# **Specification Language: 95STS BF16-1.5SC00 Birm Filter**

## **Control Valve**

1. The mineral tank will have one (1) 38 mm (1.5“), Canature WaterGroup 95 series, top mounted, plastic PPO (Noryl) body, motor driven control valve and will be of the piston/seal/spacer type.
2. The valve will have an electronic controller.
3. The control valve will have an integrated turbine meter.
4. The valve will be an NSF/ANSI 44 Certified for Materials and Structural Integrity Requirements.
5. The control valve will be designed to work at a pressure from 137 – 862 kPa gauge (20 – 125 psig) and from temperatures of 1 °C (34 °F) to 43 °C (110 °F).
6. The control valve and electronics will have a warranty of five (5) years.

## **Media**

1. The mineral tank will contain 762 mm (30”) bed depth of high quality, NSF approved Birm media.
2. The mineral tank will have graded and washed quartz support bed of 76 mm (3”) gravel above the bottom of the distribution system.

## **Mineral Tank**

1. The mineral tank will be 406 mm (16”) in diameter and 1651 mm (65”) in height.
2. The mineral tank will be an NSF/ANSI 44 Certified for Materials and Structural Integrity.
3. The liner material will be made of polyethylene and the outer winding will be made of a high-performance fibreglass and epoxy resin.
4. The maximum operating pressure will be 1034 kPa gauge (150 psig) with an operating temperature range of 1 °C – 49 °C (34 °F – 120 °F) with a maximum vacuum of 127 mm Hg (2.46 psi).
5. The system will contain one (1) mineral tank.
6. The mineral tank will have a warranty of five (5) years.

## **Controller Programming**

1. The homepage will display time & date, the meter mode, flow rate, and the remaining system volume.
2. The valve will have four (4) buttons for programming purposes. A Menu, Set/Regen, Up/+, and Down/- buttons.

## **System Set Up and Operation**

1. The system is set up as a calendar clock system and will have its regeneration initiated via a system timer.
2. The maximum recommended operating pressure will be 139 - 689 kPa gauge (20 - 100 psig)
3. Each timer will have a transformer that will be connected to a 110V AC 50/60Hz (+/- 20%) input and will output 12V AC.
4. Filtered water can be drawn continuously from the filter unit at flows of up to 7 USGPM (0.44 l/s).
5. The backwash requirement for the filter is 15 USGPM (0.95 l/s).

## **Optional feature**

## **Air Induction System**

1. There shall be one (1) air induction assembly designed for the peak flow and ready for field installation on the raw water system inlet line of the filter.

## **System Part Number**

The filter will be a **95STS BF16-1.5SC00** as manufactured by Canature WaterGroup.