WATER & SEWER
CORROSIVE RESISTANT PRODUCTS

1/16" THK MIN. TYP.
14 Ga.(.07) TYP.
15/16" Ca.(.120) TYP.
4 Ga. (.07) TYP.

1/8" MIN.
360° SEAL

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

CASING SPACERS

**CCS – Stainless Steel**
For placement of water or sewer pipes in casing where corrosion is a factor
*Type of Pipe:* Steel, Cast Iron, Asbestos Cement, Plastic, HDPE
*Pipe Sizes:* 4” – 48” (other sizes available)

**CCS-ER – Stainless Steel**
For placement of large diameter pipe in casing where O.D. tolerances are a factor
*Type of Pipe:* Steel, Concrete, Cast Iron
*Pipe Sizes:* 36” – 120”

**CCS-G – Galvanized Steel**
For placement of water or sewer pipes in casing where annulus is to filled
*Type of Pipe:* Steel, Cast Iron, Asbestos Cement, Plastic, HDPE
*Pipe Sizes:* 4” – 48”

**PHOENIX GOLD SERIES – Plastic**
For placement of small diameter pipe in casing
*Type of Pipe:* Steel, Asbestos Cement, PVC
*Pipe Sizes:* 3” – 16”

**CCES – Rubber End Seal**
To provide a barrier seal between the carrier pipe and casing to insure foreign objects are kept out of annular space
*Type of Pipe:* All Types
*Pipe Sizes:* All Sizes

**MULTIPLE**
To provide economical system of placing multiple carrier pipes in one casing
*Type of Pipe:* All Types
*Pipe Sizes:* All Sizes of Many Combinations

COUPLINGS

**CRC RAPIDFIT Coupling – Ductile Iron**
Couple pipe of same or different diameters
*Type of Pipe:* Steel, Cast Iron, Asbestos Cement, Plastic
*Pipe Sizes:* 2” – 12”

**CRFA RAPIDFIT Flange Adapter – Ductile Iron**
For testing, capping of pipelines, or coupling pipes to flanges
*Type of Pipe:* Steel, Cast Iron, Asbestos Cement, Plastic
*Pipe Sizes:* 2” – 12”
REPAIR CLAMPS

CR1 - Stainless Steel Repair Clamp, Normal Range
Repair of cracks and holes – Range .40”
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 2” – 14”

CR2 - Stainless Steel Repair Clamp, Double Range
Repair of splits and holes – Range .80”
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 4” – 20”

CR2-SR - Stainless Steel Repair Clamp, Super Range
Repair of splits and holes – Range 1.20”
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 8” – 20”

CR3 - Stainless Steel Repair Clamp, Extended Range
Repair of splits and holes – Range 1.20”
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 10” – Larger

CDR1 - Stainless Steel Repair Clamp, Ductile Iron Lugs
Repair of splits and holes – Range .40”. Stainless Steel bolts available
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 4” – 20”

CDR2 - Stainless Steel Repair Clamp, Ductile Iron Lugs
Repair of splits and holes – Range .80”. Stainless Steel bolts available
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 4” – 20”

CDR3 - Stainless Steel Repair Clamp, Ductile Iron Lugs
Repair of splits and holes – Range 1.20”. Stainless Steel bolts available
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 10” – Larger

CRT1, CRT2, CRT3; CDRT1, CDRT2, CDRT3 - Tapped Stainless Steel Repair Clamp
Outlet sizes 3/4” - 2”, CC or IPS; other sizes available, consult factory
**Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
**Pipe Sizes:** 2” – Larger

CCLC - Stainless Steel Collar Leak Clamp
Repair of leaking PVC Solvent weld pipe
**Type of Pipe:** Plastic
**Pipe Sizes:** 2” – 8”

CSST - Stainless Steel Transition Clamp
Transition coupling for sewer pipe of various O.D.
**Type of Pipe:** Clay, Plastic Asbestos Cement, Ductile and Other
**Pipe Sizes:** 4” – Larger

CFC - Stainless Steel Patch Clamp
Repair pinholes or punctures in pipe
**Type of Pipe:** Steel, Galvanized, Plastic and Other
**Pipe Sizes:** 3/8” – 2 1/2”
CS12 - Single Band Saddle, 5" Width
MAXI-STRETCH – 3/4” - 2” CC or IPS tap all stainless steel saddle, 1.3” range, 2 bolts
Type of Pipe: Plastic, Steel, HDPE and Other
Pipe Sizes: 4” – 12”

