

INSTRUCTIONS, SAFETY, AND USAGE GUIDELINES FOR

INFLATABLE PLUGS

Do not test the balloons empty, without inserting them into a pipe. **Risk of bursting and significant damage.** The balloons will neither be taken back nor exchanged. Improper use of the plugs or failure to follow safety rules can endanger the physical integrity of users and, in extreme cases, their lives.



DN 70–150 mm (3"–6")

Follow instruction before use
Unbedingt Bedienungsanleitung beachten
Suivre les instructions avant l'utilisation

Maximum working pressure : 2,5 bar
Maximaler Betriebsdruck : 2,5 bar
Pression maxi de gonflage : 36 psi

Maximum back pressure : 1 bar
Maximaler Gegendruck : 1 bar
Contre pression maxi : 14,3 psi

LABELING

Refer to the label on the plug for the characteristics of the inflation ranges and pressures. The information includes the usage range [70 - 150 mm], the inflation pressure [2.5 bar], and the maximum back pressure the plug can withstand [1 bar]. The maximum pressure is admissible when the plug is used at the beginning of the range (70 mm).

If the label is not legible, contact your dealer.

For information, 0.1 bar of back pressure is equivalent to 1 meter of vertical water.

PRESSURE GAUGE

INFLATION NOZZLE

This zinc-plated steel nozzle is standard on our cross fittings and is compatible with our hoses and plugs. It is a European-type profile with a 7.5 mm passage.

PRESSURE GAUGE

It provides a direct reading of the pressure in the plug. With the valve closed, it allows pressure control (in case of loss).

QUICK CONNECTOR

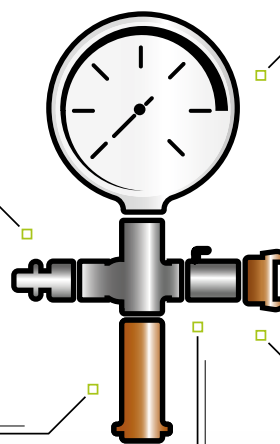
It allows the connection of identically equipped on-site compressors. It can be unscrewed and replaced with another type of connector with a 1/2-inch gas thread.

RELIEF VALVE

Factory-calibrated and certified, it prevents exceeding the indicated pressure on the plug. The calibration must match the maximum admissible pressure for the plug.

VALVE

It allows the inflation and deflation of the plug. Its role is also to regulate the input pressure, which must be identical to the relief valve.

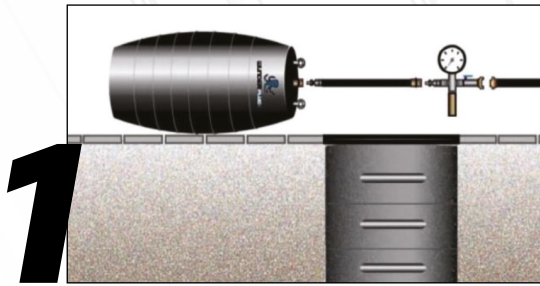


CHEMICALS & HYDROCARBONS

If the effluents contain hydrocarbons or chemicals, prefer the WUNDEPLUG NITRIL plugs. For temperatures up to 100°C, use the WUNDERPLUG EPDM plugs. In all cases, refer to the resistance table.

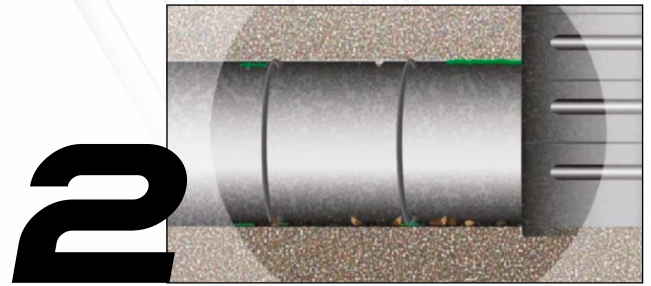
OPERATING TEMPERATURES

Standard plugs have a temperature resistance range of -20°C to +70°C.



