

Aqua-Shield™ AQW-FPK

Flange Protection Kit with Snap-Fit Closure for Water Pipelines

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

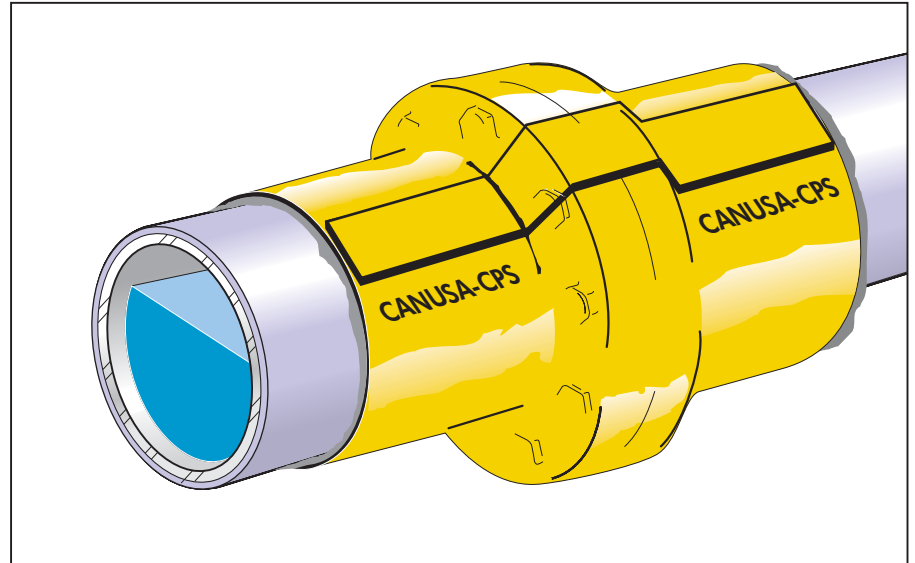
Aqua-Shield™ is a family of heat-shrinkable sleeve products that have been specifically designed for the corrosion protection of water pipelines. Various product configurations are available that utilize a crosslinked polyolefin backing, coated with a protective, heat-activated adhesive which effectively bonds to metallic substrates and common pipeline coatings.

The Canusa Aqua-Shield™ Flange Protection Kit (AQW-FPK) system consists of a one-piece heat-shrinkable wrap-around sleeve with a unique snap-fit closure and a secondary sealing closure. AQW-FPK is a high expansion/recovery product, specifically designed for sealing large flange joints on water pipelines.

Features & Benefits

Rapid and Reliable Installation

The Canusa AQW-FPK has a one-piece construction that allows rapid and reliable field installation. The unique snap-fit closure system also allows for an easy and accurate installation. The closure is easily installed over the snap-fit closure, ensuring a completely sealed system. The kit also contains support skirting that protects the sleeve from the edges and burrs on the flange and bolts.



Long Term Sealing

Once installed, the Canusa AQW-FPK has excellent structural integrity. The system provides superior mechanical protection to the joint as well as protection from moisture, corrosion and bacterial damage. The AQW-FPK adhesive remains flexible after installation and provides an excellent seal even during temperature cycling.

Assured Performance

All Aqua-Shield™ products meet or exceed the requirements of AWWA standard C216-00.

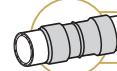
Applications



Water Pipelines



Large Diameter



Girth-Weld Joints



Fittings

Configurations



Aqua-Shield™ AQW



Aqua-Shield™ HS



Standard Shrink



Snap Fit

Pipe Sizes



All Sizes

Approvals



AWWA C216-00

The product selection chart shown here is intended as a guide for standard products. Consult your Canusa representative for specific projects or unique applications.

