FLOW

Metran-360M Mass Flowmeters

- Process fluids: liquid, slurry, gas
- DN: 1 to 200 mm
- Mass flow range: up to 1800 t/h
- Liquid density range: 650 to 2000 kg/m^3
- Liquid mass flow measurement accuracy:
  - RU, RV, RS sensors: ±0.1%
  - RE sensors: ±0.2%; ±0.15%
- Gas mass flow measurement accuracy:
  - RU, RV, RS sensors: ±0.5%
  - RE sensors: ±0.75%
- Density measurement accuracy: ±0.5, ±1 or ±2 kg/m^3
- Process pressure: up to 25 MPa
- Process temperature: –196 to 350 °C
- Output: frequency/pulse, 4-20 mA, HART, Modbus, Profibus PA, DP and Foundation Fieldbus communications
- Integral or remote transmitter mounting
- Explosion-proof version
- Verification interval is 5 years (liquid), 4 years (gas), or 1 year (density)

Mass (Coriolis) flowmeters are designed for direct measurement of mass flow, density, temperature, calculation of volumetric flow of liquids, gases and suspensions. All measurements are performed in real time. No additional measurement equipment is required.

Coriolis flow and density meters help increase production capacity and performance as well as site cost efficiency.

The flowmeter consists of a sensor and a transmitter.

There are 4 models of sensors and 5 models of transmitters with their functionality meeting a wide variety of requirements. Brief specifications of models given in this document allow to compare different models of sensors and transmitters.

CORIOLIS FLOW AND DENSITY METERS: PRINCIPLE OF OPERATION

Mass Flow Measurement

The Coriolis flowmeter consists of a sensor and a transmitter. The sensor directly measures fluid flow, density and temperature of sensor tubes. The transmitter converts received sensor data into standard output.

When the process fluid enters the sensor, it is split equally between two flow tubes. A drive coil (Fig. 1) stimulates the tubes to oscillate in opposition to each other.

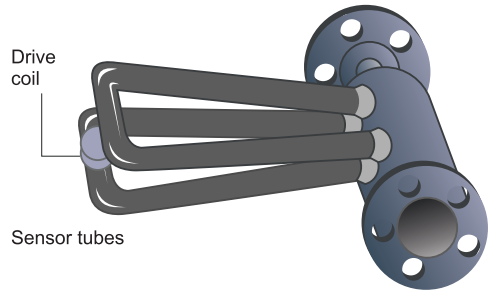

Figure 1

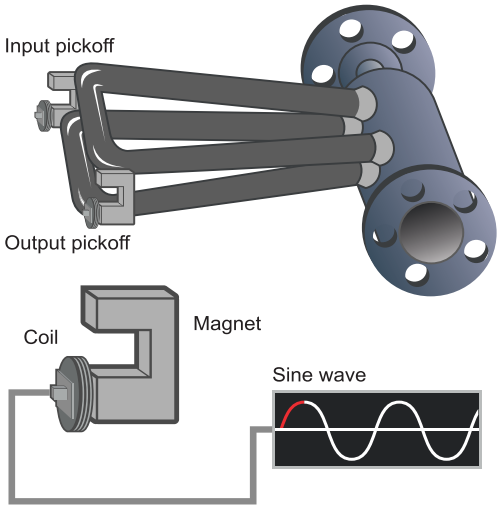

Figure 2

Magnet and solenoid coil assemblies, known as "pickoffs", are installed on flow tubes (Fig. 2). Coils are mounted on one tube, while magnets are mounted on the opposite tube. Each coil is designed to move within the uniform magnetic field generated by its corresponding permanent magnet. The generated voltage from each coil takes the shape of a sine wave. These signals represent the movement of one tube relative to the other.

When no fluid is moving, the sine waves from both pickoff coils are in phase (Fig. 3).

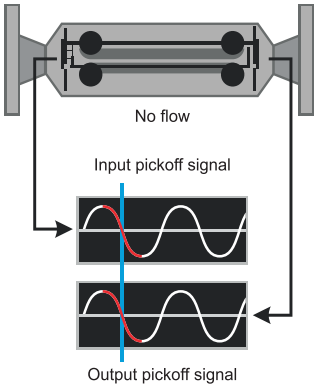

Figure 3

When the fluid moves through the flow tubes, the physical phenomenon manifested is the Coriolis effect. The fluid's translational motion in an oscillating flow tube induces Coriolis acceleration, which, in its turn, generates a Coriolis force. This force opposes the tube's motion provided for by the drive coil, i.e., when the tube moves upward during the half-cycle, then for the liquid entering, the Coriolis force is directed downward. As the liquid flows through the bend of the tube, the direction of the force is reversed. Thus, in the inlet half of the tube, the force acting from the liquid side prevents the tube from shifting, and in the outlet half it helps. This causes the tube to bend (Fig. 4).

When the tube moves downward in the second half of its vibration cycle, the direction of the tube's bending reverses.

The Coriolis force and thus the amount of bending in the tube are directly proportional to the mass flow rate. The pickoffs measure the phase shift as the opposite sides of the sensor tube move.

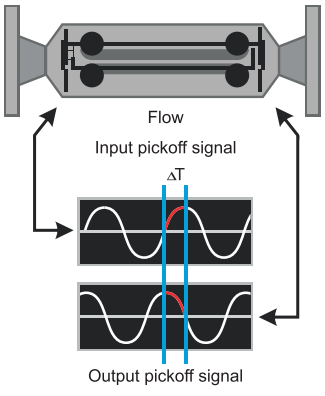

Figure 4

As a result of the sensor tube bending, out-of-phase signals are generated at the pickoffs, since the signal from the input pickoff is delayed with respect to the signal from the output pickoff (Fig. 4).

The time difference between the signals (ΔT) is measured in microseconds and directly proportional to the mass flow rate. The more ΔT, the greater mass flow rate.

Density Measurement

The relationship between mass and natural oscillation frequency of the sensor tube is the basis for density measurement in a Coriolis flowmeter.

In the operating mode, the drive coil (Fig. 1) is powered by the transmitter, while the sensor tubes are vibrated at their natural frequency. As soon as the mass of the fluid increases, the natural oscillation frequency of the tubes decreases; accordingly, as the mass of the fluid decreases, the natural oscillation frequency of the tubes increases.

The oscillation frequency of the tubes depends on their geometry, material, construction and mass. Mass consists of two parts: masses of the tubes themselves and masses of the fluid in the tubes. For a specific size, the mass of the sensor tubes is fixed. Since the mass of the fluid in the tubes is its density multiplied by its volume, and the volume is also fixed for a specific size, the oscillation frequency of the tubes can be related to the density of the process fluid and determined by measuring the oscillation period.

The oscillation frequency is measured by the output pickoff (Fig. 5) in cycles per second (Hz). The oscillation period is known to be inversely proportional to frequency. It is easier to measure the cycle time than to count the number of cycles, so the transmitter calculates fluid density using the period of tube oscillations in microseconds (Fig. 5). Density is directly proportional to the period of sensor tube oscillations.

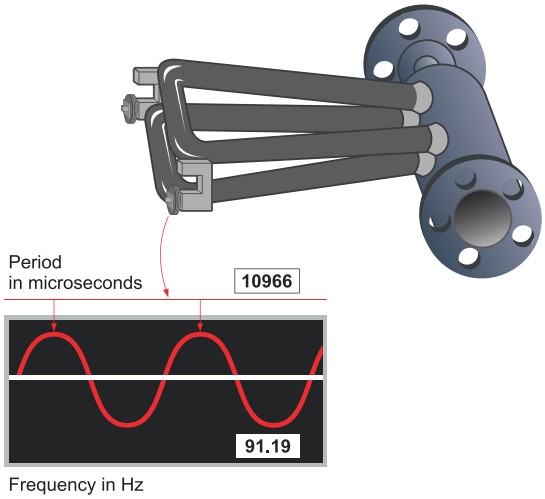

Figure 5

BRIEF SENSOR INFORMATION

RU SENSORS

The highest accuracy and the largest measurement range. High density measurement accuracy.
Unparalleled resistance to external conditions (pressure, temperature, vibration).
Nominal line size: 1 to 200 mm.
Standard 316L stainless steel models:
RU001M, RU015M, RU025M, RU040M, RU050M, RU100M, RU150M, RU200M.
Nickel alloy C22 models:
RU010H, RU015H, RU040H, RU050H, RU100H

RV, RE SENSORS

Universal general use sensors. Self-draining design.
RV sensor DN: 2 to 40 mm.
RE sensor DN: 10 to 80 mm.
Standard 316L stainless steel RV models:
RV002M, RV004M, RV005M, RV010M, RV015M, RV025M, RV040M
Standard 316L stainless steel RE models:
RE010M, RE015M, RE025M, RE040M, RE050M, RE080M
Nickel alloy C22 RE models:
RE025H, RE040H

RS SENSORS

High accuracy of mass flow and density measurement for various fluids.
Nominal line size for flange connection: 15 to 40 mm.
Standard 316L stainless steel RS models:
RS015M, RS025M, RS040M

BRIEF TRANSMITTER INFORMATION

Various transmitters, either integral or remote mount, are available for each sensor model. There are versions with and without LCD, with various output configurations. General information is given in Tables 1 and 2.

