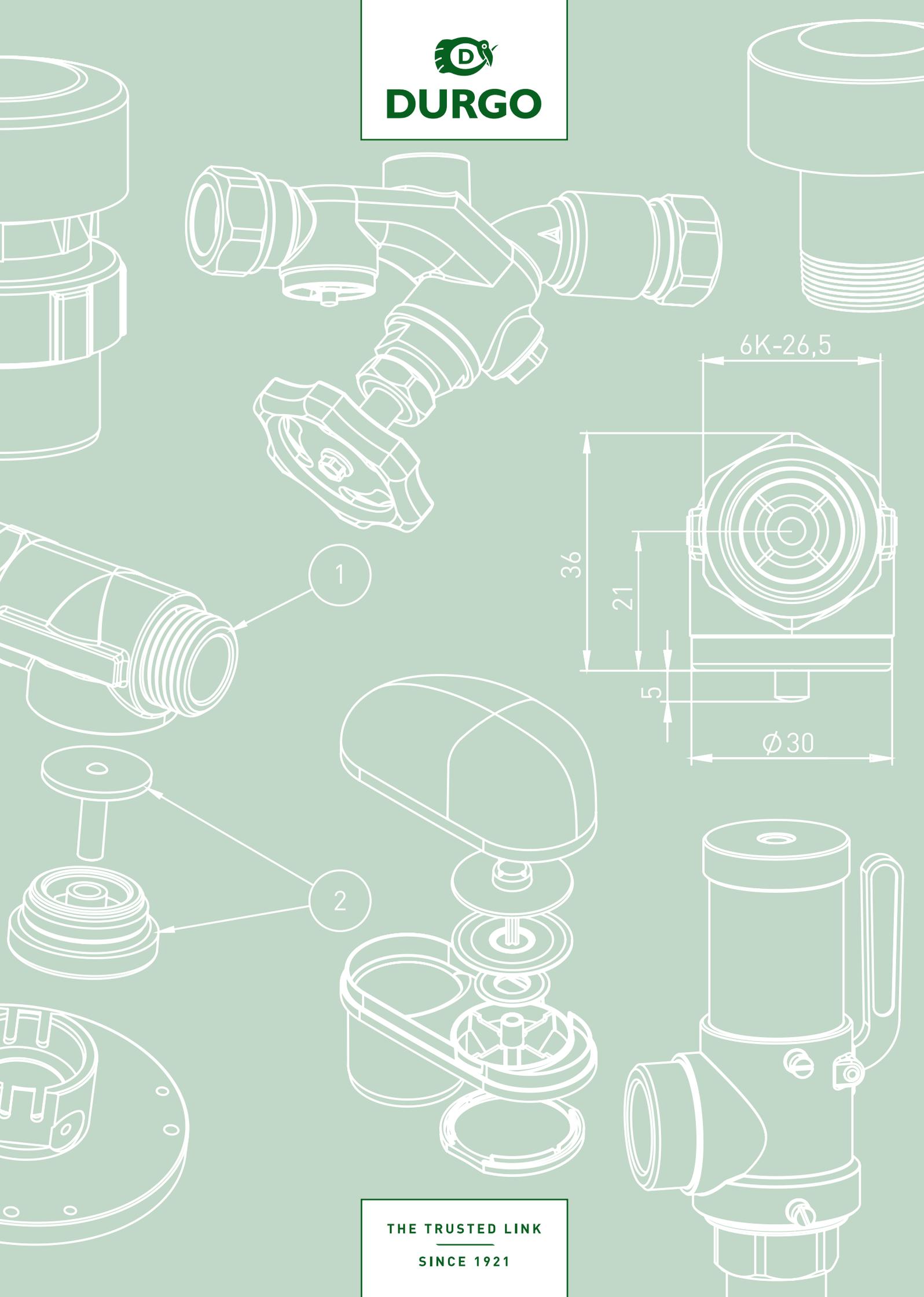




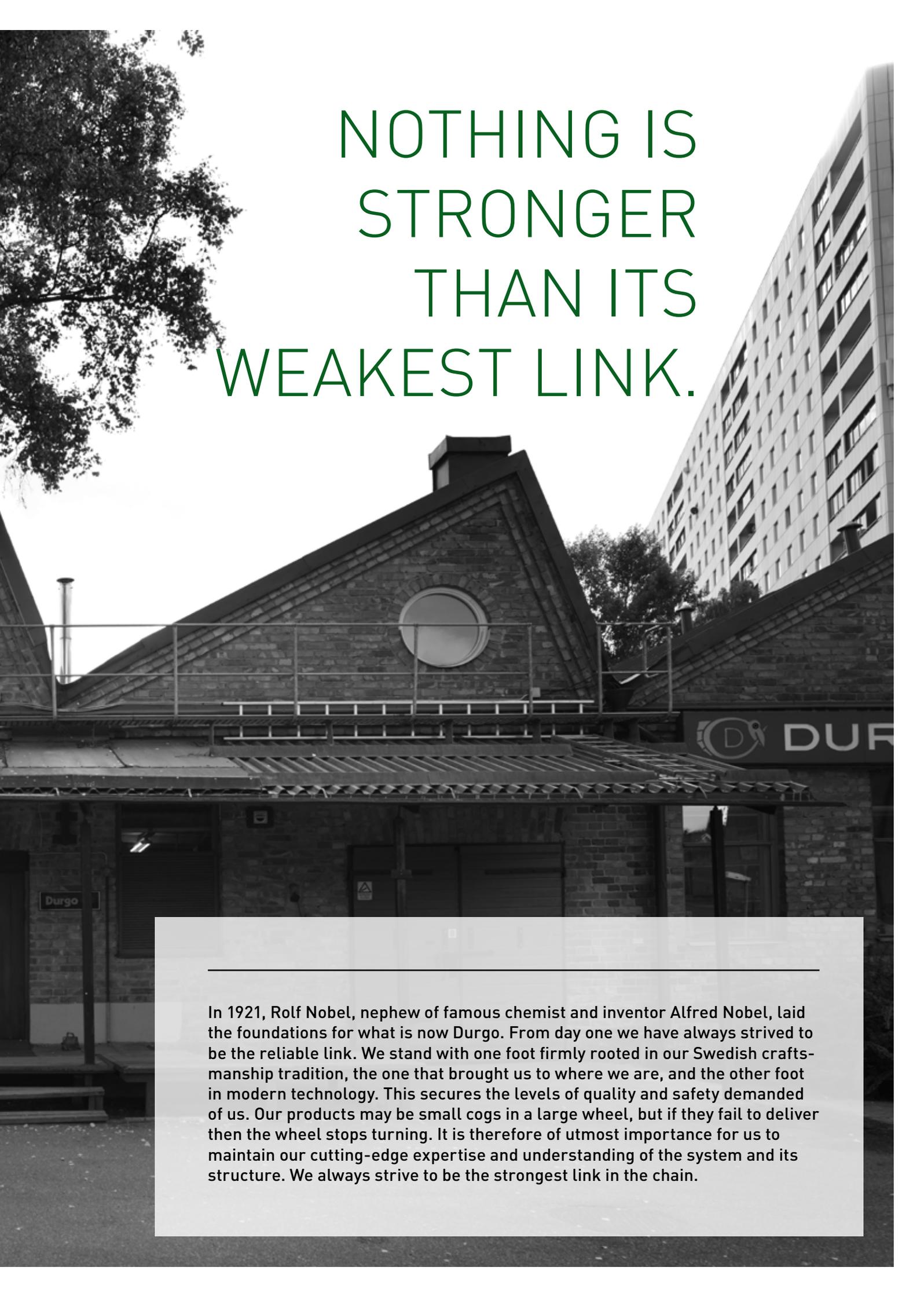
DURGO



THE TRUSTED LINK

SINCE 1921





NOTHING IS STRONGER THAN ITS WEAKEST LINK.

