9. General Specifications

9.1 Standard Specifications

Refer to IM 01C22T02-01E for FOUNDATION Fieldbus communication type and IM 01C22T03-00E for PROFIBUS PA communication type marked with "◊".

● Performance Specifications

See General Specifications sheet, GS 01C22H01-00E.

● Functional Specifications

Span & Range Limits

Measurement Span and Range		kPa	inH2O (/D1)	mbar (/D3)	mmH2O (/D4)
M	Span	2.5 to 100	10 to 400	25 to 1000	250 to 10000
	Range	-100 to 100	-400 to 400	-1000 to 1000	-10000 to 10000
H	Span	25 to 500	100 to 2000	250 to 5000	0.25 to 5 kgf/cm2
	Range	-500 to 500	-2000 to 2000	-5000 to 5000	-5 to 5 kgf/cm2

Measurement range is within the flange rating.

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. Span may be adjusted locally using the digital indicator with range switch.

Output "◊":

Two wire 4 to 20 mA DC output with digital communications, linear or square root programmable. BRAIN or HART FSK protocol are superimposed on the 4 to 20 mA signal.

Failure Alarm:

Output status at CPU failure and hardware error;

Up-scale:
110%, 21.6 mA DC or more(standard)
Down-scale:
-5%, 3.2 mA DC or less or -2.5%, 3.6 mA DC or less(Optional code /F1)

Note: Applicable for Output signal code D and E

Damping Time Constant (1st order):

The sum of the amplifier and capsule damping time constant must be used for the overall time constant. Amp damping time constant is adjustable from 0.2 to 64 seconds.

Capsule (Silicone Oil)	M	H
Time Constant (approx. sec)	0.5	0.5

When the capillary length 5 m and Fill fluid code **A**.

Ambient Temperature Limits:

* Safety approval codes may affect limits.
–40 to 60°C (–40 to 140°F)
–30 to 60°C (–22 to 140°F) with LCD Display

Note: The ambient temperature limits must be within the fill fluid operating temperature range, see Table 9.1.

Process Temperature Limits:

* Safety approval codes may affect limits.
See Table 9.1.

Working Pressure Range:

2.7 kPa {20 mmHg abs} to flange rating pressure.
For atmospheric pressure or below, see Figure 9.1.

● Installation

Supply & Load Requirements "◊":

* Safety approvals can affect electrical requirements.
See Section 5.6, 'Power Supply Voltage and Load Resistance.'

Supply Voltage "◊":

10.5 to 42 V DC for general use and flameproof type
10.5 to 32 V DC for lightning protector (Optional code /A)
10.5 to 30 V DC for intrinsically safe, Type n, nonincendive, or non-sparking type
10.5 to 28 V DC for TIIS intrinsically safe type

EMC Conformity Standards:

EN 61326-1 Class A, Table 2 (For use in industrial locations)
EN 61326-2-3
EN 61326-2-5 (for Fieldbus)
Immunity influence during the test
Differential pressure/pressure: Output shift is specified within ±1% of 1/10 Max span.

Communication Requirements "◊":

BRAIN

Communication Distance;

Up to 2 km (1.25 miles) when using CEV polyethylene-insulated PVC-sheathed cables.
Communication distance varies depending on type of cable used.

Load Capacitance;

0.22 µF or less (see note)

Load Inductance;

3.3 mH or less (see note)

Input Impedance of communicating device;

10 kΩ or more at 2.4 kHz.

Note: For general-use and Flameproof type. For Intrinsically safe type, please refer to 'Optional Specifications.'

HART

Communication Distance;

Up to 1.5 km (1 mile) when using multiple twisted pair cables. Communication distance varies depending on type of cable used.
Use the following formula to determine cable length for specific applications:

$$L = \frac{65 \times 10^6}{(R \times C)} - \frac{(C_f + 10{,}000)}{C}$$

Where:
L = length in meters or feet
R = resistance in Ω (including barrier resistance)
C = cable capacitance in pF/m or pF/ft
C_f = maximum shunt capacitance of receiving devices in pF/m or pF/ft

● Physical Specifications

Wetted Parts Materials:

Diaphragm and other wetted parts;

See 'Model and Suffix Codes'

Non-wetted Parts Materials:

Capillary tube;

SUS316

Protection tube;

SUS304, PVC-sheathed [Max. operating temperature: 100°C (212°F)]

Fill Fluid;

See Table 9.1.

