

PRESSURE TRANSMITTERS WITH SAFETY FUNCTIONS

DATA SHEET

The FCX-All VG series of pressure transmitters with safety functions accurately measure a gauge differential or absolute pressure and transmit a proportional 4-20 mA output signal.

The transmitters use an unique micro-capacitive silicon sensor in combination with a state-of-the-art digital signal processing to provide exceptional performances in terms of accuracy and stability.

FCX-All VG series with safety functions comply with Safety Integrity Levels 2 or 3 according to IEC 61508 and 61511 standards.

FEATURES

1. Safety function

Specific hardware and software features have been integrated to provide Safety Integrity Levels 2 (HFT* = 0) and 3 (HFT = 1) according to IEC 61508 Standard.

* Hardware Fault Tolerance

2. High accuracy and stability with minimum environmental influences

The Fuji Electric's micro-capacitance silicon sensor ensures a high accuracy for all elevated or suppressed calibration ranges without additional adjustment.

The "Advanced Floating Cell" technology provides a high immunity against temperature variations and overpressure commonly found in the process industry and substantially reduces the overall measurement error.

3. Minimum inventory and design

Electronics unit, local indicators and electronics housing are interchangeable among all FCX-All VG transmitters.

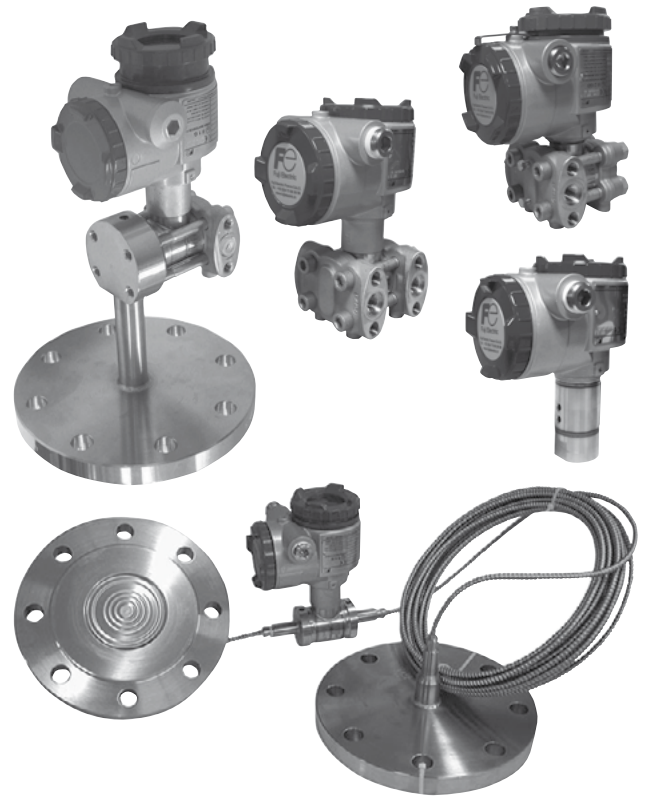
4. HART® Rev.7/Fuji Electric communication protocols

FCX-All VG series of pressure transmitters can communicate using either the universal HART or the proprietary and faster Fuji Electric communication protocol by the use of Device Description files, HART compatible devices can communicate with any FCX-All VG transmitter

5. Application flexibility

Various options are available to address most of the process industry applications, including :

- Full range of hazardous area approvals
- Built-in RFI filter and lightning arrester
- Analog or digital indicator (6 digits, 5% increment bargraph and engineering unitURs)
- Stainless steel electronics housing
- Wide selection of materials
- High temperature and high vacuum remote seals



6. Programmable output Linearization Function


The output signal can be linearized using up to 14 pair-points


7. Burnout current flexibility


The burnout current value can be adjusted within the ranges of [3.4 ; 4.0] or [20.8 ; 22.5] mA in conformity with NAMUR NE43 recommendations.

MODEL CONFIGURATION


■ STANDARD PROCESS COVERS


DIFFERENTIAL PRESSURE/FLOW TRANSMITTER		
MODEL : FKC...G	Page	
Common functional specifications	4-6	
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GAUGE PRESSURE TRANSMITTER		
MODEL : FKG...G	Page	
Common functional specifications	4-6	
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Code symbols	16	
Outline diagram	32	

ABSOLUTE PRESSURE TRANSMITTER		
MODEL : FKA...G	Page	
Common functional specifications	4-6	
Individual specifications	9	
Code symbols	17	
Outline diagram	33	

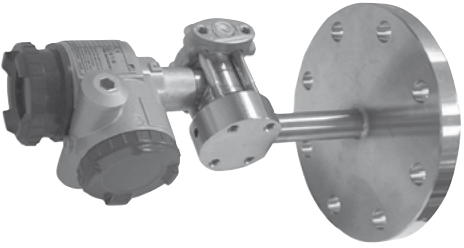
■ DIRECT MOUNTING

DIRECT MOUNTING TYPE GAUGE PRESSURE TRANSMITTER		
MODEL : FKP...G	Page	
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MODEL : FKH...G	Ref. page	
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■ LEVEL TRANSMITTER

LEVEL PRESSURE TRANSMITTER	
MODEL : FKE...G	Page
Common functional specifications	4-6
Individual specifications	10-11
Code symbols	20
Outline diagram	37

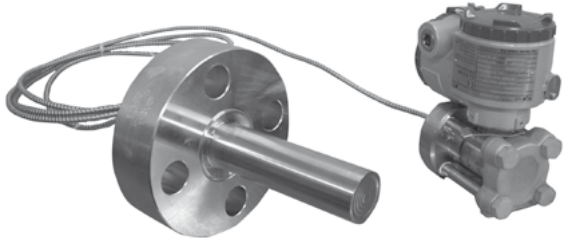


■ TRANSMITTERS WITH REMOTE SEAL(S)


REMOTE SEAL(S) TYPE DIFFERENTIAL PRESSURE/FLOW TRANSMITTER	
MODEL : FKD...VG	Page
Common functional specifications	4-6
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Outline diagram	38-39




REMOTE SEAL TYPE GAUGE OR ABSOLUTE PRESSURE TRANSMITTER	
MODEL : FKB...VG/FKM...VG	Page
Common functional specifications	4-6
Individual specifications	12
Code symbols	22-23
Outline diagram	40-41



REMOTE SEAL TYPE GAUGE PRESSURE TRANSMITTER	
MODEL : FKP...VG	Page
Common functional specifications	4-6
Individual specifications	13
Code symbols	24
Outline diagram	42-43



REMOTE SEAL TYPE ABSOLUTE PRESSURE TRANSMITTER	
MODEL : FKH...VG	Page
Common functional specifications	4-6
Individual specifications	13
Code symbols	25
Outline diagram	42-43



SPECIFICATIONS

(1) COMMON FUNCTIONAL SPECIFICATIONS

Service :

Liquid, gas, or vapour

Type :

Smart, 4-20 mA + HART/Fuji Electric digital signal

Output signal :

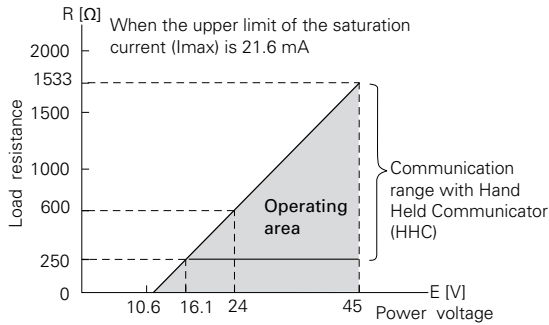
4-20 mA linear or square root for differential transmitters
4-20 mA linear for others

Power supply :

10.5 to 45 V DC at transmitter terminals
10.5 to 32 V DC with optional arrester.

Refer to Hazardous Locations sections for specific limitations.

Load limitations : see figure below



Note 1 : The load resistance varies with the upper limit of the saturation current [I max]

$$R [\Omega] = \frac{E [V] - 10.5}{(I_{max} [mA] + 0.9) \times 10^{-3}}$$

Note 2 : For communication with HHC (FXW model), a minimum load of 250 Ω is required.

Hazardous Locations:

Marking (Digit 10 =)	Protection type
ATEX	Intrinsic Safety "i"
	Ex II 1G/D
	Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +70°C)
	Ex ia IIC T5 Ga (-40°C ≤ Ta ≤ +50°C)
	Ex ia IIIC T135°C Da (-40°C ≤ Ta ≤ +70°C)
	Ex ia IIIC T100°C Da (-40°C ≤ Ta ≤ +50°C)
	IP 66/67
	Electrical Parameters :
	Ui ≤ 28 Vdc, li ≤ 110 mA, Pi ≤ 0,77 W
	Ci = 26 nF ⁽¹⁾ / 39 nF ⁽²⁾ , Li = 0.6 mH ⁽³⁾ / 0.7mH ⁽⁴⁾
	Flameproof Enclosure "d"
	Ex II 2G/D
	Ex d IIC T5 Gb (-40°C ≤ Ta ≤ +85°C)
	Ex d IIC T6 Gb (-40°C ≤ Ta ≤ +65°C)
	Ex tb IIIC T100°C Db (-40°C ≤ Ta ≤ +85°C)
	Ex tb IIIC T85°C Db (-40°C ≤ Ta ≤ +65°C)
	45 Vdc max
	Increased Safety "e"
	Ex II 3G/D
	Ex ec IIC T5 Gc (-40°C ≤ Ta ≤ +70°C)
	Ex tc IIIC T100°C Dc (-40°C ≤ Ta ≤ +70°C)
	45 Vdc max
	(M) Combination (K) + (X)

IECEX	(T)	Intrinsic Safety "i"
		Ex ia IIC T4 Ga (-40°C ≤ Ta ≤ +70°C)
		Ex ia IIC T5 Ga (-40°C ≤ Ta ≤ +50°C)
		Ex ia IIIC T135°C Da (-40°C ≤ Ta ≤ +70°C)
		Ex ia IIIC T100°C Da (-40°C ≤ Ta ≤ +50°C)
		IP 66/67
		Electrical Parameters :
		Ui ≤ 28 Vdc, li ≤ 110 mA, Pi ≤ 0,77 W
		Ci = 26 nF ⁽¹⁾ / 39 nF ⁽²⁾ , Li = 0.6 mH ⁽³⁾ / 0.7mH ⁽⁴⁾
		(R)
Ex d IIC T5 Gb (-40°C ≤ Ta ≤ +85°C)		
Ex d IIC T6 Gb (-40°C ≤ Ta ≤ +65°C)		
Ex tb IIIC T100°C Db (-40°C ≤ Ta ≤ +85°C)		
Ex tb IIIC T85°C Db (-40°C ≤ Ta ≤ +65°C)		
45 Vdc max		
(Q)	Increased Safety "e"	
	Ex ec IIC T5 Gc (-40°C ≤ Ta ≤ +70°C)	
	Ex tc IIIC T100°C Dc (-40°C ≤ Ta ≤ +70°C)	
45 Vdc max		
(N)	Combination (T) + (R)	
cCSAus	(J)	Intrinsic safety / Non Incendive / Class 1 Division 2
		IS Class I Division 1, Groups ABCD Ex ia
		Class II Groups EFG; Class III
		NI Class I Division 2, Groups ABCD
		(Per control drawing TC522873)
		Class I Division 2, Groups ABCD
		T4 (-40°C ≤ Ta ≤ +70°C)
		T5 (-40°C ≤ Ta ≤ +50°C)
		Ui ≤ 28 Vdc, li ≤ 110 mA, Pi ≤ 0,77 W
		Ci = 26 nF ⁽¹⁾ / 39 nF ⁽²⁾ , Li = 0.6 mH ⁽³⁾ / 0.7mH ⁽⁴⁾
(E)	Explosion proof	
	XP Class I Division 1, Groups CD	
	Class II Groups EFG; Class III	
	T5 (-40°C ≤ Ta ≤ +85°C)	
	T6 (-40°C ≤ Ta ≤ +65°C)	
Vmax = 42.4 Vdc		
(L)	Combination (J) + (E)	
ATEX	(W)	Combination (K) + (X) + (T) + (R) + (J) + (E)
IECEX		
cCSAus		

- (1) Without optional arrester
- (2) With optional arrester
- (3) Without analog indicator
- (4) With analog indicator

SIL Certification :

Systematic Capability: SC3 (SIL 3 capable)
Random capability: type B element, Route 1H
SIL 2@HFT=0 (1oo1)
SIL 3@HFT=1 (1oo2)
SFF = 97%.

Zero/span adjustment :

Zero and span are adjustable remotely with a Hand Held Communicator or locally with the external adjustment screw.

Damping :

The damping time constant can be used in noisy environments in order to introduce a filtering. A sliding average is performed within the selected time constant (from 0.06 up to 32 sec).

Normal / reverse action :

Selectable from the hand held communicator.

Saturation currents

Saturation currents can be both set indicate that the incoming pressure is under or over the normal 4-20 mA operating range. Saturation currents can be adjusted within the ranges of [3.6 ; 4.0] and [20.0 ; 21.6] mA

Burnout direction :

If the self-diagnostic or safety functions detect a transmitter failure, the burnout function will drive the output signal to either "Output Hold", "Output Overscale" or "Output Underscale" modes.

When "Output Hold", the output signal is held at the last value just before the failure happens.

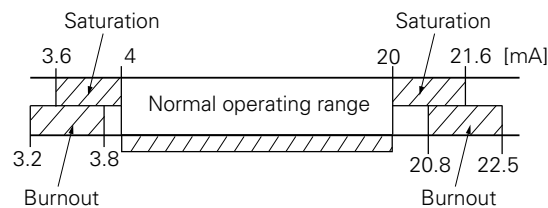
When "Output Overscale", the output signal is set within the range of [20.8 ; 22.5] mA

When "Output Underscale", the output signal is set within the range of [3.4 ; 3.8] mA

IEC 61508 / IEC 61511 considerations : In order for a logic solver or DCS to clearly distinguish the notification of a dangerous detected state from the transmitter, only "Output overscale" and "Output underscale" must be used in the safety loop.

Loop-check / fixed output current :

Transmitter can be configured to provide constant signal [3.4 ; 22.5] mA.



Temperature limit :

Ambient :

- 40 to +85°C
- 30 to +80°C (for LCD indicator option)
- 40 to +60°C (for arrester option)

Please refer to the Hazardous Locations section for temperature limitations depending the standard and protection mode.

Storage :

- 40 to +90°C

Humidity limit :

0 to 100% RH (Relative Humidity)

Configuration :

Configuration of the FCX-All series of pressure transmitters can be carried out by either using a Hand Held Communicator (ie. Fuji Electric FXW or third party HART terminal) or the 3 push-buttons optional indicator.

Third party HART hand held terminals can be used in combination with Fuji Electric FCX-All VG HART Device Description files (<https://fieldcommgroup.org>), Device Type = 1504.

Items	Fuji Electric FXW		Hart® Protocol		3 push-buttons optional indicator	
	Display	Set	Display	Set	Display	Set
Tag Nb.	v	v	v	v	v	v
Model Nb.	v	v	v	v	v	v
Serial Nb. & Software revision	v	—	v	—	v	—
Engineering units	v	v	v	v	v	v

Range limit	v	—	v	—	v	—
Measuring range	v	v	v	v	v	v
Damping	v	v	v	v	v	v
Output mode	Linear	v	v	v	v	v
	Square root	v	v	v	v	v
Burnout direction	v	v	v	v	v	v
Calibration current output	v	v	v	v	v	v
Output adjust	—	v	—	v	—	v
Measuring value	v	—	v	—	v	—
Self diagnosis	v	—	v	—	v	—
Printer (In case of FXW with printer option)	v	—	—	—	—	—
External Adj. screw lock	v	v	v	v	v	v
	—	—	v	v	v	v
Linearization	v	v	v	v	—	—
Rerange	v	v	v	v	v	v
Saturate current	v	v	v	v	v	v
Write protect	v	v	v	v	v	v
History	v	—	v	—	v	—

Note 1 : The FXW firmware revision must be higher than 7.0 in order to address FCX-All V5 "Saturation current", "Write protect" and "History" functions.

Note 2 : The "Linearization" function is not accessible through the 3 push-buttons optional indicator.

Programmable output linearization function :

The output signal can be linearized using up to 14 pairpoints

Low flow cut-off point :

The output signal is proportional to $\sqrt{\text{differential pressure}}$ between low flow cut-off and the measuring range. Between zero and low flow cut-off, the output signal is programmable to zero or linear between 0 and 20% of the flow.

Supply voltage effect :

Less than 0.05% of calibrated span and zero per 10V

Update rate :

40 msec

RFI effect:

< $\pm 0,25\%$ of URL for frequencies between 20 and 1000 MHz with an electrical field strength of 10 V/m and housing covers in place (Classification : 2-abc : 0,2% of span according SAMA PMC 33.1)

Mounting position effect :

Zero shift, less than 0.12 kPa {1.2 mbar} for a 10° tilt in any plane. This error can be corrected by adjusting Zero. (Double the effect for fluorinated fill sensor). No effect on span.

Vibration effect :

< $\pm 0,25\%$ Of span for spans greater than 1/10 of URL. Frequency 10 to 150 Hz, acceleration 39,2 m/sec².

Dielectric strength :

500 V AC, 50/60Hz 1 min., between line and mechanical ground.

Insulation resistance :

> 100 M Ω at 500 V DC

Electrical conduit

1/2-14 NPT, Pg13.5, M20x1.5, G1/2

Protection factor by enclosure

IP66/67 and type 4X

(2) COMMON PHYSICAL SPECIFICATIONS

Non-wetted parts material :

Electronics housing :

Standard :

Low copper die-cast aluminum alloy finished with polyester coating.

Option :

SS 316L

Bolts and nuts :

Standard :

Cr-Mo alloy.

Option :

SS 316L, SS 660.

Mounting bracket :

Standard :

Without : direct mounting on process or manifold (option)

Option :

SS 304L or 316L for 50 mm (2") pipe or wall mounting

Filling fluids :

Models without remote seal :

Standard : silicone oil

Option : fluorinated oil

Models with remote seal(s) :

Refer to technical specifications of the remote seal.

(3) OPTIONAL FEATURES

Local indicator :

Two possibilities are available :

- Analog indicator (2.5% accuracy) can be mounted into the electronics or the junction block compartments.
- 6 digits indicator (LCD) with 5% increment bargraph and engineering units.

A local configuration can be carried with the optional 3 push-buttons digital indicator

Arrester :

A built-in arrester protects the electronics from lightning surges.

Lightning surge immunity : 4 kV (1.2 × 50 μs).

Oxygen service (except absolute pressure transmitters) :

Special cleaning procedures are applied during the manufacturing process to maintain oil free all the wetted parts. The filling fluid is fluorinated oil.

Chlorine service (except absolute pressure transmitters) :

Same procedure and filling fluid as for oxygen service

Degreasing service :

Process-wetted parts are cleaned, but the filling fluid is the standard silicone oil.

Not to be use with oxygen or chlorine presence

NACE recommendations :

Metallic materials for all pressure boundary parts comply with NACE MR 0175/ISO 15156.

SS 660 or SS 660/660 bolts and nuts comply with NACE MR 0175/ISO 15156.

Optional tag plate :

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

Vacuum service : (see Fig.1)

A special silicone oil and filling procedure are applied for transmitter models with remote seal(s) : (FKB, FKD, FKM, FKE, FKP, FKH)

(4) ACCESSORIES

For all models :

Hand held communicator :

FXW model (refer to datasheet N° EDS8-47)

Models with standard flanges :

Oval flange :

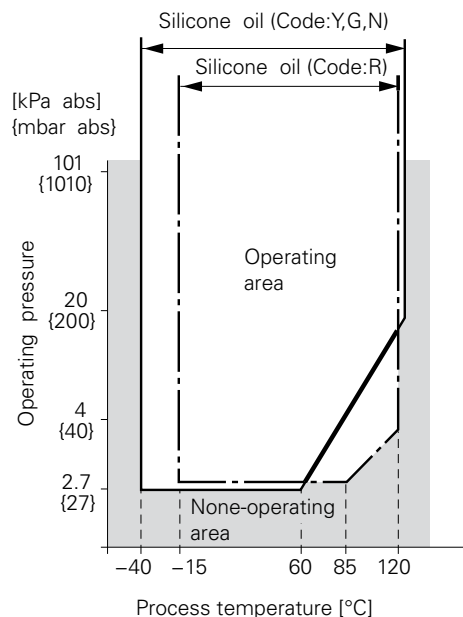
Converts process connection to 1/2"-14 NPT

Manifolds :

Available in SS 316L for 16 MPa or 42 Mpa pressure rating.

A specific procedure for filling with silicone oil is applied

Fig. 1 Relation between process temperature and operating pressure



(5) INDIVIDUAL SPECIFICATIONS

Reference conditions, silicone oil fill, SS 316L isolating diaphragms, 4 to 20 mA analog output in linear mode.

DIFFERENTIAL PRESSURE/FLOW TRANSMITTER : FK...G

Static pressure, span, and range limits :

Models	Static pressure limits MPa {bar}	Span limits kPa {m bar}		Range limits kPa {m bar}
		Min.	Max.	
FK□11	-0.1 to +3.2 {-1 to +32}	0.1 {1}	1 {10}	±1 {±10}
FK□22	-0.1 to +10 {-1 to +100}	0.1 {1}	6 {60}	±6 {±60}
FK□33	-0.1 to +16 {-1 to +160}	0.32 {3.2}	32 {320}	±32 {±320}
FK□35	-0.1 to +16 {-1 to +160}	1.3 {13}	130 {1300}	±130 {±1300}
FK□36	-0.1 to +16 {-1 to +160}	5 {50}	500 {5000}	±500 {±5000}
FK□38	-0.1 to +16 {-1 to +160}	30 {300}	3000 {30000}	±3000 {±30000}
FK□43	-0.1 to +42 {-1 to +420}	0.32 {3.2}	32 {320}	±32 {±320}
FK□45	-0.1 to +42 {-1 to +420}	1.3 {13}	130 {1300}	±130 {±1300}
FK□46	-0.1 to +42 {-1 to +420}	5 {50}	500 {5000}	±500 {±5000}
FK□48	-0.1 to +30 {-1 to +300}	30 {300}	3000 {30000}	±3000 {±30000}
FK□49*	-0.1 to +30 {-1 to +300}	500 {5000}	20000 {200000}	+20000,-10000 {+200000,-100000}

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

*Important : For FK□49, max possible overload pressure on LP side must be ≤ 100 bar.
The accuracy is not guaranteed when used at negative DP.