T010/020

T030

T001

T040

Figure 6. Transmitters

Table 1

Transmitter Model	Compatible Sensor	Mounting	Description
T001	RU, RV	Integral, remote (up to 80 m)	Transmitter with display and capacitive buttons, configuration without cover removal. Backlight
T010	RU, RV, RE, RS	Integral	Compact transmitter, without display
T020	RU, RV, RE, RS	Integral	Compact transmitter, without display
T030	RU, RV, RE, RS	Integral	Transmitter with display and buttons, configuration without cover removal
T040	RE	Integral	Compact transmitter, without display

Table 2

	T001	T010/T020	T030	T040
Supply voltage	22-30 VDC; 85-265 VAC, 50 to 60 Hz	18-36 VDC	18-30 VDC	20-30 VDC
Power consumption, W, max	20	8	8	8
Display parameters	The display can be rotated in 90-degree increments. Housing cover has a non-glare tempered glass lens to protect the display screen. Use capacitive buttons to control the device without removing the cover.	No display	Display with buttons. 160x80 resolution. May be rotated. Housing cover has a non-glare tempered glass lens to protect the display screen. Use buttons for control without removing the cover.	No display
Output	4-20 mA / 4-20 mA (HART 7) / Frequency output / RS-485 / Profibus DP / Profibus PA / FF	Frequency/pulse output / RS-485	4-20 mA + HART7 / Frequency/pulse output / RS-485	Frequency/pulse output / RS-485 / Discrete output

Modbus-Master, a specialized software used to configure and diagnose flowmeters with Modbus digital signal, is available at https://metran.com/.

Device Description (DD) files required to integrate the flowmeter into Metran-Configuration software, HART Communicators, AMS Device Manager and other host systems may be downloaded at https://metran.com/.

SENSOR SPECIFICATIONS

The letter at the end of the model code (e.g., RU100**M**) represents wetted part material: M – 316L stainless steel, H – nickel alloy C22.

Table 3

	DN, mm	Nominal Flow Rate, kg/h	Maximum Flow Rate, kg/h	Zero Stability, kg/h	Temperature Range [1) 2)]	Sensor Tube Pressure Rating (depending on material, MPa)
			RU			
RU001M	1	10	13	0.00075	ST	10
RU010M	10	1100	1900	0.055	ST, ET	10
RU015M	15	5200	9000	0.26	ST, ET	10
RU025M	25	18000	30000	1.4	ST, ET, HT, CT	10
RU040M	40	36000	60000	1.8	ST, ET, HT, CT	10
RU050M	50	61000	92000	3.1	ST, ET, HT, CT	10
RU080M	80	170000	300000	8.5	ST, ET, HT, CT	10
RU100M	100	240000	420000	12	ST, ET, HT, CT	6.3
RU150M	150	500000	880000	25	ST, ET, CT	5
RU200M	200	1000000	1800000	50	ST, ET	10
RU010H	10	1100	1900	0.055	ST, ET, HT	10
RU015H	15	5200	9000	0.26	ST, ET, HT	10
RU040H	40	36000	60000	1.8	ST, ET, HT	10
RU050H	50	61000	92000	3.1	ST, ET, HT	10
RU100H	100	240000	420000	12	ST, ET, HT	6.3
			RV			
RV002M	2	80	110	0.0047	ST	25
RV004M	4	300	520	0.02	ST	25
RV005M	5	500	900	0.033	ST	10
RV010M	10	1 200	2 100	0.08	ST	10
RV015M	15	4 000	7 000	0.27	ST, ET	10
RV025M	25	11 000	20 000	0.73	ST, ET	10
RV040M	40	26 000	47 000	1.7	ST, ET	10
			RE			
RE010M	10	1 500	2 600	0.15	ST	10
RE015M	15	4 500	7 800	0.45	ST	10
RE025M	25	12 000	21 000	1.2	ST	10
RE040M	40	28 000	50 000	2.8	ST	10
RE050M	50	70 000	120 000	7	ST	10
RE080M	80	150 000	260 000	15	ST	10
RE025H	25	14 000	25 000	1.4	ST	20
RE040H	40	32 000	56 000	3.2	ST	20
			RS			
RS010M	10	1 400	2500	0.07	ST, ET	10
RS015M	15	4 000	7000	0.2	ST, ET	10
RS025M	25	11 000	20000	0.55	ST, ET	10
RS040M	40	26 000	47000	1.3	ST, ET	10
RS050M	50	65 000	120000	3.25	ST, ET	10
RS080M	80	150 000	260000	7.5	ST, ET	10
RS100M	100	350 000	500000	17.5	ST, ET	10

[1)] Temperature range may be limited by operating conditions in hazardous areas, transmitter mounting option, and/or ambient temperature.
[2)] Temperature ranges: ST (–50 to 150 °C), ET (–50 to 240 °C), HT (–50 to 350 °C), CT (–196 to 150 °C).

MEASUREMENT ACCURACY

Table 4

Characteristic / Model	RU	RV	RE	RS
Liquid mass flow and mass δM_l, % [1) 2)]	±0.1	±0.1	±0.15; ±0.2	±0.1
Mass flow of natural gas and other gases [1) 2)]	±0.5	±0.5	±0.75	±0.5
Limits of absolute reference accuracy for liquid density measurements $\Delta\rho$, kg/m³	±0.5 (DN 15-150); ±1 (DN 10)	±1 (DN 15-40); ±2 (DN 2-10)	±2	±0.5; ±1 (DN 10)
Liquid volumetric flow and volume δV, m³/h [1)]	$\delta V = \pm\sqrt{(\delta M_l)^2 + \left(\frac{\Delta\rho}{\rho}\cdot 100\right)^2}$, where ρ is liquid density, kg/m³			
Max absolute error for temperature measurements, °C	±(1 + 0.5% of $\lvert t_{meas}\rvert$), where t_{meas} is measured temperature, °C			
Limits of permissible error of span for 4-20 mA output reproduction, %: - Reference - Temperature effect caused by ambient temperature change from (23±10) °C per 1 °C	±0.05 ±0.002			

[1)] Reference conditions for liquid flow measurement: water at temperature 20 to 25 °C and pressure 0.1 to 0.2 MPa.

[2)] Limits of permissible error at mass flow rate $Q_m \geq Q_t$ are given, where Q_t is transitional flow rate, kg/h, calculated by the formula:

$$Q_t = \frac{ZS}{\delta_0}\cdot 100,$$

where ZS is zero stability value (given in Table 3), kg/h;
δ_0 are limits of permissible error at mass flow rate $Q_m \geq Q_t$.
At mass flow rate $Q_m < Q_t$, limits of permissible error of reading:

$$\delta = \pm\frac{ZS}{Q}\cdot 100,$$

where Q is measured mass flow rate, kg/h.
Minimum liquid mass flow rate is determined by the formula $Q_{Mmin} = ZS\cdot 20$.

APPROVALS

Flowmeters comply with the following Customs Union Technical Regulations:
- CU TR 004/2011 On Low Voltage Equipment Safety
- CU TR 020/2011 On Electromagnetic Compatibility of Technical Equipment.

Explosion-proof flowmeters comply with Customs Union Technical Regulations (CU TR) 012/2011 On Safety of Equipment Designed for Operation in Explosive Environments, GOST 31610.0-2014 (IEC 60079-0:2011).

Explosion protection of transmitters is provided by Explosion-Proof Enclosures (d) as per GOST IEC 60079-1, Intrinsically Safe Electrical Circuit (i) as per GOST 31610.11 and Dust Ignition Protection by Enclosures “t” as per GOST IEC 60079-31 protection types and compliance of their design with GOST 31610.0.

Transmitters are available with explosion-proof protection level and the following marking:
- 1Ex db [ia Ga] IIC T6 Gb X; Ex tb [ia Da] IIIC T80°C Db X for T010, T020, T030 transmitters;
- 1Ex db ia [ia Ga] IIC T6... T1 Gb X; Ex tb ia [ia Da] IIIC T80°C... T450°C Db X for T001 transmitters.

Explosion protection of sensors is provided by Intrinsically Safe Electrical Circuit as per GOST 31610.11 protection type and compliance of their design with GOST 31610.0. Sensors shall have explosion-proof protection level and the following marking: 0Ex ia IIC T6... T1 Ga X; Ex tb IIIC T80°C...T450°C Db X.

Ambient temperature:
$-40\ °C \leq T_{amb} \leq 60\ °C$ – transmitter
$-50\ °C \leq T_{amb} \leq 60\ °C$ – sensor.

X sign, which follows marking, means it is required to observe the requirements (special conditions) given in the Ex approval certificate.

Flowmeters are seismic resistant when earthquake grade is 9 on MSK-64 scale and they are installed up to 70 m above grade level.

Flowmeters are approved for use with food and drinking water.

WARRANTY

Flowmeters are warranted for 12 months from the date of commissioning or for 18 months after their delivery, whichever period expires first.

MTBF is 150 000 hours minimum. Average lifetime is at least 20 years.

The manufacturer guarantees that the flowmeter meets the specifications provided that the user follows the rules of transportation, storage and operation.

VERIFICATION

Verifications interval is 4 years for flowmeters designed to measure gas mass flow rate and mass, 5 years for flowmeters designed to measure liquid flow rate and amount and 1 year for density measurement.

