



FULL SERIES

**285-HAQT SOFTENER/FILTER VALVES SPECIFICATIONS**

**MODELS**

|                       |                         |                       |
|-----------------------|-------------------------|-----------------------|
| <b>285-HAQT-FT-NX</b> | Electronic Filter Timer |                       |
| <b>285-HAQT-NX-HW</b> | Electronic Timer/Meter  | Hard Water By-Pass    |
| <b>285-HAQT-NX-NH</b> | Electronic Timer/Meter  | No Hard Water By-Pass |



**FLOW RATE@ 50 PSI (3.5 BAR) VALVE ALONE**

|                                    |        |
|------------------------------------|--------|
| Continuous 15 psi (1 bar) Drop     | 51 gpm |
| Peak 25 psi (1.7 bar) Drop         | 66 gpm |
| Max Backwash 25 psi (1.7 bar) Drop | 49 gpm |
| CV 1psi (0.07 bar) Drop            | 13.2   |

**BACKWASH (Filter Valve)  
REGERATION (Softener Valve)**

|                          |                 |
|--------------------------|-----------------|
| <b>Downflow/Upflow</b>   | Downflow        |
| <b>Cycles</b>            | 5               |
| <b>Adjustable Cycles</b> | Mechanical, All |
| <b>Time Available</b>    | 164 Minutes     |

**METER**

|                       |  |
|-----------------------|--|
| <b>Accuracy Range</b> | 1.5 - 75 gpm ± 5%  |
| <b>Capacity Range</b> | Standard: 625 - 10,125 gal<br>Extended: 3,125 - 53,125 gal |

**VALVE SPECIFICATIONS**

|                             |       |         |
|-----------------------------|-------|---------|
| <b>Inlet/Outlet</b>         | 1 ½"  | NPT     |
| <b>Mounting Base</b>        | 4"    | 8 UN    |
| <b>Distributor Pilot</b>    | 1.96" | OD      |
| <b>Drain Line</b>           | 1"    |         |
| <b>Brine Line</b>           | ½"    |         |
| <b>Height</b>               | 7 ½"  |         |
| <b>Weight (Valve Gross)</b> | TIMER | 22 lb   |
|                             | METER | 27.6 lb |

**ADDITIONAL INFORMATION**

|                          |  |
|--------------------------|--|
| <b>Electrical Rating</b> | 220V, 110V, 24V - 50Hz, 60Hz   |
| <b>Max. VA</b>           | 74 VA  |
| <b>Water Pressure</b>    | Hydrostatic: 300 psi (20 bar)<br>Working: 20 - 120 psi (1.4 bar - 8 bar) |
| <b>Temperature</b>       | 34 - 110° F (1 - 43° C)  |

**TANK SIZE RANGE (recommended)**

|                        |           |
|------------------------|-----------|
| <b>Filters</b>         | 14" - 24" |
| <b>Water Softeners</b> | 14" - 30" |

**WARNING:** Do not use with water that is micro-biologically unsafe or of unknown quality without adequate disinfection before or after the system.

**290-HAQT SOFTENER/FILTER VALVES SPECIFICATIONS**

**MODELS**

|                        |                         |                       |
|------------------------|-------------------------|-----------------------|
| <b>290-HAQT-FT-NX</b>  | Electronic Filter Timer |                       |
| <b>290S-HAQT-NX-HW</b> | Electronic Timer/Meter  | Hard Water By-Pass    |
| <b>290S-HAQT-NX-NH</b> | Electronic Timer/Meter  | No Hard Water By-Pass |



**FLOW RATE@ 50 PSI (3.5 BAR) VALVE ALONE**

|                                    |         |
|------------------------------------|---------|
| Continuous 15 psi (1 bar) Drop     | 106 gpm |
| Peak 25 psi (1.7 bar) Drop         | 140 gpm |
| Max Backwash 25 psi (1.7 bar) Drop | 25 gpm  |
| CV 1psi (0.07 bar) Drop            | 27.5    |

