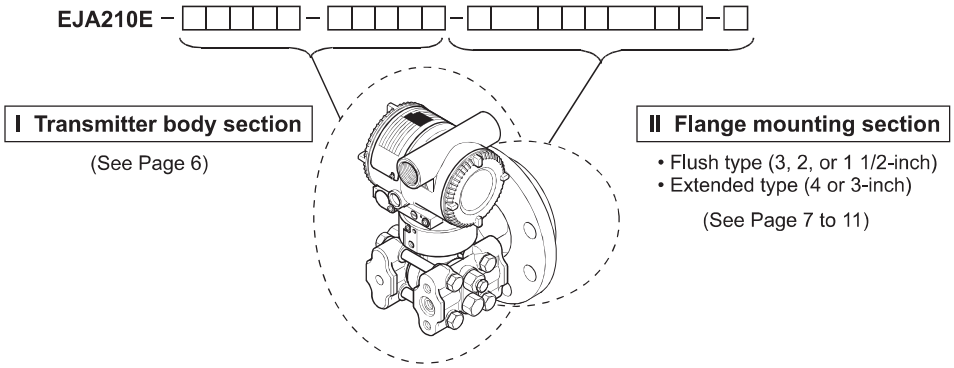
■ MODEL AND SUFFIX CODES

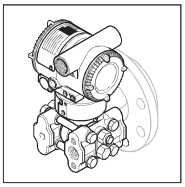
● Instruction

The model and suffix codes for EJA210E consist of two parts; a transmitter body section (I) and a flange mounting section (II). This specification sheet introduces these two parts separately. The transmitter body section is shown in one table, and the flange mounting section specifications are listed according to the flange size and the process connection style. First select the model and suffix codes of transmitter body section and then continue on one of the flange mounting section.



I. Transmitter body section

EJA210E– □□□□□ – □□□□□ –□□□□□□□□–□



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Model	Suffix Codes	Description
EJA210E	.....	Flange mounted differential pressure transmitter
Output signal	**-D**	4 to 20 mA DC with digital communication (BRAIN protocol)
	-J	4 to 20 mA DC with digital communication (HART 5/HART 7 protocol)*1
	-F	Digital communication (FOUNDATION Fieldbus protocol, refer to GS 01C31T02-01EN)
	-G	Digital communication (PROFIBUS PA protocol, refer to GS 01C31T04-01EN)
Measurement span (capsule)	**M**	1 to 100kPa (4 to 400 inH2O)
	H	5 to 500kPa (20 to 2000 inH2O)
Low pressure side wetted parts material	**S**	Refer to "Low Pressure Side Wetted Parts Materials" Table below.
Low pressure side Process connections	**0**	without process connector (Rc 1/4 female on the cover flange)
	1	with Rc 1/4 female process connector
	2	with Rc 1/2 female process connector
	3	with 1/4 NPT female process connector
	4	with 1/2 NPT female process connector
	► **5**	without process connector (1/4 NPT female on the cover flange)
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	**1**	Cast aluminum alloy
	3	Cast aluminum alloy with corrosion resistance properties*2
	2	ASTM CF-8M stainless steel*3
Electrical connection	**0**	G 1/2 female, one electrical connection without blind plugs
	► **2**	1/2 NPT female, two electrical connections without blind plugs
	4	M20 female, two electrical connections without blind plugs
	5	G 1/2 female, two electrical connections with a blind plug *4
	7	1/2 NPT female, two electrical connections with a blind plug *4
	9	M20 female, two electrical connections with a blind plug *4
	A	G1/2 female, two electrical connections and a 316 SST blind plug
	C	1/2 NPT female, two electrical connections and a 316 SST blind plug
	D	M20 female, two electrical connections and a 316 SST blind plug
Integral indicator	**D**	Digital indicator*5
	E	Digital indicator with the range setting switch*6
	► **N**	None
–	**N**	Always N
Flange mounting section		–□□□□□□□□–□ Continued on flange mounting section (II)

The "►" marks indicate the most typical selection for each specification.
*1: HART 5 or HART 7 is selectable. Specify upon ordering.
*2: Not applicable for electrical connection code 0, 5, 7, 9 and A. Content rate of copper in the material is 0.03% or less and content rate of iron is 0.15% or less.
*3: Not applicable for electrical connections code 0, 5, 7 and 9.
*4: Material of a blind plug is aluminum alloy or 304 SST.
*5: Not applicable for output signal code G.
*6: Not applicable for output signal code F.