Housing;

Low copper cast-aluminum alloy with polyurethane paint (Munsell 0.6GY3.1/2.0)

Degrees of Protection;

IP67, NEMA4X

Cover O-rings;

Buna-N, Fluoro-rubber (option)

Data plate and tag;

SUS304 or SUS316(option)

Weight:

21.7 kg (47.8 lb): Model EJA118W, 3-inch ANSI Class 150 flange, without mounting bracket.
Add 1.4 kg (3.1 lb) for JIS SCS14A stainless steel amplifier housing.

Connections:

Refer to the 'Model and Suffix Codes' to specify the process and electrical connection type.

Table 9.1 Process Temperature and Ambient Temperature

	Silicone Oil			Fluorinated Oil	Ethylene Glycol
	Fill Fluid Code 'A'	Fill Fluid Code 'B'	Fill Fluid Code 'C'	Fill Fluid Code 'D'	Fill Fluid Code 'E'
Process Temperature*1	–10 to 250°C (14 to 482°F)	–30 to 180°C (–22 to 356°F)	10 to 300°C (50 to 572°F)	–20 to 120°C (–4 to 248°F)	–50 to 100°C (–58 to 212°F)
Ambient temperature*2	–10 to 60°C (14 to 140°F)	–15 to 60°C (5 to 140°F)	10 to 60°C (50 to 140°F)	–10 to 60°C (–14 to 140°F)	–40 to 60°C (–40 to 140°F)
Working pressure	See Figure 9.1			51 kPa abs or more {380 mmHg abs}	Vacuum pressure not allowed
Specific gravity*3	1.07	0.94	1.09	1.90 to 1.92	1.09

*1: See Figure 9.1 '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: 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.

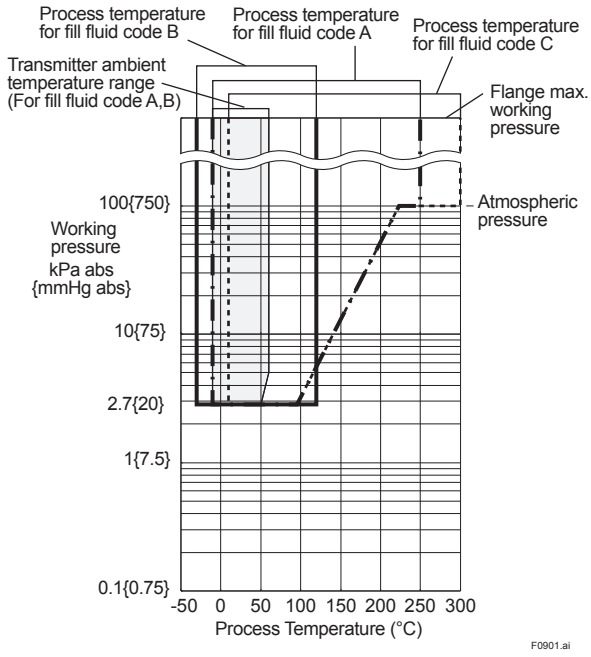

Figure 9.1 Working Pressure and Process Temperature

< Settings When Shipped > "◊"

Tag Number	As specified in order *1
Output Mode	'Linear' unless otherwise specified in order
Display Mode	'Linear' unless otherwise specified in order
Operation Mode	'Normal' unless otherwise specified in order
Damping Time Constant	'2 sec.'
Calibration Range Lower Range Value	As specified in order
Calibration Range Higher Range Value	As specified in order
Calibration Range Units	Selected from mmH_2O, mmAq, mmWG, mmHg, Pa, hPa, kPa, MPa, mbar, bar, gf/cm^2, kgf/cm^2, inH_2O, inHg, ftH_2O, or psi. (Only one unit can be specified)

*1: If Tag No. is no more than 16 alphanumeric characters (including - and ·), it will be written into the tag plate and amplifier memory settings.

