ELECTRONIC TRANSMITTER with FIELDBUS

DATA SHEET

Fieldbus is a standard digital communication protocol between field instruments and upper control system. This fieldbus standard enables interactive communication among the number of I&C manufactures simultaneously and also the usage by exchanging fieldbus instruments.

FCX-AII Series Electronic Transmitters with FOUNDATION FIELDBUS and PROFIBUS is a fieldbus transmitters utilizing a unique micromachined capacitance silicon sensor with state-of -the-art microporcessor technology and converting the signal of silicon sensor to fieldbus protocol.

This fieldbus transmitter can provide many merits of fieldbus as shown in the following "FEATURES".

FEATURES

1. Fuji Original IC "Frontier-1+ Fieldbus IC"

   "Frontier-1+" the original Fieldbus interface controller IC, developed by Fuji Electric based on IEC Fieldbus Physical Layer Specification, is installed in FCX-AII (Fieldbus version.).

2. Interoperability

   FCX-AII transmitter comply with the latest Foundation Fieldbus specification and PROFIBUS-PA specification and provide full interactive interoperability to other transmitters.

   In addition, FOUNDATION FIELDBUS FCX-AII transmitters are certified and registered by ITK4.0, the latest standard for Interoperability Testing.

3. Reduction of wiring cost

   The reduction of wiring cost of instrumentation is realizing due to multi-drop wiring of fieldbus instruments comparing to the current instruments.

4. High accuracy, high stability and high reliability

   High resolution data transmission with digital communication lead high accuracy, high stability and high reliability.

5. Abundant alarm functions and self-diagnosis

   Abundant alarm and maintenance function defined in Fieldbus specification in addition to process data can be well supported.

   The self-diagnosis including failure of pressure sensor, abnormal of temperature etc. are also provided.

Model Configuration

Differential pressure/flow transmitter [model : FDC] (Standard version and Hydroseal diaphragm version)	
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Level transmitter [model : FDE]	
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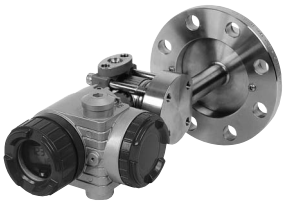

Remote seal type differential pressure/flow transmitter [model : FDD]	
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Remote seal type pressure transmitter [model : FDB]	
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SPECIFICATIONS

(1) Common specifications

Function and Performance

Service: Liquid, gas, and vapour

Output signal: Digital signal based on fieldbus FOUNDATION protocol or PROFIBUS-PA.

Power supply: Transmitter operates on 9V to 32V DC at transmitter terminals.

Quiescent draw current:
16±2mA

Standard:

Foundation fieldbus	Fieldbus Foundation specification(H1). (basic device, device type 113, AI function block)
PROFIBUS-PA	PROFIBUS PROFILE. Order No.3042 PROFIBUS-PA Version 3.0

Transmission cycle (Macro cycle):

Foundation fieldbus	250ms min.
PROFIBUS-PA	250ms fix.

Hazardous locations:

Authorities	Flameproof	Note
ATEX Factory Mutual CSA JIS	Ex II2 GD -EExd IIC T5/T6 Class I II III Div. 1 Groups B thru. G Class I II III Div. 1 Groups C thru. G Ex do IIB+H_2 T4	Ex iaIIC T4 FISCO (Approval pending)

Zero/span adjustment:
Zero and span are adjustable from the host system. Zero is also adjustable externally from the adjustment screw.

Indication: None or 5-digit LCD meter, as specified.

Burnout direction: Selectable from the host system.
If self-diagnostic detect transmitter failure, the output will be driven to either "Output Hold", "Output Overscale" or "Output Underscale" modes.

Temperature limit:

Ambient: –40 to +85°C
(–20 to +80°C for LCD indicator)
(–40 to +60°C for arrester option)
(–10 to +60°C for fluorinated oil filled transmitters)
(–10 to +85°C for silicone oil "H, S, K") } FDB, FDD
(+20 to +85°C for silicone oil "J, T") } FDB, FDD

Ambient: –15 to +65°C
(–15 to +60°C for arrester option)
(–10 to +60°C for fluorinated oil filled transmitter)
(–10 to +60°C for silicone oil "H, S") } FDW, FDX, FDY

For explosionproof units (flameproof or intrinsic safety), ambient temperature must be within the limits specified in each standard.

Process: See individual specifications
Storage: –40 to +90°C
(FDW, FDX, FDY ··· –40 to +70°C)

Humidity limit: 0 to 100% RH

Dielectric strength:
500V AC, 50/60Hz 1 min., between circuit and earth.

Insulation resistance:
More than 100MΩ at 500V DC.

Structure and Material

Electrical connections:
G1/2, 1/2-14 NPT, Pg13.5, or M20 × 1.5 conduit, as specified.
And 1 conduit or 2 conduits, as specified.

Process connections:

Model	Process connections
FDC, FDG, FDA FDE, FDY (LP side)	1/4-18NPT or Rc1/4 on 54mm centers, as specified. Meets DIN 19243.
FDE, FDY (HP side) FDB, FDD, FDW, FDX	ANSI, DIN or JIS raised face frange. See CODE SYMBOLS of each model (5th digit).

Process-wetted parts material:
See CODE SYMBOLS of each model (7th digit)

Non-wetted parts material:
Electronics housing: Low copper die-cast aluminum alloy finished with polyester coating (standard), or 316 stainless steel (SCS14 per JIS G5121), as specified.
Bolts and nuts: Cr-Mo alloy (standard), 304 stainless steel or 630 stainless steel, as specified.
See CODE SYMBOLS of each model.
Fill fluid: Silicone oil (standard) or fluorinated oil (Daifloil)
Mounting bracket: 304 stainless steel

Environmental protection:
IEC IP67 and NEMA 6/6P

Mounting:

Model	Process connections
FDC, FDG, FDA	On 60.5mm (JIS 50A) pope using mounting or direct wall mounting.
FDE, FDY FDB, FDD, FDW, FDX	Direct process mounting.

Optional Specifications

Varies with model or material. So refer to CODE SYMBOLS.

Indicator: An optional 5-digit LCD meter with engineering unit is also available.

Oxygen service: Special cleaning procedures are followed throughout the process to maintain all process wetted parts oil-free.
The fill fluid is fluorinated oil.

Chlorine service: The fill fluid is fluorinated oil.

Degreasing: Process-wetted parts are cleaned, but the fill fluid is standard silicone oil. Not for use on oxygen or chlorine measurement.

NACE specification:
Metallic materials for all pressure boundary parts comply with NACE MR-01-75. ASTM B7M or L7M bolts and 2HM nuts (Class II) are available.
Static pressure rating for code "3" (16 MPa) is degraded to 10MPa.

Vacuum service: Special silicone oil and filling procedure are applied.
See Fig. 1.

Optional tag plate: An extra stainless steel tag with customer tag data is wired to the transmitter.

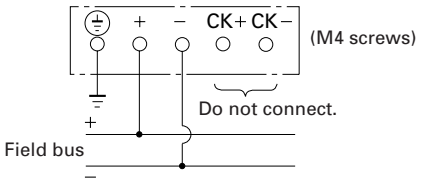
Coating of cell: Cell's surface is finished with epoxy/polyurethane double coating. Specify if environment is extremely corrosive.

Accessories

Oval flanges: (Model FFP, refer to Data Sheet No. EDS6-10)
Converts process connection to 1/2-14 NPT or to Rc1/2; in carbon steel or in 316 stainless steel.

Equalizing valves:
(Model FFN, refer to Data Sheet No. EDS6-10)
Available in Carbon steel or in 316 stainless steel and in pressure rating 16MPa or 42MPa.

Connection diagram



(2) Individual specifications

Zero-based spans, reference conditions, silicone oil fill, SS316 isolating diaphragms, output in linear mode, digital trim values equal to the span setpoints and capillary length of 1.5m.

Diffential Pressure / Flow Transmitter : FDC

Static pressure, range limit:

Type	Static pressure [MPa]	Range limit [kPa]
FDC□11	–0.1 to + 3.2	+/– 1
FDC□22	–0.1 to + 10	+/– 6
FDC□23		+/– 32
FDC□25		+/– 130
FDC□26		+/– 500
FDC□33	–0.1 to + 16	+/– 32
FDC□35		+/– 130
FDC□36		+/– 500
FDC□38		+/– 3000
FDC□43	–0.1 to + 42	+/– 32
FDC□45		+/– 130
FDC□46		+/– 500
FDC□48	–0.1 to + 30	+/– 3000

Over range limit: To maximum static pressure limit

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 1)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Silicone oil (*1)	Y, G, N	–40 to +120°C	2.7 kPa abs
Fluorinated oil	W, A, D	–20 to +80°C	Atmospheric pressure
Silicone oil	R	–15 to +120°C	2.7 kPa abs

Lower limit of static pressure (vacuum limit):
Silicone oil filled sensor: See Fig. 1
Fluorinated oil filled sensor: 66kPa abs (500mmHg abs) at temperature below 60°C

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

Max span above 32kPa model:
For spans greater than 1/10 of URL: ±0.07% of span
For spans below 1/10 of URL:

$$\pm \left(0.02+0.05 \frac{0.1 \times \text{URL}}{\text{Span}}\right) \% \text{ of span}$$

Max span 1kPa, 6kPa model:
For spans greater than 1/10 of URL: ±0.1% of span
For spans below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times \text{URL}}{\text{Span}}\right) \% \text{ of span}$$

Stability: ±0.1% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 40°C and +85°C

Range code (6th digit in Code symbols)	Zero shift	Total effect
"1"/1kPa max. span "2"/6kPa max. span	±0.225%	±0.25%
"3"/32kPa max. span "5"/130kPa max. span "6"/500kPa max. span "8"/3000kPa max. span	±0.0875%	±0.1075%

Static pressure effect:

Static pressure code (5th digit in Code symbols)	Zero shift (% of URL)	Span shift
"1" /1kPa sensor	±0.2% / 1MPa	–0.2% /3.2MPa
"2" /6kPa sensor	±0.2% / 3.2MPa	–0.2% /3.2MPa
"2" "3" "4"	±0.05%/10MPa	–0.2% /10MPa

Overrange effect:

Static pressure code (5th digit in Code symbols)	Zero shift (% of URL)
"1" / 1kPa sensor	±0.3% / 1MPa
"2" / 6kPa sensor	±0.1% / 3.2MPa
"2"	±0.1% /10MPa
"3"	±0.1% /16MPa
"4"	±0.25% /42MPa

Mounting position effect:
Zero shift, less than 0.12kPa for a 10° tilt in any plane.
No effect on span.
This error can be corrected by adjusting Zero.

Mass{weight}: Transmitter approximately 4.4kg without options.

Diffential Pressure / Flow Transmitter Hydroseal Diaphragm version: FDC

Static pressure, range limit:

Type	Static pressure [MPa]	Range limit [KPa]
FDC□ 33	–0.1 to 16	+/– 32
FDC□ 35	–0.1 to 16	+/– 130

Over range limit: To maximum static pressure limit

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 1)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Silicone oil	Y, G, N	–20 to +120°C	2.7 kPa abs
Fluorinated oil	W, A, D	–20 to +80°C	Atmospheric pressure
Silicone oil	R	–15 to +120°C	2.7 kPa abs

Lower limit of static pressure (vacuum limit):
Silicone oil filled sensor: See Fig. 1
Fluorinated oil filled sensor: 66kPa abs (500mmHg abs) at temperature below 60°C

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.
For spans greater than 1/10 of URL: ±0.15% of span
For spans below 1/10 of URL:

$$\pm \left(0.1+0.05 \frac{0.1 \times URL}{Span}\right) \% \text{ of span}$$

Stability: ±0.15% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 40°C and +85°C

Zero shift	Total effect
±0.175%	±0.2%

Static pressure effect:

Zero shift (% of URL)	Span shift
±0.15% /10MPa{100bar}	–0.2% /10MPa{100bar}

Overrange effect:

Range code (6th digit in Code symbols)	Zero shift (% of URL)
"3"	1 % URL / 16MPa
"5"	0.6 % URL / 16MPa

Mounting position effect:
Zero shift, less than 0.12kPa for a 10° tilt in any plane.
No effect on span.
This error can be corrected by adjusting Zero.

Mass{weight}: Transmitter approximately 4.4kg without options.

Pressure Transmitter : FDG

Range and overrange limit:

Type	Range limit [kPa]		Overrange limit [MPa]
	Lower limit	Upper limit	
FDG□01	Permissible negative pressure limit	130	1
FDG□02		500	1.5
FDG□03		3000	9
FDG□04		10000	15
FDG□05		50000	75

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 1)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Silicone oil	Y, G, N	–40 to +100°C	2.7 kPa abs
Fluorinated oil	W, A, D	–20 to +80°C	Atmospheric pressure
Silicone oil	R	–15 to +100°C	2.7 kPa abs

Lower limit of static pressure (vacuum limit):
Silicone oil filled sensor: See Fig. 1
Fluorinated oil filled sensor: 66kPa abs (500mmHg abs) at temperature below 60°C

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

Max span below 10000kPa model:
For spans greater than 1/10 of URL: ±0.07% of span
For spans below 1/10 of URL:

$$\pm \left(0.02+0.05 \frac{0.1 \times URL}{Span}\right) \% \text{ of span}$$

Max span 50000kPa model:
For spans greater than 1/10 of URL: ±0.1% of span
For spans below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times URL}{Span}\right) \% \text{ of span}$$

Stability: ±0.1% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 40°C and +85°C
Zero shift: ±0.0875%
Total effect: ±0.1075%

Overrange effect: Zero shift; 0.2% of URL for any overrange to maximum limit

Mounting position effect:
Zero shift, less than 0.1kPa for a 10° tilt in any plane.
No effect on span. This error can be corrected by adjusting Zero.

Mass{weight}: Transmitter approximately 3.4kg without options.

Pressure Transmitter Hydroseal Diaphragm version: FDG

Static pressure, range limit:

Type	Static pressure [MPa]	Range limit [kPa]		Over range limit [MPa]
		Lower limit	Upper limit	
FDG□07	–0.1 to 0.5	Permissible negative pressure limit	500	1.5
FDG□08	–0.1 to 3		3000	9
FDG□09	–0.1 to 10		10000	15

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 1)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Silicone oil	Y, G, N	–20 to +100°C	2.7 kPa abs
Fluorinated oil	W, A, D	–20 to +80°C	Atmospheric pressure

Lower limit of static pressure (vacuum limit):
Silicone oil filled sensor: See Fig. 1
Fluorinated oil filled sensor: 66kPa abs (500mmHg abs) at temperature below 60°C

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.
For spans greater than 1/10 of URL: ±0.15% of span
For spans below 1/10 of URL:

$$\pm \left(0.1+0.05 \frac{0.1 \times URL}{Span}\right) \% \text{ of span}$$

Stability: ±0.15% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 40°C and +85°C
Zero shift: ±0.2%
Total effect: ±0.225%

Overrange effect: Zero shift; 0.4% of URL for any overrange to maximum limit

Mounting position effect:
Zero shift, less than 0.1kPa for a 10° tilt in any plane.
No effect on span. This error can be corrected by adjusting Zero.

Mass {weight}: Transmitter approximately 3.4kg without options.

Absolute Pressure Transmitter : FDA

Range and overrange limit:

Type	Range limit [kPa abs]	Overrange limit [MPa]
FDA□01	0 to +16	0.5
FDA□02	0 to +130	0.5
FDA□03	0 to +500	1.5
FDA□04	0 to +3000	9

Process temperature and negative pressure tolerance limit:
Process temperature; –40 to +85°C
Negative pressure; Depends on measuring range.

Accuracy rating: (including linearity, hysteresis, and repeatability).
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: ±0.2% of span
For spans below 1/10 of URL:

$$\pm \left(0.1+0.1 \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}} \right) \% \text{ of span}$$

(Option) (code: 21th digit H)
(Not available for Max span 16kPa abs, 130kPa abs)
For spans greater than 1/10 of URL: ±0.1% of span
For spans below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}} \right) \% \text{ of span}$$

Stability: ±0.2% of upper range limit (URL) for 3 years

Temperature effect:
Effect per 28°C change between the limits of –40°C and +85°C
Zero shift: ±0.225%
Total effect: ±0.25%

Overrange effect: Zero shift; ±0.2% of URL for any overrange to maximum limit

Mounting position effect:
Zero shift, less than 0.1kPa for a 10° tilt in any plane.
No effect on span. This error can be corrected by adjusting zero.

Mass{weight}: Transmitter approximately 3.4kg without options.

Level Transmitter : FDE

Static pressure, range limit:

Type	Static pressure	Range limit [kPa]
FDE□□3	Up to flange rating	+/– 32
FDE□□5		+/– 130
FDE□□6		+/– 500

Over range limit: To maximum static pressure limit

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 2, Fig. 3)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Fluorinated oil	W, A, D	–20 to +120°C	Atmospheric pressure
Silicone oil	H	–15 to +250°C	
	J	85 to +300°C	
	Y, G	–40 to +120°C	2.7 kPa abs
	S	–15 to +250°C	
	T	85 to +300°C	
	K	–15 to +150°C	0.13 kPa abs

Low pressure side contact liquid temperature on transmitter of Code "H, J, S, T" is 120°C or lower. Low pressure side contact liquid temperature of Code "K" is 85°C or lower.

Lower limit of static pressure (vacuum limit):
Silicone oil filled sensor: See Fig. 1
Fluorinated oil filled sensor: 66kPa abs (500mmHg abs) at temperature below 60°C

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: ±0.2% of span
For spans below 1/10 of URL:

$$\pm \left(0.1+0.1 \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}} \right) \% \text{ of span}$$

(Option) (Code: 21th digit H, K)
For span greater than 1/10 of URL: 0.1% of span
For span below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}} \right) \% \text{ of span}$$

Stability: ±0.2% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 40°C and + 85°C
(Standard) Zero shift: ±0.35% of URL
Total effect: ±0.5% of URL
(Option) (Code: 21th digit J, K)
Zero shift: ±0.3% of URL
Total effect: ±0.4% of URL

Static pressure effect:
Zero shift: ±0.2% of URL / 1MPa
Span shift: – 0.2% of calibrated span / 1MPa

Overrange effect: Zero shift; ±0.1% of URL for flange rating pressure

Mounting position effect:
Zero shift, less than 0.3kPa for a 10° tilt in any plane. (No extension)
No effect on span.
This error can be corrected by adjusting zero.

Mass{weight}: Transmitter approximately 13kg without options.

Remote Seal Type Diffential Pressure / Flow Transmitter: FDD

Static pressure, range limit:

Type	Static pressure	Range limit [kPa]
FDD□□3	Up to flange rating	+/– 32
FDD□□5		+/– 130
FDD□□6		+/– 500

Over range limit: To maximum static pressure limit
Process temperature and negative pressure tolerance limit:
(For details, see Fig. 2, Fig. 4)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Fluorinated oil	W, A, D	–20 to +120°C	Atmospheric pressure
Silicone oil	H	–15 to +250°C	
	J	+85 to +300°C	
	Y, G	–40 to +120°C	2.7 kPa abs
	S	–15 to +250°C	
	T	+85 to +300°C	
	K	–15 to +200°C	0.13 kPa abs

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: 0.2% of span
For spans below 1/10 of URL:

$$\pm \left(0.1+0.1 \frac{0.1 \times \text{URL}}{\text{Span}} \right) \text{ \% of span}$$

(Option) (Code; 21th digit H,K)
For spans greater than 1/10 of URL: 0.1% of span
For spans below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times \text{URL}}{\text{Span}} \right) \text{ \% of span}$$

Stability: ±0.2% of upper range limit (URL) for 3 years

Temperature effect (*):
Effects per 28°C change between the limits of – 40°C and +85°C
(Standard) Zero shift: ±0.35% of URL
Total effect: ±0.5% of URL
(Option) (Code; 21th digit J,K)
Zero shift: ±0.3% of URL
Total effect: ±0.4% of URL
Note: * Excluding effect by temperature difference between the seals.

Static pressure effect:
Zero shift; 0.2% of URL for flange rating pressure
Span shift: – 0.2% of calibrated span for flange rating pressure

Overrange effect: Zero shift; 0.1% of URL for flange rating pressure

Mass {weight}: Transmitter approximately 15kg without options.

Remote Seal Type Pressure Transmitter: FDB

Range, and overrange limit:

Type	Range limit [kPa]	Overrange limit [MPa]
FDB□□1	–100 to +130	1
FDB□□2	–100 to +500	1.5
FDB□□3	–100 to +3000	9
FDB□□4	–100 to +10000	15
FDB□□5	–100 to +50000	75

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 2, Fig. 4)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Fluorinated oil	W, A, D	–20 to +120°C	Atmospheric pressure
Silicone oil	H	–15 to +250°C	
	J	85 to +300°C	
	Y, G	–40 to +120°C	2.7 kPa abs
	S	–15 to +250°C	
	T	85 to +300°C	
	K	–15 to +200°C	0.13 kPa abs

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: ±0.2% of span
For spans below 1/10 of URL:

$$\pm \left(0.1+0.1 \frac{0.1 \times \text{URL}}{\text{Span}} \right) \text{ \% of span}$$

(Option) (Code; 21th digit H,K)
Not available for Max span 50000kPa model.
For spans greater than 1/10 of URL: ±0.1% of span
For spans below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times \text{URL}}{\text{Span}} \right) \text{ \% of span}$$

Stability: ±0.1% of upper range limit (URL) for 3 years

Temperature effect:
Effect per 28°C change between the limits of – 40°C and +85°C
(Standard) Zero shift: ±0.35% of URL
Total effect: ±0.5% of URL
(Option) (Code; 21th digit J,K)
Zero shift: ±0.3% of URL
Total effect: ±0.4% of URL

Overrange effect: Zero shift; 0.2% of URL for any overrange to maximum limit

Mass {weight}: Transmitter approximately 10kg without options.

Small Frange Level Transmitter : FDY

Static pressure, range limit:

Type	Static pressure	Range limit [kPa]
FDY□□5	Up to flange rating	+/– 130
FDY□□6		+/– 500

Over range limit: To maximum static pressure limit
Process temperature and negative pressure tolerance limit:
(For details, see Fig. 2)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Fluorinated oil	W, A, D	–20 to +80°C	Atmospheric pressure
Silicone oil	H	0 to +250°C	
	Y, G	–40 to +120°C	2.7 kPa abs
	S	0 to +250°C	

Low pressure side contact liquid temperature on transmitter of Code "H, S" is 120°C or lower.

Lower limit of static pressure (vacuum limit):
Silicone oil filled sensor: See Fig. 1
Fluorinated oil filled sensor: 66kPa abs (500mmHg abs) at temperature below 60°C

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: ±0.25% of span
For spans below 1/10 of URL:

$$\pm \left(0.17+0.08 \frac{0.1 \times \text{URL}}{\text{Span}} \right) \text{ \% of span}$$

(Option) (Code: 21th digit H, K)
For spans greater than 1/10 of URL: ±0.1% of span
For span below 1/10 of URL:

$$\pm \left(0.05+0.05 \frac{0.1 \times \text{URL}}{\text{Span}} \right) \text{ \% of span}$$

Stability: ±0.2% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 15°C and + 65°C
Zero shift; ±0.5%
Total shift; ±0.75%
(Option) (Code: 21th digit J, K)
Zero shift; ±0.5%
Total shift; ±0.75%

Where, URL: Maximum span (Upper Range Limit)

Static pressure effect:
Zero shift: ±0.2% of URL/1MPa
Span shift: –0.2% of calibrated span /1MPa

Overrange effect: Zero shift; ±0.1% of URL for flange rating pressure

Mass{weight}: Transmitter approximately 13kg without options.

Small Frange Remote Seal Type Differential Pressure Transmitter: FDX

Static pressure, range limit:

Type	Static pressure	Range limit [kPa]
FDX□□5	Up tp flange rating	+/– 130
FDX□□6		+/– 500

Over range limit: To maximum static pressure limit

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 2, Fig. 4)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Fluorinated oil	W, A, D	–20 to +120°C	Atmospheric pressure
Silicone oil	H	0 to +250°C	
	Y, G	–40 to +120°C	2.7 kPa abs
	S	0 to +250°C	

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, 316SS isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: 0.25% of span
For spans below 1/10 of URL:

$$\pm\left(0.17+0.08\ \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}}\right)\%\ \text{of span}$$

(Option) (Code; 21th digit H,K)
For spans greater than 1/10 of URL: 0.1% of span
For spans below 1/10 of URL:

$$\pm\left(0.05+0.05\ \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}}\right)\%\ \text{of span}$$

Stability: ±0.2% of upper range limit (URL) for 3 years

Temperature effect:
Effects per 28°C change between the limits of – 15°C and +65°C
Zero shift: ±0.5%
Total shift; ±0.75%
(option) (Code; 21th digit J,K)
Zero shift: ±0.5
Total shift; ±0.75%

Where, URL: Maximum span (Upper Range Limit)

Note : Above specifications are based on the conditions that flanges and sensor unit are at the same temperature and in the same level. If temperature is different at flanges, capillary or sensor unit, output variation may increase.

