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Type D™ Composite Rupture Disk



BS&B Quick-Sert Safety Head



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Type D™ Composite Forward Acting Rupture Disks

Type D™ rupture disks consist of a slotted metal top section and a metal or fluorocarbon seal for low burst pressure. Since the top section has open slots, the seal isolates it from process media to prevent leakage. When in service, pressure is applied to the concave side of the disk, putting the disk in a tension loaded condition. When vacuum or back pressure are present, in any amount, the seal must have a structural support.

| | |
|-------------------------|---|
| Available Sizes | 1 - 44 inches (25 - 1,100mm) |
| Temperature | FEP fluoropolymer seal: -40°F to 400°F (-40°C to 204°C), PTFE fluoropolymer seal: -40°F to 500°F (-40°C to 260°C), PFA fluoropolymer seal: -40°F to 400°F (-40°C to 204°C), Metal seal: -320°F to 1000°F (-196°C to 538°C) |
| Top Section | Standard metals: 316ss, Inconel® (alloy 600), nickel (alloy 200), and Monel® (alloy 400), Hastelloy® C-276 (alloy C-276), titanium and tantalum |
| Seal | Standard materials: fluoropolymer film, PTFE, PFA, 316ss, nickel (alloy 200), Inconel® (alloy 600), Monel® (alloy 400), Hastelloy® C-276 (alloy C-276), silver, and aluminum, Special metals: platinum, titanium and tantalum |
| Vacuum Support | Standard materials: 316ss, Inconel® (alloy 600), nickel (alloy 200), Monel® (alloy 400), Hastelloy® C-276 (alloy C-276), titanium and tantalum |
| Protective Ring | Standard materials: 316ss, Inconel® (alloy 600), nickel (alloy 200), Monel® (alloy 400), Hastelloy® C-276 (alloy C-276), titanium and tantalum |
| Soft Gasket Ring | Aluminum or fluoropolymer film |

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Burst Pressure Tolerances

| Marked Burst Pressure | Burst Tolerance |
|---|--------------------------|
| > 2 to < 15 psig (> 0.14 to < 1.03 barg) | ±1.5 psig (+0.1 barg) |
| 15 to < 40 psig (1.03 to < 2.8 barg) | ±2.0 psig (0.14 barg) |
| ≥40 | ±5% |

Features

- Gas and liquid service
- Suitable for operating pressure to 80% of the marked burst pressure
- Designed for non-fragmentation
- Available in sizes 1 through 44 inches (25 through 1,100mm)
- Flange type installation in BS&B type FA-7R safety heads.
- Threaded or welded union type installation in BS&B type UA safety heads

Maximum Temperature for all Type D Disk Components



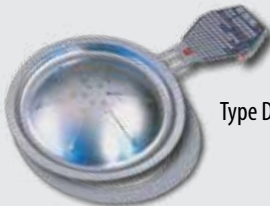




| Disk Material | F° | C° |
|-------------------------------------|------|-----|
| FEP | 400 | 204 |
| PFA | 400 | 204 |
| PTFE | 500 | 260 |
| Aluminum | 800 | 427 |
| Silver | 800 | 427 |
| Nickel alloy 200 | 1000 | 538 |
| Monel® (alloy 400) | 1000 | 538 |
| Inconel® (alloy 600) | 1000 | 538 |
| 316ss | 1000 | 538 |
| Hastelloy® B or C-276 (alloy C-276) | 1000 | 538 |

Manufacturing Design Range

| Desired Pressure Rating | | Test specimens must rupture within limits below of the pressure specified | | | |
|-------------------------|-------------|---|-----|-------|-----|
| psig | bar | Plus | | Minus | |
| | | psig | bar | psig | bar |
| 2.5 - 3.5 | 0.2 - 0.3 | 1 | 0.1 | 1 | 0.1 |
| 4 - 6 | 0.3 - 0.4 | 2 | 0.1 | 1 | 0.1 |
| 7 - 10 | 0.5 - 0.7 | 2.5 | 0.2 | 1.5 | 0.1 |
| 11 - 16 | 0.8 - 1.1 | 3 | 0.2 | 2 | 0.1 |
| 17 - 25 | 1.2 - 1.8 | 4 | 0.3 | 2 | 0.1 |
| 26 - 40 | 1.8 - 2.8 | 5 | 0.4 | 3 | 0.2 |
| 41 - 65 | 2.9 - 4.6 | 6 | 0.4 | 4 | 0.3 |
| 66 - 100 | 4.6 - 7.0 | 9 | 0.6 | 5 | 0.4 |
| 101 - 150 | 7.1 - 10.6 | 12 | 0.8 | 6 | 0.4 |
| 151 - 200 | 10.6 - 14.1 | 16 | 1.1 | 9 | 0.6 |
| 201 - 350 | 14.1 - 24.6 | 23 | 1.6 | 12 | 0.8 |
| 351 - 500 | 24.7 - 35.2 | -35.2 | 2.1 | 15 | 1.1 |
| 501 & up | 35.2 & up | 6% | 6% | 3% | 3% |