PERFORMANCE SPECIFICATIONS FOR LINEAR OUTPUT MODE

Accuracy rating : (including linearity, hysteresis, and repeatability)

Max span above 32 kPa to 3000 kPa models :

For spans greater than 1/10 of URL :
±0.065% of span

±0.04% of span (option)

For spans below 1/10 of URL :

$\pm(0.015+0.005 \frac{URL}{Span})$ % of span

Max span 20 MPa model :

For spans ≥ 5 MPa :

±0.1% of span

For spans < 5 MPa :

$\pm(0.05+0.05 \frac{5 \text{ MPa}}{Span})$ % of span

Max span 1kPa and 6kPa models :

For spans greater than 1/10 of URL:

±0.1% of span

For spans below 1/10 of URL:

$\pm(0.05+0.005 \frac{URL}{Span})$ % of span

Stability :

±0.1% of the URL over 10 years for 6th digit code 3, 5, 6, 8 and 9

Temperature effect :

Effects per 28°C change between the limits of -40°C and +85°C

Range code (6th digit in Code Symbols) (max. span)	Zero shift (% of span)	Total effect (% of span)
"1"/1 kPa {10 mbar} "2"/6 kPa {60 mbar}	$\pm(0.125+0.1 \frac{URL}{Span})$	$\pm(0.15+0.1 \frac{URL}{Span})$
"3"/32 kPa {320 mbar} "5"/130 kPa {1300 mbar} "6"/500 kPa {5000 mbar} "8"/3000 kPa {30000 mbar} "9"/20000 kPa {200000 mbar}	$\pm(0.075+0.0125 \frac{URL}{Span})$	$\pm(0.095+0.0125 \frac{URL}{Span})$

Double the effects for material code (7th digit in codes symbols) "H", "M", "T"

Static pressure effect :

Static pressure code (5th digit in Code symbols)	Zero shift (% of URL)
"1" / 1kPa {10 mbar} sensor	±0.2% / 3.2 MPa {32 mbar}
"2" / 6kPa {60 mbar} sensor	±0.2% / 10MPa {100 bar}
"3"	±0.035% / 6.9 MPa {69 bar}
"4"	±0.2% / 6.9 MPa {69 bar} FK□49

Double the effects for material code (7th digit in codes symbols) "H", "M", "T"

Overrange effect :

Static pressure code (5th digit in Code symbols)	Zero shift (% of URL)
"1" / 1 kPa {10 mbar}	±0.2% / 3.2 MPa {32 bar}
"2" / 6 kPa {60 mbar}	±0.2% / 10 MPa {100 bar}
"3"	±0.1% / 16 MPa {160 bar} FK□35,36,38
"3"	±0.15% / 16 MPa {160 bar} FK□33
"4"	±0.25% / 42 MPa {420 bar} FK□43,45,46,48
"4"	±0.2% / 10 MPa {100 bar} FK□49

Double the effects for material code (7th digit in codes symbols) "H", "M", "T"

PERFORMANCE SPECIFICATIONS FOR SQUARE ROOT OUTPUT MODE

Accuracy rating :

Output	Span	
	Over 0.1 × URL	Below 0.1 × URL
50 to 100%	±0.065%	±(0.015+0.05×0.1×URL/Span)%
20 to 50%	±0.163%	±2.5×(0.015+0.05×0.1×URL/Span)%
10 to 20%	±0.325%	±5×(0.015+0.05×0.1×URL/Span)%

Max span 1 kPa, 6 kPa models :

Output	Accuracy
50 to 100 %	±0.1 %
20 to 50 %	±0.25 %
10 to 20 %	±0.5 %

Temperature effect :

Effects per 28°C change between the limits of -40°C and +85°C

Range code	Shift at 20% output point
"1" and "2"	$\pm(0.375+0.25 \frac{URL}{Span})$ %/28°C
"3" through "9"	$\pm(0.24+0.03125 \frac{URL}{Span})$ %/28°C

ADDITIONAL SPECIFICATIONS

Static pressure (vacuum limits) :

Silicone filling oil : See Fig. 1

Fluorinated filling oil : 66 kPa abs (500 Torr abs) at temperature below 60°C

Over range limits :

To maximum static pressure limit

Process temperature limits :

Filling fluid	Digit 13	Process temperature
Silicone oil	Y, G, N	-40 to +120°C
Fluorinated oil	W, A, D	-20 to +80°C

Zero elevation / suppression :

±100% of the URL

Response time :

80 ms without additional damping and including the dead time of 40 ms (except digit 6 = 1 and 2)

Process connections :

1/4 - 18 NPT, meets with DIN 19213

1/2 - 14 NPT with ovale flanges

Wetted parts material :

Material code (7th digit)	Process cover	Diaphragm	Wetted sensor body	Vent/drain
V	SS 316L	SS 316L	SS 316LN	SS 316L
V	SS 316L	SS 316L	SS 316L	SS 316L
W	SS 316L	Hastelloy-C	SS 316L	SS 316L
H	SS 316L	Hastelloy-C	Hastelloy-C	SS 316L
J	SS 316L	SS 316L + Gold coating	SS 316L	SS 316L
M	SS 316L	Monel	Monel lining	SS 316L
T	SS 316L	Tantalum	Tantalum lining	SS 316L

Pressure equipment directive (PED) 2014/68/EU :

Digit 5 = 1, 2, 3, 8 and 9 according to Article 4.3

Digit 5 = 4 : Category III module H1

Weight : Refer to the general assembly drawing page 31

(Drawing 1 - Differential/Flow pressure transmitter : FK...G)

GAUGE PRESSURE TRANSMITTER : FKG...G

Span, range and overrange limits :

Models	Span limits kPa [bar]		Range limits kPa [bar]		Overrange limits MPa [bar]
	Min.	Max.	Lower limit	Upper limit	
FKG□01	1.3 [0.013]	130 [1.3]	-100 [-1]	130 [1.3]	1 [10]
FKG□02	5 [0.05]	500 [5]	-100 [-1]	500 [5]	1.5 [15]
FKG□03	30 [0.3]	3000 [30]	-100 [-1]	3000 [30]	9 [90]
FKG□04	100 [1]	10000 [100]	-100 [-1]	10000 [100]	15 [150]
FKG□05	500 [5]	50000 [500]	-100 [-1]	50000 [500]	75 [750]

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

Max span above 32kPa model :

For spans greater than 1/10 of URL :

±0.065% of span
±0.04% of span (option)

For spans below 1/10 of URL :

±(0.015+0.005 $\frac{URL}{Span}$) % of span

For model with max. span 50000 kPa :

For spans greater than 1/10 of URL :

±0.1% of span

For spans below 1/10 of URL :

±(0.05+0.005 $\frac{URL}{Span}$) % of span

Double the effects for material code (7th digit) "H", "M", "T"

Stability :

±0.1% of upper range limit (URL) for 10 years

Temperature effect :

Effects per 28°C change between the limits of - 40 °C and +85°C

Zero shift :

±(0.075+0.0125 $\frac{URL}{span}$) %

Total effect :

±(0.095+0.0125 $\frac{URL}{span}$) %

Overrange effect :

Zero shift :

0.2% of URL for any overrange to maximum limit

ADDITIONNAL SPECIFICATIONS

Low vacuum pressure range limits :

Silicone filling oil : see Fig. 2

Fluorinated filling oil : 66 kPa abs (500 Torr abs) at temperature below 60°C

Process temperature limits :

Filling fluid	Digit 13	Process temperature
Silicone oil	Y, G, N	-40 to +100°C
Fluorinated oil	W, A, D	-20 to +80°C

Zero elevation / suppression :

- 1 bar to + 100 % of the URL

Response time :

80 ms without additional damping and including the dead time of 40 ms

Process connection :

1/4 - 18 NPT, meets with DIN 19213

1/2 - 14 NPT with ovale flanges

Process wetted parts material :

Material code (7th digit)	Process cover	Diaphragm	Wetted sensor body	Vent/drain
V	SS 316L	SS 316L	SS 316L	SS 316L
W	SS 316L	Hastelloy-C	SS 316L	SS 316L
J	SS 316L	SS 316L +gold coating	SS 316L	SS 316L
H	SS 316L	Hastelloy-C	Hastelloy-C	SS 316L
M	SS 316L	Monel	Monel lining	SS 316L
T	SS 316L	Tantalum	Tantalum lining	SS 316L

Pressure equipment directive (PED) 2014/68/EU :

Digit 6 = 1, 2, 3, 4, 9 according to article 4.3

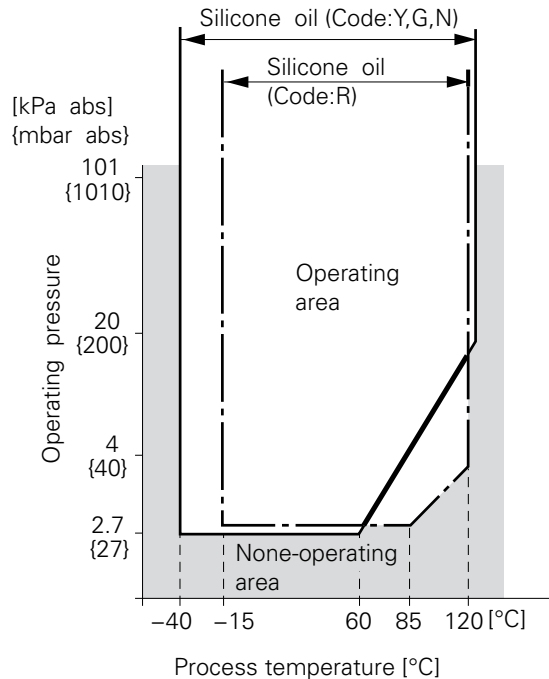
Digit 6 = 5: Category III module H1

Weight :

Refer to the general assembly drawing page 32

(Drawing 2 - Gauge pressure transmitter : FKG...G

Fig. 2 Relation between process temperature and operating pressure



ble the effects for material code (7th digit in codes symbols) "H", "M", "T"

ABSOLUTE PRESSURE TRANSMITTER : FKA...G

Span, range and overrange limits :

Models	Span limits kPa abs [bar abs]		Range limits kPa abs [bar abs]	Overrange limits MPa [bar]
	Min.	Max.		
FKA□01	1.6 {0.016}	16 {0.16}	0 to +16 {0 to +0.16}	0.5 {5}
FKA□02	1.6 {0.016}	130 {1.3}	0 to +130 {0 to +1.3}	0.5 {5}
FKA□03	5 {0.05}	500 {5}	0 to +500 {0 to +5}	1.5 {15}
FKA□04	30 {0.3}	3000 {30}	0 to +3000 {0 to +30}	9 {90}
FKA□05	100 {1}	10000 {100}	0 to +10000 {0 to +100}	15 {150}

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability).
Standard

For spans greater than 1/10 of URL :

±0.2% of span

±0,1% of span (option)

For spans below 1/10 of UR L :

$\pm(0.1 + 0.01 \frac{URL}{Span})$ % of span

Option : (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 :

$\pm(0.05 + 0.005 \frac{URL}{Span})$ % of span

Stability :

±0.2% of upper range limit (URL) for 10 years

Temperature effect :

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift : $\pm(0.125 + 0.1 \frac{URL}{Span})$ %

Total effect : $\pm(0.15 + 0.1 \frac{URL}{Span})$ %

Double the effects for material code (7th digit) "H", "M", "T"

Overrange effect :

Zero shift :

±0.2% of URL for any overrange to maximum limit

ADDITIONAL SPECIFICATIONS

Process temperature limits :

-40 to +85°C for silicone filling oil

Zero elevation / suppression :

0 kPa abs (500 Torr abs) to + 100% of the URL

Response time :

80 ms without additional damping and including the dead time of 40ms

Process connections :

1/4-18 NPT, meets with DIN 19213.

1/2-14 NPT with oval flanges.

Process-wetted parts material :

Material code (7th digit)	Process cover	Diaphragm	Wetted sensor body	Vent/drain
V	SS 316L	SS 316L	SS 316L	SS 316L
H	PVDF or SS 316L	Hastelloy C	Hastelloy C	SS 316L
J	SS 316L	SS 316L + gold coating	SS 316L	SS 316L

Pressure equipment directive (PED) 2014/68/EU :

According to article 4.3

Weight : Refer to the general assembly drawing page 33

(Drawing 3 - Absolute pressure transmitter : FKA...G)

DIRECT MOUNTING TYPE GAUGE PRESSURE TRANSMITTER : FKP...G

Span, range, and overrange limits :

Models	Span limits kPa {bar}		Range limits kPa {bar}	Overrange limits MPa {bar}
	Min.	Max.		
FKP□01	8.125 {0.08125}	130 {1.3}	-100 to + 130 {-1 to +1.3}	1 {10}
FKP□02	31.25 {0.3125}	500 {5}	-100 to + 500 {-1 to +5}	1.5 {15}
FKP□03	187.5 {1.875}	3000 {30}	-100 to +3000 {-1 to +30}	9 {90}
FKP□04	625 {6.25}	10000 {100}	-100 to +10000 {-1 to +100}	15 {150}

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL :

±0.1% of span

For spans below 1/10 of URL :

$\pm(0.05+0.005 \frac{URL}{Span})$ % of span

Stability :

±0.2% of the URL over 10 years (for digit 6 = 2, 3, 4)

Temperature effect :

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift : $\pm(0.4+0.1 \frac{URL}{Span})$ % of span

Total effect : $\pm(0.475+0.1 \frac{URL}{Span})$ % of span

Overrange effect :

Zero shif : ±0.3% of URL for any overrange to maximum limit

ADDITIONAL SPECIFICATIONS

Low vacuum pressure range limits :

Silicone filling oil : see Fig. 3

Fluorinated filling oil : 66 kPa abs (500 Torr abs) at temperature below 60°C

Process temperature limits :

Filling fluid	Digit 13	Process temperature
Silicone oil	Y, G,N	-40 to +100°C
fluorinated oil	A	-20 to +80°C

Zero elevation / suppression :

- 1 bar to + 100% of the URL

Response time :

80 ms without additional damping and including the dead time of 40 ms

Process connections :

1/2-14 NPT, 1/4-18 NPT, Rc 1/2 , G 1/2 A manometer fitting, M20 x 1,5

Process-wetted parts material :

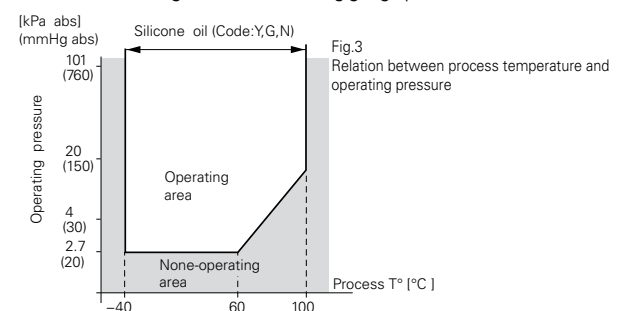
Material code (7th digit)	Process cover	Diaphragm	Wetted sensor body
J	SS 316L	SS 316L + Gold coating	SS 316L
V	SS 316L	SS 316L	SS 316L

Pressure equipment directive (PED) 2014/68/EU :

According to article 4.3

Weight : Refer to the general assembly drawing page 34

(Drawing 4 - Direct mounting gauge pressure transmitter : FKP...G)



DIRECT MOUNTING TYPE ABSOLUTE PRESSURE TRANSMITTER : FKH...G

Span, range, and overrange limits :

Models	Span limits kPa abs {bar abs}		Range limits kPa abs {bar abs}	Overrange limits MPa {bar}
	Min.	Max.		
FKH□02	8.125 (0.08125)	130 (1.3)	0 to 130 (0 to 1.3)	0.5 (5)
FKH□03	31.25 (0.3125)	500 (5)	0 to 500 (0 to 5)	1.5 (15)
FKH□04	187.5 (1.875)	3000 (30)	0 to 3000 (0 to 30)	9 (90)

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL :

±0.2% of span

For spans below 1/10 of URL :

±(0.1+0.01 $\frac{\text{URL}}{\text{Span}}$)% of span

Stability :

±0.2% of the URL for 10 years (digit 6 = 3, 4)

Temperature effect :

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift :

±(0.4+0.2 $\frac{\text{URL}}{\text{Span}}$)% of span

Total effect :

±(0.475+0.2 $\frac{\text{URL}}{\text{Span}}$)% of span

Overrange effect :

Zero shift :

±0.3% of URL for any overrange to maximum limit

ADDITIONAL SPECIFICATIONS

Process temperature limits :

Silicone filling oil :

-40 to +85°C

Zero elevation / suppression :

0 kPa abs (500 Torr abs) to + 100% of the URL

Response time :

80 ms without additional damping and including the dead time of 40 ms

Process connections :

1/2 -14 NPT, 1/4 -18 NPT, Rc 1/2 , G 1/2 A manometer fitting, M20 x 1,5

Process-wetted parts material :

Material code (7th digit)	Process cover	Diaphragm	Wetted sensor body
J	SS 316L	SS 316L + Gold coating	SS 316L
V	SS 316L	SS 316L	SS 316L

Pressure Equipment Directive (PED) 2014/68/EU :

According to article 4.3

Weight :

Refer to the general assembly drawing page 35

(Drawing 5 - Direct mounting absolute pressure transmitter : FKH...G)

LEVEL TRANSMITTER : FKE...G

Static pressure, span, and range limits :

Models	Static pressure limits	Span limits (mmH2O)		Range limits (mmH2O)
		Min.	Max.	
FKE□02	Up to flange rating	10	600	± 600
FKE□03		32	3200	± 3200
FKE□05		130	13000	± 13000
FKE□06		500	50000	± 50000
FKE□08		3000	300000	±300000

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

Standard :

For spans greater than 1/10 of URL :

±0.165% of span

For spans below 1/10 of URL :

±(0.1+0.01 $\frac{\text{URL}}{\text{Span}}$)% of span

Option :

For spans greater than 1/10 of URL :

±0.1% of span

For spans below 1/10 of URL :

±(0.05+0.005 $\frac{\text{URL}}{\text{Span}}$)% of span

Stability :

±0.2% of the URL over 10 years

Temperature effect :

Effects per 28°C change between the limits of -40°C and +85°C

Zero shift (transmitter only) :

±0.3 of URL

Zero shift (level kit only) :

+0.3 mbar/28°C

Total effect (level kit and transmitter) :

±0.3% of URL

Note :

The indicated values are for temperature compensation made on transmitter only, without level kit.

Zero shift is improved (2 to 3 times) by an additional temperature compensation of the complete level transmitter (level kit and transmitter).

Static pressure effect :

Zero shift :

±0.2% of URL/1 MPa

Span shift :

±0.2% of calibrated span/1 MPa

Double the effects for material code (7th digit) "H", "M", "T", "B", "P" and "R"

Overrange effect :

Zero shift :

±0.15% of URL (160 bar max)

Double the effects for material code (7th digit) "H", "M", "T", "B", "P" and "R"

ADDITIONAL SPECIFICATIONS

Low vacuum pressure range limits :

Silicone filling oil : (see Fig.4)

Fluorinated filling oil : 66 kPa abs (500 mmHg abs) at temperature below 60 °C (see Fig.5)

Zero elevation/Suppression :

± 100 % of the URL

Process temperature and negative pressure tolerance limit :

Filling fluid	Code in the 13th digit of "Code symbols"	Process temperature	Lower limit of static pressure
Fluorinated oil	W, A	-20 to 120°C	Atmospheric
Silicone oil	Y and G	-40 to 150°C	20 torr

Note: For higher process temperature, please consult Fuji Electric.

Response time :

Range code (6th digit)	Response time (at 23°C)
"3"	550 msec
"5" to "8"	300 msec

Whitout additional damping and including dead time of 40 ms

Process connections :

LP side :

- 1/4-18 NPT
- 1/2-14 NPT with oval flanges (option)

HP side :

- ANSI or DIN raised face fange.
- Raised face flange machining : Stockfinish - SS 316L diaphragm smooth finish
- Other diaphragm materials uppon request

Process-wetted parts material :

Material code (7th digit)	LP side			HP side
	Process cover	Diaphragm	Wetted sensor body	Diaphragm & flange face
V	SS 316L	SS 316L	SS 316L	SS 316L
W	SS 316L	Hastelloy-C	SS 316L	Hastelloy-C
H	SS 316L	SS 316L	SS 316L	Hastelloy-C
M	SS 316L	SS 316L	SS 316L	Monel
T	SS 316L	SS 316L	SS 316L	Tantalum
A	SS 316L	SS 316L	SS 316L	SS 316L + FEP lining diaphragm
B	SS 316L	SS 316L	SS 316L	SS 316L + Gold coating
P	SS 316L	SS 316L	SS 316L	Titanium
R	SS 316L	SS 316L	SS 316L	Zirconium

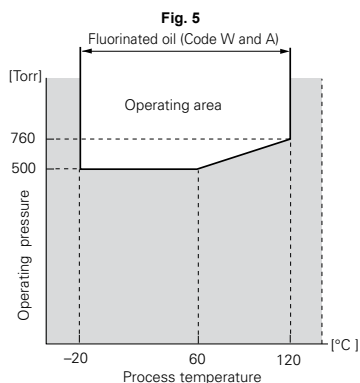
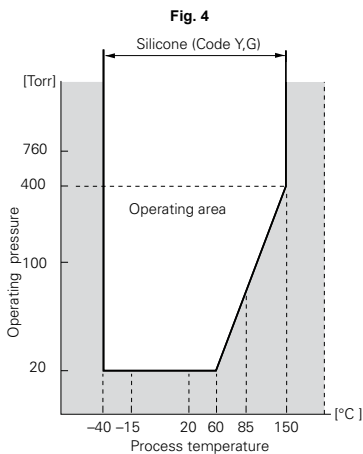
Pressure equipment directive (PED) 2014/68/EU :

According to article 4.3

Weight :

Refer to the general assembly drawing page 36-37
(Drawings 6 & 7 - Level transmitter : FKE...G)

Relation between process temperature and operating pressure



REMOTE SEAL TYPE DIFFERENTIAL PRESSURE / FLOW TRANSMITTER : FKD...VG

Static pressure, span, and range limits :

Model	Static pressure limits	Span limits [mbar]		Range limits [mbar]
		Min.	Max.	
FKD□□3	Up to flange rating	3.2	320	± 320
FKD□□5		13	1300	±1300
FKD□□6		50	5000	±5000
FKD□□8		300	30 000	±30 000
FKD□□9*		5000	200 000	±200 000

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

*Note : For FKD□49, max possible overload pressure on LP side must be ≤ 100 bar. The accuracy is not guaranteed when used at negative DP.

