

FLOWSIC600-XT THE PERFECT MATCH

Gas flow meters



FLOWSIC600-XT: THE PERFECT MATCH

Just how can the market leader for reliable, maximum precision ultrasonic gas flow measuring devices get any better? The answer is easy: by carefully listening to and consistently responding to the requirements of individual users.

With four device versions, the FLOWSIC600-XT is able to meet any application requirement as a standalone or system solution – and deliver best possible measuring performance at the same time. Along with its groundbreaking design, this product family impresses with innovative intrinsic value: i-diagnostics[™] the built-in solution, which delivers intelligent application diagnostics and PowerIn Technology[™] continues to take measurements and save valuable data for up to three weeks in the event of a mains power failure. FLOWSIC600-XT delivers the ideal combination of maximum measurement accuracy, long-term stability, and unrivaled operational safety, yet is entirely unassuming.

SIC





Measurement data reliability and availability

The FLOWSIC600 ultrasonic gas flow measuring device already provides best-in-class long-term stability in extreme ambient conditions, and now the FLOWSIC600-XT combines the features of its predecessor with unprecedented usability. It meets all the requirements for safe and stable custody transfer gas measurement throughout its service life. Measurement and diagnostics data and status changes can be recorded permanently in six accessible data archives, and the FLOWSIC600-XT's PowerIn Technology[™] ensures that measurements continue to be taken and data stored in the event of a mains power failure.

Simple device integration – even in compact systems

Continuous improvement of ultrasound technologies is a tradition at SICK, Germany. The FLOWSIC600-XT boasts state-of-the-art measurement technology, meaning it delivers extremely precise measurement results. Compliant with ISO 17089 and AGA9 and compatible with its predecessor the FLOWSIC600, it can be integrated successfully into any system. Plus, the new FLOWSIC600-XT Forte meets the requirements of compact installations and complies with all of the specifications of OIML R 137 Classes 1.0 and 0.5.

Quick and easy device commissioning and checks

i-diagnostics[™] helps make device commissioning and status checks quick and easy, and provides extensive flow meter and application diagnostics during operation. Should maintenance ever be required, the intelligent solution assistant provides support. The built-in infrared interface means measured value and diagnostics data can be accessed in no time, making servicing quick and efficient.

FLOWSIC600-XT – PROVIDING YOU WITH THE PERFECT GAS FLOW METER FOR ANY APPLICATION

Each of the ultrasonic gas flow meters in the FLOWSIC600-XT product family has been designed for custody transfer applications and fulfills the requirements of all the common national and international standards. There are four device versions to choose from to meet specific gas flow meter performance requirements. Determining which one to use varies, which is why our performance-oriented classification of the FLOWSIC600-XT, -XT Forte, -XT 2plex, and -XT Quatro is the ideal first step in ensuring there is a focus on the task at hand and customer requirements, allowing a unique solution to be provided. All of the FLOWSIC600-XT versions can be installed with ease into any custody transfer measurement application with a nominal width of between 3 and 48 inches, and they can also be conveniently connected to all of the most popular flow computers on the market.



FLOWSIC600-XT

The FLOWSIC600-XT has proven to be a versatile device suitable for all custody transfer natural gas applications, with 15 years of field experience gained from the FLOWSIC600 having been incorporated into this four-path technology.



FLOWSIC600-XT Forte

Providing impressive meter performance in a limited space and combining eight paths on two different path levels in one device, the FLOWSIC600-XT Forte guarantees maximum measurement accuracy. It is the natural first choice for installations in systems with short inlet and outlet piping.



FLOWSIC600-XT 2plex

The extremely compact FLOWSIC600-XT 2plex is the combination of a gas flow meter for custody transfer applications and a check measurement device, featuring extended diagnostic functionality thanks to its additional independent measurement path.



FLOWSIC600-XT Quatro

The FLOWSIC600-XT Quatro combines two measurement devices for redundant measurements in custody transfer natural gas applications in one, with an installation length equivalent to that of a single device.

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Quick and easy data access

In addition to its numerous interfaces, the FLOWSIC600-XT also enables quick and easy access to measured value and diagnostics data thanks to the infrared communications port built into its front display. All of the necessary settings and device data are accessible via this interface. The FLOWSIC600-XT can also be extended for wireless communication.

