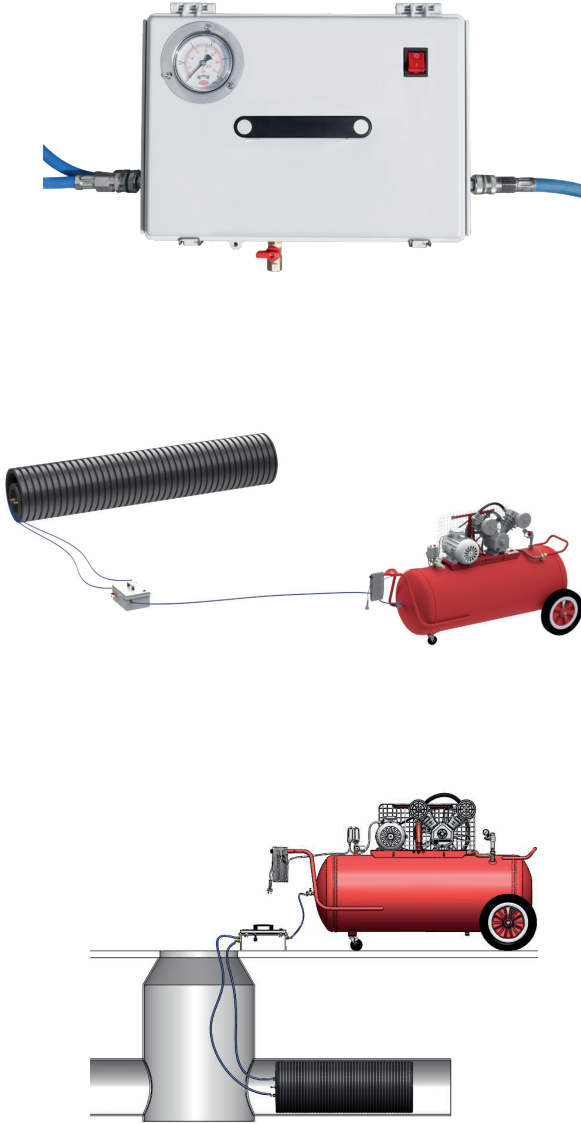


Solution for Long-term Operations



Smart pressure control system is a product based on innovative technology developed by PLUGCO to measure the internal pressure values of the plug and keep them within the desired range. Smart Pressure Control System (SPCS) provides automatic inflation/deflation for inflatable products, such as pipe plugs, to the desired pressure. Thus, it controls the inflation pressure as per the specified pressure value. In other words, it doesn't allow the inflation pressure to go above or below the set pressure value. For example, if there is a change in pressure due to external factors such as temperature, it supplies or release air to keep the pressure at the specified value. During plug operations, pressure loss may occur in the plug due to environmental factors. Due to pressure loss, actions such as rotation, loosening and slipping may occur in the plug. Slippage and rotation cause the plug to burst. This situation creates a serious problem in terms of work safety. Smart Pressure Control System keeps the pressure at constant intervals throughout the operation. In this way, the possibility of plug burst due to pressure loss is prevented. The device provides work safety and prevents financial losses. It eliminates the need to use an operator in long-term operations and offers a cheaper solution. Smart Pressure Control System is the best solution in terms of work safety and cost.

Working Principle

The device is mechanically set to the required pressure. Then, it operates via the On/Off switch button. The analog pressure gauge placed on the box is used to monitor the inflation pressure. The device has a single air supply connection and two accesses to the pressurized area. It is equipped with a solenoid valve and a pressure relief valve, which are used to maintain and control the pressure. The air coming from the compressor passes through the system and is connected to the plug, and a second connection is made inside the plug to connect to the system. The pressure inside the plug is controlled instantly by the electric pressure switch. When the pressure inside the plug reaches 1.5 bar for, example, the system is closed by the valve. With a pressure change of ± 0.1 bar, the system becomes active again.

Areas of Use

Smart Pressure Control System can be used for maintaining the pressure of different media, such as air, gas or water. It provides automatic control of plug pressure during long-term operations.

