# Rosemount 8721 Sanitary Magmeter Flowtube

# THE 8721 SANITARY FLOWTUBE:

- Designed for food, beverage, and pharmaceutical applications
- · Stainless steel, all welded body
- Available with a variety of process connections
- · Suitable for CIP/SIP
- Flowtube Inside Diameter (ID) matches sanitary process pipe ID with no steps



CE SEFEDGE

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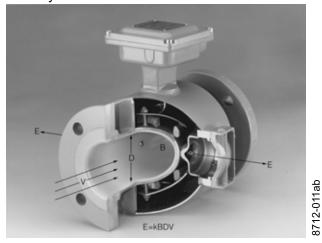
# The Rosemount 8721 Sanitary Magmeter Flowtube Delivers Reliability, Stability, and Performance

#### **OPERATION**

The operating principle of the magnetic flowmeter system is based upon Faraday's Law of electromagnetic induction, which states that a voltage will be induced in a conductor moving through a magnetic field.

Faraday's Law: E=kBDV

The magnitude of the induced voltage **E** is directly proportional to the velocity of the conductor **V**, conductor width **D**, and the strength of the magnetic field **B**. The figure below of a Rosemount 8705 flowtube illustrates the relationship between the physical components of the magnetic flowmeter and Faraday's Law.





This product is a core component of the PlantWeb digital plant architecture.

Magnetic field coils placed on opposite sides of the pipe generate a magnetic field. As the conductive process liquid moves through the field with average velocity **V**, electrodes sense the induced voltage. The width of the conductor is represented by the distance between electrodes. An insulating liner prevents the signal from shorting to the pipe wall.

The only variable in this application of Faraday's Law is the velocity of the conductive liquid **V** because field strength is controlled constant and electrode spacing is fixed. Therefore, the output voltage **E** is directly proportional to liquid velocity, resulting in the inherently linear output of a Rosemount Magnetic Flowmeter.

## Rosemount 8721

The Rosemount 8721 Sanitary Magnetic Flowtube is specifically designed for food, beverage, and pharmaceutical applications. The product contact surfaces are constructed of materials conforming to FDA requirements materials and are designed in accordance with 3-A standards. The flowtube is CIP/SIP cleanable and the flowtube ID matches the process piping to allow the flowtube to be pigged with the process piping. The 8721 is available with a variety of standard sanitary process connections and is easily adapted for other process conditions. The all stainless steel meter body is fully welded. Critical junctures are potted to provide a hermetic seal, protecting the internal components and wiring from pressurized steam, water, and sanitation chemicals.

- Conforms to 3-A sanitary standards and authorized to display 3-A symbol Authorization #1222.
- European Hygienic Equipment Design Group (EHEDG) Type EL Certified, Certification #C03-5229
- Approved for use in Grade A Milk Meter-Based Timing Systems. M-b 350.

# **Rosemount 8721 Sanitary Flowtube Specifications**

#### NOTE

All transmitter specifications can be found in the Product Data Sheet 00813-0100-4727.

# **Functional Specifications**

#### Service

Conductive liquids and slurries

#### **Line Sizes**

<sup>1</sup>/2 -4 inch (15–100 mm)

#### Flowtube Compatibility and Interchangeability

The Rosemount 8721 Flowtubes are interchangeable with Rosemount 8732, 8742, and 8712D transmitters. System accuracy is maintained regardless of line size or optional features. Each flowtube nameplate has a sixteen-digit calibration number that can be entered into the transmitter through the Local Operator Interface (LOI) or the HART Communicator. No further calibration is necessary.

#### Flowtube Compensation

Rosemount flowtubes are flow-calibrated and assigned a calibration factor at the factory. The calibration factor is entered into the transmitter, enabling interchangeability of flowtubes without calculations or a compromise in accuracy.

#### **Conductivity Limits**

Process liquid must have a conductivity of 5 microsiemens/cm (5 micromhos/cm) or greater. Excludes the effect of interconnecting cable length in remote mount transmitter installations.