Table. Low Pressure Side Wetted Parts Materials

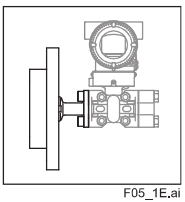
Low pressure side wetted parts material code	Cover flange and process connector	Capsule	Capsule gasket	Drain/Vent plug
S #	ASTM CF-8M *1	Hastelloy C-276 *2 (Diaphragm) F316L SST, 316L SST (Others)	Teflon-coated 316L SST	316 SST

*1: Cast version of 316 SST. Equivalent to SCS14A.
*2: Hastelloy C-276 or ASTM N10276
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175 (2003). Please refer to latest standards for details.

II. Flange mounting section (Flush type)

● Process flange size: 3-inch (80mm)

EJA210E– □□□□□ – □□□□□ – W□ 3 □□□□□ – □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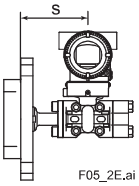
Model	Suffix codes	Description
EJA210E	– □□□□□ – □□□□□	Transmitter body section (I)
Process connection style	-W.....	Flush type
Flange rating	J1	JIS 10K
	J2	JIS 20K
	A1.....	ANSI class 150
	A2.....	ANSI class 300
	P1.....	JPI class 150
	P2.....	JPI class 300
	D2.....	DIN PN10/16
	D4.....	DIN PN25/40
Flange size	3	3-inch (80mm)
Flange material	A.....	JIS S25C
►	B.....	304 SST *10
	C.....	316 SST *10
Gasket contact surface*1	1	Serration (for ANSI flange with wetted parts material SW only)
	2	Flat (no serration)
Wetted parts material (high pressure side) *9	SW	[Diaphragm] 316L SST# / [Others] 316 SST#
	HW	Hastelloy C-276 *7# / Hastelloy C-276 *7#
	TW	Tantalum *8 / Tantalum *8
Flushing connection ring*2	0	[Ring] None / [Vent/Drain plugs] — / [Material] —
►	A.....	Straight type / R 1/4 connections *6 / 316 SST #
	B.....	Straight type / 1/4 NPT connections / 316 SST #
Extension	0	None
Fill fluid	-A ...	For high temperature use (Silicone oil) [Process temperature]*3 –10 to 250°C*4*5 [Ambient temperature] –10 to 85°C
►	-B ...	For general use (Silicone oil) –40 to 120°C –40 to 85°C
	-D ...	For oil prohibited use (Fluorinated oil)*11 –20 to 120°C –20 to 80°C
	-P ...	For sanitary use (Propylene glycol) –10 to 120°C –10 to 85°C
Option codes		/□ Optional specification

The "►" marks indicate the most typical selection for each specification.
Example: EJA210E-DMS5G-912NN-WA13B1SW00-B/□

*1: See Table 3 'Gasket contact surface' on Page 4.
*2: When specified flushing connection ring code A or B, exclusive gasket is provided for transmitter side.
*3: Indicates the process temperature limit of high pressure side.
The process temperature limit for low pressure side is –40 to 120°C except fill fluid code -D.
*4: The distance 'S' is extended in 30mm.
*5: In case of wetted parts material code TW (Tantalum), the process temperature limit is –10 to 200°C.
*6: Not applicable for gasket contact surface code 1.
*7: Hastelloy C-276 or ASTM N10276
*8: Not applicable for flashing connection ring code A and B.
*9: ⚠ 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.
*10: Forged version of the material may be used.
*11: Specify always with option code /K2 or /K6.
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175 (2003).
Please refer to latest standards for details.



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II. Flange mounting section (Flush type)

● Process flange size: 2-inch (50mm)

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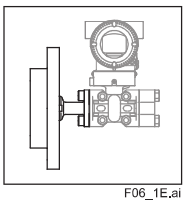
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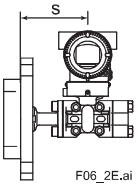
Model	Suffix codes	Description
EJA210E	– □□□□□ – □□□□□	Transmitter body section (I)
Process connection style	-W.....	Flush type
Flange rating	J1 ..... J2 ..... A1..... A2..... P1..... P2..... D2..... D4.....	JIS 10K JIS 20K ANSI class 150 ANSI class 300 JPI class 150 JPI class 300 DIN PN10/16 DIN PN25/40
Flange size	2.....	2-inch (50mm)
Flange material	A..... ► B..... C.....	JIS S25C 304 SST *10 316 SST *10
Gasket contact surface*1	1 ..... 2	Serration (for ANSI flange with wetted parts material WW only) Flat (no serration)
Wetted parts material (high pressure side) *9	WW..... HW..... TW	[Diaphragm] [Others] Hastelloy C-276 *7# 316 SST# Hastelloy C-276 *7# Hastelloy C-276 *7# Tantalum *8 Tantalum *8
Flushing connection ring*2	► 0 ..... A..... B.....	[Ring] [Vent/Drain plugs] [Material] None — — Straight type R 1/4 connections *6 316 SST # Straight type 1/4 NPT connections 316 SST #
Extension	0	None
Fill fluid	-A ... ► -B ... -D ... -P ...	[Process temperature]*3 [Ambient temperature] For high temperature use (Silicone oil) –10 to 250°C*4*5 –10 to 85°C For general use (Silicone oil) –40 to 120°C –40 to 85°C For oil prohibited use (Fluorinated oil)*11 –20 to 120°C –20 to 80°C For sanitary use (Propylene glycol) –10 to 120°C –10 to 85°C
Option codes		/□ Optional specification

