

TSB 2019-1003 Level: 1
Effective April 1st, 2020

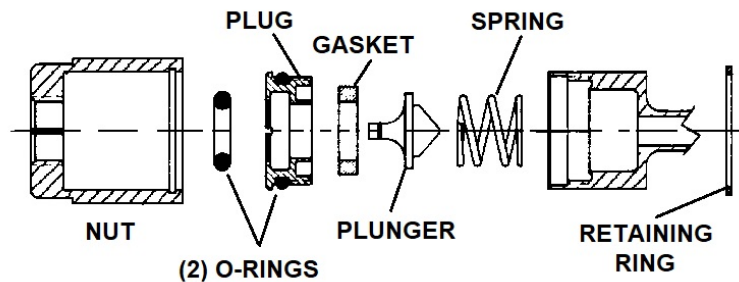
Topic	SealRight Low-Loss Anti-Blow Back Fitting Optimization for Better Sealing
Affected Units	All SealRight Low-Loss Anti-Blow Back Hose Fittings and Adapters
Resolution	SealRight assembly modified to improve sealing and limit the occurrence of pressure blow back

ISSUE:

To prevent blow back when servicing a pressurized system, the SealRight fitting utilizes a sealing assembly that is intended to create a seal on the system service port before actuating the system valve core. This prevents refrigerant, oil, and dye from being released during the system connection or disconnection process. However, in certain circumstances, the gaskets within the SealRight assembly do not create the intended seals until after the system valve core has been actuated, resulting in blow back.

ROOT CAUSE ANALYSIS:

The diagram to the right shows the components that make up the SealRight assembly. Inside the assembly, the gasket between the plug and the plunger is critical for creating a seal before the plunger actuates the system valve core and releases the system pressure. This gasket can shrink or become compressed further into the groove on the base of the plug, which can cause the plunger to actuate the valve core before a good seal is formed. To improve the consistency of the SealRight's ability to prevent blow back, the plug has been redesigned and this gasket has been shifted to optimize the amount of gasket material between the plug and the plunger. The picture on the right shows a comparison of the previous plug design (left) and the new design (right). This optimized design creates the necessary seal before the valve core is actuated.


INSTRUCTIONS:

If you are experiencing blow back with your SealRight hose fittings or adapters, the following SealRight Rebuild Kits can be utilized to improve the sealing capabilities and reduce the occurrence of blow back:

19038 – PLUG ASSEMBLY

19040 – PLUG ASSEMBLY + PLUNGER & SPRING

19041 – COMPLETE REBUILD KIT

All 3 kits include the optimized plug design, which has also been incorporated into all SealRight hose fittings and adapters manufactured after 4/1/2020.