#### Flowtube Coil Resistance

 $5\Omega$  to  $10\Omega$  (line size dependant)

#### Flow Rate Range

Capable of processing signals from fluids that are traveling between 0.04 and 33 ft/s (0.01 to 10 m/s) for both forward and reverse flow in all flowtube sizes. Full scale continuously adjustable between –33 and 33 ft/s (–10 to 10 m/s).

#### **Flowtube Ambient Temperature Limits**

14 to 140 °F (-15 to 60 °C)

#### **Process Temperature Limits**

#### **PFA Lining**

-20 to 350 °F (-29 to 177 °C)

#### **Pressure Limits**

Line Size	Max Working Pressure	CE Mark Max. Working Pressure
<sup>1</sup> /2 (15)	300 psi (20.7 bar)	300 psi (20.7 bar)
1 (25)	300 psi (20.7 bar)	300 psi (20.7 bar)
1 <sup>1</sup> /2 (40)	300 psi (20.7 bar)	300 psi (20.7 bar)
2 (50)	300 psi (20.7 bar)	300 psi (20.7 bar)
2 <sup>1</sup> /2 (65)	300 psi (20.7 bar)	240 psi (16.5 bar)
3 (80)	300 psi (20.7 bar)	198 psi (13.7 bar)
4 (100)	210 psi (14.5 bar)	148 psi (10.2 bar)

#### Vacuum Limits

Full vacuum at maximum lining material temperature; consult factory.

#### **Submergence Protection (Flowtube)**

IP68. Continuous to 30 ft (10 m).

# **Performance Specifications**

(System specifications are given using the frequency output and with the unit at referenced conditions).

#### **Accuracy**

#### Rosemount 8732, 8742, or 8712D with 8721 Flowtube

System accuracy is  $\pm 0.5\%$  of rate from 1 to 30 ft/s (0.3 to 10 m/s); includes combined effects of linearity, hysteresis, repeatability, and calibration uncertainty; between 0.04 and 1.0 ft/s (0.01 and 0.5 m/s), the system has an accuracy of  $\pm 0.005$  ft/s. Analog output has the same accuracy as frequency output plus an additional 0.1% of span.

#### Repeatability

±0.1% of reading

## **Response Time**

0.2 seconds maximum response to step change in input

#### Stability

±0.1% of rate over six months

#### **Ambient Temperature Effect**

±1% per 100 °F (37.8 °C)

## **Mounting Position Effect**

None when installed to ensure flowtube remains full.

Catalog 2006 - 2007

# Rosemount 8721

# **Physical Specifications**

#### Mounting

Integrally mounted transmitters are factory-wired and do not require interconnecting cables. The transmitter can rotate in 90° increments. Remote mounted transmitters require only a single conduit connection to the flowtube.

#### **Cable Requirements for Remote Transmitters**

TABLE 1. Transmitter Input Power

Description	P/N
Signal Cable (20 AWG) Belden 8762,	08712-0061-0001
Alpha 2411 equivalent	
Coil Drive Cable (14 AWG) Belden 8720,	08712-0060-0001
Alpha 2442 equivalent	
Combination Signal and Coil Drive Cable	08712-0752-0001

Remote transmitter installations require equal lengths of signal and coil drive cables. Lengths from 5 to 1,000 feet (1.5 to 300 meters) may be specified, and will be shipped with the flowtube. When ordering the combination cable, the lengths specified must be from 5 to 500 feet (1.5 to 150 meters). For optimum performance, separate signal and coil cables are recommended.

