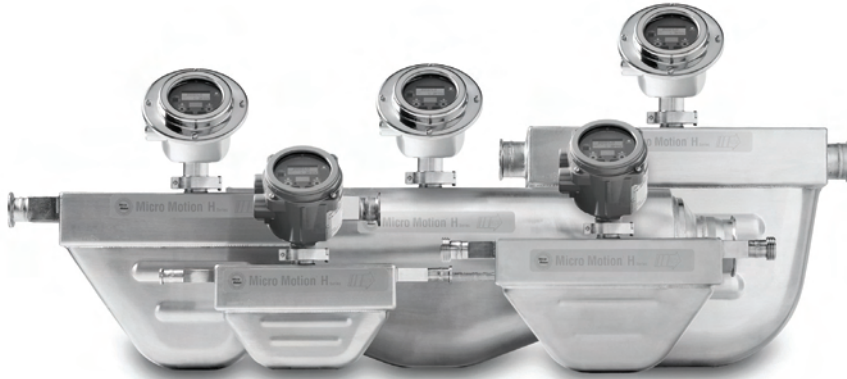


Product Data Sheet

PS-00599, Rev. H
September 2011

Micro Motion® H-Series Hygienic Coriolis Flow and Density Meters

Micro Motion® H-Series Coriolis meters offer highly accurate flow and density measurement for virtually any process fluid and with cleanability unmatched by any other dual-tube Coriolis flowmeter.



Best flow and density measurement in a compact hygienic flow meter

- Superior sensitivity in a compact design to reduce variability in process control
- Ensure product consistency and quality with superior density measurement

Comprehensive hygienic application coverage

- Easy to CIP and SIP with EHEDG certified, 3-A authorized design
- Available with FMT transmitter for fast-fill dosing and batch applications
- Low operating frequency for better measurement in continuous two-phase flow and gas applications
- Self-draining design and superior temperature stability enables fast product change-over
- Highly polished surface finish for ultra-pure fluids

Superior reliability and safety

- 316L stainless steel construction for compatibility with tough cleaning solutions

ELITE® Peak performance Coriolis meter

ELITE HC Peak performance high capacity meter

F-Series High performance compact drainable Coriolis meter

H-Series Hygienic compact drainable Coriolis meter

T-Series Straight tube full-bore Coriolis meter

R-Series General purpose flow-only Coriolis meter

LF-Series Extreme low-flow Coriolis meter



Micro Motion H-Series hygienic flow and density meters

Micro Motion Coriolis meters meet a vast range of application needs, ranging from extreme low-flow up to high-flow, high-capacity lines. Cryogenic, hygienic, high-temperature, and high-pressure—Micro Motion meters can handle them all. Micro Motion meters are available with a variety of wetted parts to ensure the best material compatibility.

Coriolis meters. Coriolis meters offer dramatic benefits over traditional volumetric measurement technologies. Coriolis meters:

- Deliver accurate and repeatable process data over a wide range of flow rates and process conditions.
- Provide direct inline measurement of mass flow and density, and also measure volume flow and temperature—all from a single device.
- Have no moving parts, so maintenance costs are minimal.
- Have no requirements for flow conditioning or straight pipe runs, so installation is simplified and less expensive.
- Provide advanced diagnostic tools for both the meter and the process.

H-Series Coriolis meters. Micro Motion H-Series meters feature a 32 Ra (0.8 μm) internal surface finish, which is both 3-A authorized and EHEDG certified. A 15 Ra (0.4 μm) internal surface finish is available as an option. All H-Series meters can be installed to be self-draining.

Micro Motion H-Series meters are approved by the European Hygienic Equipment Design Group (EHEDG), are authorized to 3-A Sanitary Standards for Milk and Dairy Products, and are designed according to strict ASME guidelines for Bio-Processing Equipment.

Micro Motion H-Series meters can be purchased with an optional secondary containment rating. This rating is supported by a pneumatic leak test of the sensor enclosure, along with documentation that describes how the safety of the sensor has been verified according to ASME B31.3 standards.

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Liquid flow performance

		Mass		Volume ⁽¹⁾	
		lb/min	kg/h	gal/min	l/h
Maximum flow rate	H025	100	2720	12	2720
	H050	300	8160	36	8160
	H100	1200	32,650	144	32,650
	H200F	2350	63,960	282	63,960
	H200S	3200	87,100	384	87,100
	H300	10,000	272,000	1200	272,000
Mass flow accuracy⁽²⁾	±0.10% of rate ⁽³⁾				
Volume flow accuracy⁽²⁾	±0.15% of rate ⁽⁴⁾				
Repeatability	±0.05% of rate ⁽³⁾				
		lb/min	kg/h	gal/min	l/h
Zero stability	H025	0.0065	0.1765	0.0008	0.1765
	H050	0.020	0.544	0.002	0.544
	H100	0.080	2.177	0.010	2.177
	H200	0.256	6.965	0.031	6.965
	H300	0.80	21.76	0.096	21.76

(1) Volume measurement is based on a process-fluid density of 1 g/cm³ (1,000 kg/m³). For fluids with density other than 1 g/cm³ (1,000 kg/m³), the maximum volume flow rate equals the maximum mass flow rate divided by the fluid's density.

(2) Stated flow accuracy includes the combined effects of repeatability, linearity, and hysteresis.

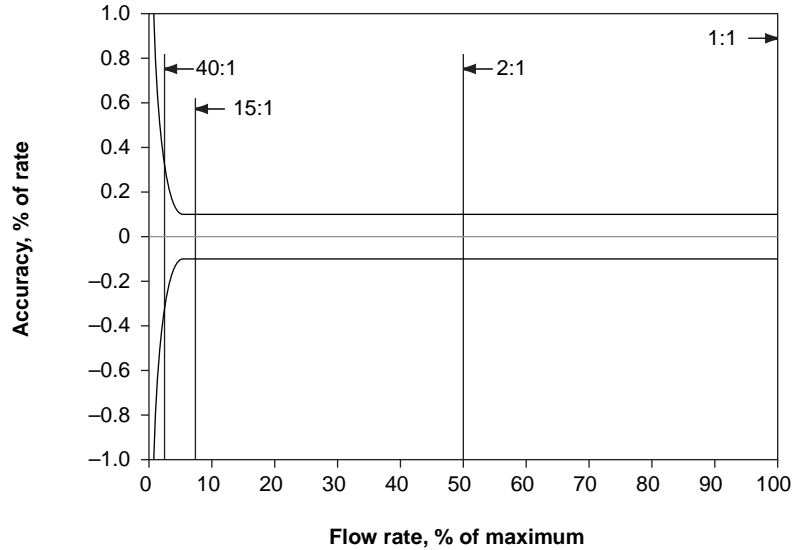
(3) When flow rate < (zero stability / 0.001), then mass flow accuracy = ±[(zero stability / flow rate) × 100]% of rate and repeatability = ±½[(zero stability / flow rate) × 100]% of rate. When ordered with the ±0.15% calibration option, mass flow accuracy on liquid = ±0.15% when flow rate ≥ (zero stability / 0.0015) and accuracy = ±[(zero stability / flow rate) × 100]% of rate when flow rate < (zero stability / 0.0015).

(4) When flow rate < (zero stability / 0.001), then volume flow accuracy on liquid = ±[1.5 × (zero stability / flow rate) × 100]% of rate and repeatability = ±½[(zero stability / flow rate) × 100]% of rate. When ordered with the ±0.15% calibration option, volume flow accuracy on liquid = ±0.25% when flow rate ≥ (zero stability / 0.0017) and volume accuracy on liquid = ±[1.5 × (zero stability / flow rate) × 100]% of rate when flow rate < (zero stability / 0.0017).

Liquid flow performance *continued*

Typical accuracy, turndown, and pressure drop with H100 with Model 2400S transmitter

To determine accuracy, turndown, and pressure drop with your process variables, use the Micro Motion product selector and configurator, available at www.micromotion.com.



<i>Turndown from maximum flow rate</i>	40:1	15:1	2:1
Accuracy (\pm %)	0.26	0.10	0.10
Pressure drop			
<i>psi</i>	0.1	0.45	14.2
<i>bar</i>	0.01	0.03	0.98

Density performance (liquid only)

Accuracy⁽¹⁾	$\pm 0.001 \text{ g/cm}^3$	$\pm 1.0 \text{ kg/m}^3$
Repeatability	$\pm 0.0005 \text{ g/cm}^3$	$\pm 0.5 \text{ kg/m}^3$
Range	Up to 5 g/cm^3	Up to 5000 kg/m^3

(1) Stated accuracy and repeatability with calibration option 1 (see page 22). With other calibration options, accuracy is $\pm 0.002 \text{ g/cm}^3$ (2.0 kg/m^3) and repeatability is $\pm 0.001 \text{ g/cm}^3$ ($\pm 1.0 \text{ kg/m}^3$).

