

H₂

Bayonet Series



◆ **Ultra-low temperature service**
(20 K / -253°C)

Designed for Liquid Hydrogen Application

◆ **Long Durability**

ANSI 300 Series Stainless Steel material
with 20 years product design life

◆ **Operational Safety**

Integrated LH2 Leak Check and
GN2 Purge Port

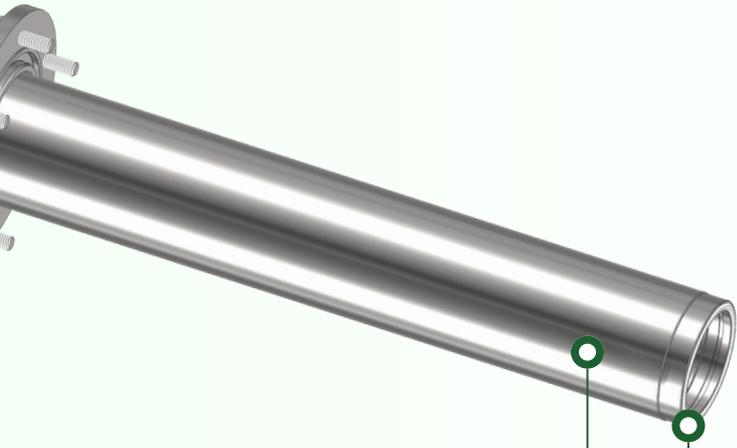
◆ **Lowest Heat Leak**

Proprietary C-PTFE Seal for
high purity hydrogen system

◆ **Low Cost Installation**

0 mating failure (< 10 µm mfg tolerance),
rotatable flange design, and suitable for
all installation orientation





2 x lower conductive heat leak

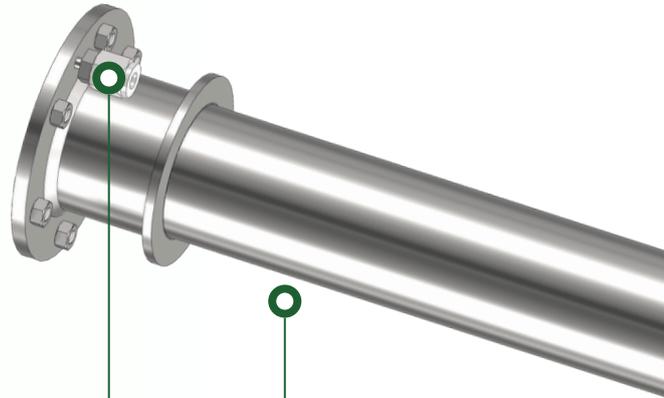
Thin, innovative heat bridge

3 x lower convective heat leak

Narrow bayonets mating gap

No mating failure

Cold-hardened low roughness surface with tolerance < 10 μm, requires no lubricant



Extreme Cryogenic Application

For application down to 20 K

Designed for Super Insulated System

Zero hydrogen molecular conductive heat leak

Eliminate hydrogen leakage

Eliminate rapid heat transfer by hydrogen molecules

He leak tested < 1.0 x 10⁻⁹ std.cc/s

Safety & Operational Readiness

System integrity / leak monitoring

Efficient purging and low downtime

TCO ANALYSIS