PowerIn Technology[™] – data security guaranteed

Operating with an extremely low power consumption and measurement algorithms that have been further optimized, the FLOWSIC600-XT is setting new standards for ultrasonic gas flow meters. It boasts a highly efficient energy concept, including a backup battery that guarantees a continuous power supply even in the event of a mains power failure. If this does happen, the power consumption of all of the electronics is automatically reduced to the minimum level possible. We call this PowerIn Technology[™]. It makes sure that measurements can continue to be taken for up to three weeks without the need for external power and saves important measurement data. This extremely efficient electronics concept is forward-thinking in the way it allows for autonomous device operation, for example using a solar power supply.



Automatic correction of measured values under changing operating conditions

The FLOWSIC600-XT provides even more accurate measurements than its predecessor, with its integrated geometry and Reynolds number correction function boosting measurement accuracy under changing pressure and temperature conditions. Another advantage of the integrated pressure and temperature correction function is the ease and safety with which calibration conditions can be transferred over to application conditions. The pressure and temperature values required to enable this feature are provided by built-in sensors, transmitters externally connected via HART, or a flow computer.

i-diagnostics[™] – an essential tool for effective and efficient device and application diagnostics

i-diagnostics[™] has so much more to offer than just diagnostics – it is an intelligent combination of firmware and software that means the device is safe, reliable, and easy to use for the entire operating time. i-diagnostics[™] builds on the FLOWSIC600's CBM (condition based maintenance) smart self-diagnosis functionality, providing useful information about the system status and any changes to it, in addition to device diagnostics. In order to assess the application, diagnostics data from cross-eyed beams is first factored in, with application faults, such as blocked flow conditioners, background noise, contamination, and liquids in the gas, being detected immediately – making lengthy troubleshooting a thing of the past. Process data is constantly assessed on the basis of the integrated FingerPrint concept. This means that the measurement conditions during calibration can be compared with the measurement conditions during commissioning and with the current measurement and diagnostics data. An internal data logger continuously logs measured values for trend analyses to allow the historical measurement process in the form of a graphic trend analysis is also possible.

FLOWgate[™] – new and intuitive operating software

FLOWgate[™] intelligently links diagnostics data together and then displays it. The quick status function provides immediate information about the current status of the application, and if a warning limit is reached, the solution assistant can be used to analyze the problem at the click of a button. In order to get a quick overview or analysis, each user can put together measured values and diagnostics parameters as required in the measured value overview, and then amend or save their overview. FLOWgate[™] allows the FLOWSIC600-XT, and in turn all of the measured value and diagnostics data, to be accessed at any time via a PC or tablet – whether online or offline. The graphical display of trend analyses in charts facilitates the analysis of the measurement process and provides information on changes to the process. Concise diagnostics, maintenance, and calibration reports can be created at any time using the report manager, while a range of wizards, including one for commissioning, make it much easier to operate the device.



FLOWgate[™] overview

THE PERFECT MATCH





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Product description

As the follow-up to the successful FLOWSIC600, the FLOWSIC600-XT ultrasonic gas flow measuring device is setting new standards in its market segment.The FLOWSIC600-XT is available in variants with 4, 4+1, 4+4, and 8 measurement paths to meet the requirements of every application, whether it is being used as a stand-alone or system solution. In addition to the OIML R 137 Class 1.0 requirements, the FLOW-SIC600-XT meets the requirements of Class 0.5 and AGA9 in their entirety.

At a glance

- · User-friendly product family
- Automatic correction of pressure and temperature effects
- Available for all operating conditions
- PowerIn Technology[™] for reliable backup operation

Your benefits

- Low measurement uncertainty in every application
- Excellent measurement data reliability and availability
- The right ultrasonic gas flow measuring device for every application – without compromise

The FLOWSIC600-XT contains i-diagnostics[™] – an intelligent application diagnostics function – and PowerIn Technology[™], which enables continuous measurement operation for up to three weeks in the event of a mains voltage failure. These functions help ensure usability and unparalleled operational safety – and what"s more, the equipment offers the very best possible measurement accuracy and long-term stability.