#### Non-Wetted Materials (Flowtube)

#### **Flowtube**

304 Stainless Steel (wrapper), 304 Stainless Steel (pipe)

#### **Terminal Junction Box**

Cast aluminum, polyurethane coated

Optional: 304 Stainless Steel

#### **Paint**

Polyurethane

## Weight

TABLE 2. 8721 Flowtube weight (pounds)

Line Size	Flowtube Only	008721-0350 Tri-Clamp fitting (each)
0.5	4.84	0.58
1.0	4.52	0.68
1.5	5.52	0.88
2.0	6.78	1.30
2.5	8.79	1.66
3.0	13.26	2.22
4.0	21.04	3.28

#### 8732C Transmitter

5.25 pounds

#### 8732C Transmitter with LOI

6.90 pounds

#### Aluminum remote junction box

1.84 pounds

#### **Process Wetted Materials (Flowtube)**

#### Liner

PFA with Ra <  $32\mu$ inch (0.81 $\mu$ m)

#### **Electrodes**

316L SST with Ra < 15μinch (0.38μm) Hastelloy C-276 with Ra < 15μinch (0.38μm) 90% Platinum-10% Iridium with Ra < 15μinch (0.38μm)

#### **Process Connections**

The Rosemount 8721 Sanitary Flowtube is designed using a standard IDF fitting as the basis for providing a flexible, hygienic interface for a variety of process connections. The Rosemount 8721 Flowtube has the threaded or "male" end of the IDF fitting on the ends of the base flowtube. The flowtube can be directly connected with user supplied IDF fittings and gaskets. If other process connections are needed, the IDF fittings and gaskets can be provided and welded directly into the sanitary process tubing, or can be supplied with adapters to standard Tri-Clamp® process connections.

#### Tri-Clamp® Sanitary Coupling

#### IDF Sanitary Coupling (screw type)

IDF specification per BS4825 part 4

#### Weld Nipple

**DIN 11851** 

**DIN 11864** 

**SMS 1145** 

Cherry-Burrell I-Line

#### **Process Connection Material**

316L Stainless Steel with Ra < 32µinch (0.81µm)

Optional Electropolished Surface Finish

with Ra <  $15\mu$ inch ( $0.38\mu$ m)

The process connection welds for sizes 1" through 4" are ground and polished. The process connection welds on 1/2" fittings are not ground and polished.

#### **Process Connection Gasket Material**

Silicone

**EPDM** 

Viton

#### **Electrical Connections (Flowtube)**

Two <sup>3</sup>/4–14 NPT connections with number 8 screw terminals are provided in the terminal enclosure for electrical wiring.

## **Flowtube Dimensions**

Refer to Figure 1

# **Product Certifications**

#### **Ordinary Location Certification for Factory Mutual**

As standard, the transmitter has been examined, tested, and approved to meet basic electrical, mechanical, and fire protection requirements by FM, a nationally recognized testing laboratory (NRTL) as accredited by the Federal Occupational Safety and Health Administration (OSHA).

N0 Factory Mutual (FM) Ordinary Location;

Certificate Number: 3015960

Canadian Standards Association (CSA) Ordinary Location;

Certificate Number: 1428285

Class 2252 03 - Process Control Equipment

Rated 0.5A dc, 60°C

CE Marking; 3-A Symbol Authorization #1222;

**EHEDG Type EL** 

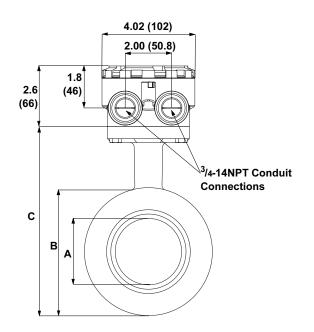
NA No hazardous area approval; CE Marking; 3-A Symbol

Authorization #1222; EHEDG Type EL

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# **Dimensional Drawing**

FIGURE 1. Dimensional Drawings of Rosemount 8721 Flowtubes Typical of 1 through 4inch (25 through 100mm) line sizes.



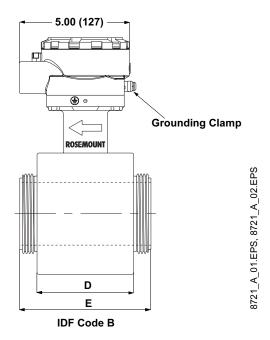


TABLE 3. Rosemount 8721 Dimensions in Inches (Millimeters). Refer to Dimensional Drawing Figure 1.

