BC Series Bypass Chamber for Level Measurement

The BC Series Bypass Chambers are used extensively in process plants for level measurement application. Due to possible interferences in the process vessels or storage tanks, a bypass chamber allows the level measurement transmitter to have an accurate and stable environment to operate. The chamber is designed with process parameters in mind and can withstand pressure up to 320bar and temperature up to 600°C.

Suitability

The Bypass Chamber is suitable but not limited for use by the following products:

Level Switches:

- Float Level Switches
- Vibrating Fork Level Switches
- Displacer Level Switches

Level Transmitters:

- Guided Radar Level Transmitters
- FMCW Radar Level Transmitters
- Pulse Radar Level Transmitters
- Magnetostrictive Level
- Ultrasonic Level Transmitters
- Capacitance Level Transmitters
- Hydrostatic Level Transmitters

Tests & Certificates

BC Series Bypass Chambers could be tested and various certificates can be issued for each individual chamber.

- Positive Material Identification Test
- Radiography Test (ASME B16.34 Appendix 1)
- Hydrostatic Pressure Test (ASME B16.5)
- Dye Penetration Test (ASME B16.34 Appendix 2)
- Material Testing to 3.1b
- Acceptance as per DIN & ANSI standards
- Special Tests e.g. Impact test for material testing

Material & Special Coating, Treatments

BC Series Bypass Chambers could be manufactured from special materials and undergo coating / treatment as per required.

Materials

- Hastealloy C276
- A105 Carbon Steel
- SUS 304 / SUS 316
- Monel 400
- Duplex SS

Coatings

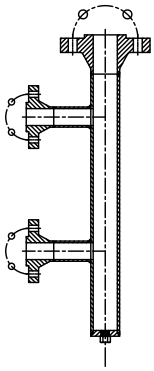
- Offshore Coating as per PTS standards
- Colour Spray Coatings
- Special Coatings (FEP Coatings, PTFE Coatings)

Bypass Chamber Designs

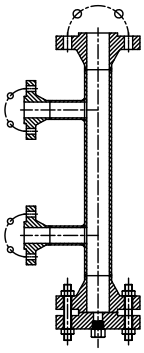
Acez Sensing is able to provide designs of Bypass Chambers in order to conform to process requirements.

Examples:

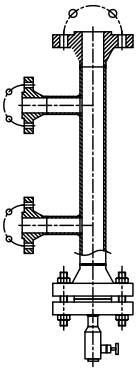
Drain Screw



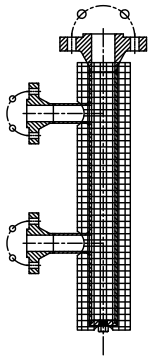
Blind Flange



Drain Tap

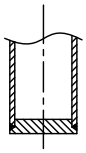


Heating Jacket

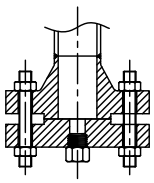


Top & Bottom Designs

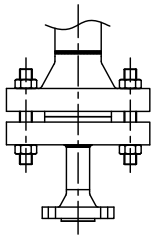
(1) Pipe bottom



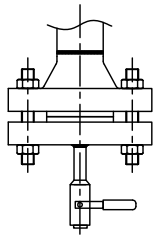
(4) Welding neck flange with drain screw G1/2″



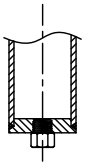
(7) Welding neck flange with drain flange DIN or ANSI



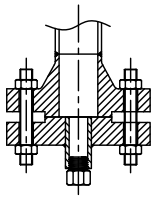
(10) Welding neck flange with drain ball valve



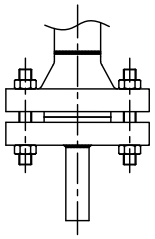
(2) Pipe base with drain screw G1/2″



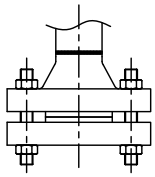
(5) Welding net flange with drain screw 1/2″NPT



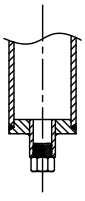
(8) Welding neck flange with drain connection



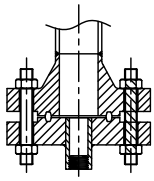
(11) Welding neck flange with blank



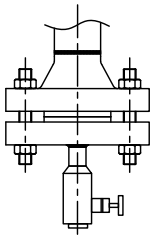
(3) Pipe base with drain screw 1/2″NPT



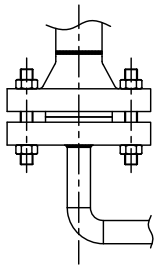
(6) Welding neck flange with RTJ Seal and NPT drain sleeve



(9) Welding neck flange with drain valve

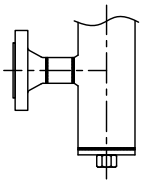


(12) Welding neck flange with 90° drain

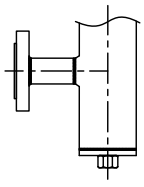


Process connection Designs

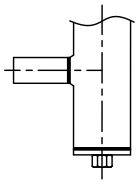
(1) Welding neck flange



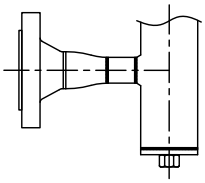
(2) Blind flange



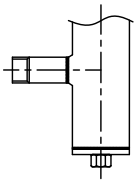
(3) Weld nipple



(4) Welding neck flange reduced



(5) G or NPT thread male



(6) G or NPT thread female