Gas flow performance

When selecting sensors for gas applications, measurement accuracy is a function of fluid mass flow rate independent of operating temperature, pressure, or composition. However, pressure drop through the sensor is dependent upon operating temperature, pressure, and fluid composition. Therefore, when selecting a sensor for any particular gas application, it is highly recommended that each sensor be sized using Micro Motion's product selector, available at www.micromotion.com.

		Mass		Volume ⁽¹⁾	
		lb/min	kg/h	SCFM	Nm ³ /h
Typical flow rates that produce approximately 10 psi (0.68 bar) pressure drop on air⁽²⁾	H025	4	116	57	90
	H050	13	357	174	276
	H100	50	1366	667	1055
	H200	140	3810	1860	2940
	H300	488	14,865	7270	11,512
Typical flow rates that produce approximately 50 psi (3.4 bar) pressure drop on natural gas⁽³⁾	H025	16	445	378	598
	H050	49	1358	1154	1825
	H100	189	5162	4387	6936
	H200	523	14,490	12,310	19,470
	H300	1856	50,989	43,331	72,247
Accuracy⁽⁴⁾		±0.50% of rate ⁽⁵⁾			
Repeatability		±0.25% of rate ⁽⁵⁾			
		lb/min	kg/h		
Zero stability	H025	0.0065	0.18		
	H050	0.020	0.54		
	H100	0.080	2.18		
	H200	0.256	6.97		
	H300	0.80	21.76		

(1) Standard (SCFM) reference conditions are 14.7 psia and 68 °F. Normal (Nm³/h) reference conditions are 1.013 bar and 0 °C.

(2) Air at 68 °F (20 °C) and 100 psia (6.8 bar).

(3) Natural gas at MW 16.675 at 68 °F (20 °C) and 500 psia (34 bar)

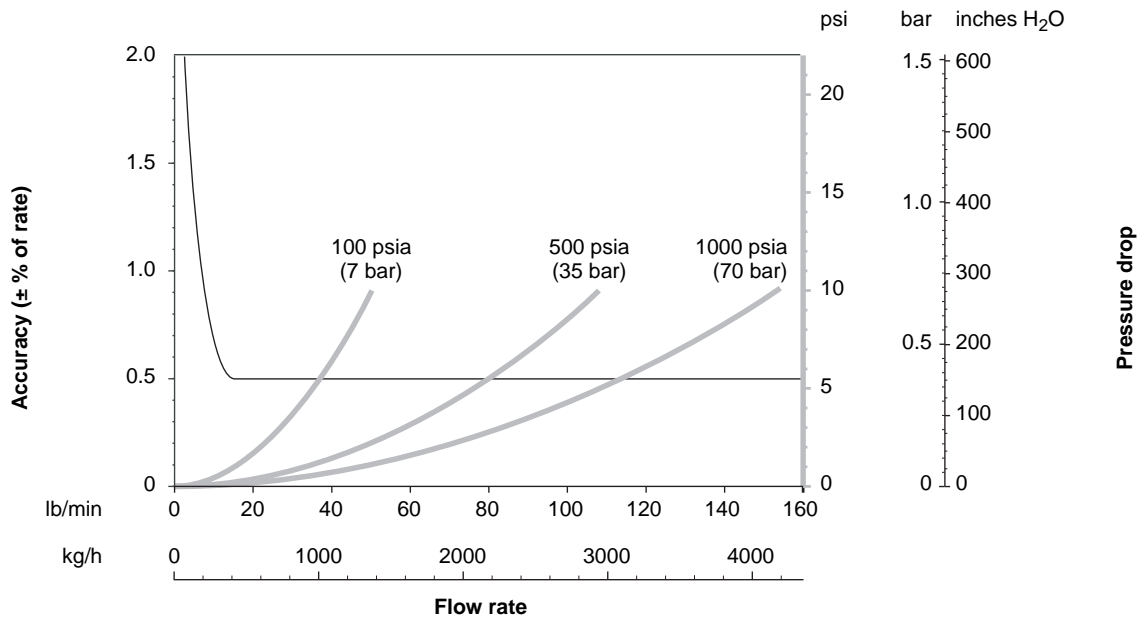
(4) Stated flow accuracy includes the combined effects of repeatability, linearity, and hysteresis.

(5) When flow rate < (zero stability / 0.005), then accuracy = ±[(zero stability / flow rate) × 100]% of rate and repeatability = ±½[(zero stability / flow rate) × 100]% of rate.

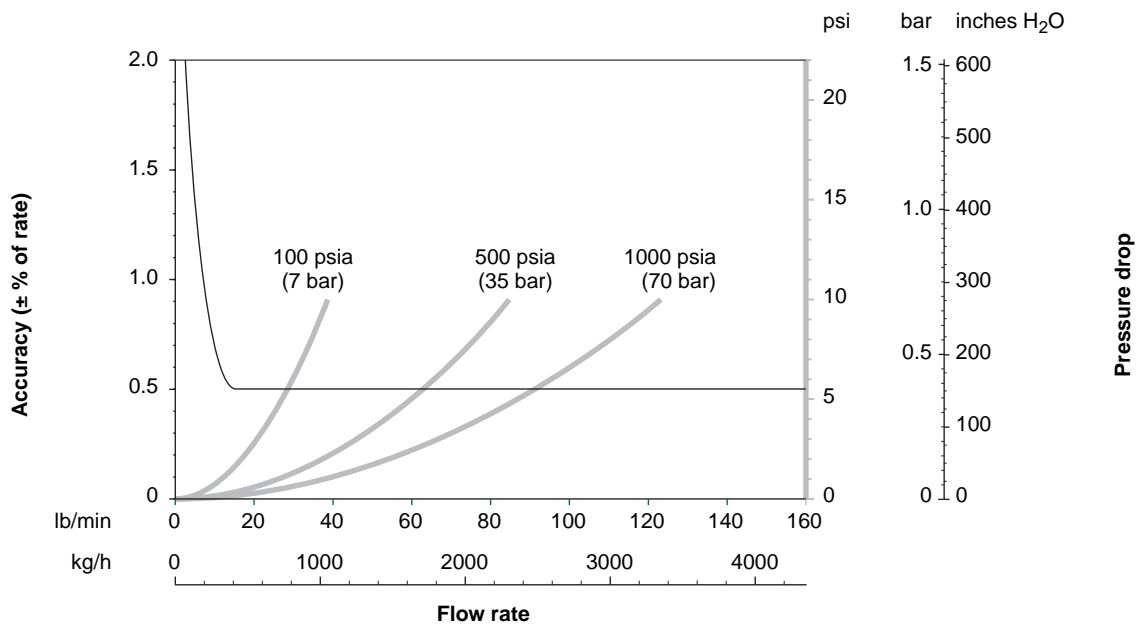
Gas flow performance *continued*

Typical accuracy and pressure drop with H100 with Model 2400S transmitter

Air at 68 °F (20 °C), static pressures as indicated on graph



Natural gas (MW 16.675) at 68 °F (20 °C), static pressures as indicated on graph



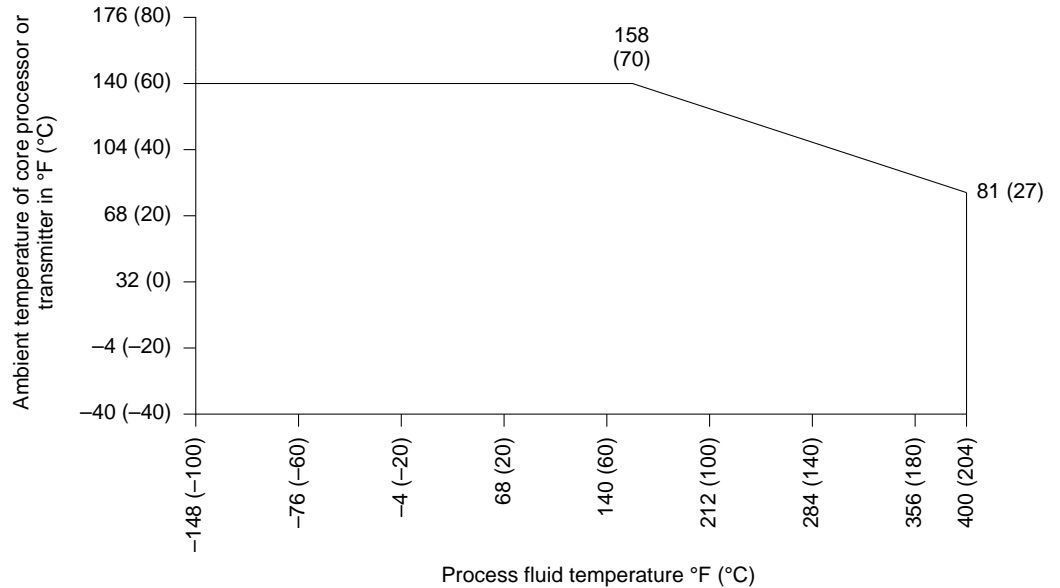
Standard or Normal Volumetric Capability

Standard and normal volumes are “quasi mass” flow units for any fixed composition fluid. Standard and normal volumes do not vary with operating pressure, temperature, or density. With knowledge of density at standard or normal conditions (available from reference sources), a Micro Motion meter can be configured to output in standard or normal volume units without the need for pressure, temperature, or density compensation. Contact your local sales representative for more information.

