

# SuperCase™ CSC-XP

## Advanced Joint Casing System for Pre-Insulated Pipelines

CSC-XP, the latest generation of Canusa's SuperCase technology, has been engineered based on Canusa's Hybrid-PEX™ technology, which combines the advantages of cross-linked and uncross-linked polyethylene in a single product. The revolutionary design of this product results in the most versatile pre-insulated pipe joint protection system on the market. The patented CSC-XP Casing can be installed with adhesive sealing and /or using electro-fusion welding with Canusa-CPS' automated IntelliFUSE™ system.

### HybridPEX™ Technology\*

- Cross-linked polyethylene outer layer **maintains hoop stress** on the pipe over the design life and **resists premature recovery** in hot climates
- Uncross-linked polyethylene inner layer of the casing allows for **effective welding (IntelliFUSE™)\*** of the material to the mainline PE jacket pipe
- Advanced grade of high density bimodal polyethylene offers **enhanced resistance to abrasion, impact, penetration and cracking**, especially at low temperatures

### Proven and Reliable Joint Protection

- CSC-XP system far exceeds the stringent requirements of EN 489 Standard and allows for **100% inspection** through **pressure testing**
- Structural integrity of the CSC-XP Casing system results in **robust and reliable joint protection** with **class leading resistance to soil stress**, moisture ingress and temperature cycling effects

### Engineered for Maximum Efficiency

- Innovative CSC-XP design offers **simple and forgiving installation**, thus reducing cycle time and installed cost of the joint
- Combined with Canusa-CPS' IntelliFUSE™\*, the system offers **industry leading installation speed** with automated quality control and traceability features

\*Patent Pending



### Applications



Pre-Insulated Pipes



Foam-In-Place



Pre-Foamed Joints



IntelliFUSE™



# CSC-XP Installation Flexibility



## 1. CSC-XP Application Methods:

- High Shear and Peel Strength Adhesive
- Electro-fusion with metal mesh bands

## 2. HybridPEX™ Technology

- Maintains hoop stress
- Resists premature recovery in hot climates
- Fast installation times
- Enhanced resistance to abrasion, impact, penetration and crack resistance
- Allows for adhesive and fusion based application method

## Other Key Advantages / Options

### IntelliFUSE™ System



- Portable, easy to use system
- Automation reduces human error
- Built in quality control
- Fast cycle time

### Air Pressure Testable



- Non-destructive, on-site quality control measure
- Verifies correctness of installation
- Allows for 100% inspection

### Fast & Reliable Application



- Flexible application methods
- Robust, reliable and repeatable
- Unmatched speed of installation
- Reduced installed cost

