

HPSR

HIGH PRESSURE SCORED REVERSE - WELDED PRESSURE RELIEF DEVICE

A compression-loaded welded assembly designed for high pressure applications of 2,500 psig and above



OsecoElfab's HPSR (High Pressure Scored Reverse buckling rupture disc assembly) is designed and manufactured for demanding gas and liquid applications.

The HPSR is hydrostatically tested and can withstand full vacuum, elevated temperatures up to 600°F and 95% operating conditions. The welded design eliminates leak paths and allows for easy installation.

This makes the HPSR rupture disc assembly an ideal solution for your most demanding applications, including those considered to be very high cycling.

Size	1" - 8"
Burst Pressure	2,500 - 6,000 psig
Operating Ratio	95%
Performance Tolerance	+/-5%
Manufacturing Range	0%
Product Dimensions	Standard height matches our insert-style holders*

* Special heights available to fit any flange type or configuration, consult factory for further information

**Let us help you with all
your pressure relief questions.**

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TECHNICAL SPECIFICATIONS



Size range	1"-8" (25-200mm)
Burst pressure range	2,500-6,000 psig (172.3-413.7 barg)
Temperature range	Up to 600°F (315°C)
Standard materials*	Hastelloy® C, Inconel® 600
Max. Operating Ratio	95%
Performance Tolerance	+/-5%
Manufacturing Range	0%
Fragmentation	Non-fragmenting design
Vacuum service	Withstands full vacuum (14.7 psi) without separate vacuum support
Fluid compatibility	Gas service and liquid service
Torque requirements	Non-torque sensitive; Fully isolated pressure relief device allows for torquing to any gasket specifications.
Cycling or static service	Suitable for very high-cycling applications: tested to 48 million cycles.
Relief valve isolation	Suitable for safety relief valve isolation
Leak tightness	Welded, leak-proof design
Design standards	Designed and tested to meet ASME Section XIII standards

Related Products

One Piece Unit

Oseco Safety
Cartridge

Holders

Insert holder

Burst Pressure Ranges

HPSR Min/Max Burst Pressure @ 72° F (psig) / 22° C (barg)



SIZE		MATERIAL	MIN psig (barg)	MAX psig (barg)
(inches)	DN (mm)			
1	25	Inconel Hastelloy C	2,500 (172.3)	6,000 (413.7)
2	50	Inconel Hastelloy C	2,500 (172.3)	6,000 (413.7)
3	80	Inconel Hastelloy C	2,500 (172.3)	6,000 (413.7)
4	100	Inconel Hastelloy C	2,500 (172.3)	6,000 (413.7)
6	150	Inconel Hastelloy C	2,500 (172.3)	6,000 (413.7)
8	200	Inconel Hastelloy C	2,500 (172.3)	6,000 (413.7)

Burst Tolerance

+/-2 psig at or below
40 psig (2.8 barg)

+/-5% above
40 psig (2.8 barg)