Static pressure effect:
Zero shift; 0.2% of URL/1MPa (10 bar)
Span shift: – 0.2% of calibrated span / 1MPa

Overrange effect: Zero shift; 0.1% of URL for flange nominal pressure

Mass {weight}: Transmitter approximately 15kg without options.

Small Frange Remote Seal Type Pressure Transmitter: FDW

Range, and overrange limit:

Type	Range limit [kPa]	Overrange limit [MPa]
FDW□□3	–100 to +3000	4.5
FDW□□4	–100 to 10000	15

Process temperature and negative pressure tolerance limit:
(For details, see Fig. 2)

Filled oil	13th code	Process temperatuer	Negative pressure tolerance limit
Fluorinated oil	W, A, D	–20 to +120°C	Atmospheric pressure
Silicone oil	H	0 to +250°C	
	Y, G	–40 to +120°C	2.7 kPa abs
	S	0 to +250°C	

Accuracy rating: (including linearity, hysteresis, and repeatability)
Reference conditions, silicone oil fill, SS316 isolating diaphragms.

(Standard)
For spans greater than 1/10 of URL: ±0.25% of span
For spans below 1/10 of URL:

$$\pm\left(0.17+0.08\ \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}}\right)\%\ \text{of span}$$

(Option) (Code; 21th digit H)
For spans greater than 1/10 of URL: ±0.1% of span
For spans below 1/10 of URL:

$$\pm\left(0.05+0.05\ \frac{0.1 \times \mathrm{URL}}{\mathrm{Span}}\right)\%\ \text{of span}$$

Stability: ±0.2% of upper range limit (URL) for 3 years

Temperature effect:
Effect per 28°C change between the limits of – 15°C and +65°C
Zero shift: ±0.5%
Total shift; ±0.75%

Where, URL: Maximum span (Upper Range Limit)

Note : Above specifications are based on the conditions that flange and sensor unit are at the same temperature and in the same level. If temperature is different at flange, capillary or sensor unit, output variation may increase.

Overrange effect: Zero shift; 0.2% of URL/(1.5 x URL)

Mass {weight}: Transmitter approximately 10kg without options.

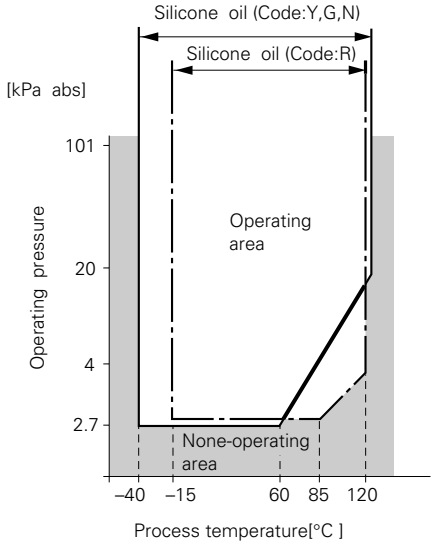


Fig. 1 Relation between process temperature and operating pressure (pressure and differential pressure/flow transmitters)

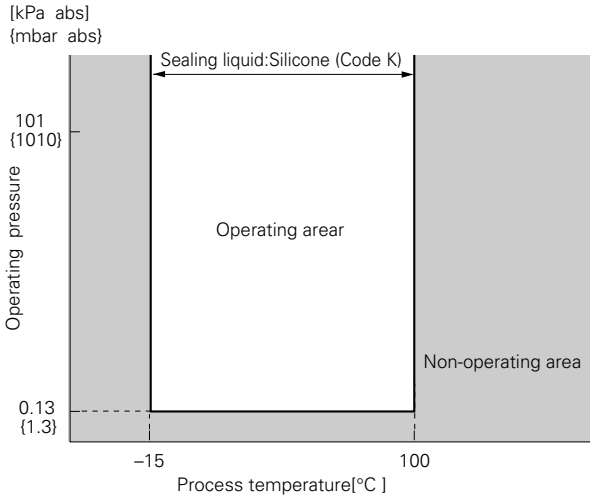


Fig. 3 Relation between process temperature and operating pressure (level transmitters)

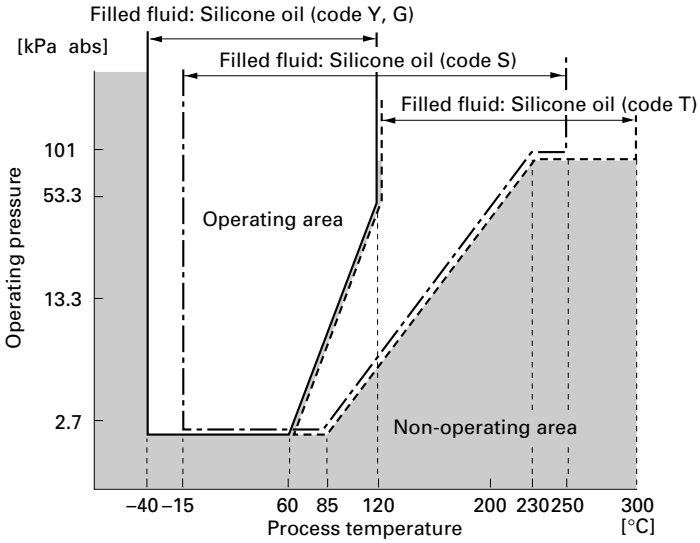


Fig. 2 Relation between process temperature and operating pressure (remote seal type pressure, remote seal type differential pressure and level transmitters)

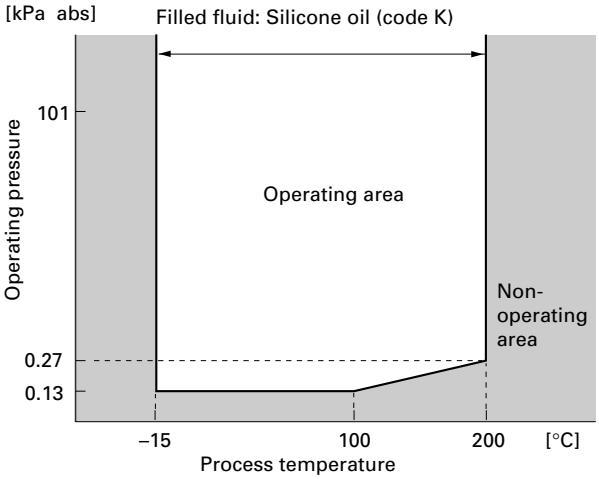


Fig. 4 Relation between process temperature and operating pressure (remote seal type pressure, remote seal type differential pressure and level transmitters)

CODE SYMBOLS

Diffential pressure / flow transmitter : FDC

Digit	Description					Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ← Digit No. of code
							F D C 4 - -
4	<Connection>						
	Process connection	Oval flange screw	Conduit connection				
	Rc1/4	7/16-20UNF	G1/2	(×1)	Combination with 12th digit code "C, E, P, Q" are not available.		A
	1/4-18NPT	7/16-20UNF	1/2-14NPT	(×1)			B
	1/4-18NPT	M10 (or M12)(*1)	Pg 13.5	(×1)		Note 1	C
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	(×1)		Note 1	D
	1/4-18NPT	7/16-20UNF	Pg 13.5	(×1)			E
	Rc1/4	7/16-20UNF	G1/2	(×2)			S
	1/4-18NPT	7/16-20UNF	1/2-14NPT	(×2)			T
	1/4-18NPT	M10 (or M12)(*1)	Pg 13.5	(×2)		Note 1	V
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	(×2)		Note 1	W
	1/4-18NPT	7/16-20UNF	Pg 13.5	(×2)			X
5, 6, 7	<Span and materials>						
	Static pressure [MPa]	Span limit (*2) [kPa]	Process cover	Diaphragm	Wetted cell body	Note 2	
	–0.1 to +3.2	0.1…1	316 stainless steel	316L stainless steel	316 stainless steel		11V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		11J
			316 stainless steel	Hast. C	Hast. C lining		11H
	–0.1 to+10	0.1…6	316 stainless steel	316L stainless steel	316 stainless steel		22V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		22J
			316 stainless steel	Hast. C	Hast. C lining		22H
	–0.1 to+16	0.32…32	316 stainless steel	316L stainless steel	316 stainless steel		33V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		33J
			316 stainless steel	Hast. C	Hast. C lining		33H
			316 stainless steel	Monel	Monel lining		33M
			316 stainless steel	Tantalum	Tantalum lining		33T
		1.3…130	316 stainless steel	316L stainless steel	316 stainless steel		35V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		35J
			316 stainless steel	Hast. C	Hast. C lining		35H
			316 stainless steel	Monel	Monel lining		35M
			316 stainless steel	Tantalum	Tantalum lining		35T
		5…500	316 stainless steel	316L stainless steel	316 stainless steel		36V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		36J
			316 stainless steel	Hast. C	Hast. C lining		36H
			316 stainless steel	Monel	Monel lining		36M
		30…3000	316 stainless steel	Tantalum	Tantalum lining		36T
			316 stainless steel	316L stainless steel	316 stainless steel		38V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		38J
	–0.1 to+42	0.32…32	316 stainless steel	316L stainless steel	316 stainless steel		43V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		43J
			316 stainless steel	Hast. C	Hast. C lining		43H
			316 stainless steel	Monel	Monel lining		43M
		1.3…130	316 stainless steel	316L stainless steel	316 stainless steel		45V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		45J
			316 stainless steel	Hast. C	Hast. C lining		45H
			316 stainless steel	Monel	Monel lining		45M
		5…500	316 stainless steel	316L stainless steel	316 stainless steel		46V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		46J
			316 stainless steel	Hast. C	Hast. C lining		46H
			316 stainless steel	Monel	Monel lining		46M
	–0.1 to+30	30…3000	316 stainless steel	316L stainless steel	316 stainless steel		48V
			316 stainless steel	316L stainless steel +Au coating	316 stainless steel		48J
	–0.1 to+10	0.32…32	Hast. C lining	Hast. C	Hast. C lining		23B
			Monel lining	Monel	Monel lining		23L
			Tantalum lining	Tantalum	Tantalum lining		23U
		1.3…130	Hast. C lining	Hast. C	Hast. C lining		25B
			Monel lining	Monel	Monel lining		25L
			Tantalum lining	Tantalum	Tantalum lining		25U
		5…500	Hast. C lining	Hast. C	Hast. C lining		26B
			Monel lining	Monel	Monel lining		26L
			Tantalum lining	Tantalum	Tantalum lining		26U
	–0.1 to+16	3.2…32	316 stainless steel	316L stainless steel (*3)	316 stainless steel	Note 3	33C
		13…130	316 stainless steel	316L stainless steel (*3)	316 stainless steel	Note 3	35C

Digit	Description	Note	1 2 3 4 5 6 7 8 / F D C _ _ _ _ 4	9 10 11 12 13	14 15 ← Digit No. of code
9	<Digital indicator, arrester and communication> Digital indicator / Arrester / Communication type None / None / Foundation Fieldbus None / Yes / Foundation Fieldbus Yes / None / Foundation Fieldbus Yes / Yes / Foundation Fieldbus None / None / Profibus None / Yes / Profibus Yes / None / Profibus Yes / Yes / Profibus			A E P S R V T W	
10	<Approvals for hazardous, for fieldbus> None (for ordinary locations) TIIS, Flameproof (Conduit seal) TIIS, Flameproof (Cable gland seal) FM, Flameproof (or explosionproof) CSA, Flameproof (or explosionproof) ATEX, Flameproof ATEX, Intrinsic safty (Entity) SAA, Flameproof (or explosionproof) ATEX, FISCO	 Approval pending Approval pending Approval pending Approval pending Note 9		A B C D E X K F 4	
11	<Vent/ drain and mounting bracket> Vent/drain / Mounting bracket Standard / None } Specify "A" or "C" for the 7th Standard / Yes, stainless steel } digit code "B", "L", or "U" Side / None Side / Yes, stainless steel			A C D F	
12	<Options> Extra SS tag plate / Stainless steel elec. housing / Coating of cell None / None / None Yes / None / None None / Yes / None Yes (*4) / Yes / None None / None / Yes Yes / None / Yes None / Yes / Yes Yes / Yes / Yes	Note 4		Y B C E M N P Q	
13	<Special applications and fill fluid> Treatment / Fill fluid Standard / Silicone oil Standard / Fluorinated oil Degreasing / Silicone oil Oxygen service / Fluorinated oil (7th digit code "V" only) Chlorine service / Fluorinated oil (7th digit code "H", "T", "B", "U") NACE specification / Silicone oil (Not available for 7th digit code "T", "U" and 15th digit code "A", "B") Vacuum service / Silicone oil for vacuum use (Not available for 7th digit code "C")			Y W G A D N R	
14	<Sensor O-ring / Gasket> Viton (O-ring) Teflon (gasket)				A B
15	<Bolt/nut> (*8) Cr-Mo alloy hexagon socket head cap screw/carbon steel nut Cr-Mo alloy hexagon bolt/nut NACE bolt/nut (ASTM A193 B7M/A194 2HM) } (*5) NACE bolt/nut (ASTM A320 L7M/A194 2HM) } (*5) 304 stainless steel bolt/304 stainless steel nut (*6) 630 stainless steel bolt/304 stainless steel nut (*7)	Note 8 Note 5 Note 6 Note 7			A B C D E F

Note 1: (*1) The thread is M12, if 42MPa {420bar} static pressure is specified.
Note 2: (*2) 100: 1 turn down is possible, but should be used at the span greater than 1/40 of the maximum span for better performance.
Note 3: (*3) The diaphragm face is coated with gold and ceramic.
Note 4: (*4) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 5: (*5) Static pressure should be –0.1 to +10MPa{–1 to +100bar}.
Note 6: (*6) Available for 5th digit code "1", "2", "3". In case of stainless steel bolt with 5th digit code "3", static pressure should be –0.1 to +10MPa {–1 to + 100bar}.
Note 7: (*7) Available for 5th digit code "3", "4".
Note 8: (*8) In case of tropical use, select stainless bolts and nuts.
Note 9: (*9) In case of 10th code is "4"(ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Pressure transmitter : FDG

Digit	Description				Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ← Digit No. of code
						F D G 0 4 - -
4	<Connections>					
	Process connection	Oval flange screw	Conduit connection			
	Rc1/4	7/16-20UNF	G1/2	(×1)		A
	1/4-18NPT	7/16-20UNF	1/2-14NPT	(×1)	Combination with 12th digit code "C, E, P, Q" are not available.	B
	1/4-18NPT	M10 (or M12)(*1)	Pg13.5	(×1)	Note 1	C
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	(×1)	Note 1	D
	1/4-18NPT	7/16-20UNF	Pg13.5	(×1)		E
	Rc1/4	7/16-20UNF	G1/2	(×2)		S
	1/4-18NPT	7/16-20UNF	1/2-14NPT	(×2)		T
	1/4-18NPT	M10 (or M12)(*1)	Pg13.5	(×2)	Note 1	V
	1/4-18NPT	M10 (or M12)(*1)	M20×1.5	(×2)	Note 1	W
	1/4-18NPT	7/16-20UNF	Pg13.5	(×2)		X
6, 7	<Span and materials>					
	Span limit [kPa](*2)	Process cover	Diaphragm	Wetted cell body	Note 2	
	1.3…130	316 stainless steel	316L stainless steel	316 stainless steel		1V
		316 stainless steel	316L stainless steel +Au Coating	316 stainless steel		1J
		316 stainless steel	Hast. C	Hast. C lining		1H
		316 stainless steel	Monel	Monel lining		1M
		316 stainless steel	Tantalum	Tantalum lining		1T
		Hast. C lining	Hast. C	Hast. C lining		1B
		Monel lining	Monel	Monel lining		1L
		Tantalum lining	Tantalum	Tantalum lining		1U
	5…500	316 stainless steel	316L stainless steel	316 stainless steel		2V
		316 stainless steel	316L stainless steel +Au Coating	316 stainless steel		2J
		316 stainless steel	Hast. C	Hast. C lining		2H
		316 stainless steel	Monel	Monel lining		2M
		316 stainless steel	Tantalum	Tantalum lining		2T
		Hast. C lining	Hast. C	Hast. C lining		2B
		Monel lining	Monel	Monel lining		2L
		Tantalum lining	Tantalum	Tantalum lining		2U
	30…3000	316 stainless steel	316L stainless steel	316 stainless steel		3V
		316 stainless steel	316L stainless steel +Au Coating	316 stainless steel		3J
		316 stainless steel	Hast. C	Hast. C lining		3H
		316 stainless steel	Monel	Monel lining		3M
		316 stainless steel	Tantalum	Tantalum lining		3T
		Hast. C lining	Hast. C	Hast. C lining		3B
		Monel lining	Monel	Monel lining		3L
		Tantalum lining	Tantalum	Tantalum lining		3U
	100…10000	316 stainless steel	316L stainless steel	316 stainless steel		4V
		316 stainless steel	316L stainless steel +Au Coating	316 stainless steel		4J
		316 stainless steel	Hast. C	Hast. C lining		4H
		316 stainless steel	Monel	Monel lining		4M
		316 stainless steel	Tantalum	Tantalum lining		4T
		Hast. C lining	Hast. C	Hast. C lining		4B
		Monel lining	Monel	Monel lining		4L
		Tantalum lining	Tantalum	Tantalum lining		4U
	500…50000	316 stainless steel	316L stainless steel	316 stainless steel		5V
	50…500	316 stainless steel	316L stainless steel	316 stainless steel		7C
	300…3000	316 stainless steel	316L stainless steel	316 stainless steel		8C
	1000…10000	316 stainless steel	316L stainless steel	316 stainless steel		9C
9	<Digital indicator, arrester and communication>					
	Digital indicator	Arrester	Communication type			
	None	None	Foundation Fieldbus			A
	None	Yes	Foundation Fieldbus			E
	Yes	None	Foundation Fieldbus			P
	Yes	Yes	Foundation Fieldbus			S
	None	None	Profibus			R
	None	Yes	Profibus			V
	Yes	None	Profibus			T
	Yes	Yes	Profibus			W

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 ← Digit No. of code F D G 0 4 - - -
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Conduit seal)		B
	TIIS, Flameproof (Cable gland seal)		C
	FM, Flameproof (or explosionproof)		D
	CSA, Flameproof (or explosionproof)	Approval pending	E
	ATEX, Flameproof		X
	ATEX, Intrinsic safty (Entity)	Approval pending	K
	SAA, Flameproof (or explosionproof)	Approval pending	F
	ATEX, FISCO	Approval pending Note5	4
11	<Vent/ drain and mounting bracket> Vent/drain / Mounting bracket Standard / None } Specify "A", or "C" for the 7th digit code "B", "L", or "U" Standard / Yes, stainless steel Side / None Side / Yes, stainless steel		A C D F
12	<Options> Extra SS tag plate (*3) / Stainless steel elec. housing / Coating of cell		
	None / None / None		Y
	Yes / None / None		B
	None / Yes / None	Note3	C
	Yes / Yes / None		E
	None / None / Yes		M
	Yes / None / Yes		N
	None / Yes / Yes		P
	Yes / Yes / Yes		Q
13	<Special applications and fill fluid> Treatment / Fill fluid		
	Standard / Silicone oil		Y
	Standard / Fluorinated oil		W
	Degreasing / Silicone oil		G
	Oxygen service / Fluorinated oil (7th digit code "V" only)		A
	Chlorine service / Fluorinated oil (7th digit code "H", "T", "B", "U")		D
	NACE specification / Silicone oil (Not available for 6th digit code "5", 7th digit code "T", "U", 15th digit code "A", "B")		N
	Vacuum service / Silicone oil for vacuum use(Not available for 7th digit code "C")		R
14	<Sensor O-ring / Gasket>		
	Viton (O-ring)		A
	Teflon (gasket)		B
15	<Bolt/nut> (*4)	Note4	
	Cr-Mo alloy hexagon socket head cap screw/carbon steel nut		A
	Cr-Mo alloy hexagon bolt/nut		B
	NACE bolt/nut (ASTM A193 B7M/A194 2HM) } Not available for 6th digit code "5"		C
	NACE bolt/nut (ASTM A320 L7M/A194 2HM) } Not available for 6th digit code "5"		D
	304 stainless steel bolt/304 stainless steel nut } Not available for 6th digit code "5"		E
	630 stainless steel bolt/304 stainless steel nut } Available for 6th digit code "5"		F

Note 1 : (*1) For 50MPa {500bar} units, M12 is provided rather than M10.
Note 2 : (*2) 100: 1 turn down is possible, but should be used at the span greater than 1/40 of the maximum span for better performance.
Note 3 : (*3) Costomer tag number can be engraved on standartd stainless steel name plate. If extra tag plate is required, select "Yes".
Note 4 : (*4) In case of tropical use, select stainless bolts and nuts.
Note 5: (*5) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Absolute pressure transmitter : FDA

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code
4	<Connections>		F D A [4] 0 [6] [7] 4 - [9] [10] [11] [12] [13] - [14] [15] - [21]
	Process connection / Oval flange screw / Conduit connection		
	Rc1/4 / 7/16-20UNF / G1/2 (×1)		[4] A
	1/4-18NPT / 7/16-20UNF / 1/2-14NPT (×1)		[4] B
	1/4-18NPT / M10 / Pg 13.5 (×1)		[4] C
	1/4-18NPT / M10 / M20×1.5 (×1)		[4] D
	1/4-18NPT / 7/16-20UNF / Pg 13.5 (×1)		[4] E
	Combination with 12th digit code "C, E, P, Q" are not available.		
	Rc1/4 / 7/16-20UNF / G1/2 (×2)		[4] S
	1/4-18NPT / 7/16-20UNF / 1/2-14NPT (×2)		[4] T
	1/4-18NPT / M10 / Pg 13.5 (×2)		[4] V
	1/4-18NPT / M10 / M20×1.5 (×2)		[4] W
	1/4-18NPT / 7/16-20UNF / Pg 13.5 (×2)		[4] X
6, 7	<Span limit>		
	Span limit [kPa abs](*1) / Process cover / Diaphragm / Wetted cell body	Note1	
	1.6...16 / 316 stainless steel / 316L stainless steel / 316 stainless steel		[8] 1V
	316 stainless steel / Hast. C / Hast. C lining		[8] 1H
	316 stainless steel / Monel / Monel lining		[8] 1M
	1.6...130 / 316 stainless steel / 316L stainless steel / 316 stainless steel		[8] 2V
	316 stainless steel / Hast. C / Hast. C lining		[8] 2H
	316 stainless steel / Monel / Monel lining		[8] 2M
	316 stainless steel / Tantalum / Tantalum lining		[8] 2T
	5...500 / 316 stainless steel / 316L stainless steel / 316 stainless steel		[8] 3V
	316 stainless steel / Hast. C / Hast. C lining		[8] 3H
	316 stainless steel / Monel / Monel lining		[8] 3M
	316 stainless steel / Tantalum / Tantalum lining		[8] 3T
	30...3000 / 316 stainless steel / 316L stainless steel / 316 stainless steel		[8] 4V
	316 stainless steel / Hast. C / Hast. C lining		[8] 4H
	316 stainless steel / Monel / Monel lining		[8] 4M
	316 stainless steel / Tantalum / Tantalum lining		[8] 4T
9	<Digital indicator, arrester and communication>		
	Digital indicator / Arrester / Communication type		
	None / None / Foundation Fieldbus		[9] A
	None / Yes / Foundation Fieldbus		[9] E
	Yes / None / Foundation Fieldbus		[9] P
	Yes / Yes / Foundation Fieldbus		[9] S
	None / None / Profibus		[9] R
	None / Yes / Profibus		[9] V
	Yes / None / Profibus		[9] T
	Yes / Yes / Profibus		[9] W
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		[10] A
	TIIS, Flameproof (Conduit seal)		[10] B
	TIIS, Flameproof (Cable gland seal)		[10] C
	FM, Flameproof (or explosionproof)		[10] D
	CSA, Flameproof (or explosionproof)	Approval pending	[10] E
	ATEX, Flameproof		[10] X
	ATEX, Intrinsic safty (Entity)	Approval pending	[10] K
	SAA, Flameproof (or explosionproof)	Approval pending	[10] F
	ATEX, FISCO	Approval pending Note4	[10] 4
11	<Vent/ drain and mounting bracket>		
	Vent/drain / Mounting bracket		
	Standard / None		[11] A
	Standard / Yes, stainless steel		[11] C
	Side / None		[11] D
	Side / Yes, stainless steel		[11] F
12	<Options>		
	Extra SS tag plate / Stainless steel elec. housing / Coating of cell		
	None / None / None		[12] Y
	Yes / None / None		[12] B
	None / Yes / None		[12] C
	Yes (*2) / Yes / None	Note2	[12] E
	None / None / Yes		[12] M
	Yes / None / Yes		[12] N
	None / Yes / Yes		[12] P
	Yes / Yes / Yes		[12] Q