DELIVERY SET

- Flowmeter
- Technical Data Sheet
- Operation Manual

Upon customer’s request and at extra cost, the following options are available:
- Mounting part kit (mating flanges, gaskets and fixtures)
- Cable entries to meet the requirements of the installation point
- Spare parts
- Power supply
- Metran-683 HART-USB modem

MODEL STRING STRUCTURE

Transmitter Ordering Information

Table 5

Option Code	Option Description	Applicability				
		T001	T010	T020	T030	T040
Metran-360M	Metran-360M Mass Flowmeter					
Code I	**Model**					
T001	T001 Transmitter	●				
T010	T010 Transmitter		●			
T020	T020 Transmitter			●		
T030	T030 Transmitter				●	
T040	T040 Transmitter					●
Code II	**Hazardous Location Certifications**					
OL	No (general industrial version)	●	●	●	●	●
EX	Explosion-proof version (T001: 1Ex db ia [ia Ga] IIC T6...T1 Gb X, Ex tb ia [ia Da] IIIC T80°C...T450°C Db X; T010/020/030: 1Ex db [ia Ga] IIC T6 Gb X, Ex tb [ia Da] IIIC T80°C Db X)	●	●	●	●	
Code III	**Mounting Option and Housing Material**					
IA	Integral, aluminum housing	●	●	●	●	
RA	Remote, aluminum housing	●			●	
IS	Integral, CF3M stainless steel housing	●	●	●	●	●
RS	Remote, CF3M stainless steel housing	●			●	
Code IV	**Cable Entry Connection Thread**					
B	1/2 in NPT	●	●	●	●	
E	M20x1.5	●	●	●	●	
O	No					●
Code V	**Supply Voltage**					
U	20 to 30 VDC and 85 to 265 VAC; self-switching	●				
D	18 to 30 VDC (for T010, T020, T030 transmitters), 20 to 36 VDC (for T040 transmitter)		●	●	●	●
A	85 to 265 VAC		●	●	●	
Code VI	**Display**					
0	No display		●	●		
1	Display and buttons	●			●	
Code VII	**Output**					
1	4-20 mA + HART, frequency, RS-485	●		●	●	
2	4-20 mA, 4-20 mA + HART, frequency/pulse, RS-485	●				
3	Frequency/pulse, RS-485		●	●	●	
4	Profibus PA, frequency, RS-485	●				
5	Profibus DP, frequency, RS-485	●				
6	Foundation Fieldbus, frequency, RS-485	●				
7	4-20 mA, pulse, RS-485	●				
8	Frequency/pulse, RS-485, discrete					●
Code VIII	**Factory Options**					
Z	Standard product	●	●	●	●	●
X	ETO product	●	●	●	●	●
Code IX	**Other Options**					
_XXXXX	ETO number	●	●	●	●	●

Sensor Ordering Information

Table 6

Option Code	Option Description	Applicability					
		RUXXXM	RVXXXM	REXXXM	RSXXXM	RUXXXH	REXXXH
Code IX	**Line Size**						
RU001M	RU sensor, DN 1 mm, with stainless steel tubes	●					
RU010M	RU sensor, DN 10 mm, with stainless steel tubes	●					
RU015M	RU sensor, DN 15 mm, with stainless steel tubes	●					
RU025M	RU sensor, DN 25 mm, with stainless steel tubes	●					
RU040M	RU sensor, DN 40 mm, with stainless steel tubes	●					
RU050M	RU sensor, DN 50 mm, with stainless steel tubes	●					
RU080M	RU sensor, DN 80 mm, with stainless steel tubes	●					
RU100M	RU sensor, DN 100 mm, with stainless steel tubes	●					
RU150M	RU sensor, DN 150 mm, with stainless steel tubes	●					
RU200M	RU sensor, DN 200 mm, with stainless steel tubes	●					
RU010H	RU sensor, DN 10 mm, with Hastelloy C alloy tubes					●	
RU015H	RU sensor, DN 15 mm, with Hastelloy C alloy tubes					●	
RU040H	RU sensor, DN 40 mm, with Hastelloy C alloy tubes					●	
RU050H	RU sensor, DN 50 mm, with Hastelloy C alloy tubes					●	
RU100H	RU sensor, DN 100 mm, with Hastelloy C alloy tubes					●	
RV002M	RV sensor, DN 2 mm, with stainless steel tubes		●				
RV004M	RV sensor, DN 4 mm, with stainless steel tubes		●				
RV005M	RV sensor, DN 5 mm, with stainless steel tubes		●				
RV010M	RV sensor, DN 10 mm, with stainless steel tubes		●				
RV015M	RV sensor, DN 15 mm, with stainless steel tubes		●				
RV025M	RV sensor, DN 25 mm, with stainless steel tubes		●				
RV040M	RV sensor, DN 40 mm, with stainless steel tubes		●				
RE010M	RE sensor, DN 10 mm, with stainless steel tubes			●			
RE015M	RE sensor, DN 15 mm, with stainless steel tubes			●			
RE025M	RE sensor, DN 25 mm, with stainless steel tubes			●			
RE040M	RE sensor, DN 40 mm, with stainless steel tubes			●			
RE050M	RE sensor, DN 50 mm, with stainless steel tubes			●			
RE080M	RE sensor, DN 80 mm, with stainless steel tubes			●			
Code IX	**Line Size (Continued)**						
RE010H	RE sensor, DN 10 mm, with Hastelloy C alloy tubes						●
RE015H	RH sensor, DN 15 mm, with Hastelloy C alloy tubes						●
RE025H	RE sensor, DN 25 mm, with Hastelloy C alloy tubes						●
RE040H	RE sensor, DN 40 mm, with Hastelloy C alloy tubes						●
RS010M	RS sensor, DN 10 mm, with stainless steel tubes				●		
RS015M	RS sensor, DN 15 mm, with stainless steel tubes				●		
RS025M	RS sensor, DN 25 mm, with stainless steel tubes				●		
RS040M	RS sensor, DN 40 mm, with stainless steel tubes				●		
RS050M	RS sensor, DN 50 mm, with stainless steel tubes				●		
RS080M	RS sensor, DN 80 mm, with stainless steel tubes				●		
RS100M	RS sensor, DN 100 mm, with stainless steel tubes				●		
Code X	**Electronics Interface**						
1	Integral mount transmitter	●	●	●	●	●	●
2	Integral mount transmitter on the stand (except RU010M, RU015M, RV002M-RU010M, RU010H, RU015H)	●	●		●	●	
3	Remote mount with aluminum junction box	●	●	●	●	●	●
4	Remote mount with aluminum junction box on the stand (except RU010M, RU015M, RV002M-RU010M, RU010H, RU015H)	●	●		●	●	
5	Remote mount with CF3M stainless steel junction box	●	●	●	●	●	●
6	Remote mount with CF3M stainless steel junction box on the stand (except RU010M, RU015M, RV002M-RU010M, RU010H, RU015H)	●	●		●	●	

Table 6 (Continued)

Option Code	Option Description	Applicability					
		RUXXXM	RVXXXM	REXXXM	RSXXXM	RUXXXH	REXXXH
Code XI	**Process Temperature Version**						
CT	Cryogenic temperature version (–196 to 150 °C)	●					
ST	Standard temperature version (–50 to 150 °C)	●	●	●	●	●	●
ET	Extended temperature version (–50 to 240 °C) – except RV002M-RU010M	●	●		●	●	
HT	High temperature version (–50 to 350 °C) – except RU010M, RU015M, RU150M, RU010H, RU015H	●				●	
Code XII	**Hazardous Location Certifications**						
OL	No (general industrial version)	●	●	●	●	●	●
EX	Explosion-proof version 0Ex ia IIC T6...T1 Ga X, Ex tb IIIC T80°C...T450°C Db X	●	●	●	●	●	●
Code XIII	**Accuracy**						
Z	RU sensor: liquid mass flow measurement accuracy ±0.1% and liquid density measurement accuracy ±0.5 kg/m^3 (for DN 10 mm ±1 kg/m^3, DN 1 mm ±2 kg/m^3); RV sensor: liquid mass flow measurement accuracy ±0.1% and liquid density measurement accuracy ±1 kg/m^3 (for DN 2-10 mm ±2 kg/m^3); RE sensor: liquid mass flow measurement accuracy ±0.2% and liquid density measurement accuracy ±2 kg/m^3; RS sensor: liquid mass flow measurement accuracy ±0.1% and density measurement accuracy ±0.5 kg/m^3	●	●	●	●	●	●
Code XIII	**Accuracy** (Continued)						
A	liquid mass flow measurement accuracy ±0.15% and liquid density measurement accuracy ±2 kg/m^3;			●			●
Y	RS, RU, RV sensors: gas mass flow measurement accuracy ±0.5%; RE sensor: gas mass flow measurement accuracy ±0.75 %	●	●	●	●		
Code XIV	**Process Connection**						
XXX	See Note 4	●	●	●	●	●	●
999	Non-standard flange	●	●	●	●	●	●
Code XV	**Housing Options**						
A	316L stainless steel sensor housing	●	●	●	●	●	●
F	304 stainless steel sensor housing	●	●	●	●	●	●
C	304 stainless steel sensor housing with anti-corrosion coating	●	●	●	●	●	●
Code XVI	**Remote Mount Cable**						
D000	Integral mounting, no cable	●	●	●	●	●	●
D010	Remote mount cable, 10 m	●	●	●	●	●	●
D015	Remote mount cable, 15 m	●	●	●	●	●	●
D020	Remote mount cable, 20 m	●	●	●	●	●	●
D030	Remote mount cable, 30 m	●	●	●	●	●	●
D040	Remote mount cable, 40 m	●	●	●	●	●	●
D050	Remote mount cable, 50 m	●	●	●	●	●	●
D070	Remote mount cable, 70 m	●	●	●	●	●	●
D080	Remote mount cable, 80 m	●	●	●	●	●	●
Code XVII	**Transmitter Version**						
1I	T001 integral	●	●			●	
1A	T001 remote	●	●			●	
2I	T010 integral	●	●	●	●	●	●
3I	T020 integral	●	●	●	●	●	●
4I	T030 integral	●	●	●	●	●	●
4A	T030 remote	-	-	-	-	-	-
Code XVIII	**Factory Options**						
Z	Standard product	●	●	●	●	●	●
X	ETO product	●	●	●	●	●	●

