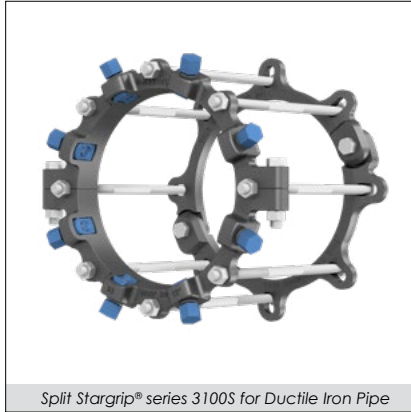




# Split Stargrip® series 3100S

Split Wedge Action Restraint  
for Ductile Iron Pipe - New or Existing Installations



Split Stargrip® series 3100S for Ductile Iron Pipe

### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Includes Stargrip® series 3000S, Split Back-Up Ring and high strength low alloy steel double ended rods and nuts which meet the requirements of ANSI/AWWA C111/A21.11
- Minimum Safety Factor 2:1
- For use on all classes of Ductile Iron Pipe
- For new and existing pipe to pipe installations
- Pipe OD must be gauged overall to assure restraint will fit properly.
- Please refer to chart for maximum bell outside diameter for rod clearance.

### MATERIAL SPECIFICATIONS:

- Stargrip® and Split Back-Up Ring 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: Restraint rods and nuts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11

Optional: Restraint rods alloy SS 304 per ASTM F593 CW; Restraint Nuts alloy SS 304 per ASTM F594 CW

Optional: Restraint rods alloy SS 316 per ASTM F593 CW; Restraint Nuts alloy SS 316 per ASTM A194 Grade 8M

Optional: Restraint rods and nuts Fluoropolymer Star-Blue coated high strength low alloy steel manufactured in accordance with ANSI/AWWA C111/A21.11



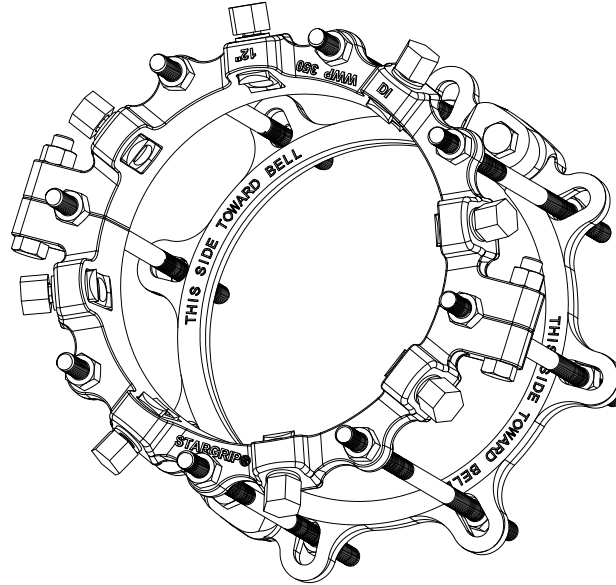
STAR® PIPE PRODUCTS



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for Ductile Iron Pipe - New or Existing Installations

## TECHNICAL INFORMATION



SPLIT STARGRIP® 3100S SPECIFICATIONS\*

Please check sizes:

| NOM. SIZE | MAX PRESSURE RATING (PSI) | RODS (QTY) | ROD DIA x LENGTH | MAX. BELL OD | APPROX WT. (LBS) |
|-----------|---------------------------|------------|------------------|--------------|------------------|
| 3         | 350                       | 4          | 5/8 x 17         | 5.57         | 22               |
| 4         | 350                       | 4          | 3/4 x 17         | 6.75         | 26               |
| 6         | 350                       | 6          | 3/4 x 17         | 9.27         | 36               |
| 8         | 350                       | 6          | 3/4 x 17         | 11.63        | 42               |
| 10        | 300                       | 8          | 3/4 x 24         | 13.37        | 64               |
| 12        | 300                       | 8          | 3/4 x 24         | 16.60        | 78               |
| 14        | 300                       | 8          | 3/4 x 24         | 19.17        | 122              |
| 16        | 300                       | 10         | 3/4 x 24         | 21.41        | 142              |
| 18        | 200                       | 10         | 3/4 x 24         | 23.64        | 154              |
| 20        | 200                       | 12         | 3/4 x 24         | 26.05        | 186              |
| 24        | 200                       | 14         | 3/4 x 24         | 30.78        | 288              |
| 30        | 200                       | 18         | 1 x 24           | 37.39        | 485              |
| 36        | 200                       | 22         | 1 x 24           | 44.42        | 600              |
| 42        | 175                       | 24         | 1 1/4 x 30       | 49.37        | 1176             |
| 48        | 175                       | 28         | 1 1/4 x 30       | 56.25        | 1366             |

\*All dimensions in inches except where indicated.

**Notes:**

- 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.

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