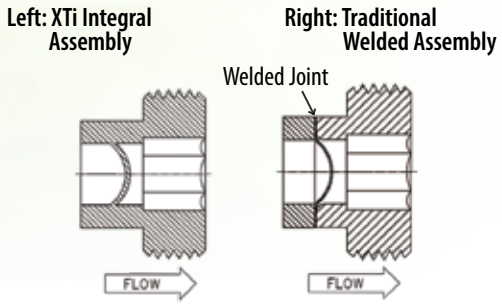
XTi™ Integral Cross-Scored Rupture Disk Assemblies

Integral XTi™ assembly vs a typical welded assembly



Materials

Solid metal construction with Stainless Steel being the primary material. Also available made from Nickel and Nickel alloys 400 and 600 series.

Designed for Critical Application

The XTi™ is suited for applications where leak integrity and reliability are critical, such as hydrogen systems, hydraulic systems and aerospace and high-pressure compressed gas applications.

Enhanced Quality / Weld Free

The XTi assemblies are 'ready to use' and with no weld to combine the rupture disk and holder, weld qualification is not required.

Introduction

The XTi Integral Assembly represents a significant advancement in rupture disk pressure relief technology by eliminating the connection between disk and holder device, a potential source of leakage in traditional assembly designs.

The XTi integrates a cross scored rupture disk directly into the same piece of material as the holder. A true one-piece assembly.

The burst pressure of the XTi assembly is determined by the precision score pattern manufactured into the membrane that seals the flow path of the assembly.

Benefits

- One-piece integral body and rupture disk construction
- Solid metal weld free design
- Simple application installation
- Ease of inspection and validation; no weld qualification
- Intrinsically leak tight
- Designed for non-fragmentation
- Compact, lightweight design
- Vacuum resistant
- High pressure integral solution ready to use
- Flexible configuration to meet users application needs

XTi™ Size and Burst Pressure Capability

Nominal Size		Minimum Burst Pressure		Maximum Burst Pressure	
inch	DN	psig	barg	psig	barg
0.25	DN8	8000	552	20000	1379
0.3	DN8	6000	414	20000	1379
0.375	DN10	4500	310	20000	1379
0.5	DN15	3500	241	20000	1379
0.75	DN20	2500	172	20000	1379
1.0	DN25	2000	138	20000	1379

For custom dimensions and sizes to suit the need of the application, please contact BS&B.

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