



Split Stargrip® series 3000S

Split Mechanical Joint Wedge Action Restraint
for New or Existing Ductile Iron Pipe



Stargrip® series 3000S for Ductile Iron Pipe.

SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



FEATURES & ADVANTAGES

- Split design Stargrip® Series 3000S for easy installation on new or existing Ductile Iron Mechanical Joint systems.
- The Wedge Assembly is designed with a Break-Off Torque Control Nut that will only break off in one direction, ensuring proper installation.
- Offers a full 5° deflection through 12" size, 3° on 14"-24", 2° on 30"-36" and 1° on 42"-48".
- Minimum safety factor of 2:1
- The Wedge Assembly is designed to fit specific pipe sizes and is field repairable.
- Clamping bolts per SAE J429 Grade 5 steel
- Eliminates tie rods and thrust blocks
- Split Stargrip® may also be used on steel pipe* up to 12" (***transition gasket required on 12" and under**). For 14" and larger steel applications, contact Star Pipe.

MATERIAL SPECIFICATIONS:

- Gland: Ductile Iron per ASTM A536, Grade 65-45-12
- Wedges: Ductile Iron per ASTM A536, Grade 65-45-12 heat treated to a minimum of 370 BHN
 - ◆ Wedge Finish: Thermally cured fluoropolymer epoxy coating

GLAND FINISH OPTIONS (Please check one):

- Standard: alkyd enamel coating
- Optional: Starbond™ TGIC polyester powder coating applied by an electrostatic spray process
- Optional: Other (specify) _____

HARDWARE OPTIONS (Please check):

- Standard: T-bolts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00
- Optional: T-bolts and nuts alloy SS 304 per ASTM F593
- Optional: T-bolts and nuts alloy SS 316 per ASTM F593
- Optional: T-bolts and nuts Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11-00

STAR® PIPE PRODUCTS

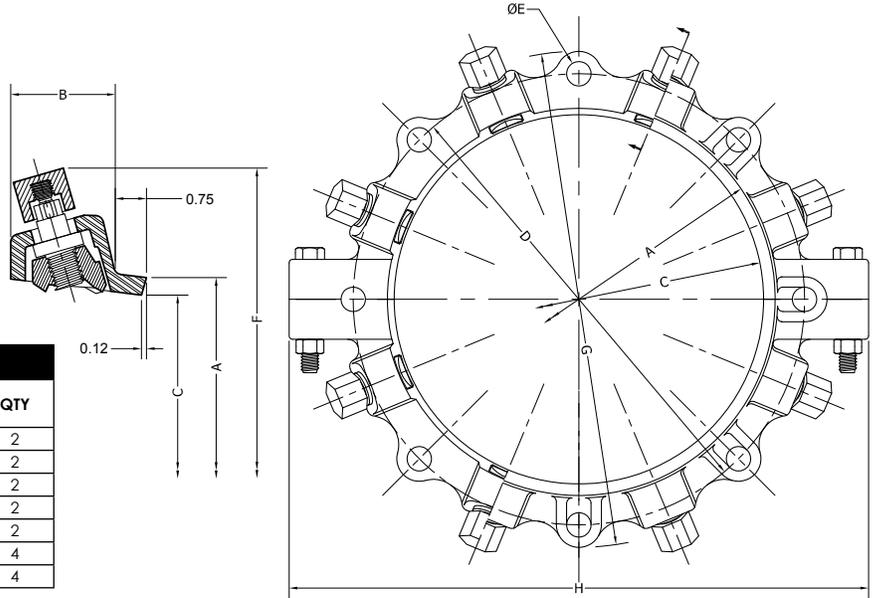


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TECHNICAL INFORMATION

STAR® PIPE PRODUCTS



| CLAMPING BOLT SIZE | | |
|--------------------|----------------|-----|
| SERIES 3000S (IN) | BOLT SIZE (IN) | QTY |
| 3-6 | 5/8 x 3 1/2 | 2 |
| 8-10 | 3/4 x 3 1/2 | 2 |
| 12 | 3/4 x 4 | 2 |
| 14-24 | 7/8 x 3 3/4 | 2 |
| 30 | 1 x 3 3/4 | 2 |
| 36 | 7/8 x 3 3/4 | 4 |
| 42-48 | 1 1/8 x 4 1/2 | 4 |