Benefits and Features

- Portability
- Small And Lightweight
- No Need Operator For Long Operations
- Cheap Solution For Long Operations
- Instant Pressure Measurement And Control
- Innovative
- High Work Safety
- Rechargeability
- Easy To Use
- PLUGCO Customer Support

SMART PRESSURE CONTROL SYSTEM

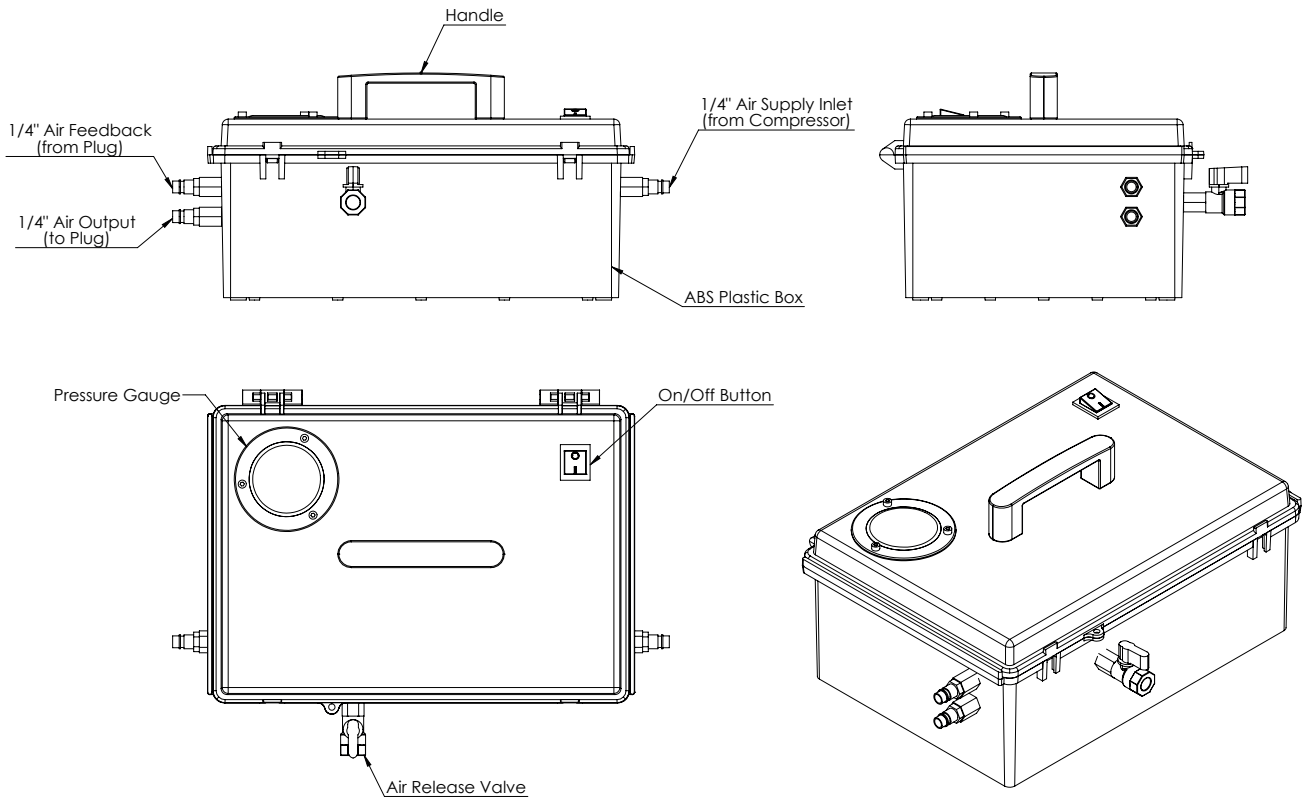


Technical Specifications

	Smart Pressure Control System
Set Pressure Range for Inflation Pressure	1 – 10 Bar
Set Pressure Range for Pressure Drop	0.1 Bar
Compressor	8 Bar / 100 L
Operating Temperature	-10°C ... +60°C
Battery	12 V – 2.8 Ah
Battery Lifetime	200 Operations (Must be charged after each use)
Pneumatic Connection	1/4"