In 1921, Rolf Nobel, nephew of famous chemist and inventor Alfred Nobel, laid the foundations for what is now Durgo. From day one we have always strived to be the reliable link. We stand with one foot firmly rooted in our Swedish craftsmanship tradition, the one that brought us to where we are, and the other foot in modern technology. This secures the levels of quality and safety demanded of us. Our products may be small cogs in a large wheel, but if they fail to deliver then the wheel stops turning. It is therefore of utmost importance for us to maintain our cutting-edge expertise and understanding of the system and its structure. We always strive to be the strongest link in the chain.

A FAMILY BUSINESS

1921

Rolf Nobel, nephew of famous chemist and inventor Alfred Nobel, establishes AB Durgo in Hagalund north of Stockholm.

- Erik Andersson takes over Durgo. The company is still run by the family.
- The introduction of the water closet in Sweden boosts sales of the WC flush valve.
- The first safety valve is developed.

1930

- Valve manifolds and taps with various types of backflow prevention are developed.

1960

1921

1940

- Creates vacuum valves as backflow prevention for drinking water systems.
- Backflow prevention for washing machines sees the light of day.

1970

- Patent awarded for an air admittance valve for wastewater systems. Millions of valves are now installed in buildings throughout the world.
- Exports begin to the Nordic and other European countries.



FOR ALMOST A CENTURY

We are closing in on a century as a company and still have the same precision and engagement as in Nobel's day.

- We enter the Japanese market, now one of our key markets.
- Stainless steel safety valves and vacuum valves are introduced.

1980

- We develop a new type of air admittance valve for tight spaces (Durgo Plus).
- We begin selling in China. Durgo air admittance valves are installed in the Olympic Stadium in Beijing.

2000

1990

- We enter the US market.
- Our operations are quality certified in compliance with ISO 9000.

2010

- We acquire a plastic parts production plant, making the bulk of our production in-house.
- We develop and patent new vacuum valves for safer backflow prevention in drinking water systems.

2021



SAFETY VALVES



Durgo safety valves have a unique design and functionality. The safety valves we produce today are still based on our patented 1930s design of a compression spring in a dry spring housing. Strict requirements on material standards and manufacturing precision, assembly and testing are the key elements in producing a good reliable safety valve.

We use state-of-the-art machinery and testing equipment in combination with solid craftsmanship to make safety valves with the highest capacity and precision, safety valves that blow at the set pressure to prevent injury and costly damage to property.

Safety valves should be equipped with some form of control mechanism to enable regular checks after installation, a handle or a wheel. We know from experience that these checks are not carried as they should be, which invariably leads to the cone getting stuck and

the valve not opening. As an extra safety precaution we therefore make the cone from non-corrosive material with a Teflon® coating to minimise the risk of the valve not opening.

Durgo safety valves can be used on pressurised systems with cold and hot water, air, oils and other media, and as overflow valves in pressure maintenance systems or pumping plants. The valves are individually set and can be customised to the required pressure.

Durgo safety valves are CE labelled with AFS 1999:4; Pressure Equipment Directive (PED 97/23 / EC) and delivered sealed with a red nameplate showing the opening pressure and the serial number, proof of safety and precision.



EACH PRODUCT IS RIGOROUSLY TESTED BECAUSE WE KNOW THAT QUALITY PAYS.

AIR ADMITTANCE VALVES





WE HAVE THE LATEST TECHNOLOGY AND THE HUMAN RESOURCES

For a drainage system to function optimally it has to be correctly designed and aired. Pressure changes that arise in the system during use could otherwise empty the water traps and cause bad odours and dampness.

Venting is traditionally done through a ventilation pipe in the roof. When Durgo presented its air admittance valve in 1974 it triggered a revolution in drainage installations the world over. Today the valves are a natural part of any drainage system.

