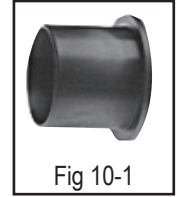


Replacing flange bearings into All-Round® spherical inserts

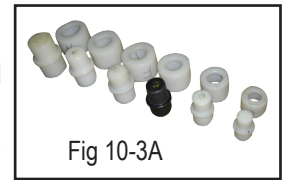


The sacrificial part of an All-Round® is the flanged polymer bearing (Fig 10-1).

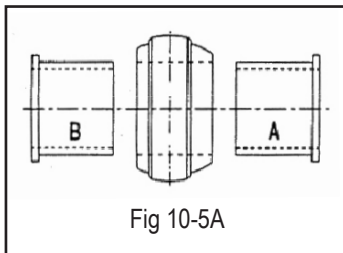
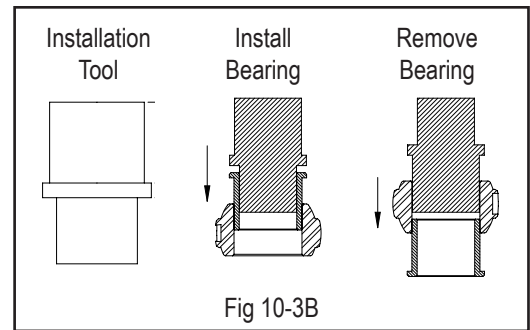
- All-Round® flange bearing sleeves should be changed after the wear has reduced the wall thickness to no more than 3/4 of the original wall thickness, or when the shaft centerline becomes a problem.
- To replace an All-Round® flange polymer bearing, do NOT adjust the setscrews or otherwise tamper with the spherical insert in the housing – these two components should remain AS IS.



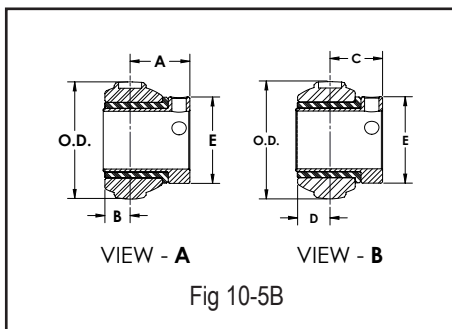
Step 1: Press used flange polymer bearing out of stainless ring (see Fig 10-2). This can be done with an EDT installation and removal tool and any arbor press or drill press. The spherical insert must be positioned on a pipe or some fixture that raises the spherical ring high enough off the bench to remove the bearing. See Fig 10-3A and 10-3B for fixtures that can be purchased from EDT for this operation.



Step 2: Install new EDT flange polymer bearing. When installing replacement All-Round® bearings, note that the flange polymer sleeves are somewhat brittle so they must be gently pressed into the All-Round® spherical inserts. Care should be taken that the flange bearing is perpendicular to the bore of the stainless ring before pressure is applied. Pressure should be applied smoothly and consistently. A drill press or arbor press is ideal for this (see Fig 10-4).



All-Round® bearings can be installed with the polymer flange on either side of the spherical insert (see Fig 10-5A). Locking sleeve must run against polymer and not against a metal surface (see Fig 105B). Units are shipped from the factory as shown in “View A” configuration (see Fig 10-5B); you can specify “View B” assembly to reduce the length thru bore.



For Special Application Conditions..... See pages U-20 thru U-23
To install housing onto equipment..... See page U-8

To install All-Round® bearing into housing, see next page



Installing spherical insert into housing

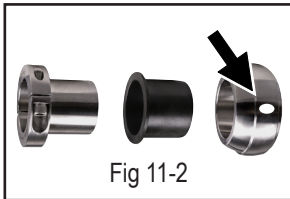
Follow these instructions to install an All-Round® insert into a housing that previously held a different kind of bearing. Once installed there is no need, in most cases, to change out the spherical insert unless the polymer bearing wears through to the stainless insert.

Step 1: To remove the stainless spherical insert from an EDT housing, unscrew TWO setscrews from the outside of the housing. For installing into housings by other manufacturers, remove any fittings (grease-fitting or tap plug) and remove bearing insert (see Fig 11-1).

Check the I.D. of the housing (especially on a metal housing) for any burrs, scratches, or an obvious out-of-round condition. Repair burrs and scratches as required. An out-of-round condition makes the housing unusable. Refer to page U-23 for a fast and easy way to check housings without expensive tools.

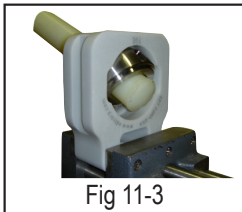


With all polymer bearing materials EXCEPT “QF” material, the spherical insert with the polymer bearing can be pressed together, and the two pieces can then be handled as one unit. QF flange polymer bearings should be pressed into the spherical insert AFTER the insert is set-screwed in place into the housing. Refer to Step 2 on page U-9 for flange bearing installation procedure.

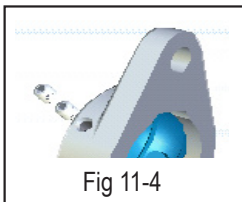


Step 2: Note that the spherical insert is not symmetrical; direction of assembly directly affects the overall length thru-bore. Also note the slot on the O.D. of the bearing (see Fig 11-2). The slot must be positioned so that it will fall under the threaded hole on the housing.

Roll the bearing into the housing using a round bar that is as close to the bore dimension as possible. This will prevent damage to the bore of the flange polymer liner. If the “cheater bar” is smaller ID than the shaft, it may be helpful to wrap the round bar to avoid excess load on only one small part of the bearing (see Fig 11-3). Wood or polymer bars help reduce bearing damage.



Step 3: Install two setscrews through the housing. The 1st setscrew will make contact with the bottom of the slot in the bearing and then needs to be reversed 1 FULL turn. The 2nd setscrew goes on top of the 1st to lock the first in place and to fill the hole (see Fig 11-4).



For Special Application Conditions See pages U-20 thru U-23
 To install flange polymer bearing into spherical insert See page U-9
 To install housing on equipment See page U-8