kbps
Frequency: 2400 - 2483.5 MHz license free ISM band
Radio security: AES 128 bit codified
RF Transmitter power: Max. 11.6 dBm (fixed)
Antenna: +2 dBi Omni directional monopole type

SPAN AND RANGE LIMITS

EJX118B

Measurement Span/Range	kPa	inH ₂ O/(D1)	mbar/(D3)	mmH ₂ O/(D4)
M				
Span	2 to 100	8 to 400	20 to 1000	200 to 10000
Range	-100 to 100	-400 to 400	-1000 to 1000	-10000 to 10000
H				
Span	10 to 500	40 to 2000	100 to 5000	0.1 to 5 kgf/cm ²
Range	-500 to 500	-2000 to 2000	-5000 to 5000	-5 to 5 kgf/cm ²

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EJX438B

Measurement Span and Range	MPa	psi (/D1)	bar (/D2)	kgf/cm ² (/D3)
A*1				
Span	0.035 to 3.5	5 to 500	0.35 to 35	0.35 to 35
Range	-0.1 to 3.5	-14.5 to 500	-1 to 35	-1 to 35
B				
Flush type*1				
Span	0.16 to 16	23 to 2300	1.6 to 160	1.6 to 160
Range	-0.1 to 16	-14.5 to 2300	-1 to 160	-1 to 160
Extended type*1				
Span	0.16 to 7	23 to 1000	1.6 to 70	1.6 to 70
Range	-0.1 to 7	-14.5 to 1000	-1 to 70	-1 to 70

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*1: Measurement range is within the flange rating.

PERFORMANCE SPECIFICATIONS

Zero-based calibrated span, linear output, wetted parts material code SW for 3-inch flange flush type, fill fluid code B, and capillary length of 5 m.

Specification Conformance

EJX series ensures specification conformance to at least $\pm 3\sigma$.

Reference Accuracy of Calibrated Span

(includes terminal-based linearity, hysteresis, and repeatability)

EJX118B

Measurement span	H
Reference accuracy	
X ≤ span	±0.15% of Span
X > span	±(0.085+0.013 URL/span)% of Span
X	100 kPa (400 inH ₂ O)
URL (upper range limit)	500 kPa (2000 inH ₂ O)

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Measurement span	M
Reference accuracy	
X ≤ span	±0.15% of Span
X > span	±(0.02+0.013 URL/span)% of Span
X	10 kPa (40 inH ₂ O)
URL (upper range limit)	100 kPa (400 inH ₂ O)

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EJX438B

Measurement span		A	B
Reference accuracy	X ≤ span	±0.15% of Span	
	X > span	±(0.1+0.005 URL/Span)% of Span	
X		0.35 MPa (50 psi)	1.6 MPa (230 psi)
URL (upper range limit)		3.5 MPa (500 psi)	16 MPa (2300 psi)

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Square Root Output Accuracy (EJX118B)

The square root accuracy is a percent of flow span.

Output	Accuracy
50% or Greater	Same as reference accuracy
50% to Dropout point	Reference accuracy×50 Square root output (%)

Ambient Temperature Effects per 28°C (50°F) Change**EJX118B**

Capsule	Effect
M and H	±(0.25% Span +0.06% URL)

EJX438B

Capsule	Effect
A and B	±(0.5% Span +0.025% URL)

Static Pressure Effects per 0.69 MPa (100 psi) Change (EJX118B)

Span Effects : ±0.02% of span

Effect on Zero : ±0.014% of URL

Intermittent Measurement Mode Effects**EJX118B**

Capsule	Signal fluctuation	URL(Upper Range Limit)
M	±0.0013×URL/span(%)	100 kPa(400 inH ₂ O)
H	±0.0043×URL/span(%)	500 kPa(2000 inH ₂ O)

EJX438B

Capsule	Signal fluctuation	URL(Upper Range Limit)
A	±0.0014×URL/span(%)	3.5 MPa(500 psi)
B	±0.0013×URL/span(%)	16 MPa(2300 psi)

Battery Pack

Battery pack with long life lithium-thionyl chloride batteries. With the intrinsically safe type, the battery pack is replaceable in hazardous area.
Typical battery life is 10 years at 60 seconds update time or 4 years at 10 seconds update time in the following conditions.*

- Ambient temperature: 23±2°C
- Device role: IO mode
- LCD display: off

* Environmental condition such as vibration may affect the battery life.

Response Time**EJX118B (Differential pressure)**

M and H capsule: 260 msec (approximate value at normal temperature)

EJX438B

200 msec (approximate value at normal temperature)

When software damping is set to zero and including dead time of 100 msec (nominal)

Static Pressure Signal Range and Accuracy (EJX118B)

(Includes terminal-based linearity, hysteresis, and repeatability)

Range

Upper Range Value and Lower Range Value of the static pressure can be set in the range between 0 and Maximum Working Pressure (MWP*). The upper range value must be greater than the lower range value. Minimum setting span is 0.5 MPa (73 psi).

*: Maximum Working Pressure (MWP) is within flange rating pressure.

Accuracy**Absolute Pressure**

1 MPa or higher : ±0.2% of span

Less than 1 MPa: ±0.2%×(1 MPa/span) of span

Gauge Pressure Reference

Gauge pressure reference is 1013 hPa (1 atm)

Note : Gauge pressure variable is based on the above fixed reference and thus subject to be affected by the change of atmospheric pressure.

Intermittent Measurement Mode Effects

±0.013×25 MPa/span(%)

■ FUNCTIONAL SPECIFICATIONS**Output**

Wireless (ISA100.11a protocol) 2.4 GHz signal.

Output mode for EJX118B, linear or square root, is selectable.

Update Time

Measurement mode	Differential pressure	Pressure
Continuous	100 msec	100 msec
Intermittent	1 to 3600 sec selectable	1 to 3600 sec selectable

If the update time is set at one second, the transmitter shifts to the continuous mode.

Zero Adjustment Limits

Zero can be fully elevated or suppressed, within the lower and upper range limits of the capsule.

External Zero Adjustment

External zero is continuously adjustable with 0.01% incremental resolution of span. Re-range can be done locally using the digital indicator with range-setting switch.

Integral Indicator (LCD display)

5-digit numerical display, 6-digit unit display and bar graph.

The indicator is configurable to display one or up to three of the following variables periodically;
Differential pressure, static pressure, temperature.
See also "Factory Setting."

Self Diagnostics

Capsule failure, amplifier failure, configuration error, battery alarm, wireless communication alarm and over-range error for process variables.

Software Download Function

Software download function permits to update wireless field device software via ISA100.11a wireless communication.

Power Supply

2x primary lithium-thionyl chloride batteries
With battery case (batteries sold separately)

Capillary Fill Fluid Density Compensation

Compensation of the zero shift by the ambient temperature effect on the capillary tube.

■ NORMAL OPERATING CONDITION

(Optional features or approval codes may affect limits.)

Ambient Temperature Limits

-40 to 60°C (-40 to 140°F)
-30 to 60°C (-22 to 140°F) LCD visible range
(Note: The ambient temperature limits must be within the fill fluid operating temperature range, see table 1.)

Process Temperature Limits

See table 1.

Ambient Humidity Limits

0 to 100% RH

Working Pressure Limits

See table 1.

For atmospheric pressure or below, see figure 1-1 and 1-2.