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Flange Protection Kit with Snap-Fit Closure for Water Pipelines

Product Selection Guide

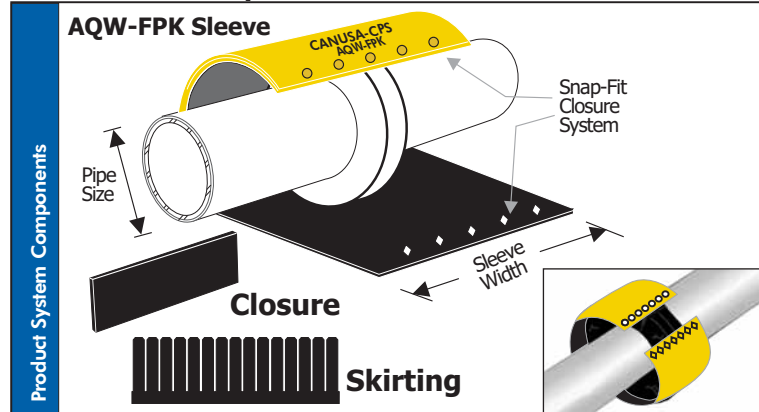
Available Sizes and Dimensions	Pipe Size ϕ mm (in)	Max. Flange ϕ mm (in)	AQW-FPK Sleeve	Size Range (mm) supplied/recovered	Pin to Pin Length mm (in)
	450 (18)	635 (25)	AQW-FPK 735/260-860 BK	735/260	2310 (90.9)
	510 (20)	700 (27½)	AQW-FPK 800/280-860 BK	800/280	2515 (99.0)
	610 (24)	810 (32)	AQW-FPK 915/325-860 BK	915/325	2875 (113.2)
	760 (30)	985 (38 ¾)	AQW-FPK 1085/380-860 BK	1085/380	3410 (134.3)
	915 (36)	1170 (46)	AQW-FPK 1270/445-860 BK	1270/445	3990 (157.1)
	1060 (42)	1345 (53)	AQW-FPK 1450/510-860 BK	1450/510	4560 (179.5)
	1220 (48)	1510 (59½)	AQW-FPK 1615/570-860 BK	1615/570	5075 (199.8)
	1370 (54)	1680 (66¼)	AQW-FPK 1785/625-860 BK	1785/625	5610 (220.9)
	1525 (60)	1855 (73)	AQW-FPK 1955/685-860 BK	1955/685	6145 (241.9)
1675 (66)	2035 (80)	AQW-FPK 2135/750-860 BK	2135/750	6710 (264.2)	

* For smaller pipe sizes, see Canusa High Shrink Product Data Sheet or consult Canusa representative.

Typical Product Properties

Test Name	Test Standard	Unit	Typical Result
Adhesive			
Softening Point	ASTM E28	°C (°F)	89 (192)
Backing			
Tensile Strength	ASTM D638	psi	2900
Elongation	ASTM D638	%	600
Hardness	ASTM D2240	Shore D	46
Abrasion Resistance	ASTM D1044	mg	45
Volume Resistivity	ASTM D257	ohm-cm	10 ¹⁷
Dielectric Strength	ASTM D149	V/mil	700
Water Vapour Transmission	ASTM E96	g/h/m ²	< 0.01
Sleeve			
Adhesion to Steel	ASTM D1000	pli	7
Low Temperature Flexibility	ASTM D2671C	°C (°F)	-20 (-4)
Impact	ASTM G14	in-lbs	50
Fully Recovered Thickness	--	mm (in)	3.7 (0.15)

Product Components



Size Selection

Choose your sleeve based on the maximum flange outer diameter

Example:
If the sleeve needs to protect a ϕ 450mm (18") flange joint with a flange diameter of 635mm (25") and a pipe diameter of 457mm (18")
You would need an AQW-FPK with a supplied diameter that is at least 75mm larger than the flange ϕ and recovers at least 75mm less than the pipe ϕ . Thus, an AQW-FPK 735/260 is required.

How To Order:

Dimensions & Ordering Info	AQW-FPK 735/260-860 BK	Standard Ordering Options
	Colour	AQW-FPK
	Sleeve Width	BK-Black
	Supplied/Recovered	860mm (34")
	Adhesive (thickness as supplied)	735mm / 260mm (28.9" / 10.2")
	Backing (thickness as supplied)	1.1 mm (44 mils)
Configuration	0.8 mm (32 mils)	
		AQW-FPK - Flange Protection Kit

The above represents standard ordering options. 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