



PRODUCT DATASHEET

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Rosemount™ Hx338+

Steam Sterilizable and Autoclavable Pre-Pressurized pH Sensor



A pre-pressurized sensor for high performance sanitary pH measurements

The maintenance-free Rosemount Hx338+ pH sensor is ideal for pharmaceutical, chemical, and biotechnology industry applications where autoclaving, steam-in-place (SIP), and clean-in-place (CIP) procedures occur frequently.



A robust sensor design

- Able to withstand autoclaving, steam-in-place, and clean-in-place procedures.
- Maximum operating temperature up to 140 °C (284 °F).
- Maximum pressure up to 6 bar.
- Available in 120 mm (4.7 in.) insertion length.
- Pre-pressurized reference electrode prevents clogging of diaphragm junction.

Ease of installation

- Eliminate cable twisting with Variopol (VP6) cable connection for quick cable-to-sensor release.

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Ordering information



The Rosemount Hx338+ pH sensor features a pre-pressurized electrolyte and integral Pt-100 RTD for temperature compensation. These sensors come with a VP6 cable connection and are compatible with VP8 mating cables. Variopol cables sold separately (see Accessories).

Table 1 -Rosemount Hx338+ pH Sensor Ordering Information

Model	Sensor type
Hx338+	pH sensor
Sensor length	
01	120 mm (4.7 in.)
Cable connection	
72	Pt-100 RTD with Variopol (VP6) connector (requires accessory mating cable)
Typical model number: Hx338+-01-72	

Specifications

Rosemount Hx338+ pH Sensor

Measuring method: Combination electrode; pH potential measured against reference electrode

Range: 0 to 14 pH

Sensitivity: 57 to 59 mV/pH at 25 °C (77 °F)

Wetted materials: Glass, EPDM (FDA Approved)

Operating temperature range: 0 to 140 °C (32 to 284 °F)

Pressure range: 0 to 6 bar

Minimum conductivity of sample: 100 µS/cm

Temperature sensor: Pt-100

Diameter: 12 mm (.5 in.)

Process connection: PG 13.5

Compatible transmitters: All Rosemount pH transmitters

Shelf life: Standard is 1 year from manufacturing date. Follow refresh procedure in Quick Start guide at 1 year and 18 months to extend shelf life to a maximum of 2 years.

Insertion mounting assembly (PN 9160478)

Mechanical connection: G 1¼ in.

Total length: 133 mm (5.23 in.)

Maximum diameter: 50 mm (1.96 in.)

Materials of construction: 316L stainless steel/DIN 1.4435, FDA-EPDM (O-ring)

Surface finish: < 16 micro inch Ra

Temperature range: 0 to 135 °C (32 to 275 °F)

Maximum pressure: 6 bar (87 psi)

Insertion length: 48 mm (1.89 in.)

Compatible sensors: Hx338+ -01-72, all electrodes with PG 13.5 threads and 120 mm length

Mounting accessory needed for installation: PN 9160483 weld-in socket or other G 1¼ in. threaded socket



