

Type 501 - 502 & 503

Water Columns

OVERVIEW

The Levelstate side arm water column is made from either large bore thick walled carbon steel extruded section conforming to ASTM A105, or thick walled seamless pipe in carbon steel or stainless steel. The seamless section design and fabrication meets the requirement of ASME B31.1 Power Piping Code.

The water columns are designed to promote condensation of saturated steam with minimum loss of temperature. Circulating condensate into the water column flushes the vessel and probes continuously. This prevents buildup of sediment and eliminates the need for periodic blowdown.

TYPE 501 WATER COLUMN

The 501 is a low pressure water column manufactured from ASTM A105 carbon steel extrusion. The section was designed by Levelstate specifically for the application.

The rating is 150 bar @ 341 degrees C and pressure tested to 225 bar @ ambient temperature.

The probe seats are machined into the thick wall of the extrusion at custom spacing as determined by the customer. Probes are staggered odds on one side and evens on the other, this gives the greatest resolutions over smaller distances. Probes are secured by means of a screw thread and are sealed by way of a Metaflex gasket. The minimum probe spacing is 25mm.

Steam and water connection stubs are provided with either socket or butt weld finishes. The connections are sch 160 material and 1 inch standard O/D. The drain connection provided is 1/2 inch O/D standard with either socket or butt weld finish. We can provide alternative sizes as requested. The top of the column incorporates an eye bolt for hanging purposes, but this can be substituted for a vent connection.



TYPE 502 WATER COLUMN

The 502 is a high pressure water column manufactured from ASTM A106 carbon steel or stainless steel seamless pipe.

The rating is 207 bar @ 370 degrees C and pressure tested to 310 bar @ ambient temperature. Or 570 degrees C for stainless steel pipe.

The probe are located using stainless steel inserts welded into the pipe at custom spacing as determined by the customer. Probes are staggered odds on one side and evens on the other, this gives the greatest resolutions over smaller distances. The minimum probe spacing is 25mm. Probes are sealed with a compression nut.

Steam and water connection stubs are provided with either socket or butt weld finishes. The connections are sch 160 material and 1 inch standard O/D. The drain connection provided is 1/2 inch O/D standard with either socket or butt weld finish. We can provide alternative sizes as requested. The top of the column incorporates an eye bolt for hanging purposes, but this can be substituted for a vent connection.



TYPE 503 WATER COLUMN

The 503 is a high pressure water column manufactured from ASTM A105 carbon steel extrusion. The section was designed by Levelstate specifically for the application.

The rating is 207 bar @ 370 degrees C and pressure tested to 310 bar @ ambient temperature.

The probe seats are machined into the thick wall of the extrusion at custom spacing as determined by the customer. Probes are secured by means of a clamp plate held in place by 4 M10 studs and nuts. Probes are sealed by way of a Metaflex gasket. Probes are staggered odds on one side and evens on the other, this gives the greatest resolutions over smaller distances. The minimum probe spacing is 35mm.

Steam and water connection stubs are provided with either socket or butt weld finishes. The connections are sch 160 material and 1 inch standard O/D. The drain connection provided is 1/2 inch O/D standard with either socket or butt weld finish. We can provide alternative sizes as requested. The top of the column incorporates an eye bolt for hanging purposes, but this can be substituted for a vent connection.