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code
			F D A 0 4 - - -
13	<Special applications and fill fluid> Treatment / Fill fluid Standard / Silicone oil Degreasing / Silicone oil NACE specification / Silicone oil (7th digit code "T" and 15th digit code "A", "B" are not available)		Y G N
14	<Sensor O-ring> Viton		A
15	<Bolt/nut> (*3) Cr-Mo alloy hexagon socket head cap screw/carbon steel nut Cr-Mo alloy hexagon bolt/nut NACE bolt/nut (ASTM A193 B7M/A194 2HM) NACE bolt/nut (ASTM A320 L7M/A194 2HM) 304 stainless steel bolt/304 stainless steel nut	Note 3	A B C D E
21	<Other options> High accuracy type		H

Note 1: (*1) 100: 1 turn down is possible, but should be used at a span greater than 1/40 of the maximum span for better performance.
Note 2: (*2) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 3: (*3) In case of tropical use, select stainless bolts and nuts.
Note 4: (*4) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Level transmitter : FDE

Digit	Description			Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code
					F D E 4 - - - -
4	<Connections>				
	Process connection	Oval flange screw	Conduit connection		
	Rc1/4	7/16-20UNF	G 1/2 (×1)		A
	1/4-18NPT	7/16-20UNF	1/2-14NPT (×1)		B
	1/4-18NPT	M10	Pg13.5 (×1)		C
	1/4-18NPT	M10	M20×1.5 (×1)		D
	1/4-18NPT	7/16-20UNF	Pg13.5 (×1)		E
	Rc1/4	7/16-20UNF	G 1/2 (×2)		S
	1/4-18NPT	7/16-20UNF	1/2-14NPT (×2)		T
	1/4-18NPT	M10	Pg13.5 (×2)		V
	1/4-18NPT	M10	M20×1.5 (×2)		W
	1/4-18NPT	7/16-20UNF	Pg13.5 (×2)		X
	Combination with 12th digit code "C, E, P, Q" are not available.				
5	<Mounting flange>				
	Material	Size and rating			
	304 stainless steel	JIS 10K 80A			0
		JIS 10K 100A			1
		JIS 30K 80A			2
		JIS 30K 100A			3
		ANSI/JPI 150LB 3"			4
		ANSI/JPI 150LB 4"			5
		ANSI/JPI 300LB 3"			6
		ANSI/JPI 300LB 4"			7
		DIN PN40 DN80			8
		DIN PN16 DN100			9
		JIS 20K 80A			M
		ANSI/JPI 600LB 3"			R
	Carbon steel	JIS 10K 80A			A
		JIS 10K 100A			B
		JIS 30K 80A			C
		JIS 30K 100A			D
		ANSI/JPI 150LB 3"			E
		ANSI/JPI 150LB 4"			F
		ANSI/JPI 300LB 3"			G
		ANSI/JPI 300LB 4"			H
		DIN PN40 DN80		Note 1	J
		DIN PN16 DN100			K
	316 stainless steel	JIS 10K 80A			S
		ANSI/JPI 150LB 3B			T
		ANSI/JPI 150LB 4B			U
		ANSI/JPI 300LB 3B			V
		ANSI/JPI 300LB 4B			W
		ANSI/JPI 600LB 3B			X
6	<Span limit (*1) [kPa] >				
	0.32 ----32				3
	1.3 ----130				5
	5 ----500				6
7	<Material>				
	LP side			HP side	
	Process cover	Diaphragm	Wetted sensor body	Diaphragm and flange face	
	316 stainless steel	316 stainless steel	316 stainless steel	316 stainless steel	V
	316 stainless steel	316 stainless steel	316 stainless steel	Hastelloy-C	C
	316 stainless steel	316 stainless steel	316 stainless steel	Monel	D
	316 stainless steel	316 stainless steel	316 stainless steel	Tantalum	E
	316 stainless steel	316 stainless steel	316 stainless steel	Diaphragm: 316L stainless steel +Au coating Flange face: 316 stainless steel	J
	316 stainless steel	Hastelloy-C	Hastelloy-C lining	Hastelloy-C	H
	316 stainless steel	Monel	Monel lining	Monel	M
	316 stainless steel	Tantalum	Tantalum lining	Tantalum	T
	Hastelloy-C lining	Hastelloy-C	Hastelloy-C lining	Hastelloy-C	B
	Monel lining	Monel	Monel lining	Monel	L
	Tantalum lining	Tantalum	Tantalum lining	Tantalum	U
	316 stainless steel	316 stainless steel	316 stainless steel	Titanium	P
	316 stainless steel	316 stainless steel	316 stainless steel	Zirconium	R
				Note 3	
				Note 2, 3	
9	<Digital indicator, arrester and communication>				
	Digital indicator	Arrester	Communication type		
	None	None	Foundation Fieldbus		A
	None	Yes	Foundation Fieldbus		E
	Yes	None	Foundation Fieldbus		P
	Yes	Yes	Foundation Fieldbus		S
	None	None	Profibus		R
	None	Yes	Profibus		V
	Yes	None	Profibus		T
	Yes	Yes	Profibus		W

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code F D E _ _ _ _ 4 - _ _ _ _ - _ _ - _
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Conduit seal)		B
	TIIS, Flameproof (Cable gland seal)		C
	FM, Flameproof (or explosionproof)		D
	CSA, Flameproof (or explosionproof)	Approval pending	E
	ATEX, Flameproof		X
	ATEX, Intrinsic safty (Entity)	Approval pending	K
	SAA, Flameproof (or explosionproof)	Approval pending	F
	ATEX, FISCO	Approval pending Note7	4
11	<Diaphragm extension [mm]> Extension [mm] / Applicable material code 0 / Any 50, 100, 150, 200 / (7th digit code "V" only) 50, 100, 150, 200 / (7th digit code "C", "H", "B", only)		Y A B C D E F G H
12	<Options> Extra SS tag plate / Stainless steel elec. housing / Coating of cell None / None / None Yes / None / None None / Yes / None Yes (* 4) / Yes / None None / None / Yes Yes / None / Yes None / Yes / Yes Yes / Yes / Yes	Note 4	Y B C E M N P Q
13	<Special applications and fill fluid> Treatment / Fill fluid Standard / Silicone oil Standard / Fluorinated oil Degreasing / Silicone oil Oxygen service / Fluorinated oil (7th digit code "V" only) Chlorine service / Fluorinated oil (7th digit code "C", "E", "H", "T", "B", "U") High temp. 250°C / 7th digit code "V", "C", "H", "B" (* 5) High temp. 300°C / 7th digit code "V" (* 5) High temp. and vacuum (250°C) / 7th digit code "V" (* 5) High temp. and vacuum (300°C) / 7th digit code "V" (* 5) High temp. and high vacuum / Silicone oil (* 5)	Note 5	Y W G A D H J S T K
14	<O-ring, gasket and Teflon membrane> O-ring /Gasket / Teflon membrane Viton (O-ring) / None Teflon (gasket) / None Viton (O-ring) / Yes Teflon (gasket) / Yes (5th digit code "0", "2", "4", "6", "8", "A", "C", "E", "G", "J", "M", "R", "S", "T", "V", "X", and 11th digit code "Y" are available. 13th digit code "H, J, S, T, K" are not available.)		A B C D
15	<Bolt/nut> (* 6) Cr-Mo alloy hexagon socket head cap screw/carbon steel nut Cr-Mo alloy hexagon bolt/nut 304 stainless steel bolt /304 stainless steel nut	Note 6	A B E
21	<Other options> High accuracy type Low temperature effect type H+J		H J K

Note 1: (*1) 100: 1 turn down is possible, but should be used at a span greater than 1/40 of the maximum span for better performance.
Note 2: (*2) Material Code R; 6th digit code "6" is not available.
Note 3: (*3) 5th digit code "0, 2, 4, 6, 8, A, C, E, G, J, P, M, R, S, T, V, X" are available.
Note 4: (*4) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes"
Note 5: (*5) Treatment; None
Note 6: (*6) In case of tropical use, select stainless bolts and nuts.
Note 7: (*7) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Remote seal type differential pressure transmitter : FDD

Digit	Description			Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code
					F D D [4] - [ ] [ ] [ ] [ ] [ ] - [ ] [0] - [ ]
4	<Conduit connection>				
	G 1/2 (×1)				A
	1/2-14NPT (×1)				B
	Pg13.5 (×1)				C
	M20 × 1.5 (×1)				D
	Combination with 12th digit code "C, E, P, Q" are not available.				
	G 1/2 (×2)				S
	1/2-14NPT (×2)				T
	Pg13.5 (×2)				V
	M20 × 1.5 (×2)				W
5	<Flange>				
	Mounting flange	Flange size and rating			
	304 stainless steel	JIS 10K 80A			0
		JIS 10K 100A			1
		JIS 30K 80A			2
		JIS 30K 100A			3
		ANSI/JPI 150LB 3"			4
		ANSI/JPI 150LB 4"			5
		ANSI/JPI 300LB 3"			6
		ANSI/JPI 300LB 4"			7
		DIN PN16/40 DN80			8
		DIN PN16 DN100			9
		JIS 20K 80A			M
		ANSI/JPI 600LB 3"			R
	Carbon steel	JIS 10K 80A			A
		JIS 10K 100A			B
		JIS 30K 80A			C
		JIS 30K 100A			D
		ANSI/JPI 150LB 3"			E
		ANSI/JPI 150LB 4"			F
		ANSI/JPI 300LB 3"			G
		ANSI/JPI 300LB 4"			H
		DIN PN16/40 DN80			J
		DIN PN16 DN100			K
	316 stainless steel	JIS 10K 80A			S
		ANSI/JPI 150LB 3"			T
		ANSI/JPI 150LB 4"			U
		ANSI/JPI 300LB 3"			V
		ANSI/JPI 300LB 4"			W
		ANSI/JPI 600LB 3"			X
	None (wafer type)	3 inch wafer			P
		4 inch wafer			Q
6	<Span limit (*1) [kPa]>			Note 1	
	0.32.... 32				3
	1.3..... 130				5
	5..... 500				6
7	<Material/diaphragm extension>				
	Diaphragm	Flange face	Diaph. extension [mm]		
	316L stainless steel	316 stainless steel	0	Note 2	V
			50 (*2)		A
			100 (*2)		B
			150 (*2)		C
			200 (*2)		D
	Hastelloy-C	Hastelloy-C	0		H
			50		F
			100		G
			150		K
			200		L
	316L stainless +Au coating	316 stainless steel	0		J
	Monel	Monel	0		M
	Tantalum	Tantalum	0		T
	Titanium	Titanium	0 (*3)		P
	Zirconium	Zirconium	0 (*3)	Note 3	R
9	<Digital indicator, arrester and communication>				
	Digital indicator	Arrester	Communication type		
	None	None	Foundation Fieldbus		A
	None	Yes	Foundation Fieldbus		E
	Yes	None	Foundation Fieldbus		P
	Yes	Yes	Foundation Fieldbus		S
	None	None	Profibus		R
	None	Yes	Profibus		V
	Yes	None	Profibus		T
	Yes	Yes	Profibus		W

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code F D D 4 - - 0 -
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Conduit seal)		B
	TIIS, Flameproof (Cable gland seal)		C
	FM, Flameproof (or explosionproof)		D
	CSA, Flameproof (or explosionproof)	Approval pending	E
	ATEX, Flameproof		X
	ATEX, Intrinsic safty (Entity)	Approval pending	K
	SAA, Flameproof (or explosionproof)	Approval pending	F
	ATEX, FISCO	Approval pending Note 8	4
11	<Capillary and mounting bracket>		
	Capillary / Mounting bracket / armor of capilary / (*4)		
	1.5 m / 304 Stainless steel / PVC / (*4)	Note 4	D
	3 / 304 Stainless steel / PVC / (*4)	Note 4	E
	5 / 304 Stainless steel / PVC / (*4)	Note 4	L
	6 / 304 Stainless steel / PVC / (*4)	Note 4	F
	7 / 304 Stainless steel / PVC / (*4)	Note 4	M
	8 / 304 Stainless steel / PVC / (*4)	Note 4	N
	10 / 304 Stainless steel / PVC / (*4)	Note 4	P
	1.5 / 304 Stainless steel / Stainless steel / (*5)	Note 5	Q
	3 / 304 Stainless steel / Stainless steel / (*5)	Note 5	R
	5 / 304 Stainless steel / Stainless steel / (*5)	Note 5	S
	6 / 304 Stainless steel / Stainless steel / (*5)	Note 5	T
	7 / 304 Stainless steel / Stainless steel / (*4)	Note 4	V
	8 / 304 Stainless steel / Stainless steel / (*4)	Note 4	W
	10 / 304 Stainless steel / Stainless steel / (*4)	Note 4	X
12	<Options>		
	Extra SS tag plate / Stainless steel elec. housing / Coating of cell		
	None / None / None		Y
	Yes / None / None		B
	None / Yes / None		C
	Yes (*6) / Yes / None	Note 6	E
	None / None / Yes		M
	Yes / None / Yes		N
	None / Yes / Yes		P
	Yes / Yes / Yes		Q
13	<Special applications and fill fluid>		
	Treatment / Fill fluid		
	Standard / Silicone oil		Y
	Standard / Fluorinated oil		W
	Degreasing / Silicone oil		G
	Oxygen service / Fluorinated oil (7th digit code "V", "A", "B", "C" and "D")		A
	Chlorine service / Fluorinated oil (7th digit code "H", "F", "G", "K", "L" and "T")		D
	High temp. 250°C / Silicone oil		H
	High temp. 300°C / Silicone oil		J
	High temp. and vacuum (250°C) / Silicone oil		S
	High temp. and vacuum (300°C) / Silicone oil		T
	High temp. and high vacuum / Silicone oil		K
	7th digit code "V", "A", "B", "C", and "D" (*7)	Note 7	
14	<Teflon membrane>		
	None		Y
	Yes (Available for 5th digit code "0", "2", "4", "6", "8", "A", "C", "E", "G", "J", "P", "M", "R", "S", "T", "V", "X" and 7th digit code "V", "H", "M", "T", "P", "R". Not available for the 13th digit code "H", "J", "S", "T", "K".)		C
21	<Other options>		
	High accuracy type		H
	Low temperature effect type		J
	H+J		K

Note 1: (*1) 100: 1 turn down is possible, but should be used at a span greater than 1/40 of the maximum span for better performance.
Note 2: (*2) In case of 13th digit code "S", "T", "K" and 5th digit code "1", "3", "5", "7", "B", "D", "F", "H", "Q", "K", "U", "W" are available.
Note 3: (*3) Available for 6th digit code "2, 3" and 5th digit code "0, 2, 4, 6, 8, A, C, E, G, J, P, M, R, S, T, W".
Note 4: (*4) Available for 13th digit code "Y, W, G, A, D".
Inquire about in case of 13th other code.
Note 5: (*5) Available for 13th digit code "Y", "W", "G", "A", "D", "H", "J", "S", "T", "K".
Note 6: (*6) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 7: (*7) Treatment; Standard
Note 8: (*8) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Remote seal type pressure transmitter : FDB

Digit	Description			Note	1 2 3 4 5 6 7 8 – 9 10 11 12 13 14 15 21 ← Digit No. of code
					F D B 4
4	<Conduit connection>				
	G1/2 (×1)				A
	1/2-14NPT (×1)	Combination with 12th digit code			B
	Pg13.5 (×1)	"C, E, P, Q" are not available.			C
	M20 × 1.5 (×1)				D
	G1/2 (×2)				S
	1/2-14NPT (×2)				T
	Pg13.5 (×2)				V
	M20 × 1.5 (×2)				W
5	<Flanges>				
	Mounting flange	Flange size and rating	Ranges 1 2 3 4 5		
	304 stainless steel	JIS 10K 80A	* * *		0
		JIS 10K 100A	* * *		1
		ANSI/JPI 150LB "3"	* * *		3
		ANSI/JPI 150LB "4"	* * *		4
		DIN PN16/40 DN80	* * *		6
		DIN PN16 DN100	* * *		7
		JIS 20K 80A	* * *		9
		JIS 30K 80A	* * *		M
		ANSI/JPI 300LB 3B	* * *		S
		ANSI/JPI 600LB 3B	* * *		T
	Carbon steel	JIS 10K 80A	* * *		A
		JIS 10K 100A	* * *		B
		ANSI/JPI 150LB "3"	* * *		D
		ANSI/JPI 150LB "4"	* * *		E
		DIN PN16/40 DN80	* * *		G
		DIN PN16 DN100	* * *		H
		Screw type, JIS/ISO G1	* *		K
	316 stainless steel	ANSI/JPI 150LB 3B	* * *		V
		ANSI/JPI 150LB 4B	* * *		W
		ANSI/JPI 300LB 3B	* * *		X
		ANSI/JPI 300LB 4B	* * *		Y
		ANSI/JPI 600LB 3B	* * *		U
	None (wafer type)	3 inch wafer	* * *		P
		4 inch wafer	* * *		Q
6	<Span limit (*2) [kPa]>			Note 2	
	1.3…130				1
	5…500				2
	30…3000				3
	100…10000	Available only with material code "V"			4
	500…50000				5
7	<Material/diaphragm extension>				
	Diaphragm	Flange face	Diaph. extension [mm]		
	316L stainless steel	316 stainless steel	0	Note 1	V (*1)
			50 (*3)	Note 3	A
			100 (*3)	Note 3	B
			150 (*3)	Note 3	C
			200 (*3)	Note 3	D
	Hastelloy-C	Hastelloy-C	0		H
			50		F
			100		G
			150		K
			200		L
	316L stainless +Au coating	316 stainless steel	0		J
	Monel	Monel	0		M
	Tantalum	Tantalum	0		T
	Titanium	Titanium	0 (*4)	Note 4	P
	Zirconium	Zirconium	0 (*4)	Note 4	R
9	<Digital indicator, arrester and communication>				
	Digital indicator	Arrester	Communication type		
	None	None	Foundation Fieldbus		A
	None	Yes	Foundation Fieldbus		E
	Yes	None	Foundation Fieldbus		P
	Yes	Yes	Foundation Fieldbus		S
	None	None	Profibus		R
	None	Yes	Profibus		V
	Yes	None	Profibus		T
	Yes	Yes	Profibus		W

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code F D B 4 – –
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Conduit seal)		B
	TIIS, Flameproof (Cable gland seal)		C
	FM, Flameproof (or explosionproof)		D
	CSA, Flameproof (or explosionproof)	Approval pending	E
	ATEX, Flameproof		X
	ATEX, Intrinsic safty (Entity)	Approval pending	K
	SAA, Flameproof (or explosionproof)	Approval pending	F
	ATEX, FISCO	Approval pending Note 10	4
11	<Capillary and mounting bracket>		
	Capillary / Mounting bracket / Armor of capillary		
	1.5 m / 304 Stainless steel / PVC (*5)	Note 5	D
	3 / 304 Stainless steel / PVC (*5)	Note 5	E
	5 / 304 Stainless steel / PVC (*5)	Note 5	L
	6 / 304 Stainless steel / PVC (*5)	Note 5	F
	7 / 304 Stainless steel / PVC (*5)	Note 5	M
	8 / 304 Stainless steel / PVC (*5)	Note 5	N
	10 / 304 Stainless steel / PVC (*5)	Note 5	P
	1.5 / 304 Stainless steel / Stainless steel (*6)	Note 6	Q
	3 / 304 Stainless steel / Stainless steel (*6)	Note 6	R
	5 / 304 Stainless steel / Stainless steel (*6)	Note 6	S
	6 / 304 Stainless steel / Stainless steel (*6)	Note 6	T
	7 / 304 Stainless steel / Stainless steel (*5)	Note 5	V
	8 / 304 Stainless steel / Stainless steel (*5)	Note 5	W
	10 / 304 Stainless steel / Stainless steel (*5)	Note 5	X
12	<Options>		
	Extra SS tag plate / Stainless steel elec. housing / Coating of cell (*7)		
	None / None / None		Y
	Yes / None / None		B
	None / Yes / None	Note 7	C
	Yes / Yes / None		E
	None / None / Yes		M
	Yes / None / Yes		N
	None / Yes / Yes		P
	Yes / Yes / Yes		Q
13	<Special applications and fill fluid>		
	Treatment / Fill fluid		
	Standard / Silicone oil		Y
	Standard / Fluorinated oil		W
	Degreasing / Silicone oil		G
	Oxygen service / Fluorinated oil (7th digit code "V", "A", "B", "C" and "D")		A
	Chlorine service / Fluorinated oil (7th digit code "H", "F", "G", "K", "L" and "T")		D
	High temp. 250°C / Silicone oil High temp. 300°C / Silicone oil High temp. and vacuum (250°C) / Silicone oil High temp. and vacuum (300°C) / Silicone oil High temp. and high vacuum / Silicone oil •Available for 6th digit code "1", "2" or "3". In case of 13th code "S", "T", "K", available for 6th digit code "2", "3" only. •Available for 7th digit code "V", "A", "B", "C" or "D". (*8)	Note 8	H J S T K
14	<Teflon membrane>		
	None		Y
	Yes (Available for the 5th digit code "0", "2", "3", "5", "6", "8", "A", "C", "D", "F", "G", "J", "P", "R" and 7th digit code "V", "H", "M", "T", "P", "R". Not available for the 13th digit code "H", "J", "S", "T", "K".)		C
15	<Bolt/nut> (*9)	Note 9	
	None (6th digit code "1", "2", "3")		Y
	Cr-Mo alloy hexagon socket head cap screw/carbon steel nut (6th digit code "4", "5")		A
	Cr-Mo alloy hexagon bolt/carbon steel unit (6th digit code "4", "5")		B
	304 stainless steel/304 stainless steel (6th digit code "4")		E
	630 stainless steel/304 stainless steel (6th digit code "5")		F
21	<Other options>		
	High accuracy type		H
	Low temperature effect type		J
	H+J		K

Note 1: (*1) If range 4 or 5 is selected, specify material "V" in any cases.
Note 2: (*2) 100: 1 turn down is possible, but should be used at a span greater than 1/40 of the maximum span for better performance.
Note 3: (*3) Available for 13th digit code "S", "T", "K" and 5th digit code "1","4","7","B","E","H","Q","T","W","Y".
Note 4: (*4) Available for 6th digit code "2","3" and 5th digit "0","3","6","9","A","D","G","P", "M","S","T","U","V","X".
Note 5: (*5) Available for 13th digit code "Y, W, G, A, D". Inquire about in case of 13th other code.
Note 6: (*6) Available for 13th digit code "Y", "W", "G", "A", "D", "H", "J", "S", "T", "K".
Note 7: (*7) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 8: (*8) Treatment; Standard
Note 9: (*9) In case of tropical use, select stainless bolts and nuts.
Note 10:(*10) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Small frange type level transmitter : FDY