The "►" marks indicate the most typical selection for each specification.
Example: EJA210E-DMS5G-912NN-WA12B1WW00-B/□

*1: See Table 3 'Gasket contact surface' on Page 4.
*2: When specified flushing connection ring code A or B, exclusive gasket is provided for transmitter side.
*3: Indicates the process temperature limit of high pressure side.
The process temperature limit for low pressure side is –40 to 120°C except fill fluid code -D.
*4: The distance 'S' is extended in 30mm.
*5: In case of wetted parts material code TW (Tantalum), the process temperature limit is –10 to 200°C.
*6: Not applicable for gasket contact surface code 1.
*7: Hastelloy C-276 or ASTM N10276
*8: Not applicable for flashing connection ring code A and B.
*9: ⚠ 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.
*10: Forged version of the material may be used.
*11: Specify always with option code /K2 or /K6.



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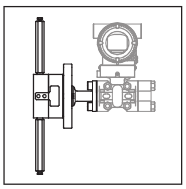
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175 (2003).
Please refer to latest standards for details.

II. Flange mounting section (Flush type)

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

EJA210E – □□□□□ – □□□□□ – W□ 8 □□□□□□ – □



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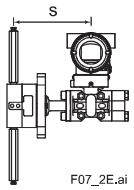
Model	Suffix codes	Description
EJA210E	– □□□□□ – □□□□□	Transmitter body section (I)
Process connection style	-W.	Flush type
Flange rating	J1	JIS 10K
	J2	JIS 20K
	A1	ANSI class 150
	A2	ANSI class 300
	P1	JPI class 150
	P2	JPI class 300
Flange size	8	1 1/2-inch (40mm)
Flange material	► A	JIS S25C
	► B	304 SST *8
	C	316 SST *8
Gasket contact surface*1	1	Serration (for ANSI flange only)
	2	Flat (no serration)
Wetted parts material (high pressure side) *7	WW	[Diaphragm] Hastelloy C-276 *6# / [Others] 316 SST#
Flushing connection ring*2	► C	[Ring] Reducer type / [Vent/Drain plugs] R 1/4 connections *5 / [Material] 316 SST #
	D	[Ring] Reducer type / [Vent/Drain plugs] 1/4 NPT connections / [Material] 316 SST #
Extension	0	None
Fill fluid	-A ...	For high temperature use (Silicone oil) — [Process temperature]*3 –10 to 250°C*4 — [Ambient temperature] –10 to 85°C
	► -B ...	For general use (Silicone oil) — –40 to 120°C — –40 to 85°C
	-D ...	For oil prohibited use (Fluorinated oil)*9 — –20 to 120°C — –20 to 80°C
	-P ...	For sanitary use (Propylene glycol) — –10 to 120°C — –10 to 85°C
Option codes		/□ Optional specification

The "►" marks indicate the most typical selection for each specification.
Example: EJA210E-DMS5G-912NN-WA18B1WWC0-B/□



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*1: See Table 3 'Gasket contact surface' on Page 4.
*2: When specified flushing connection ring code C or D, exclusive gasket is provided for transmitter side.
*3: Indicates the process temperature limit of high pressure side.
The process temperature limit for low pressure side is –40 to 120°C except fill fluid code -D.
*4: The distance 'S' is extended in 30mm.
*5: Not applicable for gasket contact surface code 1.
*6: Hastelloy C-276 or ASTM N10276
*7: ⚠ 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.
*8: Forged version of the material may be used.
*9: Specify always with option code /K2 or /K6.
The '#'marks indicate the construction materials conform to NACE material recommendations per MR0175 (2003).
Please refer to latest standards for details.

