

HEAVY DUTY



NAPA 3818 Installation Tips

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.



Figure 1: Housing and gasket landing area

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.

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 NAPA 3818 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.



Figure 2: OES Lid



Figure 3: Baldwin lid



Figure 4: NAPA lid



Figure 5: OES gasket



Figure 6: Baldwin gasket



Figure 7: NAPA gasket



Figure 8: OES



Figure 9: Baldwin



Figure 10: NAPA

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.

H e a v y D u t y I n f o r m a t i o n