



# BATES WATER SOLUTIONS, INC.

Challenge Us. We solve Water Equipment Issues.  
760 N. Frontage Rd. Suite 103 - Willowbrook IL 60527  
P. 630-964-1539 F. 630-590-5377

## String Wound Cartridges

*W & WQ Series with Leading-Edge Depth Loading Technology*

PROUDLY MADE IN AMERICA



- BWS 's string wound elements are **manufactured in-house** on custom, high-speed, computer-controlled machines for **perfect thread spacing**
- Customized patterns and spacing offered to adapt to your **specialized applications**
- Our ink and paint elements have a **3-stage multi pattern winding** process offering **true depth loading** and prevents core blinding
- With 6 media selections and 13 micron ratings, we are sure to **produce the element you require**
- **All end cap configurations** available to fit your existing housing
- FDA polypropylene and cotton constructed elements are **FDA acceptable** under CFR Title 21 for food and potable water contact
- **Standard diameters** are 2.5 and 4.5 inches
- **Standard lengths** from 9.75 to 40 inches
- **"WS" String Wound Cartridges** are Tested and Certified to:  
NSF/ANSI 61 Standard &  
NSF/ANSI 42 Standard for Component



C USA  
Component

***Please call with all of your applications***  
**(630) 964-1539**

Media	Maximum Temperature	Applications
N - Natural Cotton	300°F / 150°C	Same (non-FDA) applications as bleached cotton.
C - Bleached Cotton FDA	300°F / 150°C	For potable liquids, vegetable oils, beverages, organic solvents, water, dilute acids, petroleum oils and other services.
P - Polyester	250°F / 121°C	Chemical compatibility similar to cotton and polypropylene. Has a higher temperature resistance than polypropylene in most cases.
E - Polypropylene	180°F / 82°C	Filtration of organic acids, alkalis, solvents and many other chemicals. Very effective in low viscosity solutions.
S - Polypropylene FDA	180°F / 82°C	Same chemical compatibility as polypropylene but complies with FDA regulations that permit contact with food and edible products.
R - Rayon	300°F / 150°C	Chemical compatibility similar to cotton. Used primarily in filtration of petroleum oils.
Caps & Cores	Maximum Temperature	Characteristics
E - Polypropylene FDA	180°F / 82°C	For lower temperature applications of corrosive fluids and gases. Easily incinerated to a trace of ash.
S - Tinned Steel	375°F / 191°C	General purpose applications
4 - 304 Stainless Steel	750°F / 399°C	For high temperature dilute acids and moderately corrosive fluids.
6 - 316 Stainless Steel	750°F / 399°C	For high temperature applications and highly corrosive fluids.
Gaskets & O-Rings	Maximum Temperature	Characteristics
B - Buna	300°F / 149°C	Very good resistance to water, alkalis and many acids. Poor resistance to oils, gasoline and most solvents (except oxygenated).
V - Viton®	450°F / 232°C	Can be used at high temperature with many fuels, lubricants, hydraulic fluids and solvents.
T - Teflon®	500°F / 260°C	Excellent resistance to almost all chemicals and solvents. Good heat resistance, exceptionally good low-temperature properties.
S - Silicone	600°F / 316°C	Excellent heat resistance. Fair water resistance, poor resistance to steam at high pressures. Fair to good acid and alkali resistance, poor resistance to oils and solvents.
N - Neoprene	250°F / 121°C	Good resistance to non-aromatic petroleum, fatty oils, solvents (except aromatic, chlorinated or ketone types). Good water and alkali resistance, fair acid resistance.
E - EPDM	300°F / 149°C	Very good water resistance. Excellent resistance to oils and gasoline. Fair to good resistance to acids and alkalis.



222, 226, Flat Gasket, Spring, Fin

### Building a Part Number

STRING WOUND	MEDIA	MICRON		CARTRIDGE DIAMETER	CARTRIDGE LENGTH	CORE MATERIAL	CORE COVER	POLYPROPYLENE END CAP	GASKET / O-RING
W	P	10	30	S	3	E	X	1	
W = Standard ✓ WQ = Ink & Paint	N = natural cotton C = bleached cotton FDA P = polyester E = polypropylene S = polypropylene FDA ✓ R = rayon	.5 1 3 5 10 20 25	30 50 75 100 125 150	S = 2.5" Standard M = 4.5" * C = Custom	2 = 9.75 3 = 10 4 = 19.5 5 = 20 6 = 29.25 7 = 30 8 = 39 9 = 40	E = Polypropylene ✓ T = Tinned Steel 4 = 304 SS 6 = 316 SS	X = No cover E = Polypropylene P = Polyester N = Nylon S = Custom	1 = DOE/no caps ✓ 2 = 222/Fin ✓ 3 = 222/Spring ✓ 4 = 222/Flat ✓ 5 = 226/Flat 6 = 226/Fin 7 = 226/Spring 8 = SOE/Spring ✓ 9 = Flat Gasket A = Custom	DOE = No selection req. B = Buna ✓ V = Viton® T = Teflon® S = Silicone ✓ N = Neoprene D = EPDM

\* For the 4.5" diameter cartridge, only DOE end caps are available

✓ Cartridge Combinations - Tested & Certified to: NSF/ANSI 61 & 42 Standard - Component