Line Size	Flowtube Dimensions A	Body Diameter B	Flowtube Height C	Body Length D	IDF Length E
<sup>1</sup> /2 (15)	0.62 (15.8)	2.87 (73.0)	5.51 (140.0)	2.13 (54.0)	3.66 (93.0)
1 (25)	0.87 (22.2)	2.87 (73.0)	5.51 (140.0)	2.13 (54.0)	3.66 (93.0)
1 <sup>1</sup> /2 (40)	1.37 (34.9)	3.50 (88.9)	6.14 (155.9)	2.40 (61.0)	3.96 (100.5)
2 (50)	1.87 (47.6)	4.00 (101.5)	6.63 (168.5)	2.83 (72.0)	4.41 (112.0)
2 <sup>1</sup> /2 (65)	2.38 (60.3)	4.53 (115.0)	7.17 (182.0)	3.58 (91.0)	5.23 (133.0)
3 (80)	2.87 (73.0)	5.57 (141.5)	8.21 (208.5)	4.41 (112.0)	5.98 (152.0)
4 (100)	3.84 (97.6)	6.98 (177.0)	9.61 (244.0)	5.20 (132.0)	6.77 (172.0)

FIGURE 2. Dimensional Drawings of Rosemount 8721 Flowtubes Typical of 1 through 4inch (25 through 100mm) line sizes

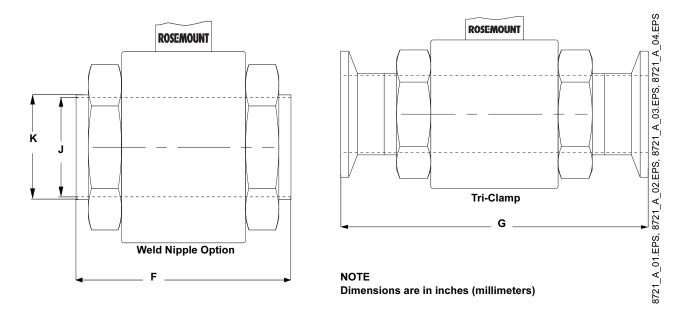


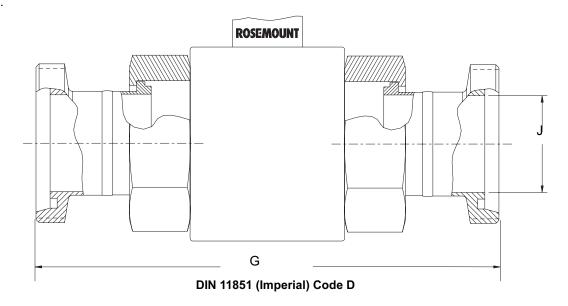
TABLE 4. Rosemount 8721 Process Connection Lay Length in Inches (Millimeters). Refer to Figure 2.

Line Size	Weld Nipple Length F	Weld Nipple Tube ID J	Weld Nipple Tube OD K	Tri Clamp Length G	HP Option Length G	DIN 11851 (Met and Imp) Length G	DIN 11851 (Met and Imp) ID J	DIN 11851 (Metric) ID J
<sup>1</sup> /2 (15)	5.61 (142)	0.62 (15.75)	0.75 (19.05)	8.31 (211)	NA	8.33 (211)	0.62 (15.75)	0.79 (19.99)
1 (25)	5.61 (142)	0.87 (22.2)	1.00 (25.65)	7.85 (199)	9.85 (250)	7.89 (200)	0.85 (21.52)	1.02 (26.01)
1 <sup>1</sup> /2 (40)	5.92 (150)	1.37 (34.9)	1.68 (42.7)	8.17 (207)	9.91 (252)	8.53 (217)	1.37 (34.85)	1.50 (38.00)
2 (50)	6.35 (161)	1.87 (47.6)	2.01 (51.05)	8.60 (218)	9.91 (252)	9.10 (231)	1.87 (47.60)	1.97 (50.01)
2 <sup>1</sup> /2 (65)	7.18 (182)	2.37 (60.3)	2.51 (63.75)	9.43 (239)	9.91 (252)	10.33 (262)	2.37 (60.30)	2.60 (65.99)
3 (80)	7.93 (201)	2.87 (73.0)	3.01 (76.45)	10.18 (258)	9.91 (252)	11.48 (291)	2.87 (72.97)	3.19 (81.03)
4 (100)	9.46 (240)	3.84 (97.6)	4.01 (101.85)	11.70 (297)	NA	13.72 (349)	3.84 (97.61)	3.94 (100.00)