Digit	Description				Note	1 2 3 4 5 6 7 8 - 9 10 11 12 13 - 14 15 - 21 ← Digit No. of code
						F D Y
4	<Connections>					
	Process connection	Oval flange screw	Conduit connection			
	Rc1/4	7/16-20UNF	G 1/2	(×1)		A
	1/4-18NPT	7/16-20UNF	1/2-14NPT	(×1)	Combination with 12th digit code "C, E, P, Q" are not available.	B
	1/4-18NPT	M10 (or M12)	Pg13.5	(×1)		C
	1/4-18NPT	M10 (or M12)	M20×1.5	(×1)		D
	1/4-18NPT	7/16-20UNF	Pg13.5	(×1)		E
	Rc1/4	7/16-20UNF	G 1/2	(×2)		S
	1/4-18NPT	7/16-20UNF	1/2-14NPT	(×2)		T
	1/4-18NPT	M10 (or M12)	Pg13.5	(×2)		V
	1/4-18NPT	M10 (or M12)	M20×1.5	(×2)		W
	1/4-18NPT	7/16-20UNF	Pg13.5	(×2)		X
5	<Mounting flange>					
	Material	Size and rating				
	304 stainless steel	JIS 10K 40A				0
		JIS 10K 50A				1
		JIS 20K 40A				2
		JIS 20K 50A				3
		JIS 30K 40A				4
		JIS 30K 50A				5
		ANSI/JPI 150LB 1 1/2"				A
		ANSI/JPI 150LB 2"				B
		ANSI/JPI 300LB 1 1/2"				C
		ANSI/JPI 300LB 2"				D
	Carbon steel	JIS 10K 40A				G
		JIS 10K 50A				H
		JIS 20K 40A				J
		JIS 20K 50A				K
		JIS 30K 40A				L
		JIS 30K 50A				M
		ANSI/JPI 150LB 1 1/2"				Q
		ANSI/JPI 150LB 2"				R
		ANSI/JPI 300LB 1 1/2"				S
		ANSI/JPI 300LB 2"				T
6	<Span limit [kPa]>				Note1	
	3 -------- 130					5
	12.5 ---- 500					6
7	<Material>					
	LP side			HP side		
	Process cover	Diaphragm	Wetted sensor body	Diaphragm & flange face		
	316 stainless steel	316 stainless steel	316 stainless steel	316 stainless steel		V
	316 stainless steel	316 stainless steel	316 stainless steel	Diaphragm: 316L stainless steel +Au coating		J
	316 stainless steel	316 stainless steel	316 stainless steel	Hastelloy-C		C
	316 stainless steel	316 stainless steel	316 stainless steel	Monel		D
	316 stainless steel	316 stainless steel	316 stainless steel	Tantalum Flange face: 316 stainless steel		E
	316 stainless steel	Hastelloy-C	Hastelloy-C lining	Hastelloy-C		H
	316 stainless steel	Monel	Monel lining	Monel		M
	316 stainless steel	Tantalum	Tantalum lining	Tantalum		T
	Hastelloy-C lining	Hastelloy-C	Hastelloy-C lining	Hastelloy-C		B
	Monel lining	Monel	Monel lining	Monel		L
	Tantalum lining	Tantalum	Tantalum lining	Tantalum		U
9	<Digital indicator, arrester and communication>					
	Digital indicator	Arrester	Communication type			
	None	None	Foundation Fieldbus			A
	None	Yes	Foundation Fieldbus			E
	Yes	None	Foundation Fieldbus			P
	Yes	Yes	Foundation Fieldbus			S
	None	None	Profibus			R
	None	Yes	Profibus			V
	Yes	None	Profibus			T
	Yes	Yes	Profibus			W

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 21 ← Digit No. of code F D Y _ _ _ _ 4 – _ _ _ _ – _ _ – _
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Conduit seal)		B
	TIIS, Flameproof (Cable gland seal)		C
	FM, Flameproof (or explosionproof)		D
	CSA, Flameproof (or explosionproof)	Approval pending	E
	ATEX, Flameproof		X
	ATEX, Intrinsic safty (Entity)	Approval pending	K
	SAA, Flameproof (or explosionproof)	Approval pending	F
	ATEX, FISCO	Approval pending Note 4	4
11	<Diaphragm extension [mm]> Extension [mm] / Applicable material code 0 / Any 50, 100, 150, 200 / (7th digit code "V" only, 1 1/2 in. flange is not applicable)		Y A B C D
12	<Options> Extra SS tag plate / Stainless steel elec. housing / Coating of cell None / None / None Yes / None / None None / Yes / None Yes (*2) / Yes / None	Note 2	Y B C E
	None / None / Yes Yes / None / Yes None / Yes / Yes Yes / Yes / Yes		M N P Q
13	<Special applications and fill fluid> Treatment / Fill fluid Standard / Silicone oil Standard / Fluorinated oil Degreasing / Silicone oil		Y W G
	Oxygen service / Fluorinated oil (7th digit code "V" only) Chlorine service / Fluorinated oil (7th digit code "C", "E", "H", "T", "B", "U") High temp. 250°C / Silicone oil (7th digit code "V" only) High temp. and vacuum (250°C) / Silicone oil (7th digit code "V" only)		A D H S
14	<O-ring / Gasket and Teflon membrane> O-ring / Gasket / Teflon membrane Viton (O-ring) / None Teflon (gasket) / None		A B
	Viton (O-ring) / Yes (11th digit code "Y" only) Teflon (gasket) / Yes (13th digit code "H", "S" are not available.)		C D
15	<Bolt/nut> (*3)	Note 3	
	Cr-Mo alloy hexagon socket head cap screw/carbon steel nut		A
	Cr-Mo alloy hexagon bolt/nut		B
	304 stainless steel bolt / 304 stainless steel nut		E
21	<Other options>		
	High accuracy type		H
	Low temperature effect type		J
	H+J		K

Note 1: (*1) 100: 1 turn down is possible for model FDY, but should be used at a span greater than 1/40 of the maximum span for better performance.
Note 2: (*2) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 3: (*3) In case of tropical use, select stainless bolts and nuts.
Note 4: (*4) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Small frange remote seal type differential pressure transmitter : FDX

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 ← Digit No. of code
			F D X ☐ ☐ ☐ ☐ 4 - ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
4	<Conduit connections>		
	G 1/2 (×1)		A
	1/2 - 14NPT (×1)		B
	Pg13.5 (×1)		C
	M20 × 1.5 (×1)		D
	Combination with 12th digit code "C, E, P, Q" are not available.		
	G 1/2 (×2)		S
	1/2 - 14NPT (×2)		T
	Pg13.5 (×2)		V
	M20 × 1.5 (×2)		W
5	<Flange>		
	Material / Size and rating		
	304 stainless steel / JIS 10K 40A		0
	JIS 10K 50A		1
	JIS 20K 40A		2
	JIS 20K 50A		3
	JIS 30K 40A		4
	JIS 30K 50A		5
	ANSI/JPI 150LB 1 1/2"		A
	ANSI/JPI 150LB 2"		B
	ANSI/JPI 300LB 1 1/2"		C
	ANSI/JPI 300LB 2"		D
	Carbon steel / JIS 10K 40A		G
	JIS 10K 50A		H
	JIS 20K 40A		J
	JIS 20K 50A		K
	JIS 30K 40A		L
	JIS 30K 50A		M
	ANSI/JPI 150LB 1 1/2"		Q
	ANSI/JPI 150LB 2"		R
	ANSI/JPI 300LB 1 1/2"		S
	ANSI/JPI 300LB 2"		T
	None (Wafer type) / 40A, 1 1/2B		W
	50A, 2B		X
	—— / Direct mounting adapter connection (* 1)	Note 1	Y
6	<Span limit [kPa]>		
	3.....130		5
	12.5...500		6
7	<Material/diapharagm extension>		
	Diaphragm / Flange face / Diaphragm extension(mm)		
	316L stainless steel / 316 stainless steel / 0		V
	50		A
	100 (*2)	Note 2	B
	150		C
	200		D
	316L stainless steel +Au coating / 0		J
	Hastelloy-C / Hastelloy-C / 0		H
	Monel / Monel / 0		M
	Tantalum / Tantalum / 0		T
9	<Digital indicator, arrester and communication>		
	Digital indicator / Arrester / Communication type		
	None / None / Foundation Fieldbus		A
	None / Yes / Foundation Fieldbus		E
	Yes / None / Foundation Fieldbus		P
	Yes / Yes / Foundation Fieldbus		S
	None / None / Profibus		R
	None / Yes / Profibus		V
	Yes / None / Profibus		T
	Yes / Yes / Profibus		W
10	<Approvals for hazardous, for fieldbus>		
	None (for ordinary locations)		A
	TIIS, Flameproof (Conduit seal)		B
	TIIS, Flameproof (Cable gland seal)		C
	FM, Flameproof (or explosionproof)		D
	CSA, Flameproof (or explosionproof)	Approval pending	E
	ATEX, Flameproof		X
	ATEX, Intrinsic safty (Entity)	Approval pending	K
	SAA, Flameproof (or explosionproof)	Approval pending	F
	ATEX, FISCO	Approval pending	4
		Note 5	

Digit	Description			Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 ← Digit No. of code
					F D X 4 -
11	<Capillary and mounting bracket>				
	mounting bracket	Capillary	armor of capillary		
	Stainless steel	1.5m	PVC	Note4	D
		3m			E
		5m			L
		1.5m	Stainless steel		Q
		3m			R
		5m			S
12	<Options>				
	Extra tag	tag plate	Stainless steel elec. housing	Coating of cell	
	None		None	None	Y
	Yes		None	None	B
	None	(*3)	Yes	None	C
	Yes		Yes	None	E
	None		None	Yes	M
	Yes		None	Yes	N
	None		Yes	Yes	P
	Yes		Yes	Yes	Q
13	<Treatment/Fill fluid>				
	Treatment	Fill fluid			
	Standard	Silicone oil (for general use)			Y
	Standard	Fluorinated oil			W
	Degreasing	Silicone oil			G
	Oxygen service	Fluorinated oil (7th digit code "V", "A", "B", "C" and "D")			A
	Chlorine service	Fluorinated oil (7th digit code "H" and "T")			D
	High temp. 250°C	Silicone oil (7th digit code "V", "A", "B", "C" and "D")			H
	High temp. and vacuum (250°C)	Silicone oil			S
14	<Teflon membrane>				
	None				Y
	Yes (Available for 7th digit code "V", "H", "M", "T". Not available for 5th digit code "Y" and 13th digit code "H", "S".)				C

Note 1: (*1) Direct mounting adapter type is specified at 16th to 20th digit.
Direct mounting adapter is available only for 7th digit code "V".
Note 2: (*2) Diaphragm extension is available only for 2" (50A) flanges.
Note 3: (*3) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 4: (*4) Availalde for 13th digit code "Y, W, G, A, D".
Inquire about in case of 13th other code.
Note 5: (*5) In case of 10th code is "4" (ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Specifications of Direct Mounting Adapter {for 15, 20A (1/2, 3/4") connection} and others

Note 1. When odering the instrument with direct mounting adapter, specify "Y" in the 5th digit of Code Symbol, and specify 16th digit to 20th digit.
When odering the instrument without direct mounting adapter, nothing should be filled in the 16th to 20th digit.
2. Unless otherwise described in the specifications, leave the 21st digit blank.

Digit	Description	Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 ← Digit No. of code
			F D X 4 - 0
16, 17	<Process connection (direct mounting adapter)>		
	JIS 10K 15A		1 1
	JIS 10K 20A		1 2
	JIS 20K 15A		2 1
	JIS 20K 20A		2 2
	JIS 30K 15A		3 1
	JIS 30K 20A		3 2
	ANSI/JPI 150LB 1/2"		1 H
	ANSI/JPI 150LB 3/4"		1 T
	ANSI/JPI 300LB 1/2"		2 H
	ANSI/JPI 300LB 3/4"		2 T
	Screw connection Rc1/2		S R
	Screw connection Rc3/4		S 2
	Screw connection Rc1/2 - 14NPT		S N
	Screw connection Rc3/4 - 14NPT		S T
18	<Material (direct mounting adapter)>		
	Adapter / Bolts/nuts (* 1)	Note 1	
	316 Stainless Steel / Cr-Mo steel/carbon steel		W
19	<Vent/drain (for direct mounting adapter)>		
	Standard		A
	Long type		N
20	<Gasket (for direct mounting adapter)>		
	Standard (Teflon) (Only Y, W, G, A and D can be specified on 13th digit).		1
	For high temperature (spiral gasket) (Only H and S can be specified on 13th digit).		2
21	<Other options>		
	High accuracy type		H
	Low temperature effect type		J
	H+J		K

Note (*1) For connection of transmitter receiving pressure unit and direct mounting adapter

Small frange remote seal type pressure transmitter : FDW

Digit	Description			Note	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 ← Digit No. of code
					F D W [4] - [0]
4	<Conduit connection>				
	G1/2	(×1)	Combination with 12th digit code "C, E, P, Q" are not available.		A
	1/2 - 14NPT	(×1)			B
	Pg13.5	(×1)			C
	M20×1.5	(×1)			D
	G1/2	(×2)			S
	1/2 - 14NPT	(×2)			T
	Pg13.5	(×2)			V
	M20 X 1.5	(×2)			W
5	<Flange>				
	Material	Size and rating			
	304 stainless steel	JIS 10K 40A			0
		JIS 10K 50A			1
		JIS 20K 40A			2
		JIS 20K 50A			3
		JIS 30K 40A			4
		JIS 30K 50A			5
		JIS 63K 40A			6
		JIS 63K 50A			7
		ANSI/JPI 150LB 1 1/2"			A
		ANSI/JPI 150LB 2"			B
		ANSI/JPI 300LB 1 1/2"			C
		ANSI/JPI 300LB 2"			D
		ANSI/JPI 600LB 1 1/2"			E
		ANSI/JPI 600LB 2"			F
	Carbon steel	JIS 10K 40A			G
		JIS 10K 50A			H
		JIS 20K 40A			J
		JIS 20K 50A			K
		JIS 30K 40A			L
		JIS 30K 50A			M
		JIS 63K 40A			N
		JIS 63K 50A			P
		ANSI/JPI 150LB 1 1/2"			Q
		ANSI/JPI 150LB 2"			R
		ANSI/JPI 300LB 1 1/2"			S
		ANSI/JPI 300LB 2"			T
		ANSI/JPI 600LB 1 1/2"			U
		ANSI/JPI 600LB 2"			V
	None (Wafer type)	40A, 1 1/2B			W
		50A, 2B			X
	——	Direct mounting adapter connection (* 1)		Note 1	Y
6	<Span limit [kPa] >				
	50.....3000				3
	250...10000				4
7	<Material/diapharagm extension>				
	Diaphragm	Flange face	Diaphragm extension (mm)		
	316L stainless steel	316 stainless steel	0		V
			50 (* 2)	Note 2	A
			100 (* 2)		B
			150 (* 2)		C
			200 (* 2)		D
	316L stainless steel +Au coating		0		J
	Hastelloy-C	Hastelloy-C	0		H
	Monel	Monel	0		M
	Tantalum	Tantalum	0		T
9	<Digital indicator, arrester and communication>				
	Digital indicator	Arrester	Communication type		
	None	None	Foundation Fieldbus		A
	None	Yes	Foundation Fieldbus		E
	Yes	None	Foundation Fieldbus		P
	Yes	Yes	Foundation Fieldbus		S
	None	None	Profibus		R
	None	Yes	Profibus		V
	Yes	None	Profibus		T
	Yes	Yes	Profibus		W

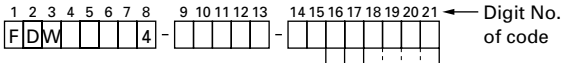
Digit	Description	Note	1 2 3 4 5 6 7 8	9 10 11 12 13	14 15 16 17 18 19 20 21 ← Digit No. of code
			F D W	-	-
10	<Approvals for hazardous, for fieldbus>				
	None (for ordinary locations)			A	
	TIIS, Flameproof (Conduit seal)			B	
	TIIS, Flameproof (Cable gland seal)			C	
	FM, Flameproof (or explosionproof)			D	
	CSA, Flameproof (or explosionproof)	Approval pending		E	
	ATEX, Flameproof			X	
	ATEX, Intrinsic safty (Entity)	Approval pending		K	
	SAA, Flameproof (or explosionproof)	Approval pending		F	
	ATEX, FISCO	Approval pending		4	
		Note6			
11	<Capillary and mounting bracket>				
	Mounting bracket / Capillary / Armor of Capillary				
	Stainless steel / 1.5m / PVC (*5)	Note5		D	
	Stainless steel / 3m / PVC (*5)	Note5		E	
	Stainless steel / 5m / PVC (*5)	Note5		L	
	Stainless steel / 1.5m / Stainless steel			Q	
	Stainless steel / 3m / Stainless steel			R	
	Stainless steel / 5m / Stainless steel			S	
12	<Options>				
	Extra SS tag plate / Stainless steel elec. housing / Coating of cell				
	None / None / None (*3)			Y	
	Yes / None / None (*3)			B	
	None / Yes / None (*3)			C	
	Yes / Yes / None (*3)	Note3		E	
	None / None / Yes (*3)			M	
	Yes / None / Yes (*3)			N	
	None / Yes / Yes (*3)			P	
	Yes / Yes / Yes (*3)			Q	
13	<Special applications and fill fluid>				
	Treatment / Fill fluid				
	Standard / Silicone oil			Y	
	Standard / Fluorinated oil			W	
	Degreasing / Silicone oil			G	
	Oxygen service / Fluorinated oil (7th digit code "V", "A", "B", "C" and "D")			A	
	Chlorine service / Fluorinated oil (7th digit code "H" and "T")			D	
	High temp. 250°C / Silicone oil			H	
	High temp. and vacuum (250°C) / Silicone oil			S	
14	<Teflon membrane>				
	None				Y
	Yes (Available for 7th digit code "V", "H", "M", "T". Not availalbe for 5th digit code "Y", and 13 digit code "H", "S".)				C
15	<Bolt/nut> (*4)	Note4			
	None / 6th digit code "3"				Y
	Cr-Mo alloy hexagon socket head cap bolt/carbon steel nut / 6th digit code "4"				A
	Cr-Mo alloy hexagon bolt/carbon steel nut / 6th digit code "4"				B
	304 stainless steel bolt/304 stainless steel nut / 6th digit code "4"				E

Note 1: (*1) Direct mounting adapter type is specified at 16th to 20th digit.
Direct mounting adapter is available only for 7th digit code "V".
Note 2: (*2) Diaphragm extension is available only for 2" (50A) flanges.
Note 3: (*3) Customer tag number can be engraved on standard stainless steel name plate. If extra tag plate is required, select "Yes".
Note 4: (*4) In case of tropical use, select stainless bolts and nuts.
Note 5: (*5) Available for 13th digit code "Y, W, G, A, D".
Inquire about in case of 13th other code.
Note 6: (*6) In case of 10th code is "4"(ATEX, FISCO), then the 9th code, E, S, V and W (with arrester option) are not available.

Specifications of Direct Mounting Adapter {for 15, 20A (1/2, 3/4") connection} and others

Note 1. When odering the instrument with direct mounting adapter, specify "Y" in the 5th digit of Code Symbol, and specify 16th digit to 20th digit.
When odering the instrument without direct mounting adapter, nothing should be filled in the 16th to 20th digit.
2. Unless otherwise described in the specifications, leave the 21st digit blank.

Digit	Description	Note
16, 17	<Process connection (direct mounting adapter)>	
	JIS 10K 15A	
	JIS 10K 20A	
	JIS 20K 15A	
	JIS 20K 20A	
	JIS 30K 15A	
	JIS 30K 20A	
	JIS 63K 15A	
	JIS 63K 20A	
	ANSI/JPI 150LB 1/2"	
	ANSI/JPI 150LB 3/4"	
	ANSI/JPI 300LB 1/2"	
	ANSI/JPI 300LB 3/4"	
	ANSI/JPI 600LB 1/2"	
	ANSI/JPI 600LB 3/4"	
	Screw connection Rc1/2	
	Screw connection Rc3/4	
	Screw connection Rc1/2 - 14NPT	
	Screw connection Rc3/4 - 14NPT	
18	<Material (direct mounting adapter)> Adapter Bolts/nuts (* 1) 316 Stainless Steel Cr-Mo steel/carbon steel	Note 1
19	<Vent/drain (for direct mounting adapter)> Standard Long type	
20	<Gasket (for direct mounting adapter)> Standard (Teflon)(Only Y, W, G, A and D can be specified on 13th digit).	
	For high temperature (spiral gasket) (Only H and S can be specified on 13th digit).	
21	<Other options> High accuracy type	



16	17	18	19	20	21
1	1				
1	2				
2	1				
2	2				
3	1				
3	2				
6	1				
6	2				
1	H				
1	T				
2	H				
2	T				
4	H				
4	T				
S	R				
S	2				
S	N				
S	T				
		W			
			A		
			N		
				1	
				2	
					H

Note1: (* 1) For connection of transmitter receiving pressure unit and direct mounting adapter

ORDERING INFORMATION

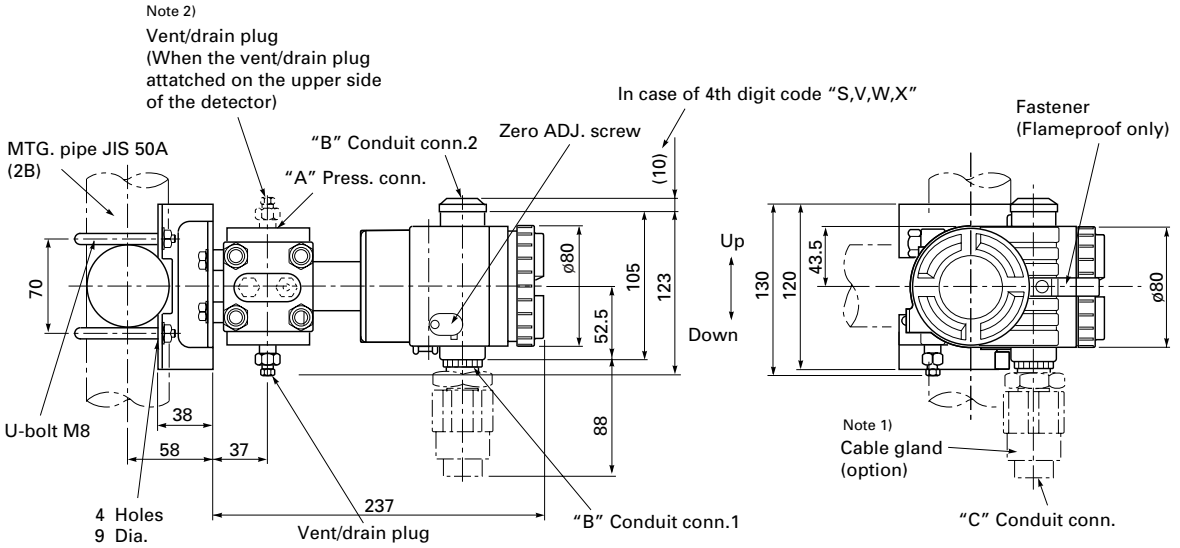
When ordering this instrument, specify:

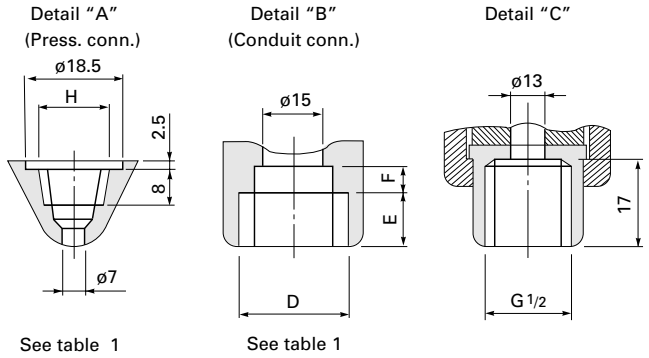
1. CODE SYMBOLS
2. Calibration range (XD_SCALE) and unit (CAL_UNIT)
   - Unless specified, the range is maximum span.
3. Output scale and unit (OUT_SCALE)
   - Unless specified, the scale is the same as the calibration range.
4. Output mode (L_TYPE)
   - Select any of Direct/Indirect Linear/Indirect SORT.
   - Unless otherwise specified,
     ① In case of output scale in flow rates
     Indirect SORT (extraction output)
     ② In case of other units
     Indirect linear (proportional output)
5. Low flow rate cut point (specify only when needed for flow measurement)
   - Specify in percentages of output scale
6. Output orientation (burnout direction) when abnormality is occurred in the transmitter.
   Select Hold / Overscale / Underscale.
   Unless specified, output hold function is supplied.
7. Setting of external zero adjustment SW
   - Select either of "valid" and "invalid"
   - Unless otherwise specified, "valid" is selected.
8. Tag No.
   - Up to 26 alphanumerical characters.
   - Unless otherwise specified, the tag No. is EFB-002 (but, not stamped).
9. Node address (if required)
   - Unless specified, "0 × F0"(Foundation Fieldbus), "0 × 03"(Profibus)
10. Display scale and unit (specify only for the transmitter with a digital indicator)
    - For the settable range, contact Fuji Electric Co. Ltd.
    - No low flow cut is performed
    - Unless otherwise specified, it conforms to the output scale.

