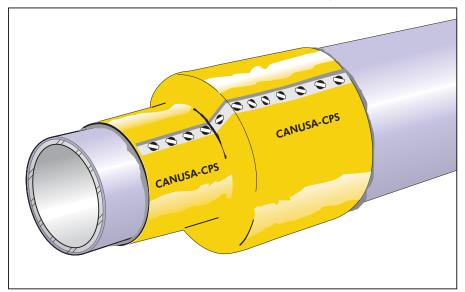
Canusa-CPS is a leading manufacturer of specialty pipeline coatings which, for over 30 years, have been used for sealing and corrosion protection of pipeline joints and other substrates. Canusa high performance products are manufactured to the highest quality standards and are available in a number of configurations to accommodate your specific project applications.

Product Description

The Canusa Casing Snap-Fit Sleeves (CSF/CSK) are high expansion heatshrinkable wrap-around sleeves specifically designed to provide a waterproof seal on pipeline casings operating at constant temperatures of up to 60°C (140°F). As part of an underground system they electrically isolate pipelines from metallic casings. As well, the CSF/CSK products can be used to prevent the corrosion of above ground flanges and mechanical The sleeve consists of an couplers. irradiation, crosslinked, heat-shrinkable polyolefin backing, coated with an aggressive adhesive that effectively bonds to commonly used pipeline coatings including polyethylene, epoxy, tapes and coal tar enamel. Materials used in these products provide high electrical resistivity, resistance to corrosive environments, low water absorption and low moisture permeability. This combination ensures a permanent seal that is resistant to pipe deflection, vibration, soil stress, corrosive gases, and thermodynamic effects resulting from the expansion and contraction of carrier and casing pipes, flanges and mechanical couplers.

Casing Snap-Fit Sleeves (CSF/CSK)



Features & Benefits

Rapid and Reliable Installation

The Canusa CSF/CSK sleeve has a onepiece construction that allows rapid and reliable field installation. The unique snapfit closure system allows for an accurate installation every time. The CSK kit contains a roll of filament tape and a polypropylene support skirting to provide smooth transition between the casing and the carrier pipe, eliminating the need to apply a filler mastic which is time consuming in the field.

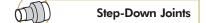
Long Term Sealing

Once installed, the Canusa CSF/CSK has excellent structural integrity. The system provides superior mechanical protection to the joint by maintaining a hoop-stress around the adhesive and creating a tough permanent bond. The CSF/CSK adhesive remains flexible after installation and provides an excellent seal against vibration, deflection and temperature cycling while protecting from moisture, corrosion and bacterial damage.

Applications







Configurations













Pipe Sizes



Temperature Range



Casing Snap-Fit Sleeve (CFS/CSK)

Product Selection Guide

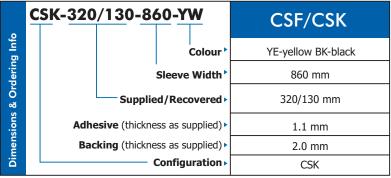
ions	Pipe DN Sizes	CSF/CSK Product	Supplied O.D. (mm)	Recovered O.D. (mm)	
ensio	300, 150	320/130-860-YW	320	130	
<u>≅</u> .	350, 175	370/150-860-YW	370	150	
<u>م</u>	425, 200	450/180-860-YW	450	180	
izes and	475, 225	500/200-860-YW	500	200	
	525, 250	550/220-860-YW	550	220	
S	575, 250	600/240-860-YW	600	240	
ilable	625, 275	650/260-860-YW	650	260	
i.	825, 350	850/340-860-YW	850	340	
Ava	925, 400	950/385-860-YW	950	385	
	1050, 450	1100/445-860-YW	1100	445	
	1200, 525	1250/510-860-YW	1250	510	

^{*} Other sizes can be ordered for non-standard applications. Please consult Canusa Product Management.

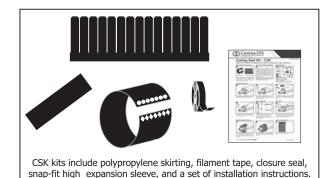
Typical Product Properties

Adhesive and Backing Properties	Property Adhesive Softening Point Adhesive Lap Shear Backing Tensile Strength Backing Elongation Backing Abrasion Resistance Backing Hardness	Test Method ASTM E28 ASTM D1002 ASTM D638 ASTM D638 ASTM D1044 ASTM D2240	Unit °C (°F) kPa (psi) Mpa (psi) % mg Shore D	Requirements 85 (185) min. 83 (12) 18 (2610) min. 500 min. 50 max. 40 min.	7ypical Value 90 (194) 90 (13) 20 (2900) 550 45 44	
Sleeve Properties	Dielectric Strength Volume Resistivity Water Absorption Peel Strength Low Temperature Flexibility	ASTM D149 ASTM D257 ASTM D570 ASTM D1000 ASTM D2671-C	Kv/mm ohm-cm % N/cm (pli) °C (°F)	20 min. >10 ¹⁴ min. 0.10 max. 25 (15) min. -14 (7) max.	27 >10 ¹⁷ 0.05 70 (40) -20°C (-5° F)	
		CSF / C	CSF / CSK		CSF II / CSK II	
Sleeve Dimensions	Average Recovery Adhesive (as supplied thickness) Backing (as supplied thickness) Sleeve (as supplied thickness) Sleeve (fully recovered thickness)	1.1 mm 0.9 mm 2.0mm	60% 1.1 mm (43 mils) 0.9 mm (36 mils) 2.0mm (80 mils) 3.2mm (126 mils)		65% 1.1 mm (43 mils) 0.8 mm (33 mils) 1.9mm (76 mils) 3.2mm (126 mils)	

How to Order:



The above represents standard ordering options. CSK Kits are available with sleeve widths of 860 mm (34") and 500 mm (20"). Consult your Canusa representative for any unique project requirements.



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Canusa warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the installation guide 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 installation guide is to be used as a guide and is subject to change without notice. This installation guide supersedes all previous installation guides on this product. E&OE

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Standard sleeve width is 860 mm (34") Sleeves can also be made 525 mm (21") wide