PRODUCT
BULLETIN

WHY PED?

What is PED?

PED is the Pressure Equipment Directive. Pressure-retaining equipment with volumes over 1 liter and maximum pressures over 0.5 bar or 7.25 psi must comply with the design, manufacture, and conformity of this directive issued by the European Union. The standard of 2014/68/EU does not apply to all pressure equipment, even though they may be pressure-retaining. For example, sample cylinders are pressure-retaining, but they do not follow these regulations but rather follow the Transportable Pressure Equipment Directive (TPED) because they are not stationary.

Why is PED required?

PED is necessary to protect individuals and equipment from harm caused by unsafe pressure equipment, which could be caused by design, manufacturing, or testing.

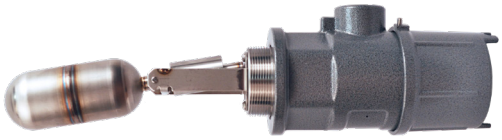
When PED applies

- Any volume greater than 1L and pressure greater than 25 bar.
- Any pressure greater than 200 bar regardless of volume.
- Must be a destination that requires compliance with European standards.

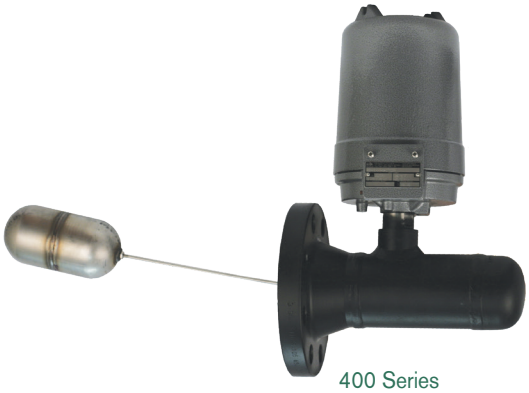
When PED does not apply

- Any pressure below .5bar regardless of volume.
- Any pressure below 200 bar and less than 1L of volume.

Due to the small volume of the pressure port, most pressure and differential pressure switches do not need PED. Pressure retaining bodies are not present in temperature switches, making them unsuitable for this directive. PED may be required for the device with the temperature switch installed. Although the pressurized volume within these switches does not fall within the requirements of PED, it will still be included in the scope of PED regulations. Either the Low Voltage Directive (LVD) 2006/95/EC or the ATEX Directive 94/9/EC.



1710 Series
Compact Level Switch



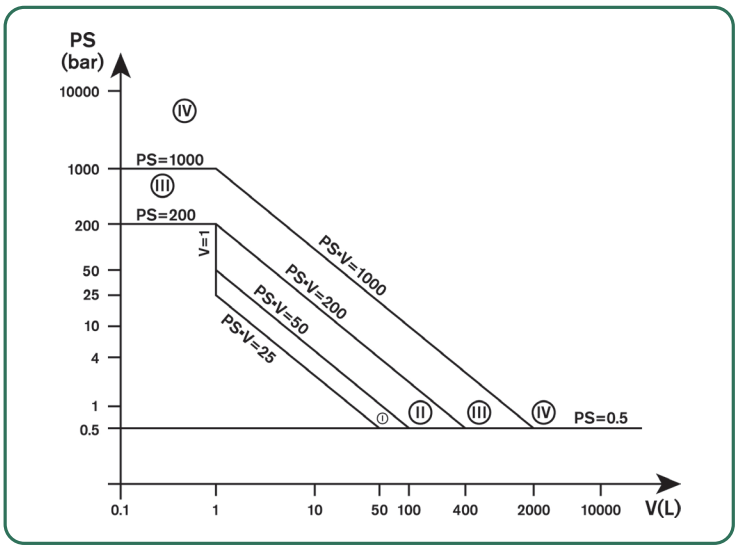
400 Series
Side Mounted Level Switch

1000 Series
Engineered
Bypass Chamber

SOR
MEASUREMENT AND CONTROL

Application of PED

PED applies when any pressure retaining device falls within the criteria in annex II. The table below provides a general illustration of common applications that demonstrate the correlation between the different categories for PED. Category III and Category IV are generally considered more hazardous. PED considers anything that is less than 1L of volume valid if it has at least 200bar. Sound Engineering Practice (SEP) typically applies to products with less than 1L. Product design and manufacture must follow sound engineering practices and be accompanied by appropriate instructions for safe use as required by SEP. Sound engineering practice demands adhering to international design standards when designing products, which include ASME, ANSI, ASTM, and generally recognized practices/design standards that are widely acknowledged throughout the world.



What are the PED Certifications/CE Marking/Dates of Laws (including regulatory updates)?

PED is defined under 2014/68/EU. The directive entered into force on July 20th, 2016. Prior to that PED was governed by 97/23/EC.

Which SOR products currently offer PED?

SOR has PED on all chambered level products with stainless steel and carbon steel material. This includes the following devices.

- Flanged level Switches
- Sealed Level Switches
- Steam Trap Level Switches
- Chambered Level Switches
- Engineered Bypass Chambers

2210 Series
Sealed Level Switch

100, 741-743, 801, 802 Series
Flanged Level Switch

108, 208 Series
Steam Trap Level Switch

When did SOR acquire PED certification?

SOR acquired PED certification from the notified body on 4/25/2023.

What is involved in getting PED Certification?

SOR conducted a rigorous independent evaluation that examined our design, design processes, manufacturing processes, and quality system to determine adequate control and implementation to PED standards.

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