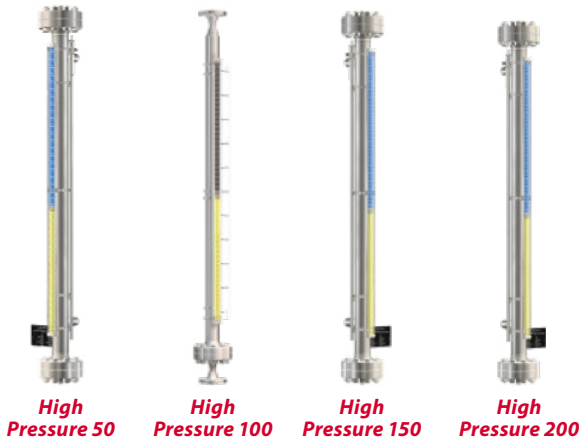


# ABLE Gauges for High Pressure Applications

The standard version for operating pressure ranges from 50 bar to 200 bar and temperatures up to 400 °C



An operating range exceeding 50 bar (5 MPa) is generally referred to and recognized as the high-pressure area in the process industries.

Many manufacturers have minimal experience in this area and can, if at all, only provide special, custom-made designs. ABLE Gauges are ideally suited to this segment of the market and offer a standard high pressure line with 4 variants (80 bar, 100 bar, 150 bar and 200 bar). This makes it easier for the user to select the right product, simplifies the handling, ensures the level of quality and facilitates longevity.

From 200 bar to 630 bar, we offer individual solutions, building on a large number of product designs that have already been realized.

A float with the horizontal bar magnet is the foundation of this design. Many years ago, ABLE's supplier WEKA was the first manufacturer to develop the ball float. Due to the optimal pressure-resistant geometry of the ball, WEKA were able to design a float made of titanium which is suitable for the highest pressures without having to increase the internal pressure of the float. We are able therefore, to choose from a large number of float types for a wide variety of parameters.

On the basis of the above, ABLE are able to supply bypass visual level indicators according to the European Directive (Pressure Equipment Directive (PED) 98/23/EC) or according to American Standards (ANSI / ASME).

Thanks to the magnetic principle, we are not restricted to using non-magnet materials. In general, the material group 316/316L or 1.4401/1.4404/1.4435/1.4436 and the pressure rating determine the series to be used.

For all four pressure stages, EN and ANSI connections are part of the scope of supply for the standard version. Whether flanges, threads or weld-on ends, the basic type, including the required connections, can be determined using simple pressure-temperature diagrams (p-T diagrams). Since there is a suitable float for all types, chosen by ABLE according to the process data, the only thing left to do is to select the indication rail, which is available in a wide variety for all versions.

With single or multiple magnetic switches as accessories, the level indicator can be enhanced to become an indicator with limit switches. It is also possible to install a transmitter on a visual level indicator in order to generate a continuous electrical signal for evaluation by a control system.

The entire range of 2- and 3-wire instruments, either as safe area or Ex- versions (ATEX / IECEx), and in a wide variety of temperature designs, is available in the standard series

Additional tests such as X-ray inspection or dye penetration are available and commonly requested. With pickling or passivation processes, the surface quality of the stainless steel can be improved.

For each delivered instrument, we supply a manufacturer's test certificate according to EN10204-2.1. On request, higher-level test certificates, or a material certificate according to EN10204-3.1, can be obtained.

## Registered Address

ABLE Instruments & Controls Ltd  
Cutbush Park, Danehill, Lower Earley,  
Reading, Berkshire, RG6 4UT. UK.

## Reading

Tel: +44 (0)118 9311188 | Email: info@able.co.uk

## Aberdeen

Tel: +44 (0)1224 725999 | Email: ab@able.co.uk

## Web

able.co.uk

## E-commerce

247able.com