Table 1. Process temperature, Ambient temperature, and Working pressure

	Code	Process temperature* ¹	Ambient temperature* ²	Working pressure	Specific gravity* ³
Silicone oil (general use)	A	-10 to 250°C * ⁴ (14 to 482°F)	-10 to 60°C (14 to 140°F)	2.7 kPa abs (0.38 psi abs) to flange rating pressure	1.07
Silicone oil (general use)	B	-30 to 180°C (-22 to 356°F)	-15 to 60°C (5 to 140°F)		0.94
Silicone oil (high temperature use)	C	10 to 310°C (50 to 590°F)	10 to 60°C (50 to 140°F)		1.09
Fluorinated oil (oil-prohibited use)	D	-20 to 120°C (-4 to 248°F)	-10 to 60°C (14 to 140°F)	51 kPa abs (7.4 psi abs) to flange rating pressure	1.90 to 1.92
Ethylene glycol (low temperature use)	E	-50 to 100°C (-58 to 212°F)	-40 to 60°C (-40 to 140°F)	100 kPa abs (atmospheric pressure) to flange pressure rating	1.90

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*1: See figure 1-1 and 1-2 'Working Pressure and Process Temperature.'

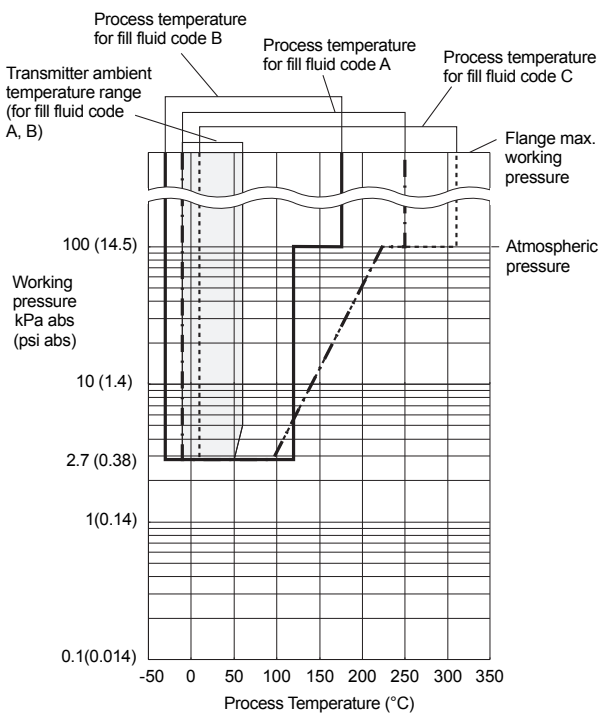
*2: This ambient temperature is the transmitter ambient temperature.

*3: Approximate values at a temperature of 25°C (77°F)

*4: In case of wetted parts material code TW (Tantalum), process temperature limit is up to 200°C (392°F).

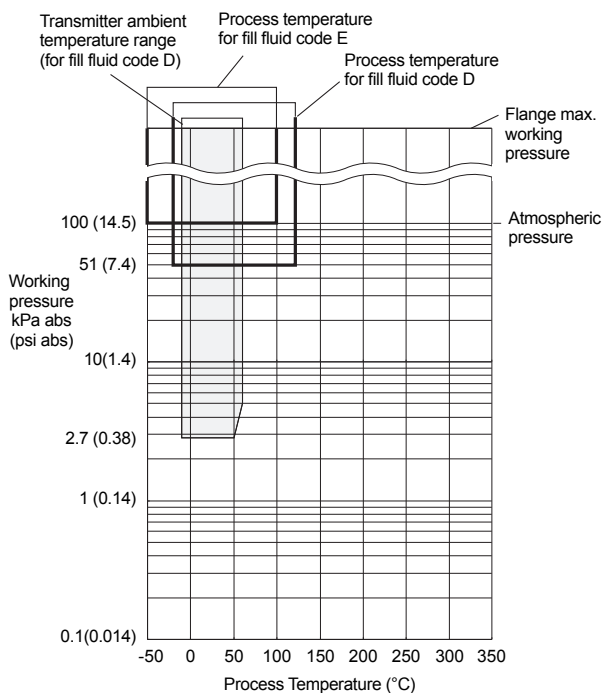
Note: The differential pressure transmitter should be installed at least 600 mm below the high pressure (HP) process connection. However, this value (600 mm) may be affected by ambient temperature, operating pressure, fill fluid or material of the wetted diaphragm.

Contact YOKOGAWA when the transmitter can not be installed at least 600 mm below the HP process connection.



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Figure 1-1. Working Pressure and Process Temperature (Fill fluid : silicone oil for general and high temperature use)



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Figure 1-2. Working Pressure and Process Temperature (Fill fluid : fluorinated oil for oil-prohibited use and ethylene glycol for low temperature use)

■ REGULATORY COMPLIANCE STATEMENTS

This device contains the wireless module.
The wireless module satisfies the following standards.

- * Please confirm that an installation region fulfills a standards, require additional regulatory information and approvals, contact to Yokogawa Electric Corporation.

EMC Conformity Standards

EN61326-1 Class A, Table 2 (For use in industrial locations), EN61326-2-3

R&TTE Conformity Standards

ETSI EN 300 328, ETSI EN 301 489-17, EN61010-1
• Indoor/Outdoor use

European Pressure Equipment Directive 97/23/EC Sound Engineering Practice

Regulation Conformity of the Wireless Module

- FCC Approval
- IC Approval

■ PHYSICAL SPECIFICATIONS

Process connections

See the following table.

Table 2. Flange size and rating

Process connection style	Size	Flange
Flush type	3-inch 2-inch 1 1/2-inch*1	JIS 10K, 20K, 40K, 63K*2 ANSI Class 150, 300, 600 JPI Class 150, 300, 600 DIN PN10/16, 25/40, 64
Extended type	4-inch 3-inch	JIS 10K, 20K, 40K*2 ANSI Class 150, 300 JPI Class 150, 300 DIN PN10/16, 25/40
Combination type (Extended and Flush)*3	High pressure side: 4-inch Low pressure side: 3-inch	JIS 10K, 20K ANSI Class 150, 300 JPI Class 150, 300 DIN PN10/16, 25/40

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*1: Flushing connection rings are always attached.

*2: Applicable for EJX438B only.

*3: Applicable for EJX118B only.

Gasket Contact Surface

See the following table.

Table 3. Gasket contact surface

Flange		JIS/JPI/DIN		ANSI	
Wetted parts material code		SW, SE, SY	HW, TW, UW	SW, SE, SY	HW, TW, UW
Gasket contact Surface	Serration*1	—	—	●	—
	Flat (No serration)	●	●	●	●

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●: Applicable, —: Not applicable

*1: ANSI B16.5

Electrical Connections

See "MODEL AND SPECIFICATIONS."

Transmitter Mounting

2-inch pipe mounting

Wetted Parts Material

Diaphragm seal

Diaphragm and other wetted parts;
Refer to "MODEL AND SUFFIX CODES."

Flushing connection ring (optional)

Ring and Vent / Drain plugs;
Refer to "MODEL AND SUFFIX CODES."
(Spiral) gasket for transmitter side
316SST (Hoop), PTFE Teflon (Filler)

Non-wetted Parts Material

Transmitter body section:

Cover flange
ASTM CF-8M

Cover flange bolting
B7 carbon steel, 316L SST, or 660 SST

Housing
Low copper cast aluminum alloy with polyurethane,
mint-green paint (Munsell 5.6BG 3.3/2.9 or its
equivalent)

Degrees of Protection
IP66/IP67, NEMA4X

Name plate and tag
304 SST tag plate wired onto transmitter

Diaphragm seal section:

Process Flange
JIS S25C, JIS SUS304, or JIS SUS316

Capillary tube
JIS SUS316

Protection tube
JIS SUS304 PVC-sheathed
(Max. operating temperature of PVC, 100°C (212°F))

Fill fluid
See table 1.