Table 6 (End)

Option Code	Option Description	Applicability					
		RUXXXM	RVXXXM	REXXXM	RSXXXM	RUXXXH	REXXXH
Code XIX	**Other Options**						
DV	Factory setting recording to enable simulation verification	●	●	●	●	●	●
P1	Pressure Test Report	●	●	●	●	●	●
O2	Version for use with oxygen (includes degreasing procedure)	●	●	●	●		
Q4	Calibration Report	●	●	●	●	●	●
BL	Version according to the document requirements for the Republic of Belarus	●	●	●	●	●	●
PV	Primary verification with a mark in the Technical Data Sheet and a verification record in Arshin Federal State Information System	●	●	●	●	●	●
BV	Primary verification for the Republic of Belarus with a mark in the Technical Data Sheet	●	●	●	●	●	●
QM	Verification Certificate	●	●	●	●	●	●
QP	Verification Report	●	●	●	●	●	●

Notes
1. Mounting part kit is supplied under a separate order. Please contact the manufacturer's Customer Support for additional information.
2. Cable entries are supplied under a separate order. Please contact the manufacturer's Customer Support for additional information.
3. D000 remote mount cable is available only with integral mount transmitter (code 1 and 2). D010-D080 remote mount cables are available only with remote mount transmitter (code 3 and 4).
4. Process connection codes for each sensor size are given in Tables 7-12.

Process Connection Codes for RUXXXM Sensors

Table 7

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
080	Stainless steel 1/8 NPT-M fitting	●									
081	Stainless steel 1/4 NPT-M fitting	●									
103	Weld neck flange, DN10, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel		●								
104	Weld neck flange, DN10, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel		●								
105	Weld neck flange, DN10, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel		●								
106	Weld neck flange, DN10, PN16, EN 1092-1, Type F (recess), 316L stainless steel		●								
107	Weld neck flange, DN10, PN40, EN 1092-1, Type F (recess), 316L stainless steel		●								
108	Weld neck flange, DN10, PN100, EN 1092-1, Type F (recess), 316L stainless steel		●								
109	Weld neck flange, DN10, PN16, EN 1092-1, Type D (groove), 316L stainless steel		●								
110	Weld neck flange, DN10, PN40, EN 1092-1, Type D (groove), 316L stainless steel		●								
111	Weld neck flange, DN10, PN100, EN 1092-1, Type D (groove), 316L stainless steel		●								
103	Weld neck flange, DN10, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel		●								
123	Weld neck flange, DN15, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel		●	●							
124	Weld neck flange, DN15, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel		●	●							
125	Weld neck flange, DN15, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel		●	●							
126	Weld neck flange, DN15, PN16, EN 1092-1, Type F (recess), 316L stainless steel		●	●							

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
127	Weld neck flange, DN15, PN40, EN 1092-1, Type F (recess), 316L stainless steel		●	●							
128	Weld neck flange, DN15, PN100, EN 1092-1, Type F (recess), 316L stainless steel		●	●							
129	Weld neck flange, DN15, PN16, EN 1092-1, Type D (groove), 316L stainless steel		●	●							
130	Weld neck flange, DN15, PN40, EN 1092-1, Type D (groove), 316L stainless steel		●	●							
131	Weld neck flange, DN15, PN100, EN 1092-1, Type D (groove), 316L stainless steel		●	●							
133	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel		●	●							
134	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel		●	●							
135	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel		●	●							
136	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel		●	●							
137	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel		●	●							
139	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel		●	●							
140	Tri-Clamp fitting, ASME BPE, 0.5 in, stainless steel		●	●							
141	Swagelok compatible fitting #4, stainless steel, 0.25 in female		●	●							
142	Swagelok compatible fitting #8, stainless steel, 0.5 in female		●	●							
143	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●	●							
144	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●	●							
145	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●	●							
146	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●	●							
147	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●	●							
148	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●	●							
149	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●	●							
150	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●	●							
151	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●	●							
153	Weld neck flange, DN15, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel		●	●							
154	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel		●	●							
155	Weld neck flange, DN25, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel			●	●						
156	Weld neck flange, DN25, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel			●	●						
157	Weld neck flange, DN25, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel			●	●						
158	Weld neck flange, DN25, PN16, EN 1092-1, Type F (recess), 316L stainless steel			●	●						

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
159	Weld neck flange, DN25, PN40, EN 1092-1, Type F (recess), 316L stainless steel			●	●						
160	Weld neck flange, DN25, PN100, EN 1092-1, Type F (recess), 316L stainless steel			●	●						
161	Weld neck flange, DN25, PN16, EN 1092-1, Type D (groove), 316L stainless steel			●	●						
162	Weld neck flange, DN25, PN40, EN 1092-1, Type D (groove), 316L stainless steel			●	●						
163	Weld neck flange, DN25, PN100, EN 1092-1, Type D (groove), 316L stainless steel			●	●						
165	Weld neck flange, 1 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel			●	●						
166	Weld neck flange, 1 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel			●	●						
167	Weld neck flange, 1 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel			●	●						
168	Weld neck flange, 1 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●	●						
169	Weld neck flange, 1 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●	●						
171	Weld neck flange, 1 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●	●						
172	Tri-Clamp fitting, ASME BPE, 1 in, stainless steel			●	●						
173	Swagelok compatible fitting #12, stainless steel, 0.5 in female			●	●						
174	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●	●						
175	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●	●						
176	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●	●						
177	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●	●						
178	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●	●						
179	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●	●						
180	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●	●						
181	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●	●						
182	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●	●						
184	Weld neck flange, DN25, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel			●	●						
185	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel			●	●						
186	Weld neck flange, DN40, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel				●	●					
187	Weld neck flange, DN40, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel				●	●					
188	Weld neck flange, DN40, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel				●	●					
189	Weld neck flange, DN40, PN16, EN 1092-1, Type F (recess), 316L stainless steel				●	●					
190	Weld neck flange, DN40, PN40, EN 1092-1, Type F (recess), 316L stainless steel				●	●					

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
191	Weld neck flange, DN40, PN100, EN 1092-1, Type F (recess), 316L stainless steel				●	●					
192	Weld neck flange, DN40, PN16, EN 1092-1, Type D (groove), 316L stainless steel				●	●					
193	Weld neck flange, DN40, PN40, EN 1092-1, Type D (groove), 316L stainless steel				●	●					
194	Weld neck flange, DN40, PN100, EN 1092-1, Type D (groove), 316L stainless steel				●	●					
196	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel				●	●					
197	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel				●	●					
198	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel				●	●					
199	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●	●					
200	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●	●					
202	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●	●					
203	Tri-Clamp fitting, ASME BPE, 1.5 in, stainless steel				●	●					
204	Swagelok compatible fitting #16, stainless steel, 0.5 in female				●	●					
205	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●	●					
206	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●	●					
207	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●	●					
208	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●	●					
209	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●	●					
210	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●	●					
211	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●	●					
212	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●	●					
213	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●	●					
215	Weld neck flange, DN40, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel				●	●					
216	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel				●	●					
217	Weld neck flange, DN50, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	●				
218	Weld neck flange, DN50, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	●				
219	Weld neck flange, DN50, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel					●	●				
220	Weld neck flange, DN50, PN16, EN 1092-1, Type F (recess), 316L stainless steel					●	●				
221	Weld neck flange, DN50, PN40, EN 1092-1, Type F (recess), 316L stainless steel					●	●				

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
222	Weld neck flange, DN50, PN100, EN 1092-1, Type F (recess), 316L stainless steel					●	●				
223	Weld neck flange, DN50, PN16, EN 1092-1, Type D (groove), 316L stainless steel					●	●				
224	Weld neck flange, DN50, PN40, EN 1092-1, Type D (groove), 316L stainless steel					●	●				
225	Weld neck flange, DN50, PN100, EN 1092-1, Type D (groove), 316L stainless steel					●	●				
227	Weld neck flange, 2 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●				
228	Weld neck flange, 2 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●				
229	Weld neck flange, 2 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●				
230	Weld neck flange, 2 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●				
231	Weld neck flange, 2 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●				
233	Weld neck flange, 2 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●				
234	Tri-Clamp fitting, ASME BPE, 2 in, stainless steel					●	●				
235	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●				
236	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●				
237	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●				
238	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●				
239	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●				
240	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●				
241	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●				
242	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●				
243	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●				
245	Weld neck flange, DN50, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	●				
246	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	●				
247	Weld neck flange, DN80, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel						●	●			
248	Weld neck flange, DN80, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel						●	●			
249	Weld neck flange, DN80, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel						●	●			
250	Weld neck flange, DN80, PN16, EN 1092-1, Type F (recess), 316L stainless steel						●	●			
251	Weld neck flange, DN80, PN40, EN 1092-1, Type F (recess), 316L stainless steel						●	●			
252	Weld neck flange, DN80, PN63, EN 1092-1, Type F (recess), 316L stainless steel						●	●			