Temperature specifications

Accuracy	All models	$\pm 1\text{ }^{\circ}\text{C} \pm 0.5\%$ of reading in $^{\circ}\text{C}$
Repeatability	All models	$\pm 0.2\text{ }^{\circ}\text{C}$

Temperature limits⁽¹⁾⁽²⁾



* When ambient temperature is below $-40\text{ }^{\circ}\text{F}$ ($-40\text{ }^{\circ}\text{C}$), a core processor must be heated to bring its local ambient temperature to between $-40\text{ }^{\circ}\text{F}$ ($-40\text{ }^{\circ}\text{C}$) and $+140\text{ }^{\circ}\text{F}$ ($+60\text{ }^{\circ}\text{C}$). Long-term storage of electronics at ambient temperatures below $-40\text{ }^{\circ}\text{F}$ ($-40\text{ }^{\circ}\text{C}$) is not recommended.

- (1) Temperature limits may be further restricted by hazardous area approvals. See pages 13–14.
 (2) The extended mount option allows the sensor case to be insulated without covering the transmitter, core processor, or junction box, but does not affect temperature ratings.

Weight

Weights provided are the weight of the flowmeter with sanitary fittings.

	H025		H050		H100		H200		H300	
	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
Sensor with integral transmitter or core processor ⁽¹⁾	13	6	15	7	23	11	42	19	136	62
Sensor with extended transmitter or core processor ⁽¹⁾	14	7	16	7	24	11	43	20	137	62
Sensor with FMT transmitter	14	6	15	7	22	10	—	—	—	—

(1) Weights given are for sensor with stainless steel core processor. Subtract 4 lb (2 kg) for aluminum core processor housing option.

Pressure ratings

PED compliance

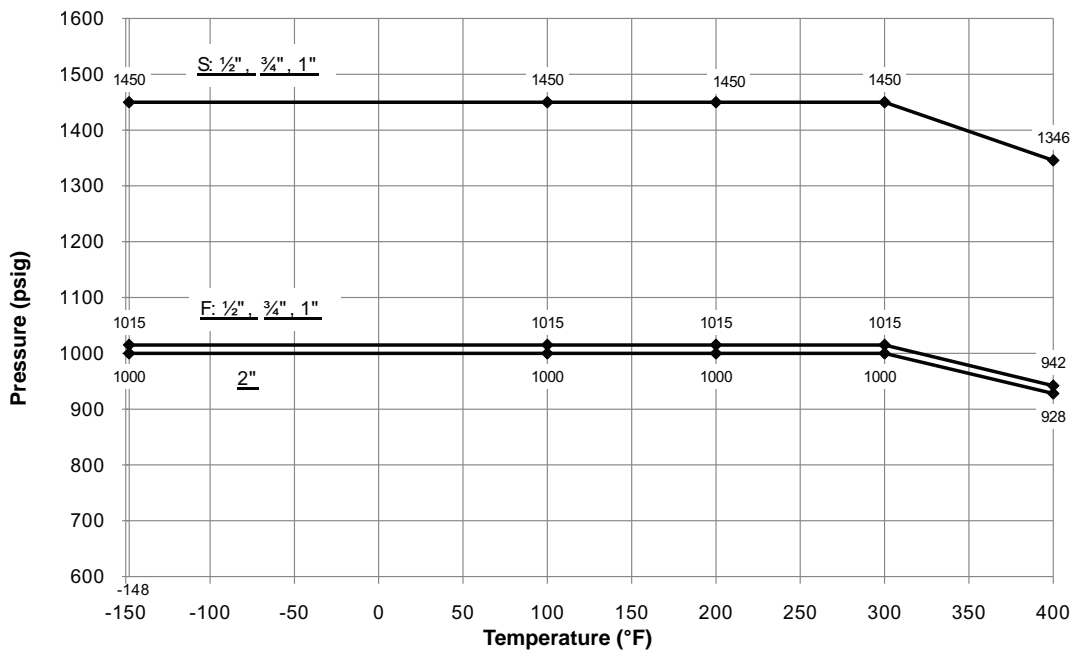
Sensors comply with council directive 97/23/EC of 29 May 1997 on Pressure Equipment

Housing rating ⁽¹⁾		ASME B31.3 secondary containment rating		Burst pressure used to determine ASME B31.3 secondary containment rating	
		psig	bar	psig	bar
		H025	166	11.4	1884
	H050	135	9.3	1530	105
	H100	109	7.5	1281	88.3
	H200	64	4.4	760	52.4
	H300	256	17.7	2630	180

(1) Sensor housing is only rated when the secondary containment case option is purchased.

Sensor pressure/temperature rating with Tri-Clamp compatible 316L hygienic fittings

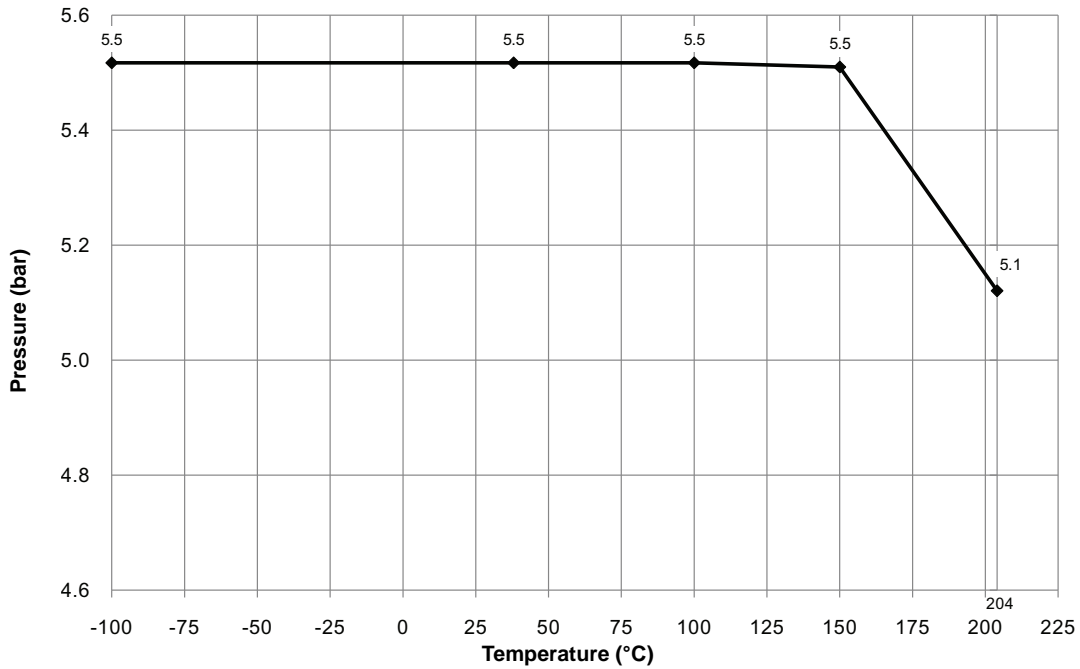
Models H025S through H050S; Models H025F through H300F



