



*... a breakthrough  
in the science of  
rupture disk  
technology*

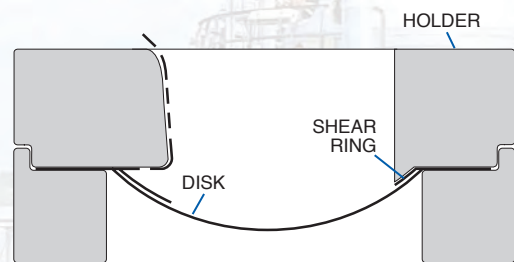


**Unique holder ensures  
proper disk orientation**



### Features

- Single disk design covers 95% of plant requirements
- Scoreless design offers higher cycle life when compared to scored reverse-acting disks
- Low and high burst pressures available in a single design
- Excels in liquid or gas applications
- 0% manufacturing range is standard
- Operates to 90% of the disk's rated burst pressure
- Non-fragmenting design
- Withstands full vacuum without vacuum support
- Excellent for isolating safety relief valves
- Damage ratio of 1.0 or less
- Resists product buildup. Only the smooth convex side of the disk is exposed to the process medium
- Additional TFE corrosion protection available (specify URA-L)
- 3-dimensional stainless steel tag is standard
- ASME UD marking available



**PRESSURE**

The process pressure is applied to the convex side of the URA Disk placing the dome of the disk into compression. As the pressure rises past 90%, the dome becomes unstable eventually collapsing onto a shear ring that efficiently cuts the disk wide open upon reversal. The state-of-the-art shear ring allows the disk to function on both low pressure and liquid applications.

## URA Disk

Minimum and Maximum Pressures Ratings – **psig (bar)** @72°F (22°C)  
Temperature Specifications

| Disk Size  | Minimum URA-L with TFE Liner | Disk Material Burst Pressure Range |               |               |               |               |               |               |               |               |               |
|------------|------------------------------|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
|            |                              | Nickel                             |               | Inconel       |               | Monel         |               | 316SS         |               | Hastelloy     |               |
|            |                              | min.                               | max.          | min.          | max.          | min.          | max.          | min.          | max.          | min.          | max.          |
| 1"         | 34                           | 22                                 | 1000          | 22            | 1000          | 22            | 1000          | 24            | 1000          | 24            | 1000          |
| 25 mm      | 2.34                         | 1.52                               | 68.97         | 1.52          | 68.97         | 1.52          | 68.97         | 1.66          | 68.97         | 1.66          | 68.97         |
| 1-1/2"     | 20                           | 20                                 | 900           | 20            | 1000          | 20            | 900           | 22            | 1000          | 22            | 1000          |
| 40 mm      | 1.38                         | 1.38                               | 62.07         | 1.38          | 68.97         | 1.38          | 62.07         | 1.52          | 68.97         | 1.52          | 68.97         |
| 2"         | 18                           | 18                                 | 850           | 18            | 900           | 18            | 850           | 20            | 900           | 20            | 1000          |
| 50 mm      | 1.24                         | 1.24                               | 58.62         | 1.24          | 62.07         | 1.24          | 58.62         | 1.38          | 62.07         | 1.38          | 68.97         |
| 3"         | 16                           | 16                                 | 750           | 16            | 900           | 16            | 750           | 18            | 900           | 18            | 1000          |
| 80 mm      | 1.10                         | 1.10                               | 51.72         | 1.10          | 62.07         | 1.10          | 51.72         | 1.24          | 62.07         | 1.24          | 68.97         |
| 4"         | 14                           | 14                                 | 650           | 14            | 800           | 14            | 650           | 16            | 800           | 16            | 900           |
| 100 mm     | 0.97                         | 0.97                               | 44.83         | 0.97          | 55.17         | 0.97          | 44.83         | 1.10          | 55.17         | 1.10          | 62.07         |
| 6"         | 12                           | 12                                 | 400           | 12            | 450           | 12            | 400           | 14            | 450           | 14            | 500           |
| 150 mm     | 0.83                         | 0.83                               | 27.59         | 0.83          | 31.03         | 0.83          | 27.59         | 0.97          | 31.03         | 0.97          | 34.48         |
| 8"         | 12                           | 12                                 | 250           | 12            | 300           | 12            | 250           | 12            | 300           | 12            | 350           |
| 200 mm     | 0.83                         | 0.83                               | 17.24         | 0.83          | 20.69         | 0.83          | 17.24         | 0.83          | 20.69         | 0.83          | 24.14         |
| Max. Temp. | 500°F (260°C)                | 750°F (399°C)                      | 900°F (482°C) | 800°F (427°C) | 900°F (482°C) | 900°F (482°C) | 900°F (482°C) | 900°F (482°C) | 900°F (482°C) | 900°F (482°C) | 900°F (482°C) |

### General Notes:

- Standard Shear Ring material is 316SS  
Other materials available
- Larger sizes and other materials are available  
Contact ZOOK

MONEL - TM Huntington Alloys  
INCONEL - TM International Nickel  
HASTELLOY - TM Cabot Corp.

## Manufacturing Range Burst Tolerance @ 72°F (22°C)

| Specified Burst Pressure psig (bar) | Available Manufacturing Ranges | Burst Tolerance |
|-------------------------------------|--------------------------------|-----------------|
| 40 (2.76) and below                 | 0%, -5%, -10%                  | ± 2 psig (0.14) |
| Above 40 (2.76)                     | 0%, -5%, -10%                  | ± 5%            |

### Notes:

- 0% manufacturing range is standard.  
Disk will be marked with specified rating
- Burst tolerances are the maximum expected variation from the disk's marked burst pressure

# URA-I Series Disk Holder

### Features

- Insert type Rupture Disk Holder – designed exclusively to be used with the URA Series Rupture Disk
- Non-torque sensitive flat seat design
- The URA-I Holder and Rupture Disk are assembled using safety designed side clips
- Standard materials of construction: 316SS and carbon steel. Other materials available upon request
- Permanently attached stainless steel nameplates are standard. Nameplates indicate flow direction and provide visual verification that holder assembly is properly oriented in the piping system
- Available options include: gauge tap; nipple and tee; excess flow valve; pressure gauge; J-hook; special facings and coatings



### Holder Dimensions – Inches (mm)

| Nominal Size | ASME B16.5 Flange Classes ■ |                      | Height   |
|--------------|-----------------------------|----------------------|----------|
|              | Class 150 O.D.              | Class 300/600 ▲ O.D. |          |
| 1"           | 2-1/2"                      | 2-3/4"               | 1-1/2"   |
| 25 mm        | 63.50                       | 69.85                | 38.10    |
| 1-1/2"       | 3-1/4"                      | 3-5/8"               | 1-5/8"   |
| 40 mm        | 82.55                       | 92.08                | 41.28    |
| 2"           | 4"                          | 4-1/4"               | 1-3/4"   |
| 50 mm        | 101.60                      | 107.95               | 44.45    |
| 3"           | 5-1/4"                      | 5-3/4"               | 2-1/8"   |
| 80 mm        | 133.35                      | 146.05               | 53.98    |
| 4"           | 6-3/4"                      | 7"▲                  | 2-7/8"   |
| 100 mm       | 171.45                      | 177.80               | 73.03    |
| 6"           | 8-5/8"                      | 9-3/4"▲              | 3-11/16" |
| 150 mm       | 219.08                      | 247.65               | 93.68    |
| 8"           | 10-7/8"                     | 12"▲                 | 3-13/16" |
| 200 mm       | 276.23                      | 304.80               | 96.85    |

- Available to fit DIN and JIS flanges
- ▲ Contact ZOOK for flange class rating 600



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