Weight

EJX118B

Flush type: 18.2 kg (40.1 lbs)
(3-inch ANSI Class150 flange, capillary length 5 m;
without integral indicator and mounting bracket.)

Extended type: 23.8 kg (52.5 lbs)
(4-inch ANSI Class150 flange, extension length
(X₂)=100 mm, capillary length 5 m; without integral
indicator and mounting bracket.)

Combination type: 21.0 kg (46.3 lbs)
(4-inch and 3-inch ANSI Class150 flange, extension
length (X₂)=100 mm, capillary length 5 m; without
integral indicator and mounting bracket.)

EJX438B

Flush type: 9.2 kg (20.3 lbs)
(3-inch ANSI Class 150 flange, capillary length 5 m;
without integral indicator and mounting bracket.)

Extended type: 14.3 kg (31.5 lbs)
(4-inch ANSI Class 150 flange, extension length
(X₂)=100 mm, capillary length 5 m; without integral
indicator and mounting bracket.)

< Related Instruments >

Field Wireless System: Refer to GS 01W01A01-01EN
Field Wireless Integrated Gateway YFGW710:
Refer to GS 01W01F01-01EN

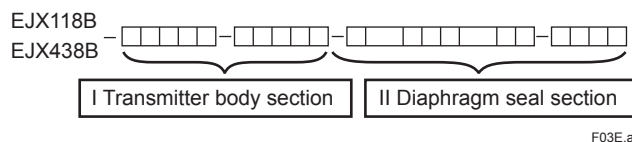
< Reference >

1. Teflon; Trademark of E.I. DuPont de Nemours & Co.
 2. Hastelloy; Trademark of Haynes International Inc.
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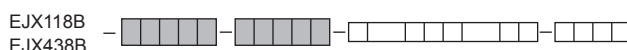
■ MODEL AND SUFFIX CODES

● Instruction

The model and suffix codes for EJX118B and EJX438B consist of two parts; a transmitter body section (I) and a diaphragm seal section (II). This specification sheet introduces these two parts separately. The transmitter body section is shown in one table, and the diaphragm seal section specifications are listed according to the process connection style. First select the model and suffix codes of transmitter body section and then continue on one of the diaphragm seal section.



I. Transmitter body section



Model	Suffix codes	Description
EJX118B		Diaphragm sealed differential pressure transmitter
EJX438B		Diaphragm sealed Gauge Pressure transmitter
Output signal	- L	Wireless communication (ISA100.11a protocol)
Measurement span (capsule)	M ^{*2} 2 to 100 kPa (8 to 400 inH ₂ O) H ^{*2} 10 to 500 kPa (40 to 200 inH ₂ O) A ^{*3} 0.035 to 3.5 MPa (5 to 500 psi) B ^{*3} 0. 16 to 16 MPa (23 to 2300 psi) ^{*1}	
—	S	Always S
—	C	Always C
Coverflange bolts and nuts material	J B7 carbon steel G 316L SST C 660 SST	
Installation	- 9	Horizontal piping type and left side high pressure
Amplifier housing	7	Cast-aluminum alloy
Electrical connection	J	No electrical connection
Integral Indicator	D	Digital indicator
Mounting bracket	B 304 SST 2-inch pipe mounting, flat type (for horizontal piping) N None	
Diaphragm seal section	- [] [] [] [] [] - [] [] [] [] []	Continued on diaphragm seal section (II)

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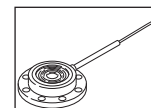
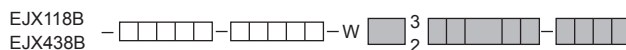
The “►” marks indicate the most typical selection for each specification.

*1: When specified process connection style code **E**, maximum range and span are 7 MPa (1000 psi.)

*2: Applicable for EJX118B

*3: Applicable for EJX438B

- **Precess connection size: 3-inch (80 mm) / 2-inch (50 mm)**



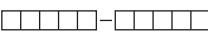
Model	Suffix codes	Description		EJX118B	EJX438B
EJX118B EJX438B	—□□□□□—□□□□□	Transmitter body section (I)			
Process connection style		-W	Flush type		
Flange rating	J1 J2 J4 J6 A1 A2 A4 D2 D4 D5	JIS 10K JIS 20K JIS 40K JIS 63K ANSI class 150 ANSI class 300 ANSI class 600 DIN PN10/16 DIN PN25/40 DIN PN64	P1 P2 P4 JPI class 150 JPI class 300 JPI class 600		
Process connection size (Process flange size)	3 2	3-inch (80 mm) 2-inch (50 mm)			
Flange material	A B C	JIS S25C 304 SST ^{*11} 316 SST ^{*11}			
Gasket contact surface ^{*1}	1 2	Serration (for ANSI flange with wetted parts material SW only) Flat (no serration)			
Wetted parts material ^{*10}	SW HW TW UW	[Diaphragm] 316L SST Hastelloy C-276 ^{*9#} Tantalum ^{*7} Titanium	[Others] 316L SST Hastelloy C-276 ^{*9#} Tantalum ^{*7} Titanium		
Flushing connection ring ^{*2}	0 1 2 A B	[Ring] None Straight type Straight type Straight type Straight type	[Drain/Vent plugs] — R 1/4 connections ^{*8} 1/4 NPT connections R 1/4 connections ^{*8} 1/4 NPT connections	[Material] — 316 SST # 316 SST # 316 SST # 316 SST #	
Extension	0	None			
Fill fluid	-A -B -C -D -E	For general use (silicone oil) ^{*3} For general use (silicone oil) For high temperature use (silicone oil) ^{*4 *7} For oil-prohibited use (fluorinated oil) ^{*5} For low temperature use (ethylene glycol)	[Process temp.] [Ambient temp.] -10 to 250°C -10 to 60°C -30 to 180°C -15 to 60°C 10 to 310°C 10 to 60°C -20 to 120°C -10 to 60°C -50 to 100°C -40 to 60°C		
Capillary connection	A	Side of diaphragm seal unit			
—	2	Always 2			
Capillary length ^{*6}	1 2 3 4 5	1 m 2 m 3 m 4 m 5 m	6 7 8 9 A	6 m 7 m 8 m 9 m 10 m	
Option codes	/□ Optional specification				

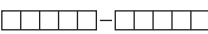
The "►" marks indicate the most typical selection for each specification. Example: EJX118B-LMSCG-97JDN-WA13B1SW00-BA25/□
EJX438B-LMSCG-97JDN-WA13B1SW00-BA25/□

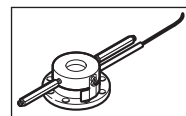
- *1: See table 3 "Gasket contact surface."
 *2: When specified flushing connection ring code **1**, **2**, **A**, or **B**, exclusive gasket is provided for transmitter side.
 *3: In case of wetted parts material code **TW** (Tantalum), the process temperature limit is -10 to 200 °C.
 *4: Wetted parts material code **TW** (Tantalum) cannot be applied.
 *5: Even in case where fill fluid code **D** (fluorinated oil) is selected, if degrease cleansing treatment or both degrease cleansing and dehydrating treatment for the wetted parts is required, specify option code **K1** or **K5**.
 *6: In case of wetted parts material code **HW** (Hastelloy C), **TW** (Tantalum), and **UW** (Titanium) for 2-inch pressure flange, specify capillary length from 1 to 5 m.
 *7: Not applicable for flashing connection ring code **1** and **2**.
 *8: Not applicable for gasket contact surface code **1**.
 *9: Hastelloy C-276 or N10276.
 *10: Δ Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the diaphragm itself can be damaged and that material from the broken diaphragm and the fill fluid can contaminate the user's process fluids.
 Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150 °C [302 °F] or above). Contact Yokogawa for detailed information of the wetted parts material.
 *11: Forged version of the material may be used.
 The # marks indicate the construction materials conform to NACE material recommendations per MR0175/ISO15156. Please refer to the latest standards for details.
 Selected materials also conform to NACE MR0103.