Type D™ Rupture Disk



| Disk Types | Description | |
|------------|---|--|
| D | Type D rupture disks consist of a slotted metal top section and either a metal or fluorocarbon seal. Pressure is applied to the concave side, subjecting the disk to tension loading. |  <p>Type D rupture disk</p> |
| DV | When vacuum is involved in any amount, a vacuum support is required. Adding a ring to the outlet side aids handling and installation, and is a type DRV disk. Ring material is nickel, aluminum, Monel® or 316ss. |  <p>Type DV rupture disk</p> |
| DR | At low burst pressures a type DR rupture disk is recommended to aid handling and installation ring material is nickel, aluminum, Monel® or 316ss. |  <p>Type DR rupture disk</p> |
| DRR | The type DRR rupture disk is recommended for optimal handling and installation. |  <p>Type DRR rupture disk</p> |
| DRV | A type D disk with a protective ring attached to the top of the disk and vacuum support attached. |  <p>Type DRV rupture disk</p> |
| DSV | For strong vacuum service the type DSV rupture disk is recommended. The soft ring on the disk inlet side aids sealing to the safety head. Ring material is nickel, aluminum. Adding a ring to the outlet side aids handling and installation and is a type DRSV disk. |  <p>Type DSV rupture disk</p> |
| PLD | A type D disk with fluoropolymer attached to top (atmospheric) side of the disk. Type PLDV rupture disk is similar in appearance. Vacuum support is integral to the PLDV disk. |  <p>Type PLD rupture disk</p> |

Forward Acting Tension Loaded Disks

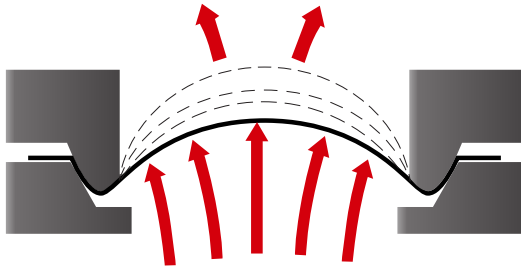
Bolted Type Safety Heads

for type D series rupture disks

BS&B Safety Systems bolted type safety heads are constructed to be compatible with user pipe flanges connections. Safety head inlets and outlets feature angular seating design to accommodate both type B solid metal disks and type D composite disks.

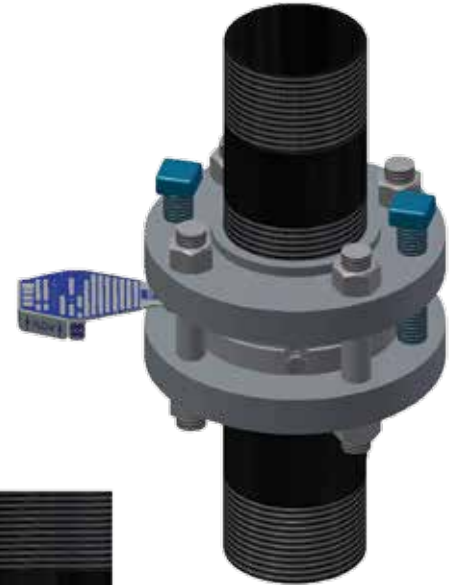
BS&B bolted type safety heads are available in standard sizes ranging from 1/2 (12 mm) - 44 inches (1100 mm) nominal size.

Standard materials for bolted type safety heads are carbon steel, 304 and 316 stainless steel. Special materials include Monel®, nickel, Hastelloy® B and C, aluminum, brass and other types of stainless steel. Glass-lined base and plastic-coated are also available.

