



# StarFlange™ series 3200

Restrained Adapter Flange Coupling  
for Ductile Iron Pipe



StarFlange™ Series 3200 for Ductile Iron Pipe

### SUBMITTAL INFORMATION

PROJECT NAME:

ENGINEER:

CONTRACTOR:

SPEC. SECTION:



### FEATURES & ADVANTAGES

- Provides flexibility to accommodate pipe misalignment
- No special tools required for installation
- Fully restrained to pressure rating of pipe with a 2:1 safety factor
- Pipe end does not need to be square cut.
- Flange meets ANSI Class 125/150 and ANSI/AWWA C 115/A21.15 drill pattern.
- MJ gasket and O-ring flange gasket are made from styrene butadiene rubber (SBR) per ANSI/AWWA C 111/A-21.11.
- Includes Stargrip®, Flange Adapter, MJ Gasket, O-Ring gasket and low alloy steel T-bolts
- StarFlange™ size 3"-12" are listed with Underwriters Laboratories Inc. and approved by Factory Mutual Research (FM).
- 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
- O-Ring: Styrene butadiene rubber (SBR) per ANSI/AWWA C 111/A-21.11
- Adapter: Ductile Iron per ASTM A536, Grade 65-45-12
  - ◆ Adapter Finish: Fusion Bond Epoxy (FBE) coating

### HARDWARE OPTIONS (Please check one):

Standard: T-bolts are high strength low alloy steel manufactured in accordance with ANSI/AWWA C 111/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 C 111/A21.11-00



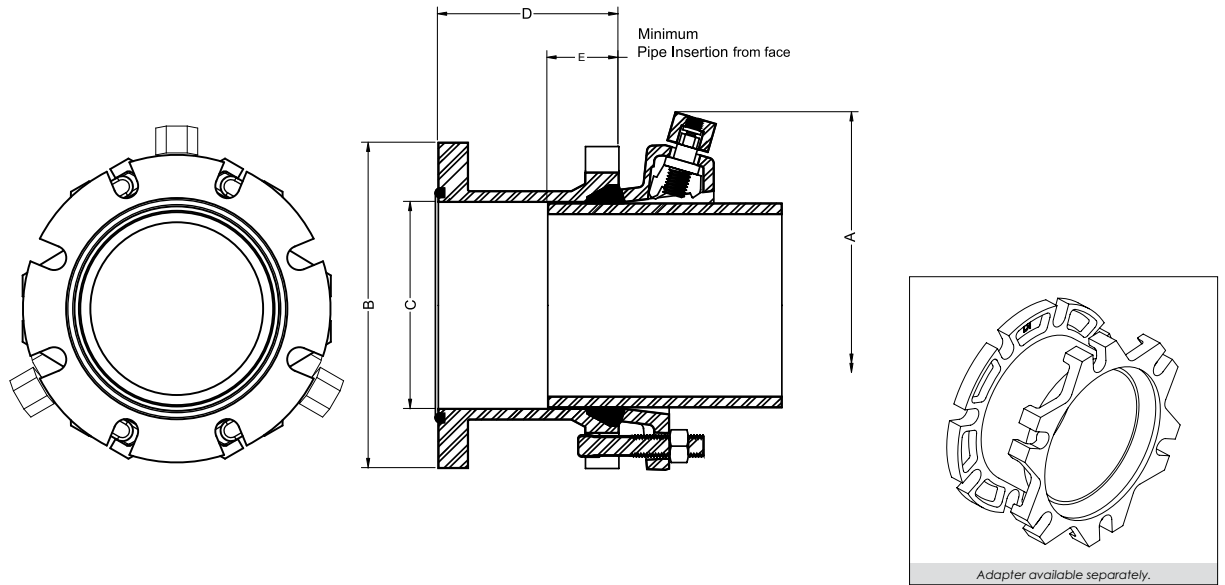
STAR® PIPE PRODUCTS



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**TECHNICAL INFORMATION**



STAR® PIPE PRODUCTS

Please check sizes:

STARFLANGE™ 3200 SPECIFICATIONS*									
NOM. SIZE	MAX PRESSURE RATING (PSI)	A	A W/NUTS TWISTED OFF	B	C	D	E	'MAX. JOINT DEFLECTION°	APPROX WT. (LBS)
3	350	9.85	8.45	7.50	4.06	3.88	2.13	5°	19
4	350	11.06	9.28	9.00	4.90	4.35	2.13	5°	27
6	350	13.06	11.38	11.00	7.00	5.25	2.50	5°	40
8	350	15.25	13.53	13.50	9.15	5.25	2.50	5°	52
10	350	17.25	15.58	16.00	11.20	5.62	2.50	3°	71
12	350	19.50	12.68	19.00	13.30	5.69	2.50	3°	98
14	350	21.25	19.82	21.00	15.44	6.67	3.00	2°	133
16	350	23.34	21.92	23.50	17.54	6.79	3.00	2°	162
18	250	26.40	24.84	25.00	19.64	7.40	3.00	1.5°	196
20	250	28.56	27.00	27.50	21.74	7.41	3.00	1.5°	229
24	250	33.86	32.30	32.00	25.94	7.90	3.00	1°	328
30	250	40.12	38.56	38.75	32.17	8.50	3.00	1°	508
36	250	46.42	44.86	46.00	38.47	9.00	3.00	1°	659

\*All dimensions in inches except where indicated.  
l - Deflection attained at minimum pipe insertion.

**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.