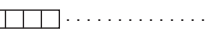
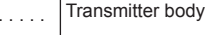
II. Diaphragm seal section (Flush type)

● Precess connection size: 1 1/2-inch (40 mm)

EJX118B —  — W  8 

EJX438B —  — W  8 



Model	Suffix codes	Description	EJX118B	EJX438B
EJX118B EJX438B	—  — 	Transmitter body section (I)		
Process connection style	-W	Flush type		
Flange rating	J1 JIS 10K J2 JIS 20K J4 JIS 40K A1 ANSI class 150 A2 ANSI class 300 A4 ANSI class 600 P1 JPI class 150 P2 JPI class 300 P4 JPI class 600		○	○
Process connection size (Process flange size)	8	1 1/2-inch (40 mm)	○	○
Flange material	A JIS S25C B 304 SST*6 C 316 SST*6		○	○
Gasket contact surface*1	1 Serration (for ANSI flange only) 2 Flat (no serration)		○	○
Wetted parts material*5	SW	[Diaphragm] 316L SST [Others] 316L SST	○	○
Flushing connection ring*2	3 [Ring] Reducer type 4 [Ring] Reducer type C [Ring] Reducer type D [Ring] Reducer type	[Drain/Vent plugs] R 1/4 connections*4 [Material] 316 SST # [Drain/Vent plugs] 1/4 NPT connections [Material] 316 SST # [Drain/Vent plugs] R 1/4 connections*4 [Material] 316 SST # [Drain/Vent plugs] 1/4 NPT connections [Material] 316 SST #	○	—
Extension	0	None	○	○
Fill fluid	-A For general use (silicone oil) -B For general use (silicone oil) -D For oil-prohibited use (fluorinated oil)*3 -E For low temperature use (ethylene glycol)	[Process temp.] [Ambient temp.] -10 to 250°C -10 to 60°C -30 to 180°C -15 to 60°C -20 to 120°C -10 to 60°C -50 to 100°C -40 to 60°C	○	○
Capillary connection	A	Side of diaphragm seal unit	○	○
—	2	Always 2	○	○
Capillary length	1 1 m 2 2 m 3 3 m 4 4 m 5 5 m	6 6 m 7 7 m 8 8 m 9 9 m A 10 m	○	○
Option codes		/□ Optional specification		

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The “►” marks indicate the most typical selection for each specification. Example: EJX118B-LMSCG-97JDN-WA18B1SW40-BA25/□
EJX438B-LASCG-97JDN-WA18B1SWD0-BA25/□

*1: See table 3 ‘Gasket contact surface.’

*2: When specified flushing connection ring code **3**, **4**, **C**, or **D**, exclusive gasket is provided for transmitter side.

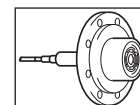
*3: Even in case where fill fluid code **D** (fluorinated oil) is selected, if degrease cleansing treatment or both degrease cleansing and dehydrating treatment for the wetted parts is required, specify option code **K1** or **K5**.

*4: Not applicable for gasket contact surface code **1**.

*5: ⚠ Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the diaphragm itself can be damaged and that material from the broken diaphragm and the fill fluid can contaminate the user's process fluids. Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

*6: Forged version of the material may be used.

- **Precess connection size: 4-inch (100 mm) / 3-inch (80 mm)**



Model	Suffix codes	Description					
EJX118B EJX438B	—□□□□□—□□□□□	Transmitter body section (I)				EJX118B	EJX438B
Process connection style		-E	Extended type				
Flange rating		J1	JIS 10K			○	○
		J2	JIS 20K			○	○
		J4	JIS 40K			—	—
		A1	ANSI class 150			○	○
		A2	ANSI class 300			○	○
		P1	JPI class 150			○	○
		P2	JPI class 300			○	○
		D2	DIN PN10/16			○	○
		D4	DIN PN25/40			○	○
Process connection size (Process flange size)		4	4-inch (100 mm)			○	○
		3	3-inch (80 mm)			○	○
Flange material		A	JIS S25C			○	○
		B	304 SST* ⁵			○	○
		C	316 SST* ⁵			○	○
Gasket contact surface* ¹		1	Serration (for ANSI flange only)			○	○
		2	Flat (no serration)			○	○
Wetted parts material* ⁴		SE	[Diaphragm] 316L SST	[Pipe] 316 SST	[Others] 316 SST	○	○
Flushing connection ring		0	None			○	○
Extension		1	Length (X ₂) = 50 mm			—	○
		2	Length (X ₂) = 50 mm			○	—
		3	Length (X ₂) = 100 mm			—	○
		4	Length (X ₂) = 100 mm			○	—
		5	Length (X ₂) = 150 mm			—	○
		6	Length (X ₂) = 150 mm			○	—
Fill fluid		A	[Process temp.] [Ambient temp.]			○	○
		B	For general use (silicone oil) -10 to 250°C -10 to 60°C			○	○
		C	For general use (silicone oil) -30 to 180°C -15 to 60°C			○	○
		D	For high temperature use (silicone oil) 10 to 310°C 10 to 60°C			○	○
		E	For oil-prohibited use (fluorinated oil)* ² -20 to 120°C -10 to 60°C			○	○
			For low temperature use (ethylene glycol) -50 to 100°C -40 to 60°C			○	○
Capillary connection		B	Back of diaphragm seal unit			○	○
—		2	Always 2			○	○
Capillary length* ³		1	1 m	6	6 m	○	○
		2	2 m	7	7 m	○	○
		3	3 m	8	8 m	○	○
		4	4 m	9	9 m	○	○
		5	5 m	A	10 m	○	○
Option codes		/□ Optional specification					

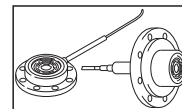
The "►" marks indicate the most typical selection for each specification. Example: EJX118B-LMSCG-97JDN-EA14B1SE02-BB25/□
EJX438B-LASCG-97JDN-EA14B1SE01-BB25/□

- *1: See table 3 'Gasket contact surface.'
- *2: Even in case where fill fluid code **D** (fluorinated oil) is selected, if degrease cleansing treatment or both degrease cleansing and dehydrating treatment for the wetted parts is required, specify option code **K1** or **K5**.
- *3: The specified capillary length includes the extension length (X_2) and the flange thickness (t).
- *4:  Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the diaphragm itself can be damaged and that material from the broken diaphragm and the fill fluid can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.
- *5: Forced version of the material may be used.