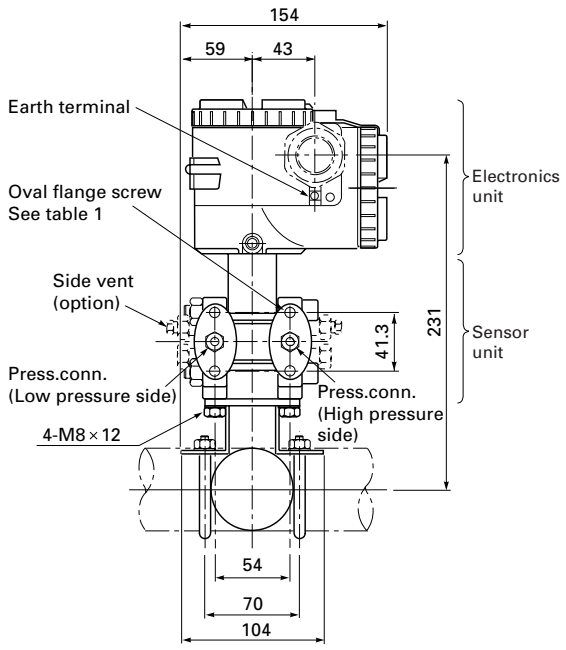
OUTLINE DIAGRAM OF EACH STANDARD MODEL (Unit:mm)

Differential pressure / flow transmitter : FDC

< 7th digit code without : B, L, U >







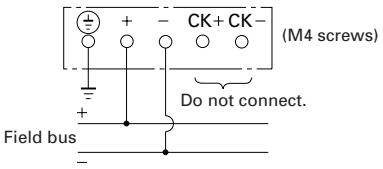
4th digit of the code symbols	Conduit conn.			Press. conn.	Oval flange screw
	D	E	F	H	
A, S	G1/2	17	8	Rc1/4	7/16-20UNF Screw depth 15
B, T	1/2-14NPT	16	5	1/4-18NPT	7/16-20UNF Screw depth 15
C, V	Pg13.5	8	4.5	1/4-18NPT	M10 Screw depth 15
D, W	M20×1.5	16	5	1/4-18NPT	M10 Screw depth 15
E, X	Pg13.5	8	4.5	1/4-18NPT	7/16-20UNF Screw depth 15

Table 1

Note 1) Cable gland is supplied in case of flameproof packing type. ø11 cable is suitable.

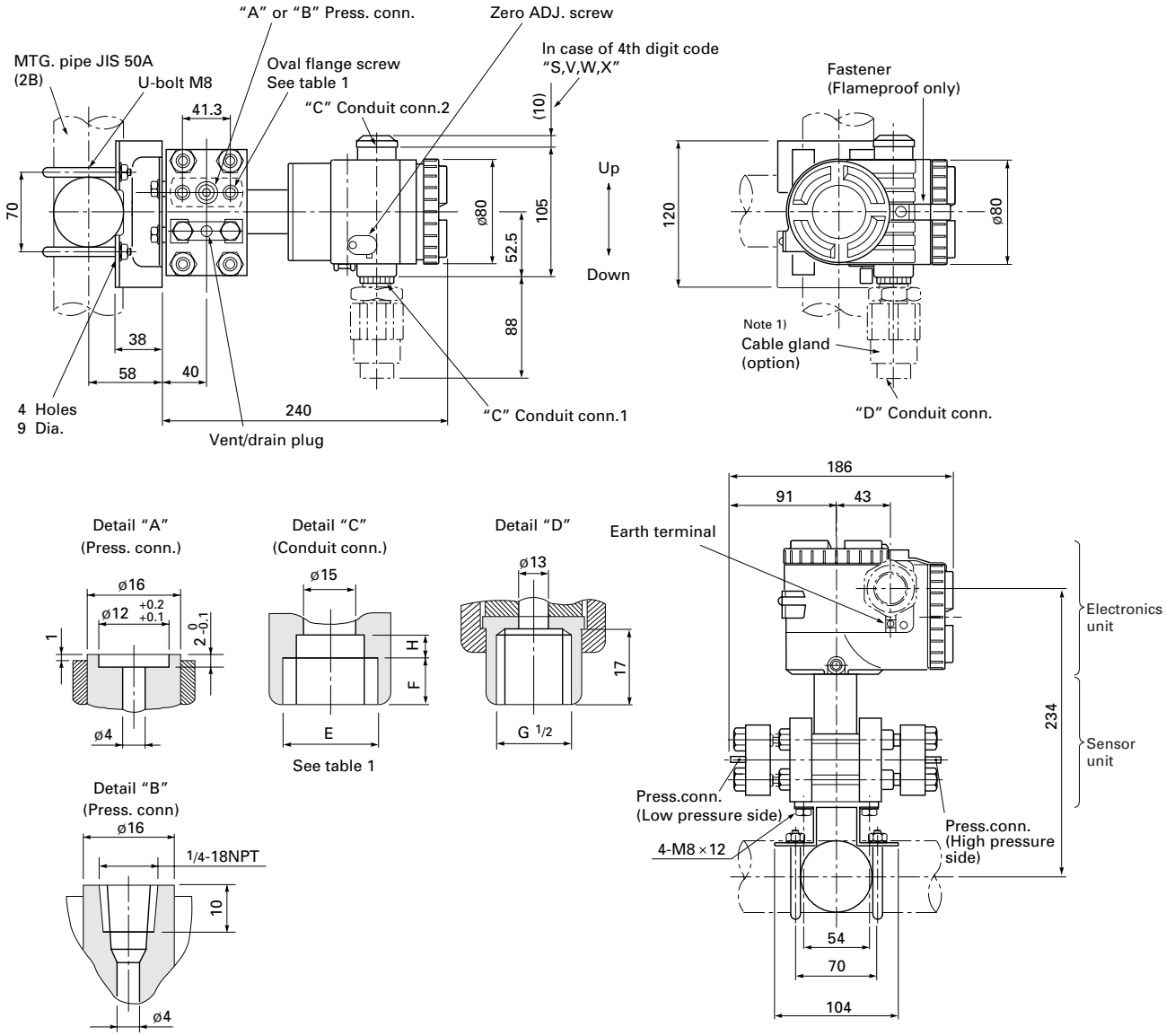
Note 2) The pressure connector is located on the down side surface of the detector, when the vent /drain plug is attatched on the upper side of the detector.

CONNECTION DIAGRAM



Differential pressure / flow transmitter : FDC

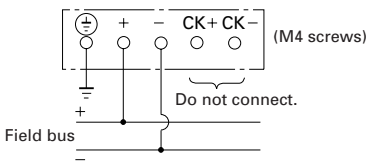
< 7th digit code : B, L, U >



4th digit of the code symbols	Conduit conn. E	F	H	Oval flange screw
A, S	G1/2	17	8	7/16-20UNF Screw depth 10
B, T	1/2-14NPT	16	5	7/16-20UNF Screw depth 10
C, V	Pg13.5	8	4.5	M10 Screw depth 10
D, W	M20×1.5	16	5	M10 Screw depth 10
E, X	Pg13.5	8	4.5	7/16-20UNF Screw depth 10

Table 1

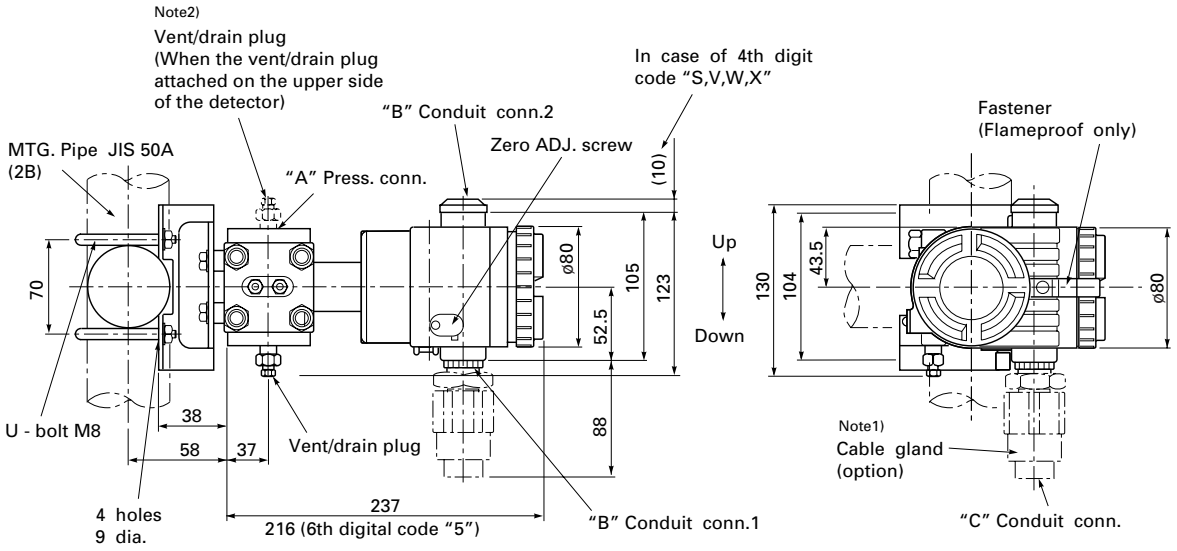
CONNECTION DIAGRAM

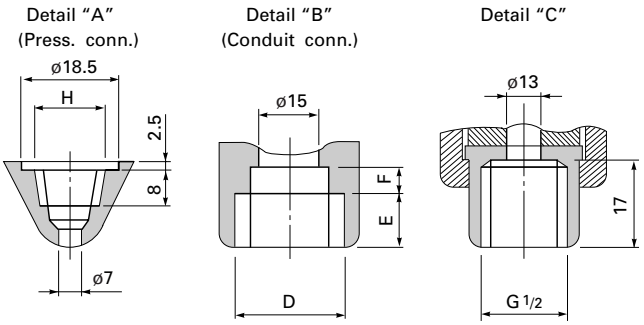


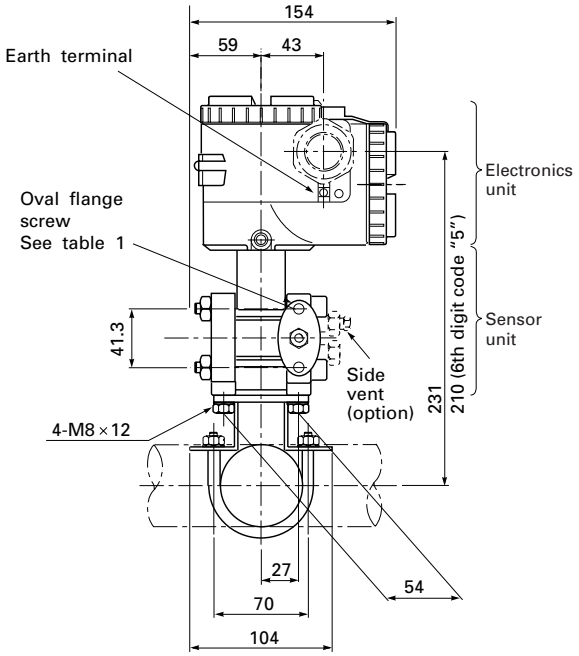
Note 1) Cable gland is supplied in case of 10th digit code "C". ø11 cable is suitable.

Pressure transmitter : FDG

< 7th digit code without : B, L, U >



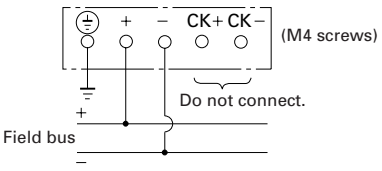




4th digit of the code symbols	Conduit conn.			Press.conn.	Oval flange screw
	D	E	F	H	
A, S	G1/2	17	8	Rc1/4	7/16-20UNF Screw depth15
B, T	1/2-14NPT	16	5	1/4-18NPT	7/16-20UNF Screw depth15
C, V	Pg13.5	8	4.5	1/4-18NPT	M10 Screw depth15
D, W	M20×1.5	16	5	1/4-18NPT	M10 Screw depth15
E, X	Pg13.5	8	4.5	1/4-18NPT	7/16-20UNF Screw depth15

Table 1

CONNECTION DIAGRAM

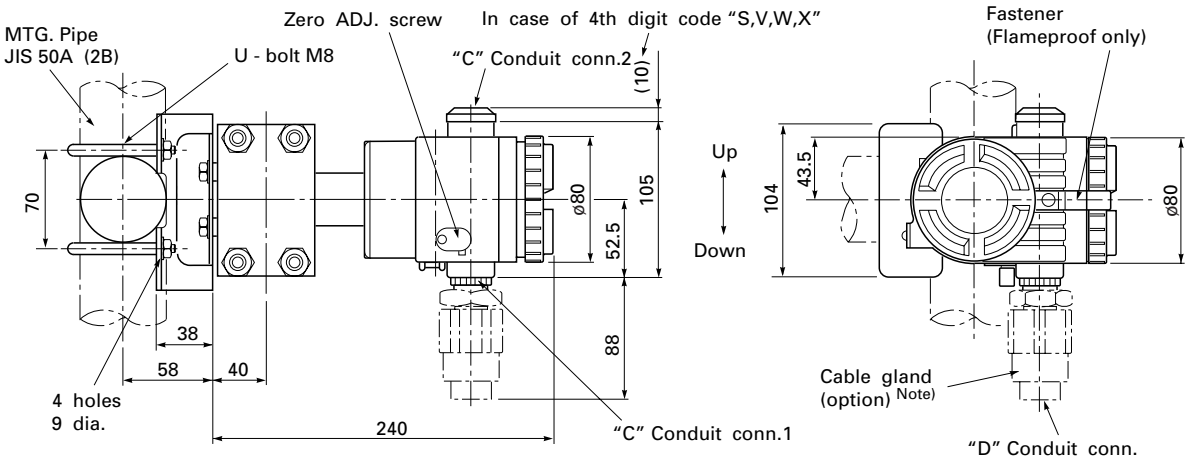


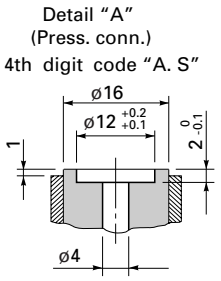
Note1) Cable gland is supplied in case of flamproof packing type. ø11 cable is suitable.

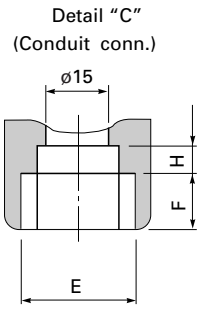
Note2) The pressure connector is located on the down side surface of the detector, when the vent / drainplug is attatched on the upper side of the detector.

Pressure transmitter : FDG

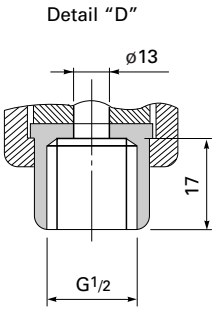
< 7th digit code : B, L, U >

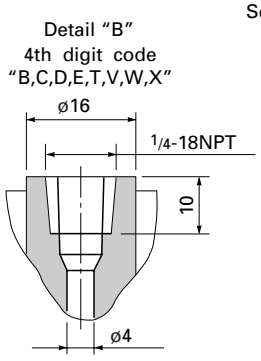


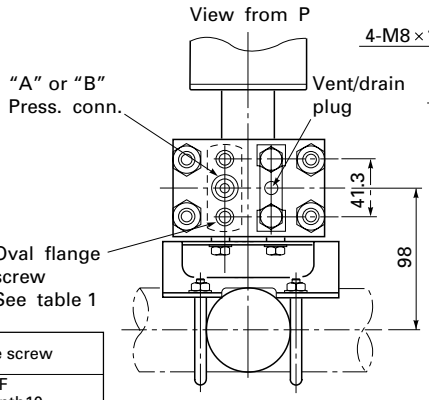


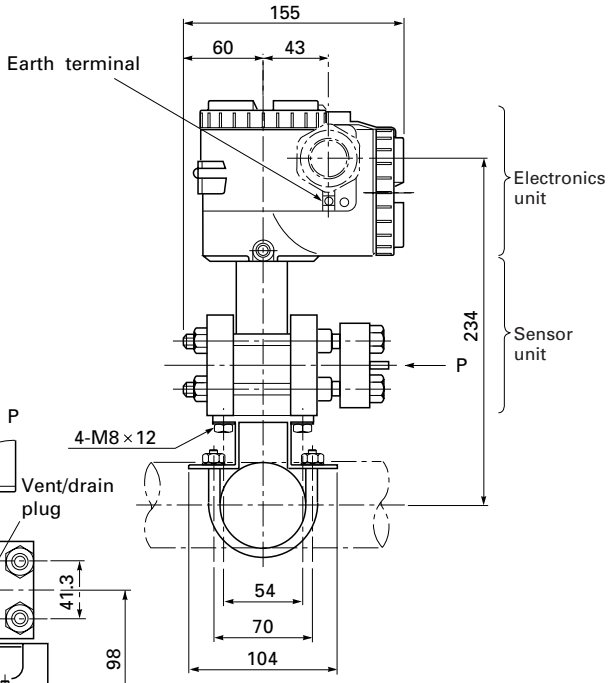


See table 1





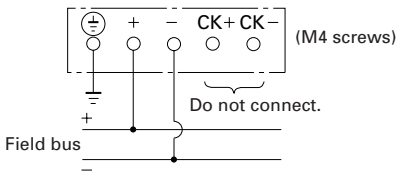




4th digit of the code symbols	Conduit conn. D	E	F	Oval flange screw
A, S	G1/2	17	8	7/16-20UNF Screw depth10
B, T	1/2-14NPT	16	5	7/16-20UNF Screw depth10
C, V	Pg13.5	8	4.5	M10 Screw depth10
D, W	M20×1.5	16	5	M10 Screw depth10
E, X	Pg13.5	8	4.5	7/16-20UNF Screw depth10

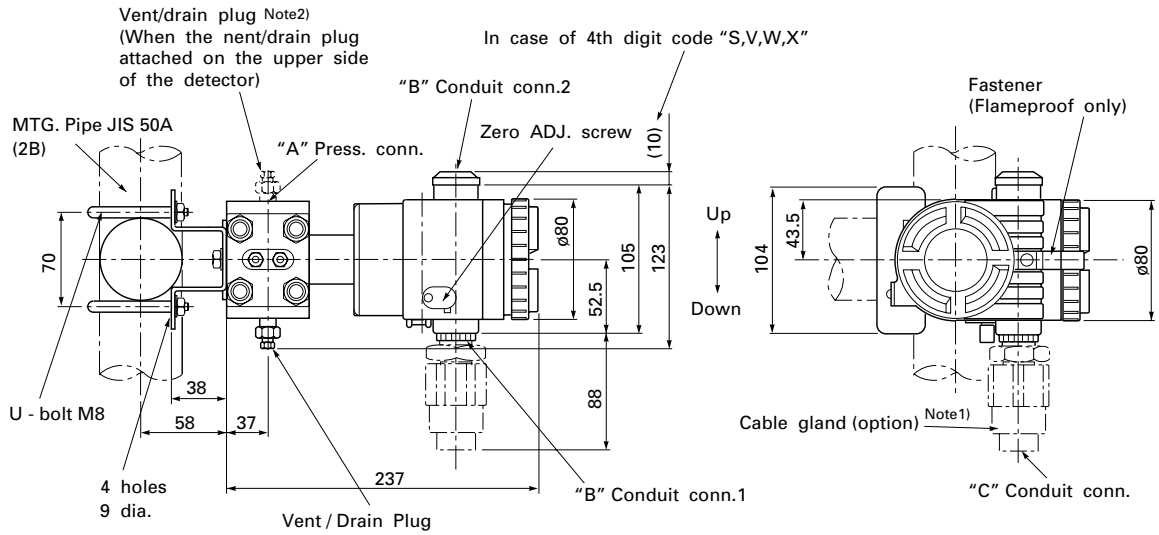
Table 1

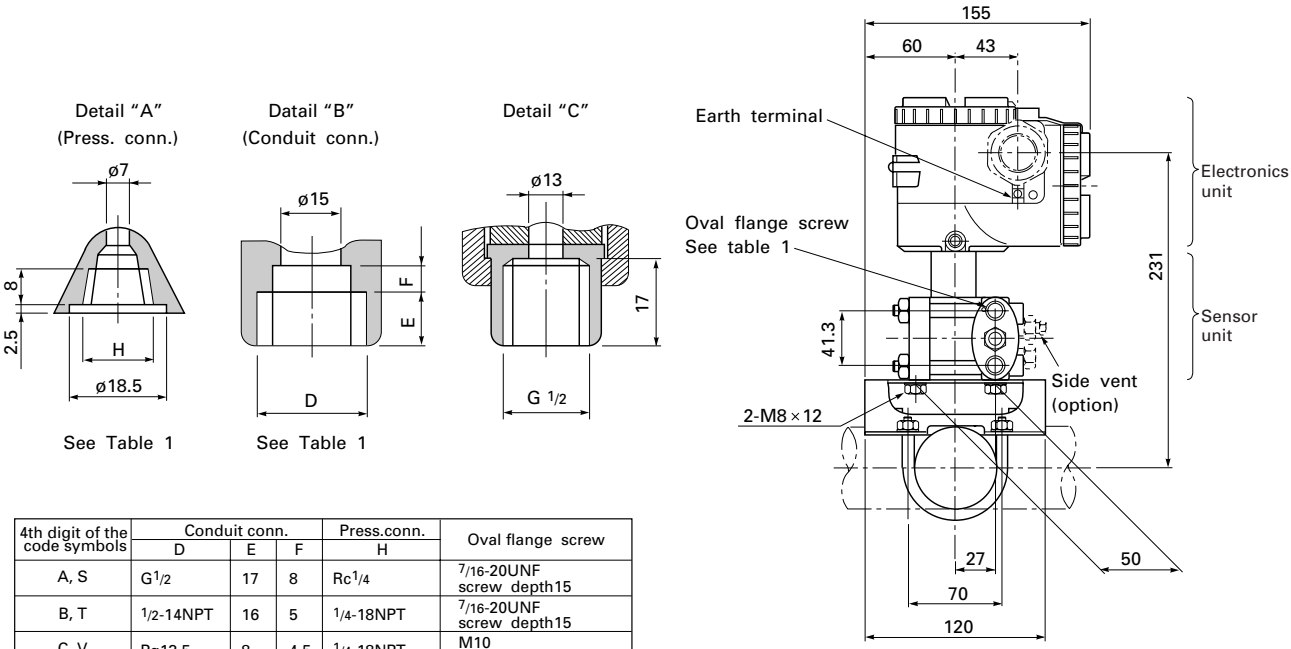
CONNECTION DIAGRAM



Note) Cable gland is supplied in case of 10th digit code "C".
ø11 cable is suitable.

Absolute pressure transmitter : FDA





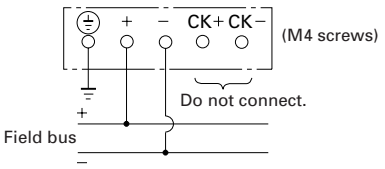
4th digit of the code symbols	Conduit conn.			Press.conn.	Oval flange screw
	D	E	F	H	
A, S	G1/2	17	8	Rc1/4	7/16-20UNF screw depth15
B, T	1/2-14NPT	16	5	1/4-18NPT	7/16-20UNF screw depth15
C, V	Pg13.5	8	4.5	1/4-18NPT	M10 screw depth15
D, W	M20×1.5	16	5	1/4-18NPT	M10 screw depth15
E, X	Pg13.5	8	4.5	1/4-18NPT	7/16-20UNF screw depth15

Table 1

Note1) Cable gland is supplied in case of flamproof packing type. ø11 cable is suitable.