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL :

±0.065% of span

For spans below 1/10 of URL :

±(0.015+0.005 $\frac{URL}{Span}$) % of span

Stability :

±0.2% of the URL for 10 years

Linearity :

0,05% of calibrated span

Temperature effect :

Effects per 28°C change between the limits of - 40°C and +85°C

Zero shift : ±(0.075+0.0125 $\frac{URL}{Span}$) % of span

Total effect : ±(0.095+0.0125 $\frac{URL}{Span}$) % of span

Static pressure effect :

Zero shift :

±0.035% of URL for 100 bar

Overrange effect:

Zero shift :

±0.15% of URL/160 bar limit

ADDITIONAL SPECIFICATIONS

Over range limit :

Up to the maximum static pressure limit

Process temperature limit :

Refer to the remote seal specifications with the specific temperature conditions

Response time :

Transmitter: 80 ms

Remote seal : refer to the remote seal specifications

Process connections:

Refer to the remote seal specifications

Process-wetted parts material :

Diaphragm :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Flange face :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Extension :

SS 316L, Hastelloy-C (refer to code symbols)

Pressure Equipment Directive (PED) 2014/68/EU :

According to Article 4.3

Weight :

Refer to the general assembly drawing page 38-39

(Drawings 8 & 9 - Remote seal differential pressure/Flow transmitter : FKD...VG)

REMOTE SEAL TYPE GAUGE PRESSURE TRANSMITTER : FKB...VG

Span and range limits :

Models	Span limits [bar]		Range limits [bar]
	Min.	Max.	
FKB□□1	0,013	1,3	-1 to +13
FKB□□2	0,05	5	-1 to +5
FKB□□3	0,3	30	-1 to +30
FKB□□4	1	100	-1 to +100
FKB□□5	5	500	-1 to +500

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL :

±0.065% of span

± 0,1% of span (option)

For spans lower than 1/10 of URL :

±(0.015+0.005 $\frac{URL}{Span}$)% of span

Stability :

±0.2% of the URL over 10 years

Linearity :

0,05% of calibrated span

Temperature effect :

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift :

± 0.075+0.0125 $\frac{URL}{Span}$ % of span

Total effect :

± 0.095+0.0125 $\frac{URL}{Span}$ % of span

Overrange effect :

Zero shift :

±0.2% of URL for any overrange to maximum limit

ADDITIONNAL SPECIFICATIONS

Over range limit :

Up to the maximum static pressure limit

Process temperature limit:

Refer to the remote seal specifications with the specific temperature conditions

Zero elevation / Suppression :

-1 bar to + 100% of the URL

Response time :

Transmitter: 80 ms

Remote seal: refer to the remote seal specifications

Process connections :

Refer to the remote seal specifications

Process-wetted parts material :

Diaphragm :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Flange face :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Extension :

SS 316L, Hastelloy-C (refer to code symbols)

Pressure equipment directive (PED) 2014/68/EU

Digit 6 = 1, 2, 3, 4 according to article 4.3

Digit 6 = 5: category III model H1

Weight :

Refer to the general assembly drawings page 40-41

(Drawing 10 & 11 - Remote seal gauge pressure transmitter :

FKB...VG)

REMOTE SEAL TYPE ABSOLUTE PRESSURE TRANSMITTER : FKM...VG

Span and range limits :

Models	Span limits [bar abs]		Range limits [bar abs]
	Min.	Max.	
FKM□□1	0.016	0.16	0 to +0.16
FKM□□2	0.013	1.3	0 to +1.3
FKM□□3	0.05	5	0 to +5
FKM□□4	0.3	30	0 to +30
FKM□□5	1	100	0 to +100

Remark : To minimize environmental influence, span should be greater than 1/40 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating : (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL :

±0.2% of span

For spans lower than 1/10 of URL :

±(0.1+0.01 $\frac{URL}{Span}$)% of span

Stability :

±0.2% of the URL over 10 years

Linearity :

±0.1% of the URL

Temperature effect :

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift :

±(0.125+0.1 $\frac{URL}{Span}$)% of span

Total effect :

±(0.15+0.1 $\frac{URL}{Span}$)% of span

Overrange effect :

Zero shift :

±0.2% of URL for any overrange to maximum limit

ADDITIONNAL SPECIFICATIONS

Process temperature limit:

Refer to the remote seal specifications with the specific temperature conditions

Zero elevation / Suppression :

0 kPa to + 100% of the URL

Response time :

Transmitter: 80 ms

Remote seal: refer to the remote seal specifications

Process connections :

Refer to the remote seal specifications

Process-wetted parts material :

Diaphragm :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Flange face :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Extension :

SS 316L, Hastelloy-C (refer to code symbols)

Pressure equipment directive (PED) 2014/68/EU

According to article 4.3

Weight :

Refer to the general assembly drawings page 40-41

(Drawings 10 & 11 - Remote seal type absolute pressure transmitter : FKM...VG)

REMOTE SEAL TYPE GAUGE PRESSURE TRANSMITTER (RIGID OR CAPILLARY MOUNTED) : FKP...VG

Span, range, and overrange limits :

Model	Span limits (bar)		Range limits (bar)	Overrange limits (bar)
	Min.	Max.		
FKP□01	0,08125	1,3	-1 à +1,3	10
FKP□02	0,3125	5	-1 à +5	15
FKP□03	1,875	30	-1 à +30	90
FKP□04	6,25	100	-1 à +100	150

Remark: To minimise environmental influence, span should be greater than 1/10 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating: (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL:

±0.1% of span

For spans below 1/10 of URL:

±(0.05+0.005 $\frac{\text{URL}}{\text{Span}}$) % of span

Stability :

±0.2% of the URL over 10 years

Temperature effect:

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift :

±(0.4+0.1 $\frac{\text{URL}}{\text{Span}}$) % of span

Total effect :

±(0.475+0.1 $\frac{\text{URL}}{\text{Span}}$) % of span

Overrange effect:

Zero shift :

±0.3% of the URL (max overrange pressure = 1.5% max span)

ADDITIONNAL SPECIFICATIONS

Process temperature limit:

Refer to the remote seal specifications with the specific temperature conditions

Zero elevation / Suppression :

-1 bar to + 100% of the URL

Response time :

Transmitter : 80 ms

Remote seal : refer to the remote seal specifications

Process connections :

Refer to the remote seal specifications

Process-wetted parts material :

Diaphragm :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Flange face :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Extension :

SS 316L, Hastelloy-C (refer to code symbols)

Pressure equipment directive (PED) 2014/68/EU

According to article 4.3

Weight :

Refer to the general assembly drawings page 42-43
(Drawing 12 - Remote seal type gauge pressure transmitter : FKP...VG)

REMOTE SEAL TYPE ABSOLUTE PRESSURE TRANSMITTER (RIGID OR CAPILLARY MOUNTED) : FKH...VG

Span, range, and overrange limits :

Model	Span limits (bar)		Range limits (bar abs)	Overrange limits (bar abs)
	Min.	Max.		
FKH□02	0,08125	1,3	0 à +1,3	5
FKH□03	0,3125	5	0 à +5	15
FKH□04	1,875	30	0 à +30	90

Remark: To minimise environmental influence, span should be greater than 1/10 of the max. span in most applications.

PERFORMANCE SPECIFICATIONS

Accuracy rating: (including linearity, hysteresis, and repeatability)

For spans greater than 1/10 of URL:

±0.2% of span

For spans below 1/10 of URL:

±(0.1+0.01 $\frac{\text{URL}}{\text{Span}}$) % of span

Stability :

±0.2% of the URL over 10 years

Temperature effect :

Effect per 28°C change between the limits of -40°C and +85°C

Zero shift :

±(0.4+0.2 $\frac{\text{URL}}{\text{Span}}$) % of span

Total effect :

±(0.475+0.2 $\frac{\text{URL}}{\text{Span}}$) % of span

Overrange effect:

Zero shift :

±0.3% of the URL (max overrange pressure = 1.5% max span)

ADDITIONNAL SPECIFICATIONS

Process temperature limit:

Refer to the remote seal specifications with the specific temperature conditions

Zero elevation / Suppression :

0 kPa abs to + 100% of the URL

Response time :

Transmitter : 80 ms

Remote seal : refer to the remote seal specifications

Process connections :

Refer to the remote seal specifications

Process-wetted parts material :

Diaphragm :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Flange face :

SS 316L, Hastelloy-C, Monel, Tantalum, Titanium or Zirconium

Extension :

SS 316L, Hastelloy-C (refer to code symbols)

Pressure equipment directive (PED) 2014/68/EU

According to article 4.3

Weight :

Refer to the general assembly drawings page 42-43
(Drawing 13 - Remote seal type absolute pressure transmitter : FKH...VG)

CODE SYMBOLS

DIFFERENTIAL PRESSURE / FLOW TRANSMITTER : FKC...G

1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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</tr></thead></table>																																1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927
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DIFFERENTIAL PRESSURE / FLOW TRANSMITTER : FKC...G

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	DESCRIPTION	
F	K	C					G										
							G	A								Indicator	Arrester
							G	B								None	None
							G	C							(*11) Analog, 0-100% linear scale		
							G	D							(*11) Analog, 0-100% √ scale		
							G	J							(*11) Analog, Custom scale		
							G	E							(*11) Analog, double scale		
							G	F							None		
							G	G							(*11) Analog, 0-100% linear scale	Yes	
							G	H							(*11) Analog, 0-100% √ scale		
							G	K							(*11) Analog, Custom scale		
							G	1							(*11) Analog, double scale		
							G	2							Digital, 0-100% with push button	None	
							G	3							Digital, Custom scale with push button		
							G	4							Digital, 0-100% √ scale with push button		
							G	5							Digital, 0-100% with push button	Yes	
							G	6							Digital, Custom scale with push button		
																Digital, 0-100% √ scale with push button	
																Hazardous location approvals	
							A									None	
							X									(*10) ATEX - Flameproof	
							K									ATEX - Intrinsic Safety	
							P									ATEX - Increased Safety	
							M									(*10) ATEX - Combination Flameproof and Intrinsic Safety	
							E									(*10) cCSAus - Explosion proof	
							J									cCSAus - Intrinsic Safety and Non Incendive	
							L									(*10) cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive	
							R									(*10) IECEx - Flameproof	
							T									IECEx - Intrinsic Safety	
							Q									IECEx - Increased Safety	
							N									(*10) IECEx - Combination Flameproof and Intrinsic Safety	
							W									(*10) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive	
																Side vent/drain	Mounting bracket
							A									None (standard)	None
							C										SS 304L
							K										SS 316L
							D									Yes	None
							F										SS 304L
							L										SS 316L
																Stainless steel parts	
																TAG plate	Housing
							Y									None	None
							B									Yes	
							C									(*13) None	Yes
							E									(*13) Yes	
																Special applications & filling fluid	
																Treatment	Filling fluid
							Y									None	Silicone oil
							W										Fluorinated oil
							G									Degreasing	Silicone oil
							A									Oxygen service	Fluorinated oil (only with digit 7=J, V, W)
							D									Chlorine service	Fluorinated oil (only with digit 7=H,T)
							N									(*7) NACE	Silicone oil
																Process cover gasket	
							-	A									Viton
							-	C									PTFE square section for SS flange
							-	D								(*5) PTFE square section for PVDF insert	
																(*3)	Bolts/screws material
							A										Carbon steel Cr-Mo - M10 for static pressure < 160 bar
							U										SS 316L / 316L - M10 for static pressure < 160 bar
							V										Carbon steel Cr-Mo - M12 for static pressure > 160 bar
							W									(*7)	SS 660/660 - M10 for static pressure < 160 bar
							W									(*7)	SS 660/660 - M12 for static pressure > 160 bar
																	Special options
							(*6)	-	*								special, no code available

Notes* :

- M12 thread if static pressure > 160 bar.
- Turn down ratio of 100 is possible but span greater than 1/40 of the the URL is recommended for better performances.
- For M10 bolts/nuts : maximum static pressure = 160 bar. For static pressure > 160 bar : M12 is required.
- Gold coating on wetted parts of the measuring cell for hydrogen service. Gold/ceramic coating available upon request.
- Process cover with PVDF insert : 1/2"-14 NPT side process connection, no vent/drain, square section PTFE gasket. Other upon request.
- When no code can be found in the current model code, place "*" in the corresponding digit code as well as in the 16th digit.
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156
- For static pressure = 420 bar and PTFE process cover gasket, use only code "R", "T" or "X".
- Process connection on the bottom side with side vent/drain.
- Only with digit 4 = "M", "P", "R", "T", "W", "6", "8"
- Except digit 10 = "P", "Q"
- For static pressure = 420 bar and PTFE process cover gasket, use only "5", "6" or "9" codes
- SS 316L enclosure not available for "T" shape version

GAUGE PRESSURE TRANSMITTER : FKG...G

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16																	
F	K	G														DESCRIPTION	
R T V W X 5 6 7 8 9																Type Gauge pressure - Smart, 4-20 mA + HART/Fuji Electric communication protocols	
																Connections	
						Process connection			Oval flange threading			Conduit connection			Enclosure type		
						1/4 - 18 NPT			7/16 - 20 UNF			M20 x 1,5			"L" shape		
						(*1)			M10 or M12			1/2 - 14 NPT					
						(*1)			7/16 - 20 UNF			M20 x 1,5			"T" shape		
						Rc 1/4			7/16 - 20 UNF			G 1/2					
						(*1)			1/4 - 18 NPT			1/2 - 14 NPT			"T" shape		
						(*1)			M10 or M12			Pg13,5					
						(*1)			7/16 - 20 UNF			M20 x 1,5			"T" shape		
			(*1)			7/16 - 20 UNF			Pg13,5								
Range & Materials																	
(*2) Measuring ranges Process cover Diaphragm Wetted cell body																	
0 1 V						13 to 1300 mbar			SS 316L			SS 316L					
0 1 W									Hastelloy C			Hastelloy C					
0 1 H									Monel			Monel lining					
0 1 M									Gold coat			SS 316L					
0 1 J						(*3)			Tantalum			Tantalum lining					
0 1 T									Hastelloy C			Hastelloy C					
9 1 H						(*4)			PVDF insert			Monel					
9 1 M						(*4)						Monel lining					
9 1 T						(*4)						Tantalum					
0 2 V						0,05 to 5 bar			SS 316L			SS 316L					
0 2 W									Hastelloy C			Hastelloy C					
0 2 H									Monel			Monel lining					
0 2 M									Gold coat			SS 316L					
0 2 J						(*3)			Gold / ceramic			Gold / ceramic					
0 2 C						(*3)			Tantalum			Tantalum lining					
0 2 T									Hastelloy C			Hastelloy C					
9 2 H						(*4)			PVDF insert			Monel					
9 2 M						(*4)						Monel lining					
9 2 T						(*4)						Tantalum					
0 3 V						0,3 to 30 bar			SS 316L			SS 316L					
0 3 W									Hastelloy C			Hastelloy C					
0 3 H									Monel			Monel lining					
0 3 M									Gold coat			SS 316L					
0 3 J						(*3)			Gold / ceramic			Gold / ceramic					
0 3 C						(*3)			Tantalum			Tantalum lining					
0 3 T									Hastelloy C			Hastelloy C					
9 3 H						(*4)			PVDF insert			Monel					
9 3 M						(*4)						Monel lining					
9 3 T						(*4)						Tantalum					
0 4 V						1 to 100 bar			SS 316L			SS 316L					
0 4 W									Hastelloy C			Hastelloy C					
0 4 H									Monel			Monel lining					
0 4 M									Gold coat			SS 316L					
0 4 J						(*3)			Gold / ceramic			Gold / ceramic					
0 4 C						(*3)			Tantalum			Tantalum lining					
0 4 T									Hastelloy C			Hastelloy C					
0 5 V						5 to 500 bar			SS 316L			SS 316L					
0 5 W									Hastelloy C			Hastelloy C					
0 5 H									Gold coat			SS 316L					
0 5 J						(*3)			Gold coat			SS 316L					
Indicator Arrester																	
G - A						None						None					
G - B						(*8) Analog, 0-100% linear scale						None					
G - D						(*8) Analog, Custom scale						None					
G - J						(*8) Analog, double scale						None					
G - E						None						Yes					
G - F						(*8) Analog, 0-100% linear scale						Yes					
G - H						(*8) Analog, Custom scale						Yes					
G - K						(*8) Analog, double scale						None					
G - 1						digital, 0-100% with push buttons						None					
G - 2						digital, Custom scale with push buttons						None					
G - 4						digital, 0-100% with push buttons						Yes					
G - 5						digital, Custom scale with push buttons						Yes					
Hazardous location approvals																	
None																	
A						(*7) ATEX - Flameproof											
X						ATEX - Intrinsic Safety											
K						ATEX - Increased Safety											
P						ATEX - Combination Flameproof and Intrinsic Safety											
M						(*7) cCSAus - Explosion proof											
E						cCSAus - Intrinsic Safety and Non Incendive											
J						(*7) cCSAus - Combination Explosion proof, Intrinsic Safety and Non Incendive											
L						(*7) IECEx - Flameproof											
R						IECEX - Intrinsic Safety											
Q						IECEX - Increased Safety											
N						(*7) IECEx - Combination Flameproof and Intrinsic Safety											
W						(*7) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive											
Side Vent/drain Mounting bracket																	
A						None						None					
C						None (Standard)						SS 304L					
K												SS 316L					
D												None					
F						Yes						SS 304L					
L												SS 316L					
Stainless steel parts																	
TAG plate Housing																	
Y						None						None					
B						Yes						None					
C						(*9) None						Yes					
E						(*9) Yes						Yes					
Special applications & filling fluids																	
Treatment Filling fluid																	
Y						None (std)						Silicone oil					
W												Fluorinated oil					
G						Degreasing						Silicone oil					
A						Oxygen service						Fluorinated oil (only with digit 7 = V)					
N						Chlorine service						Fluorinated oil (only with digit 7 = H, T)					
D						(*6) NACE						Silicone oil					
Process cover gasket																	
- A						Viton											
- C						PTFE square section gasket in SS flange											
- D						PTFE square section gasket in PVDF insert											
Bolts/screws material																	
A						Carbon steel Cr-Mo - M10 (standard)											
U						SS 316L / SS 316L - M10											
V						Carbon steel Cr-Mo - M12 for static pressure > 100 bar											
W						(*6) SS 660 / SS 660 - M10 for static pressure < 100 bar											
W						(*6) SS 660 / SS 660 - M12 for static pressure > 100 bar											
Special options or design																	
(*5) - *						Special, no code available											

Notes* :

- M12 oval flange screws are required for pressure > 100 bar.
- Turn down ration of 100 is possible but span greater than 1/40 of the the URL is recommended for better performances.
- Gold coating on wetted parts of the measuring cell for hydrogen service. Gold/ceramic coating available upon request.
- Process cover with PVDF insert: 1/2"-14 NPT side process connection, no vent/drain, square section PTFE gasket. Other upon request
- When no code can be found in the current model code, place "*" in the corresponding digit code as well as in the 16th digit.
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156 and must be used for NACE service
- Only with digit 4 = "R", "T", "W", "6", "8"
- Except digit 10 = "P", "Q"
- SS 316L enclosure not available for "T" shape version

ABSOLUTE PRESSURE TRANSMITTER : FKA...G

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	DESCRIPTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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insert</td><td>Hastelloy C</td></tr> <tr> <td rowspan="4">0,016 to 1,3 bar abs</td><td rowspan="4">SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>Gold coating</td><td>SS 316L</td></tr> <tr> <td>PVDF insert</td><td>Hastelloy C</td></tr> <tr> <td rowspan="4">0,05 to 5 bar abs</td><td rowspan="4">SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>Gold coating</td><td>SS 316L</td></tr> <tr> <td>PVDF insert</td><td>Hastelloy C</td></tr> <tr> <td rowspan="4">0,3 to 30 bar abs</td><td rowspan="4">SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>Hastelloy C</td><td>Hastelloy C</td></tr> <tr> <td>Gold coating</td><td>SS 316L</td></tr> <tr> <td>PVDF insert</td><td>Hastelloy C</td></tr> <tr> <td rowspan="2">1 to 100 bar abs</td><td rowspan="2">SS 316L</td><td>SS 316L</td><td>SS 316L</td></tr> <tr> <td>Gold coating</td><td>SS 316L</td></tr> </tbody> </table>	Measuring ranges	Process cover	Diaphragm	Wetted cell body	0,016 to 0,16 bar abs	SS 316L	SS 316L	SS 316L	Hastelloy C	Hastelloy C	Gold coating	SS 316L	PVDF insert	Hastelloy C	0,016 to 1,3 bar abs	SS 316L	SS 316L	SS 316L	Hastelloy C	Hastelloy C	Gold coating	SS 316L	PVDF insert	Hastelloy C	0,05 to 5 bar abs	SS 316L	SS 316L	SS 316L	Hastelloy C	Hastelloy C	Gold coating	SS 316L	PVDF insert	Hastelloy C	0,3 to 30 bar abs	SS 316L	SS 316L	SS 316L	Hastelloy C	Hastelloy C	Gold coating	SS 316L	PVDF insert	Hastelloy C	1 to 100 bar abs	SS 316L	SS 316L	SS 316L	Gold coating	SS 316L																	Indicator																	Arrester																	<table border="1"> <tbody> <tr> <td>G - A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>None</td></tr> <tr> <td>G - B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="3">None</td></tr> <tr> <td>G - D</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>G - J</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>G - E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="3">Yes</td></tr> <tr> <td>G - F</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>G - H</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td>G - K</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td rowspan="3">None</td></tr> <tr> <td>G - 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Safety</td></tr> <tr> <td>Q</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>IECEx - Increased Safety</td></tr> <tr> <td>N</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(*5) IECEx - Combination Flameproof and Intrinsic Safety</td></tr> <tr> <td>W</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>(*5) IECEx - ATEX - cCSAus - Explosion/Flameproof, Intrinsic Safety and Non Incendive</td></tr> </tbody> </table>	A																None	X																(*5) ATEX - Flameproof	K																ATEX - Intrinsic Safety	P																ATEX - Increased Safety	M																(*5) ATEX - Combination Flameproof and Intrinsic Safety	E																(*5) cCSAus - Explosion proof	J																cCSAus - Intrinsic 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Notes* :

- Turn down ratio of 100 is possible but span greater than 1/40 of the the URL is recommended for better performances.
- When no code can be found in the current model code, place *** in the corresponding digit code as well as in the 16th digit.
- Process cover with PVDF insert: 1/2"-14NPT side process connection, no vent/drain, PTFE square section gasket.
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156
- Only with digit 4 = "R", "T", "W", "G", "8"
- Except digit 10 = "P", "Q"
- SS 316L enclosure not available for "T" shape version
- Gold coating on wetted parts of the measuring cell for hydrogen service.

DIRECT MOUNT TYPE GAUGE PRESSURE TRANSMITTER : FKP...G

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	DESCRIPTION
F	K	P		0			G						0		Type Gauge pressure, direct mounting - Smart, 4-20 mA + HART/Fuji Electric communication protocol
T V W 5 6 7 8	Connections														
	Process connection				Conduit connection				Enclosure type						
	See digit 15				1/2 - 14 NPT				"L" shape						
					Pg13,5										
					M20 x 1,5				"T" shape						
					G 1/2										
					1/2 -14 NPT										
					Pg13,5										
M20 x 1,5															
Range & materials															
Measuring range				Diaphragm				Wetted cell body							
0	1	V													0,08125 to 1,3 bar
0	1	J													(*4)
0	2	V													0,3125 to 5 bar
0	2	J													(*4)
0	3	V													1,875 to 30 bar
0	3	J													(*4)
0	4	V													6,25 to 100 bar
0	4	J													(*4)
Indicator															
None															
G	-	A													(*2) Analog, 0-100% linear scale
G	-	B													(*2) Analog, Custom scale
G	-	D													(*2) Analog, double scale
G	-	J													(*2) Analog, double scale
G	-	E													None
G	-	F													(*2) Analog, 0-100% linear scale
G	-	H													(*2) Analog, Custom scale
G	-	K													(*2) Analog, double scale
G	-	1													Digital, 0-100% with push button
G	-	2													Digital, Custom scale with push button
G	-	4													Digital, 0-100% with push button
G	-	5													Digital, Custom scale with push button
Arrester															
None															
Hazardous location approvals															
None															
A															(*1) ATEX - Flameproof
X															ATEX - Intrinsic Safety
K															ATEX - Increased Safety
P															ATEX - Increased Safety
M															(*1) ATEX - Combination Flameproof and Intrinsic Safety
E															(*1) cCSAus - Explosion proof
J															cCSAus - Intrinsic Safety and Non Incendive
L															(*1) cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive
R															(*1) IECEx - Flameproof
T															IECEX - Intrinsic Safety
Q															IECEX - Increased Safety
N															(*1) IECEx - Combination Flameproof and Intrinsic Safety
W															(*1) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive
Mounting bracket															
None															
A															Yes, SS 304L
C															
Stainless Steel parts															
Tag plate				Housing											
Y															None
B															None
C															(*3) None
E															Yes
Special applications & filling fluid															
Treatment				Filling fluid											
Y															None
G															Silicone oil
A															Degreasing
N															Oxygen service
															Fluorinated oil
															NACE
															Silicone oil
Process connection- Welded adaptor - All stainless steel parts															
-	0	Y													1/2 - 14 NPTI
-	0	B													Rc 1/2
-	0	C													1/4 - 18 NPT
-	0	D													1/2 - 14 NPT
-	0	E													G 1/2A manometer fitting
-	0	F													M20 x 1,5

- Notes* :
- 1- Only with digit 4 = "T", "W", "6", "8"
 - 2- Except digit 10 = "P", "0"
 - 3- SS 316L enclosure not available for "T" shape version
 - 4- Gold coating on wetted parts of the measuring cell for hydrogen service

DIRECT MOUNT TYPE ABSOLUTE PRESSURE TRANSMITTER : FKH...G

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	DESCRIPTION																										
F	K	H		0			G							0																											
															Type Absolute pressure, direct mounting - Smart, 4-20 mA + HART/Fuji Electric communication protocol																										
															Connections																										
															<table border="1"> <thead> <tr> <th>Process connection</th><th>Conduit entry</th><th>Enclosure type</th></tr> </thead> <tbody> <tr> <td rowspan="6">See digit 15</td><td>1/2 -14 NPT</td><td rowspan="3">"L" shape</td></tr> <tr> <td>Pg13,5</td></tr> <tr> <td>M20 x 1,5</td></tr> <tr> <td>G 1/2</td><td rowspan="3">"T" shape</td></tr> <tr> <td>1/2 - 14 NPT</td></tr> <tr> <td>Pg13,5</td></tr> <tr> <td>M20 x 1,5</td></tr> </tbody> </table>	Process connection	Conduit entry	Enclosure type	See digit 15	1/2 -14 NPT	"L" shape	Pg13,5	M20 x 1,5	G 1/2	"T" shape	1/2 - 14 NPT	Pg13,5	M20 x 1,5													
Process connection	Conduit entry	Enclosure type																																							
See digit 15	1/2 -14 NPT	"L" shape																																							
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	Pg13,5																																								
M20 x 1,5																																									
															Range & wetted parts material																										
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															Indicator																										
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Notes* :

