



## A reliable, cost effective means of sensing water in various applications

### Features

These probes can be mounted directly to the pressure vessel or column. The probes are brazed welded stainless steel HP and IP electrode with zirconia insulator (3000 psig @ saturation, up to 1000°F [207 barg @ saturation, up to 532°C]) or threaded stainless steel LP electrode with Teflon® insulator (850 psig @ 525°F [58 barg @ 274°C]). Based on the conductivity probe technology now widely accepted in the industry, it was specially designed to meet increasing demand for a reliable, cost effective means of sensing water in various applications.

### Specifications

#### HP Probe

- Brazed stainless steel with zirconia insulator
- 3000 psig @ saturation, up to 1000°F [207 barg @ saturation, up to 532°C]

#### LP Probe

- Threaded 3/8" NPT stainless steel with Teflon® insulator
- 850 psig @ 525°F [58 barg @ 274°C]

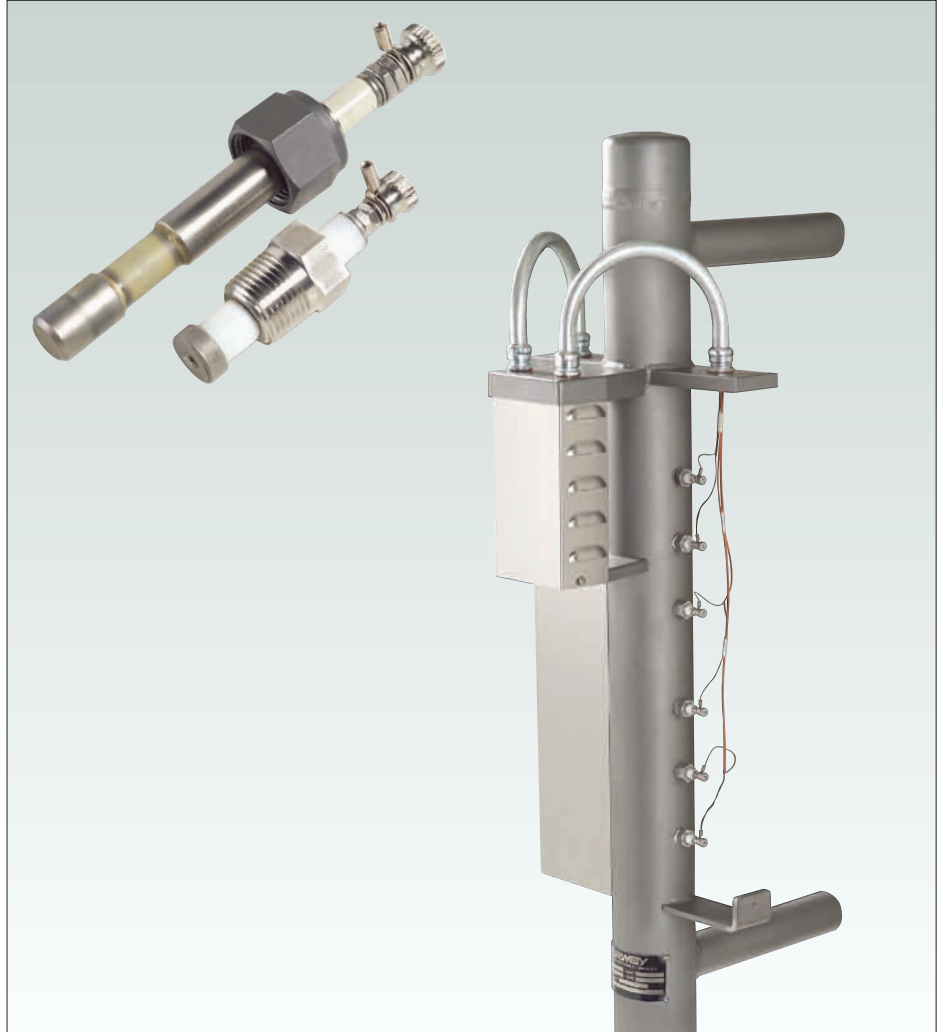
### Fittings

#### HP Fittings

- 1 1/2" [40 mm] socketweld male adapter
- 1 1/2" [40 mm] tee
- Type "A"
- Custom fittings with probe adapter

