



**RFS HYDRAULICS**  
CREATING OPPORTUNITIES



# **GS HYDRO BONDED SEALS**

## Specifications

ISO 6162 / ISO 6164

### Material Specifications

Metallic Ring: Steel/ Stainless Steel

### Size Range

1/2" – 8"

### Size Available

ANSI 36.10

ANSI 36.19

Metric size

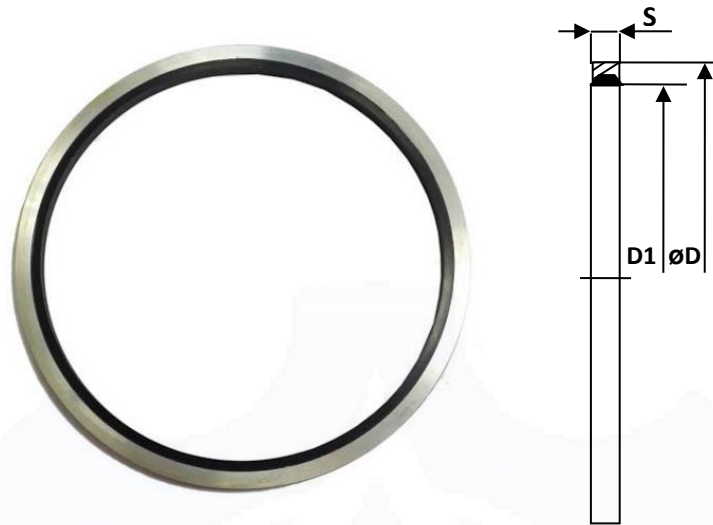
### Features

- Used in pipeline systems and provide a tight end to end connection to prevent leakage
- The seal consists of a metallic ring and a nitrile rubber seal (NBR) which joined together
- Nitrile rubber (NBR rubber)
  - An elastomer material
  - Can withstand temperature ranging from -35°C to +120°C
  - Great resistance to petroleum products, wear and tear, flame retarded fluids, abrasion and compression
- Stainless steel metallic ring (SS302)
  - Excellent resistance against corrosion
  - Resistant to harsh weather conditions
  - Also contain other elements that makes it resistant to corrosion such as:

| Elements       | Content (%) |
|----------------|-------------|
| Chromium (Cr)  | 18.2        |
| Manganese (Mn) | 1.6         |
| Carbon (C)     | 0.06        |
| Iron (Fe)      | Balance     |
| Nickel (Ni)    | 8.5         |
| Silicon (Si)   | 0.5         |



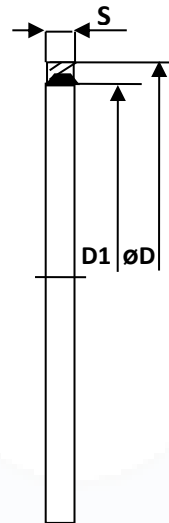
**GS Bonded Seals**

**Bonded Seal**
**ISO 6162 (SAE J 518)**

**Bonded Seal for Metric GS-pipe Ends**

| Size   | STD Part No | SS Part No | S    | D     | D1    |
|--------|-------------|------------|------|-------|-------|
| 1/2"   | 0823        | 0823SS     | 2.03 | 23.80 | 17.28 |
| 3/4"   | 1213        | 1213SS     | 2.34 | 33.27 | 24.26 |
| 1"     | 1629        | 1629SS     | 2.34 | 34.93 | 27.05 |
| 1 1/4" | 2030        | 2030SS     | 3.25 | 42.80 | 33.89 |
| 1 1/2" | 2432        | 2432SS     | 3.25 | 52.38 | 42.93 |
| 2"     | 3219        | 3219SS     | 3.25 | 63.50 | 51.69 |
| 2 1/2" | 4037        | 4037SS     | 3.25 | 75.00 | 64.39 |
| 3"     | 4839        | 4839SS     | 3.25 | 90.17 | 76.08 |

**Bonded Seal for ANSI 36.10/36.19 GS-pipe Ends**

| Size   | STD Part No | SS Part No | S    | D     | D1    |
|--------|-------------|------------|------|-------|-------|
| 1/2"   | 0821        | 0821SS     | 2.00 | 15.88 | 10.37 |
| 3/4"   | 0823        | 0823SS     | 2.03 | 23.80 | 17.28 |
| 1"     | 1633        | 1633SS     | 2.34 | 28.58 | 21.54 |
| 1 1/4" | 2042        | 2042SS     | 2.34 | 39.00 | 31.00 |
| 1 1/2" | 2448        | 2448SS     | 3.25 | 44.45 | 35.94 |
| 2"     | 3260        | 3260SS     | 3.25 | 55.50 | 46.50 |
| 2 1/2" | 4073        | 4073SS     | 3.25 | 69.85 | 54.89 |
| 3"     | 4888        | 4888SS     | 4.00 | 83.80 | 70.00 |

**Bonded Seal**
**ISO 6164**

**Bonded Seal for Metric GS-pipe Ends**

| Size   | STD Part No | SS Part No | S    | D     | D1    |
|--------|-------------|------------|------|-------|-------|
| 2"     | 3219        | 3219SS     | 3.25 | 63.50 | 51.69 |
| 2 1/2" | 4037        | 4037SS     | 3.25 | 75.00 | 64.39 |
| 3"     | 4839        | 4839SS     | 3.25 | 90.17 | 76.08 |
| 4"     | 5644        | 5644SS     | 4.00 | 110.0 | 95.00 |
| 4 1/2" | 6000        | 6000SS     | 4.00 | 126.0 | 108.0 |
| 5"     | 6455        | 6455SS     | 5.00 | 143.7 | 127.0 |
| 6"     | 8001        | 8001SS     | 8.00 | 181.0 | 155.0 |
| 8"     | 9600        | 9600SS     | 9.00 | 240.0 | 205.0 |

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| Size   | STD Part No | SS Part No | S    | D     | D1    |
|--------|-------------|------------|------|-------|-------|
| 2"     | 3260        | 3260SS     | 3.25 | 55.50 | 46.50 |
| 2 1/2" | 4073        | 4073SS     | 3.25 | 69.85 | 54.89 |
| 3"     | 4888        | 4888SS     | 4.00 | 83.80 | 70.00 |
| 4"     | 5644        | 5644SS     | 4.00 | 110.0 | 95.00 |

## RFS Hydraulics

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