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
253	Weld neck flange, DN80, PN100, EN 1092-1, Type F (recess), 316L stainless steel						●	●			
254	Weld neck flange, DN80, PN16, EN 1092-1, Type D (groove), 316L stainless steel						●	●			
255	Weld neck flange, DN80, PN40, EN 1092-1, Type D (groove), 316L stainless steel						●	●			
256	Weld neck flange, DN80, PN63, EN 1092-1, Type D (groove), 316L stainless steel						●	●			
257	Weld neck flange, DN80, PN100, EN 1092-1, Type D (groove), 316L stainless steel						●	●			
259	Weld neck flange, 3 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●			
260	Weld neck flange, 3 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●			
261	Weld neck flange, 3 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●			
262	Weld neck flange, 3 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●			
263	Weld neck flange, 3 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●			
265	Weld neck flange, 3 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●			
266	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●			
267	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●			
268	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●			
269	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●			
270	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●			
271	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●			
272	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●			
273	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●			
274	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●			
275	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●			
276	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●			
279	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●	●			
280	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●	●			
281	Weld neck flange, DN100, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel							●	●		
282	Weld neck flange, DN100, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel							●	●		
283	Weld neck flange, DN100, PN16, EN 1092-1, Type F (recess), 316L stainless steel							●	●		
284	Weld neck flange, DN100, PN40, EN 1092-1, Type F (recess), 316L stainless steel							●	●		

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
285	Weld neck flange, DN100, PN63, EN 1092-1, Type F (recess), 316L stainless steel							●	●		
286	Weld neck flange, DN100, PN16, EN 1092-1, Type D (groove), 316L stainless steel							●	●		
287	Weld neck flange, DN100, PN40, EN 1092-1, Type D (groove), 316L stainless steel							●	●		
288	Weld neck flange, DN100, PN63, EN 1092-1, Type D (groove), 316L stainless steel							●	●		
290	Weld neck flange, 4 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel							●	●		
291	Weld neck flange, 4 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel							●	●		
292	Weld neck flange, 4 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel							●	●		
293	Weld neck flange, 4 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel							●	●		
295	Weld neck flange, DN100, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel							●	●		
296	Weld neck flange, DN100, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel							●	●		
297	Weld neck flange, DN100, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel							●	●		
298	Weld neck flange, DN100, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel							●	●		
299	Weld neck flange, DN100, PN63, GOST 33259 (range 1), Type F (recess), 316L stainless steel							●	●		
300	Weld neck flange, DN100, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel							●	●		
301	Weld neck flange, DN100, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel							●	●		
302	Weld neck flange, DN100, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel							●	●		
305	Weld neck flange, DN100, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel							●	●		
306	Weld neck flange, DN150, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel								●	●	
307	Weld neck flange, DN150, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel								●	●	
308	Weld neck flange, DN150, PN16, EN 1092-1, Type F (recess), 316L stainless steel								●	●	
309	Weld neck flange, DN150, PN40, EN 1092-1, Type F (recess), 316L stainless steel								●	●	
310	Weld neck flange, DN150, PN63, EN 1092-1, Type F (recess), 316L stainless steel								●	●	
311	Weld neck flange, DN150, PN16, EN 1092-1, Type D (groove), 316L stainless steel								●	●	
312	Weld neck flange, DN150, PN40, EN 1092-1, Type D (groove), 316L stainless steel								●	●	
313	Weld neck flange, DN150, PN63, EN 1092-1, Type D (groove), 316L stainless steel								●	●	
315	Weld neck flange, 6 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel								●	●	
316	Weld neck flange, 6 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel								●	●	
317	Weld neck flange, 6 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel								●	●	

Table 7 (Continued)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
318	Weld neck flange, 6 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel								●	●	
320	Weld neck flange, DN150, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel								●	●	
321	Weld neck flange, DN150, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel								●	●	
322	Weld neck flange, DN150, PN63, GOST 33259 (range 1), Type B (raised face), 316L stainless steel								●	●	
323	Weld neck flange, DN150, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel								●	●	
324	Weld neck flange, DN150, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel								●	●	
325	Weld neck flange, DN150, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel								●	●	
326	Weld neck flange, DN150, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel								●	●	
327	Weld neck flange, DN150, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel								●	●	
330	Weld neck flange, DN150, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel								●	●	
331	Weld neck flange, DN200, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel									●	●
332	Weld neck flange, DN200, PN25, EN 1092-1, Type B1 (raised face), 316L stainless steel									●	●
333	Weld neck flange, DN200, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel									●	●
334	Weld neck flange, DN200, PN16, EN 1092-1, Type F (recess), 316L stainless steel									●	●
335	Weld neck flange, DN200, PN25, EN 1092-1, Type F (recess), 316L stainless steel									●	●
336	Weld neck flange, DN200, PN40, EN 1092-1, Type F (recess), 316L stainless steel									●	●
337	Weld neck flange, DN200, PN63, EN 1092-1, Type F (recess), 316L stainless steel									●	●
338	Weld neck flange, DN200, PN16, EN 1092-1, Type D (groove), 316L stainless steel									●	●
339	Weld neck flange, DN200, PN25, EN 1092-1, Type D (groove), 316L stainless steel									●	●
340	Weld neck flange, DN200, PN40, EN 1092-1, Type D (groove), 316L stainless steel									●	●
341	Weld neck flange, DN200, PN63, EN 1092-1, Type D (groove), 316L stainless steel									●	●
343	Weld neck flange, 8 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel									●	●
344	Weld neck flange, 8 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel									●	●
345	Weld neck flange, 8 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel									●	●
346	Weld neck flange, 8 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel									●	●
347	Lap joint flange, 8 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel									●	●
348	Weld neck flange, DN200, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel									●	●
349	Weld neck flange, DN200, PN25, GOST 33259 (range 1), Type B (raised face), 316L stainless steel									●	●

Table 7 (End)

Code	Process Connection	Sensor Size									
		RU001M	RU010M	RU015M	RU025M	RU040M	RU050M	RU080M	RU100M	RU150M	RU200M
350	Weld neck flange, DN200, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel									●	●
351	Weld neck flange, DN200, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel									●	●
352	Weld neck flange, DN200, PN25, GOST 33259 (range 1), Type F (recess), 316L stainless steel									●	●
353	Weld neck flange, DN200, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel									●	●
354	Weld neck flange, DN200, PN63, GOST 33259 (range 1), Type F (recess), 316L stainless steel									●	●
355	Weld neck flange, DN200, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel									●	●
356	Weld neck flange, DN200, PN25, GOST 33259 (range 1), Type D (groove), 316L stainless steel									●	●
357	Weld neck flange, DN200, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel									●	●
358	Weld neck flange, DN200, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel									●	●
361	1 Weld neck flange, DN200, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel									●	●

Process Connection Codes for RVXXXM Sensors

Table 8

Code	Process Connection	Sensor Size						
		RV002M	RV004M	RV005M	RV010M	RV015M	RV025M	RV040M
098	Stainless steel ZG 3/8” fitting	●	●					
099	Stainless steel 1/8 NPT-F fitting	●	●					
100	Stainless steel 1/4 NPT-F fitting	●	●					
101	Stainless steel 1/2 NPT-F fitting	●	●	●	●			
102	Stainless steel 3/4 NPT-F fitting	●	●	●	●			
103	Weld neck flange, DN10, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel	●	●	●	●			
104	Weld neck flange, DN10, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel	●	●	●	●			
105	Weld neck flange, DN10, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel	●	●	●	●			
106	Weld neck flange, DN10, PN16, EN 1092-1, Type F (recess), 316L stainless steel	●	●	●	●			
107	Weld neck flange, DN10, PN40, EN 1092-1, Type F (recess), 316L stainless steel	●	●	●	●			
108	Weld neck flange, DN10, PN100, EN 1092-1, Type F (recess), 316L stainless steel	●	●	●	●			
109	Weld neck flange, DN10, PN16, EN 1092-1, Type D (groove), 316L stainless steel	●	●	●	●			
110	Weld neck flange, DN10, PN40, EN 1092-1, Type D (groove), 316L stainless steel	●	●	●	●			
111	Weld neck flange, DN10, PN100, EN 1092-1, Type D (groove), 316L stainless steel	●	●	●	●			
123	Weld neck flange, DN15, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel	●	●	●	●	●		
124	Weld neck flange, DN15, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel	●	●	●	●	●		
125	Weld neck flange, DN15, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel	●	●	●	●	●		
126	Weld neck flange, DN15, PN16, EN 1092-1, Type F (recess), 316L stainless steel	●	●	●	●	●		
127	Weld neck flange, DN15, PN40, EN 1092-1, Type F (recess), 316L stainless steel	●	●	●	●	●		

Table 8 (Continued)

