



### PTFE Lined Protection Rings

Now, you can protect your reactor investment by protecting manway contact surfaces from impact and abrasion with a 3G long life protection ring. The ring is constructed of glass-filled solid PTFE, the same material used for long life bearings in pumps, seals, and other components. Because PTFE is a resilient material, it withstands impact well. Minor cuts and scratches in the surface will not affect the sealing qualities. Solid glass-filled PTFE eliminates the chance of iron contamination even in the event of damage.

### Advantages

Protection rings are an economical solution for protecting glass-lined steel manway surface from risk of impact and abrasion with these benefits:

- Dimensionally stable 140 mill thick wear surface – minor gouges will not affect the sealing quality and will not produce iron contamination. Won't break from thermal or mechanical shock
- Fitted with welded hinges for easy mounting
- Helps prevent glass damage if cover is dropped
- Can mount to allow cover to hinge from either side
- Interchangeable with existing protection rings on 3G and competitor's equipment
- Popular sizes stocked for fast delivery.
- Metal parts are galvanized and chromate treated for long life.
- Reduces maintenance costs.

### Heavy-Duty PTFE Lined Protection Rings & Covers

Heavy-duty PTFE lined protection rings and covers from 3G are practically everlasting and work as a armour on contact surfaces. Available options include a 3.5mm thick PTFE barrier permanently bonded to steel and a 6mm PTFE encapsulated design.

### Advantages

- Economical solution for protecting glass-lined steel manway surface from risk of impact and abrasion
- Prevent Iron contamination.

### \*Thermal or mechanical shock proof.

- Fitted with welded hinges for easy mounting.
- Prevents glass damage if cover is dropped.
- Can mount to allow cover to hinge from either side.
- Interchangeable with existing protection rings on prominent reactor vessels (DE-DIETRICH/GMM/SWISSGLASS/NILE).
- Metal parts are galvanized and chrome treated for long life.
- Reduces maintenance costs.

## Dimensions and Specifications

3G PTFE protection ring is supplied ready for installation, including all hardware, J clamps, hinge adapters, etc. J clamps, hinge adapters, PTFE ring and retaining band are also available as spare parts.

| Nominal Size<br>Inches | Inside Diameter |         | Nominal Bore |         |
|------------------------|-----------------|---------|--------------|---------|
|                        | Inch            | Mm      | Inch         | Mm      |
| 9 X 12                 | 8-1/2           | 11-1/2  | 11-3/4       | 14-3/4  |
| 12 X 16                | 11-1/2          | 15-1/2  | 15           | 19      |
| 14 X 18                | 13-1/2          | 17-1/2  | 17           | 21      |
| 18 Round               | 17-1/2          | 17-1/2  | 21           | 21      |
| 20 Round               | 19-7/16         | 19-7/16 | 23-7/16      | 23-7/16 |
| 20 Round DIN           | 19-1/2          | 19-1/2  | 24           | 24      |
| 24 Round               | 23-9/16         | 23-9/16 | 27-9/16      | 27-9/16 |

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