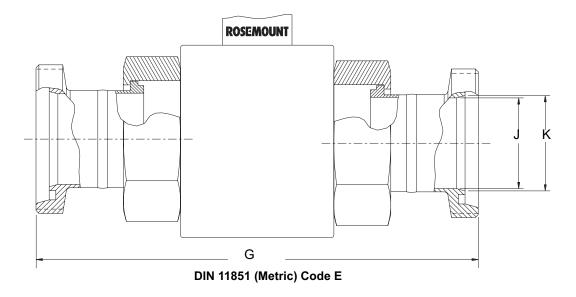
Line Size	DIN 11864-1 Length G	DIN 11864-2 Length G	SMS 1145 Length G	Cherry-Burrell I-Line Length G
<sup>1</sup> /2 (15)	NA	NA	NA	NA
1 (25)	8.98 (228.0)	8.86 (225.0)	6.87 (174)	7.17 (182)
1 <sup>1</sup> /2 (40)	9.72 (247.0)	9.57 (243.0)	7.50 (190)	7.80 (198)
2 (50)	10.16 (258.0)	10.00 (254.0)	7.93 (201)	8.42 (214)
2 <sup>1</sup> /2 (65)	11.89 (302.0)	11.54 (293.0)	9.07 (230)	9.49 (241)
3 (80)	12.95 (329.0)	12.44 (316.0)	9.82 (249)	10.37 (263)
4 (100)	14.57 (370.0)	14.21 (361.0)	11.67 (296)	12.15 (309)

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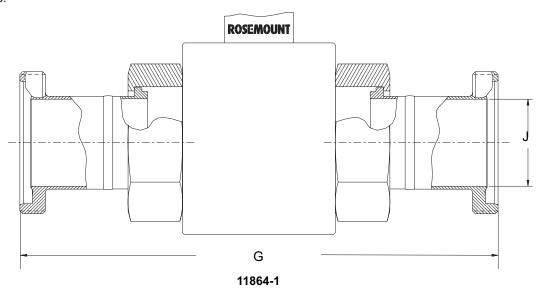
# FIGURE 3.



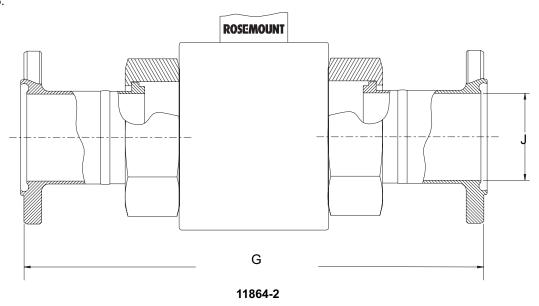
# FIGURE 4.



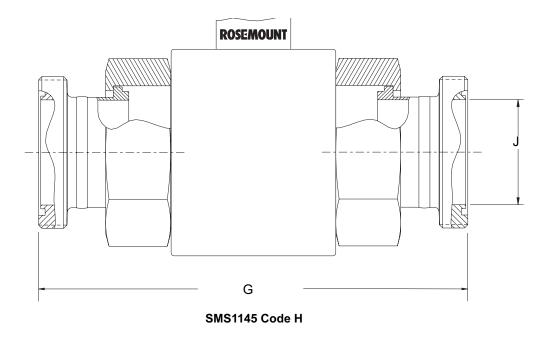
# FIGURE 5.