Code	Process Connection	Sensor Size						
		RV002M	RV004M	RV005M	RV010M	RV015M	RV025M	RV040M
128	Weld neck flange, DN15, PN100, EN 1092-1, Type F (recess), 316L stainless steel	●	●	●	●	●		
129	Weld neck flange, DN15, PN16, EN 1092-1, Type D (groove), 316L stainless steel	●	●	●	●	●		
130	Weld neck flange, DN15, PN40, EN 1092-1, Type D (groove), 316L stainless steel	●	●	●	●	●		
131	Weld neck flange, DN15, PN100, EN 1092-1, Type D (groove), 316L stainless steel	●	●	●	●	●		
133	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●	●	●	●		
134	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●	●	●	●		
135	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●	●	●	●		
136	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●	●	●	●		
137	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●	●	●	●		
139	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●	●	●	●		
140	Tri-Clamp fitting, ASME BPE, 0.5 in, stainless steel	●	●	●	●	●		
141	Swagelok compatible fitting #4, stainless steel, 0.25 in female	●	●	●	●	●		
142	Swagelok compatible fitting #8, stainless steel, 0.5 in female	●	●	●	●	●		
143	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel	●	●	●	●	●		
144	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel	●	●	●	●	●		
145	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel	●	●	●	●	●		
146	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel	●	●	●	●	●		
147	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel	●	●	●	●	●		
148	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel	●	●	●	●	●		
149	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel	●	●	●	●	●		
150	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel	●	●	●	●	●		
151	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel	●	●	●	●	●		
153	Weld neck flange, DN15, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel	●	●	●	●	●		
154	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel	●	●	●	●	●		
155	Weld neck flange, DN25, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	●	
156	Weld neck flange, DN25, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	●	
157	Weld neck flange, DN25, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel					●	●	
158	Weld neck flange, DN25, PN16, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
159	Weld neck flange, DN25, PN40, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
160	Weld neck flange, DN25, PN100, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
161	Weld neck flange, DN25, PN16, EN 1092-1, Type D (groove), 316L stainless steel					●	●	
162	Weld neck flange, DN25, PN40, EN 1092-1, Type D (groove), 316L stainless steel					●	●	

Table 8 (Continued)

Code	Process Connection	Sensor Size						
		RV002M	RV004M	RV005M	RV010M	RV015M	RV025M	RV040M
163	Weld neck flange, DN25, PN100, EN 1092-1, Type D (groove), 316L stainless steel					●	●	
165	Weld neck flange, 1 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●	
166	Weld neck flange, 1 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●	
167	Weld neck flange, 1 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●	
168	Weld neck flange, 1 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●	
169	Weld neck flange, 1 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●	
171	Weld neck flange, 1 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●	
172	Tri-Clamp fitting, ASME BPE, 1 in, stainless steel					●	●	
173	Swagelok compatible fitting #12, stainless steel, 0.5 in female					●	●	
174	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●	
175	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●	
176	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●	
177	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
178	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
179	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
180	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
181	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
182	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
184	Weld neck flange, DN25, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	●	
185	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	●	
186	Weld neck flange, DN40, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel						●	●
187	Weld neck flange, DN40, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel						●	●
188	Weld neck flange, DN40, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel						●	●
189	Weld neck flange, DN40, PN16, EN 1092-1, Type F (recess), 316L stainless steel						●	●
190	Weld neck flange, DN40, PN40, EN 1092-1, Type F (recess), 316L stainless steel						●	●
191	Weld neck flange, DN40, PN100, EN 1092-1, Type F (recess), 316L stainless steel						●	●
192	Weld neck flange, DN40, PN16, EN 1092-1, Type D (groove), 316L stainless steel						●	●
193	Weld neck flange, DN40, PN40, EN 1092-1, Type D (groove), 316L stainless steel						●	●
194	Weld neck flange, DN40, PN100, EN 1092-1, Type D (groove), 316L stainless steel						●	●
196	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●

Table 8 (End)

Code	Process Connection	Sensor Size						
		RV002M	RV004M	RV005M	RV010M	RV015M	RV025M	RV040M
197	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●
198	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●
199	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●
200	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●
202	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●
203	Tri-Clamp fitting, ASME BPE, 1.5 in, stainless steel						●	●
204	Swagelok compatible fitting #16, stainless steel, 0.5 in female						●	●
205	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●
206	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●
207	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●
208	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●
209	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●
210	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●
211	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●
212	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●
213	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●
215	Weld neck flange, DN40, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●	●
216	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●	●

Process Connection Codes for REXXXM Sensors

Table 9

Code	Process Connection	Sensor Size					
		RE010M	RE015M	RE025M	RE040M	RE050M	RE080M
103	Weld neck flange, DN10, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel	●					
104	Weld neck flange, DN10, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel	●					
105	Weld neck flange, DN10, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel	●					
106	Weld neck flange, DN10, PN16, EN 1092-1, Type F (recess), 316L stainless steel	●					
107	Weld neck flange, DN10, PN40, EN 1092-1, Type F (recess), 316L stainless steel	●					
108	Weld neck flange, DN10, PN100, EN 1092-1, Type F (recess), 316L stainless steel	●					
110	Weld neck flange, DN10, PN40, EN 1092-1, Type D (groove), 316L stainless steel	●					
111	Weld neck flange, DN10, PN100, EN 1092-1, Type D (groove), 316L stainless steel	●					
123	Weld neck flange, DN15, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel		●				

Table 9 (Continued)

Code	Process Connection	Sensor Size					
		RE010M	RE015M	RE025M	RE040M	RE050M	RE080M
124	Weld neck flange, DN15, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel		●				
125	Weld neck flange, DN15, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel		●				
126	Weld neck flange, DN15, PN16, EN 1092-1, Type F (recess), 316L stainless steel		●				
127	Weld neck flange, DN15, PN40, EN 1092-1, Type F (recess), 316L stainless steel		●				
128	Weld neck flange, DN15, PN100, EN 1092-1, Type F (recess), 316L stainless steel		●				
129	Weld neck flange, DN15, PN16, EN 1092-1, Type D (groove), 316L stainless steel		●				
130	Weld neck flange, DN15, PN40, EN 1092-1, Type D (groove), 316L stainless steel		●				
131	Weld neck flange, DN15, PN100, EN 1092-1, Type D (groove), 316L stainless steel		●				
133	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●				
134	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●				
135	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●				
136	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●				
137	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●				
139	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●				
140	Tri-Clamp fitting, ASME BPE, 0.5 in, stainless steel	●	●				
141	Swagelok compatible fitting #4, stainless steel, 0.25 in female	●	●				
142	Swagelok compatible fitting #8, stainless steel, 0.5 in female		●				
143	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●				
144	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●				
145	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●				
146	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●				
147	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●				
148	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●				
149	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●				
150	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●				
151	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●				
153	Weld neck flange, DN15, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel		●				
154	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel		●				
155	Weld neck flange, DN25, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel			●			
156	Weld neck flange, DN25, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel			●			
157	Weld neck flange, DN25, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel			●			
158	Weld neck flange, DN25, PN16, EN 1092-1, Type F (recess), 316L stainless steel			●			

Table 9 (Continued)

Code	Process Connection	Sensor Size					
		RE010M	RE015M	RE025M	RE040M	RE050M	RE080M
159	Weld neck flange, DN25, PN40, EN 1092-1, Type F (recess), 316L stainless steel			●			
160	Weld neck flange, DN25, PN100, EN 1092-1, Type F (recess), 316L stainless steel			●			
161	Weld neck flange, DN25, PN16, EN 1092-1, Type D (groove), 316L stainless steel			●			
162	Weld neck flange, DN25, PN40, EN 1092-1, Type D (groove), 316L stainless steel			●			
163	Weld neck flange, DN25, PN100, EN 1092-1, Type D (groove), 316L stainless steel			●			
165	Weld neck flange, 1 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel			●			
166	Weld neck flange, 1 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel			●			
167	Weld neck flange, 1 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel			●			
168	Weld neck flange, 1 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●			
169	Weld neck flange, 1 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●			
171	Weld neck flange, 1 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●			
172	Tri-Clamp fitting, ASME BPE, 1 in, stainless steel			●			
173	Swagelok compatible fitting #12, stainless steel, 0.5 in female			●			
174	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●			
175	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●			
176	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●			
177	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●			
178	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●			
179	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●			
180	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●			
181	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●			
182	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●			
183	Flat loose pipe collar flange, DN25, PN25, GOST 33259 (range 1), Type 03, 304 stainless steel			●			
184	Weld neck flange, DN25, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel			●			
185	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel			●			
186	Weld neck flange, DN40, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel				●		
187	Weld neck flange, DN40, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel				●		
188	Weld neck flange, DN40, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel				●		
189	Weld neck flange, DN40, PN16, EN 1092-1, Type F (recess), 316L stainless steel				●		
190	Weld neck flange, DN40, PN40, EN 1092-1, Type F (recess), 316L stainless steel				●		
191	Weld neck flange, DN40, PN100, EN 1092-1, Type F (recess), 316L stainless steel				●		
192	Weld neck flange, DN40, PN16, EN 1092-1, Type D (groove), 316L stainless steel				●		

Table 9 (Continued)