The valve is installed straight on to the waste pipe, thus avoiding a hole in the roof that costs time and money, and which could begin to leak and cause damp and other damage to the building. The valve opens at negative pressure. This lets air into the system, which equalises the pressure and stops the water being sucked out of the water traps. It stays closed and sealed at normal and excess pressure. The Durgo air admittance valve also indicates any blockages in the sewage system. This is shown by e.g. the water level in the toilet bowl rising higher than normal when flushing and the water going down much slower.

The valve is reliable and has a high air flow capacity. All Durgo air admittance valves are tested, checked and CE labelled in compliance with current standards. The valve is available in a large range of sizes to fit the most common waste pipe dimensions and, depending on the dimension, can be placed up to a metre underneath the installed unit (WC, hand basin etc.).

Tests conducted on our initiative show that Durgo air admittance valves can also delay the spread of fire in buildings. In the tests in a building with an open waste pipe system it took 22 minutes for the fire to spread between the floors compared to 104 minutes with an air admittance valve installed.

Durgo's original design paved the way for a trustworthy, high capacity air admittance valve. A simple and reliable design with an ABS plastic housing and a unique patented EPDM rubber seal.

High rise or bungalow, large or small, Durgo has an air admittance valve that fits. Millions of Durgo air admittance valves are installed in buildings and plants the world over, an unparalleled quality assurance.

BACKFLOW PREVENTION



Water is our most essential commodity and has to be protected from contaminants. The food safety laws put stringent demands on water quality, water works and supply networks. One particularly sensitive part of the supply network is water installations in buildings, when the water first becomes available to the consumer. It is here that the water quality could be affected. One major risk is the backflow of contaminated water that could spread to other tapping points and buildings. It is therefore crucial that measures are taken to prevent the backflow of water.

The pressure in a water pipe is not constant but changes all the time. Negative pressure may be caused by large draw-offs somewhere in the system, broken pipes or

a line being shut off and drained, increasing the risk of backflow causing contaminated water entering the system. Backflow can also occur if the pressure downstream of the tapping point is greater than in the network and could easily happen in the home when washing the car or watering the lawn as well as in workshops, factories and laboratories.

Durgo has a wide range of vacuum valves that are designed to prevent syphon and overpressure backflow. They are available in several types and dimensions. Many are classed in accordance with the EN 1717 standard, others are the more traditional horizontal or vertical terminal types. Our vacuum valves are of the high pressure type and can be fitted straight on to the hot and cold mains.



VALVE MANIFOLDS



Durgo valve manifolds are mainly used in heating and hot water systems. The manifold is a stop valve, a non-return valve and a vacuum valve all rolled into one that prevents backflow. It also has connection points for a safety valve and a drain valve.

Manifolds are mainly installed in central heating plants and water heaters where they protect the installation from deformation caused by negative and overpressure, and help to prevent backflow.



TAPS

Backflow is always a risk in water pipes and backflow protection must always be used to prevent the water from becoming contaminated. The risk of toxic substances contaminating the drinking water is just as great in the home as in industries and laboratories. Taps with a hose connection are particularly vulnerable. If backflow occurs in a garden hose when watering the

lawn or washing the car, contaminated water could flow back into the water system and spread to other taps and buildings.

Durgo has a wide range of taps with a built-in check-valve and vacuum valve preventing backflow.