# FIGURE 6.



# FIGURE 7.



# FIGURE 8.

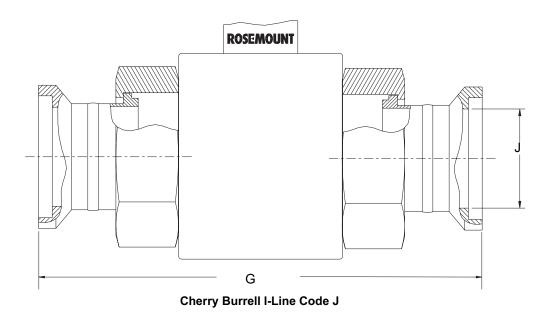
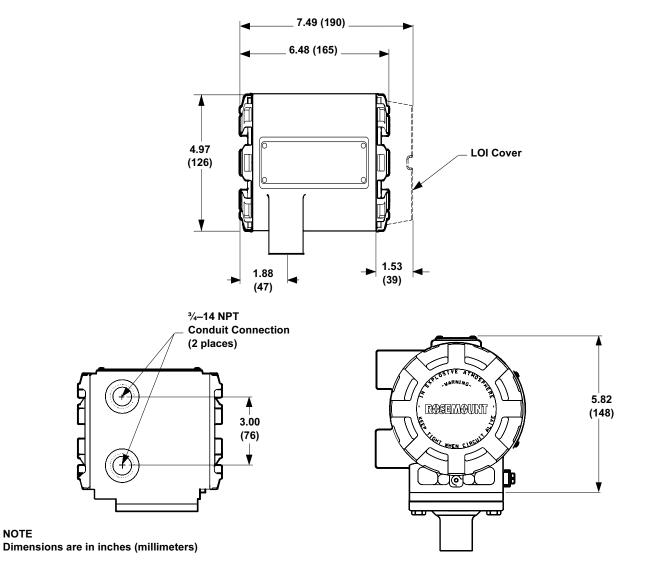


FIGURE 9. Rosemount 8732/8742 Dimensional Drawings



# **Magnetic Flowmeter Sizing**

# Flowmeter Sizing

Because of its effect on flow velocity, flowtube size is an important consideration. It may be necessary to select a magnetic flowmeter that is larger or smaller than the adjacent piping to ensure the fluid velocity is in the specified measuring range of the flowtube. Suggested guidelines and examples for sizing normal velocities in different applications are listed in Table 5 and Table 6. Operation outside these guidelines may also give acceptable performance.

TABLE 5. Sizing Guidelines

Application	Velocity Range (ft/s)	Velocity Range (m/s)
Normal Service	2–20	0.6–6.1
Abrasive Slurries	3–10	0.9–3.1
Non-Abrasive Slurries	5–15	1.5–4.6

To convert flow rate to velocity, use the appropriate factor listed in Table 5 and the following equation:

#### **Example: SI Units**

Magmeter Size: 100 mm (factor from Table 6 = 492.0)

Normal Flow Rate: 800 L/min

 $Velocity = \frac{800 \text{ (L/min)}}{492.0}$ 

Velocity = 1.7 m/s

## **Example: English Units**

Magmeter Size: 4 inch (factor from Table 6 = 39.679)

Normal Flow Rate: 300 GPM

 $Velocity = \frac{300 \text{ (gpm)}}{39.679}$ 

Velocity = 7.56 ft/s

TABLE 6. Line Size vs. Conversion Factor

Nominal Line Size Inches (mm)	Gallons Per Minute Factor	Liters Per Minute Factor
<sup>1</sup> /2 (15)	0.941	11.67
1 (25)	2.693	33.407
1½ (40)	6.345	78.69
2 (50)	10.459	129.7
2½ (65)	14.922	185.0
3 (80)	23.042	285.7
4 (100)	39.679	492.0

