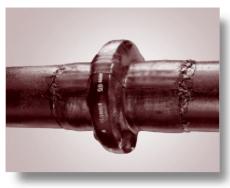
Raychem

FLANGESEAL (US)



Heat shrinkable corrosion protection sleeve specifically developed for installation on flanges or mechanical couplings that are already in place.

Product description

FCWS-F/Flangeseal (US) flange/pipe sealing and protection. Construction: Two-layer system: First layer: Visco-elastic sealant.

Second layer: Fiberglass reinforced, radiation cross-linked, polyethylene backing.

The FCWS-F/Flangeseal (US) - is a wrap-around heat-shrinkable sleeve, with a specially designed zipper closing system, allowing a fast and simple installation. The fiberglass-reinforced woven backing gives the FCWS-F/Flangeseal (US) a high mechanical resistance as well as a high recovery capacity. In addition to the sleeve, a cardboard sheet is supplied to keep the flange nuts & bolts clean, allowing easy re-entry and disassembly when necessary.

FCWS-F/Flangeseal (US) is installed using standard gas torches. The installation is carried out directly on the cleaned and prepared pipe surface and flange. After preheating, the corrugated cardboard sheet is wrapped around the flange to be sealed. The heat-shrinkable sleeve is positioned centrally over the flange and closed, using the zipper closure. When heated above 125°C (257°F), the sleeve shrinks tightly around the substrate. During recovery, the adhesive softens and flows to form a tight bond. The bond strength builds up during cool down and is fully retained after completion of the job.

Product features/benefits

- Backing with integrated fiberglass reinforcement Tough and long lasting. Provides a high recovery capacity.
- 65% shrinkage ratio conforms to high transitions Reduces inventory & logistics costs. Saves money.
- High mechanical resistance backing Resists abrasion, impact and penetration.
- No primer required No drying time and easy application.
- Specially formulated sealant Ensures a strong bond & tight seal to virtually any substrate. Maintains its elasticity and sealing characteristics over a wide temperature range.

- Sealing adhesive automatically flows and repairs minor mechanical damages
 "Self-healing effect." Saves money.
- Low preheat sensitivity & proven functionality Faster application, this saving time.
- Zipper closure system
 Simple & fast installation.
- No special equipment required Makes installation fast and easy. Keeps installation costs low.

Product selection guide

	FCWS-F/Flangeseal (US)
Max operating temperature	30°C (86°F)
Compatible line coatings	PE, PP, FBE, Tape, Coal tar, Asphalt, Plastics
Min preheat temperature	60°C (140°F)
Recommended pipe preparation	ST3

Product thickness

	FCWS-F/Flangeseal (US)
Backing (as supplied)	0.051 in. (1.3 mm)
Backing (fully free recovered)	0.128 in. (3.25 mm)
Adhesive (as supplied)	0.047 in. (1.2 mm)

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Property	Test method	Typical Value
Backing		
Bursting strength	DIN 30672	3500 N
Adhesive		
Softening point	ASTM E-28	92°C (198°F)
Shear strength	EN12068 @ 10 mm (0.4")/min.	8 N/cm ²
Sleeve		
Peel strength	EN12068 @ 10 mm (0.4")/min.	9 N/cm

Ordering information

FCWS-F/Flangeseal (US) type products are available as a kit containing:

- a sleeve (pre-cut sleeve with zipper closure)
- a corrugated cardboard sheet

Example: FCWS-F-DN65-300

DN65, DN80, DN100, DN125, DN150 (2.875", 3.500", 4.500", 5.563", 6.625") 300 mm (12")
300 mm (12")
Standard Ordering options
See application table
<mark>24</mark> " (600 mm)

Application Table

	Max.∅ flange (mm)	Min. pipe .∅ (mm)	FCWS-F/Flangeseal	
			(US only)	
141 (5.56")	73 (2.87")		FS5563-24	
168 (6.62")	89 (3.5")		FS6625-24	
185 (7.28")	76 <mark>(3</mark> ")	FCWS-F-DN65-300		
200 (7.87")	89 (3.5")	FCWS-F-DN80-300		
219 (8.625")	102 (4")		FS8625-24	
230 (9.06")	114 (4.5")	FCWS-F-DN100-300	FS10750-24	
250 (<mark>9.84</mark> ")	140 (5.5")	FCWS-F-DN125-300	FS10750-24	
285 (11.22")	168 (6.62")	FCWS-F-DN150-300	FS12750-24	
355 <mark>(14")</mark>	168 (6.62")	* see FCWS or TISW-F	FS14000-24	
			Bigger sizes available, Up to 48000	

Tyco Adhesives warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Tyco Adhesives' 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. Tyco Adhesives' liability is stated in the standard terms and conditions of sale. Tyco Adhesives makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.