SPECIAL PRODUCTS

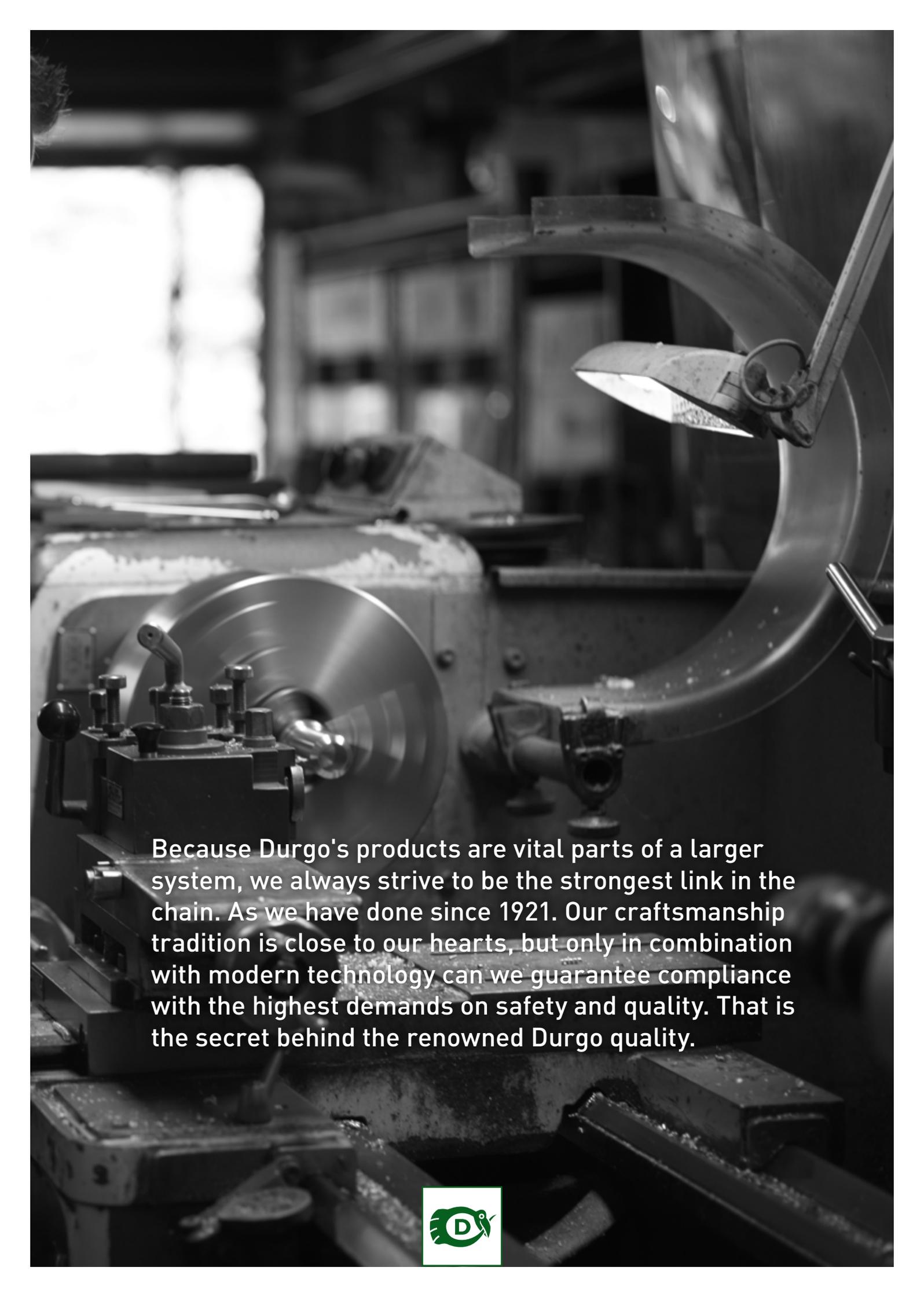


There are occasions when there are no readymade solutions and the problem seems impossible to solve. We see that as a challenge.

Over the years many of our customers have requested special products or have asked us to find a way to solve a specific problem. And we have satisfied most of their needs. We may well have solved a similar problem before.

