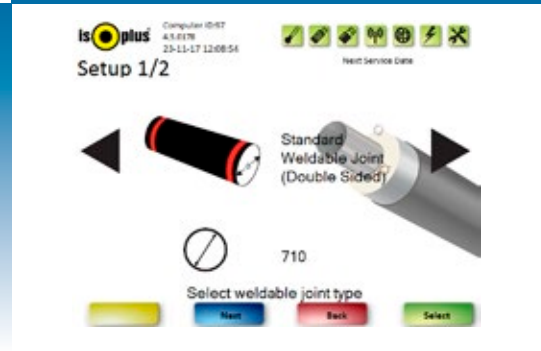


ISOPLUS PE WELDING SOLUTIONS

- a safe and well documented technology



Weldable joints

A tight jacket is a vital shield against outside corrosion of steel pipes throughout their entire lifetime.

Due to simple means and state-of-the-art technology, isoplus weldable joints and branches provide a safe solution – regardless of the installation conditions.

In order to ensure the correct welding temperature, isoplus' unique welding computer is calibrated on the basis of the **JOINT's temperature** prior to the welding process.

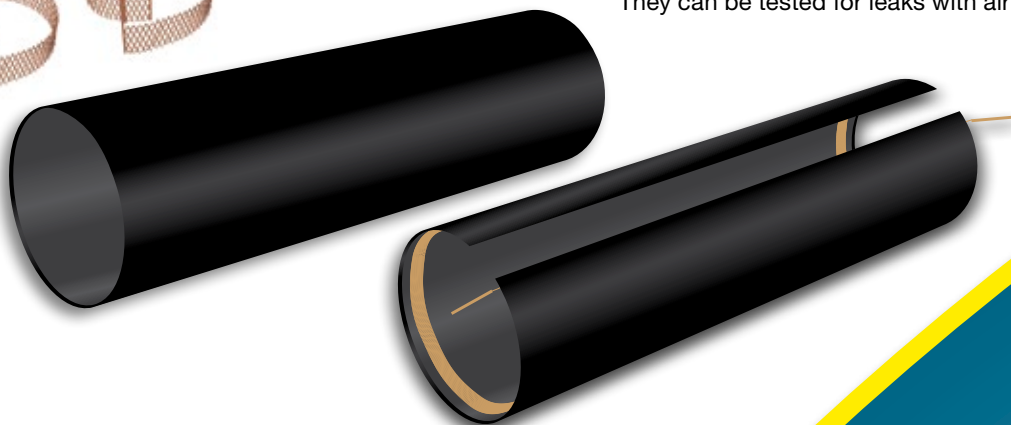
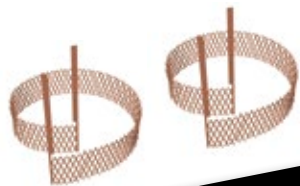


■ WELDABLE JOINT

A safe solution for all types of isoplus pre-insulated pipes requiring a thorough documentation of the electric fusion welding process. isoplus weldable joints are installed easily and quickly – therefore they are the preferred weldable joints in the market.

■ OPEN WELDABLE JOINT

isoplus' open weldable joint is installed without prior fitting of the joint and is particularly suited for repairs and renovation. The process is as well documented as the process applying to the standard weldable joint.



Weldable joints are made from HDPE in accordance with EN 489. They can be tested for leaks with air according to EN 13941.

Weldable branches

isoplus weldable saddle branches and weldable branches are used whenever a quick and safe solution is wanted – carried out by means of electric fusion welding in a controlled and documented process. A time-saving installation solution for the connection of service lines because cutting of the main pipe is not necessary.

■ WELDABLE SADDLE FLEX BRANCH

This solution is used for single pipes and always carried out by means of electric fusion welding. It only requires partly removal of the main pipe insulation. Welding bands incorporated in the saddle upon delivery.

■ WELDABLE SADDLE STRAIGHT BRANCH

This solution is mainly used for vent/drain on single pipes and is always carried out by means of electric fusion welding. It only requires partly removal of the main pipe insulation. Welding bands incorporated in the saddle upon delivery.

■ OPEN WELDABLE FLEX BRANCH

This solution is used for both single and double pipes and is always carried out by means of electric fusion welding. Welding bands are incorporated into the main part of the branch upon delivery.

■ OPEN WELDABLE BRANCH – STRAIGHT

This solution is mainly used for double pipes and always carried out by means of electric fusion welding. Welding bands are incorporated into the main pipes part upon delivery.