- Intelligent application diagnostics with i-diagnostics™
- Extendable with flow computers per connect-and-go
- Simple device integration even in compact systems
- Quick and easy commissioning and checks

→ www.sick.com/FLOWSIC600-XT

For more information, simply visit the above link to obtain direct access to technical data, CAD design models, operating instructions, software, application examples, and much more.

Fields of application

- Custody transfer measurement of natural gas
- Transport and storage of gas

- Onshore and offshore applications
- Gas production applications with H_2S and CO_2 content

Detailed technical data

The exact device specifications and performance data of the product may deviate from the information provided here, and depend on the application in which the product is being used and the relevant customer specifications.

System

-	
Measured values	Volumetric flow, a. c., volume a. c., gas velocity, sound velocity, Optional volume correction via integrated \ensuremath{EVC}
Number of measuring paths	4, 4+1 (2plex), 4+4 (Quatro), 8 (Forte)
Measurement principle	Ultrasonic transit time difference measurement
Measuring medium	Natural gas, air, natural gases with contents of CO ₂ , N ₂ , H ₂ S, O ₂
Measuring ranges	
Q _{min} from to	5 750 m³/h
Q _{max} from to	1,000 120,000 m³/h
	Measuring ranges depend on nominal pipe size
Repeatability	\leq 0.05 % of the measured value
Accuracy	
	Error limits Qt Q _{max}
4-path and 8-path version:	$\leq \pm 0.5 \%$ Dry calibrated
4-path and 8-path version:	$\le\pm$ 0.2 % After flow calibration and adjustment with constant factor. Without uncertainty of the calibration test facility.
4-path and 8-path version:	\leq \pm 0.1 % After flow calibration and adjustment with polynomial or piecewise correction. Without uncertainty of the calibration test facility.
Min. piping requirements	
4-path version	According OIML Class 1.0: with straight inlet section of \geq 10D or \geq 5D with flow conditioner According OIML Class 0.5: with straight inlet section of \geq 10D and flow conditioner
8-path version	According OIML Class 1.0: with straight inlet section of \ge 2D According OIML Class 0.5: with straight inlet section of \ge 5D
	For details see operating instructions
Diagnostics functions	i-diagnostics™: integrated device diagnostics and intelligent extended device and applica- tion diagnostics via FLOWgate™ software
Gas temperature	
	-40 °C +180 °C
On request:	-194 °C +280 °C
Operating pressure	0 bar (g) 160 bar (g) On request: 0 bar (g) 450 bar (g)
Nominal pipe size	
	3 ″ 56 ″ (DN 80 DN 1400), other nominal pipe sizes on request
Ambient temperature	
	-40 °C +70 °C (-60 °C +70 °C with enclosure for electronics)
Storage temperature	-40 °C +70 °C (-60 °C +70 °C meter body only)
Ambient humidity	≤ 95 % Relative humidity; non-condensing