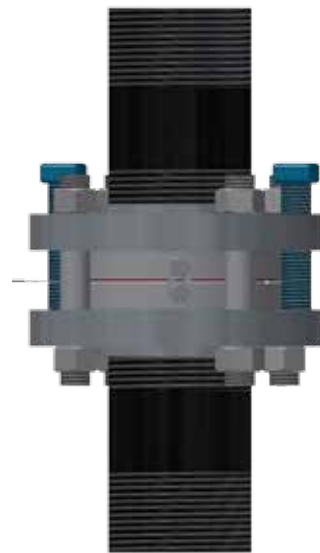


Example: Cross-section diagram of a Type B tension loaded conventional rupture disk and FA-7R Quick-Sert safety head. With 30-degree angular seating, pressure loading is on concave side of disk. This puts the disk metal under tension. As pressure increases on a conventional disk in tension, the seating design allows the dome to thin out to a point where it can no longer withstand the pressure. The disk ruptures and metal segments fold back against the walls of the fitting in an irregular pattern to provide a full opening.

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Quick-Sert installed between two ANSI (ASA) pipe flanges



BS&B Quick-Sert safety head - flanges are assembled with bolted side lugs in sizes through 8 inches ID - with recessed cap screws in 10 inch size and up

Refer to catalog #77-1002 for additional safety head information.

Composite Disks: Type D, DV, DR, DRR, DRV, DSV, PLD

Disk Seal Material

| Disk Size | | FEP | | | | PTFE | | | | Aluminum | | | | Silver | | | | Nickel (alloy 200) | | | |
|-----------|-----|------|------|------|-----|------|------|------|-----|----------|------|------|-----|--------|------|------|-----|--------------------|------|------|-----|
| in | mm | psig | | barg | | psig | | barg | | psig | | barg | | psig | | barg | | psig | | barg | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 1 | 25 | 89 | 1000 | 6 | 70 | 44 | 1000 | 3 | 70 | 50 | 1600 | 4 | 113 | 110 | 2000 | 8 | 141 | 180 | 2000 | 13 | 141 |
| 1.5 | 40 | 63 | 700 | 4 | 49 | 31 | 700 | 2 | 49 | 33 | 1300 | 2 | 91 | 73 | 1400 | 5 | 99 | 120 | 1400 | 8 | 99 |
| 2 | 50 | 31 | 555 | 2 | 39 | 15 | 555 | 1 | 39 | 20 | 960 | 1 | 68 | 43 | 1100 | 3 | 77 | 69 | 1100 | 5 | 77 |
| 3 | 80 | 25 | 450 | 2 | 32 | 11 | 450 | 1 | 32 | 15 | 730 | 1 | 51 | 32 | 650 | 2 | 46 | 52 | 900 | 4 | 63 |
| 4 | 100 | 19 | 415 | 1 | 29 | 8 | 415 | 1 | 29 | 12 | 630 | 1 | 44 | 24 | 600 | 2 | 42 | 39 | 830 | 3 | 58 |
| 6 | 150 | 13 | 320 | 1 | 23 | 6 | 320 | 0.4 | 23 | 9 | 485 | 1 | 34 | 18 | 500 | 1 | 35 | 29 | 640 | 2 | 45 |
| 8 | 200 | 11 | 295 | 1 | 21 | 5 | 295 | 0.4 | 21 | 7 | 420 | 0.5 | 30 | 14 | 400 | 1 | 28 | 23 | 590 | 2 | 42 |
| 10 | 250 | 7 | 240 | 0.5 | 17 | 4 | 240 | 0.3 | 17 | 5 | 340 | 0.4 | 24 | 12 | 200 | 1 | 14 | 18 | 480 | 1 | 34 |
| 12 | 300 | 5 | 200 | 0.4 | 14 | 3 | 200 | 0.2 | 14 | 5 | 290 | 0.4 | 20 | - | - | - | - | 15 | 400 | 1 | 28 |
| 14 | 350 | 5 | 170 | 0.4 | 12 | 3 | 170 | 0.2 | 12 | 4 | 270 | 0.3 | 19 | - | - | - | - | 14 | 350 | 1 | 25 |
| 16 | 400 | 5 | 150 | 0.4 | 11 | 3 | 150 | 0.2 | 11 | 4 | 250 | 0.3 | 18 | - | - | - | - | 12 | 300 | 1 | 21 |
| 18 | 450 | 5 | 135 | 0.4 | 10 | 3 | 135 | 0.2 | 10 | 4 | 225 | 0.3 | 16 | - | - | - | - | 10 | 270 | 1 | 19 |
| 20 | 500 | 5 | 120 | 0.4 | 8 | 3 | 120 | 0.2 | 8 | 3 | 200 | 0.2 | 14 | - | - | - | - | 10 | 240 | 1 | 17 |
| 24 | 600 | 5 | 100 | 0.4 | 7 | 3 | 100 | 0.2 | 7 | 3 | 170 | 0.2 | 12 | - | - | - | - | - | - | - | - |
| 30 | 750 | 5 | 80 | 0.4 | 6 | 3 | 80 | 0.2 | 6 | 3 | 140 | 0.2 | 10 | - | - | - | - | - | - | - | - |

