

431 RazorLock Wide Range Restraint Coupling

Lock in a continuous 360° bite

Description: The RazorLock Wide Range Restraint Coupling is engineered to protect pipe integrity and effectively distribute the thrust load over a wide area.

Application: Joining, repairing, restraining

Key features:

- One-piece grip ring with precision-machined and case hardened teeth engages around the circumference of the pipe
- Molded gasket with integral corrugated stainless steel armor
- Flex Point Technology
- Works on multiple pipe types
- UL® Certified to NSF/ANSI/CAN 61/372
- Gripping technology based on 35+ years of experience in developing restraint couplings for the natural gas industry

Working pressure: 250 psi

Test pressure: 375 psi

Type of Pipe: Carbon Steel, Cast Iron, Ductile Iron, PVC (SDR 26 min. thickness), PVC0 (CIOD PC235 min. thickness), MDPE, & HDPE (stiffeners required for all PE, DR 32.5 min. thickness)

Sizes (in inches): 4", 6", and 8"

Maximum 3" gap between pipe ends

Maximum Angular Deflection: 2° per end



Materials specifications (subject to change):

Sleeve:

Ductile Iron per ASTM A536 Grade 65-45-12

Flange:

Ductile Iron per ASTM A536 Grade 65-45-12

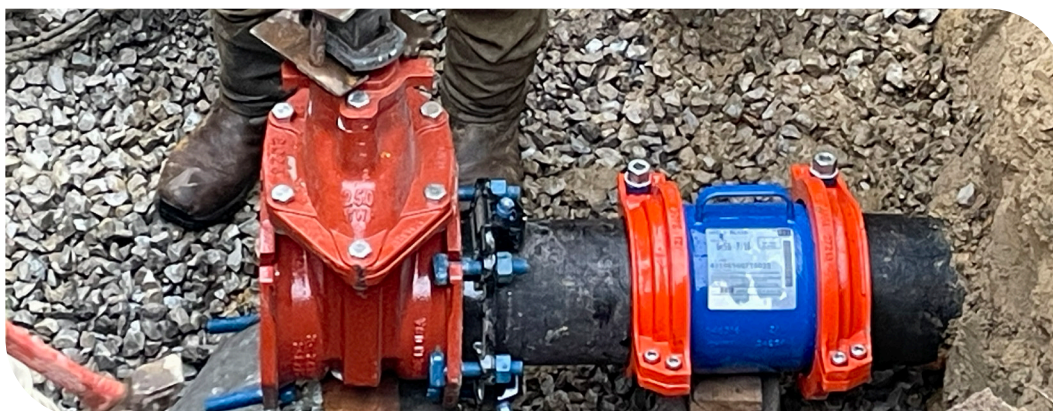
Carbon Steel per ASTM A27/A27M Grade 65-40

Gasket: Buna-N per ASTM D2000

Armor: Stainless Steel per ASTM A240

Grip Ring: Carbon Steel per ASTM 36 or ASTM A513

Hardware: Stainless Steel per ASTM A193 & A194 w/anti-galling coatings



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Nominal Size Inches	Catalog Number	Overall Range (Inches)	Optimum Stab (Inches)	Minimum Stab (Inches)	Bolt size	Torque (ft-lb)
4	431-04440506-031	4.44 – 5.06	4.81	3.81	(2) 5/8"	All pipes: 100
6	431-06560716-031	6.56 – 7.16	4.88	3.88	(2) 5/8"	All pipes: 130
8	431-08530939-031	8.53 – 9.39	5.00	4.00	(2) 3/4"	CIOD PVC & PVCO: 100 All other pipes: 150



RazorLock’s Dual Drive Bolts

The 431 RazorLock Wide Range Restraint Coupling dual-drive bolts have both an external hex head and an internal 1/2” square-drive recess in the head. That internal recess is itself a socket-style drive, so instead of needing a hex socket over the head, you can drive it directly with a 1/2” square-drive impact wrench or ratchet. It still accepts a standard hex socket, too. Made of stainless steel with a lubricating washer and an anti-galling coating, the bolt is also designed to last longer and transfer torque more efficiently.



For more information on the 431 RazorLock Wide Range Restraint Coupling scan the QR code, contact your Xylem's Smith-Blair products representative, or visit xylem.com/couplings.