CONTROL OF THE PLUG

Before installation, perform a visual inspection of the plug to ensure it is not damaged (cuts, bulges). Inflate it slightly (1/3 of its initial size) and check for any leaks, especially at the flexible coupler connection.



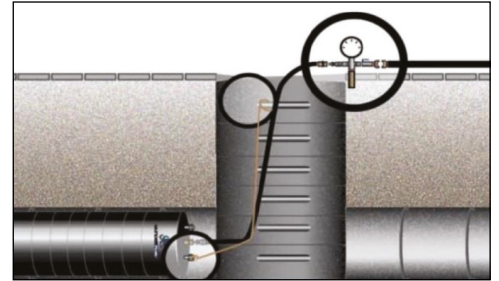
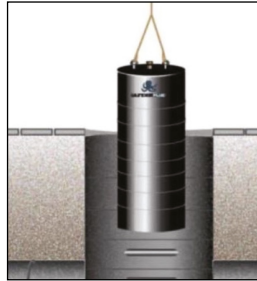
CLEANING THE PIPE

Clean the pipe to remove any sharp objects, stones, or other items (shells, metal pieces) that could puncture the plug. Also, check for the absence of algae or silt that could weaken the plug's grip in the pipe (algae, silt, etc.).

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INSTALLATION

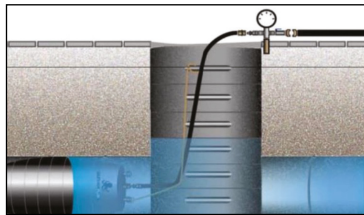
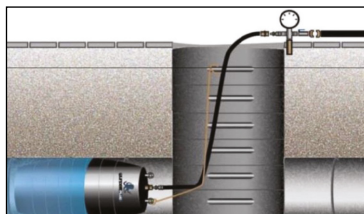
Place the plug in the pipe at least 20 cm from its access point. Secure it using appropriate hooks and a rope on one of the ladder rungs of the manhole or, if necessary, outside the manhole. Connect the hose to the balloon and to the pressure gauge equipped with a safety relief valve.



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INFLATION

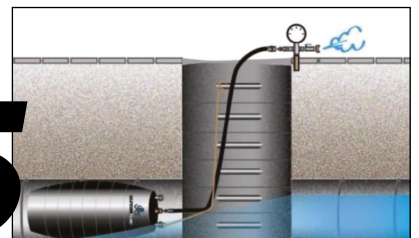
Connect the hose to the balloon and to the pressure gauge equipped with a safety relief valve. Inflate the plug to its maximum allowable pressure. Regularly check for any pressure loss using the pressure gauge within the first half-hour.



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DEFLATION

Ensure that the securing attachment is firmly fixed and taut. Deflate the plug very slowly using the pressure gauge valve to release the trapped fluids. Once completely deflated, remove the plug either with the securing attachment (rope) or manually.



Then, check periodically, 1 to 2 times a day, throughout the duration of the plug's use. Leave the inflation hose outside the manhole to control and adjust the pressure from the outside. **Important: Only use certified inflation components (valve and pressure gauges).**

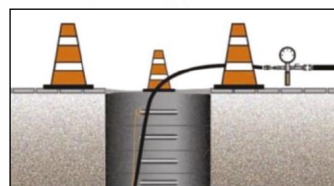
SAFETY EQUIP YOURSELF WITH PPE



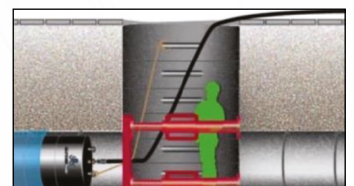
It is strongly advised not to work near (in the manhole or directly above) the plug during inflation and deflation operations and, in general, throughout the duration of the plug's use.



The installation of a support in the pipe will be necessary in case of risk of high back pressure exceeding that accepted by the plug.



Remember to secure the manhole opening to prevent fall risks.



If you need to intervene in the manhole, secure the workstation by installing a supported plate capable of retaining the plug and the effluents.