| Disk Size | | Monel® (alloy 400) | | | | Inconel® (alloy 600) | | | | 316ss | | | | Hastelloy® B or C-276 (alloy c-276) | | | |
|-----------|-----|--------------------|------|------|-----|----------------------|------|------|-----|-------|------|------|-----|-------------------------------------|------|------|-----|
| in | mm | psig | | barg | | psig | | barg | | psig | | barg | | psig | | barg | |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| 1 | 25 | 220 | 2000 | 16 | 141 | 285 | 2000 | 20 | 141 | 400 | 2000 | 28 | 141 | 680 | 2000 | 48 | 141 |
| 1.5 | 40 | 145 | 1400 | 10 | 99 | 185 | 1400 | 13 | 99 | 265 | 1400 | 19 | 99 | 265 | 1400 | 19 | 99 |
| 2 | 50 | 84 | 1100 | 6 | 77 | 109 | 1100 | 8 | 77 | 150 | 1100 | 11 | 77 | 260 | 1100 | 18 | 77 |
| 3 | 80 | 62 | 900 | 4 | 63 | 79 | 900 | 6 | 63 | 115 | 900 | 8 | 63 | 195 | 900 | 14 | 63 |
| 4 | 100 | 47 | 830 | 3 | 58 | 60 | 830 | 4 | 58 | 85 | 830 | 6 | 58 | 145 | 830 | 10 | 58 |
| 6 | 150 | 35 | 640 | 3 | 45 | 45 | 640 | 3 | 45 | 64 | 640 | 5 | 45 | 110 | 640 | 8 | 45 |
| 8 | 200 | 28 | 590 | 2 | 42 | 35 | 590 | 3 | 42 | 50 | 590 | 4 | 42 | 85 | 590 | 6 | 42 |
| 10 | 250 | 22 | 480 | 2 | 34 | 28 | 480 | 2 | 34 | 38 | 480 | 3 | 34 | - | - | - | - |
| 12 | 300 | 19 | 400 | 1 | 28 | 24 | 400 | 2 | 28 | 34 | 400 | 2 | 28 | - | - | - | - |
| 14 | 350 | 17 | 350 | 1 | 25 | 22 | 350 | 2 | 25 | 29 | 350 | 2 | 25 | - | - | - | - |
| 16 | 400 | 14 | 300 | 1 | 21 | 19 | 300 | 1 | 21 | 25 | 300 | 2 | 21 | - | - | - | - |
| 18 | 450 | 13 | 270 | 1 | 19 | 17 | 270 | 1 | 19 | 23 | 270 | 2 | 19 | - | - | - | - |
| 20 | 500 | 12 | 240 | 1 | 17 | 15 | 240 | 1 | 17 | 20 | 240 | 1 | 17 | - | - | - | - |
| 24 | 600 | - | - | - | - | - | - | - | - | 70 | 200 | 5 | 14 | - | - | - | - |
| 30 | 750 | - | - | - | - | - | - | - | - | 56 | 170 | 4 | 12 | - | - | - | - |

Notes

- If Type D, DR or PLD disk will be exposed to vacuum or back pressure, specify DV, DRV, DSV, DRSV or PLDV
- PTFE fluoropolymer for seals is standard from 1-8 inch sizes. FEP fluoropolymer for seals is standard for 10 inches and larger except when temperature is over 400°F (204°C), or pressure is less than available with PTFE
- Before specifying any disk, see table of manufacturing ranges