Pressure ratings *continued*

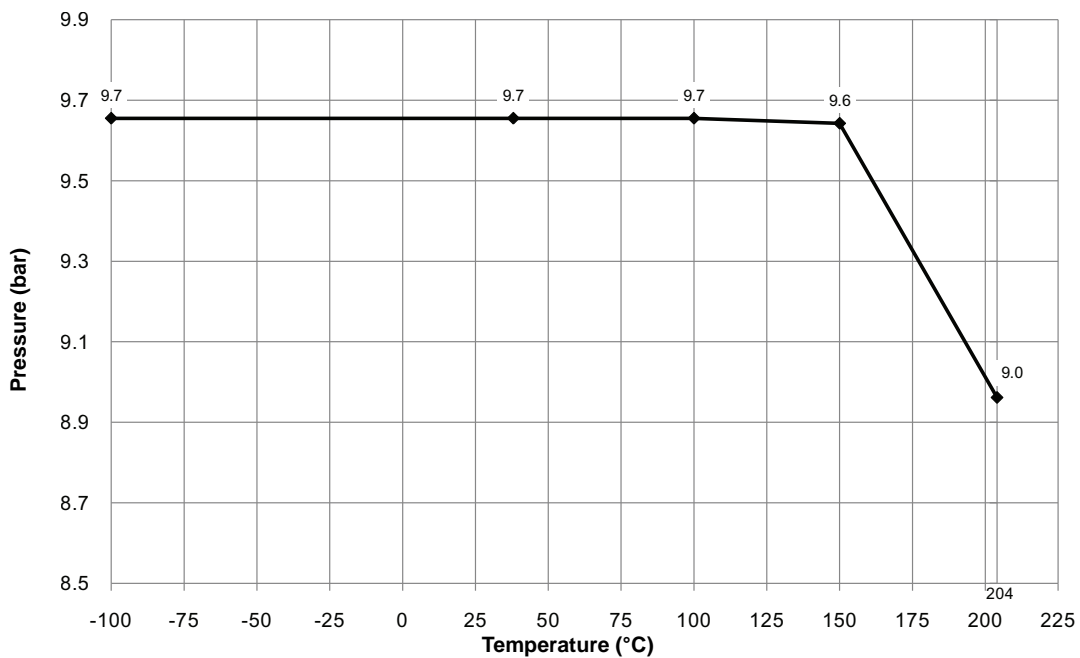
Sensor pressure/temperature rating with SMS 1145 316L hygienic coupling

Models H300S and H300F



Sensor pressure/temperature rating with IDF 316L hygienic fittings

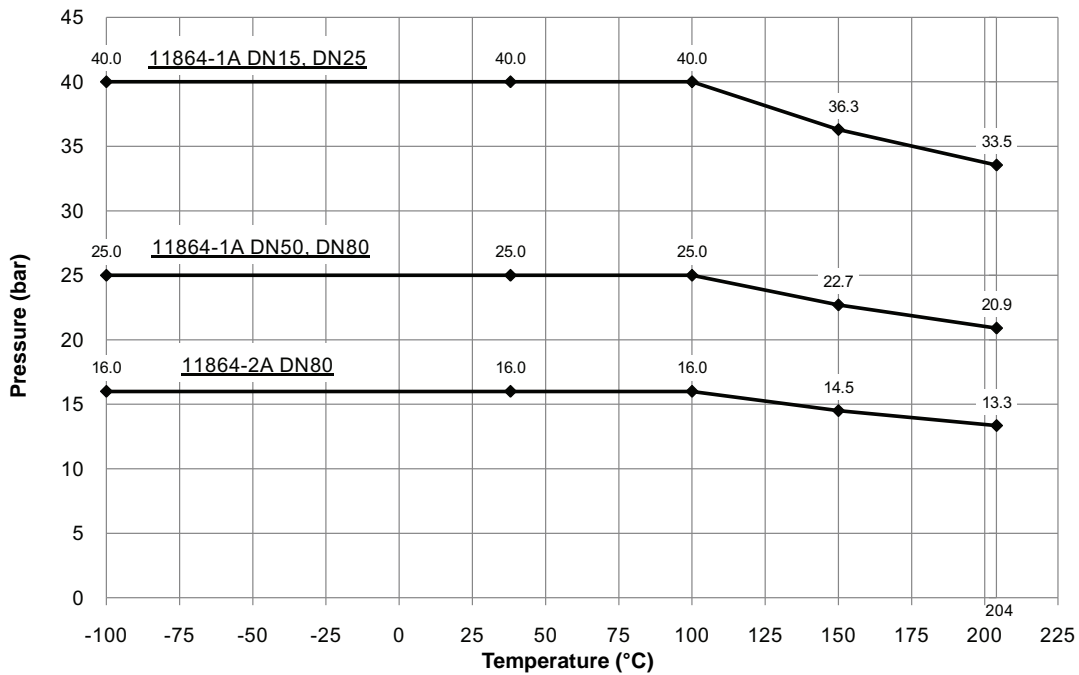
Models H025S through H300S; Models H025F through H300F



Pressure ratings *continued*

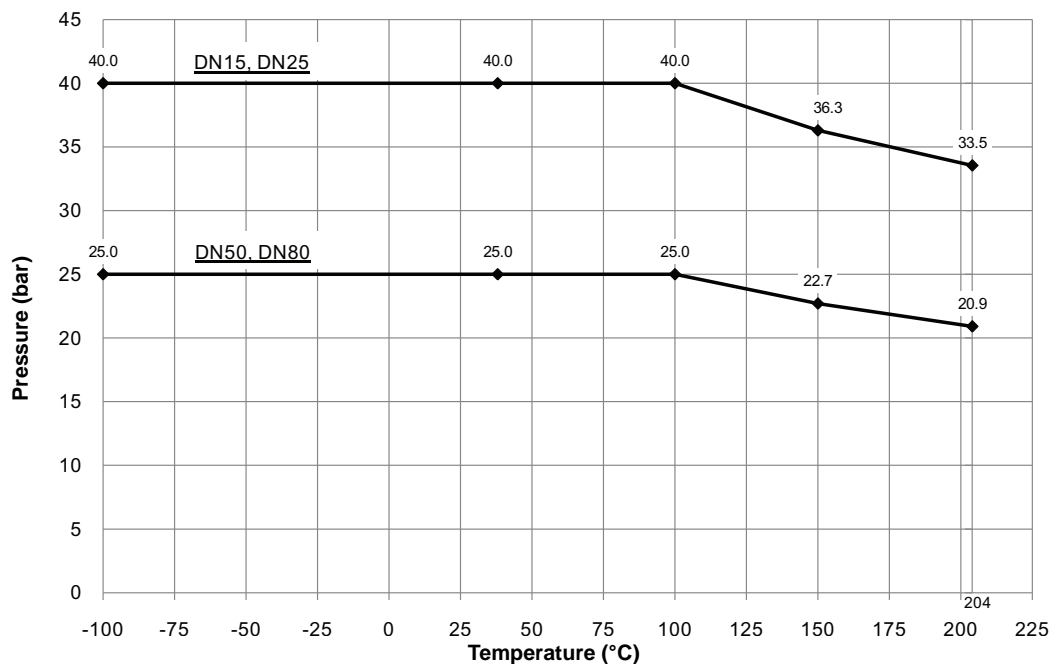
Sensor pressure/temperature rating with DIN 11864 316L hygienic couplings and flanges

Models H025S through H300S; Models H025F through H300F



Sensor pressure/temperature rating with DIN 11851 316L hygienic coupling

Models H025S through H300S; Models H025F through H300F



Vibration limits

Meets IEC 68.2.6, endurance sweep, 5 to 2000 Hz, 50 sweep cycles at 1.0 g

Materials of construction

Wetted parts⁽¹⁾	Sensor with standard surface finish	316L stainless steel, 32 Ra (0.8 µm) surface finish
	Sensor with improved surface finish	316L stainless steel, 15 Ra (0.38 µm) electro-polished surface finish
Housing	Sensor	304L stainless steel
	Core processor	CF-3M stainless steel or polyurethane-painted aluminum; NEMA 4X (IP 66)

(1) *General corrosion guidelines do not account for cyclical stress, and therefore should not be relied upon when choosing a wetted material for your Micro Motion flowmeter. Please refer to Micro Motion's corrosion guide for material compatibility information.*

Environmental effects

Process temperature effect

Process temperature effect is defined as:

- For mass flow measurement, the worst-case zero offset due to process fluid temperature change away from the zeroing temperature.
- For density measurement, the maximum measurement offset due to process fluid temperature change away from the density calibration temperature.

Process temperature effect

	% of maximum flow rate per °C	on density accuracy per °C ⁽¹⁾	
		g/cc	kg/m ³
H025	±0.00175	±0.0001	±0.1
H050	±0.00175	±0.0001	±0.1
H100	±0.00175	±0.0001	±0.1
H200	±0.00175	±0.0001	±0.1
H300	±0.0040	±0.0001	±0.1

Pressure effect

Pressure effect is defined as the change in sensor flow and density sensitivity due to process pressure change away from the calibration pressure⁽²⁾. Pressure effect can be corrected.