Dimensional drawings

Figure 1. Rosemount Hx338+ 120 mm

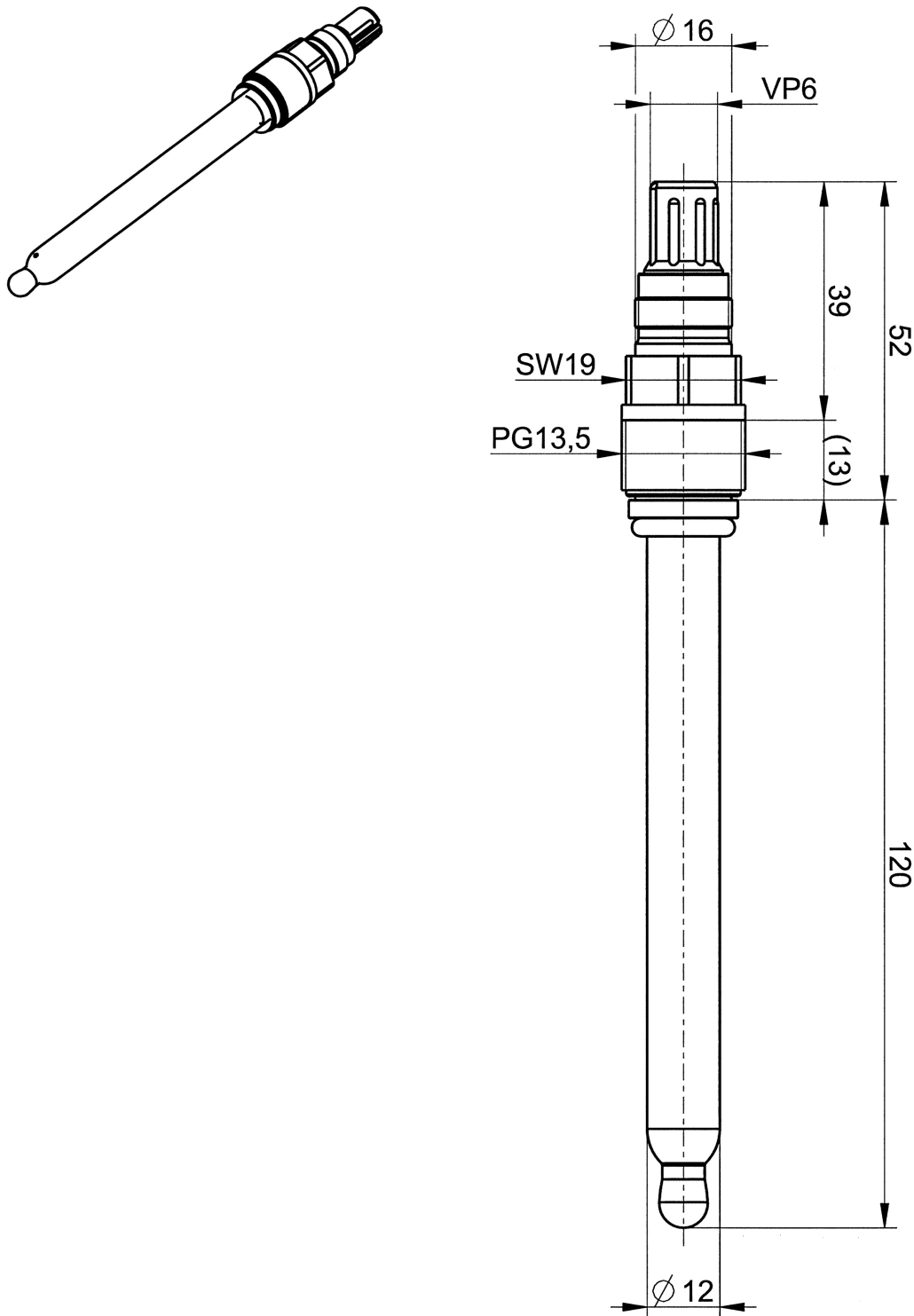
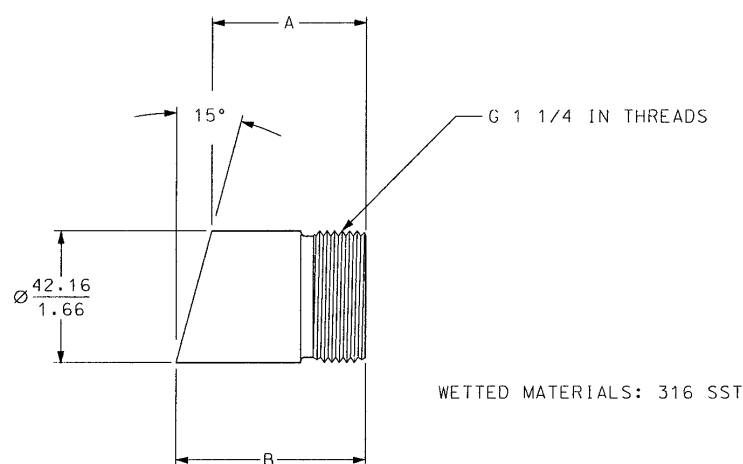


Figure 2. Weld-in socket PN 9160483



WELD-IN SOCKET PART NUMBER	DIMENSION			
	A		B	
9160483	44	1.74	55	2.17

Accessories

Part number	Description
24281-00	15 ft (4.6 m) cable with mating VP8 connector
24281-01	25 ft (7.6 m) cable with mating VP8 connector
24281-02	2.5 ft (.8 m) cable with mating VP8 connector
24281-05	4 ft (1.2 m) cable with mating VP8 connector
24281-06	10 ft (3 m) cable with mating VP8 connector
24281-07	20 ft (6 m) cable with mating VP8 connector
24281-08	30 ft (9.1 m) cable with mating VP8 connector
9160478	Insertion assembly, 48 mm insertion for 120 mm sensor, G 1 1/4 in.
9160483	15 degree weld-in socket, G 1 1/4 in. thread, 44 mm
9160484	Service kit for insertion mounting assembly
9210012	Buffer solution, pH 4.01, 16 oz
9210013	Buffer solution, pH 6.86, 16 oz
9210014	Buffer solution, pH 9.18, 16 oz

Notes

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