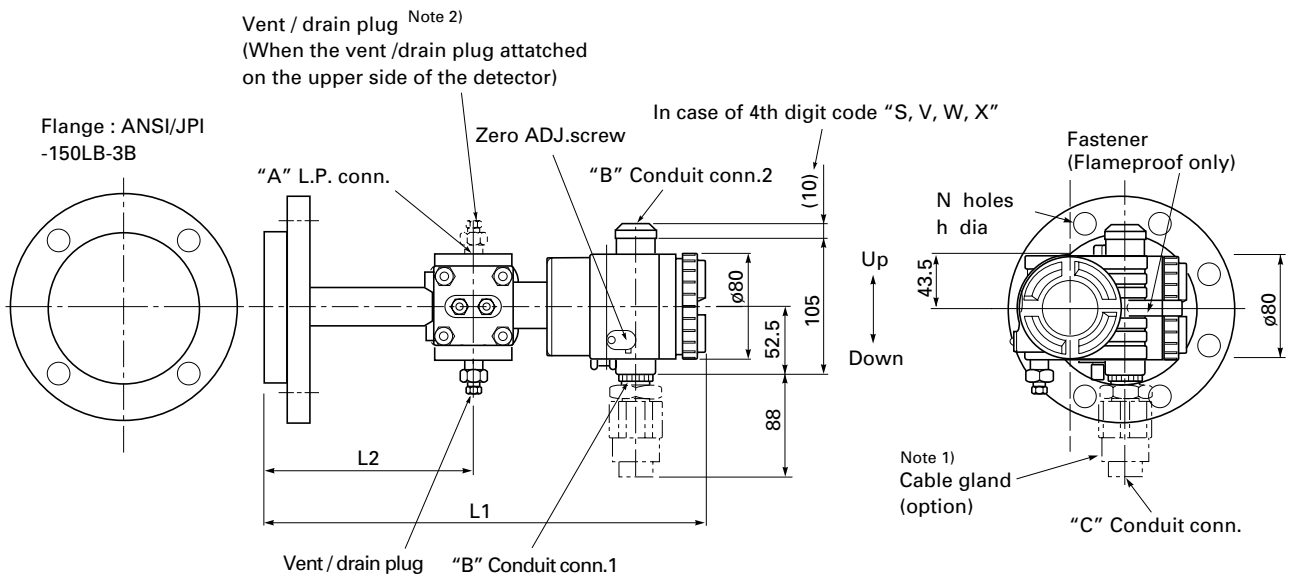
Note2) The pressure connector is located on the down side surface of the detector, when the vent / drainplug is attached on the upper side of the detector.

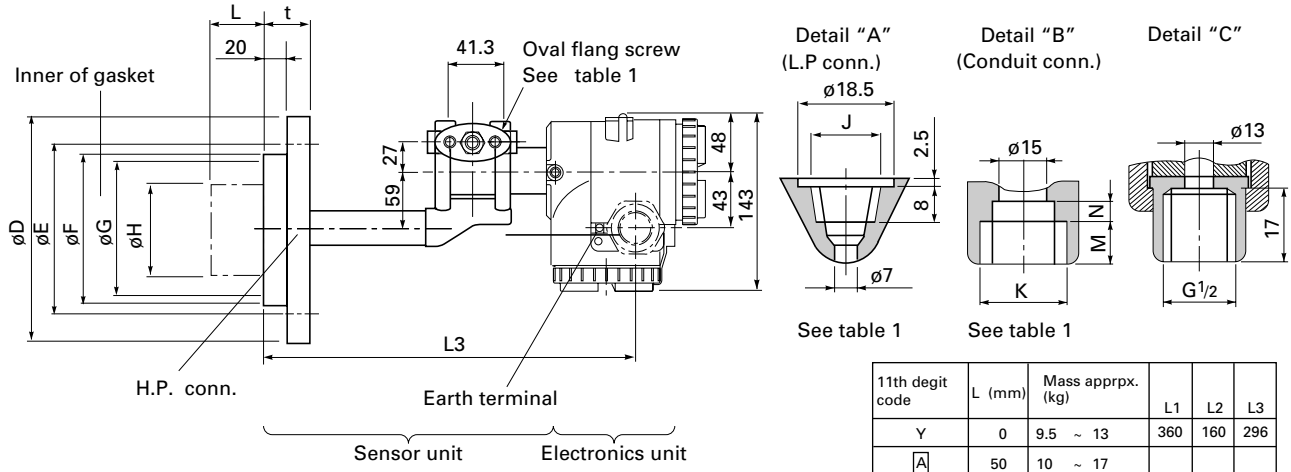
CONNECTION DIAGRAM



Level transmitter : FDE

< 7th digit code without : B, L, U >





11th degit code	L (mm)	Mass apprpx. (kg)	L1	L2	L3
Y	0	9.5 ~ 13	360	160	296
A E	50	10 ~ 17	354	154	290
B F	100	10.5 ~ 17.5			
C G	150	11 ~ 18			
D H	200	11.5 ~ 18.5			

øD	øE	øF	øG	øH	t	N-øh	(Flange)
185	150	126	100	73	38	8-19	JIS-10K-80A
200	160	126	100	73	42	8-23	JIS-20K-80A
210	170	126	100	73	48	8-23	JIS-30K-80A
210	175	151	103	96	38	8-19	JIS-10K-100A
240	195	151	103	96	52	8-25	JIS-30K-100A
191	152.5	126	100	73	44	4-20	ANSI-150LB-3B
210	168	126	100	73	49	8-23	ANSI-300LB-3B
210	168	126	100	73	52	8-23	ANSI-600LB-3B
229	190.5	151	103	96	44	8-20	ANSI-150LB-4B
254	200	151	103	96	52	8-23	ANSI-300LB-4B
200	160	126	100	73	44	8-18	DIN PN40 DN80
220	180	151	103	96	40	8-18	DIN PN16 DN100

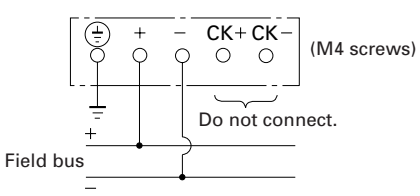
4th digit of the code symbols	Conduit conn. K	M	N	Press.conn. J	Oval flage screw
A, S	G1/2	17	8	Rc1/4	7/16-20UNF Screw depth15
B, T	1/2-14NPT	16	5	1/4-18NPT	7/16-20UNF Screw depth15
C, V	Pg13.5	8	4.5	1/4-18NPT	M10 Screw depth15
D, W	M20×1.5	16	5	1/4-18NPT	M10 Screw depth15
E, X	Pg13.5	8	4.5	1/4-18NPT	7/16-20UNF Screw depth15

Table 1

Note 1) Cable grand is suppled in case of flamproof packing type. ø11 cable is suitable.

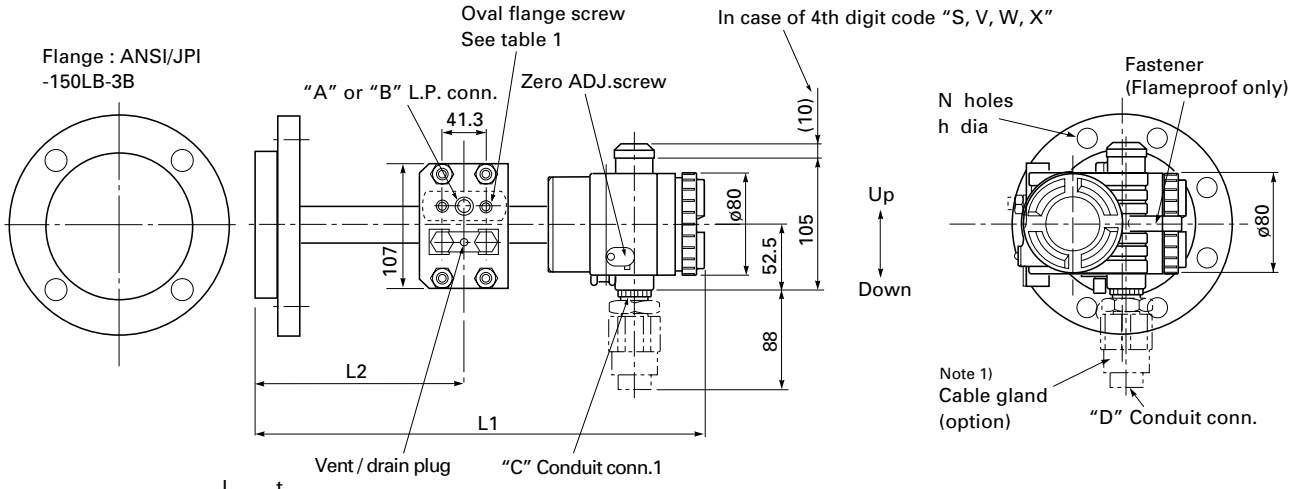
Note 2) The pressure connector is located on the down side surface of the detector, when the vent / detector.

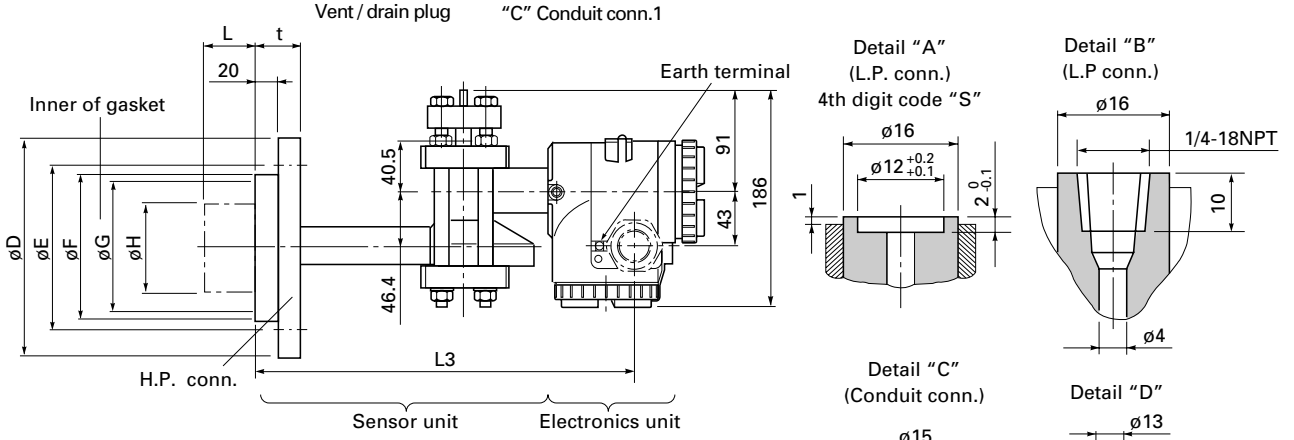
CONNECTION DIAGRAM



Level transmitter : FDE

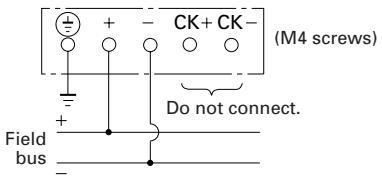
< 7th digit code : B, L, U >





11th degit code	L (mm)	Mass apprpx. (kg)	L1	L2	L3
Y	0	11.5 ~ 15	350	150	286
A E	50	12 ~ 19	344	144	290
B F	100	12.5 ~ 19.5			
C G	150	13 ~ 20			
D H	200	13.5 ~ 20.5			

CONNECTION DIAGRAM



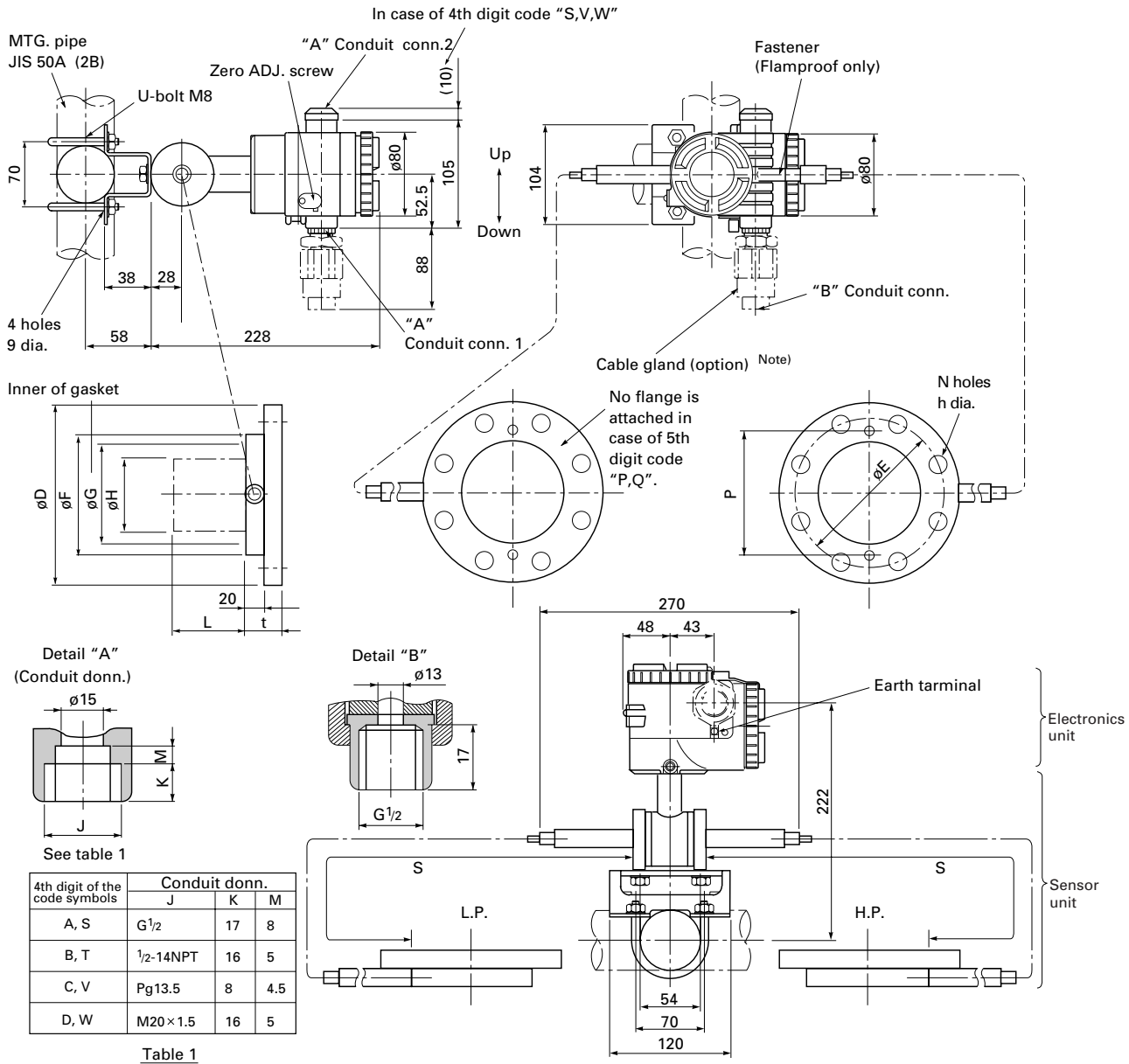
øD	øE	øF	øG	øH	t	N-øh	(Flange)
185	150	126	100	73	38	8-19	JIS-10K-80A
200	160	126	100	73	42	8-23	JIS-20K-80A
210	170	126	100	73	48	8-23	JIS-30K-80A
210	175	151	103	96	38	8-19	JIS-10K-100A
240	195	151	103	96	52	8-25	JIS-30K-100A
191	152.5	126	100	73	44	4-20	ANSI-150LB-3B
210	168	126	100	73	49	8-23	ANSI-300LB-3B
210	168	126	100	73	52	8-23	ANSI-600LB-3B
229	190.5	151	103	96	44	8-20	ANSI-150LB-4B
254	200	151	103	96	52	8-23	ANSI-300LB-4B
200	160	126	100	73	44	8-18	DIN PN40 DN80
220	180	151	103	96	40	8-18	DIN PN16 DN100

Note 1) Cable grand is suppled in case of 10th digit code "C".
ø11 cable is suitable.

4th digit of the code symbols	Conduit conn. K	M	N	Oval flage screw
A, S	G 1/2	17	8	7/16-20UNF Screw depth10
B, T	1/2-14NPT	16	5	7/16-20UNF Screw depth10
C, V	Pg13.5	8	4.5	M10 Screw depth10
D, W	M20×1.5	16	5	M10 Screw depth10
E, X	Pg13.5	8	4.5	7/16-20UNF Screw depth10

Table 1

Remote seal type differential pressure transmitter : FDD



4th digit of the code symbols	Conduit donn.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20×1.5	16	5

Table 1

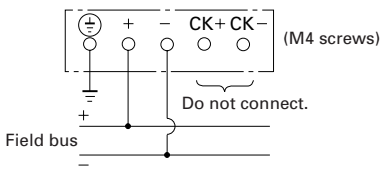
7th digit code	L	Mass. appox. (kg)
V,H,M,T,P,R	0	14~19.5
A,F	50	15~30.5
B,J	100	15.5~31
C,K	150	16~31.5
D,L	200	16.5~32

11th digit code	S (m)	11th digit code	S (m)
D,Q	1.5	M,V	7
E,R	3	N,W	8
L,S	5	P,X	10
F,T	6		

øD	øE	øF	øG	øH	t	P	N-øh	(Flange)
185	150	126	100	73	38	116	8-19	JIS-10K-80A
200	160	126	100	73	42	116	8-23	JIS-20K-80A
210	170	126	100	73	48	116	8-23	JIS-30K-80A
210	175	151	103	96	38	141	8-19	JIS-10K-100A
240	195	151	103	96	52	141	8-25	JIS-30K-100A
191	152.5	126	100	73	44	116	4-20	ANSI-150LB-3B
210	168	126	100	73	49	116	8-23	ANSI-300LB-3B
210	168	126	100	73	52	116	8-23	ANSI-600LB-3B
229	190.5	151	103	96	44	141	8-20	ANSI-150LB-4B
254	200	151	103	96	52	141	8-23	ANSI-300LB-4B
200	160	126	100	73	44	116	8-18	DIN PN40 DN80
220	180	151	103	96	40	141	8-18	DIN PN16 DN100

NOTE) Cable gland is supplied in case of flamproof packing type.
ø11 cable is suitable.

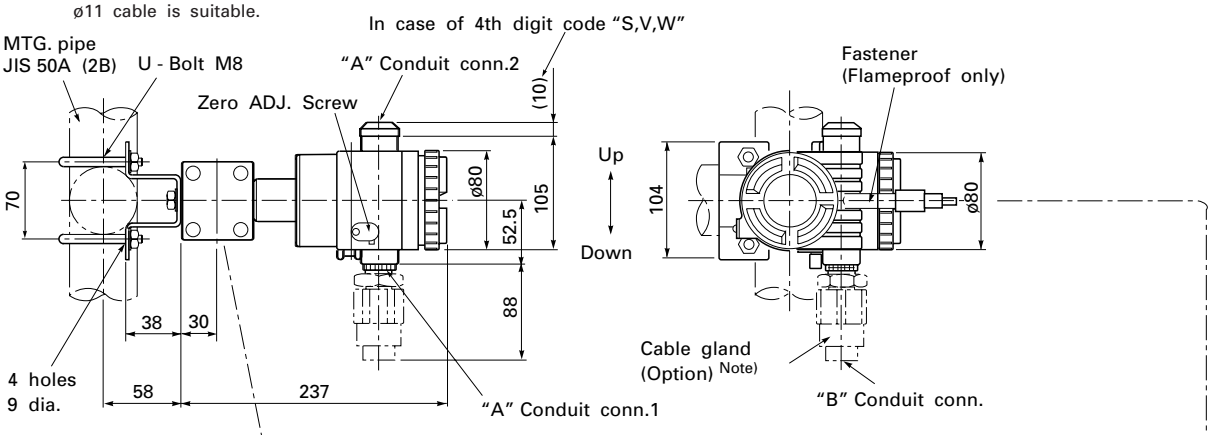
CONNECTION DIAGRAM

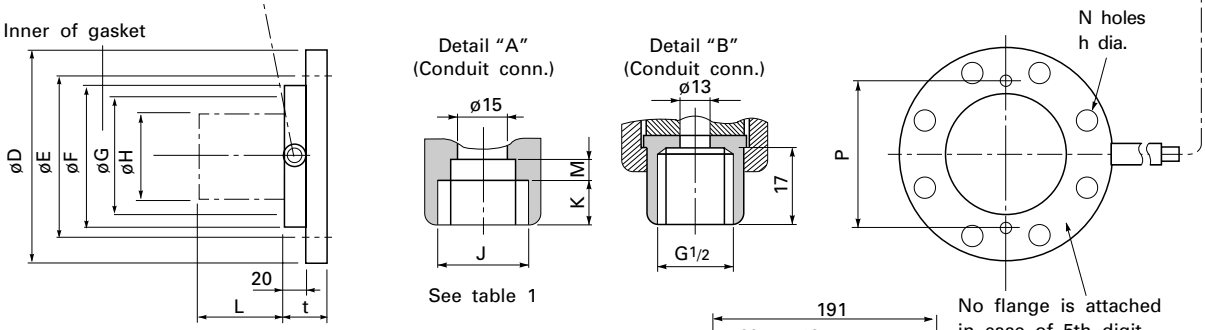


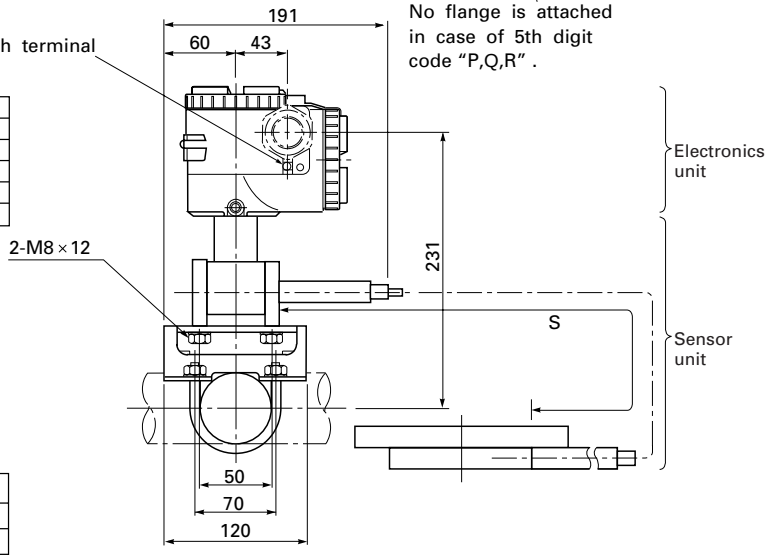
Remote seal type pressure transmitter : FDB

F D B □□ [1 2 3] □ 4

Note) Cable gland is supplied in case of flamproof packing type.
ø11 cable is suitable.