Conformities	OIML R 137-1&2:2012 OIML D 11:2013 ISO 17089-1 AGA-Report No. 9 MID: 2014/32/EU PED: 2014/68/EU ATEX: 2014/34/EU EMC: 2014/30/EU GOST 8.611-2013 GOST 8.733-2011
Ex-approvals	
	Ex db ia op is [ia Ga] IIA/IIC T4 Gb Ex db eb ia op is [ia Ga] IIA/IIC T4 Gb Ex ia op is IIA/IIC T4 Ga Ex ia nA op is IIC T4 Gc
ATEX	II 2 (1) G Ex db ia op is [ia Ga] IIA/IIC T4 Gb II 2 (1) G Ex db eb ia op is [ia Ga] IIA/IIC T4 Gb II 1G Ex ia op is IIA/IIC T4 Ga II 3G Ex ia nA op is IIC T4 Gc
NEC/CEC (US/CA)	Explosion-proof / non-incendive: CI I, Div. 1 Group D, T4 / Ex d ia [ia Ga] IIA T4 Gb / CI I, Zone 1 AEx d ia op is [ia Ga] IIA T4 Gb CI I, Div. 1 Groups A, B, C, D, T4 / Ex ia IIC T4 Ga / CI I, Zone 0, AEx ia op is IIC T4 Ga CI I, Div. 1 Groups B, C, D, T4 / Ex d ia [ia Ga] IIC T4 Gb / CI I, Zone 1 AEx d ia op is [ia Ga] IICT4 Gb Intrinsically safe: CI I, Div. 1 Group D T4 / Ex ia IIA T4 Ga / CI I, Zone 0, AEx ia op is IIA T4 Ga CI I, Div. 1 Groups A, B, C, D, T4 / Ex ia IIC T4 Ga / CI I, Zone 0, AEx ia op is IIC T4 Ga CI I, Div. 1 Groups A, B, C, D, T4 / Ex ia IIC T4 Ga / CI I, Zone 0, AEx ia op is IIC T4 Ga Non-incendive CI I, Div. 2 Groups A, B, C, D, T4 / Ex ia nA IIC T4 Gc / CI I, Zone 2, AEx ia nA op is IIC T4 Gc
Enclosure rating	IP66 / IP67
Analog outputs	1 output: 4 20 mA, \leq 250 Ω Active/passive, electrically isolated
Digital outputs	4 outputs: 2 x status, 2 x pulse \leq 30 V, 50 mA Passive, electrically isolated, Open Collector or according to NAMUR (EN 50227), f _{max} = 10 kHz (scalable)
Modbus Type of fieldbus integration	✓ TCP RTU RS-485 (3x) ASCII RS-485 (3x)
Ethernet Remark	✓ Option
HART	V
Remark	HART master (for connection of external pressure and temperature transmitters)
Optical interface	V
Remark	Service interface (IR, according IEC 62056-21)
Serial Remark	✔ Encoder
Operation	Via display and software FLOWgate™
Dimensions (W x H x D)	See dimensional drawings and tables
Weight	See table "Dimensions"
Material in contact with media	Low temperature carbon steel, stainless steel, duplex steel

Electrical connection	
Voltage	Electrically isolated: 12 24 V DC Intrinsically safe: 6 16 V DC
	PowerIn technology™ with back-up battery (2,400 mAh, 10.8 V), optional
Power consumption	0.45 W 2.45 W Depending on electronics configuration
Integrated components	Integrated pressure sensor and temperature sensor for correction of pressure and tempera- ture effects (option)
Volume correction	
Correction method	PTZ (optional integrated)
Compressibility	SGERG88 AGA 8 Gross method 1 AGA 8 Gross method 2 AGA NX-19 AGA NX-19 mod. NX-19 mod. (GOST) GERG91 mod. (GOST) Fixed value
Data archives	1 diagostics archive (6,000 entries) 2 measurement periodic archives (6,000 entries each)
Logbooks	Event log book (1,000 entries) Parameter log book (200 entries) Metrology log book (50 entries)

Measuring ranges

Measuring ranges, metric

Nominal		Extendet flow rate range acc. MID							
pipe size		c. MID							
	Extended MID minimum flow rate	Standard MID minimum flow rate	MID transition flow rate	MID maximum flow rate	Non-MID maximum flow rate				
	m³/h	m³/h	m³/h	m³/h	m³/h				
	Extended Q _{min}	Standard Q _{min}	Acc. ISO 17089 Qt	Standard Q _{max}	Extended Q _{max}				
DN 80 (3")	5	8	40	650	1,000				
DN 100 (4")	8	13	65	1,000	1,600				
DN 150 (6")	16	20	100	2,500	3,000				
DN 200 (8")	20	32	160	4,000	4,500				
DN 250 (10")	25	50	240	6,500	7,000				
DN 300 (12")	35	65	310	7,800	8,000				
DN 350 (14")	45	80	420	10,000	10,000				
DN 400 (16")	60	120	550	13,000	14,000				
DN 450 (18")	100	130	700	16,000	17,000				
DN 500 (20")	130	200	850	20,000	20,000				
DN 550 (22")	150	260	1,000	24,000	24,000				
DN 600 (24")	180	320	1,200	28,000	32,000				
DN 650 (26")	240	450	1,400	32,000	35,000				
DN 700 (28")	280	650	1,700	36,000	40,000				
DN750 (30")	320	650	1,900	40,000	45,000				
DN 800 (32")	360	800	2,200	43,000	50,000				
DN 850 (34")	400	900	2,500	47,000	55,000				
DN 900 (36")	450	1,000	2,800	51,000	66,000				
DN 950 (38")	500	1,100	3,100	56,000	70,000				
DN 1000 (40")	550	1,200	3,400	60,000	80,000				
DN 1050 (42")	600	1,300	3,800	65,000	85,000				
DN 1100 (44")	650	1,400	4,100	70,000	90,000				
DN 1150 (46")	700	1,500	4,500	72,000	95,000				
DN 1200 (48")	750	1,600	4,800	80,000	100,000				
DN 1300 (52")	900	1,700	5,600	90,000	110,000				
DN 1400 (56")	1,000	1,800	6,500	100,000	120,000				
When using	an installation configurat	tion with flow conditioner	the maximum allowed ga	as velocity in the pipe is li	mited to 40 m/s				

