

A Dowty

seal (also known as a bonded seal or bonded washer) is a specialized type of sealing washer consisting of an outer metal ring and an inner elastomeric rubber ring. They are widely used to prevent leaks in high-pressure hydraulic, pneumatic, and automotive applications.

For tips on how bonded sealing washers work and how they compare to traditional O-rings and crush

Design and Structure

- **Metal Outer Ring:** Usually made of carbon steel, stainless steel, or zinc-plated metal. It gives structural strength and stops the rubber from being squashed too much. [
- **Rubber Inner Ring:** Usually made of nitrile rubber (NBR). It acts as a flexible gasket that forms a tight, leak-proof seal against flat surfaces. [
- **Self-Centering Options:** Some types feature a small lip on the inner rubber ring to keep the seal centered on the bolt. [

Key Benefits

- **High Pressure:** Handles extreme fluid and gas pressures much better than standard O-rings alone.
 - **Prevents Over-Torque:** The metal thickness limits how far the rubber can compress.
 - **Reusable:** Often can be used more than once during maintenance. [
- If you need specific help, please tell me:
- What **system or equipment** you are working on (hydraulic, oil pan, brake line, etc.)
 - The **size** of the bolt or thread you need to seal