Composite Disks: Disk Seal Material (continued)

| Disk Size | | PLDV: Center Section Material: 316ss | | | | | | | | PLDV: Center Section Material: Nickel | | | | | | | | Max Temperature FEP | | Max Temperature PTFE | |
|-----------|-----|---|------|------|-----|------|------|------|-----|--|-----|------|-----|------|-----|------|-----|---------------------------|-----|----------------------------|-----|
| | | Disk Seal Material | | | | | | | | Disk Seal Material | | | | | | | | | | | |
| | | FEP | | | | PTFE | | | | FEP | | | | PTFE | | | | | | | |
| in | mm | psig | | barg | | psig | | barg | | psig | | barg | | psig | | barg | | °F | °C | °F | °C |
| | | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | Min | Max | | | | |
| 1 | 25 | 300 | 1000 | 21 | 70 | 300 | 1000 | 21 | 70 | 230 | 600 | 16 | 42 | 230 | 600 | 16 | 42 | 400 | 204 | 500 | 260 |
| 1.5 | 40 | 92 | 700 | 7 | 49 | 61 | 700 | 4 | 49 | 140 | 700 | 10 | 49 | 105 | 450 | 7 | 32 | 400 | 204 | 500 | 260 |
| 2 | 50 | 100 | 555 | 7 | 39 | 100 | 555 | 7 | 39 | 75 | 395 | 5 | 28 | 75 | 395 | 5 | 28 | 400 | 204 | 500 | 260 |
| 3 | 80 | 65 | 450 | 5 | 32 | 65 | 450 | 5 | 32 | 45 | 315 | 3 | 22 | 45 | 315 | 3 | 22 | 400 | 204 | 500 | 260 |
| 4 | 100 | 60 | 415 | 4 | 29 | 60 | 415 | 4 | 29 | 35 | 300 | 2 | 21 | 35 | 300 | 2 | 21 | 400 | 204 | 500 | 260 |
| 6 | 150 | 75 | 320 | 5 | 23 | 75 | 320 | 5 | 23 | 45 | 225 | 3 | 16 | 45 | 225 | 3 | 16 | 400 | 204 | 500 | 260 |
| 8 | 200 | 75 | 295 | 5 | 21 | 75 | 295 | 5 | 21 | 55 | 200 | 4 | 14 | 55 | 200 | 4 | 14 | 400 | 204 | 500 | 260 |
| 10 | 250 | 60 | 240 | 4 | 17 | 60 | 240 | 4 | 17 | 35 | 160 | 2 | 11 | 35 | 160 | 2 | 11 | 400 | 204 | 500 | 260 |
| 12 | 300 | 45 | 200 | 3 | 14 | 45 | 200 | 3 | 14 | 30 | 140 | 2 | 10 | 30 | 140 | 2 | 10 | 400 | 204 | 500 | 260 |
| 14 | 350 | 40 | 170 | 3 | 12 | 40 | 170 | 3 | 12 | 30 | 120 | 2 | 8 | 30 | 120 | 2 | 8 | 400 | 204 | 500 | 260 |
| 16 | 400 | 35 | 150 | 2 | 11 | 35 | 150 | 2 | 11 | 25 | 105 | 2 | 7 | 25 | 105 | 2 | 8 | 400 | 204 | 500 | 260 |
| 18 | 450 | 35 | 150 | 2 | 11 | 35 | 150 | 2 | 11 | 25 | 80 | 2 | 7 | 25 | 80 | 2 | 7 | 400 | 204 | 500 | 260 |
| 20 | 500 | 35 | 150 | 2 | 11 | 35 | 150 | 2 | 11 | 25 | 80 | 2 | 7 | 25 | 80 | 2 | 7 | 400 | 204 | 500 | 260 |
| 24 | 600 | 35 | 150 | 2 | 11 | 35 | 150 | 2 | 11 | 25 | 70 | 2 | 6 | 25 | 70 | 2 | 6 | 400 | 204 | 500 | 260 |