Nominal					
pipe size		Stand	lard flow rate range acc	. MID	
	Extended MID minimum flow rate	Standard MID minimum flow rate	MID transition flow rate	MID maximum flow rate	Non-MID maximum flow rate
	Ft³/h	Ft³/h	Ft³/h	Ft³/h	Ft³/h
	Extended Q _{min}	Standard Q _{min}	Acc. ISO 17089 Qt	Standard Q _{max}	Extended Q _{max}
3" (DN 80)	180	280	1,400	23,000	35,000
4" (DN 100)	290	460	2,300	35,300	56,000
6" (DN 150)	570	710	3,500	88,000	106,000
8" (DN 200)	710	1,130	5,700	141,300	159,000
10" (DN 250)	880	1,800	8,500	230,000	247,000
12" (DN 300)	1,200	2,300	10,900	276,000	283,000
14" (DN 350)	1,600	2,800	14,800	353,000	354,000
16" (DN 400)	2,100	4,200	19,400	459,000	495,000
18" (DN 450)	3,500	4,600	24,700	565,000	602,000
20" (DN 500)	4,600	7,100	30,000	706,000	708,000
22" (DN 550)	5,300	9,200	35,000	848,000	850,000
24" (DN 600)	6,400	11,300	42,000	989,000	1,133,000
26" (DN 650)	8,500	15,900	49,000	1,130,000	1,240,000
28" (DN 700)	9,900	23,000	60,000	1,271,000	1,420,000
30" (DN 750)	11,300	23,000	67,000	1,413,000	1,590,000
32" (DN 800)	12,700	28,300	78,000	1,519,000	1,770,000
34" (DN 850)	14,200	31,800	88,000	1,660,000	1,950,000
36" (DN 900)	15,900	35,300	99,000	1,801,000	2,337,000
38" (DN 950)	17,700	38,800	109,000	1,978,000	2,479,000
40" (DN 1000)	19,500	42,400	120,000	2,119,000	2,833,000
42" (DN 1050)	21,200	45,900	134,000	2,296,000	3,010,000
44" (DN 1100)	23,000	49,400	145,000	2,472,000	3,187,000
46" (DN 1150)	24,800	53,000	159,000	2,543,000	3,364,000
48" (DN 1200)	26,600	56,500	170,000	2,825,000	3,541,000
52" (DN 1300)	31,800	60,000	198,000	3,178,000	3,885,000
56" (DN 1400)	35,300	63,600	230,000	3,532,000	4,238,000
When using	an installation configurat	ion with flow conditioner	the maximum allowed ga	s velocity in the pipe is l	imited to 131 ft/s

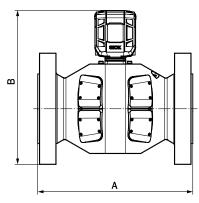
Measuring ranges, imperial

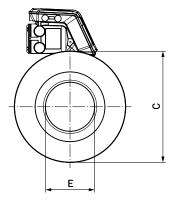
Ordering information

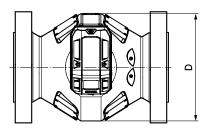
Our regional sales organization will help you to select the optimum device configuration.

