



TECHNICAL DATASHEET

HIP/HRP Holders

Ensuring Maximum Reliability for Rupture Discs

HIP/HRP holders are specifically designed to ensure maximum reliability, optimize flow (due to optimal opening of rupture discs), assure proper orientation in piping system, provide a tight seal, and prevent fragmentation of DonadonSDD rupture discs.

Typically, a bursting disc holder is a two-piece unit consisting of a base flange (inlet) and a hold-down flange (outlet). The face of the holder is machined to hold the bursting disc and forms a leak-tight metal-to-metal seal.

This prevents the rupture disc from being damaged and allows unlimited inspection scenarios (temporary removal of the rupture disc for visual inspection)

These holders are mounted between flanges and the pre-tightened design ensure an easy installation, even in situations where horizontal pipe access is required. The purpose of the pre-torqueable holder designs are to allow rupture discs to be installed and then “torqued” to recommended static load levels ensuring proper clamping of the rupture disc within the assembly. This can take place at a workbench rather than in the field where conditions could be less than ideal, greatly reducing the possibility of assembly errors. Once together, the rupture disc assembly may then be delivered to the field location and installed between

companion flanges where additional torque loads applied are essential for proper functionality of the assembly. These assemblies may also be removed, inspected, and replaced during routine maintenance schedules and plant turnarounds without compromising disc performance as long as the disc is not removed.

Keyfeatures & technical benefits

- HIP and HRP holders offer advantages such as straightforward installation, verification of proper installation, and the option for laboratory verification and pre-assembly with rupture discs.
- Internal diameter sized to allow full opening of the disc and total transmission on the minimal discharge area.
- External tangent diameter to the bolts for easy centring between flanges.
- Double milled groove design prevents incorrect installation of rupture discs.
- HRA holders protect the disc dome of reverse acting discs, such as models SCR, Y90, and KRD.
- The flow arrows on the holder and rupture disc tags confirm proper flow direction.
- Reduced surface finish between 125 and 250 microinches (3,2 to 6,3 micrometres) is available on request.
- Tongue/Groove face finishing (according to DIN EN 1092-1) available on request
- Gauge tap connection (1/4" or 1/2") NPT are available on request.

Why Choose DonadonSDD?

- HIP and HRP holders allow for convenient verification of proper installation, ensuring accurate and secure mounting of rupture discs.
- Upon request, DonadonSDD can verify HIP and HRP disc holders and supply them pre-assembled with their own rupture discs, ready for direct insertion into the plant.
- Our holders are customizable and can be manufactured to comply with a comprehensive range of international flange standards, including but not limited to EN 1092-1 (European Standard), ASME (American Society of Mechanical Engineers), ANSI (American National Standards Institute), BS (British Standards), AS (Australian Standards), SABS (South African Bureau of Standards), and JIS (Japanese Industrial Standards). This ensures our products meet the diverse and specific requirements of our customers.
- O-ring options are available to offer improved leakage performance for high-integrity applications, such as those involving hydrogen or in the nuclear field.
- Available in a wide range of standard sizes, configurations, and materials (carbon steel, 316L and 304L stainless steel, alloy 201, alloy 400, alloy 625, alloy C276, and more).
- Special treatments like PFA coating are available, offering excellent chemical resistance and non-stick properties.
- Holders can be tailored to contain the entire petal/s at the disc opening, ensuring optimal performance (recommended when installed directly under relief valves).

TECHNICAL DATA

TYPE	HIP	HRP
DISC COMPATIBILITY LIST	DCD , LPD , SCD , GR	SCR , Y90 , KRD

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DIMENSIONS	From DN15 (½ inch) to DN1000 (40 inches)	
ACCESSORIES	Nipples, T connectors, excess flow valve, pressure gauge	