9.2 Model and Suffix Codes

● Model EJA118W

Model	Suffix Codes	Description
EJA118W	. . . . .	Diaphragm sealed differential pressure transmitter (Flush diaphragm type)
Output Signal	**-D**	4 to 20 mA DC with digital communication (BRAIN protocol)
	-E	4 to 20 mA DC with digital communication (HART protocol, see IM 01C22T01-01E)
	-F	Digital communication (FOUNDATION Fieldbus protocol, see IM 01C22T02-01E)
	-G	Digital communication (PROFIBUS PA protocol, see IM 01C22T03-00E)
Measurement span (capsule)	**M**	2.5 to 100 kPa {250 to 10000 mmH2O}
	H.	25 to 500 kPa {0.25 to 5 kgf / cm2}
Wetted parts material		[Diaphragm] [Others]
	S.	JIS SUS316L JIS SUS316L
	H.	Hastelloy C-276 Hastelloy C-276
	T.	Tantalum Tantalum *1
	U.	Titanium Titanium
Process 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
	D2.	DIN PN10/16
	D4.	DIN PN25/40
	D5.	DIN PN64
Process flange size / material	**D**.	3-inch (80 mm) / JIS S25C
	E.	3-inch (80 mm) / JIS SUS304
	F.	3-inch (80 mm) / JIS SUS316
	A.	2-inch (50 mm) / JIS S25C
	B.	2-inch (50 mm) / JIS SUS304
	C.	2-inch (50 mm) / JIS SUS316
Cover flange bolts material	**A**.	JIS SCM435
	B.	JIS SUS630
Fill fluid		[Process temp.] [Ambient temp.]
	-A	For general use (silicone oil) –10 to 250°C –10 to 60°C
	-B	For general use (silicone oil) –30 to 180°C –15 to 60°C
	-C	For high temperature use (silicone oil) 10 to 300°C 10 to 60°C
	-D	For oil-prohibited use (fluorinated oil) –20 to 120°C –10 to 60°C
	-E	For low temperature use (ethylene glycol) –50 to 100°C –40 to 60°C
—	**A**.	Always A
Capillary length (m)	□□.	Specify capillary length from 1 to 10 m in □□. (Example for 2 m: 02)
Installation	**-9**	Horizontal impulse piping type, left side high pressure
Electrical connection	**0**	G1/2 female, one electrical connection
	2	1/2 NPT female, two electrical connections without blind plug
	3	PG 13.5 female, two electrical connections without blind plug
	4	M20 female, two electrical connections without blind plug
	5	G1/2 female, two electrical connections and a blind plug
	7	1/2 NPT female, two electrical connections and a blind plug
	8	PG 13.5 female, two electrical connections and a blind plug
	9	M20 female, two electrical connections and a blind plug
	A.	G1/2 female, two electrical connections and a SUS316 blind plug
	C.	1/2 NPT female, two electrical connections and a SUS316 blind plug
	D.	M20 female, two electrical connections and a SUS316 blind plug
Integral indicator	**D**.	Digital indicator
	E.	Digital indicator with the range setting switch
	N.	(None)
Mounting bracket	**A**. . .	JIS SECC 2-inch pipe mounting (flat type)
	B. . .	JIS SUS304 2-inch pipe mounting (flat type)
	J . . .	JIS SUS316 2-inch pipe mounting (flat type)
	N. . .	(None)
Optional codes		/ □ Optional specification

Example: EJA118W-DMSA1A-AA02-92NA/□

*1: In case of wetted parts material code T(Tantalum), maximum process temperature limits is 200°C.

