

Aqua-Shield®

Corrosion protection sleeves for water pipelines

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.

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, as well as coating factory fittings and mitered elbows.

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-WAB: The AQW-WAB system is a two layer system comprised of a 6" wide AQW-WAB underlay sleeve followed with the secondary AQW-HS heat shrink sleeve for added protection over the heat affected zone for internally welded field joints / weld-after-backfill applications.

Assured Performance

- The AQW-HS and AQW-WAB products meet and exceed the requirements of AWWA standard C216-15.



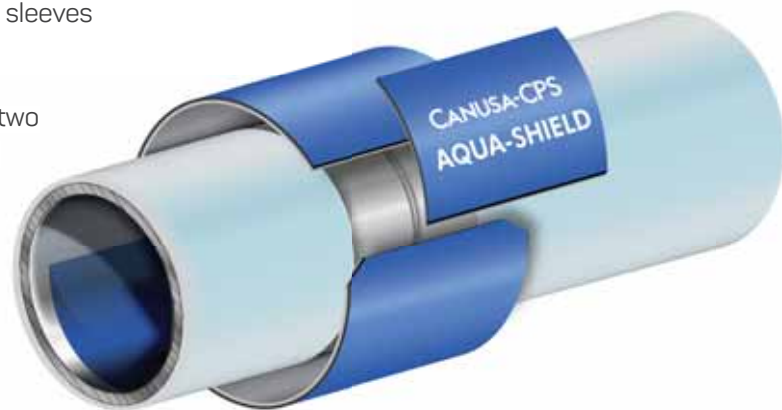
Applications



Water Pipelines



Large Diameter



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| Sleeve Operating Characteristics | | AWWA C216 | AQW-HS | AQW-FPK | AQW-WAB |
|--|-------------|-------------------------|---------------------------|---------------------------|---------------------------|
| Minimum Installation Temp. | | - | 50°C (122°F) | 50°C (122°F) | 50°C (122°F) |
| Adhesive Properties | Test Method | | | | |
| Softening Point | ASTM E28 | - | 77°C (170°F) | 89°C (192°F) | 102°C (215°F) |
| Lap Shear | ASTM D1002 | 12 psi | 35 psi | 13 psi | 30 psi |
| Backing Properties | | | | | |
| Tensile Strength | ASTM D638 | 2200 psi | 2900 psi | 2900 psi | 3000 psi |
| Elongation | ASTM D638 | 400% | 700% | 700% | 600% |
| Hardness | ASTM D2240 | - | 46 Shore D | 46 Shore D | 52 Shore D |
| Volume Resistivity | ASTM D257 | 10 ¹⁴ Ohm-cm | 10 ¹⁷ Ohm-cm | 10 ¹⁷ Ohm-cm | 10 ¹⁷ Ohm-cm |
| Dielectric Strength | ASTM D149 | 400 V/mil | 700 V/mil | 700 V/mil | 700 V/mil |
| Water-vapour Transmission | ASTM E 96 | 0.05 g/h/m ² | < 0.01 g/h/m ² | < 0.01 g/h/m ² | < 0.01 g/h/m ² |
| Heat Shock | AWWA C216 | Pass | Pass | Pass | Pass |
| Sleeve Properties | | | | | |
| Impact | ASTM G14 | 25 in.-lbs | 50 in.-lbs | 50 in.-lbs | 50 in.-lbs |
| Adhesion to Steel | ASTM D1000 | 15 pli | 25 pli | 7 pli | 46 pli |
| Low Temp. Flexibility | ASTM D2671 | - | -20°C (-4°F) | -20°C (-4°F) | -14°C (7°F) |
| Width Deviation | - | ±10 | ±5 | ±5 | ±5 |
| Thickness | | | | | |
| Backing (nominal thickness as supplied) | | | 0.8 mm (0.031") | 0.9 mm (0.036") | 0.6 mm (0.025") |
| Adhesive (nominal thickness as supplied) | | | 1.1 mm (0.045") | 1.1 mm (0.045") | 1.3 mm (0.050") |



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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Quality Management system registered to ISO 9001

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.

CANUSA-CPS

Pipeline corrosion Protection