

ZOOK's Fluoropolymer Sintered Graphite Rupture Disk offers enhanced features when compared to resin impregnated graphite disks. The Fluoropolymer coating is sintered at a high temperature onto a graphite blank. The durable coating seals the graphite material, which enhances corrosion resistance and allows the disk to operate from sub-zero to elevated temperatures with minimal effect on burst performance.

Features

- The best choice for highly corrosive, broad temperature range and low burst applications where vacuum is present
- Available in nominal sizes 1-1/2" (40 mm) thru 10" (250 mm) diameters
- Burst ratings up to 30 psig (2.07 barg) (Use FS Inverted Type for higher burst ratings)
- 0% manufacturing range is standard
- Carbon steel armor standard, 316 optional
- Furnished complete with set of PTFE gaskets – attached
- Extended temperature range: -290°F to +500°F (-179°C to +260°C)
- PED (CE) compliance available



Specifications

| Disk Size | | | | | MNFA | | Thickness* | | Outside Diameter | | | | | | | | | | | | | | Burst Ratings | | | | Temperature | | | | |
|-----------|-----|-----------|-----|----------------------------|-------|--------------------------------------------------------------------|------------|------------------|------------------|-------|-------|-------|----------|-------|-------|-------|-------|-------|----------------------------|----------------------------|----------------------------|----------------------------|---------------|-------|------|------|-------------|-------------|--------------|-------------|-----|
| NPS | DN | Actual ID | | w/ Integral Vacuum Support | | (Flange Group 1) ASME CI 150 PN6 / 10 / 16 / 20 JIS 5K / 10K / 16K | | ASME B16.5 Class | DIN & ISO | | | | ISO ONLY | | JIS | | | | Min Pressure (All Flanges) | Min Pressure (All Flanges) | Max Pressure (All Flanges) | Max Pressure (All Flanges) | °F | °C | | | | | | | |
| | | in | mm | in | mm | in | mm | | 150 | PN6 | | PN10 | | PN16 | | PN20 | | 5K | | | | | | | 10K | | 16K | | | | |
| 1 | 25 | | | | | | | | | | | | | | | | | | | | | | | 20 | 1.38 | 1000 | 68.97 | -290 to 500 | -179 to 260 | | |
| 1-1/2 | 38 | 40 | 1.5 | 38 | 0.76 | 492 | 1.13 | 28.7 | 3.25 | 82.5 | 3.39 | 86.1 | 3.62 | 91.9 | 3.62 | 91.9 | 3.25 | 82.5 | 3.15 | 80.0 | 3.39 | 86.1 | 3.39 | 86.1 | 20 | 1.38 | 1000 | 68.97 | -290 to 500 | -179 to 260 | |
| 2 | 50 | 50 | 2 | 50 | 1.36 | 877 | 1.13 | 28.7 | 4.00 | 101.6 | 3.78 | 96.0 | 4.21 | 106.9 | 4.21 | 106.9 | 4.00 | 101.6 | 3.54 | 89.9 | 3.98 | 101.0 | 3.98 | 101.0 | 15 | 1.03 | 300 | 20.69 | -290 to 500 | -179 to 260 | |
| 2-1/2 | 64 | 65 | 2.5 | 64 | 2.58 | 1,664 | 1.13 | 28.7 | 4.75 | 120.6 | 4.59 | 116.5 | 5.00 | 127.0 | 5.00 | 127.0 | 4.75 | 120.6 | 4.52 | 114.8 | 4.76 | 120.9 | 4.76 | 120.9 | ■ | ■ | ■ | ■ | ■ | ■ | |
| 3 | 76 | 80 | 3 | 76 | 3.87 | 2,496 | 1.13 | 28.7 | 5.25 | 133.3 | 5.20 | 132.0 | 5.59 | 141.9 | 5.59 | 141.9 | 5.25 | 133.3 | 4.96 | 125.9 | 5.16 | 131.0 | 5.39 | 136.9 | 10 | 0.69 | 300 | 20.69 | -290 to 500 | -179 to 260 | |
| 4 | 102 | 100 | 4 | 102 | 5.77 | 3,722 | 1.13 | 28.7 | 6.75 | 171.4 | 5.98 | 151.8 | 6.38 | 162.0 | 6.38 | 162.0 | 6.75 | 171.4 | 5.75 | 146.0 | 6.14 | 155.9 | 6.38 | 162.0 | 8 | 0.55 | 250 | 17.24 | -290 to 500 | -179 to 260 | |
| 6 | 153 | 150 | 6 | 152 | 14.78 | 9,535 | 1.13 | 28.7 | 8.63 | 219.2 | 8.15 | 207.0 | 8.58 | 217.9 | 8.58 | 217.9 | 8.63 | 219.2 | 8.31 | 211.0 | 8.54 | 216.9 | 9.25 | 234.9 | 4 | 0.28 | 170 | 11.72 | 100 and less | 38 and less | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 8 | 0.55 | 85 | 5.86 | >100 | >38 |
| 5 | 127 | 125 | 5 | 127 | 8.39 | 5,412 | 1.13 | 28.7 | 7.75 | 196.8 | 7.16 | 181.8 | 7.55 | 191.7 | 7.55 | 191.7 | 7.75 | 196.8 | 7.12 | 180.8 | 7.36 | 186.9 | 7.87 | 199.9 | ■ | ■ | ■ | ■ | ■ | ■ | |
| 8 | 203 | 200 | 8 | 203 | 25.81 | 16,651 | 1.38 | 35.0 | 10.88 | 276.3 | 10.31 | 261.8 | 10.75 | 273.0 | 10.75 | 273.0 | 10.88 | 276.3 | 10.12 | 257.0 | 10.51 | 266.9 | 11.20 | 284.4 | 4 | 0.28 | 170 | 11.72 | 100 and less | 38 and less | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 6 | 0.41 | 85 | 5.86 | >100 | >38 |
| 10 | 254 | 250 | 10 | 254 | 32.66 | 21,070 | 1.75 | 44.4 | 13.25 | 336.5 | 12.48 | 316.9 | 12.91 | 327.9 | 12.95 | 328.9 | - | - | 12.68 | 322.0 | 12.99 | 329.9 | 13.90 | 353.0 | 3 | 0.21 | 150 | 10.34 | 100 and less | 38 and less | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | 4 | 0.28 | 80 | 5.52 | >100 | >38 |

Notes:
 *Overall thickness dimension includes two 1/8" (3.18 mm) thick gaskets
 ■ Contact ZOOK
 • For burst pressures above 25 psig (1.72 barg) refer to FS-Inverted Type disk
 • All pressures shown are based on an ambient temperature of 72°F (22°C)
 • Not all minimum/maximum pressure and temperature combinations are available. Please contact ZOOK for more information
 • Unless otherwise noted, stated MNFA and Kr values apply to the rupture disk only and does not include the addition of external vacuum supports or insulated units