**BACKWASH (Filter Valve)**

**REGERATION (Softener Valve)**

|                          |                 |
|--------------------------|-----------------|
| <b>Downflow/Upflow</b>   | Downflow        |
| <b>Cycles</b>            | 5               |
| <b>Adjustable Cycles</b> | Mechanical, All |
| <b>Time Available</b>    | 164 Minutes     |

**METER**

|                       |   |
|-----------------------|---|
| <b>Accuracy Range</b> | 3 - 150 gpm ± 5%  |
| <b>Capacity Range</b> | Standard: 1,250 - 21,250 gal<br>Extended: 6,150 - 106,250 gal |

**VALVE SPECIFICATIONS**

|                             |       |         |
|-----------------------------|-------|---------|
| <b>Inlet/Outlet</b>         | 2"    | NPT     |
| <b>Mounting Base</b>        | 4"    | 8 UN    |
| <b>Distributor Pilot</b>    | 1.96" | OD      |
| <b>Drain Line</b>           | ¾"    |         |
| <b>Brine Line</b>           | ½"    |         |
| <b>Height</b>               | 11 ½" |         |
| <b>Weight (Valve Gross)</b> | TIMER | 35.3 lb |
|                             | METER | 41.9 lb |

**ADDITIONAL INFORMATION**

|                          |  |
|--------------------------|--|
| <b>Electrical Rating</b> | 220V, 110V, 24V - 50Hz, 60Hz   |
| <b>Max. VA</b>           | 143 VA   |
| <b>Water Pressure</b>    | Hydrostatic: 300 psi (20 bar)<br>Working: 20 - 120 psi (1.4 bar - 8 bar) |
| <b>Temperature</b>       | 34 - 110° F (1 - 43° C)  |

**TANK SIZE RANGE (recommended)**

|                        |           |             |
|------------------------|-----------|-------------|
| <b>Filters</b>         | 14" - 21" | MJB 1/23/18 |
| <b>Water Softeners</b> | 14" - 36" |             |

**\*NOTE:** Performance capacity depends on system design, flow rate and certain other applications. Please consult your manufacturers representative for assistance in sizing commercial or industrial applications.



# COMMERCIAL SERIES

## Filter & Softening Heads

HYDROSPHERE TECHNOLOGIES, LLC™

### 315-HAQT SOFTENER/FILTER VALVES SPECIFICATIONS

#### MODELS

|                        |  |
|------------------------|--|
| <b>315-HAQT-FT-NX</b>  | Electronic Filter Timer                      |
| <b>315S-HAQT-NX-HW</b> | Electronic Timer/Meter Hard Water By-Pass    |
| <b>315S-HAQT-NX-NH</b> | Electronic Timer/Meter No Hard Water By-Pass |



#### FLOW RATE@ 50 PSI (3.5 BAR) VALVE ALONE

|                                    |         |
|------------------------------------|---------|
| Continuous 15 psi (1 bar) Drop     | 95 gpm  |
| Peak 25 psi (1.7 bar) Drop         | 124 gpm |
| Max Backwash 25 psi (1.7 bar) Drop | 105 gpm |
| CV 1psi (0.07 bar) Drop            | 24.8    |

#### BACKWASH (Filter Valve) REGERATION (Softener Valve)

|                   |                 |
|-------------------|-----------------|
| Downflow/Upflow   | Downflow        |
| Cycles            | 5               |
| Adjustable Cycles | Mechanical, All |
| Time Available    | 164 Minutes     |

#### METER

|                |   |
|----------------|---|
| Accuracy Range | 3 - 150 gpm ± 5%  |
| Capacity Range | Standard: 1,250 - 21,250 gal<br>Extended: 6,150 - 106,250 gal |

