

HYDAC INTERNATIONAL



Swivel bolt clamps

Swivel bolt clamping band
Quick release swivel bolt band clamps
Swivel bolt prism clamp Clamps for cylinders

General

HY-ROS swivel bolt clamps are used to mount large-volume containers or components of various shapes (round and/or square) and materials such as air reservoir, plastic containers, steel and plastic tanks or accumulators.

Various production and shaping methods together with different base materials and dimensions cater to virtually every requirement.

Advantages

- Simple installation through fold-open locking system
- Simple installation and subsequent correction of position
- Unrestricted positioning of fastening system
- Flexibility thanks to individual shaping of the clamping bands
- Insulation from noise and electrostatic thanks to additional plastic or rubber inserts
- Suitable supports for every container through selection of shaped parts and plastics
- Customer-specific and inexpensive solutions through modification of clamping bands and supports.

Notice

Mounting technology is safety technology, particularly in the case of swivel bolt bands. For this reason, our fastening equipment must only be attached and installed by trained personnel.

We assume warranty responsibility and liability only against defects in our delivered items as such. We bear no responsibility for the suitability of the surrounding conditions and for proper assembly.

Swivel bolt clamping band

The flexible steel band, used in conjunction with a large selection of mounting systems optimised to suit requirements, is the basis element of all HY-ROS swivel bolt clamps and it can be used with or without a support.

For the band-eyellet connection with mechanical attachment, the band ends are bent to form eyelets and closed up with projection welding connections or by joining processes.

The eyelet straps are fastened to the outside of the bent band so that the band has a smooth inner surface.

Adapted profile inserts made from PE or EPDM are used to protect surface and component, while resistance to flame and high temperatures is achieved by PTFE plastic inserts.

Suitable supports for air reservoir mounting are available for practically all requirements.

Quick release swivel bolt clamping band, round

The bent swivel bolt clamping band is particularly suitable for mounting heavy, smooth-walled hoses with a high tightening torque.

The fold-open locking system enables rapid radial mounting.

Fitted with strap or rubber profile inlay to prevent injuries and component damage.

Quick release swivel bolt band clamps

To mount round components on a base surface, the swivel bolt clamping band is combined with a support. The support has two elongated holes for effortless clamp adjustment.

The "Multi" quick release swivel bolt band clamp has been specifically designed for high dynamic loads, thermal stresses, changes in diameter and force effects.

The component geometry also enables freely selectable positioning of the fastening system.

The support is reinforced with web plates or side walls for greater load capacity.

Swivel bolt prism clamp

The combination of swivel bolt clamping band and functionally formed support has been developed for mounting accumulators in confined spaces.

Clamps for cylinders

The combination of swivel bolt prism clamp and standard DIN 3015 clamp is predominantly used to mount hydraulic lines to the cylinder. This prevents weld metal and heat from entering the hydraulic cylinder.

Maximum static loads, HY-ROS clamping bands (welded stainless steel)

Width x thickness [mm]	Material	Max. permitted load [kN]	Minimum length [mm]
20 x 0.8	Stainless steel, ferritic	2.9	70
20 x 0.8	Stainless steel, austenitic	2.9	70
25 x 1.0	Stainless steel, ferritic	4.5	100
25 x 1.0	Stainless steel, austenitic	4.5	100
30 x 1.0	Stainless steel, ferritic	5.5	120
30 x 1.0	Stainless steel, austenitic	5.5	120
30 x 1.0	Stainless steel, austenitic	5.5	120
30 x 1.5	Stainless steel, ferritic	8.3	120
30 x 1.5	Stainless steel, austenitic	8.0	120
30 x 1.5	Stainless steel, austenitic	8.0	120
40 x 1.5	Stainless steel, ferritic	11.0	120
40 x 1.5	Stainless steel, austenitic	10.6	120

Maximum static loads, HY-ROS clamping bands (joined Fe steel)

Width x thickness [mm]	Material	Max. permitted load [kN]	Surface treatment	Minimum length [mm]
20 x 1.0	Fe steel	3.6	Z600 (600g/m ²)	200
30 x 1.0	Fe steel	5.5	Z600 (600g/m ²)	200
30 x 1.5	Fe steel	8.3	Z600 (600g/m ²)	200
40 x 1.5	Fe steel	11.0	Z600 (600g/m ²)	200

Notice: Other materials on request.

NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the relevant technical department.

The operator is always responsible for determining the product suitability for the specific application. Quantified values for product characteristics are average values for a new product that undergo a time deterioration process.

Subject to technical modifications and errors.