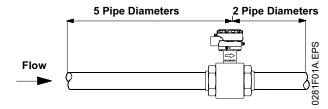
TABLE 7. Line Size vs. Velocity/Rate

	Minimum/Maximum Flow Rate							
Nominal		Gallons p	oer Minute			Liters p	er Minute	
Line Size in Inches (mm)	at 0.04 ft/s (Low-flow Cutoff)	at 1 ft/s (Min Range Setting)	at 3 ft/s	at 30 ft/s (Max Range Setting)	at 0.012 m/s (Low-flow Cutoff)	at 0.3 m/s (Min Range Setting)	at 1 m/s	at 10 m/s (Max Range Setting)
<sup>1</sup> /2 (15)	0.038	0.941	2.82	28.23	0.14	3.50	11.67	116.7
1 (25)	0.108	2.694	8.08	80.813	0.41	10.18	33.40	334.07
1 <sup>1</sup> /2 (40)	0.254	6.345	19.03	190.36	0.96	23.98	78.69	786.9
2 (50)	0.418	10.459	31.37	313.77	1.58	39.54	129.7	1,297
2 <sup>1</sup> /2 (65)	0.597	14.922	44.77	447.66	2.22	55.51	185.0	1,850
3 (80)	0.922	23.042	69.12	691.26	3.49	87.10	285.7	2,857
4 (100)	1.588	36.679	119.0	1,190.4	6.00	138.6	492.0	4,920

## **Upstream/Downstream Piping Length**

To ensure specification accuracy over widely varying process conditions, install the flowtube with a minimum of five straight pipe diameters upstream and two straight pipe diameters downstream from the electrode plane. See Figure 10. This procedure should adequately allow for disturbances created by elbows, valves, and reducers.

FIGURE 10. Upstream and Downstream Straight Pipe Diameters



## **Flowtube Grounding**

A reliable ground path is required between the flowtube and the process fluid. Grounding straps provided with the unit can be used to ensure proper grounding in installations with conductive, unlined pipes.

# **Sanitary Fitting Torque**

Tighten fittings to normal hard hand tight (approximately 50 in-lbs [5½ Newton-meters (N-m)]) of torque. Re-tighten after a few minutes until there are no leaks (up to 130 in-lbs [14½ Newton-meters (N-m)] of torque). Fittings that continue to leak at a higher torque may be distorted or damaged.

Compression - limiting gaskets are used to meet EHEDG Document 8 requirements. These gaskets limit over-torque.

# **Material Selection**

Electrode materials and electrode types are available on Rosemount Magnetic Flowtubes to ensure compatibility with virtually any application. See Table 8 for information on liner types and Table 9 for information on electrode materials. For further guidance on selecting materials, refer to the Magnetic Flowmeter Material Selection Guide located on Rosemount.com (document number 00816-0100-3033).

TABLE 8. Lining Material

•	
Lining Material	General Characteristics
PFA	<ul> <li>Highly chemical resistant</li> </ul>
	Excellent high temperature
	capabilities
	<ul> <li>Approved for use in food,</li> </ul>
	beverage, pharmaceutical,
	and biotech applications

TABLE 9. Electrode Material

<b>Electrode Material</b>	General Characteristics
316L Stainless Steel	<ul> <li>Good corrosion resistance</li> <li>Good abrasion resistance</li> <li>Not recommended for sulfuric or hydrochloric acids</li> </ul>
Hastelloy C-276	<ul><li>Better corrosion resistance</li><li>High strength</li><li>Good in slurry applications</li><li>Effective in oxidizing fluids</li></ul>
90% Platinum - 10% Iridium	Best chemical resistance     Expensive material

TABLE 10. Gasket Material

Property	BUNA-N <sup>(1)</sup>	EPDM <sup>(2)</sup>	Silicone	Viton <sup>® (2)</sup>
Tensile Strength	Fair-Good	Good-Excellent	Good	Good-Excellent
Electrical Properties	Poor	Excellent	Excellent	Good
Weather Resistance	Good	Excellent	Excellent	Good
Ozone Resistance	Fair	Excellent	Excellent	Excellent
Heat Resistance	Good (225°F)	Excellent (275°F)	Excellent (450°F)	Excellent (400°F)
Cold Resistance	Fair-Good (-40°F)	Good-Excellent (-55°F)	Excellent (-80°F)	Good (-20°F)
Steam Resistance	Good	Good	Poor	Good
Tear Resistance	Good	Good	Excellent	Fair
Abrasion Resistance	Good	Good-Excellent	Good-Excellent	Good
Acid Resistance	Good	Good-Excellent	Good	Good
Petroleum Oil	Excellent	Poor	Good	Excellent
Flame Resistance	Poor	Poor	Poor	Good
Vegetable Oil	Good	Good (Most)	Good (Intermittent)	Excellent

- (1) Buna-N is not available. Characteristics shown for reference purposes only.
- (2) EPDM or Viton is recommended for ozone treated water.