#### VALVE SPECIFICATIONS

|                      |       |         |
|----------------------|-------|---------|
| Inlet/Outlet         | 2"    | NPT     |
| Mounting Base        | 4"    | 8 UN    |
| Distributor Pilot    | 2.46" | OD      |
| Drain Line           | 2"    |         |
| Brine Line           | 1"    |         |
| Height               | 10"   |         |
| Weight (Valve Gross) | TIMER | 41.9 lb |
|                      | METER | 48.5 lb |

#### ADDITIONAL INFORMATION

|                   |  |
|-------------------|--|
| Electrical Rating | 220V, 110V, 24V - 50Hz, 60Hz   |
| Max. VA           | 85 VA  |
| Water Pressure    | Hydrostatic: 300 psi (20 bar)<br>Working: 20 - 120 psi (1.4 bar - 8 bar) |
| Temperature       | 34 - 110° F (1 - 43° C)  |

#### TANK SIZE RANGE (recommended)

|                 |           |
|-----------------|-----------|
| Filters         | 24" - 42" |
| Water Softeners | 24" - 63" |
| Side Mount      | 63"       |

**\*NOTE:** Performance capacity depends on system design, flow rate and certain other applications. Please consult your manufacturers representative for assistance in sizing commercial or industrial applications.

**WARNING:** Do not use with water that is micro-biologically unsafe or of unknown quality without adequate disinfection before or after the system.

### 390-HAQT SOFTENER/FILTER VALVES SPECIFICATIONS

#### MODELS

|                        |  |
|------------------------|--|
| <b>390-HAQT-FT-NX</b>  | Electronic Filter Timer                      |
| <b>390S-HAQT-NX-HW</b> | Electronic Timer/Meter Hard Water By-Pass    |
| <b>390S-HAQT-NX-NH</b> | Electronic Timer/Meter No Hard Water By-Pass |



#### FLOW RATE@ 50 PSI (3.5 BAR) VALVE ALONE

|                                    |         |
|------------------------------------|---------|
| Continuous 15 psi (1 bar) Drop     | 250 gpm |
| Peak 25 psi (1.7 bar) Drop         | 325 gpm |
| Max Backwash 25 psi (1.7 bar) Drop | 100gpm  |
| CV 1psi (0.07 bar) Drop            | 65.0    |

#### BACKWASH (Filter Valve) REGERATION (Softener Valve)

|                   |                 |
|-------------------|-----------------|
| Downflow/Upflow   | Downflow        |
| Cycles            | 5               |
| Adjustable Cycles | Mechanical, All |
| Time Available    | 164 Minutes     |

#### METER

|                |  |
|----------------|--|
| Accuracy Range | 7 - 300 gpm ± 5%   |
| Capacity Range | Standard: 3,750 - 63,750 gal<br>Extended: 18,750 - 318,250 gal |

#### VALVE SPECIFICATIONS

|                      |       |          |
|----------------------|-------|----------|
| Inlet/Outlet         | 3"    | NPT      |
| Mounting Base        | 6"    | 8 UN     |
| Distributor Pilot    | 3.5"  | OD       |
| Drain Line           | 2"    |          |
| Brine Line           | 1"    |          |
| Height               | 15.3" |          |
| Weight (Valve Gross) | TIMER | 94.7 lb  |
|                      | METER | 121.3 lb |

#### ADDITIONAL INFORMATION

|                   |  |
|-------------------|--|
| Electrical Rating | 220V, 110V, 24V - 50Hz, 60Hz   |
| Max. VA           | 171 VA   |
| Water Pressure    | Hydrostatic: 300 psi (20 bar)<br>Working: 20 - 120 psi (1.4 bar - 8 bar) |
| Temperature       | 34 - 110° F (1 - 43° C)  |

#### TANK SIZE RANGE (recommended)

|                 |           |
|-----------------|-----------|
| Filters         | 36" - 48" |
| Water Softeners | 36" - 48" |
| Side Mount      | 36" - 63" |

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