II. Diaphragm seal section (Combination type)

- Precess connection size: High pressure side; 4-inch (100 mm) ••• Extended type
Low pressure side; 3-inch (80 mm) ••• Flush type

EJX118B — — Y W



Model	Suffix codes	Description
EJX118B	— — Y W	Transmitter body section (I)
Process connection style	—Y	Combination type (Extended and Flush)
Flange rating	J1 JIS 10K J2 JIS 20K A1 ANSI class 150 A2 ANSI class 300 P1 JPI class 150 P2 JPI class 300 D2 DIN PN10/16 D4 DIN PN25/40	
Process connection size (Process flange size)	W	High pressure side 4-inch (100 mm) Low pressure side 3-inch (80 mm)
Flange material	A JIS S25C B 304 SST*5 C 316 SST*5	
Gasket contact surface *1	1 Serration (for ANSI flange only) 2 Flat (no serration)	
Wetted parts material *4	SY	[Diaphragm] [Pipe] [Others] High pressure side: 316L SST 316 SST 316 SST Low pressure side: 316L SST — 316L SST
Flushing connection ring	0	None
Extension	1 Length (X ₂) = 50 mm 3 Length (X ₂) = 100 mm 5 Length (X ₂) = 150 mm	
Fill fluid	A For general use (silicone oil) B For general use (silicone oil) C For high temperature use (silicone oil) D For oil-prohibited use (fluorinated oil)*2 E For low temperature use (ethylene glycol)	[Process temperature] [Ambient temperature] —10 to 250°C —10 to 60°C —30 to 180°C —15 to 60°C 10 to 310°C 10 to 60°C —20 to 120°C —10 to 60°C —50 to 100°C —40 to 60°C
Capillary connection	C	High pressure side: Back of diaphragm seal unit Low pressure side: Side of diaphragm seal unit
—	2	Always 2
Capillary length*3	1 1 m 2 2 m 3 3 m 4 4 m 5 5 m 6 6 m 7 7 m 8 8 m 9 9 m A 10 m	
Option codes	/□ Optional specification	

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The “►” marks indicate the most typical selection for each specification. Example: EJX118B-LMSCG-97JDN-YA1WB1SY01-BC25/□

*1: See table 3 ‘Gasket contact surface.’

*2: Even in case where fill fluid code **D** (fluorinated oil) is selected, if degrease cleansing treatment or both degrease cleansing and dehydrating treatment for the wetted parts is required, specify option code **K1** or **K5**.

*3: The specified capillary length of high pressure side (extended side) includes the extension length (X₂) and the flange thickness (t).

*4: ⚠ Users must consider the characteristics of selected wetted parts material and the influence of process fluids. The use of inappropriate materials can result in the leakage of corrosive process fluids and cause injury to personnel and/or damage to plant facilities. It is also possible that the diaphragm itself can be damaged and that material from the broken diaphragm and the fill fluid can contaminate the user's process fluids.
Be very careful with highly corrosive process fluids such as hydrochloric acid, sulfuric acid, hydrogen sulfide, sodium hypochlorite, and high-temperature steam (150°C [302°F] or above). Contact Yokogawa for detailed information of the wetted parts material.

*5: Forged version of the material may be used.

■ OPTIONAL SPECIFICATIONS (For Explosion Protected type)

Item	Description	Code
Factory Mutual (FM)	FM Intrinsically safe Approval Applicable Standard: FM3600, FM3610, FM3611, FM3810, ANSI/NEMA 250 Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G and Class III, Division 1, Class I, Zone 0, in Hazardous Locations, AEx ia IIC Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G, and Class III, Division 1, Class I, Zone 2, Group IIC, in Hazardous Locations Enclosure: "NEMA 4X", Temp. Class: T4, Amb. Temp.: -50 to 70°C (-58 to 158°F)	FS17
CENELEC ATEX	CENELEC ATEX (KEMA) Intrinsically safe Approval Applicable Standard: EN60079-0, EN60079-11, EN60079-26 Certificate: KEMA 10ATEX0164 X II 1G Ex ia IIC T4 Ga Degree of protection: IP66 and IP67 Maximum Process Temp.(Tp):120°C(248°F) Amb. Temp.(Tamb): -50 to 70°C (-58 to 158°F)	KS27
Canadian Standards Association (CSA)	CSA Intrinsically safe Approval Certificate: 2325443 [For CSA C22.2] Applicable Standard: C22.2 No.0, C22.2 No.0.4, C22.2 No.25, C22.2 No.94, C22.2 No.157, C22.2 No.213, C22.2 No.61010-1 Intrinsically Safe for Class I, Division 1, Groups A, B, C & D, Class II, Division 1, Groups E, F & G, Class III, Division 1. Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division 2, Groups F & G, Class III, Division 1 Enclosure: Type 4X Temperature Code: T4 Ambient Temp.: -50 to 70°C (-58 to 158°F) [For CSA E60079] Applicable Standard: CAN/CSA E60079-0, CAN/CSA E60079-11, IEC60529 Ex ia IIC T4, Enclosure: IP66 and IP67 Maximum Process Temp.(Tp):120°C (248°F) Amb. Temp.(Tamb): -50 to 70°C (-58 to 158°F)	CS17
IECEX Scheme	IECEX Intrinsically safe Approval Applicable Standard: IEC60079-0:2007, IEC60079-11:2006, IEC60079-26:2006 Certificate: IECEX KEM 10.0074 X II 1G Ex ia IIC T4 Ga Enclosure: IP66 and IP67 Maximum Process Temp.(Tp):120°C(248°F) Amb. Temp.(Tamb): -50 to 70°C (-58 to 158°F)	SS27

■ OPTIONAL SPECIFICATIONS

Item		Description		Code	
Painting	Color change	Amplifier cover only		P□	
	Coating change	Anti-corrosion coating *1		X2	
Oil-prohibited use		Degrease cleansing treatment		K1	
Oil-prohibited use with dehydrating treatment		Degrease cleansing treatment and dehydrating treatment		K5	
Calibration units *3		P calibration (psi unit)	(See table for Span and Range Limits.)	D1	
		bar calibration (bar unit)		D3	
		M calibration (kgf/cm ² unit)		D4	
Teflon film *2 *7		Diaphragm protection from sticky process fluid by FEP Teflon film attached with fluorinated oil. Operation range: 20 to 150°C, 0 to 2 MPa (Not applicable for vacuum service).		TF1	
Operating temperature correction *4		Adjusting range: 80°C to Maximum temperature of specified fill fluid		R	
Capillary without PVC sheaths		When ambient temperature exceeds 100°C, or use of PVC is prohibited		V	
Gold-plated diaphragm *5		Inside of isolating diaphragms (fill fluid side) are gold plated, effective for hydrogen permeation.		A1	
Material certificate		Process flange, Block	For Flush type	M2W	
		Process flange, Block, Ring *6		M5W	
		Process flange, Block, Pipe, Base	For Extended type	M2E	
		High Pressure side: Process flange, Block, Pipe, Base *12 Low Pressure side: Process flange, Block	For Combination type	M2Y	
Pressure test/ Leak test Certificate *11	EJX118B	(Flange rating) (Test pressure)			
		JIS 10K	2 MPa (290 psi)	T51	
		JIS 20K	5 MPa (720 psi)	T54	
		JIS 40K *8	10 MPa (1450 psi)	T57	
		ANSI/JPI Class 150	3 MPa (430 psi)	T52	
		ANSI/JPI Class 300 *8	8 MPa (1160 psi)	T56	
		ANSI/JPI Class 300 *9	7 MPa (1000 psi)	T55	
		ANSI/JPI Class 600 *8	16 MPa (2300 psi)	T58	
	EJX438B	For A-Capsule	JIS 10K	2 MPa (290 psi)	T51
			JIS 20K, 40K, 63K	3.5 MPa (500 psi)	T53
			ANSI/JPI Class 150	3 MPa (430 psi)	T52
			ANSI/JPI Class 300, 600	3.5 MPa (500 psi)	T53
		For B-Capsule	JIS 10K	2 MPa (290 psi)	T51
			JIS 20K	5 MPa (720 psi)	T54
			JIS 40K *8	10 MPa (1450 psi)	T57
			JIS 40K *9	7 MPa (1000 psi)	T55
			JIS 63K *8	16 MPa (2300 psi)	T58
			ANSI/JPI Class 150	3 MPa (435 psi)	T52
			ANSI/JPI Class 300 *8	8 MPa (1160 psi)	T56
			ANSI/JPI Class 300 *9	7 MPa (1000 psi)	T55
ANSI/JPI Class 600 *8	16 MPa (2300 psi)	T58			
		Nitrogen (N ₂) Gas *10 Retention time: 10 minutes			