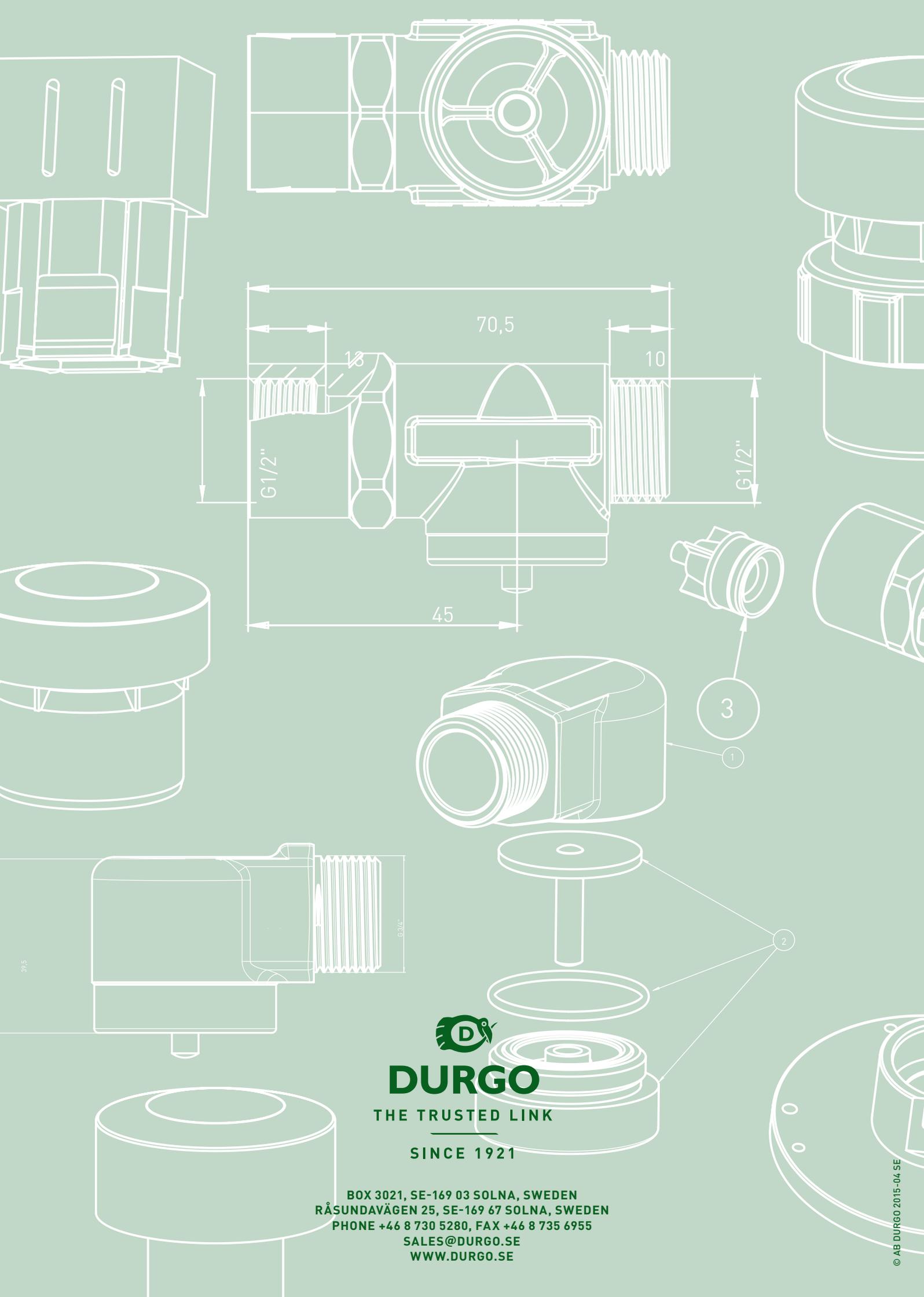
The quality of our special products does not differ from other Durgo products. They are made from carefully selected materials with the highest precision and undergo comprehensive testing and alignment before being delivered, to ensure they withstand the toughest of treatment year in and year out.





Because Durgo's products are vital parts of a larger system, we always strive to be the strongest link in the chain. As we have done since 1921. Our craftsmanship tradition is close to our hearts, but only in combination with modern technology can we guarantee compliance with the highest demands on safety and quality. That is the secret behind the renowned Durgo quality.





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