



# 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
- Stargrip® may be used on steel pipe of any size. For steel pipe 12" and under a transition gasket is required if the diameter regimen is IPS. For steel pipe 14" and larger, the pipe's outside diameter must be the same as ductile iron pipe (CIOD diameter regimen). For sizes 3" – 8", minimum SCH40 steel pipe wall thickness is required. For sizes 10" through 16" the minimum wall thickness must be equal to or greater than PC350 ductile iron pipe. For sizes 18" and above, the minimum wall thickness of the steel pipe must be equal to or greater than PC 250 ductile iron 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

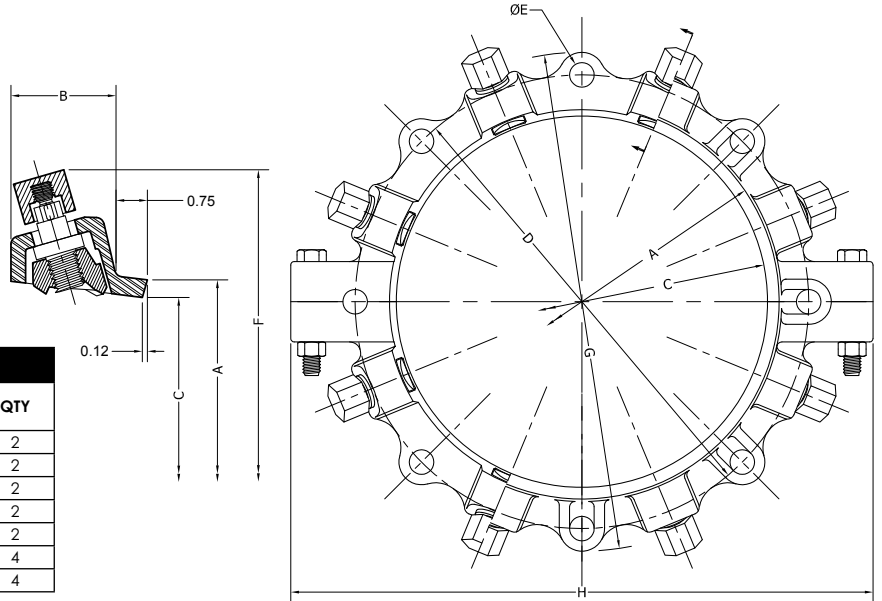


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TECHNICAL INFORMATION

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	350	12.22	2.44	11.20	14.00	7/8	17.25	15.58	15.62	17.98	6	8	26
12	350	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.