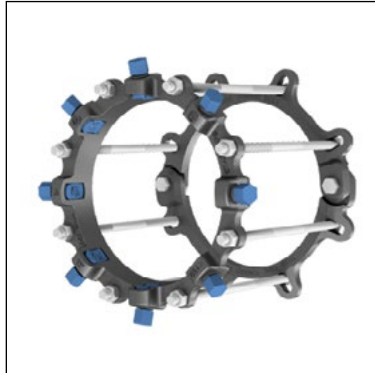




Stargrip® series 3100P

Wedge Action Restraint
for Ductile Iron Pipe Bells - New Installations



Stargrip® series 3100P for Ductile Iron Pipe

SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



FEATURES & ADVANTAGES

- Includes Stargrip® and Split Back-Up Ring (for sizes 3"-36") or two Stargrips® (for sizes 42"-48") 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 pipe-to-pipe installations only
- 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:

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

COUNTRY OF ORIGIN OPTION (Please check one):

- Import
- Domestic - AIS Compliant (Available in sizes 3" to 12", 16" & 24")

STAR® PIPE PRODUCTS

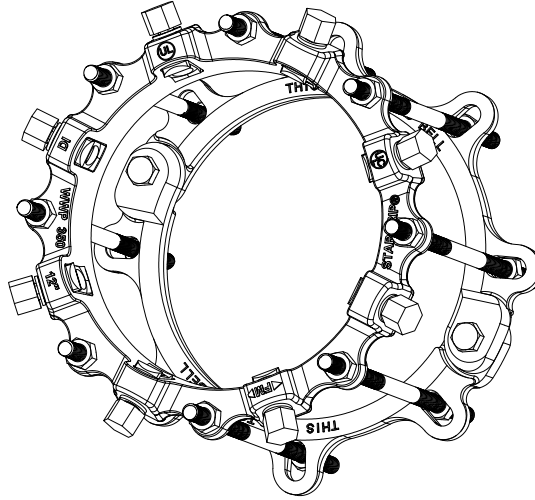




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TECHNICAL INFORMATION



Please check sizes:

STARGRIP® 3100P SPECIFICATIONS*					
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	19
4	350	4	3/4 x 17	6.75	23
6	350	6	3/4 x 17	9.27	35
8	350	6	3/4 x 17	11.63	42
10	350	8	3/4 x 24	13.37	60
12	350	8	3/4 x 24	16.60	76
14	350	8	3/4 x 24	19.17	121
16	350	10	3/4 x 24	21.41	142
18	250	10	3/4 x 24	23.64	165
20	250	12	3/4 x 24	26.05	192
24	250	14	3/4 x 24	30.78	276
30	250	18	1 x 24	37.39	499
36	250	22	1 x 24	44.42	495
**42	250	28	1 1/4 x 30	49.37	996
**48	250	32	1 1/4 x 30	56.25	1175

*All dimensions in inches except where indicated.

** For sizes 42" and 48" two Stargrips® are provided: one on the spigot and one behind the bell.

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.

STAR® PIPE PRODUCTS