- 1- Only with digit 4 = "T", "W", "6", "8"
- 2- Except digit 10 = "P", "0"
- 3- SS 316L enclosure not available for "T" shape version
- 4- Gold coating on wetted parts of the measuring cell for hydrogen service

LEVEL TRANSMITTER : FKE...G

DESCRIPTION																																									
Type Level - Smart, 4-20 mA + HART/Fuji Electric communication protocols																																									
Connections																																									
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Notes* :

- Turn down ration of 100:1 is possible but span greater than 1/40 of the the URL is recommended for better performances.
- For DN50 PN40 or 2" seal, specific diaphragm materials: please consult Fuji Electric
- All wetted parts in the same material (diaphragm, extension and seal land surface)
- When no code can be found in the current model code, place "*" in the corresponding digit code as well as in the 16th digit.
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156
- Only with digit 4 = "R", "T", "W", "6" and "8"
- Please consult Fuji Electric regarding process conditions
- Except digit 10 = "P", "Q"
- SS 316L enclosure not available for "T" shape version

REMOTE SEAL TYPE DIFFERENTIAL PRESSURE TRANSMITTER : FKD...VG

1 2 3 4 5 6 7 8 9 10 11 12 13													DESCRIPTION					
F	K	D				V	G	-				Y						
													Type					
													Differential pressure transmitter with remote seals - Smart, 4-20 mA + HART/Fuji Electric communication protocol					
T V W 5 6 7 8														Conduit connection	Enclosure type			
														1/2 - 14 NPT	"L" shape			
														Pg13.5				
														M20 x 1.5				
														G 1/2	"T" shape			
														1/2 - 14 NPT				
														Pg13.5				
														M20 x 1.5				
													(*11) Diaphragm seal rating					
2														PN 25				
4														PN 20 - 150 lbs				
6														PN 50 - 300 lbs				
8														PN 40				
9														PN 16				
L														PN 100 - 600 lbs				
M														PN 150 - 900 lbs				
N														(*9) PN 250 - 1500 lbs				
P														(*9) PN 420 - 2500 lbs				
													(*1) Measuring range					
3														(*2) 3,2 to 320 mbar				
5														(*2) 0,013 to 1,3 bar				
6														0,05 to 5 bar				
8														0,3 to 30 bar				
9														2 to 200 bar				
													Indicator	Arrester				
V	G	-	A														None	None
V	G	-	B														(*4) Analog, 0-100% linear scale	
V	G	-	C														(*4) Analog, 0-100% √	
V	G	-	D														(*4) Analog, Custom scale	
V	G	-	J														(*4) Analog, double scale	
V	G	-	E														None	
V	G	-	F														(*4) Analog, 0-100% linear scale	Yes
V	G	-	G														(*4) Analog, 0-100% √	
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V	G	-	3														Digital, 0-100% √ with push buttons	
V	G	-	4														Digital, 0-100% with push buttons	Yes
V	G	-	5														Digital, Custom scale with push buttons	
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J														cCSAus - Intrinsic Safety and Non Incendive				
L														(*7) cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive				
R														(*7) IECEx - Flameproof				
T														IECEx - Intrinsic Safety				
Q														IECEx - Increased Safety				
N														(*7) IECEx - Combination Flameproof and Intrinsic Safety				
W														(*7) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive				
													(*3) (*6) Mounting design	Ambient temperature correction				
B														Capillary on HP side	Transmitter and diaphragm seal assembly			
C														Capillary on HP & LP side				
E														(*12) Rigid short design on HP, capillary on LP side				
G														Capillary on HP side	Transmitter			
H														Capillary on HP & LP side				
													(*5) Cell flange design	Stainless steel parts				
													Operating pressure	Bolts/nuts	Tag plate	Housing		
1	Y												(*10)(*12) p ≤ 50 bar	None	None	None		
2	Y												(*10)(*12)		Yes			
3	Y												(*10)(*12)		None	Yes		
4	Y												(*10)(*12)		Yes			
Y	Y													None	None			
B	Y												50 bar < p ≤ 420 bar	Carbon steel		Yes		
C	Y												(*10)		None	Yes		
E	Y												(*10)		Yes			
A	Y														None	None		
D	Y												50 bar < p ≤ 160 bar	SS 316L	Yes			
F	Y												(*10)		None	Yes		
G	Y												(*10)		Yes			
H	Y												(*8)		None	None		
J	Y												(*8)		Yes			
K	Y												(*8)(*10) 50 bar < p ≤ 420 bar	SS 660	None	Yes		
L	Y												(*8)(*10)		Yes			

Notes* :

- Turn down ratio of 100 is possible but span greater than 1/40 of the the URL is recommended for better performances.
- For DN<50, please consult Fuji Electric regarding the process conditions
- For capillary version, the standard mounting bracket is provided. No mounting bracket with rigid mounting version.
- Except Digit 10 = "P", "Q"
- Standard cell filling fluid = silicone oil. Other filling fluids upon request.
- Temperature correction must be done when diaphragm seals or capillarity lengths are different between HP and LP
- Only with Digit 4 = "T", "W", "6", "8"
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156
- High static pressure cell is mandatory.
- SS 316L enclosure not available for "T" shape version
- The flange rating is according to the Maximum Working Pressure
- For rigid assembling, please specify bolting, even if P ≤ 50 bar

REMOTE SEAL TYPE GAUGE PRESSURE TRANSMITTER : FKB...VG

1 2 3 4 5 6 7 8 9 10 11 12 13													DESCRIPTION						
F	K	B				V	G	-				Y							
													Type						
													Gauge pressure transmitter with remote seal - Smart, 4-20 mA + HART/Fuji Electric communication protocol						
T V W 5 6 7 8													Conduit connection	Enclosure type					
													1/2 - 14 NPT	"L" shape					
													Pg13.5						
													M20 x 1.5	"T" shape					
													G 1/2						
													1/2 - 14 NPT						
													Pg13.5						
													M20 x 1.5						
													(*3) Diaphragm seal rating						
2													PN 25						
4													PN 20 - 150 lbs						
6													PN 50 - 300 lbs						
8													PN 40						
9													PN 16						
L													PN 100 - 600 lbs						
M													PN 150 - 900 lbs						
N													PN 250 - 1500 lbs						
P													PN 420 - 2500 lbs						
													(*1) Measuring range						
1													(*2) 0.013 to 1.3 bar						
2													(*2) 0.05 to 5 bar						
3													0.3 to 30 bar						
4													1 to 100 bar						
5													(*3) 5 to 500 bar						
													Indicator	Arrester					
V	G	-	A													None	None		
V	G	-	B													(*5) Analog, 0-100% linear scale			
V	G	-	D													(*5) Analog, Custom scale			
V	G	-	J													(*5) Analog, double scale			
V	G	-	E													None	Yes		
V	G	-	F													(*5) Analog, 0-100% linear scale			
V	G	-	H													(*5) Analog, Custom scale			
V	G	-	K													(*5) Analog, double scale			
V	G	-	1													Digital, 0-100% with push button	None		
V	G	-	2													Digital, Custom scale with push button			
V	G	-	4													Digital, 0-100% with push button	Yes		
V	G	-	5													Digital, Custom scale with push button			
													Hazardous location approvals						
A													None						
X													(*7) ATEX - Flameproof						
K													ATEX - Intrinsic Safety						
P													ATEX - Increased Safety						
M													(*7) ATEX - Combination Flameproof and Intrinsic Safety						
E													(*7) cCSAus - Explosion proof						
J													cCSAus - Intrinsic Safety and Non Incendive						
L													(*7) cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive						
R													(*7) IECEx - Flameproof						
T													IECEx - Intrinsic Safety						
Q													IECEx - Increased Safety						
N													(*7) IECEx - Combination Flameproof and Intrinsic Safety						
W													(*7) IECEx - ATEX - cCSAus - Explosion/Flameproof, Intrinsic Safety and Non Incendive						
													(*4) Mounting design		Ambient temperature correction				
B													Capillary		Transmitter and diaphragm seal assembly				
L													(*10) Rigid - Long design (in line)						
M													(*10) Rigid - Short design (90°)						
G													Capillary		Transmitter				
S													(*10) Rigid - Long design (in line)						
T													(*10) Rigid - Short design (90°)						
													(*6) Cell flange design		Stainless steel parts				
													Operating pressure	Bolts/nuts	Tag plate	Housing			
1	Y												p ≤ 50 bar	None	None	None			
2	Y														Yes				
3	Y														None		Yes		
4	Y														Yes				
Y	Y												None	Carbon steel	None				
B	Y												Yes						
C	Y												None			Yes			
E	Y												Yes						
A	Y												None	SS 316L	None				
D	Y												Yes						
F	Y												None			Yes			
G	Y												Yes						
H	Y												None	SS 660	None				
J	Y												Yes						
K	Y												None			Yes			
L	Y												Yes						

Notes* :

- Turn down ratio of 100 is possible but span greater than 1/40 of the the URL is recommended for better performances.
- Please consult Fuji Electric regarding the process conditions
- The flange rating is according to the Maximum Working Pressure. For DN < 50 and/or PN > 150 bar, please consult Fuji Electric
- For capillary version, the standard mounting bracket is provided. No mounting bracket with rigid mounting version.
- Except Digit 10 = "P", "Q"
- Standard cell filling fluid = silicone oil. Other filling fluids upon request.
- Only with Digit 4 = "T", "W", "6", "8"
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156
- SS 316L enclosure not available for "T" shape version
- For rigid assembling, please specify bolting, even if P ≤ 50 bar

REMOTE SEAL TYPE ABSOLUTE PRESSURE TRANSMITTER : FKM...VG

1 2 3 4 5 6 7 8 9 10 11 12 13													DESCRIPTION							
F	K	M			V	G	-					Y								
													Type							
													Absolute pressure transmitter with remote seal - Smart, 4-20 mA + HART/Fuji Electric communication protocol							
													Conduit connection		Enclosure type					
													1/2 - 14 NPT		"L" shape					
													Pg13.5							
													M20 x 1.5		"T" shape					
													G 1/2							
													1/2 - 14 NPT							
													Pg13.5							
													M20 x 1.5							
													(*9) Diaphragm seal rating							
													PN 25							
													PN 20 - 150 lbs							
													PN 50 - 300 lbs							
													PN 40							
													PN 16							
													(*1) Measuring range							
													(*2) 0.016 to 0.16 bar abs							
													(*2) 0.013 to 1.3 bar abs							
													0.05 to 5 bar abs							
													0.3 to 30 bar abs							
													1 to 100 bar abs							
													Indicator		Arrester					
													None		None					
													(*4) Analog, 0-100% linear scale							
													(*4) Analog, Custom scale		Yes					
													(*4) Analog, double scale							
													None		None					
													(*4) Analog, 0-100% linear scale							
													(*4) Analog, Custom scale		Yes					
													(*4) Analog, double scale							
													None		None					
													Digital, 0-100% with push buttons							
													Digital, Custom scale with push buttons		Yes					
													Digital, 0-100% with push buttons							
													Digital, Custom scale with push buttons							
													Hazardous location approvals							
													None							
													(*6) ATEX - Flameproof							
													ATEX - Intrinsic Safety							
													ATEX - Increased Safety							
													(*6) ATEX - Combination Flameproof and Intrinsic Safety							
													(*6) cCSAus - Explosion proof							
													cCSAus - Intrinsic Safety and Non Incendive							
													(*6) cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive							
													(*6) IECEx - Flameproof							
													(*6) IECEx - Intrinsic Safety							
													IECEx - Increased Safety							
													(*6) IECEx - Combination Flameproof and Intrinsic Safety							
													(*6) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive							
													(*3) Mounting design		Ambiant temperature correction					
													Capillary		Transmitter and diaphragm seal assembly					
													(*10) Rigid - Long design (in line)							
													(*10) Rigid - Short design (90°)		Transmitter					
													Capillary							
													(*10) Rigid - Long design (in line)		None					
													(*10) Rigid - Short design (90°)							
													(*5) Cell flange design		Stainless steel parts					
													Operating pressure		Bolts/nuts		Tag plate		Housing	
													1 Y (*10)		p ≤ 50 bar		None		None	
													2 Y (*10)		None		Yes		None	
													3 Y (*8)(*10)		None		None		Yes	
													4 Y (*8)(*10)		None		Yes		None	
													Y Y		Carbon steel		None		None	
													B Y		None		Yes		Yes	
													C Y (*8)		SS 316L		None		None	
													E Y (*8)		None		Yes		Yes	
													A Y		None		None		None	
													D Y		SS 316L		Yes		None	
													F Y (*8)		None		None		Yes	
													G Y (*8)		None		Yes		None	
													H Y (*7)		None		None		None	
													J Y (*7)		SS 660		Yes		None	
													K Y (*7)(*8)		None		None		Yes	
													L Y (*7)(*8)		Yes		None		Yes	

Notes* :

- Turn down ratio of 100:1 is possible but span greater than 1/40 of the URL is recommended for better performances.
- Please consult Fuji Electric regarding the process conditions
- For capillary version, the standard mounting bracket is provided. No mounting bracket with rigid mounting version.
- Except digit 10 = "P", "Q"
- Standard cell filling fluid = silicone oil. Other filling fluids upon request.
- Only with Digit 4 = "T", "W", "6" and "8"
- SS 660 bolts/nuts are in conformity with NACE MR0175/ISO 15156
- SS 316L enclosure not available for "T" shape version
- The flange rating is according to the Maximum Working Pressure.
- For rigid assembling, please specify bolting, even if P ≤ 50 bar

REMOTE SEAL TYPE GAUGE PRESSURE TRANSMITTER (RIGID OR CAPILLARY MOUNTED) : FKP..VG

1	2	3	4	5	6	7	8	9	10	11	12	13	DESCRIPTION	
F	K	P					G					Y		
														Type
														Gauge pressure with remote seal - Smart, 4-20 mA+ HART/Fuji Electric communication protocol
														Conduit connection
														1/2 - 14 NPT
														Pg 13,5
														M20 x 1,5
														G 1/2
														1/2 -14 NPT
														Pg13,5
														M20 x 1,5
														Enclosure type
														"L" shape
														"T" shape
														Diaphragm seal rating
														PN 25
														PN 20 - 150 lbs
														PN 50 - 300 lbs
														PN 40
														PN 16
														PN 100 - 600 lbs
														Measuring range
														0.08125 to 1.3 bar
														0.3125 to 5 bar
														1.875 to 30 bar
														6.25 to 100 bar
														Indicator
														None
														(*2) Analog, 0-100% linear scale
														(*2) Analog, Custom scale
														(*2) Analog, double scale
														None
														(*2) Analog, 0-100% linear scale
														(*2) Analog, Custom scale
														(*2) Analog, double scale
														Digital, 0-100% with push button
														Digital, Custom scale with push button
														Digital, 0-100% with push button
														Digital, Custom scale with push button
														Arrester
														none
														yes
														none
														yes
														Hazardous location approvals
														None
														(*1) ATEX - Flameproof
														ATEX - Intrinsic Safety
														ATEX - Increased Safety
														(*1) ATEX - Combination Flameproof and Intrinsic Safety
														(*1) cCSAus - Explosion proof
														cCSAus - Intrinsic Safety and Non Incendive
														cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive
														(*1) IECEx - Flameproof
														IECEx - Intrinsic Safety
														IECEx - Increased Safety
														(*1) IECEx - Combination Flameproof and Intrinsic Safety
														(*1) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive
														Mounting design
														Capillary
														Rigid
														Ambient temperature correction
														Transmitter and diaphragm seal assembly
														Transmitter
														Transmitter and diaphragm seal assembly
														Transmitter
														Stainless steel parts
														Tag plate
														None
														Yes
														None
														Yes
														Housing
														None
														Yes

Notes* :

- 1- Only with Digit 4 = "T", "W", "6", "8"
- 2- Except Digit 10 = "P", "Q"
- 3- SS 316L enclosure not available for "T" shape version
- 4- The flange rating is according to the Maximum Working Pressure

REMOTE SEAL TYPE ABSOLUTE PRESSURE TRANSMITTER (RIGID OR CAPILLARY MOUNTED) : FKH...VG

1	2	3	4	5	6	7	8	9	10	11	12	13	DESCRIPTION	
F	K	H					G					Y		
														Type
														Absolute pressure with remote seal - Smart, 4-20 mA+ HART/Fuji Electric communication protocol
														Conduit connection
														1/2 - 14 NPT
														Pg13,5
														M20 x 1,5
														G 1/2
														1/2 - 14 NPT
														Pg13,5
														M20 x 1,5
														Enclosure type
														"L" shape
														"T" shape
														Diaphragm seal rating
														(*4) PN 25
														PN 20 - 150 lbs
														PN 50 - 300 lbs
														PN 40
														PN 16
														PN 100 - 600 lbs
														Measuring range
														0.08125 to 1.3 bar abs
														0.,3125 to 5 bar abs
														1.875 to 30 bar abs
														Indicator
														None
														(*2) Analog, 0-100% linear scale
														(*2) Analog, Custom scale
														(*2) Analog, double scale
														None
														(*2) Analog, 0-100% linear scale
														(*2) Analog, Custom scale
														(*2) Analog, double scale
														Digital, 0-100% with push button
														Digital, Custom scale with push button
														Digital, 0-100% with push button
														Digital, Custom scale with push button
														Arrester
														None
														yes
														None
														yes
														Hazardous location approvals
														None
														(*1) ATEX - Flameproof
														ATEX - Intrinsic Safety
														ATEX - Increased Safety
														(*1) ATEX - Combination Flameproof and Intrinsic Safety
														(*1) cCSAus - Explosion proof
														cCSAus - Intrinsic Safety and Non Incendive
														(*1) cCSAus -Combination Explosion proof, Intrinsic Safety and Non Incendive
														(*1) IECEx - Flameproof
														IECEX - Intrinsic Safety
														IECEX - Increased Safety
														(*1) IECEx - Combination Flameproof and Intrinsic Safety
														(*1) IECEx - ATEX - cCSAus - Explosion/flameproof, Intrinsic Safety and Non Incendive
														Mounting design
														Capillary
														Rigid
														Ambiant temperature correction
														Transmitter and diaphragm seal assembly
														Transmitter
														Transmitter and diaphragm seal assembly
														Transmitter
														Stainless Steel parts
														Tag plate
														None
														Yes
														None
														Yes

Notes* :

- 1- Only with Digit 4 = "T", "W", "6", "8"
- 2- Except Digit 10 = "P", "Q"
- 3- SS 316L enclosure not available for "T" shape version
- 4- The flange rating is according to the Maximum Working Pressure

DIAPHRAGM SEAL(S)

Fuji Electric seal diaphragms are dedicated to accurately measure level and density on open and closed tanks, flow and line pressure in pipes in heavy process conditions.

The use of remote seal diaphragms avoids the measuring cell to be directly in contact with the process conditions.

The various diaphragm architectures and the welded seal construction provide to the Fuji Electric remote seal diaphragm offer an excellent reliability in harsh processing conditions such as high static pressure, temperature or corrosiveness as well as viscous, crystallizable or abrasive process.

FEATURES

1- Construction

Connection of the remote seal to the measuring cell diaphragms can be done either by a rigid (direct) or capillary architectures.

The full welded Fuji Electric design allows a free of gasket path between the remote seal and the differential, gauge or absolute measuring cell of the FCX-All V5 pressure transmitters.

Depending the nature of the process, specific filling fluids are available to ensure the optimal transmission of the process pressure to the measuring cell

2- Operating principle

The pressure is applied on the remote seal diaphragm and transferred by the filling fluid through the capillary path to the measuring cell of the pressure transmitter.

3- Wide variety of materials selection

Depending the process conditions, wetted parts and filling fluids can be selected thanks to the model code definitions.

Wetted parts: AISI 316L, Tantalum, Hastelloy, Monel, Titanium, Zirconium, AISI 316L with Gold or PFA coating.

Non wetted parts: AISI 316L

Filling fluids: standard silicone, fluorinated, sanitary, high temperature, vacuum specific oils.

For specific process conditions, please consult Fuji Electric.

4- Diaphragm seal types

According to the mounting and operating conditions different seal types can be useful :

Flush mounting design from DN40 to DN100

Seals with extensions (50 to 200 mm).

Flanged, screwed or welded neck adapters

Seals for sanitary applications according DIN, SMS or Tri-Clamp standards.

For specific seals, please consult Fuji Electric.



SPECIFICATIONS

FUNCTIONAL SPECIFICATIONS

Remote seal diaphragm assembling :

The remote seal can be assembled on the transmitter either by a direct (rigid) connection (as for level measurement at the bottom of a tank) or by capillary (distant measuring point, high temperature process).

The rigid assembling can be either "Long design" (in line) or "Short design" (90°) as shown in the outline dimensions drawings.

	Rigid mounting	Capillary mounting
FKB	Short or long design	HP side
FKM	Short or long design	HP side
FKD	See datasheet of level transmitter (FKE)	HP and LP side HP side LP side

Capillary tube specifications :

Standard capillary lengths :

1,5 / 3 / 6 m (other upon request)

Inside diameter :

1 mm standard

2 mm for vacuum service, high process temperature applications, short response time requirements

Smallest bending radius of the capillary :

100 mm

Capillary tube sheathing possibilities :

Temperature limit :

PVC sleeve : -10 à 80°C

Stainless steel sleeve : -40 à 350°C

Process connection possibilities :

The remote seal can be :

- For flush mounting design

- With extension mounting

- With mounting adapters (flanged, screwed or welded neck).

The mounting adapter is dedicated to either adapt the remote seal to a specific process connection or to increase the sensibility of the transmitter with special process conditions.

Temperature limits :

Ambiant temperature :
 -40 to 85°C for transmitter
 Process temperature :
 -40 to 150°C for rigid mounting,
 -10 to 350°C for capillary design, and high temperature process conditions.

Pressure limits :

Working pressure :
 Limited by the smallest value between the nominal flange rating of the seal diaphragm and the maximum working pressure of the transmitter
 Vacuum limit :
 Depends of the limit of the measuring cell and the filling fluid of the remote seal.
 For a differential or gauge pressure transmitter the lowest vacuum limit is 20 Torr or 27 mbar abs.
 Only the absolute pressure transmitter can be used till absolute zero (FKM).
 For process service < 20 Torr, please consult Fuji Electric.

PERFORMANCE SPECIFICATIONS

To evaluate the global performances, both the transmitter and the remote seals diaphragm performances must be considered under the reference conditions : standard Silicone oil, SS 316L seal diaphragm, 4-20 mA output in linear mode.

Accuracy :

Assembling of 1 or 2 diaphragm seals on a transmitter increases the accuracy error at reference conditions by 0,1% of the span.

Ambiant temperature effect :

*Effect when only the transmitter alone is corrected.
 (See digit 11: code G, S, T of the code symbols FKB and FKM ,code G, H of the code symbols FKD).
 (See digit 11 code G, S of the code symbols FKP and FKH).*

Transmitters Seals	Effect (mbar/10°C)			
	FKB/FKM & FKP/FKH - Gauge/Absolute pressure	Capillary (m)	FKD - Differential pressure	Capillary (m)
DN50 / 2" - SS diaphragm	2,03	1,5	0,48	0,32
DN80 / 3" - SS diaphragm	0,11	0,08	0,04	0,03
DN80 / 3"	0,22	0,2	0,05	0,07
Other diaphragm materials				
DN100 / 4"	0,04	0,03	0,02	0,01
Adaptater	0,11	0,08	0,04	0,03
Clamp 2"	2,06			
DN 50 ou 2" (SMS or DIN 11851)	2,85			
No dead volume	5,16			
G 1"-1/2	5,16			
G 2"	2,03			

Note : the indicated values are in mbar/10°C for capillary length of 1m and internal capillary tube ø of 1 mm

Effect when both the transmitter and the seal assembly are corrected. (See digit 11: codes B,C,L,M of the codification FKB/FKD/FKM) and codes B, L of the codification FKP/FKH)

The correction of the zero drift can be done at factory level on the complete system - Transmitter and remote seal(s) - by an additional temperature correction operation.