Dimensional drawings (Dimensions in mm (inch))

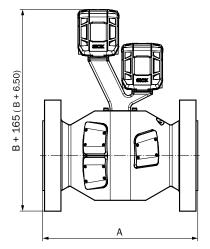
FLOWSIC600-XT and FLOWSIC600-XT Forte

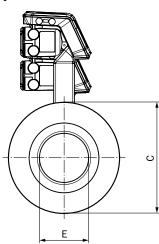


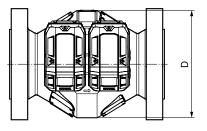




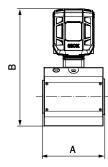
FLOWSIC600-XT 2plex and FLOWSIC600-XT Quatro

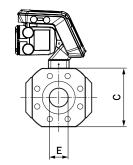


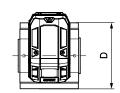




FLOWSIC600-XT: 3" design for up to Class 600/PN100 pressure levels

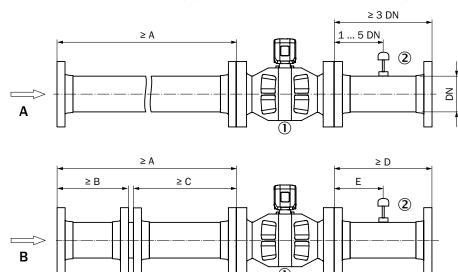






Instruction for installation

Installation of FLOWSIC600-XT in pipeline for unidirectional use (minimum requirements)



① FLOWSIC600-XT

② Temperature measuring point

(3)

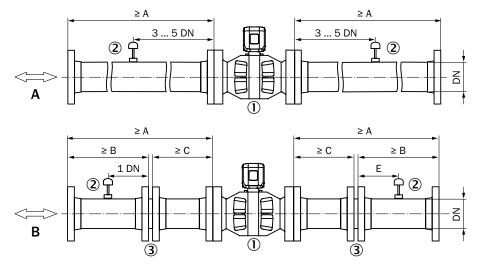
③ Flow conditioner

	Configuration A			Configuration B							
Number of measuring paths	OIML R 137	A	Number of measuring paths	OIML R 137 A ¹⁾	A	в	с	D	E		
4	Class 1.0	10 DN	4	Class1.0	5 DN	2 DN	3 DN	3 DN	1 5 DN		
8	Class 1.0	2 DN	4	Class 0.5	10 DN	2 DN	8 DN	3 DN	1 5 DN		
8	Class 0.5	5 DN	8	Class 1.0/0.5	5 DN	2 DN	3 DN	3 DN	1 5 DN		
Number of measuring paths	AGA Report 9, 3 rd Edition, July 2017	Α	Number of measuring paths	AGA Report 9, 3 rd Edition, July 2017 ²⁾	A	В	с	D	E		
4	"Metering package per- formance" acc. § 6.3	20 DN	4	"Metering package per- formance" acc. § 6.3	10 DN	5 DN	5 DN	5 DN	2.5 DN		
8	"Metering package per- formance" acc. § 6.3	5 DN	8	"Metering package per- formance" acc. § 6.3	5 DN	2 DN	3 DN	5 DN	2.5 DN		

¹⁾ Minimum requirements with PTB flow conditioner;

recommended installation for other flow conditioners on request

²⁾ Minimum requirements with CPA 50 E flow conditioner; recommended installation for other flow conditioners on request



Installation of FLOWSIC600-XT in pipeline for bidirectional use (minimum requirements)

① FLOWSIC600-XT

Alternative temperature measurement points

③ Flow conditioner

	Configuration A			Configuration B						
Number of measuring paths	0IML R 137	A	Number of measuring paths	OIML R 137 A ¹⁾	A	В	C ³⁾	E		
4	Class 1.0	10 DN	4	Class 1.0	5 DN	2 DN	3 DN	1 DN		
8	Class 1.0	5 DN	4	Class 0.5	10 DN	2 DN	8 DN	1 DN		
8	Class 0.5	5 DN	8	Class 1.0/0.5	5 DN	2 DN	3 DN	1 DN		
Number of measuring paths	AGA report 9, 3 rd Edition, July 2017	A	Number of measuring paths	AGA report 9, 3 rd Edition, July 2017 ²⁾	A	В	с	$\mathbf{D}^{4)}$		
4	"Metering package per- formance" acc. § 6.3	20 DN	4	"Metering package per- formance" acc. § 6.3	10 DN	5 DN	5 DN	2,5 DN		
8	"Metering package per- formance" acc. § 6.3	5 DN	8	"Metering package per- formance" acc. § 6.3	6 DN	3 DN	3 DN	2,5 DN		
			¹⁾ Minimum requirements with PTB flow conditioner; recommended installation for other flow conditioners on request							