● Model EJA118N

Model	Suffix Codes	Description
EJA118N	.....	Diaphragm sealed differential pressure transmitter (Extended diaphragm type)
Output Signal	**-D**	4 to 20 mA DC with digital communication (BRAIN protocol)
	-E	4 to 20 mA DC with digital communication (HART protocol, see IM 01C22T01-01E)
	-F	Digital communication (FOUNDATION Fieldbus protocol, see IM 01C22T02-01E)
	-G	Digital communication (PROFIBUS PA protocol, see IM 01C22T03-00E)
Measurement span (capsule)	**M**	2.5 to 100 kPa {250 to 10000 mmH_2O}
	H.....	25 to 500 kPa {0.25 to 5 kgf / cm^2}
Wetted parts material	**S**.....	[Diaphragm] [Pipe] [Others] JIS SUS316L JIS SUS316 JIS SUS316
Process 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
Diaphragm extension length (X_2)	**2**	X_2 = 50 mm
	4	X_2 = 100 mm
	6	X_2 = 150 mm
Process flange size / material	**G**.....	4-inch (100 mm) / JIS S25C
	H.....	4-inch (100 mm) / JIS SUS304
	J	4-inch (100 mm) / JIS SUS316
	D.....	3-inch (80 mm) / JIS S25C
	E.....	3-inch (80 mm) / JIS SUS304
	F.....	3-inch (80 mm) / JIS SUS316
Cover flange bolts material	**A**.....	JIS SCM435
	B.....	JIS SUS630
Fill fluid		[Process temp.] [Ambient temp.]
	-A	For general use (silicone oil) –10 to 250°C –10 to 60°C
	-B	For general use (silicone oil) –30 to 180°C –15 to 60°C
	-C	For high temperature use (silicone oil) 10 to 300°C 10 to 60°C
	-D	For oil-prohibited use (fluorinated oil) –20 to 120°C –10 to 60°C
	-E	For low temperature use (ethylene glycol) –50 to 100°C –40 to 60°C
—	**B**.....	Always B
Capillary length (m)	□□.....	Specify capillary length from 1 to 10 m in □□. (Example for 2 m: 02)
Installation	**-9**	Horizontal impulse piping type, left side high pressure
Electrical connection	**0**	G1/2 female, one electrical connection
	2	1/2 NPT female, two electrical connections without blind plug
	3	PG 13.5 female, two electrical connections without blind plug
	4	M20 female, two electrical connections without blind plug
	5	G1/2 female, two electrical connections and a blind plug
	7	1/2 NPT female, two electrical connections and a blind plug
	8	PG 13.5 female, two electrical connections and a blind plug
	9	M20 female, two electrical connections and a blind plug
	A.....	G1/2 female, two electrical connections and a SUS316 blind plug
	C.....	1/2 NPT female, two electrical connections and a SUS316 blind plug
	D.....	M20 female, two electrical connections and a SUS316 blind plug
Integral indicator	**D**.....	Digital indicator
	E.....	Digital indicator with the range setting switch
	N.....	(None)
Mounting bracket	**A**...	JIS SECC 2-inch pipe mounting (flat type)
	B...	JIS SUS304 2-inch pipe mounting (flat type)
	J...	JIS SUS316 2-inch pipe mounting (flat type)
	N...	(None)
Optional codes		/ □ Optional specification