A thermal isolation or a heating of the capillaries minimises the ambient temperature effect.

Process temperature effect : (mbar/10°C)

Transmitters Seals	Effect (mbar/10°C)	
	FKB/FKM & FKP/FKH Gauge/ absolute pressure	FKD - Differential pressure
DN50 / 2"SS diaphragm	1,24	0,5
DN80 / 3"SS diaphragm	0,17	0,09
DN80 / 3"	0,73	0,22
Other diaph. materials		
DN100 / 4"	0,08	0,05
Adaptater	0,17	0,09
Clamp 2"	2,61	
DN 50 ou 2" (SMS or DIN 11851)	4,22	
No dead volume	5,16	
G 1"-1/2	1,42	
G 2"	1,24	

Static pressure effect for ΔP transmitter with stainless steel diaphragms (FKD transmitter with DN80 and DN100 seals) :

Zero shift :
 ± 0,2% of URL for flange rating, up to 40 bar or 300 lbs

Response time : (mean values)

Oil filling	Code digit 7	Response time	
		0 to 320 mbar	0 to 1.3 bar
Std silicone oil	Y, G	0,15	0,037
Fluorinated oil	W,A,D	0,17	0,04
Oil for vacuum or high temperature	U, X	0,25	0,065

The indicated values are in seconds per meter of capillary length with internal tube diameter Ø 1 mm.
 The indicated response time is based on a pressure change of 0 to 100% of the calibrated span at reference temperature of 20°C.
 The indicated values do not include the response time of the transmitter.

Filling fluid of the diaphragm seals :

Digit 7	Designation	Temperature resistance (°C)		Density (25°C)
		P abs ≥ 1 bar	P abs < 1 bar	
Y	Silicone oil	-40 to 180	-40 to 120	0,95
W	Fluorinated oil	-20 to 200	-20 to 120	1,84
F	Samitary filling fluid	-10 to 250	-10 to 120	0,94
V	Silicone oil		20 to 200	1,07
U	Silicone oil	0 to 300	20 to 200	1,07
X	Silicone oil	-10 to 350	20 to 200	1,09

The indicated values and limits are indicated for the most common applications (standard filling fluids).
 Please consult Fuji Electric for special applications indicating your temperature, pressure and vacuum conditions (vacuum and temperature can occur together).
 Other filling fluids can be used for your applications.

CODE SYMBOLS - REMOTE SEALS S - FKB, FKD, FKM, FKP & FKH TRANSMITTERS

1	2	3	4	5	6	7	8	DESCRIPTION
S								Remote seal diaphragms
								Flange / Capillary connection
A								Axial
R								Radial - Not possible with rigid assembling design (digit 6 = "R")
W								Wafer type - Not possible with rigid assembling design (digit 6 = "R")
								(*1) Flanges RF (flange size and rating)
4								ANSI-150 lbs 3" / ISO PN20 DN80
5								ANSI-150 lbs 4" / ISO PN20 DN100
6								ANSI-300 lbs 3" / ISO PN50 DN80
7								ANSI-300 lbs 4" / ISO PN50 DN100
8								DIN PN40 DN80
9								DIN PN16 DN100
H								(*2) ANSI-150 lbs 2" / ISO PN20 DN50
J								(*2) ANSI-300 lbs 2" / ISO PN50 DN50
G								(*2) DIN PN40 DN50
K								(*11) G 2" - Screwed seal
L								(*11) G 1 1/2 - Screwed seal
U								PN25 DN50 - coupling nuts DIN 11851 Digit 4 = "V" only
V								PN40 DN50 - coupling nuts SMS Digit 4 = "V" only
W								PN40 DN50 - seal only Clamp Digit 4 = "V" only
X								No dead volume Sanitary Digit 4 = "V" only
A								(*3) Flange adapter PN40 DN25 Digit 4 = "V" only - others upon request
B								(*3) Flange adapter ISO PN20 DN25 (1"-150 ANSI) Digit 4 = "V" only - others upon request
C								(*3) Flange adapter ISO PN50 DN25 (1"-300 ANSI) Digit 4 = "V" only - others upon request
D								(*3) Flange adapter PN40 DN40 Digit 4 = "V" only - others upon request
E								(*3) Flange adapter ISO PN20 DN40 (1 1/2 - 150 ANSI) Digit 4 = "V" only - others upon request
F								(*3) Flange adapter ISO PN50 DN40 (1 1/2 - 300 ANSI) Digit 4 = "V" only - others upon request
S								(*3) Screwed 1/2 NPTE Digit 4 = "V" only - others upon request
T								(*3) To be welded (2" 1/2 pipe) Digit 4 = "V" only - others upon request
								Seal diaphragm design
								Diaphragm Seal land surface Flange
V								(*4) SS 316L SS 316L SS 316L
H								Hastelloy-C Hastelloy-C
B								Monel Monel
T								Tantalum Tantalum
P								(*9) Titanium Titanium
R								(*9) Zirconium Zirconium
C								SS 316L + gold coating SS 316L
F								(*5) SS 316L + PFA lining SS 316L + PFA lining
								Seal diaphragm design
Y								Flush mounting
A								(*6) Diaphragm extension 50 mm Digit 4 = "V"
B								(*6) Diaphragm extension 100 mm Digit 4 = "V"
C								(*6) Diaphragm extension 150 mm Digit 4 = "V"
D								(*6) Diaphragm extension 200 mm Digit 4 = "V"
E								(*6) Diaphragm extension 50 mm Digit 4 = "H"
F								(*6) Diaphragm extension 100 mm Digit 4 = "H"
G								(*6) Diaphragm extension 150 mm Digit 4 = "H"
H								(*6) Diaphragm extension 200 mm Digit 4 = "H"
J								(*6) Diaphragm extension 50 mm Digit 4 = "B"
K								(*6) Diaphragm extension 100 mm Digit 4 = "B"
L								(*6) Diaphragm extension 150 mm Digit 4 = "B"
M								(*6) Diaphragm extension 200 mm Digit 4 = "B"
P								(*6) Diaphragm extension 50 mm Digit 4 = "T"
R								(*6) Diaphragm extension 100 mm Digit 4 = "T"
S								(*6) Diaphragm extension 150 mm Digit 4 = "T"
T								(*6) Diaphragm extension 200 mm Digit 4 = "T"
								Remote seal assembling characteristics
								Mounting assembly Length Protection
A								Capillary
B							1,5 m	
C							3 m	
D							6 m	
G							Upon request	Stainless steel sleeve
H							1,5 m	
K							3 m	
L							6 m	
R							Upon request	
S								Rigid assembly for FKB, FKD and FKM - Not possible with digit 2 = "R", "W" - Maximum process temperature : 150°C
								Rigid assembly for FKP and FKH - Not possible with digit 2 = "R", "W" - Maximum process temperature : 150°C
								Specific applications and filling fluids for the remote seal
								Treatment Filling fluids
W								None (standard) Silicone oil
F								Fluorinated oil
D								Sanitary fill fluid
G								Fluorinated oil
A								Silicone oil
N								Fluorinated oil - Digit 4 = "V" only
V								Silicone oil
U								(*8) Vacuum service - maximum T° 200°C
X								(*8) Very high temperature (0 to 300°C) - No vacuum
								(*8) Very high temperature (20 to 350°C) - No vacuum
								Special options
								(*10) Special, no code available

Notes* :

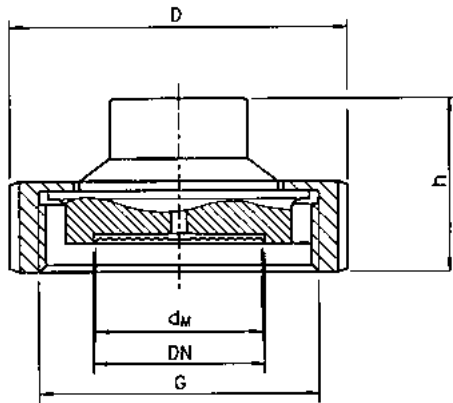
- Standard seal land surface finishing (stock finish). Other machining (recess, groove...): please consult Fuji Electric. For material codes "H", "B", "T", "P", "R", "F" : smooth finishing
- Only available for P > 5 bar. Please consult Fuji Electric regarding the process conditions
- Only for axial seal diaphragm connection - No extension possible
- SS 316L for DN50, 80, 100 and flange adapter
- Not possible with digit 7 = "V", "U", "X"
- All wetted parts in the same material (diaphragm, extension and seal land surface). Available for digit 3 = 4, 5, 6, 7, 8, 9, H, J, G. Other remote seal on demand
- Vacuum service and high temperature > 120 °C : internal capillary diameter = 2 mm
- Please consult Fuji Electric regarding the process conditions (minimum pressure, maximum temperature)
- Maximum process temperature: 150 °C
- When no code can be found in the current model code, place "*" in the corresponding digit code as well as in the 16th digit.
- Only for FKP, FKH and rigid assembly. P > 1.3 bar

OUTLINE DIMENSIONS OF SANITARY DIAPHRAGM SEALS (units : mm)

The seals for the sanitary and pharmaceutical applications are available according DIN, SMS and Tri-Clamp standards

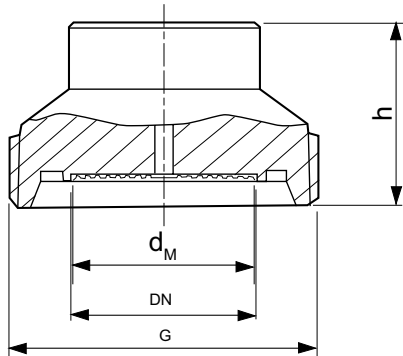
SEALS ACCORDING DIN 11851 ET SMS

2 differents design exist for DIN 11851 and SMS :



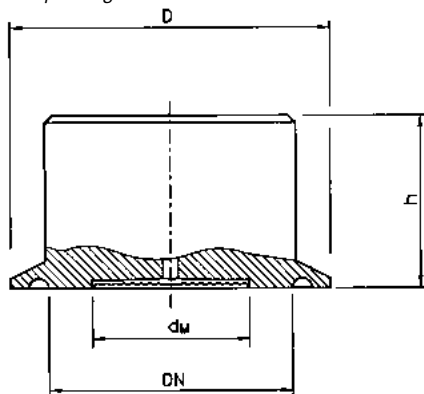
DIN 11851					
DN	PN (Max)	D	h	d _M	G
25	40	63	36	25	Rd 52 x 1/6
32	40	70	36	32	Rd 58 x 1/6
40	40	78	36	40	Rd 65 x 1/6
50	40	112	36	52	Rd 78 x 1/6
65	40	112	36	65	Rd 95 x 1/6
80	40	127	36	76	Rd 110 x 1/4
SMS					
38	40	74	38	40	Rd 48 x 1/6
51	40	84	38	52	Rd 60 x 1/6
63,5	40	100	38	65	Rd 85 x 1/6
76	40	114	38	76	Rd 98 x 1/6

Male thread design



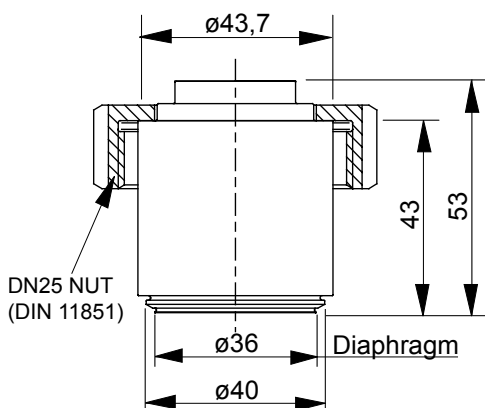
SMS					
DN	PN (Max)	D	h	d _M	G
25	40	51	38	25	Rd 40 x 1/6
32	40	60	38	32	Rd 48 x 1/6
38	40	74	38	40	Rd 60 x 1/6
51	40	84	38	52	Rd 70 x 1/6
63.5	40	100	38	65	Rd 85 x 1/6
76	40	114	38	76	Rd 98 x 1/4

Tri Clamp design

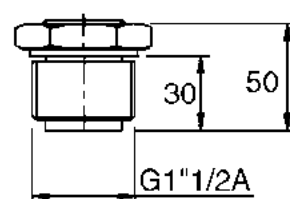


DN	PN (Max)	D	h	d _M
1"1/2	40	50	35	32
2"	40	64	35	40
2"1/2	40	77,5	35	50
3"	40	91	35	65

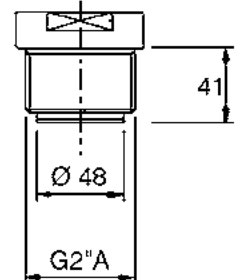
Dead volume seal



Screwed G 1"1/2 A

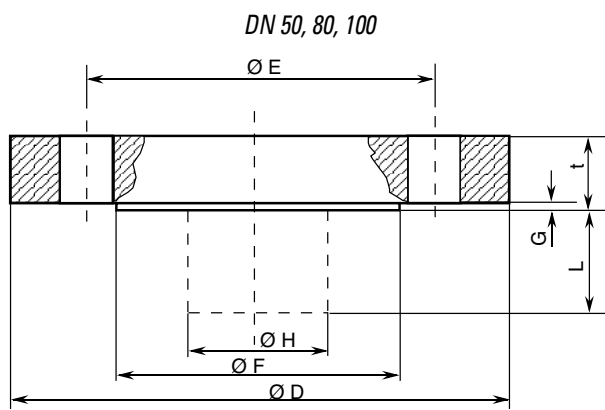


Screwed G 2" A

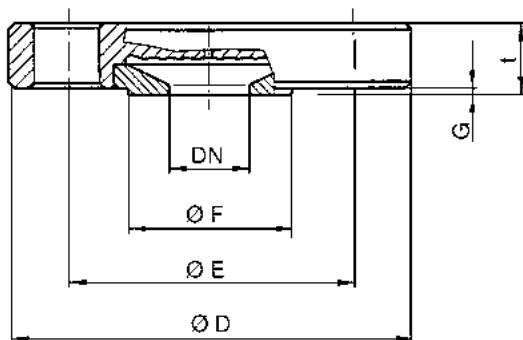


OUTLINE DIMENSIONS OF THE STANDARD DIAPHRAGM SEALS (units : mm)

FLUSH AND EXTENSION MOUNTING



DN ≤ 25 or 1"

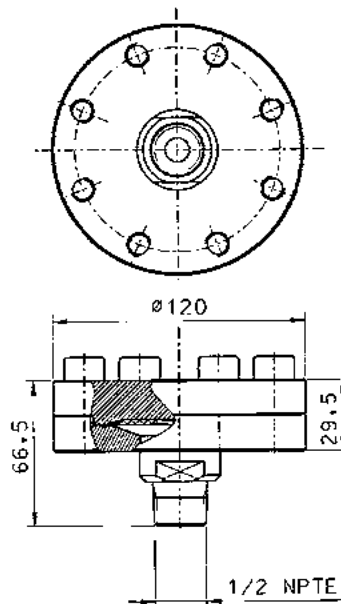
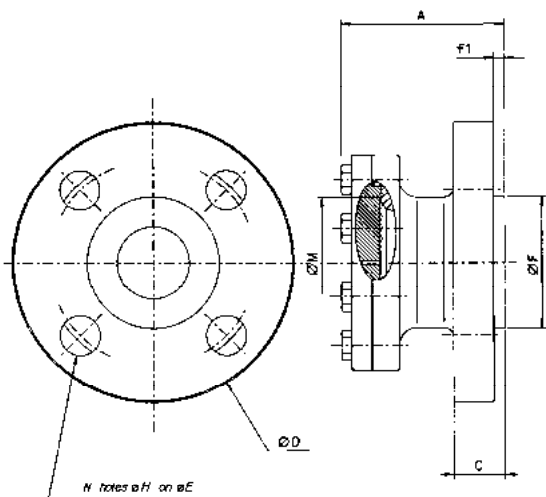


DIN / ISO		ANSI		ØD	ØE	ØF	G	ØH	t	N x Øh
PN	DN	NP	NW							
40	15			95	65	45	2		22	4 x 14
40	20			105	75	58	2		22	4 x 14
40	25			115	85	68	2		22	4 x 14
40	50			165	125	102	3	48	20	4 x 18
40	80			200	160	138	3	73	20	8 x 18
16	100			220	180	158	3	96	20	8 x 18
20	15	150 lbs	1/2"	95	60,5	35	2		22	4 x 16
20	20	150 lbs	3/4"	100	70	43	2		22	4 x 16
20	25	150 lbs	1"	110	79,5	51	2		22	4 x 16
50	15	300 lbs	1/2"	95	66,5	35	2		22	4 x 16
50	20	300 lbs	3/4"	120	82,5	43	2		22	4 x 20
50	25	300 lbs	1"	125	89	51	2		22	4 x 20
20	50	150 lbs	2"	150	120,5	92	1,6	48	20	4 x 20
20	80	150 lbs	3"	190	152,5	127	1,6	73	24	4 x 20
20	100	150 lbs	4"	230	190,5	158	1,6	96	24	8 x 20
50	50	300 lbs	2"	165	127	92	1,6	48	22,5	8 x 20
50	80	300 lbs	3"	210	168,5	127	1,6	73	29	8 x 22
50	100	300 lbs	4"	255	200	158	1,6	96	32	8 x 22

OUTLINE DIMENSIONS OF DIAPHRAGM SEALS WITH ADAPTORS (units : mm)

Flange adaptor

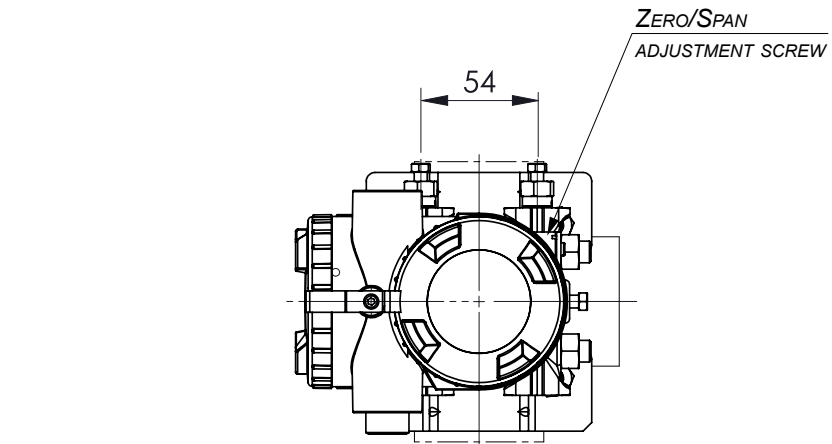
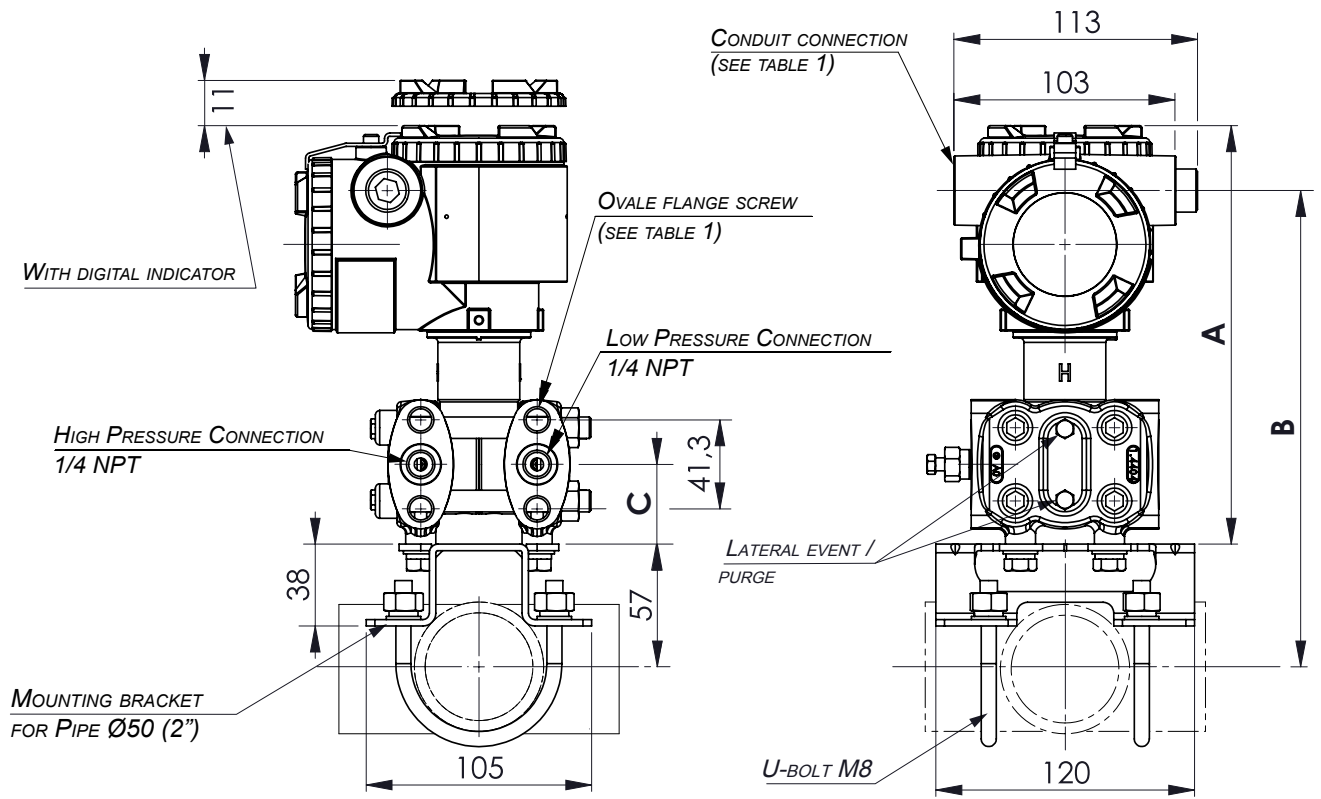
Screwed adaptor



DIN		ANSI		ØD	ØE	N	ØH	ØF	Cmin	f1	A	ØM
PN	DN	Pe	DN									
40	25			115	85	4	14	68	18	2	83	72,2
20	25	150	1"	108	79,5	4	15,8	50,8	16	1,6	81	72,2
50	25	300	1"	124	89	4	19	50,8	17,5	1,6	86	72,2
40	40			150	110	4	18	88	18	3	85	72,2
20	40	150	1 1/2"	127	98,4	4	15,8	73	18	16	85	72,2
50	40	300	1 1/2"	156	114,3	4	22,2	73	21	1,6	91	72,2

OUTLINE DIAGRAM OF EACH STANDARD MODEL (units : mm)

DRAWING 1- DIFFERENTIAL PRESSURE / FLOW TRANSMITTER : FKC...G



MODEL	DIMENSIONS		
	A	B	C
FKC□11 FKC□22	198,5	225,5	38,5
FKC□33 FKC□35 FKC□36	194	194	37
FKC□38 FKC□43 FKC□45 FKC□46 FKC□48	198,5	225,5	38,5

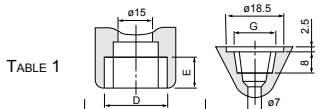


TABLE 1

Code X=4	CONDUIT CONNECTION		OVALE FLANGE SCREW
	D	E	
R	M20x1.5	16	7/16-20 UNF
T	1/2-14NPT	16	7/16-20 UNF
V	Pg13.5	10,5	M10
W	M20x1.5	16	M10
X	Pg13.5	10,5	7/16-20 UNF

WEIGHT :
ADD :

- 3,5 KG (WITHOUT OPTION)
- 0,3 KG FOR INDICATOR OPTION
- 2 KG FOR STAINLESS STEEL HOUSING OPTION
- 0,5 KG FOR MOUNTING BRACKET