#### LP Fittings

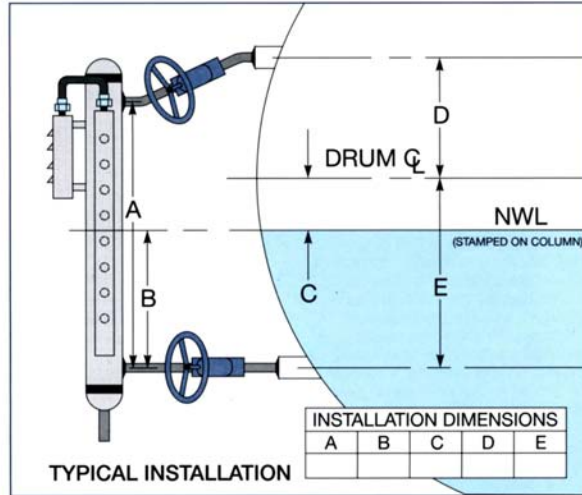
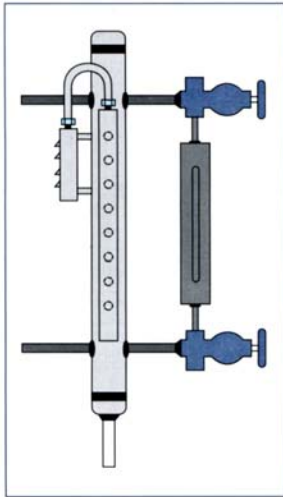
- 1" [25 mm] socketweld male adapter
- 1 1/2" [40 mm] socketweld male adapter
- Custom fittings with probe adapter



Total Flow Control Solutions™

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## Water Columns



### Ratings

3000 psig [207 barg] @ saturation  
 1800 psig [124 barg] @ saturation  
 850 psig [58 barg] @ saturation

### Materials of Construction

Seamless Pipe and 1 1/2" NPS [40 mm] vessel stub fittings (8" length) and 3/4" NPS [20 mm] stub drain connections. Standard water column is NPS 3, 36" [758 mm] length. Pipe schedules: [3000 psig] XXS, [1800 psig] Sch 160 and [850 psig] Sch 160. Probe covers are stainless steel IP32. Each standard 36" [758 mm] comes with 36" HT probe wires extending from the conduit connection.

- Optional:
- Remote junction box (Type 4X/IP67)
  - Prewired column mounted junction box (Type 3R/IP22)
  - Extended length column over 36" [758 mm]
  - NPS 2 and NPS 3 vessel fittings
  - Redundant probe level indication (requires NPS 4 column)
  - Isolation and Drain Valves
  - NPS 3/4" vent connection
  - Flanged or Female socket weld connections
  - Insulation heat jacket
  - Weldolet/Bossets on connections
  - Welded support brackets

### Manufacturer's Standard Materials

SA 106 gr B UNS K03006 to  $T_{max} = 1000^{\circ}\text{F}$  [538°C] EN 10210-1, S275J0H

Optional:

SA 335 gr P22 UNS K21590 to  $T_{max} = 1200^{\circ}\text{F}$  [649°C] EN 10210-1, S275J0H

SA 312 TP316 UNS S31600 to  $T_{max} = 1500^{\circ}\text{F}$  [816°C] DIN 17175 X5CrNiMo17-12-2/1.4401

### Extended delivery time optional materials

SA 335 gr P11 UNS K11597 to  $T_{max} = 1200^{\circ}\text{F}$  [649°C] DIN 17175 13CrMo 4 4 (1.7335)

SA 335 gr P91 UNS K90901 to  $T_{max} = 1200^{\circ}\text{F}$  [649°C] DIN 17175 X20CrMoV 12 1 (1.4922)

SA 312 TP304 UNS S30400 to  $T_{max} = 1500^{\circ}\text{F}$  [816°C] DIN 17175 X5CrNi 18-10/1.4301

$T_{max}$  established by ASME B&PV Code Sect IID EN/DIN material = closest equivalent

### Density error correction options

1. Steam heating tube for overall span density error correction.
2. Probe placement offset for single user specified operating point error correction.

### Note

1. Teflon® is a registered trademark of E.I. du Pont de Nemours and Company.

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