



Graver Technologies

Filtration | Separation | Purification

## QCR™ Cyst Reduction Filter Series

### Health Dangers of Cryptosporidium

In recent years, significant outbreaks of water borne disease have been traced to Cryptosporidium and Giardia parasites. These naturally occurring organisms are present in many surface water sources and are highly resistant to inactivation by conventional water treatment processes such as chlorination. Healthy individuals typically recover from the common gastrointestinal effects within a few weeks, however for individuals with weakened or undeveloped immune systems, it can be life threatening.

In order to ensure the safety of the water supply, standards have been established that define the minimum performance requirements for materials and components of water treatment systems. The QCR Cyst Reduction filter contains an absolute 1 micron filter media designed to exceed the ANSI/NSF Standard 53 of 99.95% for the removal of cysts based upon the polystyrene challenge in water\*.

### Filter Features-Benefits

- Constructed entirely of polypropylene  
Compatible with most solutions
- 7.7 ft<sup>2</sup> (0.72 m<sup>2</sup>) of effective filter area  
High flow rates at low pressure drop  
High dirt capacity
- Meets/exceeds NSF Standard 53 for cyst reduction\*
- Various O-Ring materials and configurations  
Easily retrofits most systems
- High surface area  
High flow rates and long on-line service
- Meets USP Class VI Biological Test for plastics

### FDA Listed Materials

All polypropylene material used in manufacturing complies with the regulations of the Food and Drug Administration (FDA) Title 21 of the Code of Federal regulations 174.5, 177.1520 and 177.1630, as applicable for food and beverage contact.

\* Performance tested and verified by Independent Laboratory Testing



### Filter Specifications

#### Materials

|            |                                               |
|------------|-----------------------------------------------|
| Media:     | Polypropylene                                 |
| Core/cage: | Polypropylene                                 |
| End caps:  | Polypropylene                                 |
| O-Rings:   | Silicone O-Ring<br>(other materials optional) |

#### Filter Connections

P2 (226/flat), P3 (222/flat), P7 (226/fin), P8 (222/fin)

#### Dimensions

|                                |                                                                                                          |
|--------------------------------|----------------------------------------------------------------------------------------------------------|
| Nominal lengths:               | 9.75", 10", 20", 30", 40"<br>25.4, 50.8, 76.2, 101.6 cm                                                  |
| Outside diameter:              | 2.7" (6.9 cm)                                                                                            |
| Inside diameter:               | 1.0" (2.54 cm)                                                                                           |
| Maximum operating temperature: | 176°F (80°C)                                                                                             |
| Maximum differential pressure: | 75 psid @ 70°F (5.2 bar @ 21°C)<br>40 psid @ 176°F (2.8 bar @ 80°C)<br>15 psid @ 190°F (1.03 bar @ 88°C) |
| Recommended change-out:        | 35 psid (2.4 bar)                                                                                        |

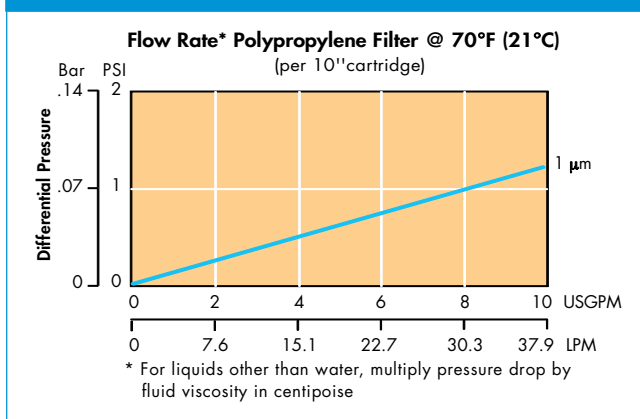
## QCR Nomenclature Information

|                                          |                                        |                                                                     |                                                                                                                                                                                |                                                                                                                                                      |
|------------------------------------------|----------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>QCR</b>                               | <b>1</b>                               | <b>-30</b>                                                          | <b>P7</b>                                                                                                                                                                      | <b>V</b>                                                                                                                                             |
| <b>Filter Type</b><br>QCR Series Filters |                                        | <b>Nominal Length (inches)</b><br>-9.75<br>-10<br>-20<br>-30<br>-40 |                                                                                                                                                                                | <b>Gasket or O-Ring</b><br><b>S</b> Silicone<br><b>B</b> Buna-N<br><b>E</b> EPDM<br><b>V</b> Viton<br><b>T</b> Teflon encap.<br>Viton (O-Rings only) |
|                                          | <b>Retention Rating (microns)</b><br>1 |                                                                     |                                                                                                                                                                                |                                                                                                                                                      |
|                                          |                                        |                                                                     | <b>End Configuration</b><br><b>P2</b> 226/Flat Single Open End<br><b>P3</b> 222/Flat Single Open End<br><b>P7</b> 226/Fin Single Open End<br><b>P8</b> 222/Fin Single Open End |                                                                                                                                                      |

Example: QCR 1-30 P7V

Note: DOE style filters not offered in the QCR product. Cyst reduction claim not valid for DOE style filters per NSF standard 53, for bottled water facilities.

### QCR FLOW RATE



**HENNLICH GmbH & Co KG**

Alfred-Kubin-Straße 9 a-c  
 A-4780 Scharding  
 Tel. +43 7712 3163-0  
 Fax +43 7712 3163-24

[filtertechnik@hennlich.at](mailto:filtertechnik@hennlich.at)  
[www.hennlich.at](http://www.hennlich.at)