MODEL	SPAN LIMIT	
	Min.	Max.
FKC□□1	0,1 kPa (1 mbar)	1kPa (10 mbar)
FKC□□2	0,1 kPa (1 mbar)	6kPa (60 mbar)
FKC□□3	0,32 kPa (3,2 mbar)	32 kPa (320 mbar)
FKC□□5	1,3 kPa (13 mbar)	130 kPa (1,3 bar)
FKC□□6	5 kPa (50 mbar)	500 kPa (5 bar)
FKC□□8	30 kPa (300 mbar)	3 MPa (30 bar)

X₁ X₂ X₃ X₄ X₅ X₆ X₇ X₈- X₉ X₁₀X₁₁X₁₂X₁₃- X₁₄X₁₅- X₁₆
 F K C □ □ □ □ G - □ □ □ □ □ - □ □ - □

DRAWING 2- GAUGE PRESSURE TRANSMITTER : FKG...G

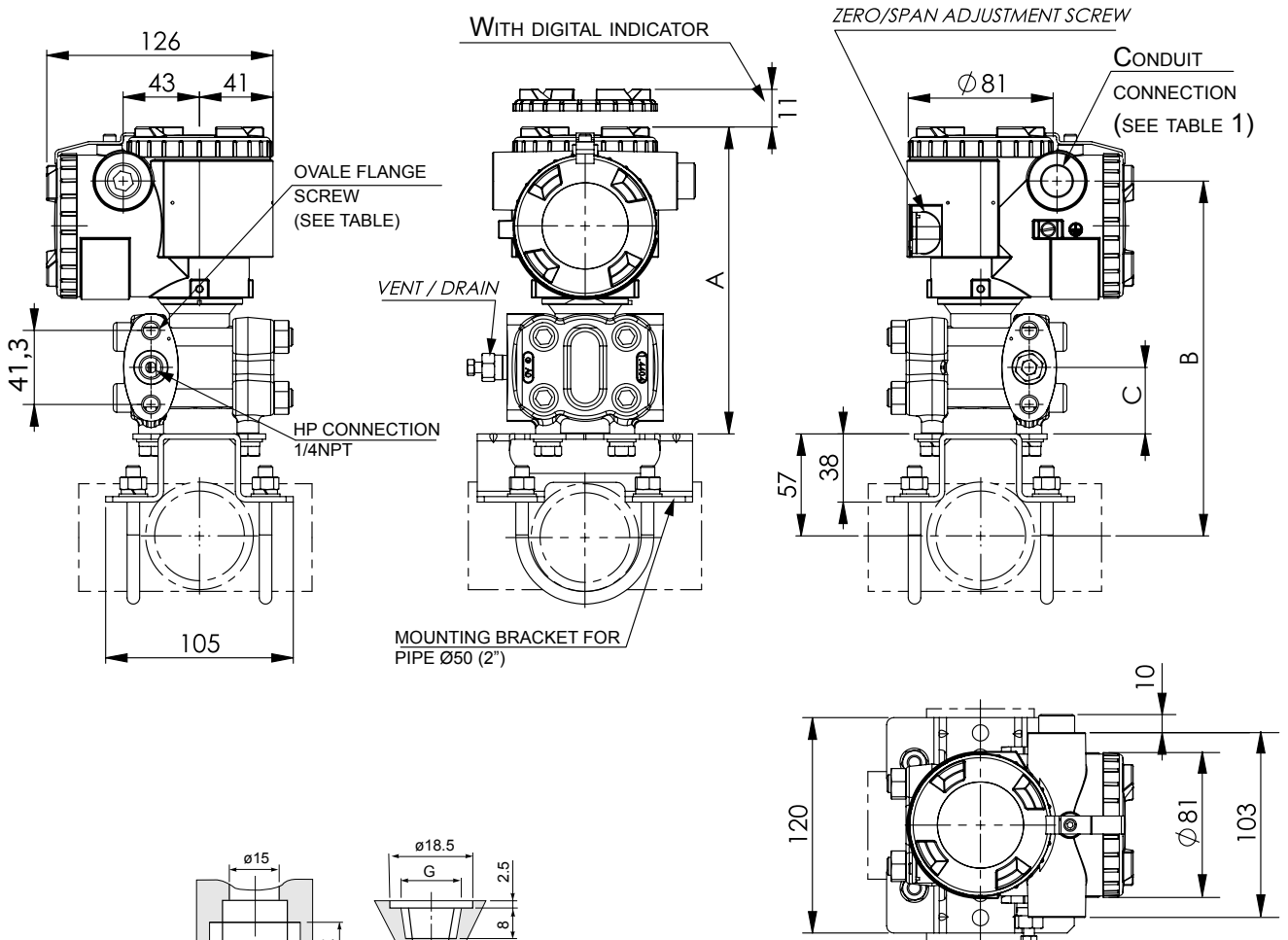


TABLE 1

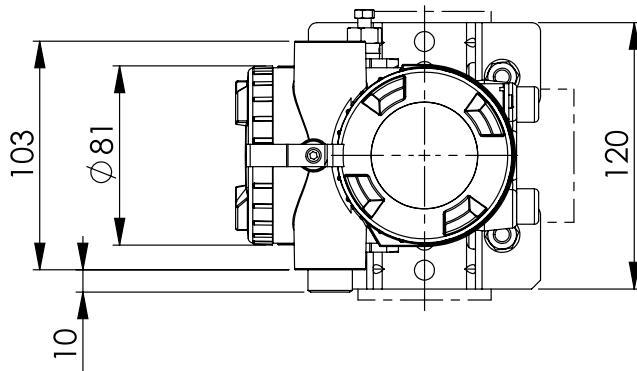
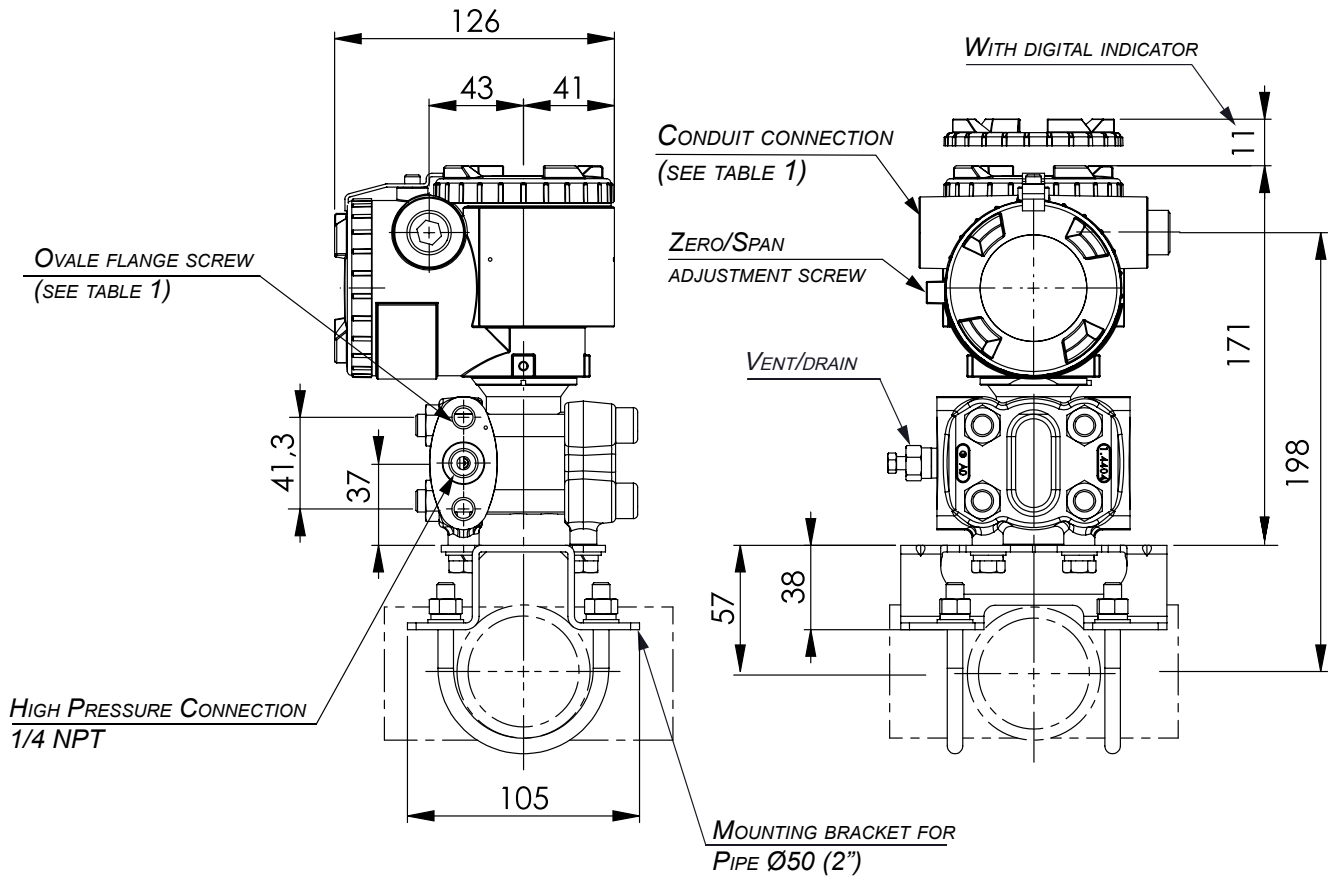
CODE X=4	CONDUIT CONNECTION		OVAL FLANGE SCREW
	D	E	G
R	M20x1.5	16	7/16-20 UNF
T	1/2-14NPT	16	7/16-20 UNF
V	Pg13.5	10,5	M10
W	M20x1.5	16	M10
X	Pg13.5	10,5	7/16-20 UNF

DIMENSIONS			
MODEL	A	B	C
FKG□01	171	198	37
FKG□02			
FKG□03			
FKG□04			
FKG□05	172,5	199,5	38,5

- WEIGHT : - 3,5 KG (WITHOUT OPTION)
 ADD : - 0,3 KG FOR INDICATOR OPTION
 - 2 KG FOR STAINLESS STEEL HOUSING OPTION
 - 0,5 KG FOR MOUNTING BRACKET

X1 X2 X3 X4 X5 X6 X7 X8- X9 X10 X11 X12 X13- X14 X15- X16 F K G □0 □□ 5- □□ □□ □□ □□ □□ □□ □□	MODEL	SPAN LIMIT	
		Min.	Max.
FKG□01	1,3 KPa (13 mbar)	130 KPa (1300 mbar)	
FKG□02	5 KPa (50 mbar)	500 KPa (5 bar)	
FKG□03	30 KPa (0,3 bar)	3 MPa (30 bar)	
FKG□04	100 KPa (1 bar)	10 MPa (100 bar)	
FKG□05	500 KPa (5 bar)	50 MPa (500 bar)	

DRAWING 3- ABSOLUTE PRESSURE TRANSMITTER : FKA...G



- WEIGHT : - 3,5 KG (WITHOUT OPTION)
 ADD : - 0,3 KG FOR INDICATOR OPTION
 - 2 KG FOR STAINLESS STEEL HOUSING OPTION
 - 0,5 KG FOR MOUNTING BRACKET

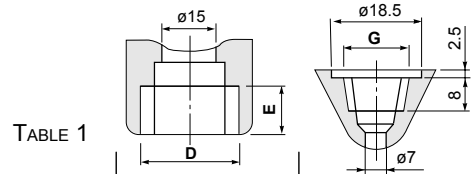
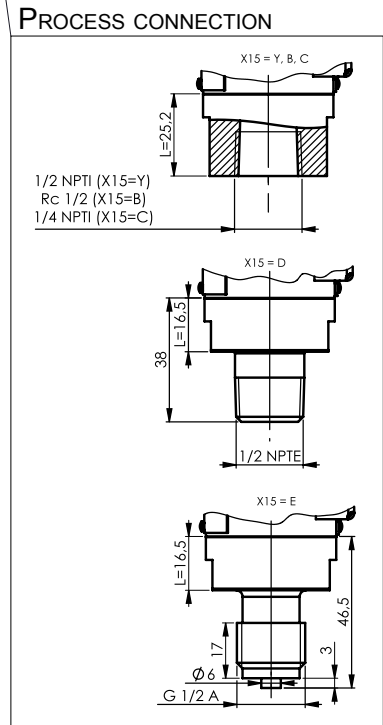
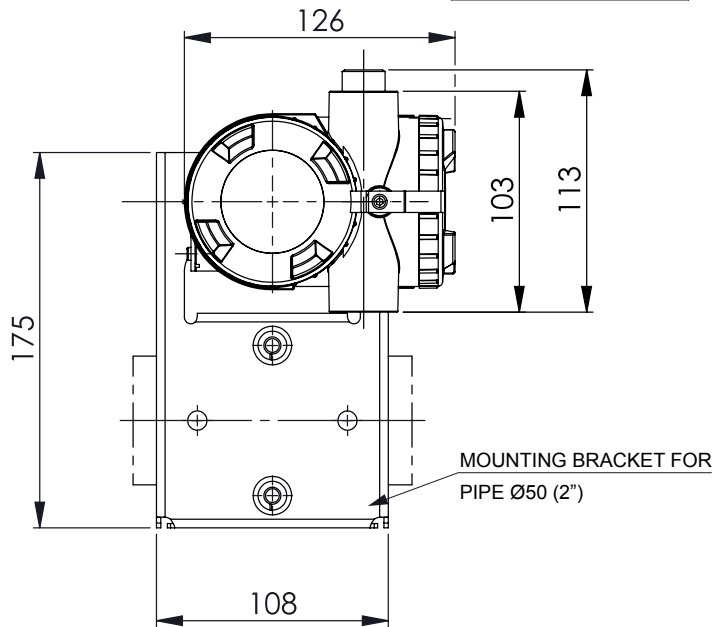
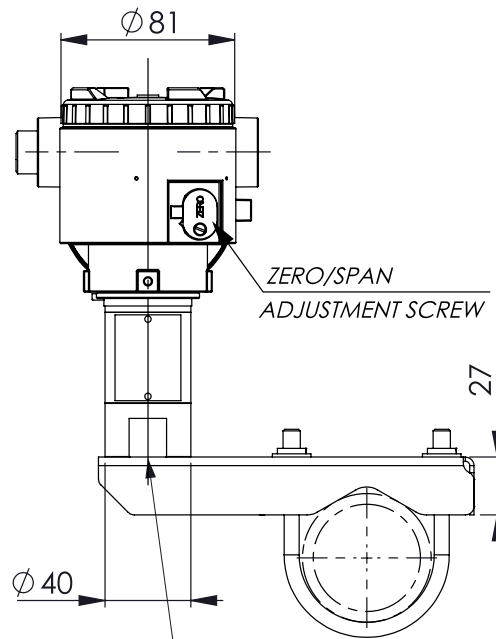
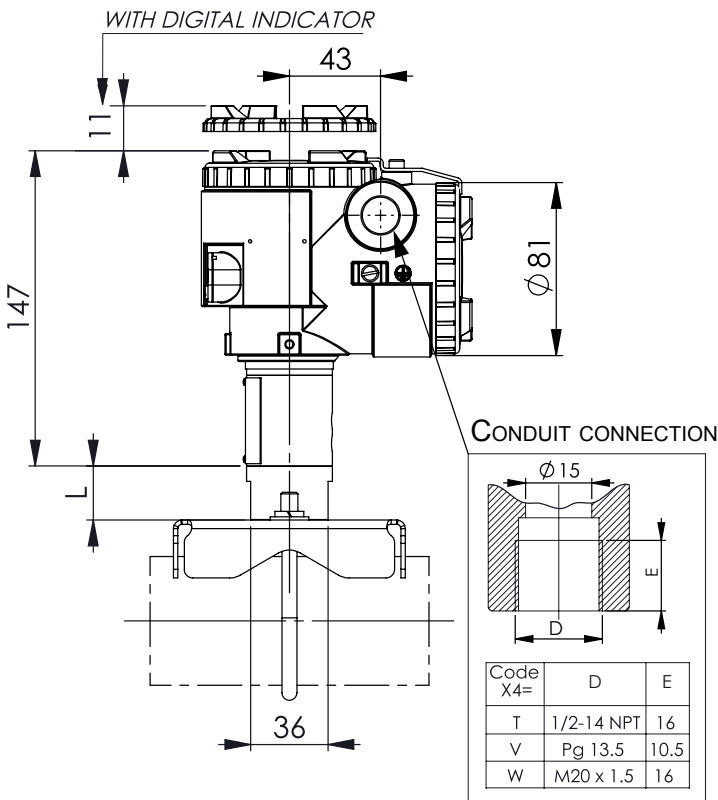


TABLE 1

CODE X=4	CONDUIT CONNECTION		OVAL FLANGE SCREW
	D	E	G
R	M20x1.5	16	7/16-20 UNF
T	1/2-14NPT	16	7/16-20 UNF
V	Pg13.5	10,5	M10
W	M20x1.5	16	M10
X	Pg13.5	10,5	7/16-20 UNF

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ - X ₁₄ X ₁₅ - X ₁₆ F K A □□□□ 5-□□□□□□ - □□□□	SPAN	SPAN LIMIT	
		Min.	Max.
FKA□01	1,6 KPa (16 mbar)	16 KPa (160 mbar)	
FKA□02	1,6 KPa (16 mbar)	130 KPa (1,3 bar)	
FKA□03	5 KPa (50 mbar)	500 KPa (5 bar)	
FKA□04	30 KPa (300 mbar)	3 MPa (30 bar)	
FKA□05	100 KPa (1 bar)	10 MPa (100 bar)	

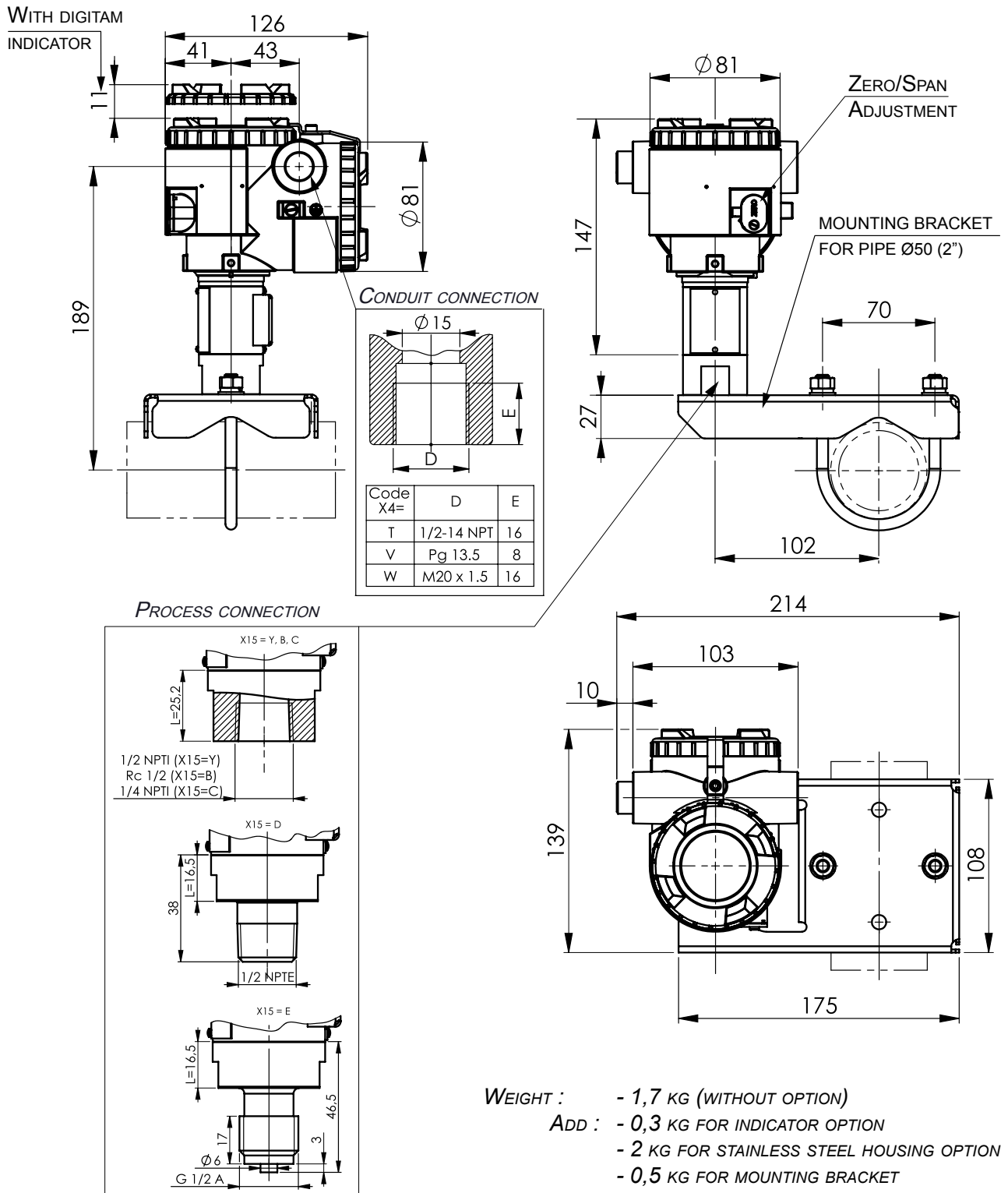
DRAWING 4- DIRECT MOUNT TYPE GAUGE PRESSURE TRANSMITTER : FKP...G



- WEIGHT :** - 1,7 KG (WITHOUT OPTION)
ADD : - 0,3 KG FOR INDICATOR OPTION
 - 2 KG FOR STAINLESS STEEL HOUSING OPTION
 - 0,5 KG FOR MOUNTING BRACKET

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ - X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ - X ₁₄ X ₁₅ F K P □ 0 □ V G- □ □ □ □ □ - 0 □	SPAN	SPAN LIMIT	
		Min.	Max.
FKP□01	8,125 kPa (0,08125 bar)	130 kPa (1,3 bar)	
FKP□02	31,25 kPa (0,3125 bar)	500 kPa (5 bar)	
FKP□03	187,5 kPa (1,875 bar)	3000 kPa (30 bar)	
FKP□04	625 kPa (6,25 bar)	10000 kPa (100 bar)	

