

# TASK MASTER III™

## 1 ½ INCH COMMERCIAL INDUSTRIAL WATER SOFTENER AND FILTER VALVE

**APPLICATION:** TOP MOUNTED IN WATER KING RF SERIES, SIDE MOUNTED IN WATER KING MF SERIES , SIDE MOUNTED IN MF SUPER FLOW SYSTEMS.

- The Task Master III™ is a **316 Stainless Steel 1½ inch**, five cycle, water softener control valve.
  - There is only one moving part – the piston.
  - The valve body is **316 SS and the piston is stainless steel with EPDM seals and inserts.**
  - The valve has two different tank adaptors allowing top mount on a fiberglass tank or side mount on the face piping on a steel tank.
  - The housing for the brine ejector is cast into the valve body making it an integral part of the valve.
  - The piston is motor driven and is not dependent on water pressure. It shifts smoothly without water hammer. The drive assembly positions the plunger for each of the five cycles.
- The valve design assures synchronization of the drive assembly with the **electronic timer and optical sensors** making certain the plunger is correctly positioned for each of the five cycles of softening.
- ERcT 6-day or 7-day electronic timer with ability to independently program each cycle time.
- ERcd demand regeneration timer with variable reserve.
- The electrical enclosure carries a NEMA 4 rating.
- Since brining and process control often must be coordinated with the regeneration cycles of a softener, the valve is designed to provide an on/off signal and dry contacts for external electrical functions.
- **Temperature rating is 180°F. Operating pressure is 125 psi.**
- **71 gpm backwash rate (at 25 psi head loss)**
- Certifications: UL, CSA, TÜV and CE. ANSI/NSF 61 (pending)



## CAT315.2

VALVE MODEL	PART NO.
<b>RF TOP MOUNT</b>	
RF-45-1½"	707150-38
RF-50-1 ½"	707150-39
RF-70-1½"	707150-39
RF-100-1½"	707150-40
RF-120-1½"	707150-41
RF-150-1½"	707150-42
RF-240-1½"	707150-43
RF-300-1½"	707150-44
RF-450-1½"	707150-45
<b>MF SIDE MOUNT</b>	
MF-120-1½"	707150-74
MF-150-1½"	707150-75
MF-180-1½"	707150-76
MF-200-1½"	707150-77
MF-225-1½"	707150-78
MF-240-1½"	707150-79
MF-300-1½"	707150-80
MF-450-1½"	707150-81
MF-600-1½"	707150-82
MF-750-1½"	707150-83
<b>MF MM FILTER</b>	
FMF 150-1½-MM	707155-3-3
<b>RF FILTER</b>	
FRF 70-1½-T, -C	707150-1
FRF 70-1½-S	707150-2
FRF 70-1½-I	707150-4
FRF 120-1½-T, -C, -S	707150-3
FRF 120-1½-I	707150-5
FRF 150-1½-T, -C	707150-6
FRF 150-1½-S	707150-7
FRF 150-1½-I	707150-8
<b>MF FILTER</b>	
FMF 240-1½-T, -C	707150-9
FMF 240-1½-S	707150-10
FMF 240-1½-I	707150-11
FMF 300-1½-C	707150-12
<b>RF MM FILTER</b>	
FRF 45-1½-MM	707156-3-3
FRF 50-1 ½-MM	707151-3-3
FRF 70-1½-MM	707151-3-3
FRF 100-1½-MM	707152-3-3
FRF 120-1½-MM	707153-3-3
FRF 150-1½-MM	707154-3-3

**Control Valve Specifications.** The main control valve(s) shall be the Task Master III™ with electronic controller to actuate the cycles of backwash, brine, slow rinse, fast rinse, and service for a water softener (or backwash, rinse and service for a filter). The control valve(s) shall be Task Master III™ 5-Cycle, multi-port control valve(s) with machined passivated CF8M Type 316 Stainless Steel body, Type 316 Stainless Steel piston assembly, and EPDM (NSF61 and WRAS Approved) inserts and seals with electronic controller and drive motor assembly in a NEMA 4/IP65 Style Enclosure. The valve shall operate with a single motor driven piston positioned by optical sensors. Valve inlet and outlet shall be 1 ½" FNPT. Backwash drain shall be ¾" or 1 ½" depending on flow. The brine inlet shall be ½". The one piece brine eductor shall be installed in the valve. The valve shall be equipped with threaded ¼" FNPT ports for the installation of sample taps and pressure gauges. (Taps and gauges are optional.) Hard water by-pass shall be available during all regeneration cycles at 70 gpm or at the peak flow rate of the unit, at a pressure drop less than 25 psi, whichever is less. No hard water bypass option is obtained by adding a shut off kit to the valve. The valve shall be of a single piston design and shall not use multiple plungers or diaphragm valves. Maximum rated power shall be 125 watts with available current options of 115 VAC, 230 VAC, 100 VAC, 200 VAC, in 50 or 60 Hertz. Ambient operating temperature range shall be 34°F (1°C) to 150°F (65°C). Fluid temperature range shall be 34°F (1°C) to 180°F (82°C). Operating pressure range shall be 20-125 psi (1.38 - 8.6 bar). The valve shall have UL, CSA, TÜV and CE certifications. ANSI/NSF 61 certification is pending.