CS22 - Wide Band Saddle, 8” Width
MAXI-STRETCH – 3/4” - 2” CC or IPS tap all stainless steel saddle, 1.3” range, 4 bolts
Type of Pipe: Plastic, Steel, HDPE and Other
Pipe Sizes: 4” – 24”

CSC1 - Single Bolt Saddle Clamp
3/4” - 1” CC or IPS tap all stainless steel saddle clamp, one piece installation, 5” wide
Type of Pipe: Plastic, Steel, HDPE and Other
Pipe Sizes: 2” – 8”

CSC2 - Double Bolt Saddle Clamp
3/4” - 2” CC or IPS tap all stainless steel saddle clamp, one piece installation, 8” wide
Type of Pipe: Plastic, Steel, HDPE and Other
Pipe Sizes: 3” – 12”

CNS1 - Epoxy Coated with Stainless Steel Strap
1/2” - 2” CC or IPS tap service saddle ductile body
Type of Pipe: Ductile, Steel, Plastic, Asbestos Cement and Other
Pipe Sizes: 2” – 12”

CNS2 - Epoxy Coated with Double Stainless Steel Straps
1/2” - 2” CC or IPS tap service saddle ductile body
Type of Pipe: Ductile, Steel, Plastic, Asbestos Cement and Other
Pipe Sizes: 2” – 12”

CDS-LD - Epoxy with Stainless Steel Straps
3/4” - 2” CC or IPS tap service saddle ductile body
Type of Pipe: Ductile, Steel, Plastic, and Other
Pipe Sizes: 14” – 30”

CDS1 - Epoxy Coated with Single U-Bolt
1/2” - 2” CC or IPS tap service saddle ductile body
Type of Pipe: Ductile, Steel, Asbestos Cement
Pipe Sizes: 4” – 12”

CDS2 - Epoxy Coated with Two U-Bolts
1/2” - 2” CC or IPS tap service saddle ductile body
Type of Pipe: Ductile, Steel, Asbestos Cement
Pipe Sizes: 4” – 12”

CFS - Fabricated with Stainless Steel Strap
3” - 4” tap service saddle. Epoxy coating and special gaskets available
Type of Pipe: Ductile, Steel, Plastic, and Other
Pipe Sizes: 6” – 30”
# TAPPING SLEEVES

## CST-EX – Stainless Steel Tapping Sleeve with Triangular Bar
Make branch outlet using full circumferential seal and patented double O-ring branch seal

- **Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
- **Pipe Sizes:** 3” – Larger
  - 175 – 225 PSI

## CST-SL – Stainless Steel Tapping Sleeve with Side Lifter Bar*
Make branch outlet using full circumferential seal and patented double O-ring branch seal

- **Type of Pipe:** Steel, Cast Iron, Asbestos Cement, Plastic and Other
- **Pipe Sizes:** 3” – 24”
  - 175 – 200 PSI

*For special orientation of stud direction, consult factory

## CFTSS – Fabricated Heavy Duty Stainless Steel for High Pressure
Make branch outlet for high pressure application and heavy duty applications; consult factory for application and pricing

- **Type of Pipe:** Steel, Cast Iron
- **Pipe Sizes:** 8” – Larger, High Pressure

## CFT – Fabricated Steel Tapping Sleeve with Triangular Side Bars; Epoxy Coated
Make branch outlet from main supply line

- **Type of Pipe:** Steel, Cast Iron
- **Pipe Sizes:** 3” – Larger

## CFT-LP – Fabricated Steel Tapping Sleeve with Triangular Side Bar; Epoxy Coated
Make branch outlet from main supply line

- **Type of Pipe:** Plastic, Polyethylene, Asbestos Cement
- **Pipe Sizes:** 3” – 12”

## CFT-WO – Fabricated Steel Tapping Sleeve for Weld on Outlet
Weld a branch outlet onto steel main supply line

- **Type of Pipe:** Steel
- **Pipe Sizes:** 4” – Larger

## CFT-TO – Fabricated Steel Tapping Sleeve with Threaded Outlet
For taps on larger pipe, thin wall requiring extra reinforcement

- **Type of Pipe:** Steel, Cast Iron, Ductile, Plastic, Asbestos Cement, Reinforced Concrete
- **Pipe Sizes:** 10” – 54”