Pressure effect on flow accuracy

	% of rate per psi	% of rate per bar
H025	None	None
H050	None	None
H100	None	None
H200	-0.001	-0.015
H300	-0.001	-0.015

Pressure effect on density accuracy

	g/cc per psi	kg/m ³ per bar
H025	None	None
H050	None	None
H100	None	None
H200	-0.00003	-0.43
H300	-0.00003	-0.43

(1) For -100 °C and above.

(2) Micro Motion uses a factory calibration pressure of 20 psig (1.4 bar).

Hazardous area classifications

CSA and CSA C-US

All models with Model 2400S transmitter	Ambient temperature: –40 °F to +140 °F (–40 to +60 °C) Class I, Div. 2, Groups A, B, C, and D Class II, Div. 2, Groups F and G
Models H025, H050, and H100 with FMT transmitter	Ambient temperature: –13 °F to +140 °F (–25 to +60 °C) Class I, Div. 2, Groups A, B, C, and D Class II, Div. 2, Groups F and G
All models with core processor or Model 1700/2700 transmitter	Ambient temperature: –40 °F to +140 °F (–40 to +60 °C) Class I, Div. 1, Groups C and D Class I, Div. 2, Groups A, B, C, and D Class II, Div. 1, Groups E, F, and G

IECEX

All models with Model 2400S transmitter; Models H025, H050, and H100 with FMT transmitter	Ex nA IIC T1–T5 Gc
Models H025, H050, H100, and H200 with core processor or Model 1700/2700 transmitter	Ex ib IIC T1–T5
Model H300 with core processor or Model 1700/2700 transmitter	Ex ib IIB T1–T5

ATEX

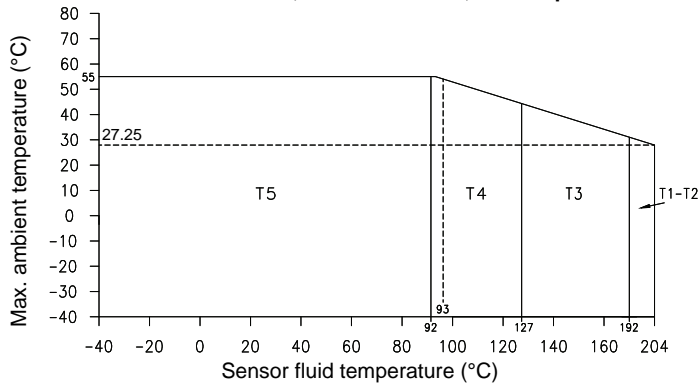
All models with Model 2400S transmitter; Models H025, H050, and H100 with FMT transmitter	CE $\langle \text{Ex} \rangle$ II 3G Ex nA IIC T1–T5 Gc II 3D Ex tc IIIC T ⁽¹⁾ °C Dc IP66
Models H025, H050, H100, and H200 with core processor or Model 1700/2700 transmitter	CE 0575 $\langle \text{Ex} \rangle$ II 2G Ex ib IIC T1–T5 Gb II 2D Ex ib IIIC T ⁽¹⁾ °C Db IP65
Model H300 with core processor	CE 0575 $\langle \text{Ex} \rangle$ II 2G Ex ib IIB T1–T5 Gb II 2D Ex ib IIIC T ⁽¹⁾ °C Db IP65

(1) For ambient and process temperature limits, refer to the graphs on page 14.

Hazardous area classifications *continued*

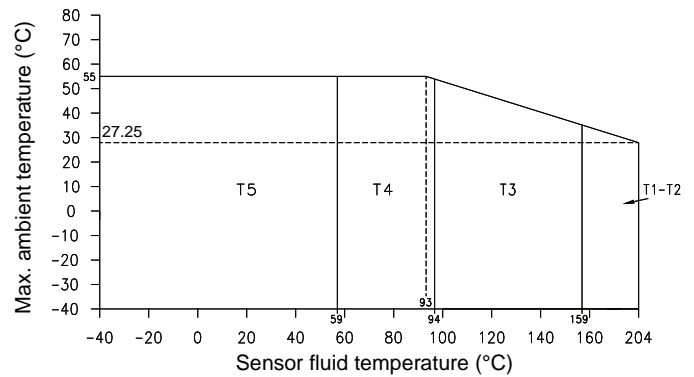
ATEX

H025 and H050 (CIC A2) with 2400S transmitter, 1700/2700 transmitter, FMT transmitter, or core processor



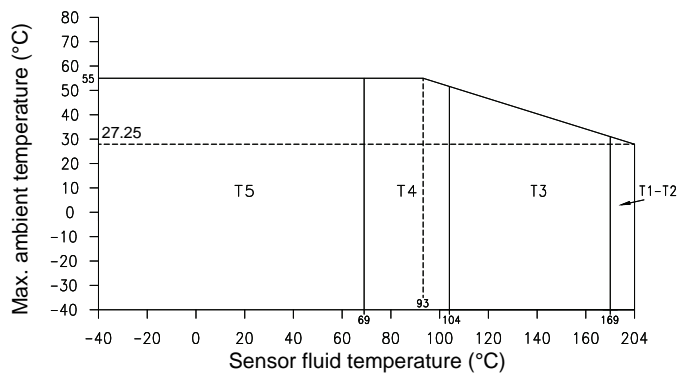
The maximum surface temperature for dust is as follows: T5:T 95 °C, T4:T 130 °C, T3:T 195 °C, T2 to T1: 207°C.
Max ambient temperature is increased to +60°C when sensor is used with integral core processor.

H100 (CIC A2) with 2400S transmitter, 1700/2700 transmitter, FMT transmitter, or core processor



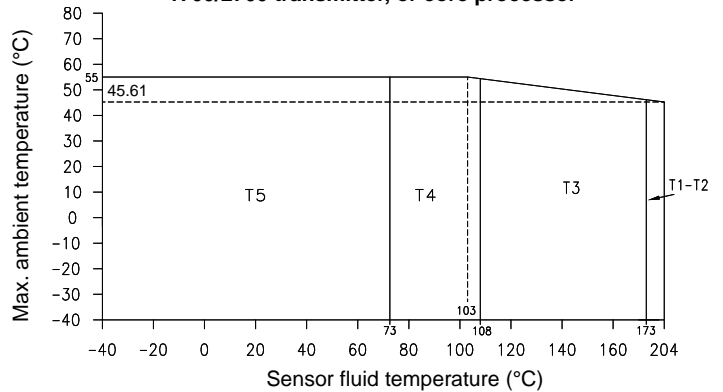
The maximum surface temperature for dust is as follows: T5:T 95 °C, T4:T 130 °C, T3:T 195 °C, T2–T1:T 240°C.
Max ambient temperature is increased to +60°C when sensor is used with integral core processor.

H200 (CIC A1) with 2400S transmitter, 1700/2700 transmitter, or core processor



The maximum surface temperature for dust is as follows: T5:T 95 °C, T4:T 130 °C, T3:T 195 °C, T2 to T1:T 230 °C.
Max ambient temperature is increased to +60°C when sensor is used with integral core processor.

