A quick note from your friends in Technical Services...

About the installation of the 33818

As with other applications, like a spin on oil or fuel filter, a seal between the two opposing surfaces is achieved by and through proper compression of a gasket. In this case, a gasket is placed between the flat landing surface of the housing and the flat landing surface of the housing lid. Then, as the lid is tightened, the gasket is compressed. It is the compression of the gasket that forms the seal between the two surfaces, not the lid coming in contact with the housing.

Although some competitive products are provided with a tapered gasket, the landing area for the gasket in the housing is flat, not tapered. Please reference Figure 1. As can be seen in Figure 1, the gasket landing area is flat, parallel to the gasket contact area of the lid. Also, the gaskets that have a taper are designed to face up, toward the filter, not the housing.
Looking at the pictures below, Figures 2, 3, and 4 show each lid when it contacts its gasket. Each touches the gasket, then by continued rotation of the lid, the gasket is compressed in order to form the seal.

Figure 1: Housing and gasket landing area.

To help illustrate the various gaskets and lids used with this housing, three examples are shown below. The OES product is provided with a tapered gasket. The Baldwin is provided with a modified D-Ring. The WIX 33818 is provided with a rectangular gasket. Figures 5, 6, and 7 show the gaskets from each product. The OES lid has a thread shoulder length of 0.860" with four functional threads; the Baldwin has a shoulder length of 0.769" with three functional threads; the WIX has a shoulder length of 0.773" with four functional threads. These lids and measurements are shown in Figures 8, 9, and 10.

All three of these designs, when properly installed, provide uncompromising fit and seal. It is important to note, in almost all cases, the use of a tool will be required to achieve proper tightening and for lid removal.

Figure 2: OES lid

Figure 3: Baldwin lid.

Figure 4: WIX lid.

Figure 5: OES gasket

Figure 6: Baldwin gasket

Figure 7: WIX gasket

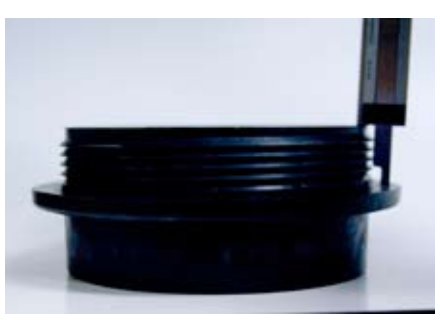

Figure 8: OES

Figure 9: Baldwin

Figure 10: WIX