Code	Process Connection	Sensor Size					
		RE010M	RE015M	RE025M	RE040M	RE050M	RE080M
193	Weld neck flange, DN40, PN40, EN 1092-1, Type D (groove), 316L stainless steel				●		
194	Weld neck flange, DN40, PN100, EN 1092-1, Type D (groove), 316L stainless steel				●		
196	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel				●		
197	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel				●		
198	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel				●		
199	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●		
200	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●		
202	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●		
203	Tri-Clamp fitting, ASME BPE, 1.5 in, stainless steel				●		
204	Swagelok compatible fitting #16, stainless steel, 0.5 in female				●		
205	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●		
206	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●		
207	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●		
208	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●		
209	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●		
210	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●		
211	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●		
212	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●		
213	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●		
215	Weld neck flange, DN40, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel				●		
216	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel				●		
217	Weld neck flange, DN50, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	
218	Weld neck flange, DN50, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	
219	Weld neck flange, DN50, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel					●	
220	Weld neck flange, DN50, PN16, EN 1092-1, Type F (recess), 316L stainless steel					●	
221	Weld neck flange, DN50, PN40, EN 1092-1, Type F (recess), 316L stainless steel					●	
222	Weld neck flange, DN50, PN100, EN 1092-1, Type F (recess), 316L stainless steel					●	
223	Weld neck flange, DN50, PN16, EN 1092-1, Type D (groove), 316L stainless steel					●	
224	Weld neck flange, DN50, PN40, EN 1092-1, Type D (groove), 316L stainless steel					●	
225	Weld neck flange, DN50, PN100, EN 1092-1, Type D (groove), 316L stainless steel					●	
227	Weld neck flange, 2 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel					●	
228	Weld neck flange, 2 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel					●	

Table 9 (Continued)

Code	Process Connection	Sensor Size					
		RE010M	RE015M	RE025M	RE040M	RE050M	RE080M
229	Weld neck flange, 2 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel					●	
230	Weld neck flange, 2 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	
231	Weld neck flange, 2 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	
233	Weld neck flange, 2 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	
234	Tri-Clamp fitting, ASME BPE, 2 in, stainless steel					●	
235	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	
236	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	
237	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	
238	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	
239	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	
240	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	
241	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	
242	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	
243	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	
245	Weld neck flange, DN50, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	
246	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	
247	Weld neck flange, DN80, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel						●
248	Weld neck flange, DN80, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel						●
249	Weld neck flange, DN80, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel						●
250	Weld neck flange, DN80, PN16, EN 1092-1, Type F (recess), 316L stainless steel						●
251	Weld neck flange, DN80, PN40, EN 1092-1, Type F (recess), 316L stainless steel						●
252	Weld neck flange, DN80, PN63, EN 1092-1, Type F (recess), 316L stainless steel						●
253	Weld neck flange, DN80, PN100, EN 1092-1, Type F (recess), 316L stainless steel						●
254	Weld neck flange, DN80, PN16, EN 1092-1, Type D (groove), 316L stainless steel						●
255	Weld neck flange, DN80, PN40, EN 1092-1, Type D (groove), 316L stainless steel						●
256	Weld neck flange, DN80, PN63, EN 1092-1, Type D (groove), 316L stainless steel						●
257	Weld neck flange, DN80, PN100, EN 1092-1, Type D (groove), 316L stainless steel						●
259	Weld neck flange, 3 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel						●
260	Weld neck flange, 3 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel						●
261	Weld neck flange, 3 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel						●
262	Weld neck flange, 3 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●

Table 9 (End)

Code	Process Connection	Sensor Size					
		RE010M	RE015M	RE025M	RE040M	RE050M	RE080M
263	Weld neck flange, 3 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●
265	Weld neck flange, 3 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●
266	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●
267	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●
268	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●
269	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●
270	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●
271	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●
272	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●
273	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●
274	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●
275	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●
276	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●
279	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●
280	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●

Process Connection Codes for RSXXXM Sensors

Table 10

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
103	Weld neck flange, DN10, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel	●						
104	Weld neck flange, DN10, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel	●						
105	Weld neck flange, DN10, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel	●						
106	Weld neck flange, DN10, PN16, EN 1092-1, Type F (recess), 316L stainless steel	●						
107	Weld neck flange, DN10, PN40, EN 1092-1, Type F (recess), 316L stainless steel	●						
108	Weld neck flange, DN10, PN100, EN 1092-1, Type F (recess), 316L stainless steel	●						
109	Weld neck flange, DN10, PN16, EN 1092-1, Type D (groove), 316L stainless steel	●						
110	Weld neck flange, DN10, PN40, EN 1092-1, Type D (groove), 316L stainless steel	●						
111	Weld neck flange, DN10, PN100, EN 1092-1, Type D (groove), 316L stainless steel	●						
123	Weld neck flange, DN15, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel	●	●					
124	Weld neck flange, DN15, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel	●	●					

Table 10 (Continued)

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
125	Weld neck flange, DN15, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel	●	●					
126	Weld neck flange, DN15, PN16, EN 1092-1, Type F (recess), 316L stainless steel	●	●					
127	Weld neck flange, DN15, PN40, EN 1092-1, Type F (recess), 316L stainless steel	●	●					
128	Weld neck flange, DN15, PN100, EN 1092-1, Type F (recess), 316L stainless steel	●	●					
129	Weld neck flange, DN15, PN16, EN 1092-1, Type D (groove), 316L stainless steel	●	●					
130	Weld neck flange, DN15, PN40, EN 1092-1, Type D (groove), 316L stainless steel	●	●					
131	Weld neck flange, DN15, PN100, EN 1092-1, Type D (groove), 316L stainless steel	●	●					
133	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●					
134	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●					
135	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel	●	●					
136	Weld neck flange, 0.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●					
137	Weld neck flange, 0.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●					
139	Weld neck flange, 0.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel	●	●					
140	Tri-Clamp fitting, ASME BPE, 0.5 in, stainless steel	●	●					
141	Swagelok compatible fitting #4, stainless steel, 0.25 in female	●	●					
142	Swagelok compatible fitting #8, stainless steel, 0.5 in female	●	●					
143	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel	●	●					
144	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel	●	●					
145	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel	●	●					
146	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel	●	●					
147	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel	●	●					
148	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel	●	●					
149	Weld neck flange, DN15, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel	●	●					
150	Weld neck flange, DN15, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel	●	●					
151	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel	●	●					
153	Weld neck flange, DN15, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel	●	●					
154	Weld neck flange, DN15, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel	●	●					
155	Weld neck flange, DN25, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel		●	●				
156	Weld neck flange, DN25, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel		●	●				
157	Weld neck flange, DN25, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel		●	●				
158	Weld neck flange, DN25, PN16, EN 1092-1, Type F (recess), 316L stainless steel		●	●				
159	Weld neck flange, DN25, PN40, EN 1092-1, Type F (recess), 316L stainless steel		●	●				

Table 10 (Continued)

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
160	Weld neck flange, DN25, PN100, EN 1092-1, Type F (recess), 316L stainless steel		●	●				
161	Weld neck flange, DN25, PN16, EN 1092-1, Type D (groove), 316L stainless steel		●	●				
162	Weld neck flange, DN25, PN40, EN 1092-1, Type D (groove), 316L stainless steel		●	●				
163	Weld neck flange, DN25, PN100, EN 1092-1, Type D (groove), 316L stainless steel		●	●				
165	Weld neck flange, 1 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel		●	●				
166	Weld neck flange, 1 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel		●	●				
167	Weld neck flange, 1 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel		●	●				
168	Weld neck flange, 1 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel		●	●				
169	Weld neck flange, 1 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel		●	●				
171	Weld neck flange, 1 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel		●	●				
172	Tri-Clamp fitting, ASME BPE, 1 in, stainless steel		●	●				
173	Swagelok compatible fitting #12, stainless steel, 0.5 in female		●	●				
174	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●	●				
175	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●	●				
176	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel		●	●				
177	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●	●				
178	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●	●				
179	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel		●	●				
180	Weld neck flange, DN25, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●	●				
181	Weld neck flange, DN25, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●	●				
182	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel		●	●				
184	Weld neck flange, DN25, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel		●	●				
185	Weld neck flange, DN25, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel		●	●				
186	Weld neck flange, DN40, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel			●	●			
187	Weld neck flange, DN40, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel			●	●			
188	Weld neck flange, DN40, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel			●	●			
189	Weld neck flange, DN40, PN16, EN 1092-1, Type F (recess), 316L stainless steel			●	●			
190	Weld neck flange, DN40, PN40, EN 1092-1, Type F (recess), 316L stainless steel			●	●			
191	Weld neck flange, DN40, PN100, EN 1092-1, Type F (recess), 316L stainless steel			●	●			
192	Weld neck flange, DN40, PN16, EN 1092-1, Type D (groove), 316L stainless steel			●	●			
193	Weld neck flange, DN40, PN40, EN 1092-1, Type D (groove), 316L stainless steel			●	●			
194	Weld neck flange, DN40, PN100, EN 1092-1, Type D (groove), 316L stainless steel			●	●			

Table 10 (Continued)