SPLIT STARGRIP® 3000S SPECIFICATIONS*

Please check sizes:

| NOM. SIZE | MAX PRESSURE RATING (PSI) | A | B | C | D | E | F | F W/ NUTS TWISTED OFF | G | H | WEDGES (QTY) | T-BOLTS (QTY) | APPROX WT. (LBS) |
|-----------|---------------------------|-------|------|-------|-------|-------|-------|-----------------------|-------|-------|--------------|---------------|------------------|
| 3 | 350 | 4.66 | 2.40 | 4.06 | 6.19 | 3/4 | 9.85 | 8.45 | 7.69 | 8.77 | 2 | 4 | 9 |
| 4 | 350 | 5.92 | 2.44 | 4.90 | 7.50 | 7/8 | 11.06 | 9.28 | 9.12 | 9.80 | 2 | 4 | 11 |
| 6 | 350 | 8.02 | 2.44 | 7.00 | 9.50 | 7/8 | 13.06 | 11.38 | 11.12 | 13.86 | 3 | 6 | 14 |
| 8 | 350 | 10.17 | 2.44 | 9.15 | 11.75 | 7/8 | 15.25 | 13.53 | 13.37 | 15.16 | 4 | 6 | 17 |
| 10 | 300 | 12.22 | 2.44 | 11.20 | 14.00 | 7/8 | 17.25 | 15.58 | 15.62 | 17.98 | 6 | 8 | 26 |
| 12 | 300 | 14.32 | 2.44 | 13.30 | 16.25 | 7/8 | 19.50 | 12.68 | 17.88 | 20.86 | 8 | 8 | 36 |
| 14 | 300 | 16.40 | 2.83 | 15.44 | 18.75 | 7/8 | 21.25 | 19.82 | 20.75 | 25.08 | 10 | 10 | 49 |
| 16 | 300 | 18.50 | 2.83 | 17.54 | 21.00 | 7/8 | 23.34 | 21.92 | 23.00 | 27.12 | 12 | 12 | 56 |
| 18 | 200 | 20.60 | 2.91 | 19.64 | 23.25 | 7/8 | 26.40 | 24.84 | 25.25 | 29.64 | 12 | 12 | 61 |
| 20 | 200 | 22.70 | 2.67 | 21.74 | 25.50 | 7/8 | 28.56 | 27.00 | 27.50 | 31.66 | 14 | 14 | 75 |
| 24 | 200 | 26.90 | 3.50 | 25.94 | 30.00 | 7/8 | 33.86 | 32.30 | 31.54 | 36.14 | 16 | 16 | 134 |
| 30 | 200 | 33.29 | 3.49 | 32.17 | 36.88 | 1 1/8 | 40.12 | 38.56 | 39.12 | 44.18 | 20 | 20 | 201 |
| 36 | 200 | 39.59 | 3.49 | 38.47 | 43.75 | 1 1/8 | 46.42 | 44.86 | 46.00 | 51.29 | 24 | 24 | 240 |
| 42 | 175 | 45.79 | 5.15 | 44.75 | 50.62 | 1 3/8 | 54.86 | 53.32 | 53.12 | 58.82 | 28 | 28 | 581 |
| 48 | 175 | 52.09 | 5.15 | 51.05 | 57.50 | 1 3/8 | 61.16 | 59.62 | 60.00 | 65.12 | 32 | 32 | 664 |

*All dimensions in inches except where indicated.

Notes:

- Sizes 42" & 48" require extra long 1 1/4" x 8 1/2" T-bolts.
- For applications with vertical offsets please contact Star Pipe Products for technical assistance.
- Pressure ratings shall not exceed the maximum pressure rating of the ductile iron pipe it is installed on.