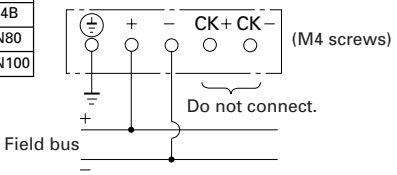
7th digit code	L	Mass approx.(kg)
V H M T P R	0	9.5
A F	50	10.5
B J	100	11.5
C K	150	12
D L	200	12.5

4th digit of the code symbols	Conduit conn.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20×1.5	16	5

Table 1

øD	øE	øF	øG	øH	t	P	N-øh	(Flange)
185	150	126	100	73	38	116	8-19	JIS-10K-80A
200	160	126	100	73	42	116	8-23	JIS-20K-80A
210	170	126	100	73	48	116	8-23	JIS-30K-80A
210	175	151	103	96	38	141	8-19	JIS-10K-100A
191	152.5	126	100	73	44	116	4-20	ANSI-150LB-3B
210	168	126	100	73	49	116	8-23	ANSI-300LB-3B
210	168	126	100	73	52	116	8-23	ANSI-600LB-3B
229	190.5	151	103	96	44	141	8-20	ANSI-150LB-4B
200	160	126	100	73	44	116	8-18	DIN PN40 DN80
220	180	151	103	96	40	141	8-18	DIN PN16 DN100

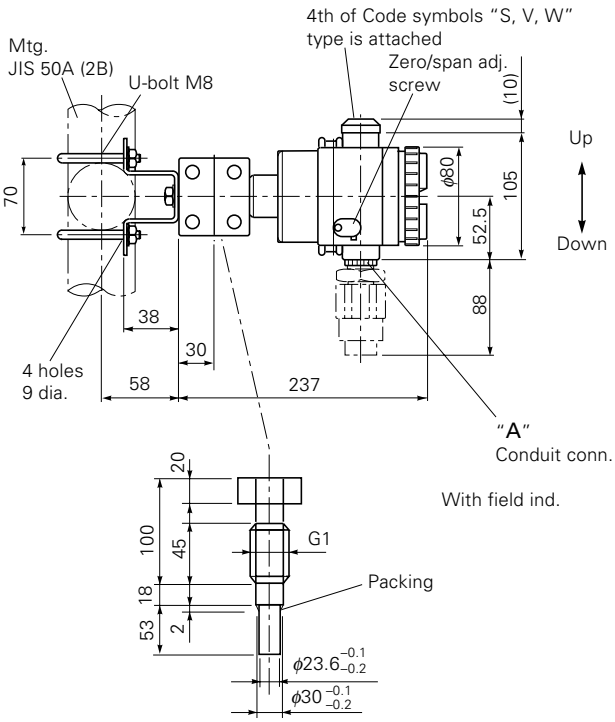
CONNECTION
DIAGRAM

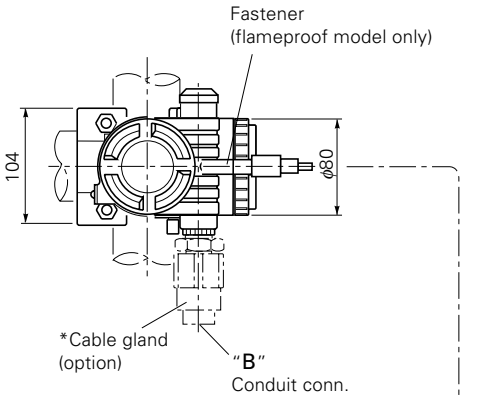


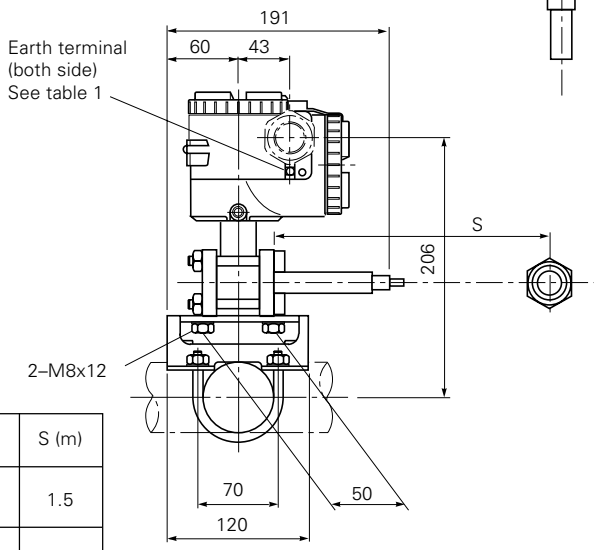
11th digit code	S (m)
D Q	1.5
E R	3
L S	5
F T	6
M V	7
N W	8
P X	10

Remote seal type pressure transmitter : FDB

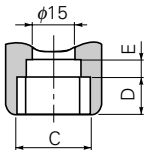
F D B □ K 4/5 V 4





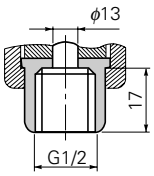


Details of "A"



See table 1

Details of "B"



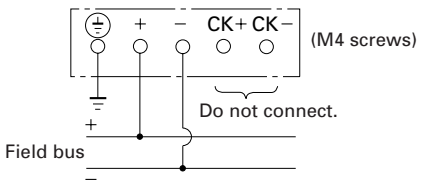
4th of Code symbols	Conduit conn.			Earth terminal
	C	D	E	
S	G1/2	17	8	M4
T	1/2-14NPT	16	5	No. 8-32UNC
V	Pg13.5	8	4.5	M4
W	M20x1.5	16	5	M4

Table 1

Note *: Cable gland is supplied in case of flameproof packing type. ϕ11 cable is suitable.

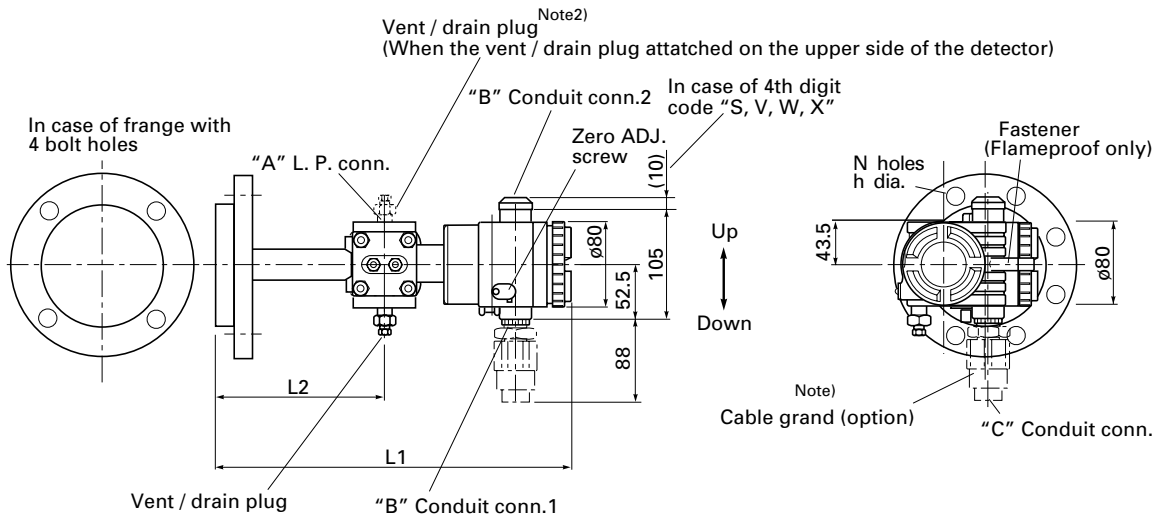
11th of Code symbols	S (m)
D Q	1.5
E R	3
L S	5
F T	6
M V	7
N W	8
P X	10

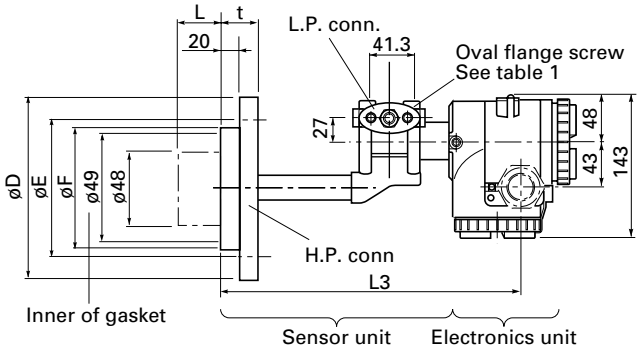
CONNECTION DIAGRAM

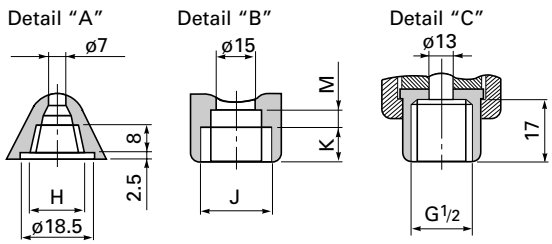


Small frange type level transmitter : FDY

< 7th digit code without : B, L, U >







See table 1

11th digit of Code symbols	L [mm]	Mass approx, [kg]	L1	L2	L3
Y	0	9.5 to 12	360	160	296
A	50	10 to 17	354	154	290
B	100	10.5 to 17.5			
C	150	11 to 18			
D	200	11.5 to 18.5			

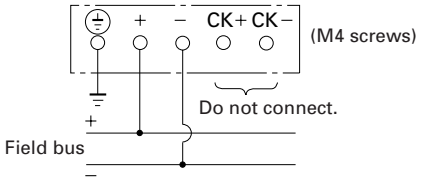
5th digit of Code symbols	øD	øE	t	N-øh	Flange
0, G	140	105	36	4-19	JIS-10K-40A
1, H	155	120	36	4-19	JIS-10K-50A
2, J	140	105	39	4-19	JIS-20K-40A
3, K	155	120	38	8-19	JIS-20K-50A
4, L	160	120	42	4-23	JIS-30K-40A
5, M	165	130	42	8-19	JIS-30K-50A
A, Q	127	98.4	37.5	4-16	ANSI/JPI-150LB-1 1/2B
B, R	152	120.6	39.5	4-20	ANSI/JPI-150-2B
C, S	156	114.3	41	4-23	ANSI/JPI-300LB-1 1/2B
D, T	165	127	42.5	8-20	ANSI/JPI-300LB-2B

Note) Cable gland is supplied in case of flamproof packing type.
ø11 cable is suitable.

4TH DIGIT OF THE CODE SYMBOLS	CONDUIT CONN.			PRESS.CONN.	Oval flange screw
	J	K	M	H	
A, S	G1/2	17	8	Rc1/4	7/16-20UNF Screw depth15
B, T	1/2-14NPT	18	5	1/4-18NPT	7/16-20UNF Screw depth15
C, V	Pg13.5	8	4.5	1/4-18NPT	M10 Screw depth15
D, W	M20 × 1.5	16	5	1/4-18NPT	M10 Screw depth15
E, X	Pg13.5	8	4.5	1/4-18NPT	7/16-20UNF Screw depth15

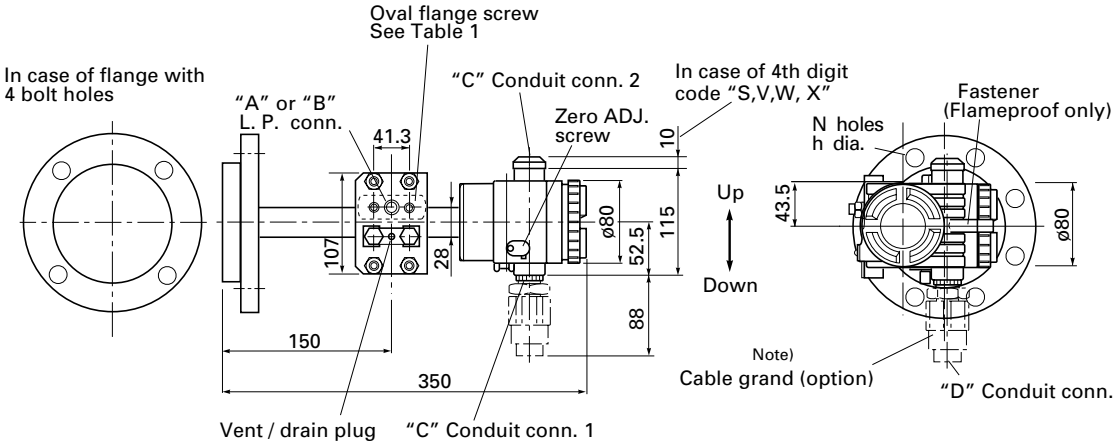
Table 1

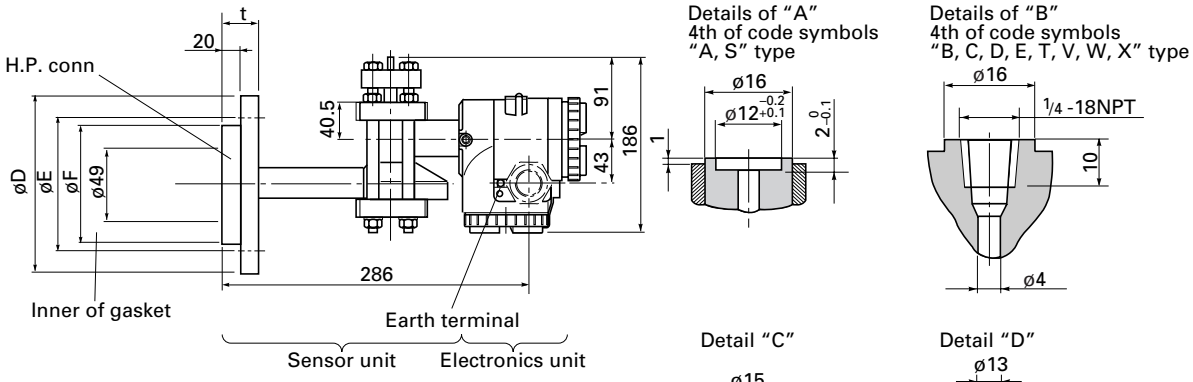
CONNECTION DIAGRAM

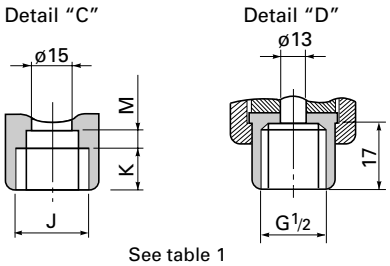


Small frange type level transmitter : FDY

< 7th digit code : B, L, U >







See table 1

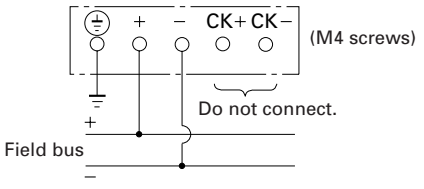
5th digit of Code symbols	øD	øE	t	N-øh	Flange
0, G	140	105	36	4-19	JIS-10K-40A
1, H	155	120	36	4-19	JIS-10K-50A
2, J	140	105	39	4-19	JIS-20K-40A
3, K	155	120	38	8-19	JIS-20K-50A
4, L	160	120	42	4-23	JIS-30K-40A
5, M	165	130	42	8-19	JIS-30K-50A
A, Q	127	98.4	37.5	4-16	ANSI/JPI-150LB-1 1/2B
B, R	152	120.6	39.5	4-20	ANSI/JPI-150-2B
C, S	158	114.3	41	4-23	ANSI/JPI-300LB-1 1/2B
D, T	165	127	42.5	8-20	ANSI/JPI-300LB-2B

Note) Cable gland is supplied in case of 10th digit code "C".
ø11 cable is suitable.

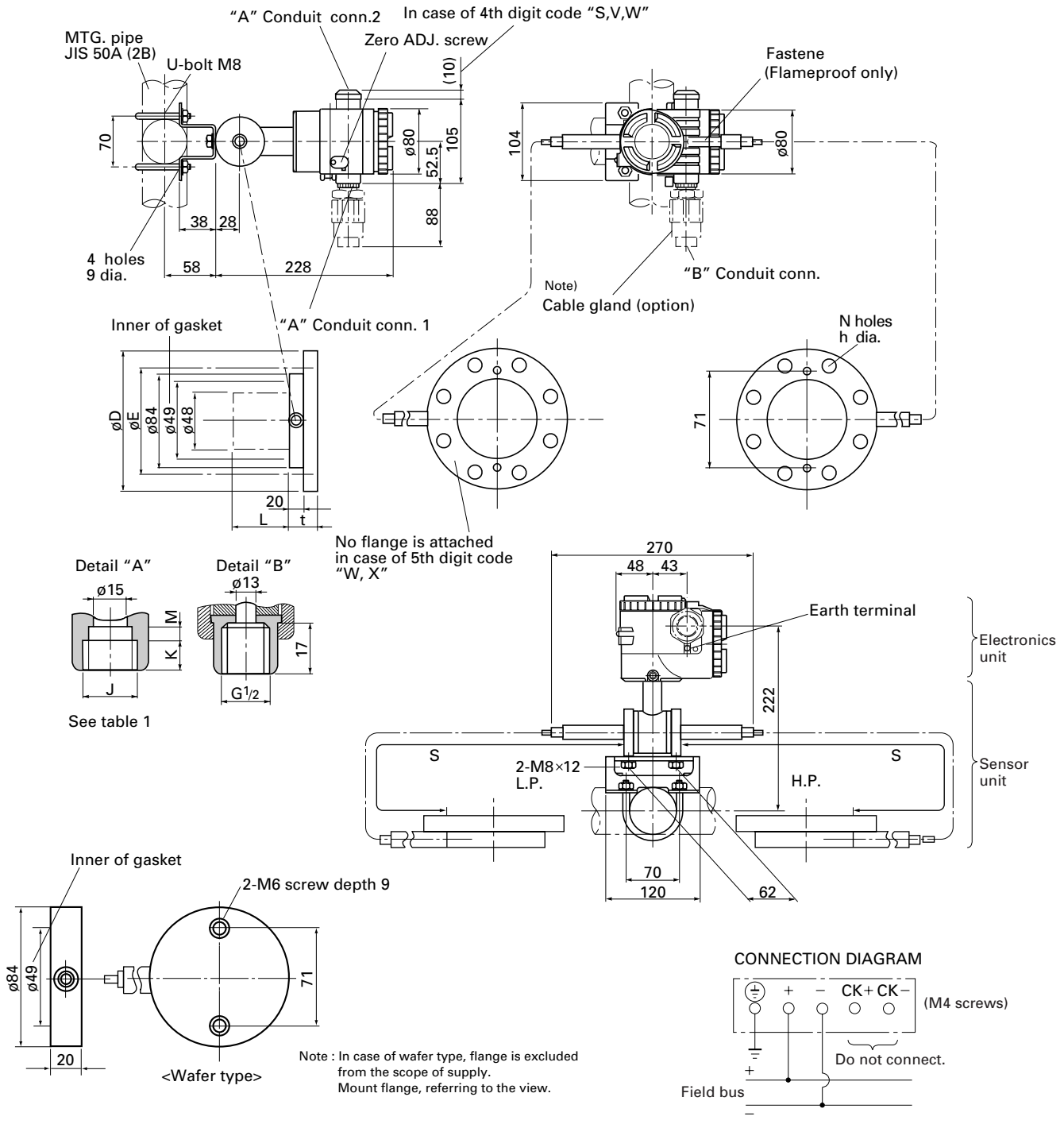
4th digit of the code symbols	Conduit conn.			Oval flange screw
	J	K	M	
A, S	G1/2	17	8	7/16-20UNF Screw depth 10
B, T	1/2-14NPT	16	5	7/16-20UNF Screw depth 10
C, V	Pg13.5	8	4.5	M10 Screw depth 10
D, W	M20 × 15	16	5	M10 Screw depth 10
E, X	Pg13.5	8	4.5	7/16-20UNF Screw depth 10

Table 1

CONNECTION DIAGRAM



Small frange remote seal type differential pressure transmitter : FDX



5th digit of code symbols	øD	øE	t	N-øh	Flange
0,G	140	105	36	4-19	JIS-10K-40A
1,H	155	120	36	4-19	JIS-10K-50A
2,J	140	105	38	4-19	JIS-20K-40A
3,K	155	120	38	8-19	JIS-20K-50A
4,L	160	120	42	4-23	JIS-30K-40A
5,M	165	130	42	8-19	JIS-30K-50A
6,N	175	130	52	4-25	JIS-63K-40A
7,P	185	145	54	8-23	JIS-63K-50A
A,Q	127	98.4	37.5	4-16	ANSI/JPI-150LB-1 1/2B
B,R	152	120.6	39.5	4-20	ANSI/JPI-150LB-2B
C,S	156	114.3	41	4-23	ANSI/JPI-300LB-1 1/2B
D,T	165	127	42.5	8-20	ANSI/JPI-300LB-2B
E,U	156	114.3	42.5	4-23	ANSI/JPI-600LB-1 1/2B
F,V	165	127	45.5	8-20	ANSI/JPI-600LB-2B

NOTE) Cable gland is supplied in case of flameproof packing type. ø11 cable is suitable.

4th digit of Code symbols	Conduit conn.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20 × 1.5	16	5

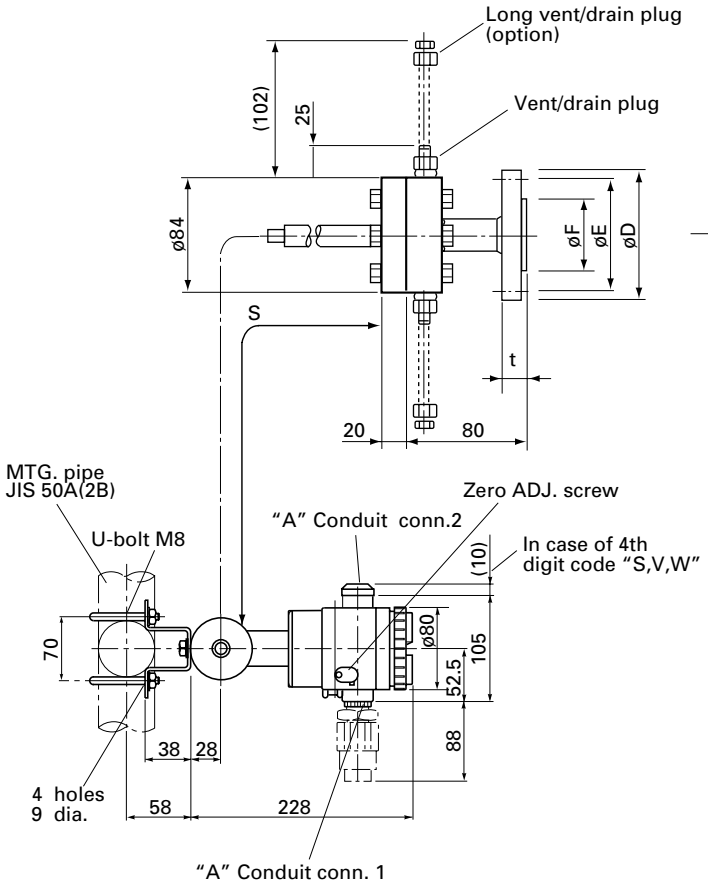
Table 1

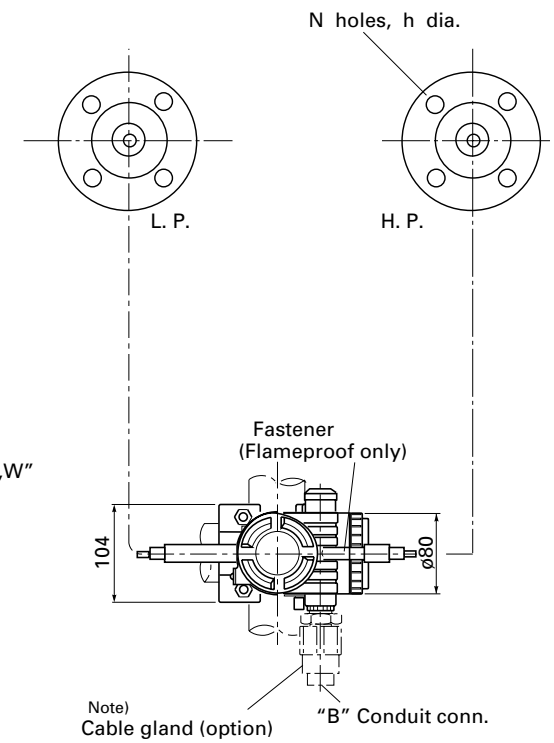
7th digit of Code symbols	L	Mass approx. [kg]
V, H, M, T	0	14 to 19.5
A	50	15 to 30.5
B	100	15.5 to 31
C	150	16 to 31.5
D	200	16.5 to 32

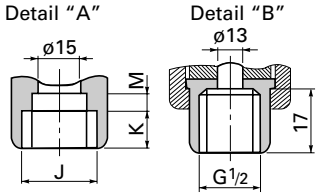
11th digit of Code symbols	Capillary length : S [mm]
D,Q	1500
E,R	3000
L,S	5000

Small frange remote seal type differential pressure transmitter : FDX

<With direct mount adaptor>







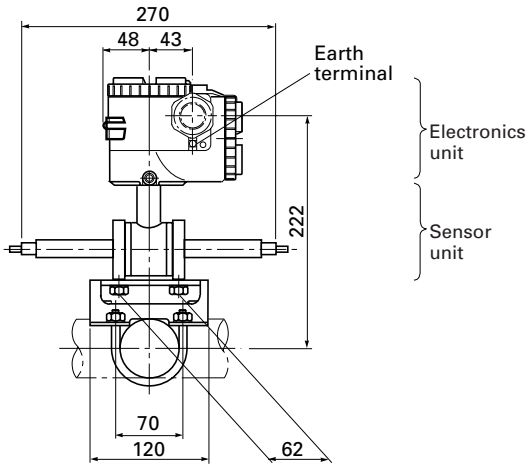


Table 1

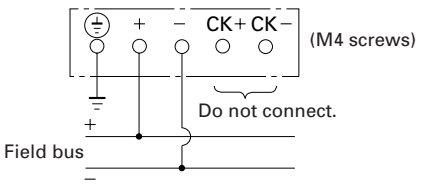
4th digit of code symbols	Conduit conn.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20 ×1.5	16	5