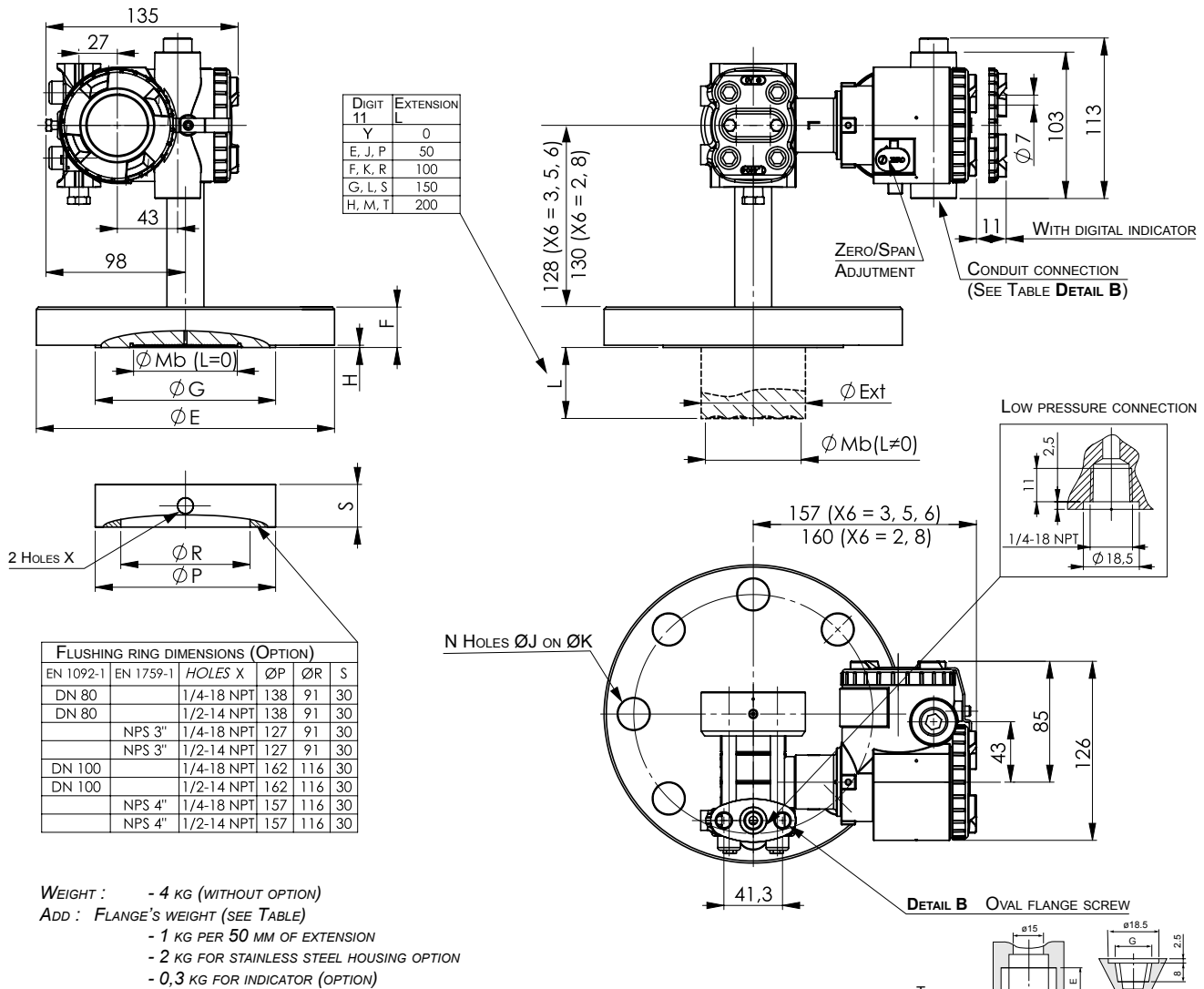
DRAWING 5- DIRECT MOUNT TYPE ABSOLUTE PRESSURE TRANSMITTER : FKH...G



X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ - X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ - X ₁₄ X ₁₅ F K H <input type="checkbox"/> 0 <input type="checkbox"/> <input type="checkbox"/> G <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> - 0 <input type="checkbox"/>	SPAN	SPAN LIMIT	
		Min.	Max.
FKH <input type="checkbox"/> 02	8,125 KPa (81,25 mbar)	130 KPa (1300 mbar)	
FKH <input type="checkbox"/> 03	31,25 KPa (0,3125 mbar)	500 KPa (5 bar)	
FKH <input type="checkbox"/> 04	187,5 KPa (1,875 mbar)	3000 KPa (30 bar)	

DRAWING 6- LEVEL TRANSMITTER : FKE...VG

SHORT DESIGN MOUNTING



FLUSHING RING DIMENSIONS (OPTION)					
EN 1092-1	EN 1759-1	HOLES X	ØP	ØR	S
DN 80		1/4-18 NPT	138	91	30
DN 80		1/2-14 NPT	138	91	30
	NPS 3"	1/4-18 NPT	127	91	30
	NPS 3"	1/2-14 NPT	127	91	30
DN 100		1/4-18 NPT	162	116	30
DN 100		1/2-14 NPT	162	116	30
	NPS 4"	1/4-18 NPT	157	116	30
	NPS 4"	1/2-14 NPT	157	116	30

WEIGHT : - 4 KG (WITHOUT OPTION)
ADD : FLANGE'S WEIGHT (SEE TABLE)
 - 1 KG PER 50 MM OF EXTENSION
 - 2 KG FOR STAINLESS STEEL HOUSING OPTION
 - 0,3 KG FOR INDICATOR (OPTION)

FLANGES DIMENSIONS ACCORDING EN 1092-1 & EN 1759-1										DIAPHRAGM & EXTENSION	
EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	Weight (kg)	L=0 (X11=Y) ØMb	L#0 ØExt(ØMb)	
DN50 PN40		165	20	102	2	4 x 18	125	3,3	59	48,3 (47)	
	2" CLASS 150	152	21	92	1,6	4 x 19	120,6	2,7	59	48,3 (47)	
	2" CLASS 300	165	22,5	92	1,6	8 x 19	127	3,7	59	48,3 (47)	
DN80 PN40		200	24	138	2	8 x 18	160	5,8	89	76 (72)	
	3" CLASS 150	190	24	127	1,6	4 x 19	152,4	5,3	89	76 (72)	
	3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	7,8	89	76 (72)	
DN100 PN16		220	22	158	2	8 x 18	180	5,9	89	94 (89)	
	4" CLASS 150	229	24	157	1,6	8 x 19	190,5	7,7	89	94 (89)	
	4" CLASS 300	254	32	157	1,6	8 x 22,2	200	12,7	89	94 (89)	

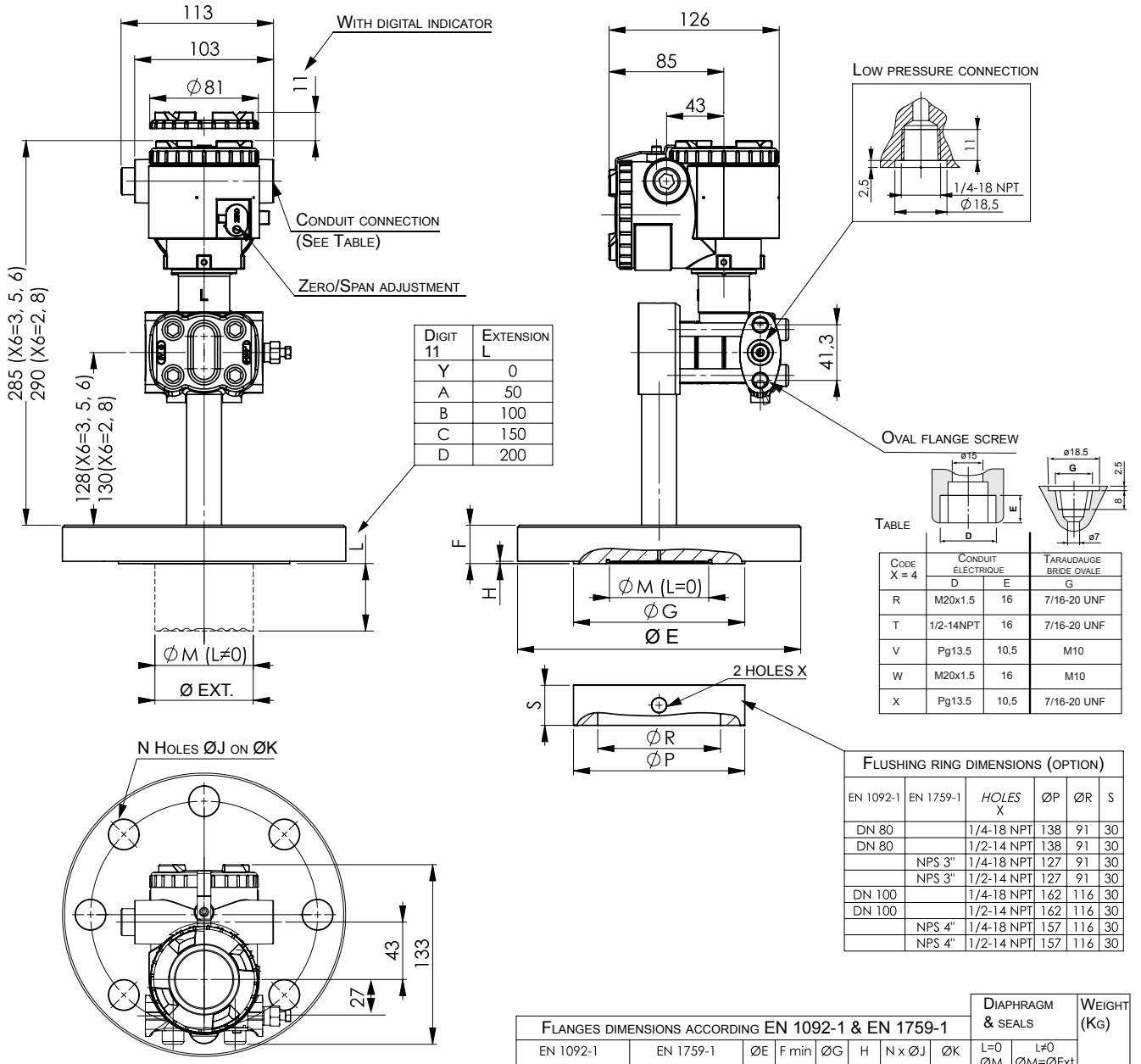
CODE X=4	CONDUIT CONNECTION		OVAL FLANGE SCREW
	D	E	G
R	M20x1.5	16	7/16-20 UNF
T	1/2-14NPT	16	7/16-20 UNF
V	Pg13.5	10,5	M10
W	M20x1.5	16	M10
X	Pg13.5	10,5	7/16-20 UNF

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ - X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ - X ₁₄ X ₁₅ F K E □ □ □ □ G - □ □ □ □ □ □ - □ □ □	SPAN	SPAN LIMIT	
		Min.	Max.
FKE □ □ □ 2		0,1 KPa (1 mbar)	6 KPa (60 mbar)
FKE □ □ □ 3		0,32 KPa (3,2 mbar)	32 KPa (320 mbar)
FKE □ □ □ 5		1,3 KPa (13 mbar)	130 KPa (1,3 bar)
FKE □ □ □ 6		5 KPa (50 mbar)	500 KPa (5 bar)
FKE □ □ □ 8		30 KPa (300 mbar)	3 MPa (30 bar)

X7 = H, M, T, P, R
 X11 = Y, E, F, G, H, J, K, L, M, P, R, S, T

DRAWING 7- LEVEL TRANSMITTER : FKE...VG

LONG DESIGN MOUNTING



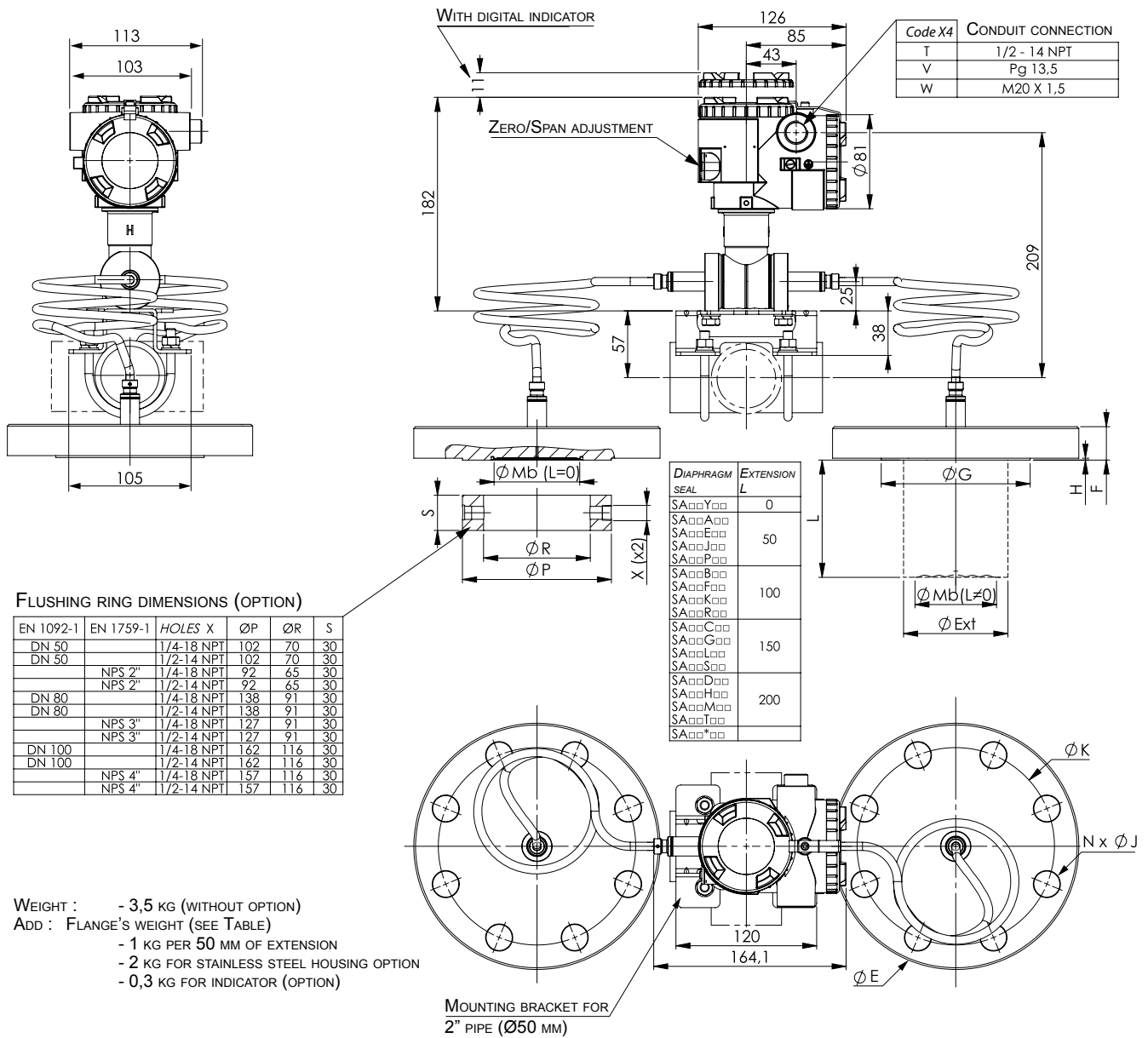
WEIGHT : - 4 KG (WITHOUT OPTION)
 ADD : FLANGE'S WEIGHT (SEE TABLE)
 - 1 KG PER 50 MM OF EXTENSION
 - 2 KG FOR STAINLESS STEEL HOUSING (OPTION)
 - 0,3 KG FOR INDICATOR (OPTION)

FLANGES DIMENSIONS ACCORDING EN 1092-1 & EN 1759-1								DIAPHRAGM & SEALS		WEIGHT (KG)
EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	L=0 ØM	L≠0 ØM=ØExt	
DN 50 PN 10/40		165	20	102	2	4 x 18	125	59	48	3,3
	NPS 2" CLASS 150	152	21	92	1,6	4 x 19	120,6	59	48	2,7
	NPS 2" CLASS 300	165	22,5	92	1,6	8 x 19	127	59	48	3,7
DN 80 PN 40		200	24	138	2	8 x 18	160	73	73	5,8
	NPS 3" CLASS 150	190	24	127	1,6	4 x 19	152,4	73	73	5,3
	NPS 3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	73	73	7,8
DN 100 PN 16		220	22	158	2	8 x 18	180	96	96	5,9
	NPS 4" CLASS 150	229	24	157	1,6	8 x 19	190,5	96	96	7,7
	NPS 4" CLASS 300	254	32	157	1,6	8 x 22,2	200	96	96	12,7

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ -X ₁₄ X ₁₅ F K E □ □ □ □ G - □ □ □ □ - □ □	SPAN	SPAN LIMIT	
		Min.	Max.
X ₇ = V, W, A, B	FKE □□2	0,1 KPa (1 mbar)	6 KPa (60 mbar)
X ₁₁ = Y, A, B, C, D	FKE □□3	0,32 KPa (3,2 mbar)	32 KPa (320 mbar)
	FKE □□5	1,3 KPa (13 mbar)	130 KPa (1,3 bar)
	FKE □□6	5 KPa (50 mbar)	500 KPa (5 bar)
	FKE □□8	30 KPa (300 mbar)	3 MPa (30 bar)

DRAWING 8- REMOTE SEAL TYPE DIFFERENTIAL PRESSURE TRANSMITTER : FKD...VG

FOR PN ≤ 50 BAR : REDUCED VOLUME FLANGES ARE WELDED ON THE MEASURING CELL



FLUSHING RING DIMENSIONS (OPTION)

EN 1092-1	EN 1759-1	HOLES X	ØP	ØR	S
DN 50		1/4-18 NPT	102	70	30
DN 50		1/2-14 NPT	102	70	30
	NPS 2"	1/4-18 NPT	92	65	30
	NPS 2"	1/2-14 NPT	92	65	30
DN 80		1/4-18 NPT	138	91	30
DN 80		1/2-14 NPT	138	91	30
	NPS 3"	1/4-18 NPT	127	91	30
	NPS 3"	1/2-14 NPT	127	91	30
DN 100		1/4-18 NPT	162	116	30
DN 100		1/2-14 NPT	162	116	30
	NPS 4"	1/4-18 NPT	157	116	30
	NPS 4"	1/2-14 NPT	157	116	30

- WEIGHT : - 3,5 KG (WITHOUT OPTION)
 ADD : FLANGE'S WEIGHT (SEE TABLE)
 - 1 KG PER 50 MM OF EXTENSION
 - 2 KG FOR STAINLESS STEEL HOUSING OPTION
 - 0,3 KG FOR INDICATOR (OPTION)

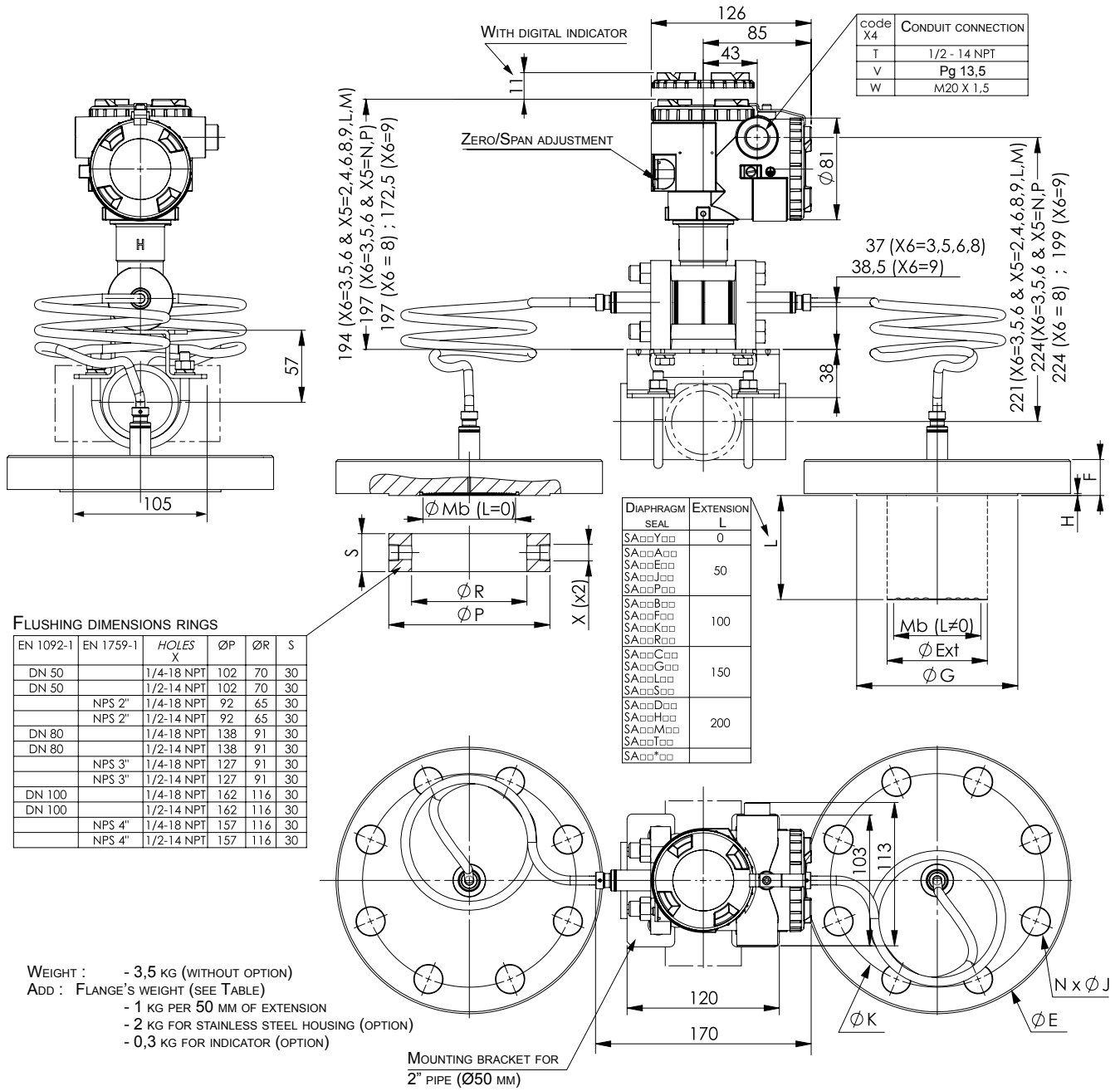
FLANGES DIMENSIONS ACCORDING EN 1092-1 & EN 1759-1

DIAPHRAGM SEAL	EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	Weight (kg)	SS 316L		EXOTIC MATERIAL	
										L=0 ØMb	L≠0 ØExt=ØMb	L=0 ØMb	L≠0 ØExt(ØMb)
SAG□□□□	DN50 PN40		165	20	102	2	4 x 18	125	3,3	59	48	59	48,3 (47)
SAH□□□□		2" CLASS 150	152	21	92	1,6	4 x 19	120,6	2,7	59	48	59	48,3 (47)
SAJ□□□□		2" CLASS 300	165	22,5	92	1,6	8 x 19	127	3,7	59	48	59	48,3 (47)
SA8□□□□	DN80 PN40		200	24	138	2	8 x 18	160	5,8	73	73	89	76 (72)
SA4□□□□		3" CLASS 150	190	24	127	1,6	4 x 19	152,4	5,3	73	73	89	76 (72)
SA6□□□□		3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	7,8	73	73	89	76 (72)
SA9□□□□	DN100 PN16		220	22	158	2	8 x 18	180	5,9	96	96	89	94 (89)
SA5□□□□		4" CLASS 150	229	24	157	1,6	8 x 19	190,5	7,7	96	96	89	94 (89)
SA7□□□□		4" CLASS 300	254	32	157	1,6	8 x 22,2	200	12,7	96	96	89	94 (89)

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ F K D □ □ □ V G □ □ □ □ Y X ₅ =2, 4, 6, 8, 9 X ₁₁ =C, H	DIAPHRAGM SEALS : HP X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ LP X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ S A □ □ □ □ □ □ S A □ □ □ □ □ □	WETTED PARTS MATERIAL	
		SS 316L L=0 ØMb L≠0 ØExt=ØMb	EXOTIC MATERIAL L=0 ØMb L≠0 ØExt(ØMb)
		SPAN LIMIT	
		Min.	Max.
		FKD□□3	0,32 KPa (3,2 mbar) 32 KPa (320 mbar)
		FKD□□5	1,3 KPa (13 mbar) 130 KPa (1,3 bar)
		FKD□□6	5 KPa (50 mbar) 500 KPa (5 bar)

DRAWING 9- REMOTE SEAL TYPE DIFFERENTIAL PRESSURE TRANSMITTER : FKD...VG

FOR PN > 50 BAR : REDUCED VOLUME FLANGES ARE WELDED AND BOLTED ON THE MEASURING CELL



FLUSHING DIMENSIONS RINGS

EN 1092-1	EN 1759-1	HOLES X	ØP	ØR	S
DN 50		1/4-18 NPT	102	70	30
DN 50		1/2-14 NPT	102	70	30
	NPS 2"	1/4-18 NPT	92	65	30
	NPS 2"	1/2-14 NPT	92	65	30
DN 80		1/4-18 NPT	138	91	30
DN 80		1/2-14 NPT	138	91	30
	NPS 3"	1/4-18 NPT	127	91	30
	NPS 3"	1/2-14 NPT	127	91	30
DN 100		1/4-18 NPT	162	116	30
DN 100		1/2-14 NPT	162	116	30
	NPS 4"	1/4-18 NPT	157	116	30
	NPS 4"	1/2-14 NPT	157	116	30

- WEIGHT : - 3,5 KG (WITHOUT OPTION)
 ADD : FLANGE'S WEIGHT (SEE TABLE)
 - 1 KG PER 50 MM OF EXTENSION
 - 2 KG FOR STAINLESS STEEL HOUSING (OPTION)
 - 0,3 KG FOR INDICATOR (OPTION)