*1: Not applicable with color change option.

*2: Applicable for flush type (process connection style code **W**.)

*3: The unit of MWP (Max. working pressure) on the name plate of a housing is the same unit as specified by option code **D1**, **D3**, and **D4**.

*4: Specify the process operating temperature for zero correction. Example: Zero correction by process temperature 90°C.

*5: Applicable for wetted parts material code **SW**, **SE**, **SY**, and **HW**.

*6: Applicable for flushing connection ring code **1**, **2**, **3**, **4**, **A**, **B**, **C**, and **D**.

*7: Applicable for flushing connection ring code **0**.

*8: Applicable for flush type (process connection style code **W**.)

*9: Applicable for extended type and Combination type (process connection style code **E** and **Y**.)

*10: Pure nitrogen gas is used for oil-prohibited use (option code **K1** and **K5**.)

*11: The unit on the certificate is always MPa regardless of selection of option code **D1**, **D3**, or **D4**. A flushing connection ring will not be applied when conducting the pressure test or leak test.

*12: Applicable for model EJX118B.

■ OPTIONAL ACCESSORIES

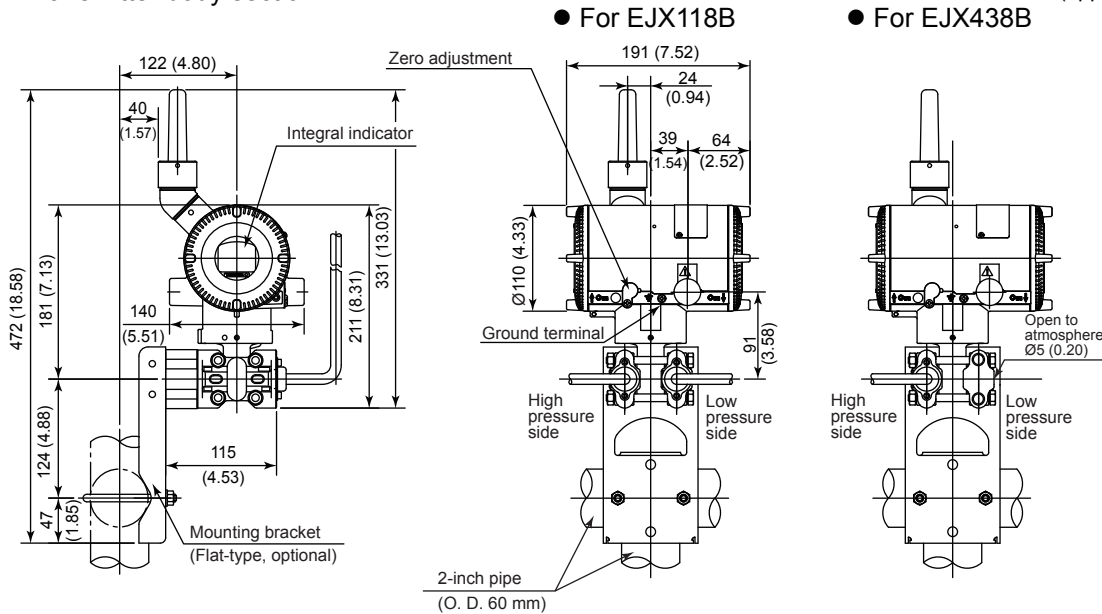
Product	Part number	Specification
Battery pack assembly	F9915NQ	Battery case, Lithium-thionyl chloride batteries 2 pieces
Batteries*1	F9915NR	Lithium-thionyl chloride batteries, 2 pieces
Battery case	F9915NK	Battery case only

*1: Alternatively, Tadiran SL-2780/S or TL-5930/S batteries can be purchased from your local distributor.

DIMENSIONS

<Transmitter body section>

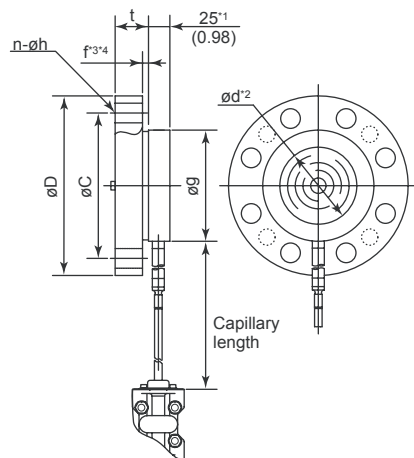
Unit: mm (approx. inch)



<Diaphragm seal section>

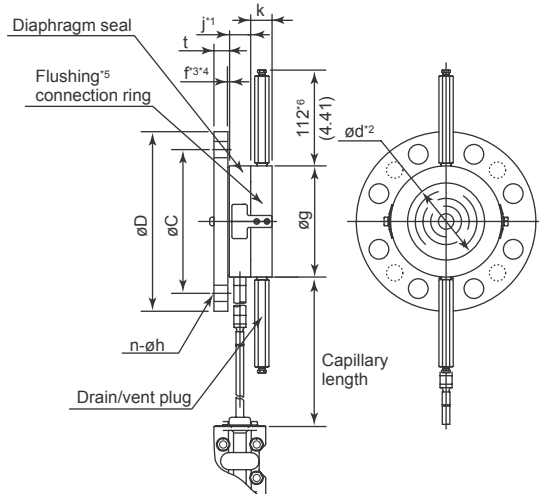
● Flush type

- ◆ No ring (Flushing connection ring code 0)



- ◆ With ring

(EJX118B: Flushing connection ring code 1, 2, 3, and 4)
(EJX438B: Flushing connection ring code A, B, C, and D)

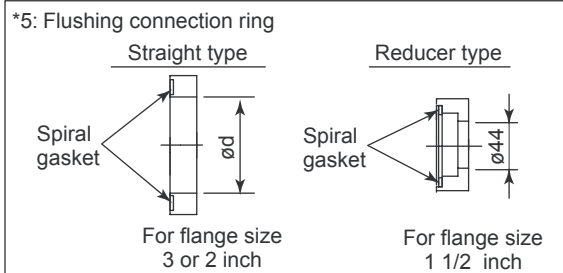


*1: When wetted parts material code **UW** (titanium), value is 34 (1.34).

*2: Indicates inside diameter of gasket contact surface

*3: In case where process flange material is JIS S25C, value of f is 0.

