

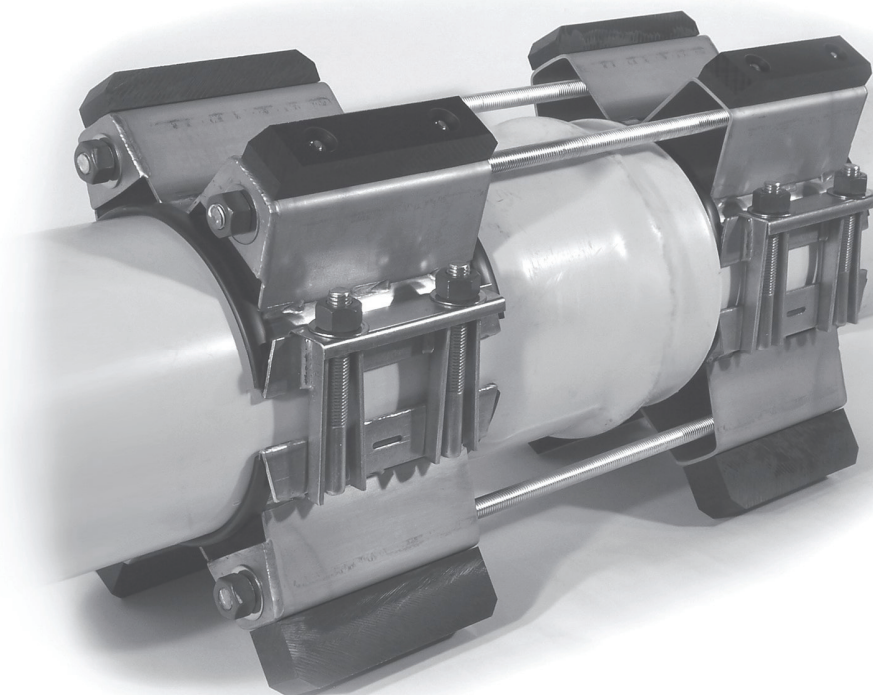


"The Standard
of Excellence in
the Industry"

JOINT RESTRAINT CASING SPACERS

Style CCS-JR

Stainless Steel Joint Restraint Casing Spacer



Features & Benefits

- Restrains Push Joints in *All Pipe Material Types
- Ideal for Gravity Line Future Withdrawal
- Resists Against "Over-Belling"
- Simple to Use – Trouble-free Installation
- Fewer Components**
- Corrosion Resistant Stainless-Steel Materials
- All Welds and Metal Surfaces are Chemically Passivated
- A Casing Spacer & Joint Restraint - All in One

U.S. Patent # 7225837

*For Gravity lines larger than 36 inches nominal, or water lines larger than 12 inches nominal, please consult factory. For concrete carriers, contact factory.

**All-Thread Rods & Connecting Hardware To Be Provided by Distributor To Reduce Final Cost to End User

1213 BADGER STREET • YORKVILLE, ILLINOIS 60560
(630) 553-0840 • (800) 426-4301 • FAX (630) 553-0181
www.cascademfg.com



"THE STANDARD OF EXCELLENCE IN THE INDUSTRY"

JOINT RESTRAINT CASING SPACERS (Stainless Steel) - STYLE – CCS-JR

Casing spacer shall be made from T304 stainless steel of a minimum thickness of 14-gauge. Each spacer shall consist of 8-inch-wide bands (CCS08-JR) or 12-inch-wide bands (CCS12-JR) and shall be a two-piece design. The shells will have heavy-duty, TIG welded stud and receiver bars for connecting the top to the bottom. Studs shall be T304 and threaded as 5/8 UNC. The shell shall be lined with a 0.090" thick, ribbed PVC extrusion with a retaining section that overlaps the edges of the shell and prevents slippage. PVC liner shall have a hardness of 85-90 durometer. Bearing surfaces (runners) shall be ultra-high molecular weight polyethylene (UHMW) to provide the highest abrasion resistance and the lowest coefficient of friction (0.12) available with variable heights to meet desired position and a width of one-and-one-half inches. The runners shall be mechanically bolted to the spacer. Risers shall be MIG welded to the shell, where applicable, and shall be made of T304 stainless steel of a maximum 10 gauge with bolt heads welded to the inside of the risers for strength. Joint Restraint risers shall have a bolting plate welded to the face of the riser for the connecting hardware to be attached. The connecting hardware shall be placed through the restraining holes in the bolting plates. The spacers shall be placed on the pipes(s) with the bolting plates facing away from the joint, placing the spigot side of the Joint Restraint Casing Spacer no closer to the end than the "Home" line and the bell side of the Joint Restraint Casing Spacer at the edge of the bell. Bottom risers 6" and over in height shall be reinforced. All reinforcing plates shall be 10 ga. T304 stainless steel and shall be MIG welded to mating parts. Joint Restraint Casing Spacers shall be configured such that the height of the risers and runners are to position the carrier pipe in the casing pipe with a top clearance of three-fourths inch minimum with slightly more space allowed in larger applications. Top clearance over the Runners shall be designed to allow for safe insertion into the Casing while providing resistance against excessive flotation. **All weldments shall be fully chemically passivated in accordance with ASTM A380.** Due to the numerous application possibilities, consult factory for spacing requirements. Casing spacers shall be Model CCS-JR as manufactured by Cascade Waterworks Mfg. Co. of Yorkville, IL.



CASCADE WATERWORKS MANUFACTURING COMPANY

1213 Badger Street • Yorkville, IL 60560 • (630) 553-0840 • (800) 426-4301 • FAX (630) 553-0181
www.cascademfg.com