H300 with 2400S transmitter, 1700/2700 transmitter, or core processor

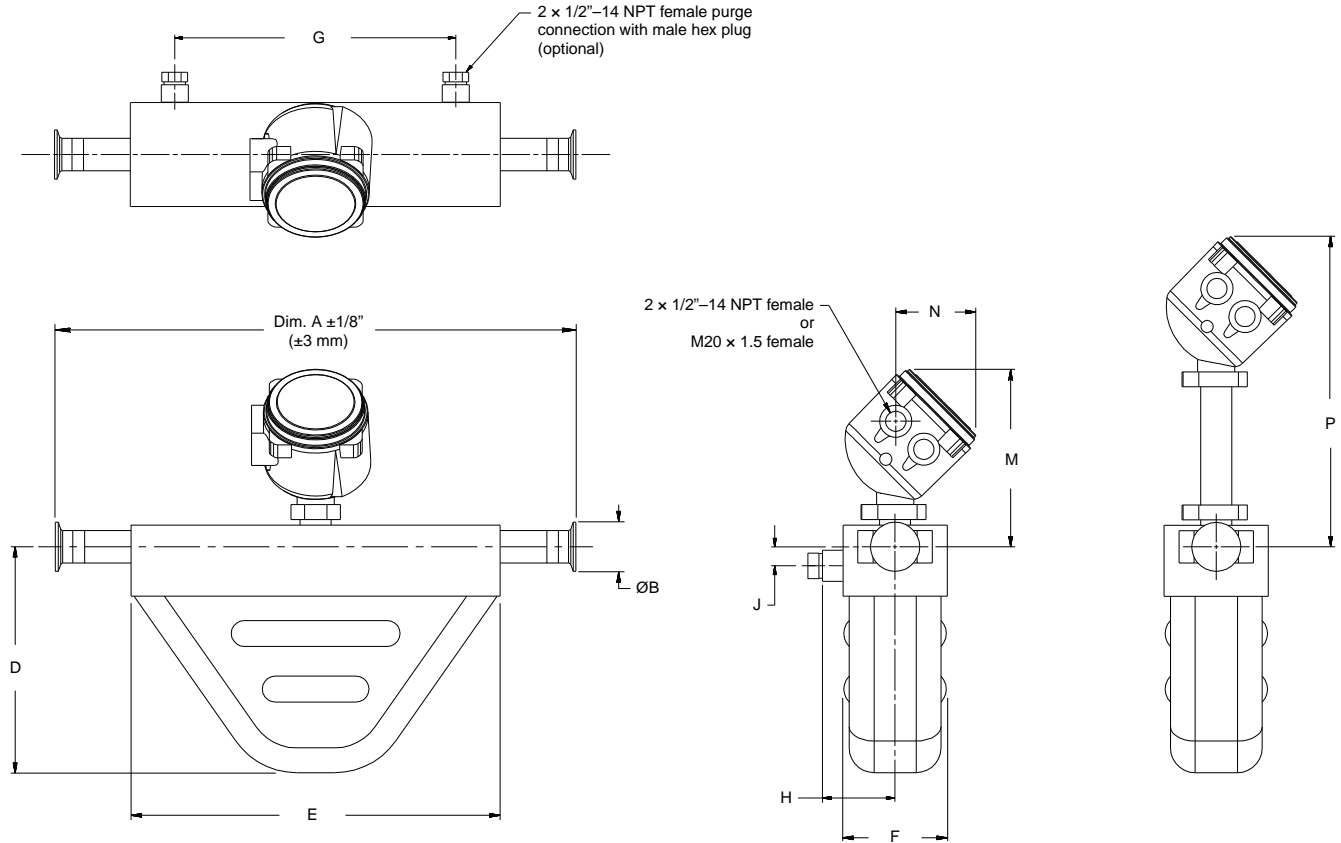


The maximum surface temperature for dust is as follows: T5:T 95°C, T4:T 130°C, T3:T 195°C, T2 to T1:T 226°C.
Max ambient temperature is increased to +60°C when sensor is used with integral core processor.

Dimensions

Models H025, H050, and H100 with Model 2400S transmitter or enhanced core processor

Dimensions in inches
(mm)



Model	No. of flow tubes	Units	Dimensions ⁽¹⁾⁽²⁾									
			Flow tube ID	D	E	F	G	H	J	M	N	P
H025	2	in	0.21	5.13	9.75	2.81	7.50	2.19	0.65	6.91	3.24	12.28
		mm	5.3	130	248	71	190	56	16	176	82	312
H050	2	in	0.35	6.75	11.86	2.94	9.00	2.19	0.75	6.91	3.24	12.28
		mm	8.8	171	302	75	229	56	19	176	82	312
H100	2	in	0.65	9.13	14.86	4.13	12.00	2.79	0.73	7.16	3.24	12.53
		mm	16	232	378	105	305	71	19	182	82	318

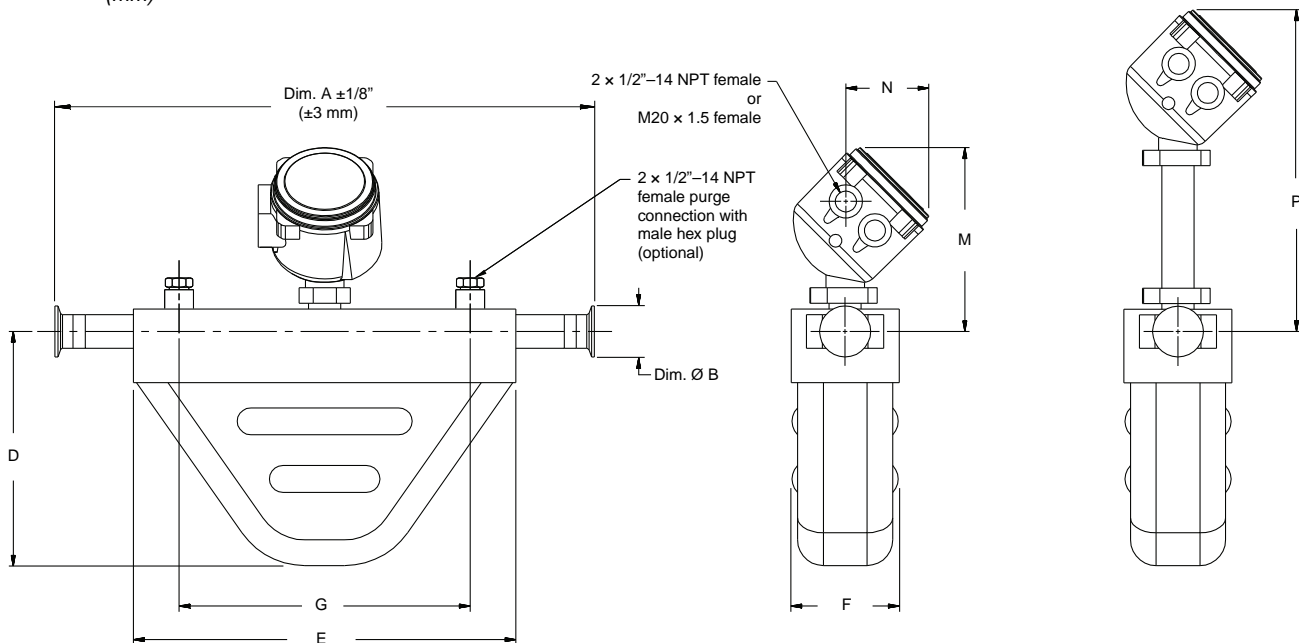
(1) For dimensions A and B, see process fitting tables on page 20.

(2) Dimensions M, N, and P represent the Model 2400S, Model 2200S, or core processor with aluminum housing. For stainless steel housing, add 0.40 in (10 mm).

Dimensions *continued*

Model H200 and H300 with Model 2400S transmitter or enhanced core processor

Dimensions in inches
(mm)



Model	No. of flow tubes	Units	Dimensions ⁽¹⁾⁽²⁾	D	E	F	G	M	N	P
			Flow tube ID							
H200	2	in	1.1	12.56	17.86	5.63	14.00	8.10	3.24	13.46
		mm	27	319	454	143	356	206	82	342
H300	2	in	1.6	7.25	27.72	5.86	21.00	9.85	3.24	15.17
		mm	40	184	704	149	533	250	82	385

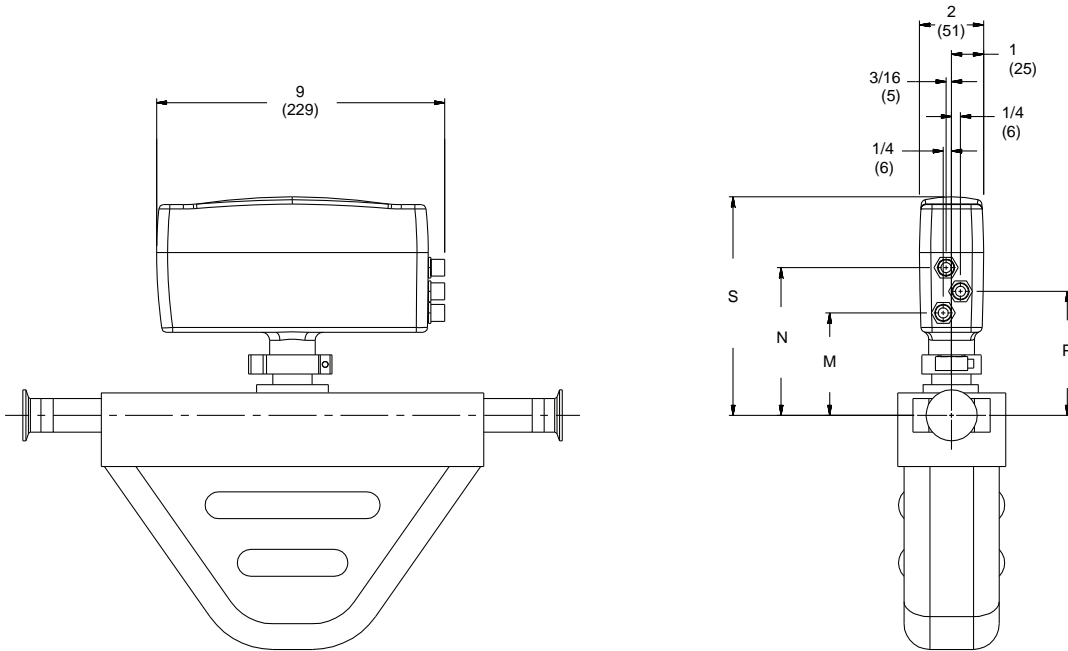
(1) For dimensions A and B, see process fitting tables on page 20.

