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Iran Rupture Disc
IRRUP

The first & only manufacturer of
Rupture Disc in Iran.

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Atieh Pardazan Sharif

Rupture Disc

About us:

The Atieh Pardazan Zohour Sharif Company (APZ Sharif) is one of the knowledge-based companies producing high - tech equipment in the oil , gas and petrochemical industries. The APZ Sharif.Co is one of the joint companies of Sharif University of Technology which has already been able to implement more than 50 manufacturing contracts and delivery of specialized products , optimization , aging of life and counseling , which were mainly in the petrochemical industry.

With its knowledge and experience, the company performs its design and production of a critical quality device named Rupture Disc for the first time in Iran. The company also has a complete construction, testing and quality control of Rupture Disc equipment. The company offers its product as IRRUP to the market.



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What is a Rupture Disc?

A bursting disc safety device is a non-reclosing pressure relief device used to protect pressure equipment such as pressure vessels, piping, gas cylinders or other enclosures from excessive pressure and/or excessive vacuum.

A bursting disc safety device typically comprises an assembly of components including a bursting disc, a bursting disc holder and, where necessary, other components such as back pressure supports, stiffening rings etc.

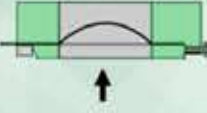
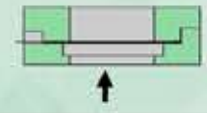
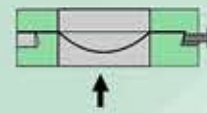
The bursting disc is a pressure-containing and pressure-sensitive part of the bursting disc safety device and is designed to open by bursting at a pre-determined pressure. There are many different types of bursting disc safety devices manufactured in corrosion resistant materials, both metallic and non-metallic, to cover a wide range of nominal sizes, burst pressures and temperatures.

Why use a Rupture Disc?

- Provide protection to personnel, equipment and plant
- Passive non-mechanical device. No moving parts.
- Bubble-tight "ZERO leakage"
- Extremely fast opening providing instantaneous relief
- Available in a wide variety of corrosion resistant materials
- Low cost
- Protects safety relief valves against corrosion, plugging, and leakage
- Cost effective maintenance



Rupture Disc Models & Specifications

Model	Type	Name	Disc Sizes (inch)	Burst Pressure (barg)	Material	Loading Direction	Manufacturing Design Range	Operating Ratio	Vacuum Support Required	Non-Fragmentation
Forward Acting	Simple	F	1/2 - 10	8 - 650	Standard ⁽ⁱ⁾		±10 %	70 %	Maybe required	No
	Scored	FS	1 - 12	1 - 50	Standard ⁽ⁱ⁾		±10 % , ±5 %	80 %	Maybe required	Yes
	Composite	FC	1 - 40	0.1 - 35	Standard ⁽ⁱ⁾		±5 % , 0 %	75 %	Yes	Yes
Flat	Composite	T	1 - 40	0.1 - 15	Standard ⁽ⁱ⁾		±10 % , ±5 %	50 %	Yes	Yes
Reverse Acting	Simple	P	1 - 12	0.2 - 10	Standard ⁽ⁱⁱ⁾		±10 % , ±5 %	80 %	No	Yes
	Scored	PS	1 - 20	1 - 95	Standard ⁽ⁱⁱ⁾		±5 % , 0 %	80 %	No	Yes
	Crossed	PC	1 - 8	3 - 110	Standard ⁽ⁱⁱ⁾		±5 % , 0 %	80 %	No	Yes

⁽ⁱ⁾ Standard materials: aluminum, nickel alloy 200, Inconel® alloy 600, Monel® alloy 400, 316 SS, Hastelloy® alloy C-276
Special materials: tantalum, titanium
Teflon® is generally used. Other appropriate fluopolymer film may be supplied

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Test Equipments

Certificates & Licenses

Since Rupture Disc is a hi-tech product, it is important to manufacture it in an organization with a high degree of knowledge.

Therefore, since the IRRUP Company is committed to assuring customers, has equipped itself with an advanced lab in order to test rupture discs function and a better description of its producing procedure. Moreover, align with this goal, there are some rupture forming and testing equipment for different fluids both liquid and gas in IRRUP lab. These devices are able to evaluate produced rupture disks' performance regarding the ISO 4126-2 strict standard.



IRRUP rupture discs are designed and manufactured according to ISO 4126-6, API 520, ASME Section VIII Division 1 standards And are testing according to ISO 4126-2 standard. In 2015, IRRUP obtained testing standard from ISO 4126-2.



Our Customers:

Irup Company with years of experience has done more than 150 projects with well-known companies including following:



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