²⁾ Minimum requirements with CPA 50 E flow conditioner; recommended installation for other flow conditioners on request

- ³⁾ When C \geq 5 DN, the temperature measuring point in pipe section C must be positioned with a distance of 3 ... 5 DN
- ⁴⁾ Meter packages shall be flow calibrated with thermowells installed

-					
10	m		nc		ns
		CI	13	U	113

Nominal pipe size	Connection flange	Standard	Weight 1)	Length (A)	Hight ²⁾ (B)	Flange diame- ter (C)	Width of mea- suring section (D)	Internal diame- ter (E)
			[kg]	[mm]	[mm]	[mm]	[mm]	[mm]
3″	Cl. 150	ANSI B16.5	75	240	454	190	205	73
	Cl. 300		75		454	210		
	Cl. 600		75		454	210		
	Cl. 900		120	400	461	240		
DN 80	PN 16	DIN 2633	75	240	454	200		
	PN 63	DIN 2636	75		454	215		
	PN 100	DIN 2637	75		454	230		
4″	Cl. 150	ANSI B16.5	100	300	490	230	248	95
	Cl. 300		110		490	255		
	Cl. 600		120		490	275		
	Cl. 900		130	500	490	290		
DN 100	PN 16	DIN 2633	110	300	490	220		
	PN 63	DIN 2636	120		490	250		
	PN 100	DIN 2637	126		490	265		
6″	Cl. 150	ANSI B16.5	128	450	540	280	330	142
	Cl. 300		145		540	320		
	Cl. 600		170		540	355		
	Cl. 900		238	750	540	380		
DN 150	PN 16	DIN 2633	140	450	540	285		
	PN 63	DIN 2636	162		540	345		
	PN 100	DIN 2637	176		540	355		
8″	Cl. 150	ANSI B16.5	255	600	617	345	415	190
	Cl. 300		276		617	380		
	Cl. 600		316		617	420		
	Cl. 900		360		617	470		
DN 200	PN 16	DIN 2633	260		617	340		
	PN 63	DIN 2636	298		617	415		
	PN 100	DIN 2637	360		617	430		
10″	Cl. 150	ANSI B16.5	377	750	691	405	420	235
	Cl. 300		411		691	445		
	Cl. 600		485		691	510		
	Cl. 900		528		691	545		
DN 250	PN 16	DIN 2633	383		691	405		
	PN 63	DIN 2636	434		691	470		
	PN 100	DIN 2637	486		691	505		
12″	Cl. 150	ANSI B16.5	445	900	728	485	500	270
	Cl. 300		494		728	520		
	Cl. 600		560		728	560		
	Cl. 900		645		685	610		
DN 300	PN 16	DIN 2633	441		728	460		
	PN 63	DIN 2636	509		728	530		
	PN 100	DIN 2637	585		638	585		