(2) Dimensions M, N, and P represent the Model 2400S, Model 2200S, or core processor with aluminum housing. For stainless steel housing, add 0.40 in (10 mm).

Dimensions *continued*

Sensor with FMT transmitter

Dimensions in *inches*
(*mm*)



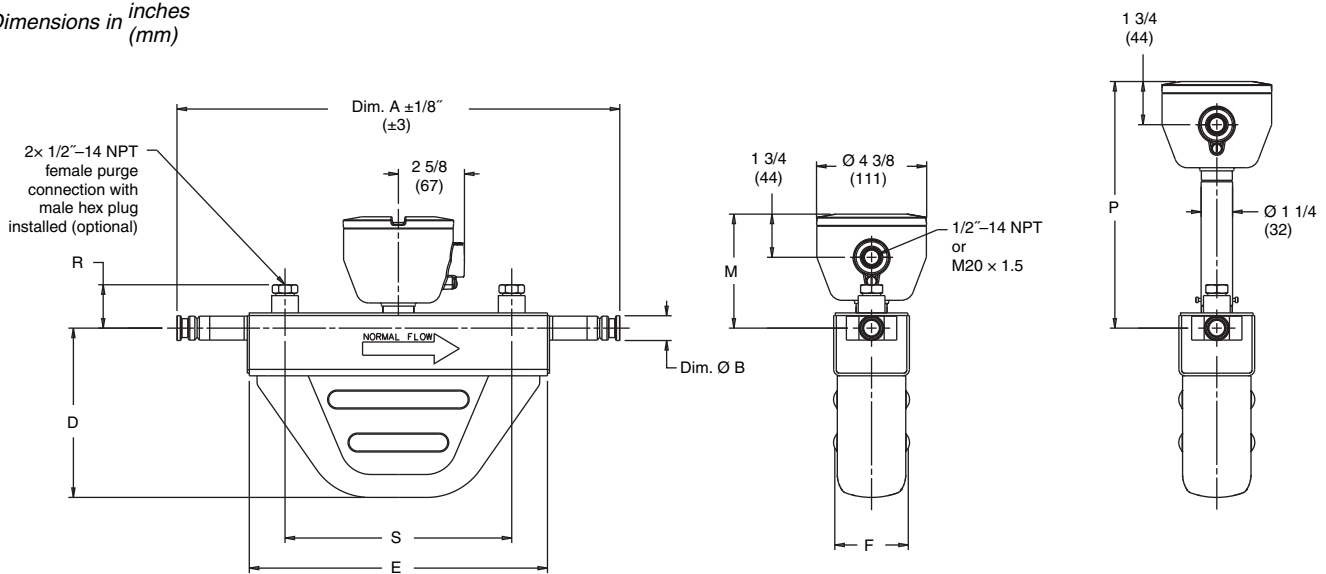
For remaining sensor dimensions, refer to page 16.

Model	No. of flow tubes	Units	Dimensions				
			Flow tube ID	M	N	P	S
H025	2	in	0.21	6.91	3.24	12.28	7.50
		mm	5.3	176	82	312	190
H050	2	in	0.35	6.91	3.24	12.28	9.00
		mm	8.8	176	82	312	229
H100	2	in	0.65	7.16	3.24	12.53	12.00
		mm	16	182	82	318	305

Dimensions *continued*

Sensor with standard core processor

Dimensions in inches
(mm)



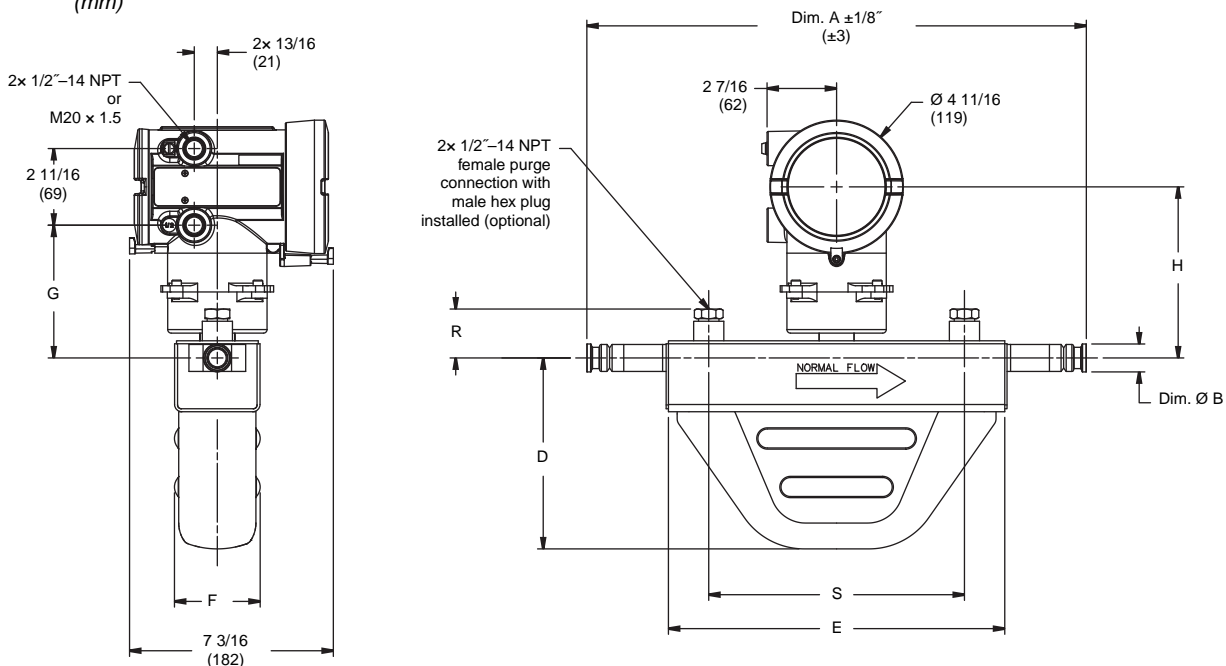
Model	No. of flow tubes	Units	Dimensions ⁽¹⁾							
			Flow tube ID	D	E	F	M	P	R	S
H025	2	in (mm)	0.21 (5.3)	5 1/8 (130)	9 3/4 (247)	2 13/16 (72)	4 7/16 (112)	9 13/16 (249)	1 3/4 (44)	7 1/2 (191)
H050	2	in (mm)	0.35 (8.8)	6 3/4 (171)	11 7/8 (301)	2 15/16 (74)	4 7/16 (112)	9 13/16 (249)	1 3/4 (44)	9 (229)
H100	2	in (mm)	0.65 (16)	9 1/8 (232)	14 7/8 (378)	4 1/8 (104)	4 11/16 (119)	10 1/16 (255)	2 (50)	12 (305)
H200	2	in (mm)	1.1 (27)	12 9/16 (319)	17 7/8 (454)	5 5/8 (144)	5 9/16 (141)	10 15/16 (278)	2 7/8 (73)	14 (356)
H300	2	in (mm)	1.6 (40)	7 1/4 (185)	27 3/4 (704)	5 7/8 (150)	7 1/4 (184)	12 5/8 (321)	4 1/2 (114)	21 (533)

(1) For dimensions A and B, see process fitting tables on page 20.

Dimensions *continued*

Sensor with integral Model 1700/2700 transmitter

Dimensions in inches (mm)



Model	No. of flow tubes	Units	Dimensions ⁽¹⁾							
			Flow tube ID	D	E	F	G	H	R	S
H025	2	in (mm)	0.21 (5.3)	5 1/8 (130)	9 3/4 (247)	2 13/16 (72)	4 11/16 (119)	6 1/16 (154)	1 3/4 (44)	7 1/2 (191)
H050	2	in (mm)	0.35 (8.8)	6 3/4 (171)	11 7/8 (301)	2 15/16 (74)	4 11/16 (119)	6 1/16 (154)	1 3/4 (44)	9 (229)
H100	2	in (mm)	0.65 (16)	9 1/8 (232)	14 7/8 (378)	4 1/8 (104)	4 15/16 (126)	6 15/16 (160)	2 (50)	12 (305)
H200	2	in (mm)	1.1 (27)	12 9/16 (319)	17 7/8 (454)	5 5/8 (144)	5 13/16 (148)	7 13/16 (182)	2 7/8 (73)	14 (356)
H300	2	in (mm)	1.6 (40)	7 1/4 (185)	27 3/4 (704)	5 7/8 (150)	7 1/2 (191)	8 7/8 (225)	4 1/2 (114)	21 (533)

(1) For dimensions A and B, see process fitting tables on page 20.