FLANGES DIMENSIONS ACCORDING EN 1092-1 & EN 1759-1

DIAPHRAGM SEAL	EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	Weight (kg)	SS 316L		EXOTIC MATERIAL	
										L=0 ØMb	L#0 ØExt=ØMb	L=0 ØMb	L#0 ØExt(ØMb)
SAG□□□□	DN50 PN40		165	20	102	2	4 x 18	125	3,3	59	48	59	48,3 (47)
SAH□□□□		2" CLASS 150	152	21	92	1,6	4 x 19	120,6	2,7	59	48	59	48,3 (47)
SAJ□□□□		2" CLASS 300	165	22,5	92	1,6	8 x 19	127	3,7	59	48	59	48,3 (47)
SA8□□□□	DN80 PN40		200	24	138	2	8 x 18	160	5,8	73	73	89	76 (72)
SA4□□□□		3" CLASS 150	190	24	127	1,6	4 x 19	152,4	5,3	73	73	89	76 (72)
SA6□□□□		3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	7,8	73	73	89	76 (72)
SA9□□□□	DN100 PN16		220	22	158	2	8 x 18	180	5,9	96	96	89	94 (89)
SA5□□□□		4" CLASS 150	229	24	157	1,6	8 x 19	190,5	7,7	96	96	89	94 (89)
SA7□□□□		4" CLASS 300	254	32	157	1,6	8 x 22,2	200	12,7	96	96	89	94 (89)

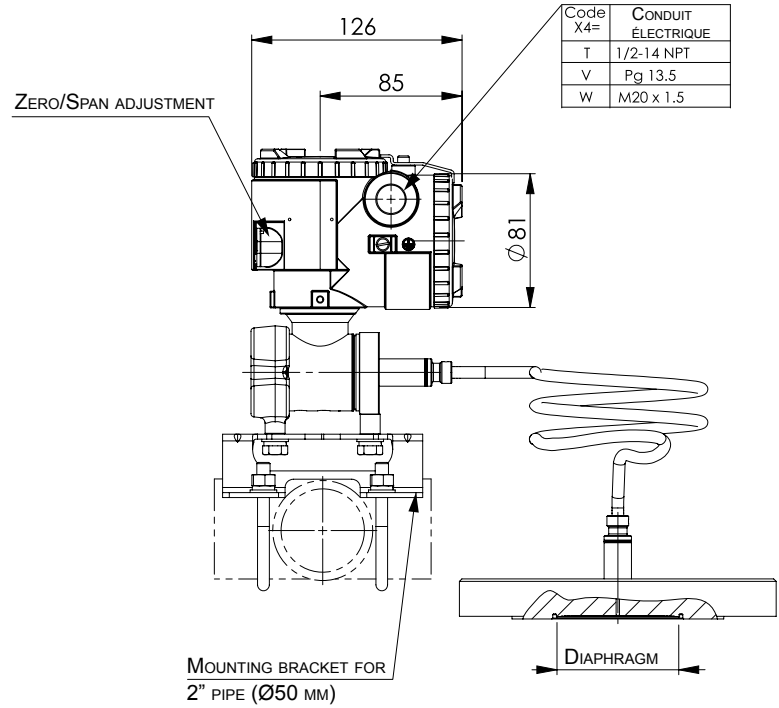
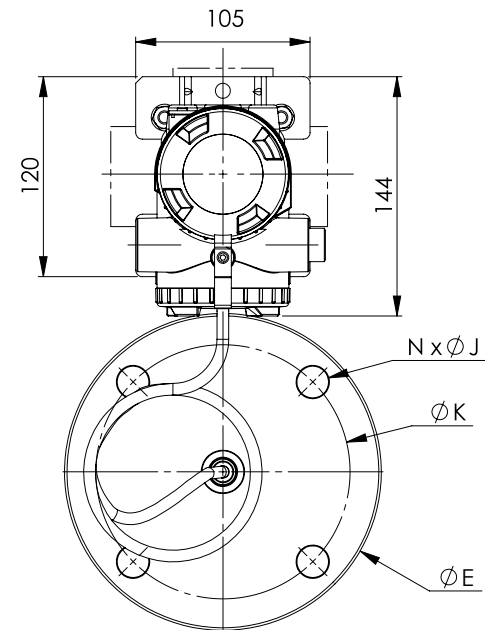
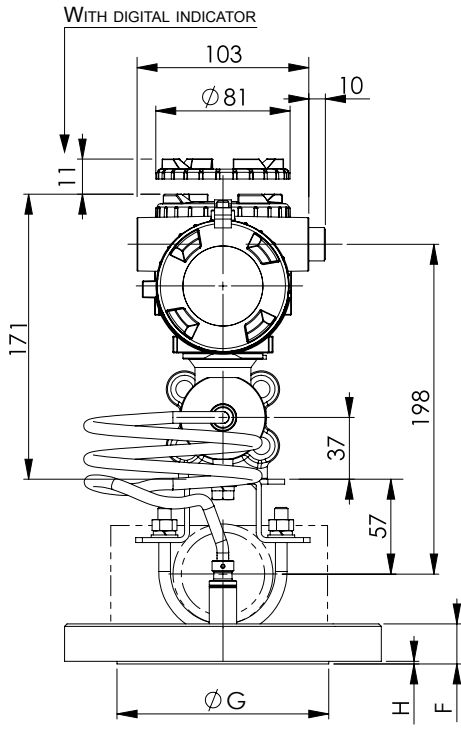
X₁ X₂ X₃ X₄ X₅ X₆ X₇ X₈- X₉ X₁₀X₁₁X₁₂X₁₃
 F K D □ □ □ V G- □ □ □ □ Y
 ↑ X11 = C..H

DIAPHRAGM SEALS :
 HP LP
 X₁ X₂ X₃ X₄ X₅ X₆ X₇ | X₁ X₂ X₃ X₄ X₅ X₆ X₇
 S A □ □ □ □ □ □ | S A □ □ □ □ □ □

SPAN	SPAN LIMIT	
	Min.	Max.
FKD□□3	0,32 KPa (3,2 mbar)	32 KPa (320 mbar)
FKD□□5	1,3 KPa (13 mbar)	130 KPa (1,3 bar)
FKD□□6	5 KPa (50 mbar)	500 KPa (5 bar)
FKD□□8	30 KPa (300 mbar)	3 MPa (30 bar)

DRAWING 11- REMOTE SEAL TYPE ABSOLUTE OR GAUGE PRESSURE TRANSMITTER : FKB / FKM...VG

FOR PN ≤ 50 BAR : REDUCED VOLUME FLANGES ARE WELDED ON THE MEASURING CELL



- WEIGHT : - 3,5 KG (WITHOUT OPTION)
 ADD : FLANGE'S WEIGHT (SEE TABLE)
 - 1 KG PER 50 MM OF EXTENSION
 - 2 KG FOR STAINLESS STEEL HOUSING (OPTION)
 - 0,3 KG FOR INDICATOR (OPTION)

FLANGES DIMENSIONS ACCORDING EN 1092-1 & EN 1759-1

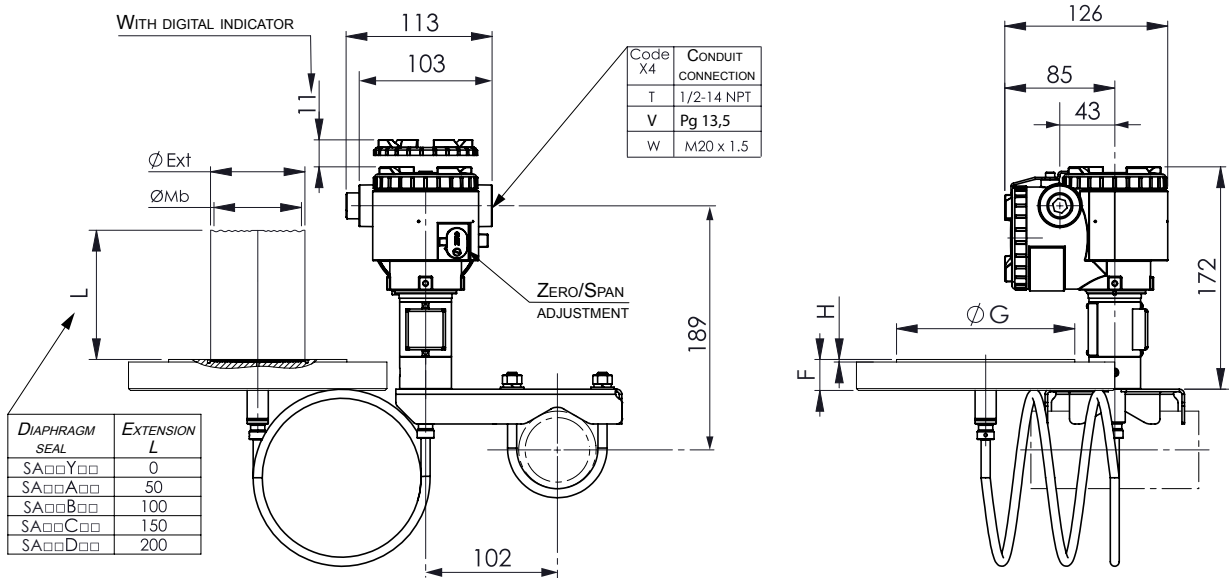
DIAPHRAGM SEAL	EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	ØM	WEIGHT (kg)
SA 8 V Y □ □	DN 50 PN 10/40		165	20	102	2	4 x 18	125	59	3,3
SA 4 V Y □ □		NPS 2" CLASS 150	152	21	92	1,6	4 x 19	120,6	59	2,7
SA 6 V Y □ □		NPS 2" CLASS 300	165	22,5	92	1,6	8 x 19	127	59	3,7
SA 8 V Y □ □	DN 80 PN 40		200	24	138	2	8 x 18	160	73	5,8
SA 4 V Y □ □		NPS 3" CLASS 150	190	24	127	1,6	4 x 19	152,4	73	5,3
SA 6 V Y □ □		NPS 3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	73	7,8
SA 9 V Y □ □	DN 100 PN 16		220	22	158	2	8 x 18	180	96	5,9
SA 5 V Y □ □		NPS 4" CLASS 150	229	24	157	1,6	8 x 19	190,5	96	7,7
SA 7 V Y □ □		NPS 4" CLASS 300	254	32	157	1,6	8 x 22,2	200	96	12,7

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ F K B □ □ □ V G-□ □ □ □ Y	DIAPHRAGM SEAL : X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ S A □ V Y □ □	SPAN	SPAN LIMIT	
			Min.	Max.
			FKB □ □ 1	1,3 kPa (0,013 bar)
FKB □ □ 2	5 kPa (0,05 bar)	500 kPa (5 bar)		
FKB □ □ 3	30 kPa (0,3 bar)	3 MPa (30 bar)		

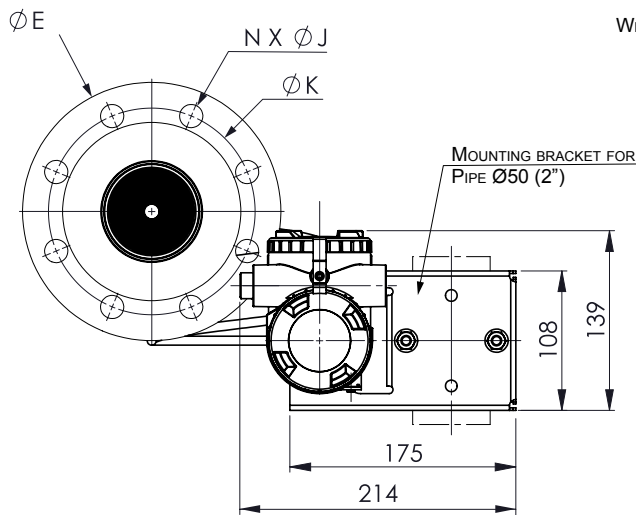
X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ F K M □ □ □ V G-□ □ □ □ Y	DIAPHRAGM SEAL : X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ S A □ V Y □ □	SPAN	SPAN LIMIT	
			Min.	Max.
			FKM □ □ 1	0,016 bar abs
FKM □ □ 2	0,013 bar abs	1,3 bar abs		
FKM □ □ 3	0,05 bar abs	5 bar abs		
FKM □ □ 4	0,3 bar abs	30 bar abs		

DRAWING 12- REMOTE SEAL TYPE GAUGE/ABSOLUTE PRESSURE TRANSMITTER (CAPILLARY MOUNTED) : FKP/FKH...VG

OUTLINE DIMENSIONS FOR CAPILLARY MOUNTED DIAPHRAGM SEAL



WEIGHT : 2 KG (WITHOUT OPTION)
 ADD : FLANGES' WEIGHT (SEE TABLE)
 1 KG PER 50 MM EXTENSION
 0,3 KG FOR INDICATOR OPTION
 2 KG FOR STAINLESS STEEL HOUSING OPTION



FLANGES DIMENSIONS ACCORDING EN 1092-1 & EN 1759-1

DIAPHRAGM SEAL	EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	Weight (kg)	SS 316L		EXOTIC MATERIAL	
										L=0 ØMb	L#0 ØExt=ØMb	L=0 ØMb	L#0 ØExt(ØMb)
SAG□□□□	DN50 PN40		165	20	102	2	4 x 18	125	3,3	59	48	59	48,3 (47)
SAH□□□□		2" CLASS 150	152	21	92	1,6	4 x 19	120,6	2,7	59	48	59	48,3 (47)
SAJ□□□□		2" CLASS 300	165	22,5	92	1,6	8 x 19	127	3,7	59	48	59	48,3 (47)
SA8□□□□	DN80 PN40		200	24	138	2	8 x 18	160	5,8	73	73	89	76 (72)
SA4□□□□		3" CLASS 150	190	24	127	1,6	4 x 19	152,4	5,3	73	73	89	76 (72)
SA6□□□□		3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	7,8	73	73	89	76 (72)
SA9□□□□	DN100 PN16		220	22	158	2	8 x 18	180	5,9	96	96	89	94 (89)
SA5□□□□		4" CLASS 150	229	24	157	1,6	8 x 19	190,5	7,7	96	96	89	94 (89)
SA7□□□□		4" CLASS 300	254	32	157	1,6	8 x 22,2	200	12,7	96	96	89	94 (89)

WETTED PARTS MATERIAL

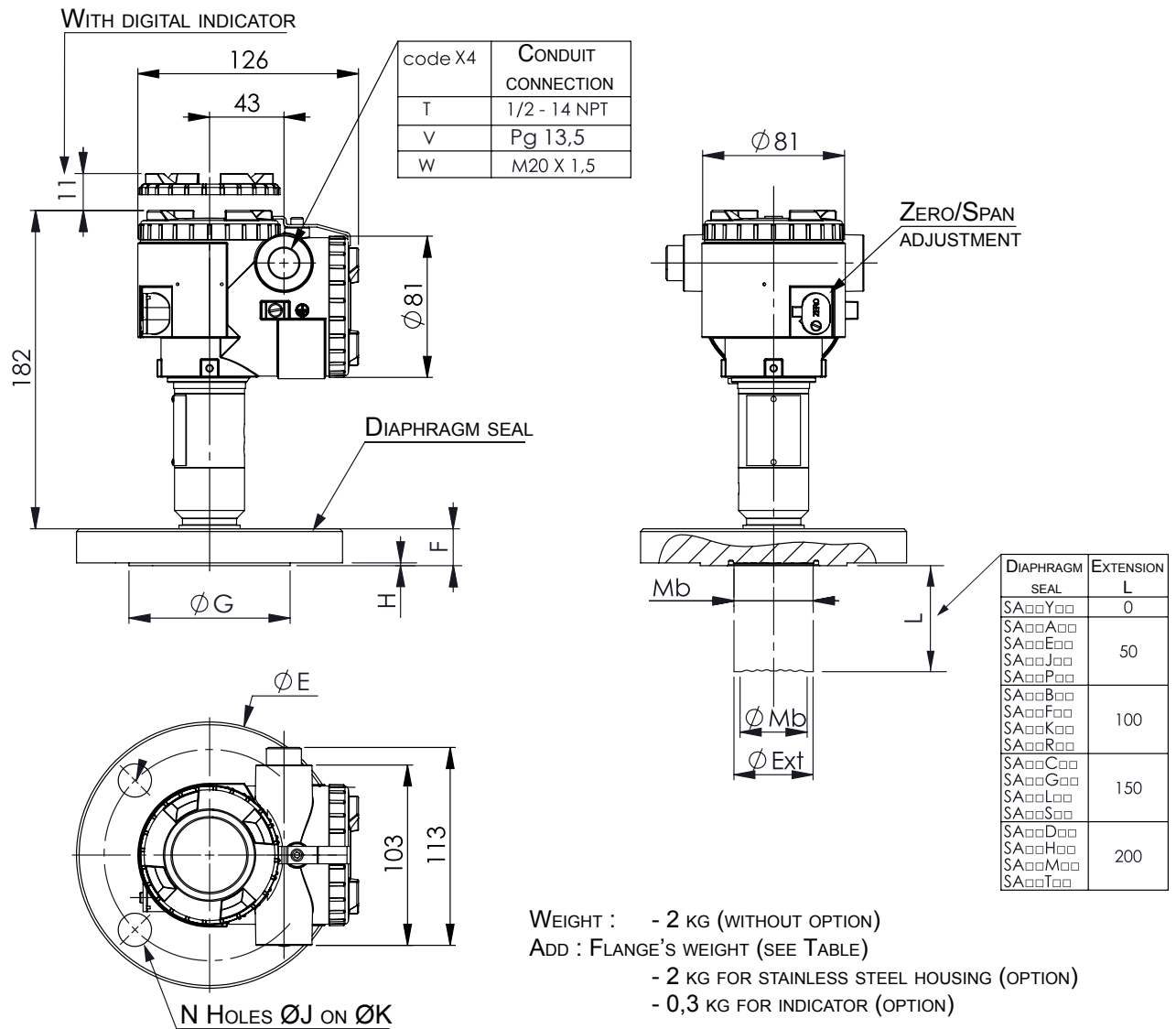
ØMb = Ø DIAPHRAGM
 Ø EXT = Ø EXTENSION

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ F K H □□□ V G-□□□□ Y X ₁₁ = B, G	DIAPHRAGM SEAL X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ S A □□□□□ X ₁₁ = A, B, C, D, G, H, K, L	SPAN LIMIT SPAN Min. Max. FKH □□2 8,125 kPa (81,25 mbar) 130 kPa (1300 mbar) FKH □□3 31,25 kPa (0,3125 bar) 500 kPa (5 bar) FKH □□4 187,5 kPa (1,875 bar) 3000 kPa (30 bar)
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X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ -X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ F K P □□□ V G-□□□□ Y X ₁₁ = B, G	DIAPHRAGM SEAL X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ S A □□□□□	SPAN LIMIT SPAN Min. Max. FKP □□1 8,125 kPa (81,25 mbar) 130 kPa (1300 mbar) FKP □□2 31,25 kPa (0,3125 bar) 500 kPa (5 bar) FKP □□3 187,5 kPa (1,875 bar) 3000 kPa (30 bar) FKP □□4 625 kPa (6,25 bar) 10000 kPa (100 bar)
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DRAWING 13- REMOTE SEAL TYPE GAUGE PRESSURE TRANSMITTER (RIGID MOUNTED) : FKP/FKH...VG

OUTLINE DIMENSIONS FOR RIGID MOUNTED

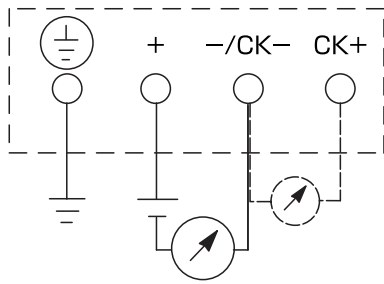


FLANGES DIMENSION ACCORDING EN 1092-1 & EN 1759-1

DIAPHRAGM SEAL	EN 1092-1	EN 1759-1	ØE	F min	ØG	H	N x ØJ	ØK	Weight (kg)	SS 316L		EXOTIC MATERIAL		WETTED PARTS MATERIAL
										L=0 ØMb	L≠0 ØExt=ØMb	L=0 ØMb	L≠0 ØExt(ØMb)	
SAG□□□□	DN50 PN40		165	20	102	2	4 x 18	125	3,3	59	48	59	48,3 (47)	ØMb = Ø DIAPHRAGM Ø EXT = Ø EXTENSION
SAH□□□□		2" CLASS 150	152	21	92	1,6	4 x 19	120,6	2,7	59	48	59	48,3 (47)	
SAJ□□□□		2" CLASS 300	165	22,5	92	1,6	8 x 19	127	3,7	59	48	59	48,3 (47)	
SA8□□□□	DN80 PN40		200	24	138	2	8 x 18	160	5,8	73	73	89	76 (72)	
SA4□□□□		3" CLASS 150	190	24	127	1,6	4 x 19	152,4	5,3	73	73	89	76 (72)	
SA6□□□□		3" CLASS 300	210	28,5	127	1,6	8 x 22,2	168,3	7,8	73	73	89	76 (72)	
SA9□□□□	DN100 PN16		220	22	158	2	8 x 18	180	5,9	96	96	89	94 (89)	
SA5□□□□		4" CLASS 150	229	24	157	1,6	8 x 19	190,5	7,7	96	96	89	94 (89)	
SA7□□□□		4" CLASS 300	254	32	157	1,6	8 x 22,2	200	12,7	96	96	89	94 (89)	

X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ X ₈ - X ₉ X ₁₀ X ₁₁ X ₁₂ X ₁₃ Model : F K P □ □ □ V G - □ □ □ □ Y DIAPHRAGM SEAL : X ₁ X ₂ X ₃ X ₄ X ₅ X ₆ X ₇ S A □ □ □ S □ X ₁₁ = L, S	SPAN	SPAN LIMIT	
		Min.	Max.
	FKP □ □ 1	8,125 kPa (0,08125 bar)	130 kPa (1,3 bar)
	FKP □ □ 2	31,25 kPa (0,3125 bar)	500 kPa (5 bar)
	FKP □ □ 3	187,5 kPa (1,875 bar)	3000 kPa (30 bar)
	FKP □ □ 4	625 kPa (6,25 bar)	10000 kPa (100 bar)

CONNECTION DIAGRAM



ELECTROMAGNETIC COMPATIBILITY

All FCX Series electronic pressure transmitters – Type FCX-All – Models FK□□□□G... are in conformity with the provision of the EMC Directive 2014/30/EU on the harmonization of the laws of the Members States relating to electromagnetic compatibility.

All these models of pressure transmitters are in accordance with the harmonized standards :

- **EN 61326-1** (*Electrical equipment for measurement, control and laboratory use - EMC requirements – Part 1: General requirements*).
- **EN 61326-2-3** (*Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning*).

Emission limits (according to EN 55011 / CISPR 11, Group 1 Class A)

Frequency range (MHz)	Limits	Basic standard
30 to 230	40 dB (µV/m) quasi peak measured at 3m distance	Passed
230 to 1000	47 dB (µV/m) quasi peak measured at 3 m distance	

Immunity

Phenomenon	Test value	Standard	Required Performance criteria	Result of criteria
Electrostatic Discharge	± 4 kV (Contact Discharge) ± 8 kV (Air Discharge)	EN/IEC 61000-4-2	B	A
Radiated, Electromagnetic Field	10 V/m (80 MHz to 1.0 GHz) 3 V/m (1.4 GHz to 2.0 GHz) 1 V/m (2.0 GHz to 2.7 GHz)	EN/IEC 61000-4-3	A	A
Fast Transients (Burst)	± 2 kV, 5/50 ns @ 5 kHz	EN/IEC 61000-4-4	B	A
Surge Transients	1 kV line to line 2 kV line to ground	EN/IEC 61000-4-5	B	A
Conducted RF Disturbances	3 Vrms (150 Hz to 80 MHz) 80% AM @ 1 kHz	EN/IEC 61000-4-6	A	A
Power Frequency Magnetic Field	30 A/m (50 Hz , 60 Hz)	EN/IEC 61000-4-8	A	A

Performance criteria (A & B): according to IEC 61326



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