



SOLIMAR

MARINE EQUIPMENT

BEARINGS BOOKLET 

Solimar manufactures many types of standard and self aligning rudder bearings. All the components are made with raw materials of top quality: stainless steel A304, aluminium 3571, torlon, peek, ertalyte. All our bearings are available in the versions for the deck and for the hull of the boat. We will advise you the most effective system for the watertight of the lower bearings. Besides the high-tech rudder bearings, Solimar is still producing the old and classic lower bushings made of bronze, brass or stainless steel with stuffing box for the watertight. Moreover, we manufacture many types of stainless steel, titanium, aluminium rudder shafts. On request, Solimar can supply also rudder shafts complete of blade.

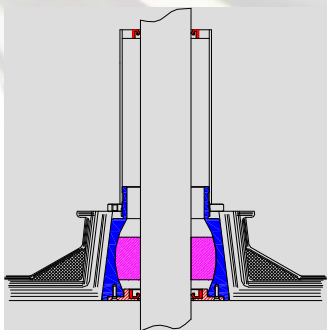
900 Series - The rudder bearings 900 series are made with A 304 stainless steel. The sliding is on two lines of stainless steel balls and one or more line of stainless steel rollers. This kind of rudder bearings is available in the version for deck **900P** series with locking flange and in the version for the hull, **900S**, **900X**, **900L** series. The outside shape of the lower bearing is cylindrical with a locking flange. The flange of the top bearing can be "mirror" polished when it is on view by the deck. The locking systems to the deck, to the hull and to the rudder shaft are very easy. The 900 series is available for rudder shaft with diameter from mm 25 up to mm160. Also the bottom bearing have a locking flange. The watertight system (Solimar security system) on rudder bearings series **900L** is made with a self-supporting neoprene tube (height on demand) locked by stainless steel clamps, a ring with gasket is locked on the top of the tube by using stainless steel locking clamps while in the lower bearings **900X** series the water tight system is made with the classical stuffing box. Solimar supplies, on demand, a fibreglass bushing (Item **900B**) that must be laminated to the hull. The bearings must be locked by bolts to the fibreglass bushing. In this way the dismantling of the bearing for maintenance or replacement is very easy and quick, with no delamination of the hull.



800 Series - The rudder bearings 800 series hardkote anodization. The sliding is on two lines kind of rudder bearings is available in the version for the hull **801S**. The locking system to very easy. The 801 series is available for rudder 160. Please contact our Technical Department



are built by using aluminium 3571 with black of torlon balls and one line of peek rollers. This for deck **800P** with locking flange and in the the deck, to the hull and to the rudder shaft is shafts with diameter from mm 25 up to mm for more information and explanation.



801 Series - The rudder bearings 801 series are built by using anodized aluminium 3571. These bearings are self-aligning by inner spherical ertalyte ball and they are designed for an easy installation on the deck and to absorb the bending stress of the rudder shaft under load. This kind of rudder bearings is available in the version for deck **801P** with locking flange and in the version for the hull **801S**. The outside shape of the lower bearing **801S** series is conical for a better and practical installation from the outer side of the hull. We produce also the **811S** series with an inner self-aligning ertalyte ball and aluminium bushing sliding on peek rollers (suitable for aluminium or carbon fibre rudder shafts) and the **891S** series with the same features and inner stainless steel bushing sliding on stainless steel rollers (suitable for stainless steel rudder shafts). The 801

series is suitable for rudder shafts with diameter from mm 40 up to mm 160. The watertight system (Solimar security system) on rudder bearings series **801L**, **811L**, **891L** is made with a self-supporting neoprene tube (height on demand) locked by stainless steel clamps. A ring with gasket is locked on the top of the tube by using stainless steel clamps.

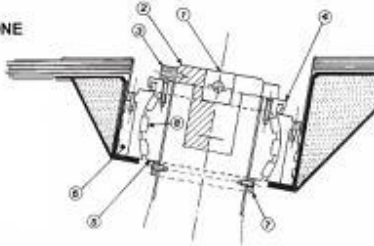
802 Series - The rudder bearings 802 series are available only in the lower version for the hull. These bearings are made with anodized aluminium 3571, they are self-aligning with an inner spherical ertalyte ball and they are designed for an easy installation to the hull and to absorb the bending stress of the rudder shaft under load. The outside shape is cylindrical with a locking flange. Solimar supplies, on demand, a fibreglass bushing (Item **802B**) that must be laminated to the hull. The bearings must be locked by bolts to the fibreglass bushing. In this way the dismantling of the bearing for maintenance or replacement is very easy and quick, with no de-lamination of the hull. We produce also the **812S** series with an inner self-aligning ertalyte ball and aluminium bushing sliding on peek rollers (suitable for aluminium or carbon fibre rudder shafts) and the **892S** series with the same features and inner stainless steel bushing sliding on stainless steel rollers (suitable for stainless steel rudder shafts). The 802 series is suitable for rudder shaft with diameter from mm 70 up to mm 160. The watertight system (Solimar security system) on rudder bearings series **802L**, **812L**, **892L** is made with a self-supporting neoprene tube (height on demand) locked by stainless steel clamps. A ring with gasket is locked on the top of the tube by using stainless steel clamps.



803 Series - The rudder bearings 803 series are built by using aluminium 3571 with black hardkote anodization. They are self-aligning and the sliding is on three lines of spherical peek rollers. The best choice to fit big carbon rudder shafts. The 803 series

COMPLESSIVO DI INSTALLAZIONE
INSTALLATION UNIT

complesso di
installazione del
cuscinetto serie 803 in
versione a ponte



must be locked by bolts to the fibreglass bushing. In this way the dismantling of the bearing for maintenance or replacement is very easy and quick, with no de-lamination of the hull. The 803 series is suitable for rudder shaft with diameters from mm 100 up to mm 540. The watertight system (Solimar security system) on rudder bearings series **803L** is made with a self-supporting neoprene tube (height on demand) locked by stainless steel clamps. A ring with gasket is locked on the top of the tube by using stainless steel clamps.



This kind of rudder bearing is the is available in the versions for the deck and for the hull and both types have the locking flange. The outside shape is cylindrical. Solimar supplies, on demand, a fibreglass bushing (Item **803B**) that must be laminated to the hull. The bearings



804 Series - The rudder bearings 804 series are built by using aluminium 3571 with black hardkote anodization. They are self-aligning by inner spherical ertalyte ball. The sliding is on two lines of torton balls and one line of peek rollers (814 series, suitable for aluminium rudder shafts) or two lines of stainless steel balls and one line of stainless steel rollers (894 series, suitable for steel shafts). The outside shape is cylindrical with locking flange. This kind of top bearing is also available in the version with tiller cap (**814T** and **894T** series). The cap with quick bayonet opening is well integrated in the flange of the bearing. The series **804P**, **804T**, **894P**, **894T** are suitable for rudder shafts with diameter from mm 50 up to mm 120. This kind of bearing is the better way to



fit sloping rudder shafts, because of his self-aligning system (max angle - 18°), the flange remains always flat, avoiding to built recesses or steps on the deck for the vertical alignment between the rudder shaft and the bearing.



SAILTEC GmbH
Hasselbinnen 28
D-22869 Schenefeld
Germany

+49 40 8229940
info@sailtec.de
www.sailtec.de