11th digit of Code symbols	Capillary length : S [mm]
D,Q	1500
E,R	3000
L,S	5000

16th digit of code symbols	17th digit of code symbols	øD	øE	øF	t	N-øh	Flange
1	1	95	70	51	12	4-15	JIS-10K-15A
1	2	100	75	56	14	4-15	JIS-10K-20A
2	1	95	70	51	14	4-15	JIS-20K-15A
2	2	100	75	56	16	4-15	JIS-20K-20A
3	1	115	80	55	18	4-19	JIS-30K-15A
3	2	120	85	60	18	4-19	JIS-30K-20A
1	H	89	60.3	34.9	11.5	4-16	ANSI/JPI-150LB 1/2B
1	T	98	69.9	42.9	13	4-16	ANSI/JPI-150LB 3/4B
2	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-300LB 1/2B
2	T	117	82.5	42.9	16	4-20	ANSI/JPI-300LB 3/4B

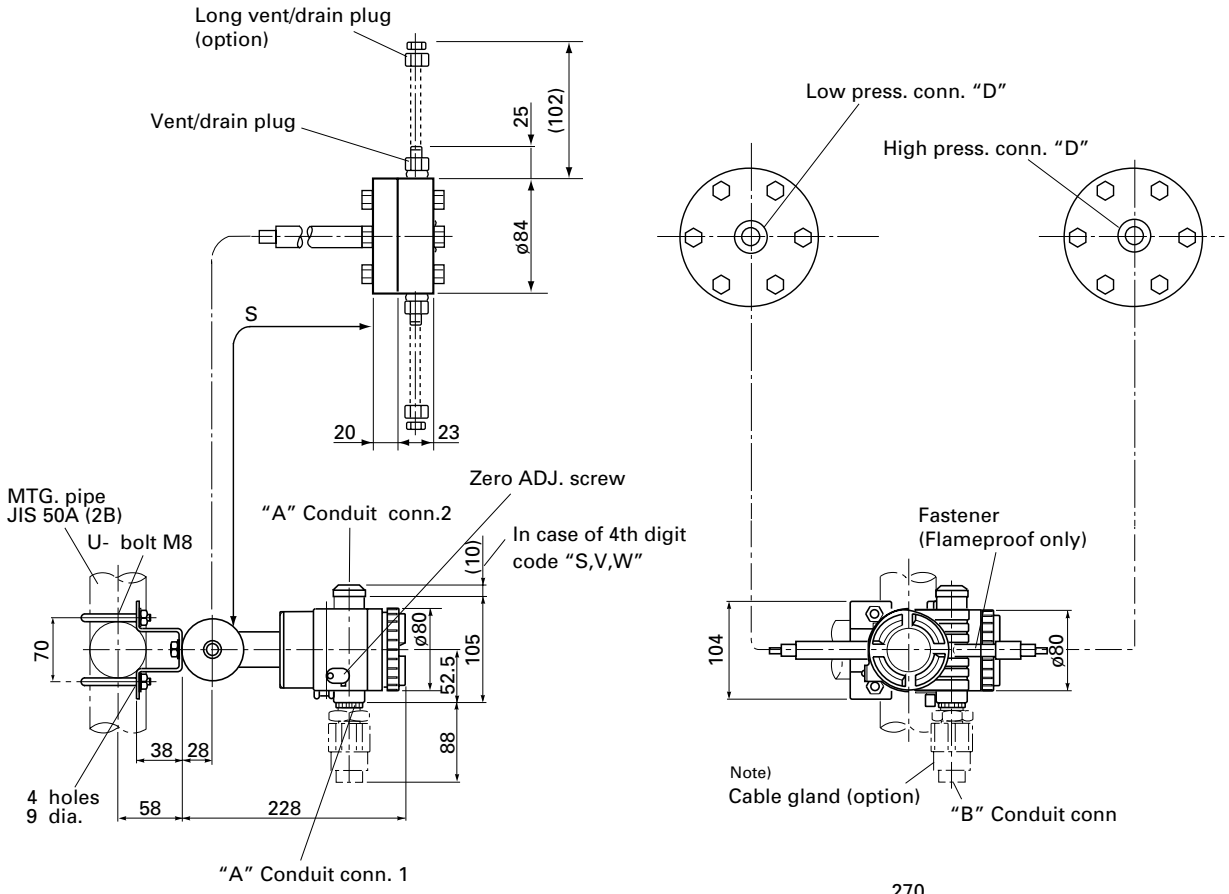
Note) Cable gland is supplied in case of flameproof packing type. ø11 cable is suitable.

CONNECTION DIAGRAM



Small frange remote seal type differential pressure transmitter : FDX

<With direct mount adaptor (screw connection type)>



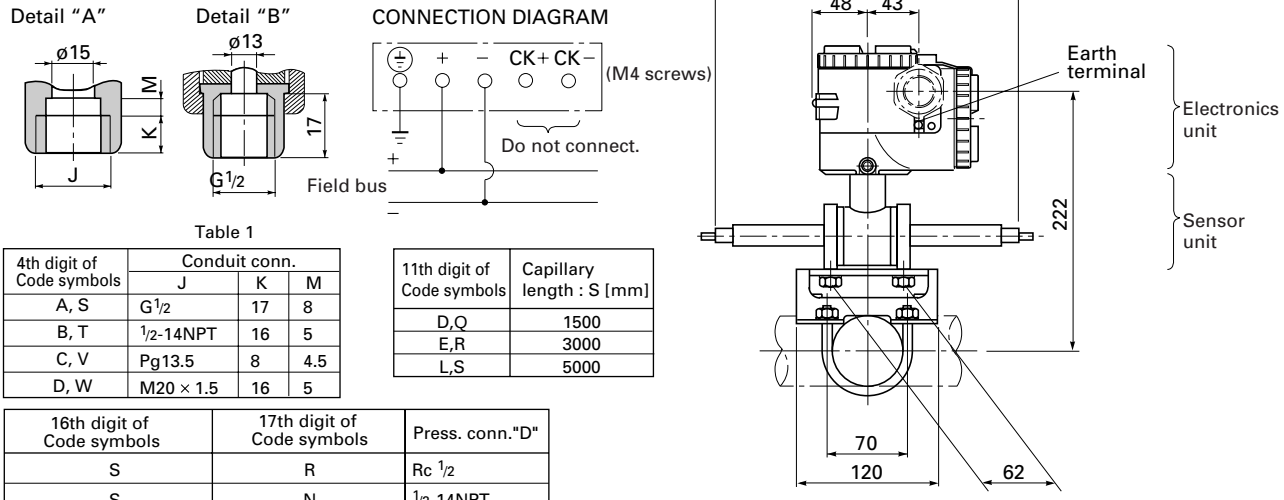


Table 1

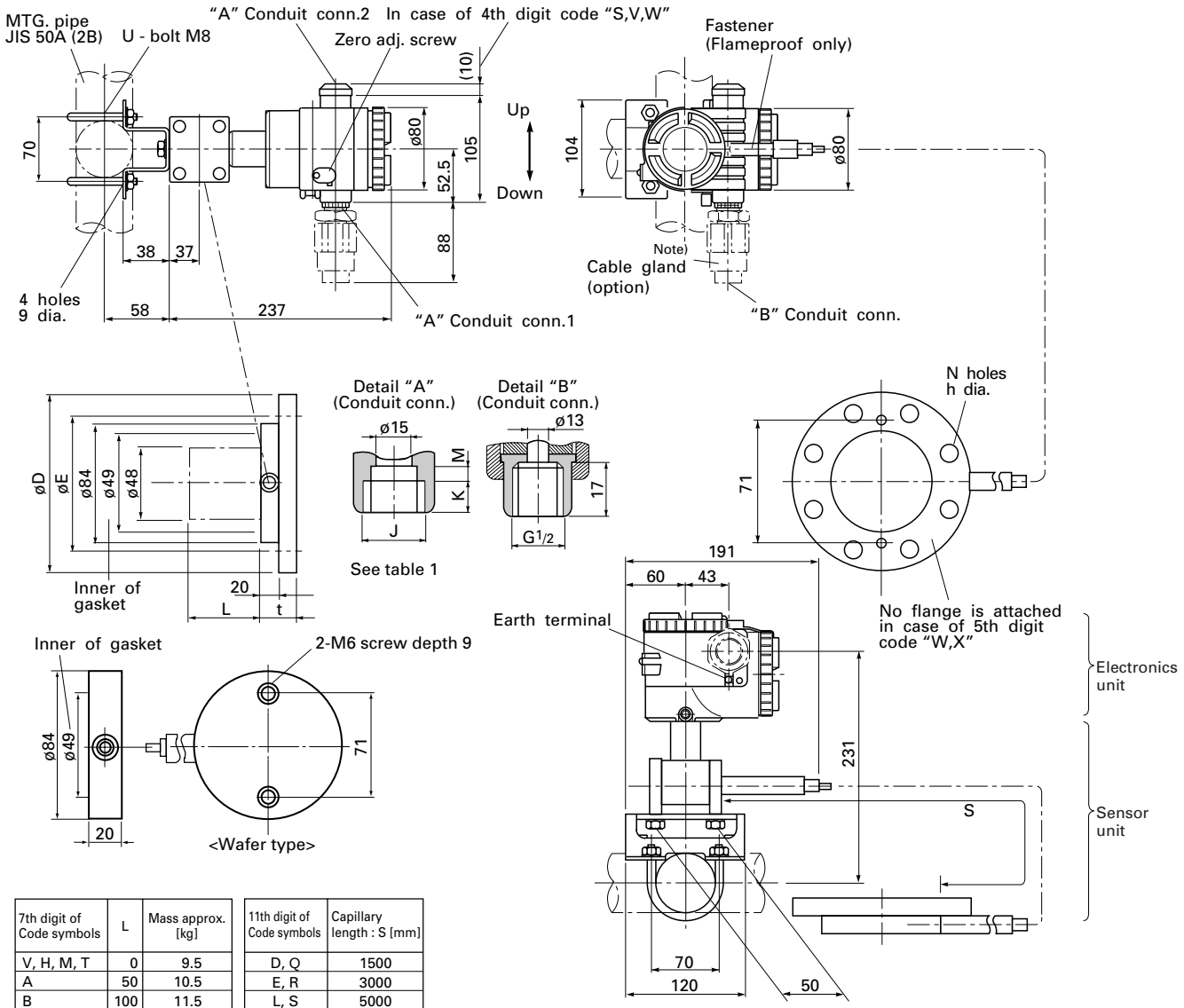
4th digit of Code symbols	Conduit conn.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20 × 1.5	16	5

11th digit of Code symbols	Capillary length : S [mm]
D,Q	1500
E,R	3000
L,S	5000

16th digit of Code symbols	17th digit of Code symbols	Press. conn."D"
S	R	Rc 1/2
S	N	1/2-14NPT
S	2	Rc3/4
S	T	3/4-14NPT

NOTE) Cable gland is supplied in case of
10th digit code "C".
ø11 cable is suitable.

Small frange remote seal type pressure transmitter : FDW



7th digit of Code symbols	L	Mass approx. [kg]
V, H, M, T	0	9.5
A	50	10.5
B	100	11.5
C	150	12
D	200	12.5

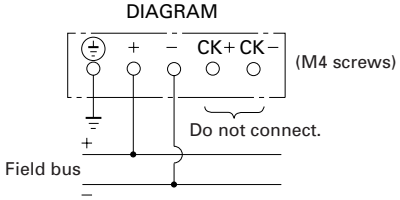
11th digit of Code symbols	Capillary length : S [mm]
D, Q	1500
E, R	3000
L, S	5000

5th digit of code symbols	øD	øE	øt	N-øh	(Flange)
0,G	140	105	36	4-19	JIS-10K-40A
1,H	155	120	36	4-19	JIS-10K-50A
2,J	140	105	38	4-19	JIS-20K-40A
3,K	155	120	38	8-19	JIS-20K-50A
4,L	160	120	42	4-23	JIS-30K-40A
5,M	165	130	42	8-19	JIS-30K-50A
6,N	175	130	52	4-25	JIS-63K-40A
7,P	185	145	54	8-23	JIS-63K-50A
A,Q	127	98.4	37.5	4-16	ANSI/JPI-150LB-1 1/2B
B,R	152	120.6	39.5	4-20	ANSI/JPI-150LB-2B
C,S	156	114.3	41	4-23	ANSI/JPI-300LB-1 1/2B
D,T	165	127	42.5	8-20	ANSI/JPI-300LB-2B
E,U	156	114.3	42.5	4-23	ANSI/JPI-600LB-1 1/2B
F,V	165	127	45.5	8-20	ANSI/JPI-600LB-2B

4TH DIGIT OF THE CODE SYMBOLS	Conduit conn.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20×1.5	16	5

Table 1

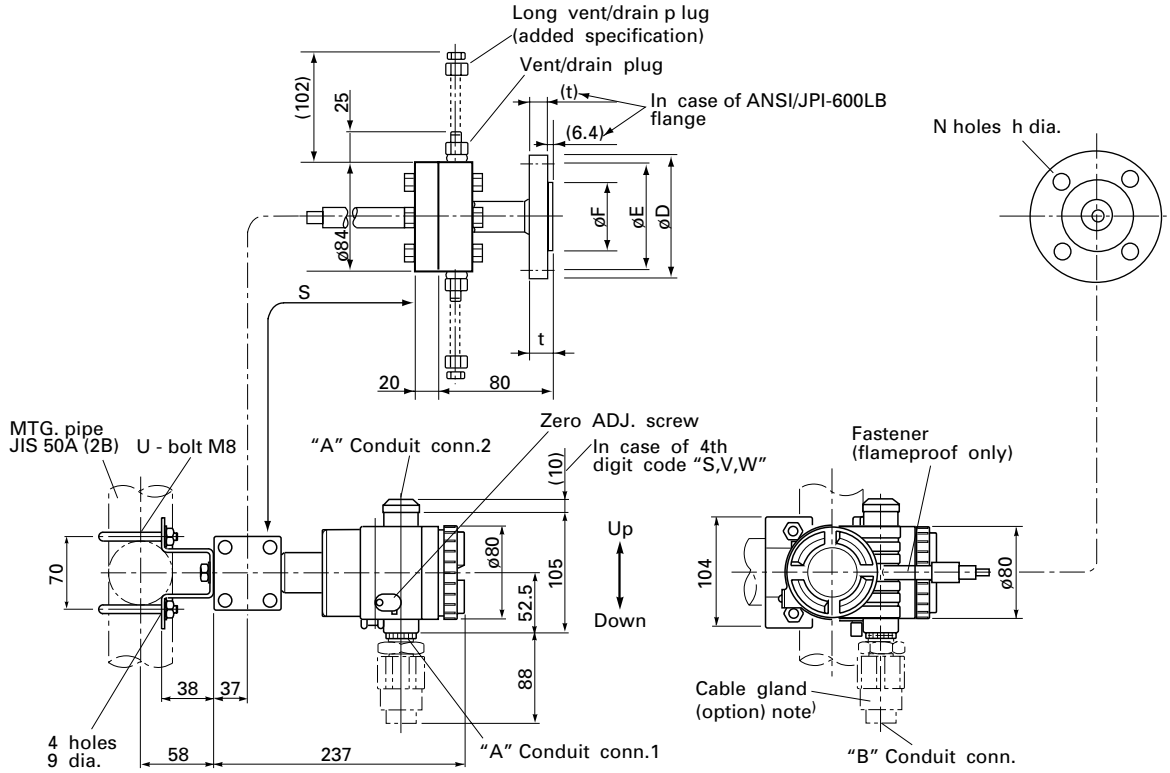
CONNECTION
DIAGRAM

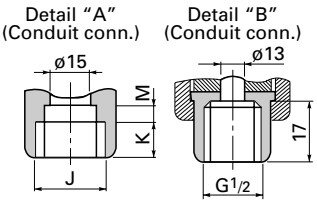


Note) Cable gland is supplied in case of flamproof packing type.
ø11 cable is suitable.

Small frange remote seal type pressure transmitter : FDW

<With direct mount adaptor>





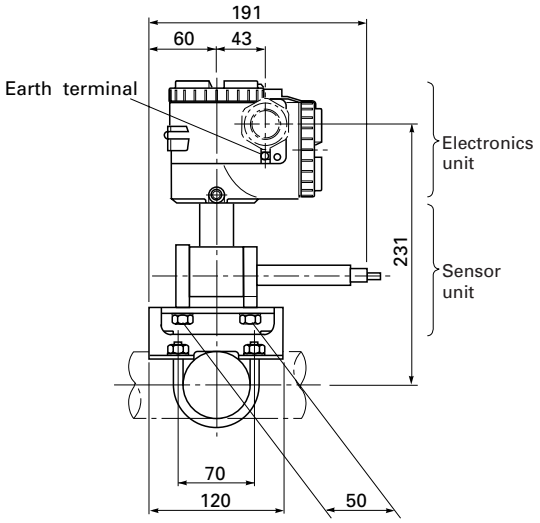


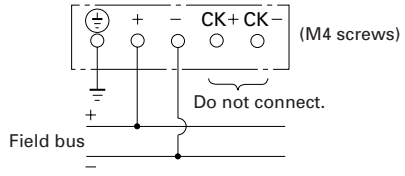
Table 1

4TH DIGIT OF THE CODE SYMBOLS	CONDUIT CONN.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20×1.5	16	5

11th digit of Code symbols	Capillary length : S [mm]
D, Q	1500
E, R	3000
L, S	5000

16th of code symbols	17th of code symbols	øD	øE	øF	t	N-øh	Flange
1	1	95	70	51	12	4-15	JIS-10K-15A
1	2	100	75	56	14	4-15	JIS-10K-20A
2	1	95	70	51	14	4-15	JIS-20K-15A
2	2	100	75	56	16	4-15	JIS-20K-20A
3	1	115	80	55	18	4-19	JIS-30K-15A
3	2	120	85	60	18	4-19	JIS-30K-20A
6	1	120	85	55	23	4-19	JIS-63K-15A
6	2	135	95	60	25	4-23	JIS-63K-20A
1	H	89	60.3	34.9	11.5	4-16	ANSI/JPI-150LB 1/2B
1	T	98	69.9	42.9	13	4-16	ANSI/JPI-150LB 3/4B
2	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-300LB 1/2B
2	T	117	82.5	42.9	16	4-20	ANSI/JPI-300LB 3/4B
4	H	95	66.7	34.9	14.5	4-16	ANSI/JPI-600LB 1/2B
4	T	117	82.5	42.9	16	4-20	ANSI/JPI-600LB 3/4B

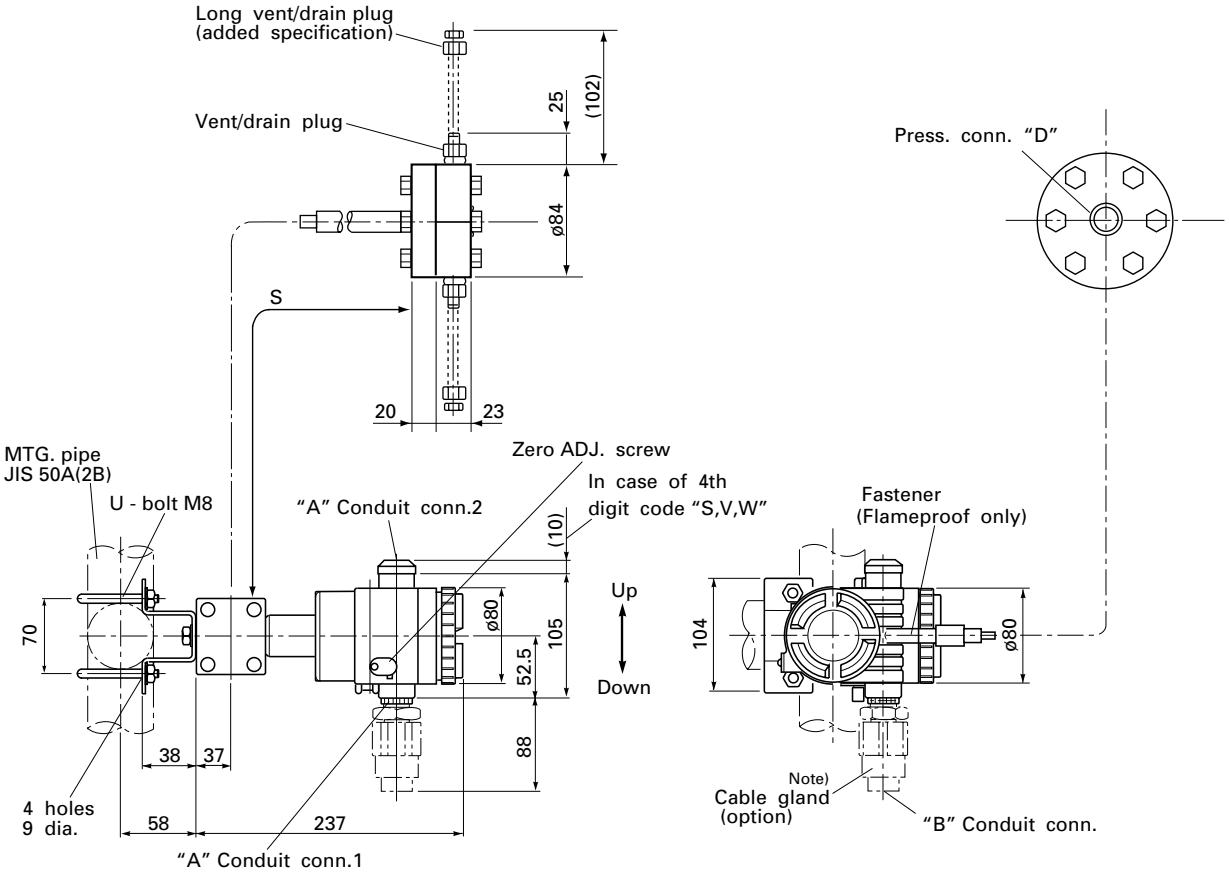
CONNECTION
DIAGRAM

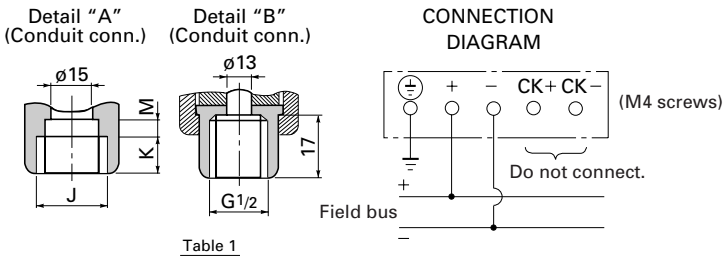


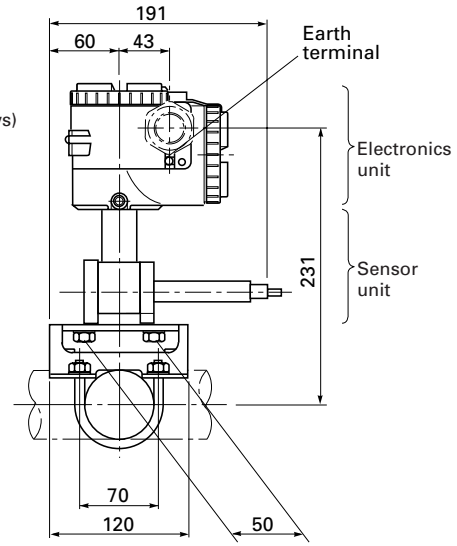
NOTE) Cable gland is supplied in case of flamproof packing type.
ø11 cable is suitable.

Small frange remote seal type pressure transmitter : FDW

<With direct mount adaptor (screw connection type)>







Note) Cable gland is supplied in case of 10th digit code "C".
ø11 cable is suitable.

Table 1

4TH DIGIT OF THE CODE SYMBOLS	CONDUIT CONN.		
	J	K	M
A, S	G1/2	17	8
B, T	1/2-14NPT	16	5
C, V	Pg13.5	8	4.5
D, W	M20 × 1.5	16	5

11th digit of Code symbols	Capillary length : S [mm]
D, Q	1500
E, R	3000
L, S	5000

16th digit of Code symbols	17th digit of Code symbols	Press. conn."D"
S	R	Rc1/2
S	N	1/2 -14NPT
S	2	Rc3/4
S	T	3/4 -14NPT

⚠ Caution on Safety

*Before using this product, be sure to read its instruction manual in advance.

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