

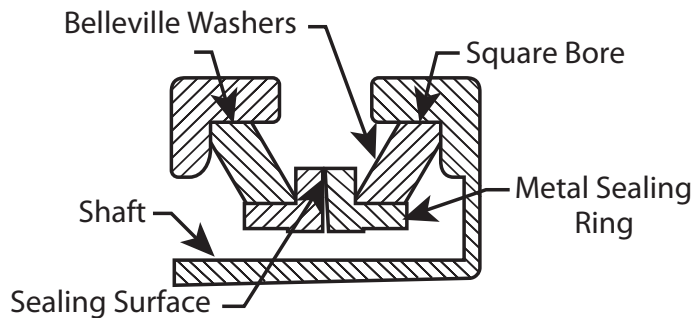
# CAT<sup>®</sup> SEALS

## Heavy Duty Dual Face Seals Installation

### Cat<sup>®</sup> Heavy Duty Dual Face Seal Assembly Contents:

1. (2) Metal Seal Rings
2. (2) Rubber Belleville Washers

### Terminology



### Handling the Seals

The idea is to protect the seal face. The more precautions taken, the more likely the seals will last in the field.

### Staging

When staging, have the seal package on the top shelf of the kit cart or on a flatbed kit cart. (Reasoning: the seals need to be removed from the packaging from the center flaps)

### Stacking

Make sure seal packages are not stacked more than 5 high to reduce the risk of tipping during trans-it. (No banding or wracked straps should be used)

### Package Removal

Do not remove the seal from the secondary packaging when transporting the seal. This will help ensure the seal does not get damaged and protects it from contamination.

Remove seal from the center flaps of the packaging, allowing more access to the seal and reduce the risk of the seals sliding against each other or another surface causing damage to the seal. Cut the center tape, making sure the knife point is not going to cut the toric or seal. (Use of a safety knife is the best tool for this procedure)

### Housing Preparation

The housing components that contact the Belleville Washers must be free from foreign material (oil, grease, dirt, metal chips, dust or lint particles, etc.) before installing the seal. This should be done using a lint-free wipe and a non-petroleum base solvent. Dry with a clean wipe.

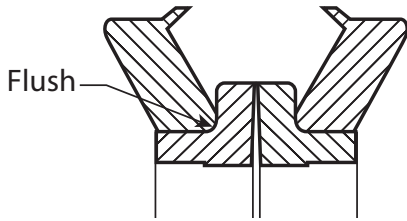
Seal rings must be handled with care. Machined seal faces must not be damaged or scratched. All parts are to be free of grease, oil, dirt and scale.

**BUILT FOR IT.™**



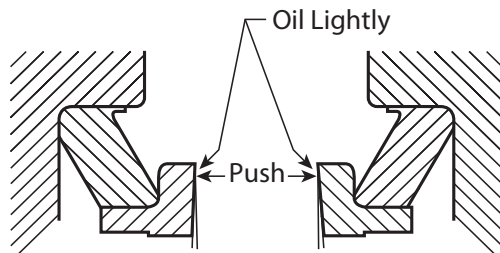
## Seal Preparation

Belleville Washers should be installed flush against the inside shoulder of the metal sealing rings.



## Installation Process

Install each half seal (Belleville Washer and sealing ring) into the housing by carefully pushing on the seal half until it is fully seated. Check to be sure that the seal is not cocked and that the washer is seated evenly at the bottom of the bore. If the seal is a single barb design, the barbed half goes in the suspended housing to insure no movement of the seal half during the assembly process.



After installing the seal halves into the unit, wipe both metal sealing faces clean with a lint-free wipe. Apply a thin film of oil to the sealing faces with a lint free applicator. Oil must not contact surfaces other than the sealing faces.

## Final Assembly

While completing the final assembly of the unit, make sure that both housings are in correct alignment and are concentric. Observe carefully that the rubber rings do not unseat from the bottom of the housing. Slowly bring the two housings together. (High impact can scratch or break the seal components)

To set the seals, hold one-half of the assembly stationary while rotating the other member a minimum of ten complete revolutions. This is very important!



**For more information on Cat Seals**

**[www.cat.com/cat-seals](http://www.cat.com/cat-seals)**