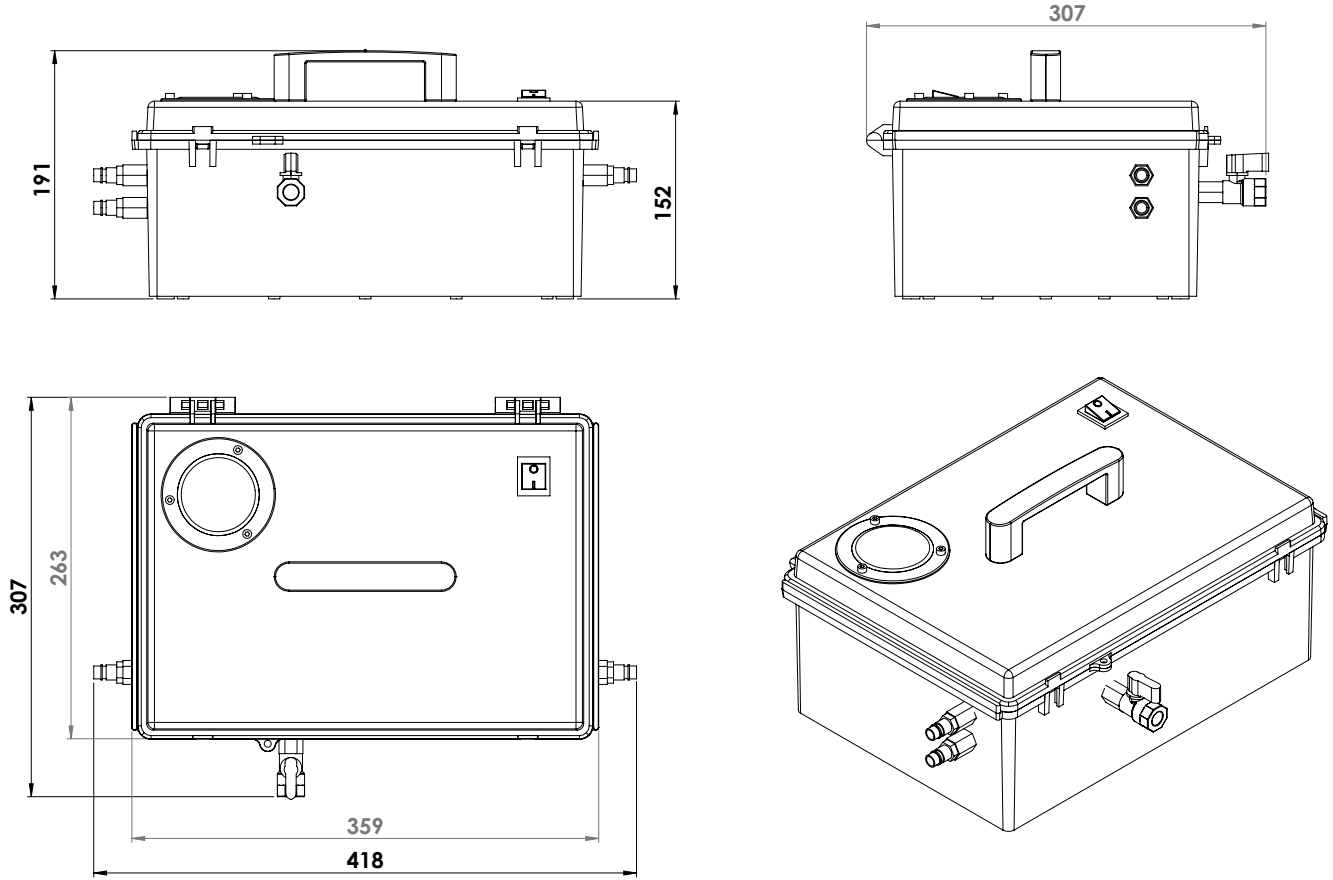
Technical Drawings

Elements



Technical Drawings

Dimensions



Note: All dimensions are in mm.