II. Flange mounting section (Extended type)

● Process flange size: 4-inch (100mm)

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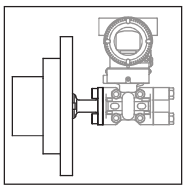
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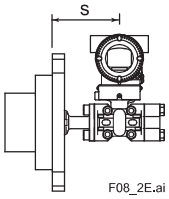
Model	Suffix codes	Description
EJA210E	– □□□□□ – □□□□□	Transmitter body section (I)
Process connection style	-E	Extended type
Flange rating	J1	JIS 10K
	J2	JIS 20K
	A1	ANSI class 150
	A2	ANSI class 300
	P1	JPI class 150
	P2	JPI class 300
	D2	DIN PN10/16
	D4	DIN PN25/40
Flange size	4	4-inch (100mm)
Flange 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 (high pressure side) *4	SE	[Diaphragm] 316L SST# / [Others] 316 SST# / [Pipe] 316 SST#
Flushing connection ring	0	None
Extension	1	Length (X2) = 50mm
	3	Length (X2) = 100mm
	5	Length (X2) = 150mm
Fill fluid	-A ...	For high temperature use (Silicone oil) [Process temperature]*2 –10 to 250°C*3 [Ambient temperature] –10 to 85°C
	► -B ...	For general use (Silicone oil) –40 to 120°C –40 to 85°C
	-D ...	For oil prohibited use (Fluorinated oil)*6 –20 to 120°C –20 to 80°C
	-P ...	For sanitary use (Propylene glycol) –10 to 120°C –10 to 85°C
Option codes		/□ Optional specification

The "►" marks indicate the most typical selection for each specification.
Example: EJA210E-DMS5G-912NN-EA14B1SE01-B/□

*1: See Table 3 'Gasket contact surface' on Page 4.
*2: Indicates the process temperature limit of high pressure side.
The process temperature limit for low pressure side is –40 to 120°C except fill fluid code -D.
*3: The distance 'S' is extended in 30mm.
*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.
*6: Specify always with option code /K2 or /K6.



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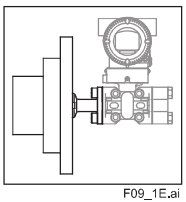
The '#' marks indicate the construction materials conform to NACE material recommendations per MR0175 (2003).
Please refer to latest standards for details.

II. Flange mounting section (Extended type)

● Process flange size: 3-inch (80mm)

EJA210E – □□□□□ – □□□□□ – E ■ 3 ■■■■■■ – ■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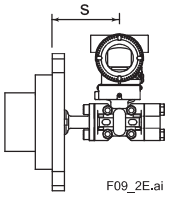
Model	Suffix codes	Description
EJA210E	– □□□□□ – □□□□□	Transmitter body section (I)
Process connection style	-E	Extended type
Flange rating	J1	JIS 10K
	J2	JIS 20K
	A1	ANSI class 150
	A2	ANSI class 300
	P1	JPI class 150
	P2	JPI class 300
	D2	DIN PN10/16
	D4	DIN PN25/40
Flange size	3	3-inch (80mm)
Flange 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 (high pressure side) *5	WE	[Diaphragm] Hastelloy C-276 *4# / [Others] 316 SST# / [Pipe] 316 SST#
Flushing connection ring	0	None
Extension	1	Length (X2) = 50mm
	3	Length (X2) = 100mm
	5	Length (X2) = 150mm
Fill fluid	-A ...	For high temperature use (Silicone oil) [Process temperature]*2 –10 to 250°C*3 [Ambient temperature] –10 to 85°C
	► -B ...	For general use (Silicone oil) –40 to 120°C –40 to 85°C
	-D ...	For oil prohibited use (Fluorinated oil)*7 –20 to 120°C –20 to 80°C
	-P ...	For sanitary use (Propylene glycol) –10 to 120°C –10 to 85°C
Option codes		/□ Optional specification

The "►" marks indicate the most typical selection for each specification.
Example: EJA210E-DMS5G-912NN-EA13B1WE01-B/□

*1: See Table 3 'Gasket contact surface' on Page 4.
*2: Indicates the process temperature limit of high pressure side.
The process temperature limit for low pressure side is –40 to 120°C except fill fluid code -D.
*3: The distance 'S' is extended in 30mm.
*4: Hastelloy C-276 or N10276
*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.
*7: Specify always with option code /K2 or /K6.



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The '#' marks indicate the construction materials conform to NACE material recommendations per MR0175 (2003).
Please refer to latest standards for details.