Fitting options

Fittings listed here are standard options. Other types of fittings are available. The face to face dimensions for any custom fittings ordered using a 998 or 999 fitting code are not represented in this table. It is necessary to confirm face to face dimensions of these fittings at time of ordering. Contact your local Micro Motion representative.

Model H025

Code	Description					Dim. A	Dim. B
121	1/2-inch	Tri-Clamp compatible	316L	Hygienic fitting		15.99 (406)	0.98 (25)
222	DN15	DIN11851	316L	Hygienic coupling		16.64 (423)	Rd 34 × 1/8
665	8A	IDF	316L	Hygienic fitting	Type CLF W	15.95 (405)	1.34 (34)
676	DN15	DIN11864-1A	316L	Hygienic coupling		16.64 (423)	Rd 34 × 1/8

Model H050

Code	Description					Dim. A	Dim. B
222	DN15	DIN11851	316L	Hygienic coupling		17.80 (452)	Rd 34 × 1/8
322	3/4-inch	Tri-Clamp compatible	316L	Hygienic fitting		17.38 (441)	0.98 (25)
667	15A	IDF	316L	Hygienic fitting	Type CLF W	17.41 (442)	1.34 (34)
676	DN15	DIN11864-1A	316L	Hygienic coupling		17.80 (452)	Rd 34 × 1/8

Model H100

Code	Description					Dim. A	Dim. B
138	1-inch	Tri-Clamp compatible	316L	Hygienic fitting		20.98 (533)	1.98 (50)
230	DN25	DIN11851	316L	Hygienic coupling		21.95 (558)	Rd 52 × 1/6
668	1s	IDF	316L	Hygienic fitting	Type CLF2 W	20.97 (533)	1.98 (50)
677	DN25	DIN11864-1A	316L	Hygienic coupling		21.95 (558)	Rd 52 × 1/6

Model H200

Code	Description					Dim. A	Dim. B
352	2-inch	Tri-Clamp compatible	316L	Hygienic fitting		21.32 (541)	2.52 (64)
354	DN50	DIN11851	316L	Hygienic coupling		22.41 (569)	Rd 78 × 1/6
669	2s	IDF	316L	Hygienic fitting	Type CLF2 W	21.31 (541)	2.52 (64)
678	DN50	DIN11864-1A	316L	Hygienic coupling		22.41 (569)	Rd 78 × 1/6

Model H300

Code	Description					Dim. A	Dim. B
361	3-inch	Tri-Clamp compatible	316L	Hygienic fitting		35.15 (893)	3.58 (91)
664	DN76.1	ISO 2853 (IDF)	316L	Hygienic coupling		35.15 (893)	3.59 (91)
679	DN80	DIN11864-1A	316L	Hygienic coupling		35.15 (893)	Rd 110 × 1/4-7e 6e
680	DN80	DIN11864-2A	316L	Hygienic flange		35.15 (893)	5.24 (133)
685	DN80	DIN11851	316L	Hygienic coupling		35.15 (893)	Rd 110 × 1/4-7e 6e
687	3s	IDF	316L	Hygienic fitting	Type CLF2 W	35.15 (893)	3.58 (91)
694	DN76	SMS 1145	316L	Hygienic coupling		35.15 (893)	Rd 98 × 1/6-7e 6e

Ordering information

Model	Product description
	Standard surface finish
H025S	H-Series sensor; 1/4-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish
H050S	H-Series sensor; 1/2-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish
H100S	H-Series sensor; 1-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish
H200S	H-Series sensor; 2-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish
H300S	H-Series sensor; 3-inch; 316L stainless steel; 32 Ra (0.8 µm) surface finish
	Improved surface finish
H025F	H-Series sensor; 1/4-inch; 316L stainless steel; 15 Ra (0.38 µm) electro-polished surface finish
H050F	H-Series sensor; 1/2-inch; 316L stainless steel; 15 Ra (0.38 µm) electro-polished surface finish
H100F	H-Series sensor; 1-inch; 316L stainless steel; 15 Ra (0.38 µm) electro-polished surface finish
H200F	H-Series sensor; 2-inch; 316L stainless steel; 15 Ra (0.38 µm) electro-polished surface finish
H300F	H-Series sensor; 3-inch; 316L stainless steel; 15 Ra (0.38 µm) electro-polished surface finish
Code	Process connection
###	See fitting options on page 20.
Code	Case options
N	Standard case
B ⁽¹⁾	Secondary containment with test report
P ⁽¹⁾	Secondary containment with test report and purge fittings (1/2-inch NPT female)
Code	Electronics interface
0	Model 2400S transmitter
1	Extended mount Model 2400S transmitter
2	4-wire polyurethane-painted aluminum integral enhanced core processor for remote mount transmitters
3	4-wire stainless steel integral enhanced core processor for remote mount transmitters
4	4-wire polyurethane-painted aluminum integral extended mount enhanced core processor for remote mount transmitters
5	4-wire extended mount stainless steel integral enhanced core processor for remote mount transmitters
Q	4-wire polyurethane-painted aluminum integral core processor for remote mount transmitters
A	4-wire stainless steel integral core processor for remote mount transmitters
V	4-wire extended mount polyurethane-painted aluminum integral core processor for remote mount transmitters
B	4-wire extended mount stainless steel integral core processor for remote mount transmitters
C	Integral Model 1700/2700 transmitter
L	Integrally mounted FMT transmitter
K	Integrally mounted FMT transmitter with improved surface finish (64 Ra [1.6 µm])
Code	Conduit connections
	For electronics interface codes 0, 1, and C
A	M20 — no gland
	For electronics interface codes 2, 3, 4, 5, Q, A, V, and B
B	1/2-inch NPT — no gland
E	M20 — no gland
F	Brass/nickel cable gland (cable diameter 0.335 to 0.394 inches [8.5 to 10 mm])
G	Stainless steel cable gland (cable diameter 0.335 to 0.394 inches [8.5 to 10 mm])
Continued on next page	

(1) Not available with electronics interface options L or K.

Ordering information *continued*

Code	Approvals
For electronics interface codes 0, 1, L, and K	
M	Micro Motion standard (no approval)
N	Micro Motion standard / PED compliant
2	CSA C-US (U.S.A. and Canada) Class I, Div. 2
V	ATEX — Equipment Category 3 (Zone 2) / PED compliant
3	IECEX Zone 2
For electronics interface codes 2, 3, 4, 5, Q, A, V, B, and C	
M	Micro Motion standard (no approval)
N	Micro Motion standard / PED compliant
C ⁽¹⁾	CSA (Canada only)
A	CSA C-US (U.S.A. and Canada)
Z	ATEX — Equipment Category 2 (Zone 1) / PED compliant
I	IECEX Zone 1
Code	Language
A	Danish CE requirements and English installation manual
C	Czech installation manual
D	Dutch CE requirements and English installation manual
E	English installation manual
F	French installation manual
G	German installation manual
H	Finnish CE requirements and English installation manual
I	Italian installation manual
J	Japanese installation manual
M	Chinese installation manual
N	Norwegian CE requirements and English installation manual
O	Polish installation manual
P	Portuguese installation manual
S	Spanish installation manual
W	Swedish CE requirements and English installation manual
B	Hungarian CE requirements and English installation manual
K	Slovak CE requirements and English installation manual
T	Estonian CE requirements and English installation manual
U	Greek CE requirements and English installation manual
L	Latvian CE requirements and English installation manual
V	Lithuanian CE requirements and English installation manual
Y	Slovene CE requirements and English installation manual
Code	Future option 1
Z	Reserved for future use
Code	Calibration options
Z	0.15% flow and 0.002 g/cc density calibration
1	0.10% flow and 0.001 g/cc density calibration
Code	Future option 3
Z	Reserved for future use
Code	Factory options
Z	Standard product
X	ETO product
Typical model number: H025S 121 N 0 A V E Z Z Z Z	

(1) Available only with electronics option codes Q, A, V, and B.

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