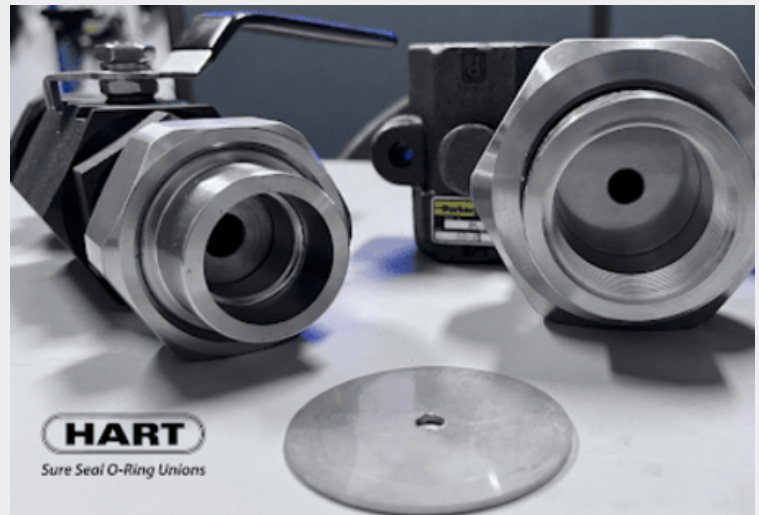
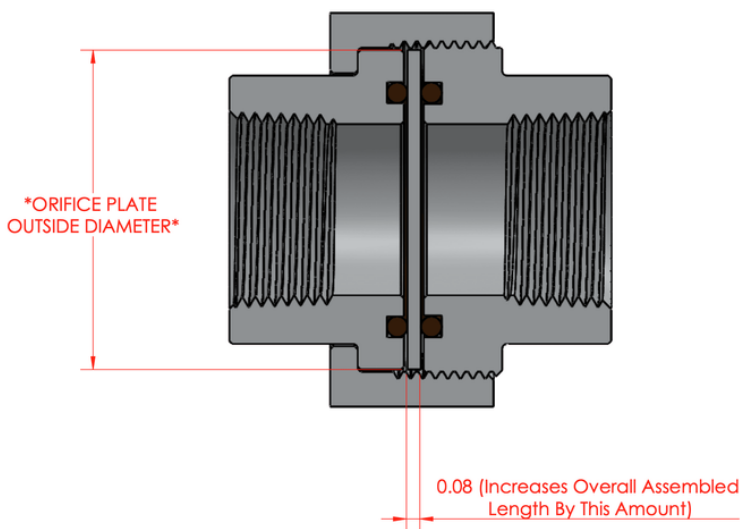




HART SURE-SEAL ORIFICE PIPE UNIONS

SPECIFIED FOR WATER MIST ZONES - FIRE SUPPRESSION
US NAVY LITTORAL COMBAT SHIP (LCS)



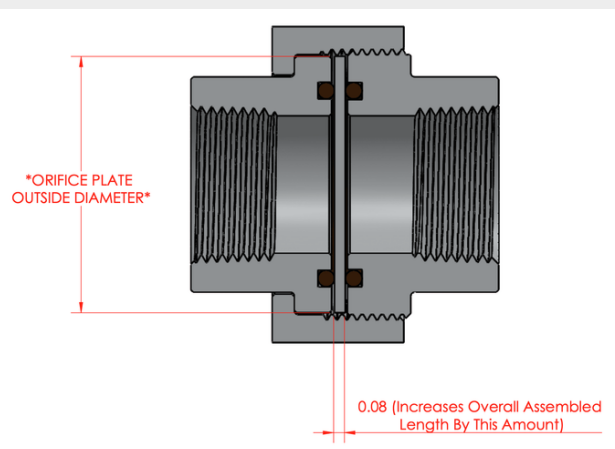
- HART Class 3000 Orifice Unions specified and in use since 2011!
- Approved for dynamic high vibration service on all LCS mist zones
- Manufacture & Supply over 2,500 unions per year
- Custom orifice bore size provided within +/- .005" tolerance
- Manufactured to MSS-SP83 union quality and performance standards
- Precision machined and made in the USA!



WHAT ARE ORIFICE UNIONS?

HART Industrial Unions can manufacture orifice unions for any style of union connection. An orifice union contains an orifice plate made of 316 stainless steel between the tailpiece and thread piece of the union. The orifice plate can be bored to spec or left blank (no bore). Orifice plates with a bore are used for flow control and flow reduction.

Orifice restriction unions are used to create a known pressure drop, restrict flow rate of fluid or gaseous media, or otherwise meter a piping system. HART Orifice Unions utilize a double O-ring seal on a flat, tab-less (non-paddle) 316 stainless steel orifice plate to offer leak free performance. Our orifice plates can be laser marked to order with custom identification and are available blank or drilled to your specifications at no additional charge.



Applications:

HART orifice unions are versatile enough for many different industries needing pipe systems to control the flow of fluids. Their all-metal construction lends these unions to advantageous uses in wide-ranging temperature and pressure applications. Some of the most common applications for these unions include:

- *Chemical and petrochemical applications
- *Flow-control systems
- *Fluid-handling systems that need to be accurate and reliable
- *High-vacuum pipe systems
- *Liquefied natural gas (LNG) facilities
- *Power generation
- *Process-control systems for manufacturing and processing products at a controlled rate
- *Transportation applications