Example: EJA118N-DMSA12GA-AB02-92NA/□

● Model EJA118Y

Model	Suffix Codes	Description
EJA118Y	. . . . .	Diaphragm sealed differential pressure transmitter (Combination of extended diaphragm and flush diaphragm type)
Output Signal	**-D**	4 to 20 mA DC with digital communication (BRAIN protocol)
	-E	4 to 20 mA DC with digital communication (HART protocol, see IM 01C22T01-01E)
	-F	Digital communication (FOUNDATION Fieldbus protocol, see IM 01C22T02-01E)
	-G	Digital communication (PROFIBUS PA protocol, see IM 01C22T03-00E)
Measurement span (capsule)	**M**	2.5 to 100 kPa {250 to 10000 mmH2O}
	H.	25 to 500 kPa {0.25 to 5 kgf / cm2}
High pressure side wetted (extended diaphragmtype) parts material *1	**S**.	[Diaphragm] [Pipe] [Others] JIS SUS316L JIS SUS316 JIS SUS316
Process 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
Diaphragm extension length (X_2)	**2**	X_2 = 50 mm
	4	X_2 = 100 mm
	6	X_2 = 150 mm
Process flange size / material	**P**.	High pressure side 4-inch (100 mm) / JIS S25C Low pressure side 3-inch (80 mm) / JIS S25C
	Q.	High pressure side 4-inch (100 mm) / JIS SUS304 Low pressure side 3-inch (80 mm) / JIS SUS304
	R.	High pressure side 4-inch (100 mm) / JIS SUS316 Low pressure side 3-inch (80 mm) / JIS SUS316
Cover flange bolts material	**A**.	JIS SCM435
	B.	JIS SUS630
Fill fluid		[Process temp.] [Ambient temp.]
	-A	For general use (silicone oil) –10 to 250°C –10 to 60°C
	-B	For general use (silicone oil) –30 to 180°C –15 to 60°C
	-C	For high temperature use (silicone oil) 10 to 300°C 10 to 60°C
	-D	For oil-prohibited use (fluorinated oil) –20 to 120°C –10 to 60°C
	-E	For low temperature use (ethylene glycol) –50 to 100°C –40 to 60°C
—	**C**.	Always C
Capillary length (m)	□□.	Specify capillary length from 1 to 10 m in □□. (Example for 2 m: 02)
Installation	**-9**	Horizontal impulse piping type, left side high pressure
Electrical connection	**0**	G1/2 female, one electrical connection
	2	1/2 NPT female, two electrical connections without blind plug
	3	PG 13.5 female, two electrical connections without blind plug
	4	M20 female, two electrical connections without blind plug
	5	G1/2 female, two electrical connections and a blind plug
	7	1/2 NPT female, two electrical connections and a blind plug
	8	PG 13.5 female, two electrical connections and a blind plug
	9	M20 female, two electrical connections and a blind plug
	A	G1/2 female, two electrical connections and a SUS316 blind plug
	C	1/2 NPT female, two electrical connections and a SUS316 blind plug
	D	M20 female, two electrical connections and a SUS316 blind plug
Integral indicator	**D**	Digital indicator
	E	Digital indicator with the range setting switch
	N	(None)
Mounting bracket	**A** . . .	JIS SECC 2-inch pipe mounting (flat type)
	B . . .	JIS SUS304 2-inch pipe mounting (flat type)
	J . . .	JIS SUS316 2-inch pipe mounting (flat type)
	N . . .	(None)
Optional codes		/ □ Optional specification

Example: EJA118Y-DMSA12PA-AC02-92NA/□

*1: Low pressure side (Flush diaphragm) wetted parts material: Diaphragm and others; SUS316L.

9.3 Optional Specifications

For FOUNDATION Fieldbus explosion protected type, see IM 01C22T02-01E.

For PROFIBUS PA explosion protected type, see IM 01C22T03-00E.