■ EXTRUSION WELDABLE FLEX BRANCH

This solution is used for both single and double pipes. Extruder welded longitudinally. Circumferential welds are carried out with separate welding bands and by means of electric fusion welding.

■ EXTRUSION WELDABLE INTALLATION BRANCH - STRAIGHT

This solution is mainly used for double pipes. Extruder welded longitudinally. Circumferential welds are carried out with separate welding bands and by means of electric fusion welding.



All weldable saddles and branches are made from HDPE in accordance with EN 489. Power transmitting; can be tested for leaks with air according to EN 13941.



Weldable saddle flex branch



Weldable saddle straight branch



Open weldable flex branch



Open weldable branch – straight



Extrusion weldable flex branch



Extrusion weldable installation branch– straight

isowelder compact

The following applies to both isowelder and isowelder compact:

The ideal welding curve, including welding time and temperature, are calculated during the entire welding process and shown in the display.

Complete traceability of the machine location via GPS.

isoplus can provide remote support on site, because data transmission and machine log are sent to isoplus via GSM immediately after the welding is concluded.

Joints can be welded regardless of the installation temperature, because the welding computer automatically calculates the required output based on the copper band temperature when the welding starts – subsequently it calibrates automatically.

All curves are saved on a USB stick and can be read in the machine display or printed via PC.

Weld curves are saved and provide full traceability.

Curves are saved for the following weld data:

- Amperage
- Voltage
- Output
- Temperature
- Resistance



■ ISOWELDER COMPACT

Portable welding computer

Benefits:

- Voltage 230 V, min. 13 A
- Weight only 16 kg
- Lighter model ensures better occupational ergonomics
- 10" screen
- Applicable for all types of weldable joints and weldable branches up to dimension \varnothing 315 and all types of weldable saddle flex branches
- Transmission of welding curves via 4G modem
- Can be operated with isoplus remote control

isowelder

■ ISOWELDER

Welding computer

Benefits:

- Voltage 400 V, min. 13 A
- Robust wheels and handle ensure easy transportation
- 10" screen
- Applicable for all types of weldable joints and weldable branches up to dimension \varnothing 1200 and all types of weldable saddle branches
- Transmission of welding curves via 4G modem
- Can be operated with isoplus remote control



Service

Data via:
USB
Server
Hard disc

Data-security

GPS

Welding data:

- Amperage
- Voltage
- Output
- Temperature
- Resistance



Automatic calibration

Ideal curve



Documentation

Documentation

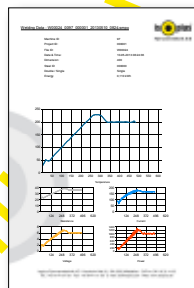
Personal user profiles are established in an online database, including an archive with welding reports and GPS positions. All data for each single weld are stored automatically on a USB stick, a central server and on the welding computer hard disc.



Joint Protocol									
Weld No.	Weld Date	Weld Time	Weld Location	Weld Type	Weld Material	Weld Diameter	Weld Thickness	Weld Position	Weld Operator

JOINT PROTOCOL

By completing a joint protocol, we ensure the quality of all stages of the joint installation. The joint protocol is partly a summary of all data and partly the fitter's check-list of having carried out all stages of the installation. Last but not least, the protocol ensures coherence in joint installation and pipe log.



WELD REPORTS

Weld reports document the welding process, including amperage, voltage, effect, temperature and resistance.



CERTIFICATES

isoplus welded joints are tested according to EN 489, including sandpit testing.

Remote control

■ REMOTE CONTROL

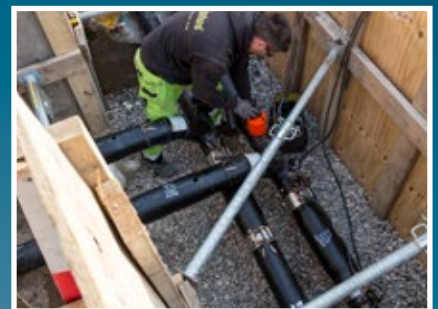
The welding computer is available with a remote control option by which you can control all functions.

Benefits:

- Ensures a good physical occupational environment
- Minimises working procedures
- Robust design
- Applicable with the isoplus isowelder and the isowelder compact



ROBUST, SIMPLE AND SAFE SOLUTION



LONG LIFETIME ENSURES GOOD ECONOMY

Welded joints



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