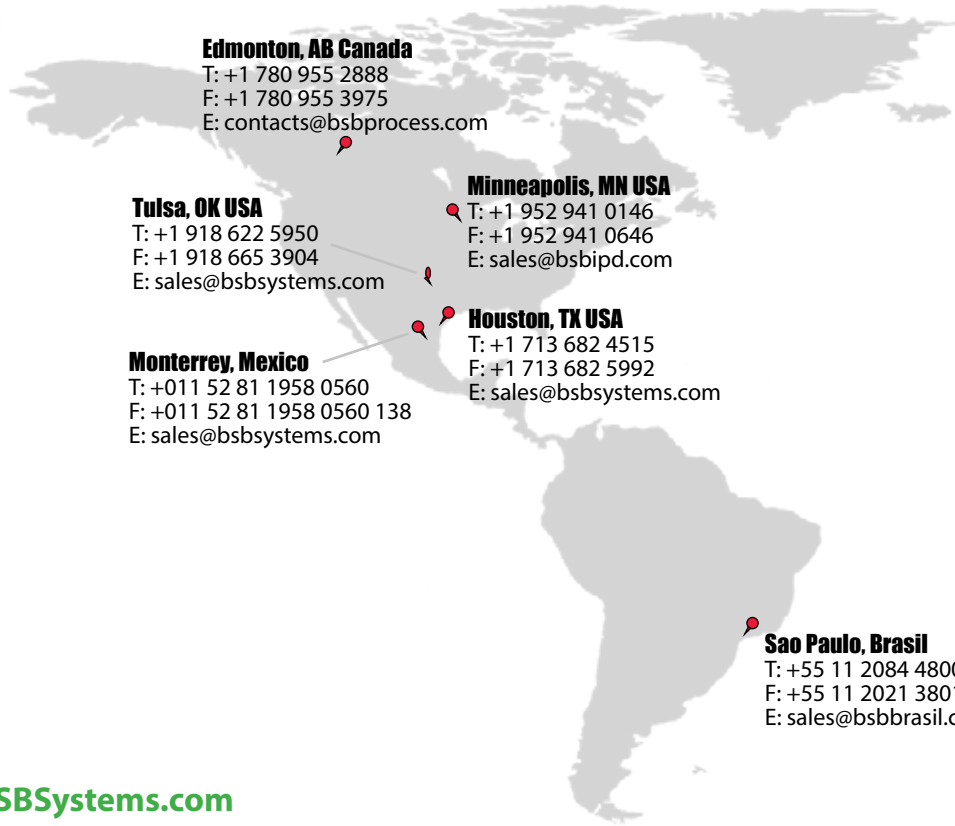
Composite Disks for Bolted Flange and Union Type Safety Heads

| Composite disk: PLD; Center Section Material 316ss | | | | | | | | | | Max Temperature FEP | | Max Temperature PTFE | |
|--|-----|--------------------|------|------|-----|------|------|------|-----|---------------------------|-----|----------------------------|-----|
| Disk Size | | Disk Seal Material | | | | | | | | | | | |
| | | FEP | | | | PTFE | | | | | | | |
| in | mm | psig | | barg | | psig | | barg | | °F | °C | °F | °C |
| | | Min | Max | Min | Max | Min | Max | Min | Max | | | | |
| 1 | 25 | 130 | 1000 | 9 | 70 | 87 | 1000 | 6 | 70 | 400 | 204 | 500 | 260 |
| 1.5 | 40 | 92 | 700 | 7 | 49 | 61 | 700 | 4 | 49 | 400 | 204 | 500 | 260 |
| 2 | 50 | 45 | 555 | 3 | 39 | 30 | 555 | 2 | 39 | 400 | 204 | 500 | 260 |
| 3 | 80 | 32 | 450 | 2 | 32 | 11 | 450 | 1 | 32 | 400 | 204 | 500 | 260 |
| 4 | 100 | 24 | 415 | 2 | 29 | 16 | 415 | 1 | 29 | 400 | 204 | 500 | 260 |
| 6 | 150 | 18 | 320 | 1 | 23 | 12 | 320 | 1 | 22 | 400 | 204 | 500 | 260 |
| 8 | 200 | 16 | 295 | 1 | 21 | 11 | 295 | 1 | 21 | 400 | 204 | 500 | 260 |
| 10 | 250 | 14 | 240 | 1 | 17 | 9 | 240 | 1 | 17 | 400 | 204 | 500 | 260 |
| 12 | 300 | 10 | 200 | 1 | 14 | 6 | 200 | 0.4 | 14 | 400 | 204 | 500 | 260 |
| 14 | 350 | 10 | 170 | 1 | 12 | 6 | 170 | 0.4 | 12 | 400 | 204 | 500 | 260 |
| 16 | 400 | 10 | 150 | 1 | 11 | 6 | 150 | 0.4 | 11 | 400 | 204 | 500 | 260 |
| 18 | 450 | 10 | 135 | 1 | 10 | 6 | 135 | 0.4 | 10 | 400 | 204 | 500 | 260 |
| 20 | 500 | 10 | 120 | 1 | 8 | 6 | 120 | 0.4 | 8 | 400 | 204 | 500 | 260 |
| 24 | 600 | 10 | 100 | 1 | 7 | 6 | 100 | 0.4 | 7 | 400 | 204 | 500 | 260 |

BS&B bolted and union type safety heads require rupture disks with angular seating design. All standard disks with angular seating are listed on the following pages. Listing is by sizes with a full selection of standard disks for each size.