Item	Description	Code
Factory Mutual (FM)	FM Explosionproof Approval *1 Explosionproof for Class I, Division 1, Groups B, C and D Dust-ignitionproof for Class II/III, Division 1, Groups E, F and G Hazardous (classified) locations, indoors and outdoors (NEMA 4X) Division 2, 'SEALS NOT REQUIRED', Temp. Class: T6 Amb. Temp.: –40 to 60°C (–40 to 140°F)	**FF1**
	FM Intrinsically safe Approval *1 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 Hazardous Locations. Nonincendive for Class I, Division 2, Groups A, B, C & D, Class II, Division. 2, Groups E, F & G, and Class III, Division 1 Hazardous Locations. Enclosure: "NEMA 4X", Temp. Class: T4, Amb. Temp.: –40 to 60°C (–40 to 140°F) Intrinsically Safe Apparatus Parameters [Groups A, B, C, D, E, F and G] Vmax=30 V, Imax=165 mA, Pmax=0.9 W, Ci=22.5 nF, Li=730 µH [Groups C, D, E, F and G] Vmax=30 V, Imax=225 mA, Pmax=0.9 W, Ci=22.5 nF, Li=730 µH	**FS1**
	Combined FF1 and FS1 *1	**FU1**
ATEX	ATEX Flameproof Approval *2 Certificate: KEMA 02ATEX2148 II 2G Exd IIC T4, T5, T6 Amb. Temp.: T5; –40 to 80°C (–40 to 176°F), T4 and T6; –40 to 75°C (–40 to 167°F) Max. process Temp.: T4; 120°C (248°F), T5; 100°C (212°F), T6; 85°C (185°F)	**KF21**
	ATEX Intrinsically safe Approval *2 Certificate: KEMA 02ATEX1030X II 1G EEx ia IIC T4, Amb. Temp.: –40 to 60°C (–40 to 140°F) Ui=30 V, Ii=165 mA, Pi=0.9 W, Ci=22.5 nF, Li=730 µH	**KS2**
Canadian Standards Association (CSA)	CSA Explosionproof Approval *1 Certificate: 1089598 Explosionproof for Class I, Division 1, Groups B, C and D Dustignitionproof for Class II/III, Division 1, Groups E, F and G Division2 'SEALS NOT REQUIRED' , Temp. Class: T4, T5, T6 Encl Type 4x Max. Process Temp.: T4; 120°C (248°F), T5; 100°C (212°F), T6; 85°C (185°F) Amb. Temp.: –40 to 80°C (–40 to 176°F) Process Sealing Certification Dual Seal Certified by CSA to the requirement of ANSI/ISA 12.27.01 No additional sealing required. Primary seal failure annunciation : at the zero adjustment screw	**CF1**
	CSA Intrinsically safe Approval *1 Certificate: 1053843 Intrinsically Safe for Class I, Groups A, B, C and D Class II and III, Groups E, F and G Nonincendive for Class I, Division 2, Groups A, B, C and D Class II, Division 2, Groups F and G and Class III (not use Safety Barrier) Encl Type 4x, Temp. Class: T4, Amb. Temp.: –40 to 60°C (–40 to 140°F) Vmax=30 V, Imax=165 mA, Pmax=0.9 W, Ci=22.5 nF, Li=730 µH Process Sealing Certification Dual Seal Certified by CSA to the requirement of ANSI/ISA 12.27.01 No additional sealing required. Primary seal failure annunciation : at the zero adjustment screw	**CS1**
	Combined CF1 and CS1 *1	**CU1**

Item	Description		Code
IECEx Scheme	IECEx Intrinsically safe, type n and Flameproof Approval *3 Intrinsically safe and type n Certificate: IECEx KEM 06.0007X Ex ia IIC T4, Ex nL IIC T4 Enclosure: IP67 Amb. Temp.: –40 to 60°C (–40 to 140°F), Max. Process Temp.: 120°C (248°F) Electrical Parameters: [Ex ia] Ui=30 V, Ii=165 mA, Pi=0.9 W, Ci=22.5 nF, Li=730 µH [Ex nL] Ui=30 V, Ci=22.5 nF, Li=730 µH Flameproof Certificate: IECEx KEM 06.0005 Ex d IIC T6...T4 Enclosure: IP67 Max.Process Temp.: T4;120°C (248°F), T5;100°C (212°F), T6; 85°C (185°F) Amb.Temp.: –40 to 75°C (–40 to 167°F) for T4, –40 to 80°C (–40 to 176°F) for T5, –40 to 75°C (–40 to 167°F) for T6		**SU2**
TIIS certification	TIIS Flameproof Approval, Ex do IIC T4X Certificate: C15296 (Without integral indicator) C15297 (With integral indicator) Amb. Temp.: –20 to 60°C, Process Temp.: –20 to 120°C		**JF3**
	TIIS Intrinsically safe Approval, Ex ia IIC T4 Certificate: C14632 Amb. Temp.: –20 to 60°C, Process Temp.: –20 to 120°C		**JS3**
Attached flameproof packing adapter	Electrical connection: G1/2 female Applicable cable: O. D. 8 to 12 mm	1 pc.	**G11**
		2 pcs.	**G12**

*1: Applicable for Electrical connection code 2 and 7 (1/2 NPT female).
*2: Applicable for Electrical connection code 2, 4, 7 and 9 (1/2 NPT and M20 female).
*3: Applicable for Electrical connection code 2, 4 and 7 (1/2 NPT and M20 female).