## CTT, CTTL – Stainless Steel Tapping Sleeve for Small Diameter Pipe
For smaller diameter size on size and increasing tap connections

- **Type of Pipe:** Steel, Copper, Plastic
- **Pipe Sizes:** 2” – 4”

### CASCADE TAPPING SLEEVE BENEFITS
- Branch I.D. 0.5” Larger Than Nominal Size
- Accepts Full Size Shell Cutter
- Full Hoop Support and Seal
- All Surfaces Fully Passivated
- All Sleeves Provided with Test Outlet
- All Sleeves with Serial Number

### TEN YEAR WARRANTY

- **Easy to Install** – lighter with fewer parts than mechanical joint sleeves
- **Throat Gasket** – double o-ring with hydraulic lip and stainless steel ring insert bonded to prevent radial expansion under pressure (Patent #6,173,967B1)
- **Mat Gasket** – completes full hoop seal on main pipe

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*CST-EX and CST-SL*
SEWER PRODUCTS

**CSST – All Stainless Steel**
Transition coupling, used to couple sewer pipe of differing O.D.
*Type of Pipe:* Clay, PVC, Asbestos Cement
*Pipe Sizes:* All Sizes

**CRC RAPIDFIT Coupling – Ductile Iron**
Couple pipe of same or different diameters
*Type of Pipe:* Steel, Cast Iron, Asbestos Cement, Plastic
*Pipe Sizes:* 2” – 12”

**CTT, CTTL – Stainless Steel Force Main Tapping Sleeve**
To tap new or existing sewer force mains
*Type of Pipe:* Plastic, Steel, HDPE
*Pipe Sizes:* 2” – 4”

SPECIALTY PRODUCTS

**CTSM – All Stainless Steel Surge Tank, Flanged or MJ**
Prevent line breakage by absorbing pipeline surges
*Type of Pipe:* Steel, Cast Iron, Ductile, Asbestos Cement, Plastic and Other
*Pipe Sizes:* All Sizes

**CRBJ – All Stainless Steel Bell Joint Repair Sleeve**
For repair of broken bells while under line pressure
*Type of Pipe:* Ductile Iron, Cast Iron, Plastic, Asbestos Cement
*Pipe Sizes:* 3” – 60”
When ordering cascade products for use on HDPE applications, please designate as these products require special spring grade of washers to compensate for pipe contractions during pressure and temperature changes.
**IRRIGATION PRODUCTS**

**CR1, CR2, CR3 – Stainless Steel Repair Clamp**
Full circumferential repair of splits and holes
- **Type of Pipe:** All Types
- **Pipe Sizes:** 2" – 48"

**CCLC – Stainless Steel Collar Leak Clamp**
Repair of leaking PVC Solvent weld pipe
- **Type of Pipe:** Plastic
- **Pipe Sizes:** 2" – 8"

**CNS1, CNS2 – Single or Double Strap Stainless Steel**
Outlet sizes 3/4" - 3” Epoxy Coated CC or IPS
- **Type of Pipe:** All Types
- **Pipe Sizes:** 2" – 12"

**CS22 – Stainless Steel Service Saddle**
MAXI-STRETCH – 3/4" - 2" CC or IPS tap service saddle ductile body epoxy coated
- **Type of Pipe:** Ductile, Steel, Plastic and Other
- **Pipe Sizes:** 4" – 24"

**CDS-LD – Painted with Stainless Steel Straps**
3/4" - 2" CC or IPS tap service saddle ductile body epoxy coated
- **Type of Pipe:** Ductile, Steel, Plastic and Other
- **Pipe Sizes:** 14" – 30"

**CFS – Fabricated with Stainless**
3" - 4" tap service saddle epoxy coating and special gaskets available
- **Type of Pipe:** Ductile, Steel, Plastic and Other
- **Pipe Sizes:** 5" – 30"

**RAPIDFIT – Ductile Iron**
Couple pipe of same diameter or different diameters
- **Type of Pipe:** All Types
- **Pipe Sizes:** 2" – 12"

**CTSM – All Stainless Steel Surge Tank, Flanged or MJ**
Prevent line breakage by absorbing pipeline surges
- **Type of Pipe:** Steel, Cast Iron, Ductile, Asbestos Cement, Plastic and Other
- **Pipe Sizes:** All Sizes