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
196	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel			●	●			
197	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel			●	●			
198	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel			●	●			
199	Weld neck flange, 1.5 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●	●			
200	Weld neck flange, 1.5 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●	●			
202	Weld neck flange, 1.5 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel			●	●			
203	Tri-Clamp fitting, ASME BPE, 1.5 in, stainless steel			●	●			
204	Swagelok compatible fitting #16, stainless steel, 0.5 in female			●	●			
205	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●	●			
206	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●	●			
207	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel			●	●			
208	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●	●			
209	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●	●			
210	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel			●	●			
211	Weld neck flange, DN40, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●	●			
212	Weld neck flange, DN40, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●	●			
213	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel			●	●			
215	Weld neck flange, DN40, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel			●	●			
216	Weld neck flange, DN40, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel			●	●			
217	Weld neck flange, DN50, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel				●	●		
218	Weld neck flange, DN50, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel				●	●		
219	Weld neck flange, DN50, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel				●	●		
220	Weld neck flange, DN50, PN16, EN 1092-1, Type F (recess), 316L stainless steel				●	●		
221	Weld neck flange, DN50, PN40, EN 1092-1, Type F (recess), 316L stainless steel				●	●		
222	Weld neck flange, DN50, PN100, EN 1092-1, Type F (recess), 316L stainless steel				●	●		
223	Weld neck flange, DN50, PN16, EN 1092-1, Type D (groove), 316L stainless steel				●	●		
224	Weld neck flange, DN50, PN40, EN 1092-1, Type D (groove), 316L stainless steel				●	●		
225	Weld neck flange, DN50, PN100, EN 1092-1, Type D (groove), 316L stainless steel				●	●		
227	Weld neck flange, 2 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel				●	●		
228	Weld neck flange, 2 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel				●	●		
229	Weld neck flange, 2 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel				●	●		

Table 10 (Continued)

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
230	Weld neck flange, 2 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●	●		
231	Weld neck flange, 2 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●	●		
233	Weld neck flange, 2 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel				●	●		
234	Tri-Clamp fitting, ASME BPE, 2 in, stainless steel				●	●		
235	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●	●		
236	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●	●		
237	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel				●	●		
238	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●	●		
239	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●	●		
240	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel				●	●		
241	Weld neck flange, DN50, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●	●		
242	Weld neck flange, DN50, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●	●		
243	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel				●	●		
245	Weld neck flange, DN50, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel				●	●		
246	Weld neck flange, DN50, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel				●	●		
247	Weld neck flange, DN80, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	●	
248	Weld neck flange, DN80, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel					●	●	
249	Weld neck flange, DN80, PN100, EN 1092-1, Type B2 (raised face), 316L stainless steel					●	●	
250	Weld neck flange, DN80, PN16, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
251	Weld neck flange, DN80, PN40, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
252	Weld neck flange, DN80, PN63, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
253	Weld neck flange, DN80, PN100, EN 1092-1, Type F (recess), 316L stainless steel					●	●	
254	Weld neck flange, DN80, PN16, EN 1092-1, Type D (groove), 316L stainless steel					●	●	
255	Weld neck flange, DN80, PN40, EN 1092-1, Type D (groove), 316L stainless steel					●	●	
256	Weld neck flange, DN80, PN63, EN 1092-1, Type D (groove), 316L stainless steel					●	●	
257	Weld neck flange, DN80, PN100, EN 1092-1, Type D (groove), 316L stainless steel					●	●	
259	Weld neck flange, 3 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●	
260	Weld neck flange, 3 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●	
261	Weld neck flange, 3 in, CL600, ASME B16.5, Type RF (raised face), 316L stainless steel					●	●	
262	Weld neck flange, 3 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●	
263	Weld neck flange, 3 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●	

Table 10 (Continued)

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
265	Weld neck flange, 3 in, CL600, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel					●	●	
266	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●	
267	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●	
268	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type B (raised face), 316L stainless steel					●	●	
269	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
270	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
271	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
272	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type F (recess), 316L stainless steel					●	●	
273	Weld neck flange, DN80, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
274	Weld neck flange, DN80, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
275	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
276	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type D (groove), 316L stainless steel					●	●	
279	Weld neck flange, DN80, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	●	
280	Weld neck flange, DN80, PN100, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel					●	●	
281	Weld neck flange, DN100, PN16, EN 1092-1, Type B1 (raised face), 316L stainless steel						●	●
282	Weld neck flange, DN100, PN40, EN 1092-1, Type B1 (raised face), 316L stainless steel						●	●
283	Weld neck flange, DN100, PN16, EN 1092-1, Type F (recess), 316L stainless steel						●	●
284	Weld neck flange, DN100, PN40, EN 1092-1, Type F (recess), 316L stainless steel						●	●
285	Weld neck flange, DN100, PN63, EN 1092-1, Type F (recess), 316L stainless steel						●	●
286	Weld neck flange, DN100, PN16, EN 1092-1, Type D (groove), 316L stainless steel						●	●
287	Weld neck flange, DN100, PN40, EN 1092-1, Type D (groove), 316L stainless steel						●	●
288	Weld neck flange, DN100, PN63, EN 1092-1, Type D (groove), 316L stainless steel						●	●
290	Weld neck flange, 4 in, CL150, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●
291	Weld neck flange, 4 in, CL300, ASME B16.5, Type RF (raised face), 316L stainless steel						●	●
292	Weld neck flange, 4 in, CL150, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●
293	Weld neck flange, 4 in, CL300, ASME B16.5, Type RTJ (ring type joint), 316L stainless steel						●	●
295	Weld neck flange, DN100, PN16, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●
296	Weld neck flange, DN100, PN40, GOST 33259 (range 1), Type B (raised face), 316L stainless steel						●	●
297	Weld neck flange, DN100, PN16, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●

Table 10 (End)

Code	Process Connection	Sensor Size						
		RS010M	RS015M	RS025M	RS040M	RS050M	RS080M	RS100M
298	Weld neck flange, DN100, PN40, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●
299	Weld neck flange, DN100, PN63, GOST 33259 (range 1), Type F (recess), 316L stainless steel						●	●
300	Weld neck flange, DN100, PN16, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●
301	Weld neck flange, DN100, PN40, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●
302	Weld neck flange, DN100, PN63, GOST 33259 (range 1), Type D (groove), 316L stainless steel						●	●
305	Weld neck flange, DN100, PN63, GOST 33259 (range 1), Type J (ring type joint), 316L stainless steel						●	●

Process Connection Codes for RUXXXH Sensors

Table 11

Code	Process Connection	Sensor Size				
		RU010H	RU015H	RU040H	RU050H	RU100H
113	Lap joint flange, DN10, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel	●				
132	Lap joint flange, DN15, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel	●	●			
138	Lap joint flange, 0.5 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel	●	●			
164	Lap joint flange, DN25, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel		●			
170	Lap joint flange, 1 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel		●			
195	Lap joint flange, DN40, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel			●		
201	Lap joint flange, 1.5 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel			●		
226	Lap joint flange, DN50, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel			●	●	
232	Lap joint flange, 2 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel			●	●	
289	Lap joint flange, DN100, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel					●
294	Lap joint flange, 4 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel					●

Process Connection Codes for REXXXH Sensors

Table 12

Code	Process Connection	Sensor Size			
		RE010H	RE015H	RE025H	RE040H
113	Lap joint flange, DN10, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel	●			
132	Lap joint flange, DN15, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel	●	●		
138	Lap joint flange, 0.5 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel	●	●		
164	Lap joint flange, DN25, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel		●	●	
170	Lap joint flange, 1 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel			●	
195	Lap joint flange, DN40, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel			●	●
201	Lap joint flange, 1.5 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel				●
226	Lap joint flange, DN50, PN40, EN 1092-1, Type B1 (raised face), 304 stainless steel				●
232	Lap joint flange, 2 in, CL300, ASME B16.5, Type RF (raised face), 304 stainless steel				●

Metran-360M Mass Flowmeter Data Sheet

* - Required fields!

General Information					
Customer*:					Date of Completion:
Contact Name*:					**Tel./Fax*:**
Address*:					email:
Data Sheet No.	Project Item:				**Quantity*:**
Process Fluid Information					
Process Fluid*:					**Phase*:**
Composition (for mixture):		Concentration (for solution): %			Gas presence (for liquid): %
☐ aggressive	☐ prone to build-up	☐ abrasive: up to % of solids; particle size up to mm			
Process Information					
Measured Flow *: Min	Rated	Max	t/h		Allowable pressure loss across the meter at:
Process Pressure*: Min	Rated	Max	kgf/cm2-g		
Process Temperature*: Min	Rated	Max	°C		- Rated flow - kgf/cm2;
Density*: Min	Rated	Max	kg/m3		- Max flow - kgf/cm2
Viscosity*: Min	Rated	Max	cP		
On-site Pipeline Connection					
Pipe ID*: mm;		Wall Thickness: mm			Material*:
Flange Standard:		Flange Sealing Surface Form:			
Flowmeter Requirements					
Measurement Accuracy (min):	**Mass flow* -** %				Density - kg/m3
Ambient Temperature: to °C					Flowmeter Power Supply:
Explosion Protection:					Cable Entry Size:
Preferred mounting of transmitter and sensor:	☐ Integral	☐ Remote with cable meters (80 m max)			
Output: ☐ 4-20 mA (number)	☐ Frequency/pulse	☐ Digital -			
Additional Features:					
☐ LCD with buttons					
☐ Primary verification					
Accessories, Services					
Required Configuration Tools: ☐ Configuration software					
☐ mating flanges	☐ reducer (if reducer flowmeter is offered)				
☐ thermal jacket					☐ supervision, commissioning
Notes					