Item		Description			Code
Painting	Color change	Amplifier cover only			P□
		Amplifier cover and terminal cover, Munsell 7.5 R4/14			PR
	Coating change	Epoxy resin-baked coating			X1
316 SST exterior parts		Exterior parts on the amprifier housing (name plates, tag plates, zero-adjustment screw, stopper screw) will become 316 or 316L SST.			HC
Fluoro-rubber O-ring		All O-rings of amplifier housing. Lower limit of ambient temperature : –15°C (5°F)			HE
Lightning protector		Transmitter power supply voltag: 10.5 to 32 V DC (9 to 32 V DC for FOUNDATION Fieldbus and PROFIBUS PA communication type.) Allowable current: Max. 6000 A (1×40 μs), Repeating 1000 A (1×40 μs) 100 times			A
Oil-prohibited use		Degrease cleansing treatment			K1
Oil-prohibited use with dehydrating treatment		Degrease cleansing and dehydrating treatment			K5
Calibration units		P calibration (psi unit)	(See Table for Span and Range Limits.)		D1
		bar calibration (bar unit)			D3
		M calibration (kgf/cm^2 unit)			D4
Sealing treatment to JIS SUS630 nuts		Sealant (liquided silicone rubber) is coated on surfaces of SUS630 nuts used for cover flange mounting.			Y
No serration		No serration work on the flange gasket surface (for ANSI flange only)			Q
Teflon film		With FEP film and fluorinated oil Working range: 20 to 150°C, 0 to 2 MPa {0 to 20 kgf/cm^2} (Not usable under vacuum)			T
Operating temperature correction		Adjusting range: 80°C to maximum process temperature according to the specified fill fluid code			R
Capillary without PVC sheaths		When ambient temperature exceeds 100°C, or use of PVC is prohibited			V
Fast response *2		Update time: 0.125 sec or less, see GS for response time			F1
Failure alarm down-scale *1		Output status at CPU failure and hardware error is –5%, 3.2 mA or less.			C1
NAMUR NE43 compliant *1		Output signal limits: 3.8 mA to 20.5 mA	Failure alarm down-scale: output status at CPU failure and hardware error is –5%, 3.2 mA or less.		C2
			Failure alarm up-scale: output status at CPU failure and hardware error is 110%, 21.6 mA or more.		C3
Data configuration at factory		Description into “Descriptor” parameter of HART protocol			CA
Stainless steel amplifier housing		Amplifier housing material: JIS SCS14A stainless steel (equivalent to SUS316 cast stainless steel or ASTM CF-8M)			E1
Gold-plate		Gold-plated diaphragm			A1
Stainless steel tag plate		SUS304 tag plate wired onto transmitter			N4
Mill Certificate		Process flange, Block		(For model EJA118W)	M05
		Process flange, Block, Pipe, Base		(For model EJA118N)	M06
		High pressure side: Process flange, Block, Pipe, Base Low pressure side: Process flange, Block		(For model EJA118Y)	M07
Pressure test/Leak test Certificate		(Flange rating)	(Test pressure)		
		JIS 10K	2 MPa {20 kgf/cm^2}	Nitrogen(N_2) Gas Retention time: 10 minutes	T31
		JIS 20K	5 MPa {50 kgf/cm^2}		T32
		JIS 40K	10 MPa {100 kgf/cm^2}		T33
		ANSI/JPI Class 150	3 MPa {29.8 kgf/cm^2}		T36
		ANSI/JPI Class 300	7.7 MPa {77 kgf/cm^2}		T37
		ANSI/JPI Class 300	7 MPa {70 kgf/cm^2}		T38
		ANSI/JPI Class 600	14 MPa {140 kgf/cm^2}		T39

*1: Applicable for Output signal code D and E. The hardware error indicates faulty amplifier or capsule. When combining with Optional code F1, output status for down-scale is –2.5%, 3.6 mA DC or less.
*2: Applicable for Output signal code D and E. Write protection switch is attached for Output code E.