# **Ordering Information**

# **ROSEMOUNT 8721 ORDERING INFORMATION**

Model	Product Description	Availability
8721	Sanitary Magnetic Flowmeter	•
Code	Lining Material	
А	PFA PFA	•
Code	Electrode Material	
S	316L SST (standard)	•
Н	Hastelloy C-276	•
P	90% Platinum-10% Iridium	•
Code	Electrode Construction	
А	Standard measurement electrodes	•
Code	Line Sizes	
005	15 mm ( <sup>1</sup> / <sub>2</sub> inch)	
010	25 mm (1 inch)	•
015	40 mm (1 <sup>1</sup> / <sub>2</sub> inch)	•
020	50 mm (2.0 inch)	•
025	65 mm (2 <sup>1</sup> / <sub>2</sub> inch)	•
030	80 mm (3.0 inch)	•
040	100 mm (4.0 inch)	•
Code	Transmitter Mounting Configuration	
R	Remote, for use with 8712, or remote version of 8732/8742 transmitter	•
U	Integral, mounted to 8732/8742 transmitter	•
Χ	Flowtube only (does not include terminal junction box)	•
Code	Process Connection Type	
Α	Tri-Clamp (1)	•
В	IDF Sanitary screw type (2)	•
С	Weld nipple (2)	•
D	DIN 11851 (Imperial)	•
E	DIN 11851 (Metric)	•
F	DIN 11864-1 form A	•
G	DIN 11864-2 form A	•
Н	SMS Connection	•
J	Cherry-Burrell I-Line	•
Code	Process Gasket Material	
1	Silicone gasket seal	•
2	EPDM	•
4	Viton	•
8	EPDM Compression - limiting (3)	•
9	Viton Compression - limiting (3)	•
Х	No gasket (User supplied; only applicable with Process Connection B)	<u> </u>
	CONTINUE ON NEXT PAGE	

# Rosemount 8721

	Code
•	N0
	Code
•	AH
•	D1
•	D3
•	HD
•	HP
•	J1
•	J2
•	Q4
•	Q8
•	SJ

- (1) Tri-Clamp specification per BPE-2002
- (2) IDF Specification per BS4825 Part 4
- (3) EHEDG Document 8 requires mechanical compression limiting, provided by Compression limiting gaskets for line sizes 1- 4 inch only.

# **Tagging**

The flowtube and transmitter will be tagged, at no charge, in accordance with customer requirements.

The standard polyester nameplate is permanently adhered to the flowtube.

The Tag character height is 0.09 in. (2.3 mm);

2 lines of 20 characters each.

The Tag may be printed on the flowtube and/or transmitter nameplate upon request.

# **Ordering Procedure**

To order, select the desired flowtube and/or transmitter by specifying model codes from the ordering table.

For remote transmitter applications, note the cable specification requirements.

# ROSEMOUNT SMART FAMILY® INSTRUMENTS

Rosemount SMART FAMILY instruments include pressure, temperature, level, and flow measurement.

All SMART FAMILY instruments are designed to communicate using HART (Highway Addressable Remote Transducer) protocol with the hand-held HART Communicator and Emerson Process Management Control Systems.

# **Product Data Sheet**

00813-0100-4901, Rev GA Catalog 2006 - 2007

Rosemount 8721

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All other marks are the property of their respective owners.

HART is a registered trademark of the HART Communication Foundations.

Foundation is a trademark of the Fieldbus Foundation.

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