Option: For available flat seat D type disks, consult BS&B.

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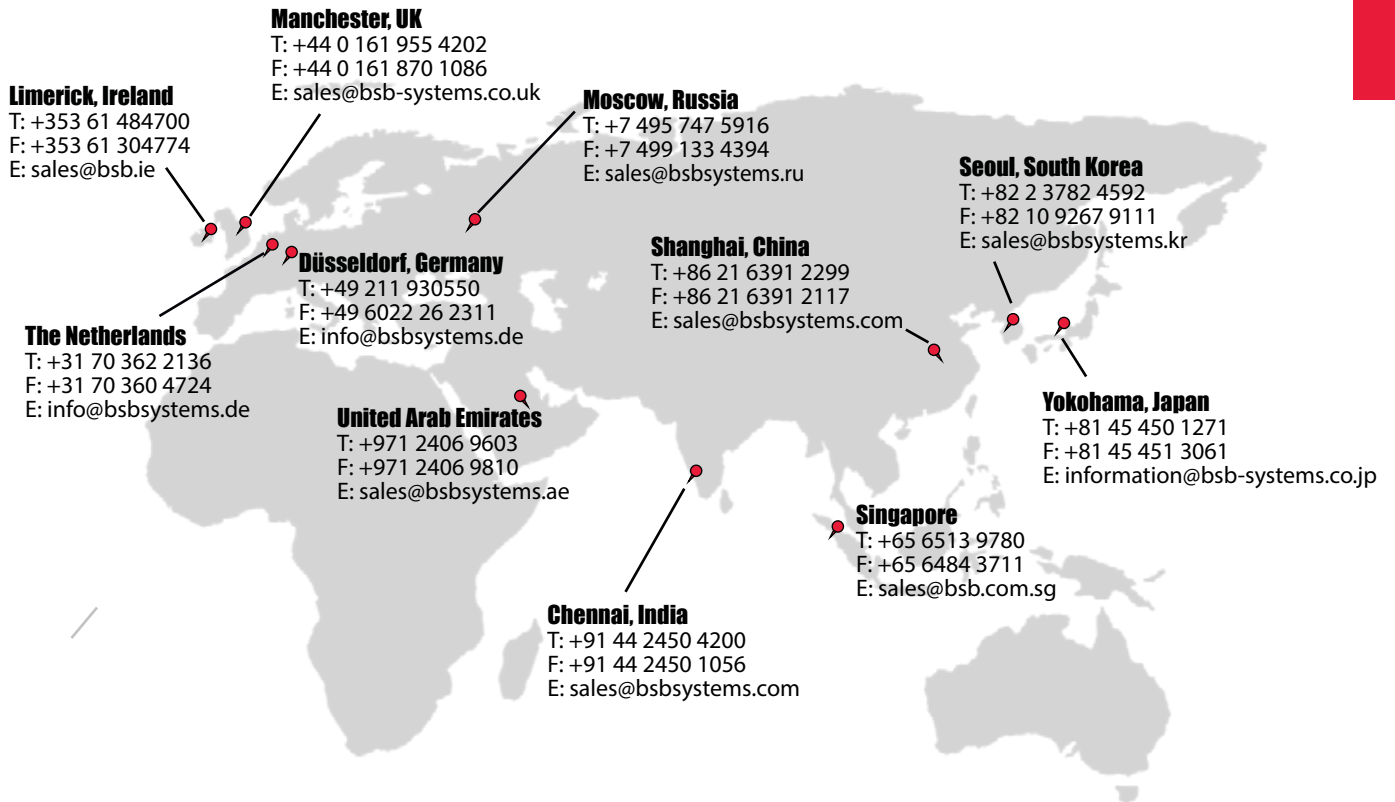
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Forward Acting Tension Loaded Disks



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