

Aqua-Shield™

Corrosion protection sleeves for water pipelines

For more than 35 years, 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.

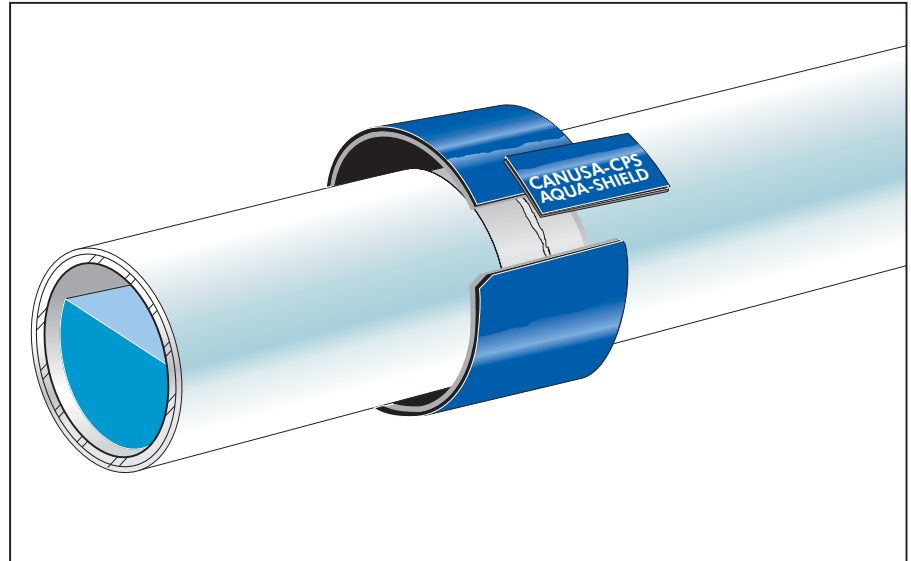
Product Description

Aqua-Shield™ is a family of heat-shrinkable sleeve products that have been specifically designed for the corrosion protection of large diameter 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.

Features & Benefits

Long Term Protection.

Once installed, Aqua-Shield™ provides durable protection against abrasion and chemical attack. The high performance crosslinked backing provides the superior abrasion resistance and mechanical strength required for water transmission and distribution lines. Aqua-Shield™ effectively covers and protects the pipe surface to prevent corrosion. Since no special primers are required, less time is required for installation.



Flexible & Reliable Installation.

The Aqua-Shield™ family of products are available in various configurations for flexibility of installation.

Aqua-Shield™ AQW-HS: Specially constructed and provided in custom cut lengths for field joints on large diameter water pipelines including "O"-ring and field welded configurations, and for "Weld-After-Backfill" applications.

Aqua-Shield™ AQW-FPK: A high expansion/high recovery system, designed for corrosion protection and sealing of flanges and other high profile joints. The system includes skirting sleeves to protect flange bolt areas.

Aqua-Shield™ AQW-FF: Designed specifically for coating factory fittings, service outlets and mitered elbows.

Assured Performance

All Aqua-Shield™ products meet or exceed the requirements of AWWA standard C216-07.

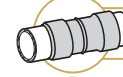
Applications



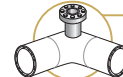
Water Pipelines



Large Diameter



Field Joints



Fittings & Bends

Configurations



Aqua-Shield™ AQW-HS



Aqua-Shield™ AQW-FPK



Aqua-Shield™ AQW-FF

Pipe Sizes



All Sizes

Approvals



AWWA C216-07

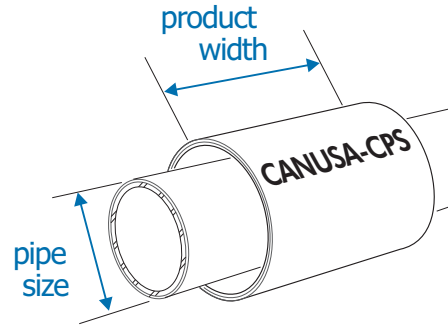
Aqua-Shield™

Typical Product Properties

	Test Standard	Unit	AWWA C216	AQW-HS
Adhesive	Softening Point	ASTM E28	°C (°F)	-
				77 (171)
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	10¹⁷
	Dielectric Strength	ASTM D149	V/mil	400
	Water-vapour Transmission	ASTM E 96	g/h/m ²	0.05
	Heat Shock	AWWA C216	pass / fail	pass
Sleeve	Adhesion to Steel	ASTM D1000	pli (N/cm)	15 (25)
	Lap Shear	ASTM D1002	psi	12
	Low Temperature Flexibility	ASTM D2671	°C (°F)	-20 (-4)
	Impact	ASTM G14	in.-lbs (cm-N)	25 (282)
	Width Deviation		%	± 10

See product specific Product Data Sheets for other typical properties.

Min. Sleeve Width = Bare Steel Dimension + 50mm (2") on each side of the pipe joint.



Please specify **product sleeve width, pipe size.**

How to Order: Aqua-Shield™ AQW-HS

Dimensions & Ordering Info	AQW-HS 1270-450 BL	Standard Ordering Options		AQW-HS Sleeves
		Aqua-Shield™ HS		
<ul style="list-style-type: none"> Colour ▶ Sleeve Width ▶ Pipe Size ▶ Product Designation ▶ Closure ▶ Pipe Size Range ▶ "as supplied" Adhesive Thickness ▶ "as supplied" Backing Thickness ▶ "fully recovered" Sleeve Thickness ▶ 		BL - Blue		
		300, 450, 600, 900mm (12, 18, 24, 36")		
		1270mm (50")		
		Aqua-Shield™ AQW-HS High Stretch		
		CLS (supplied with order)		
		All		
		45 mils (1.1 mm)		
		36 mils (0.9 mm)		
		105 mils (2.6 mm)		

How to Order: Aqua-Shield™ AQW-FPK

Dimensions & Ordering Info	AQW-FPK 735/260-860 YE	Standard Ordering Options		AQW-FPK Sleeves
		Aqua-Shield™ AQW-FPK		
<ul style="list-style-type: none"> Colour ▶ Sleeve Width ▶ Supplied/Recovered Dimensions ▶ Product Designation ▶ 		YE- Yellow / BK- Black		
		860mm (34")		
		see Product Specific Data Sheet		
		Aqua-Shield™ AQW-FPK		

How to Order: Aqua-Shield™ AQW-FF

Dimensions & Ordering Info	AQW-FF-B 450-300 BK	Aqua-Shield™ AQW-FF - Bulk Rolls		AQW-FF Sleeves
			BK- Black	
	300m (1000')			
		450, 600, 900mm (18, 24, 36")		
		Aqua-Shield™ AQW-FF		
Dimensions & Ordering Info	AQW-FF 1270-450 BK	Aqua-Shield™ AQW-FF - Cut-to-Length Sleeves		
			BK- Black	
			450, 600, 900mm (18, 24, 36")	
			All Sizes	
		Aqua-Shield™ AQW-FF		

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