*4: In case where process flange material is 304 SST in ANSI/JPI flange, value of f is included in t.

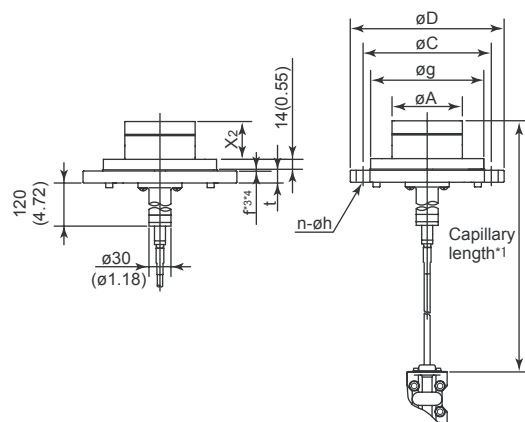


*6: When option code **K1** or **K5** is selected, add 11 mm (0.28 inch).

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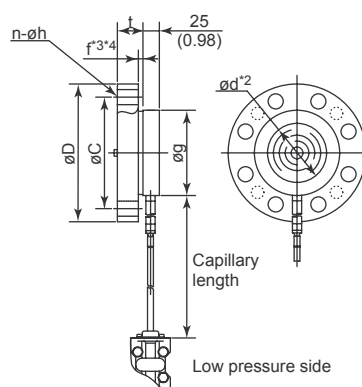
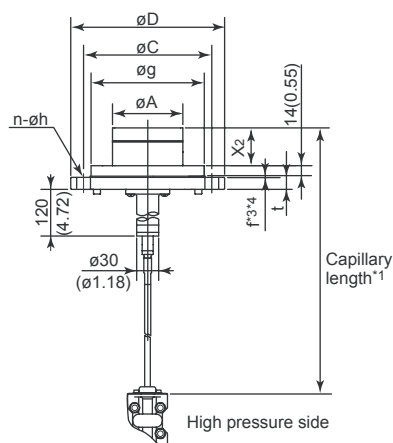
Unit: mm (approx. inch)

● Extended type

● Extension length (X_2)

Extension code	X_2
2	50(1.97)
4	100(3.94)
6	150(5.91)

● Combination type for EJX118B



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- *1: The specified capillary length includes the extension length (X_2) and the flange thickness (t).
 *2: Indicates inside diameter of gasket contact surface.
 *3: In case where process flange material is JIS S25C, value of f is 0.
 *4: In case where process flange material is 304 SST in ANSI/JPI flange, value of f is included in t.

Unit: mm (Approx.: inch)

Process flange size: 4 inch (100 mm)

Code	Flange rating	øD	øC	øg	ød	t	f ^{*3,4}	Bolt holes		j	k	øA
								No.(n)	Dia.(øh)			
J1	JIS 10K	210 (8.27)	175 (6.89)	155 (6.10)	—	18 (0.71)	0	8	19 (0.75)	—	—	96±0.5 (3.78±0.02)
J2	JIS 20K	225 (8.86)	185 (7.28)	155 (6.10)	—	24 (0.94)	0	8	23 (0.91)	—	—	96±0.5 (3.78±0.02)
A1	ANSI class 150	228.6 (9.00)	190.5 (7.50)	155 (6.10)	—	23.9 (0.94)	1.6 (0.06)	8	19.1 (0.75)	—	—	96±0.5 (3.78±0.02)
A2	ANSI class 300	254 (10.00)	200.2 (7.88)	155 (6.10)	—	31.8 (1.25)	1.6 (0.06)	8	22.4 (0.88)	—	—	96±0.5 (3.78±0.02)
P1	JPI class 150	229 (9.02)	190.5 (7.50)	155 (6.10)	—	24 (0.94)	1.6 (0.06)	8	19 (0.75)	—	—	96±0.5 (3.78±0.02)
P2	JPI class 300	254 (10.0)	200.2 (7.88)	155 (6.10)	—	32 (1.26)	1.6 (0.06)	8	22 (0.87)	—	—	96±0.5 (3.78±0.02)
D2	DIN PN10/16	220 (8.66)	180 (7.09)	155 (6.10)	—	20 (0.79)	0	8	18 (0.71)	—	—	96±0.5 (3.78±0.02)
D4	DIN PN25/40	235 (9.25)	190 (7.48)	155 (6.10)	—	24 (0.94)	0	8	22 (0.87)	—	—	96±0.5 (3.78±0.02)

Process flange size: 3 inch (80 mm)

Code	Flange rating	øD	øC	øg	ød ²	t	f ^{*3,4}	Bolt holes		j ^{*1}	k	øA
								No.(n)	Dia.(øh)			
J1	JIS 10K	185 (7.28)	150 (5.91)	130 (5.12)	90 (3.54)	18 (0.71)	0	8	19 (0.75)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
J2	JIS 20K	200 (7.87)	160 (6.30)	130 (5.12)	90 (3.54)	22 (0.87)	0	8	23 (0.91)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
J4	JIS 40K	210 (8.27)	170 (6.69)	130 (5.12)	90 (3.54)	32 (1.26)	0	8	23 (0.91)	25 (0.98)	27 (1.06)	—
A1	ANSI class 150	190.5 (7.50)	152.4 (6.00)	130 (5.12)	90 (3.54)	23.9 (0.94)	1.6 (0.06)	4	19.1 (0.75)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
A2	ANSI class 300	209.6 (8.25)	168.1 (6.62)	130 (5.12)	90 (3.54)	28.5 (1.12)	1.6 (0.06)	8	22.4 (0.88)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
A4	ANSI class 600	209.6 (8.25)	168.1 (6.62)	130 (5.12)	90 (3.54)	38.2 (1.50)	6.4 (0.25)	8	22.4 (0.88)	25 (0.98)	27 (1.06)	—
P1	JPI class 150	190 (7.48)	152.4 (6.00)	130 (5.12)	90 (3.54)	24 (0.94)	1.6 (0.06)	4	19 (0.75)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
P2	JPI class 300	210 (8.27)	168.1 (6.61)	130 (5.12)	90 (3.54)	28.5 (1.12)	1.6 (0.06)	8	22 (0.87)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
P4	JPI class 600	210 (8.27)	168.1 (6.61)	130 (5.12)	90 (3.54)	38.4 (1.51)	6.4 (0.25)	8	22 (0.87)	25 (0.98)	27 (1.06)	—
D2	DIN PN10/16	200 (7.87)	160 (6.30)	130 (5.12)	90 (3.54)	20 (0.79)	0	8	18 (0.71)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
D4	DIN PN25/40	200 (7.87)	160 (6.30)	130 (5.12)	90 (3.54)	24 (0.94)	0	8	18 (0.71)	25 (0.98)	27 (1.06)	71±0.5 (2.8±0.02)
D5	DIN PN64	215 (8.46)	170 (6.69)	130 (5.12)	90 (3.54)	28 (1.10)	0	8	22 (0.87)	25 (0.98)	27 (1.06)	—

Process flange size: 2 inch (50 mm)

