

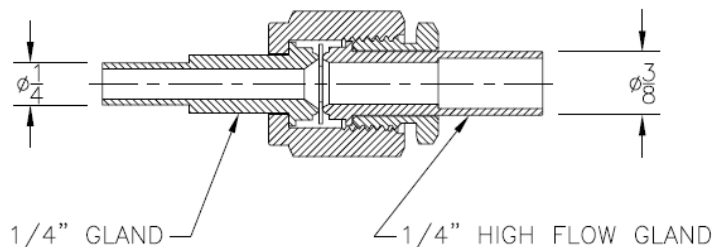
Product Note, PN 431

Face Seal Fitting Explanation, 1/4 Inch High Flow and 3/8 Inch

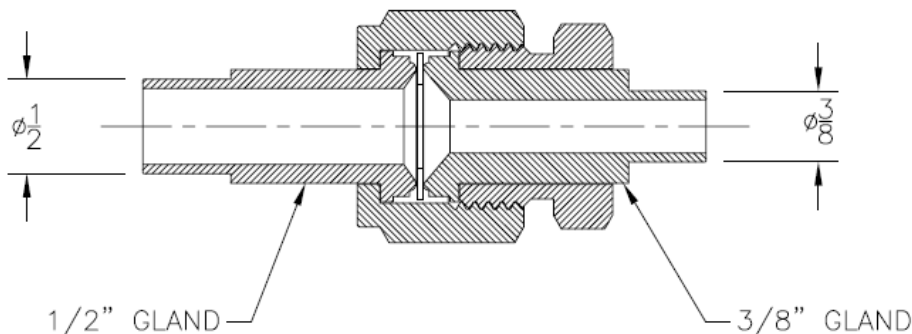
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The following explains the differences between a standard 1/4 inch face seal fitting and one termed high flow. In addition, a similar type difference between 3/8 inch and 1/2 inch face seal fittings is also described.

A 1/4 inch standard face seal gland and a 1/4 inch high flow gland mate using the same nuts and gaskets as the drawing below depicts. The glands sealing bead geometries are identical. The physical differences between the two are the through bore diameter and the weld size. The standard gland welds to 1/4 inch tubing whereas the high flow welds to 3/8 inch tubing.



The differences between a 3/8 inch and 1/2 inch face seal fitting are basically the same as the 1/4 inch example above. The nuts, gasket and sealing bead geometries are the same. The physical differences are the through bore diameter and the weld size, with each welding to the same size tubing as the fitting size designation. The two fittings mate with each other.



AP Tech's standard for 1/4 inch face seal fittings are the high flow type. The 3/8 inch size fittings are used on products when a 1/2 inch size fitting is desired and the smaller bore size of the 3/8 compared to a 1/2 inch fitting does not restrict flow through the device.