FLOWSIC600-XT GAS FLOW METERS

Nominal pipe size	Connection flange	Standard	Weight 1)	Length (A)	Hight ²⁾ (B)	Flange diame- ter (C)	Width of mea- suring section (D)	Internal diame- ter (E)		
			[kg]	[mm]	[mm]	[mm]	[mm]	[mm]		
14″	Cl. 150	ANSI B16.5	475	1,050	642	535	540	315		
	CI. 300		600		667	585				
	CI. 600		675		677	605				
	CI. 900		850		700	640				
DN 350	PN 16	DIN 2633	475		635	520				
	PN 63	DIN 2636	625		675	600				
	PN 100	DIN 2637	750		705	655				
		Fore al m	neters ≥ 16″ a	n installation le	ngth of 3D is o	ptionally available				
16″	Cl. 150	ANSI B16.5	672	762	844	595	610	360		
	CI. 300		760		844	650				
	CI. 600		857		844	685				
	CI. 900		926	800	755	705				
DN 400	PN 16	DIN 2633	658	762	844	580				
	PN 63	DIN 2636	794		844	670				
18″	Cl. 150	ANSI B16.5	660	820	754	635	620	620	620	405
	CI. 300		760		792	710				
	CI. 600		960		820	745				
	CI. 900		1,300	900	830	785				
DN 450				Data	on request					
20″	Cl. 150	ANSI B16.5	750	902	815	700	670	450		
	CI. 300		930		853	775				
	CI. 600		1,080		872	815				
	CI. 900		1,500	1,000	892	855				
DN 500	PN 16	DIN 2633	700	902	823	715				
22″				Data	on request					
DN 550				Data	on request					
24″	Cl. 150	ANSI B16.5	1,090	991	927	815	760	540		
	CI. 300		1,390		978	915				
	CI. 600		1,615		990	940				
	CI. 900		2,100	1,200	1,040	1,040				
DN 600	PN 16	DIN 2633	1,015	991	940	840				
26″	Cl. 150	ASME B16.47	1,475	1,050	965	870	828	585		
	CI. 300		1,825		1,016	972				
	CI. 600		2,100		1,038	1,016				
	CI. 900		2,500	1,250	1,073	1,086				
DN 650				Data	on request					
28"	Cl. 150	ASME B16.47	1,950	1,100	1,027	927	862	630		
	CI. 300		2,225		1,080	1,035				
	CI. 600		2,450		1,100	1,073				
	CI. 900		3,000	1,300	1,150	1,169				
DN 700				Data	on request					

GAS FLOW METERS FLOWSIC600-XT

Nominal pipe size	Connection flange	Standard	Weight ¹⁾	Length (A)	Hight ²⁾ (B)	Flange diame- ter (C)	Width of mea- suring section (D)	Internal diame- ter (E)
			[kg]	[mm]	[mm]	[mm]	[mm]	[mm]
30″	Cl. 150	ASME B16.47	2,195	1,150	1,080	985	902	675
	Cl. 300		2,545		1,135	1,092		
	Cl. 600		2,820		1,154	1,130		
	Cl. 900		3,350	1,350	1,205	1,232		
DN 750				Data	on request			
32″	Cl. 150	ASME B16.47	2,485	1,200	1,145	1,061	979	720
	Cl. 300		2,835		1,190	1,150		
	Cl. 600		3,110		1,212	1,194		
	Cl. 900		3,800	1,400	1,272	1,315		
DN 800				Data	on request			
34″				Data	on request			
DN 850				Data	on request			
36″	Cl. 150	ASME B16.47	3,125	1,250	1,250	1,169	1,082	810
	Cl. 300		3,525		1,300	1,270		
	Cl. 600		3,850		1,323	1,315		
	Cl. 900		5,225	1,450	1,396	1,461		
DN 900					on request			
38″	Cl. 150	ASME B16.47	3,800	1,300	1,310	1,238	1,160	855
	Cl. 300		3,725		1,275	1,169		
	Cl. 600		4,300		1,325	1,270		
	Cl. 900		Data on	request	1,421	1,461		
DN 950					on request			
40″	CI. 150	ASME B16.47	3,825	1,350	1,359	1,289	1,213	900
	Cl. 300		4,125		1,334	1,239		
	CI. 600		4,675 Data an		1,375	1,321		
DN 1000	Cl. 900		Data on	request	1,470	1,512		
DN 1000	01 150		4.075		on request	1 246	1 001	045
42″	CI. 150	ASME B16.47	4,675	1,450	1,415	1,346	1,261	945
	CI. 300 CI. 600		4,650		1,386 1,444	1,289		
	CI. 900		5,450	request	1,444	1,404 1,562		
DN 1050	01. 000		Data on		on request	1,302		
44″					on request			
DN 1100					on request			
46″					on request			
DN 1150					on request			
48″	Cl. 150	ASME B16.47	6,400	1,600	1,574	1,511	1,416	1,080
	Cl. 300		6,475		1,552	1,467		
	Cl. 600		7,850		1,615	1,594		
	Cl. 900		12,100	1,900	1,711	1,785		
DN 1200					on request			
		¹⁾ Devi	ces with single	SPU; devices v	with double SPI	J: weight + 7 kg		
			²⁾ Option	nal neck extens	sion: B + 200 m	ım		

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