Code	Flange rating	øD	øC	øg	ød ²	t	f ^{*3,4}	Bolt holes		j	k
								No.(n)	Dia.(øh)		
J1	JIS 10K	155 (6.10)	120 (4.72)	100 (3.94)	61 (2.40)	16 (0.63)	0	4	19 (0.75)	25 (0.98)	27 (1.06)
J2	JIS 20K	155 (6.10)	120 (4.72)	100 (3.94)	61 (2.40)	18 (0.71)	0	8	19 (0.75)	25 (0.98)	27 (1.06)
J4	JIS 40K	165 (6.50)	130 (5.12)	100 (3.94)	61 (2.40)	26 (1.02)	0	8	19 (0.75)	25 (0.98)	27 (1.06)
A1	ANSI class 150	152.4 (6.00)	120.7 (4.75)	100 (3.94)	61 (2.40)	19.1 (0.75)	1.6 (0.06)	4	19.1 (0.75)	25 (0.98)	27 (1.06)
A2	ANSI class 300	165.1 (6.50)	127.0 (5.00)	100 (3.94)	61 (2.40)	22.4 (0.88)	1.6 (0.06)	8	19.1 (0.75)	25 (0.98)	27 (1.06)
A4	ANSI class 600	165.1 (6.50)	127.0 (5.00)	100 (3.94)	61 (2.40)	31.8 (1.25)	6.4 (0.25)	8	19.1 (0.75)	25 (0.98)	27 (1.06)
P1	JPI class 150	152 (5.98)	120.6 (4.75)	100 (3.94)	61 (2.40)	19.5 (0.77)	1.6 (0.06)	4	19 (0.75)	25 (0.98)	27 (1.06)
P2	JPI class 300	165 (6.50)	127.0 (5.00)	100 (3.94)	61 (2.40)	22.4 (0.88)	1.6 (0.06)	8	19 (0.75)	25 (0.98)	27 (1.06)
P4	JPI class 600	165 (6.50)	127.0 (5.00)	100 (3.94)	61 (2.40)	31.9 (1.26)	6.4 (0.25)	8	19 (0.75)	25 (0.98)	27 (1.06)
D2	DIN PN10/16	165 (6.50)	125 (4.92)	100 (3.94)	61 (2.40)	18 (0.71)	0	4	18 (0.71)	25 (0.98)	27 (1.06)
D4	DIN PN25/40	165 (6.50)	125 (4.92)	100 (3.94)	61 (2.40)	20 (0.79)	0	4	18 (0.71)	25 (0.98)	27 (1.06)
D5	DIN PN64	180 (7.09)	135 (5.31)	100 (3.94)	61 (2.40)	26 (1.02)	0	4	22 (0.87)	25 (0.98)	27 (1.06)

Process flange size: 1 1/2 inch (40 mm)

Code	Flange rating	øD	øC	øg	ød ²	t	f ^{*3,4}	Bolt holes		j	k
								No.(n)	Dia.(øh)		
J1	JIS 10K	140 (5.51)	105 (4.13)	86 (3.39)	44 (1.73)	16 (0.63)	0	4	19 (0.75)	27 (1.06)	30 (1.18)
J2	JIS 20K	140 (5.51)	105 (4.13)	86 (3.39)	44 (1.73)	18 (0.71)	0	4	19 (0.75)	27 (1.06)	30 (1.18)
J4	JIS 40K	160 (6.30)	120 (4.72)	86 (3.39)	44 (1.73)	24 (0.94)	0	4	23 (0.91)	27 (1.06)	30 (1.18)
A1	ANSI class 150	127 (5.00)	98.6 (3.88)	86 (3.39)	44 (1.73)	17.5 (0.69)	1.6 (0.06)	4	15.9 (0.63)	27 (1.06)	30 (1.18)
A2	ANSI class 300	155.4 (6.12)	114.3 (4.50)	86 (3.39)	44 (1.73)	20.6 (0.81)	1.6 (0.06)	4	22.4 (0.88)	27 (1.06)	30 (1.18)
A4	ANSI class 600	155.4 (6.12)	114.3 (4.50)	86 (3.39)	44 (1.73)	28.8 (1.13)	6.4 (0.25)	4	22.4 (0.88)	27 (1.06)	30 (1.18)
P1	JPI class 150	127 (5.00)	98.6 (3.88)	86 (3.39)	44 (1.73)	17.6 (0.69)	1.6 (0.06)	4	16 (0.63)	27 (1.06)	30 (1.18)
P2	JPI class 300	155 (6.10)	114.3 (4.50)	86 (3.39)	44 (1.73)	20.6 (0.81)	1.6 (0.06)	4	22 (0.87)	27 (1.06)	30 (1.18)
P4	JPI class 600	155 (6.10)	114.3 (4.50)	86 (3.39)	44 (1.73)	28.9 (1.14)	6.4 (0.25)	4	22 (0.87)	27 (1.06)	30 (1.18)

*1: When wetted parts material code **UW** (titanium) is selected, value is 34 (1.34).

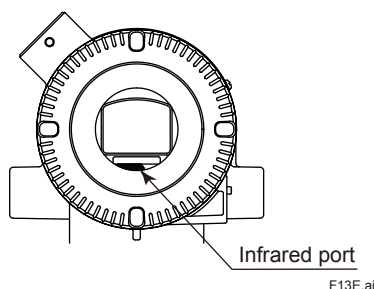
*2: Indicates inside diameter of gasket contact surface.

*3: In case where process flange material is JIS S25C, value of f is 0.

*4: In case where process flange material is 304 SST in ANSI/JPI flange, value of f is included in t.

T15E.ai

● Infrared Configuration



<Ordering Information>

Specify the following when ordering

1. Model, suffix codes, and option codes
2. Calibration range and units:
 - 1) Calibration range can be specified with range value specifications up to 5 digits for low or high range limits within the range of -32000 to 32000. When reverse range is designated, specify LRV as greater than URV. When square root output mode in EJX118B is specified, LRV must be "0(zero)".
 - 2) Specify only one unit from the table, 'Factory setting.'
3. Select linear or square root for output mode and display mode. *1
 Note: If not specified, the instrument is shipped set for linear mode.
4. Display scale and units
 Specify either 0 to 100 % or 'Range and Unit' for engineering units scale:
 Scale range can be specified with range limit specifications up to 5 digits for low or high range limits within the range of -32000 to 32000. Unit display consists of 6-digit, therefore, if the specified scaling unit excluding '/' is longer than 6-characters, the first 6 characters will be displayed on the unit display.
5. Tag Number (if required).
 Specify Tag number (up to 16 letters) to be engraved on the tag plate. The specified letters are written on TAG_Name(16 letters) in the amplifier memory.
6. Software tag
 Specify this software tag when tag number which is different from the tag number specified in the "TAG NUMBER" is required. The tag number specified in "SOFTWARE TAG" will be entered on "TAG" (up to 16 letters) in the amplifier memory.
7. Process fluid temperature for zero compensation (if required)

*1: For EJX118B only.

< Factory Setting >

Tag number	As specified in order
Output mode	'Linear' unless otherwise specified in order
Calibration range lower range value	As specified in order
Calibration range upper range value	As specified in order
Calibration range units	Selected from mmH ₂ O, mmH ₂ O(68°F), mmHg, Pa, kPa, MPa, mbar, bar, gf/cm ² , kgf/cm ² , inH ₂ O, inH ₂ O(68°F), inHg, ftH ₂ O, ftH ₂ O(68°F) or psi. (Only one unit can be specified)
Display setting	Designated differential pressure value specified in order. (% or user scaled value.) Display mode 'Linear' or 'Square root' is also as specified in order.
Static pressure display range*1	'0 to 25 MPa' for M and H capsule, absolute value. Measuring low pressure side.

*1: For EJX118B only.