# System Components and Sizing Guidelines

CSC-XP System: Ordering Information and Standard Dimensions										
Pipe Ø (mm)	CSC-XP Casing					Accessory Materials (Kit)				
	Ordering Info	Diameter (Supplied) Ø (mm)	Diameter (Recovered) Ø (mm)	Thickness (Supplied) (mm)	Thickness <sup>1</sup> (Recovered) (mm)	Length <sup>2</sup> (Supplied) (mm)	Ordering Info (Kit)	Adhesive Strips Length (mm)	Metal Strips Length (mm)	Spacers Qty & Size (L, XL)
90	CSC-XP 90-750 BK	100	80	2.5	3.4	750	CSC-XP Kit 90	2 x 315	-	-
110	CSC-XP 110-750 BK	130	99	2.5	3.4	750	CSC-XP Kit 110	2 x 380	-	-
125	CSC-XP 125-750 BK	140	110	2.5	3.4	750	CSC-XP Kit 125	2 x 430	-	-
140	CSC-XP 140-750 BK	160	121	2.5	3.4	750	CSC-XP Kit 140	2 x 480	-	-
160	CSC-XP 160-750 BK	185	140	2.5	3.4	750	CSC-XP Kit 160	2 x 545	-	-
180	CSC-XP 180-750 BK	205	155	3.5	4.5	750	CSC-XP Kit 180	2 x 610	-	-
200	CSC-XP 200-750 BK	225	170	3.5	4.5	750	CSC-XP Kit 200	2 x 680	-	-
225	CSC-XP 225-750 BK	255	193	3.5	4.5	750	CSC-XP Kit 225	2 x 760	-	-
250	CSC-XP 250-750 BK	280	215	3.5	4.5	750	CSC-XP-F Kit 250	2 x 845	790	-
280	CSC-XP 280-750 BK	315	235	3.5	4.5	750	CSC-XP-F Kit 280	2 x 940	885	-
315	CSC-XP 315-750 BK	385	290	3.5	4.5	750	CSC-XP-F Kit 315	2 x 1060	1000	-
355	CSC-XP 355-750 BK	390	295	4.5	5.5	750	CSC-XP-F Kit 355	2 x 1185	1125	4 x L
400	CSC-XP 400-750 BK	445	330	4.5	5.5	750	CSC-XP-F Kit 400	2 x 1335	1265	4 x L
450	CSC-XP 450-750 BK	495	370	4.5	5.5	750	CSC-XP-F Kit 450	2 x 1500	1430	4 x L
500	CSC-XP 500-750 BK	555	410	4.5	5.5	750	CSC-XP-F Kit 500	2 x 1665	1585	4 x L
520	CSC-XP 520-750 BK	575	425	4.5	5.5	750	CSC-XP-F Kit 520	2 x 1730	1650	4 x L
560	CSC-XP 560-750 BK	615	455	4.5	5.5	750	CSC-XP-F Kit 560	2 x 1860	1770	4 x L
630	CSC-XP 630-750 BK	690	510	4.5	5.5	750	CSC-XP-F Kit 630	2 x 2090	2000	4 x L
670	CSC-XP 670-750 BK	735	540	4.5	5.5	750	CSC-XP-F Kit 670	2 x 2225	2125	4 x L
710	CSC-XP 710-750 BK	775	570	4.5	5.5	750	CSC-XP-F Kit 710	2 x 2355	2255	4 x L
800	CSC-XP 800-750 BK	875	645	5.5	6.5	750	-	-	2540	4 x XL
860	CSC-XP 860-750 BK	935	690	5.5	6.5	750	-	-	2730	4 x XL
900	CSC-XP 900-750 BK	980	720	5.5	6.5	750	-	-	2860	4 x XL
1000	CSC-XP 1000-750 BK	1090	800	5.5	6.5	750	-	-	3175	4 x XL
1100	CSC-XP 1100-750 BK	1195	875	5.5	6.5	750	-	-	3480	4 x XL
1200	CSC-XP 1200-750 BK	1300	950	5.5	6.5	750	-	-	3800	4 x XL
XXX	CSC-XP XXX-YYY BK	XXX - PE Size (mm)	YYY - Nominal Casing Length (mm)	YYY - 750	Special Orders					

<sup>1</sup> Recovered thickness represents thickness after full (free) recovery <sup>2</sup>Standard length shown, optional CSC-XP lengths are available.

# SuperCase™ CSC-XP


## Advanced Joint Casing System for Pre-Insulated Pipelines

Adhesive Properties	Test Method	Typical Values
Softening Point	ASTM E28	80°C
Lap Shear	EN 12068	90 N/cm <sup>2</sup>
Casing Properties	Test Method	Typical Values
Tensile Strength	ASTM D638	30 MPa
Elongation	ASTM D638	600
Hardness	ASTM 2240	60 Shore D
Abrasion Resistance	ASTM D1044	35 mg
System Properties	Test Method	Typical Values
Adhesion Strength @ 23°C*	EN 12068	75 N/cm
Water Absorption	ASTM D570	< 0.05 %
Low Temp. Flexibility	ASTM D2671	-30°C
Heat Aging @ 150°C, 14 days (Tensile Strength)	ISO R57	95%
Heat Aging @ 150°C, 14 days (Tensile Elongation)	ISO R57	95%
Soil Box & Pressure Vessel Test** (Adhesive Method)	EN 489: 2009	Pass
Soil Box & Pressure Vessel Test*** (IntelliFUSE™ Method)	EN 489	Pass-Weld Stress Crack Resistance

**EN 489 Sand Box Test**

Casing completely intact on both sides.

**Easily Exceeds EN 489 Requirements**

**IntelliFUSE™**

Please contact Canusa representative for more information.

The product information shown here is intended as a guide for standard products.

Consult your Canusa representative for specific projects or unique applications.



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**Canusa-CPS is registered  
to ISO 9001:2008**

Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the product data sheet when used in compliance with Canusa's written instructions. Since many installation factors are beyond our control, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection therewith. Canusa's liability is stated in the standard terms and conditions of sale. Canusa makes no other warranty either expressed or implied. All information contained in this data sheet is to be used as a guide and is subject to change without notice. This data sheet supersedes all previous data sheets on this product. E&OE

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Since 1967, Canusa-CPS has been a leading developer and manufacturer of specialty pipeline coatings for the sealing and corrosion protection of pipeline joints and other substrates. Canusa-CPS high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate many specific project applications.