

ABA SAFESEAL TECHNOLOGY™

Reliable

ABA clamps are designed to have a clamping force reserve and not break. They will reliably continue to develop a sealing force around the hose when tightened (see blue line fig. 1) 360° around the joint.



One-piece pressed housing

The worm gear housing is pressed from custom-made piping to an interior tolerance of a few hundredths of a millimetre. ABA worm gear housings withstand high breaking torques due to the design in comparison with riveted, welded or just folded housing designs.

High clamping force

A good clamp should be able to develop a high level of tightening force around the hose or pipe. The even tightening force secures a tight seal. Through the installation torque you decide on the level of force to apply.

Gentle on the hose

The smooth underside and rolled-up band edges are gentle on the hose and reduce the risk of leakages.

A choice of hose clamp is a choice of clamping force. Bear in mind that settings in the rubber will in the long term reduce the clamping force. Is the clamping force you have selected large enough?

Be sure – choose ABA Original clamps.

Aluzink

Our standard bands are made from an Aluzink material, which provides roughly three times better corrosion protection than traditional galvanization. An Aluzink band, in conjunction with our product design, provides the optimum clamping force.

ABA – for a better environment and quality

ABA clamps are produced in factories certified to ISO 14001 and our products can be reused many times thanks to the high and constant quality continuously surveyed in our ISO 9000:2000 as well as ISO TS 16949 systems.

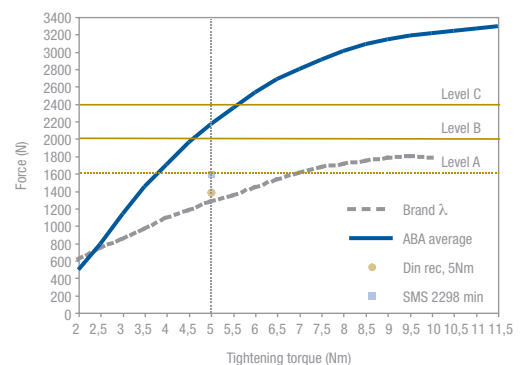


Fig 1. Mechanical efficiency of ABA clamps i.e. the relation tightening torque and sealing force. (2-sector "mechanical efficiency" test. Force: Newton, Speed: 200 rpm.)

OUR GROUP TECHNICAL CENTRE – STATE OF THE ART TEST FACILITIES

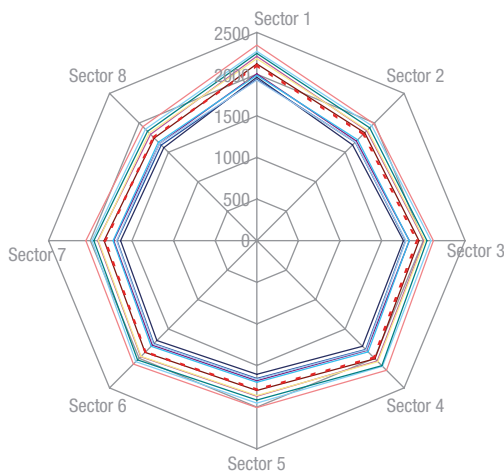


Fig 2. High and consistent quality from clamp to clamp. Each graph is one clamp. (8-sector "one measure" test. Force: Newton, Speed: 200 rpm.)

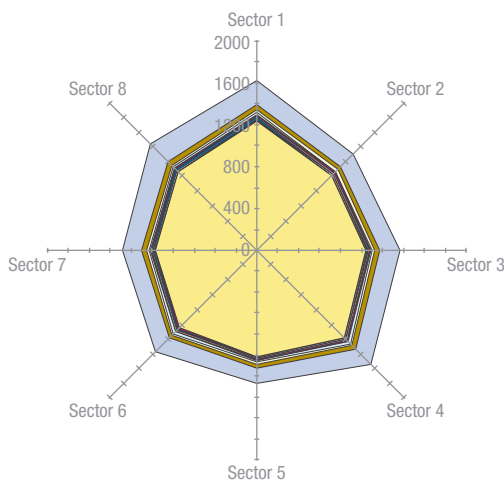


Fig 3. High remaining clamping force thanks to the one piece housing design. (8-sector load test. Force: Newton, Time: 1 min, Time step: 6 sec, Tightening torque: 4,5 Nm.)

Our tests – a guarantee against leakage

A hose connection has three components:

- Pipe ends – a large number are available for different purposes.
- Hoses – an equally large number are available.
- Naturally, hose clamps with different characteristics intended for different jobs are also required. ABA Original can be used, with the correct tightening torque, for a large number of applications. ABA Original with aluzink or stainless bands provide a very large clamping force and a leakproof connection.
- Testing according to SS-ISO 9227 with neutral salt mist spray
- First-class products produced in plants certified to TS 16949:2000. The best steel qualities enable stable production processes and provide a high and even product quality.
- Products produced in plants certified to ISO 14001 and made entirely with recyclable materials.

Clamping force meter

If you wish to compare the clamping force of different products, we can help you on site with our portable measuring equipment. Once the clamping force has been determined, a suitable level of corrosion protection can be selected from the table on next page.

Extensive global expertise

We continuously test systems of hoses, pipe ends, clamps and couplings at our Technical Centre, in order to develop new products and to improve our existing products.

Technical Centre in Anderstorp

Mechanical efficiency is one of our test parameters, which is shown in the diagram on the left side Fig. 1. An increase of tightening torque does not always mean an increase in clamping force! Here the Clamp design and lubrication plays a vital role. Our Technical Centre has a state-of-the-art equipment for testing of pressure, vibration and temperature variations. Essential parameters which over time will affect a hose or pipe connection. Many customers have during recent years asked us to perform tests and give technical advice concerning their specific applications.

In industry, the choice of clamp is important. Therefore, we have developed a meter that measures the exact clamping force at eight points, directly after installation and over extended periods of time. Tests have shown that ABA products achieve high clamping forces before breaking and thus ensure that the customer has a clamping force reserve in the clamp to avoid blow-off or leakage over time. If you want us to perform tests for your specific need – just contact your Area Sales Manager.

