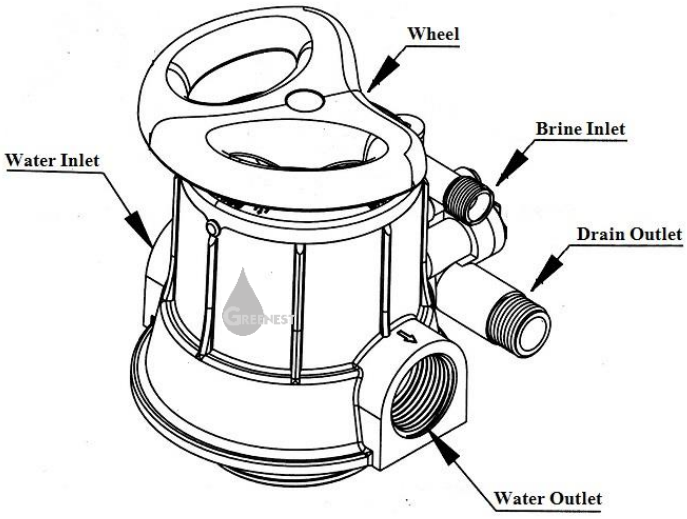
Manual Multi Filter Control Valve

Product Technical Parameters						
Model	**Inlet/Outlet**	**Drain**	**Brine**	**Base**	**Flow Rate (m^3/h)**	**Tank Size**
F64A1	1” Female	1/2” Male	3/8” Male	2.5” Male	4.5	6” – 12”
F63B1	1” Female	1/2” Male	3/8” Male	2.5” Male	6	6” – 14”
N74A1	2” Female	1” Male	1/2” Male	4” Male	10	10” – 24”

Service Condition		
Item		**Requirements**
Service Conditions	**Pressure**	0.15 MPa – 0.6 MPa
	Temperature	5°C – 50°C
Inlet Water Quality	**Turbidity**	< 2 FTU
	Hardness	< 10 mmol/L
	Free Chlorine	< 0.1 mg/L
	Iron (Fe^{2+})	< 0.3 mg/L
Application	**Filter media**	Ion Exchange Resin

System Configuration				
Tank Size (inch)	**Resin Volume (L)**	**Flow Rate (m^3/hrs)**	**Brine Tank Size (mm)**	**Min. Salt for Regeneration (kg)**
7x35	16	0.5	Dia 200 x H 500	2.4
8x35	25	0.7	Dia 250 x H 520	4.0
10x35	40	1.2	Dia 250 x H 520	6.0
10x54	60	1.8	Dia 400 x H 800	9.0
12x65	100	2.5	Dia 450 x H 940	15.0
14x65	150	4.5	Dia 550 x H 1160	22.5
16x72	200	5.0	Dia 740 x H 1250	30.0
20x72	300	7.0	Dia 840 x H 1400	45.0



Working Principle			
State 1	Back Wash	Flushing dust, turbidity and other contaminants ,(15-20 min)	Water Inlet > Drain Outlet
State 2	Brine & Slow Rinse	Brine : Start to regenerate by salt (NaCl) (25 – 30 min) Slow rinse : arrange and cleaning media filter (25 – 30 min)	Brine Line > Drain Outlet Water Inlet > Drain Outlet
State 3	Brine Refill	Feed water to brine tank for preparation to regenerate next time and the system continue in the fast rinse at the same time	Water Inlet > Brine Line and Drain Outlet
State 4	Fast Rinse	Cleaning media filter for preparation to State 4 (15 – 20 min)	Water Inlet > Drain Outlet
State 5	Service	The filter cycle is normal*	Water inlet > Water outlet

* Testing by Hardness tester before service on state 5

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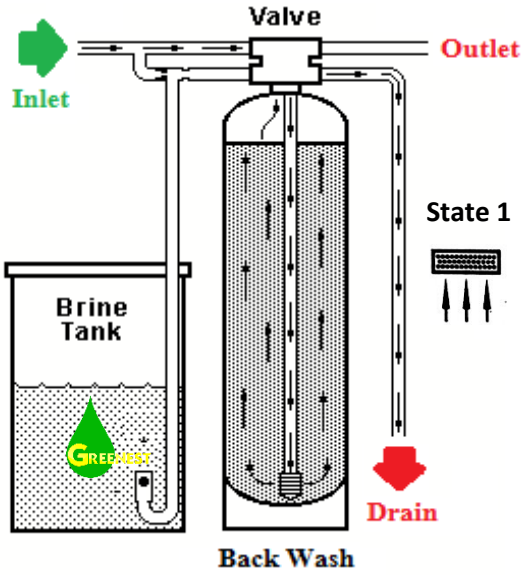
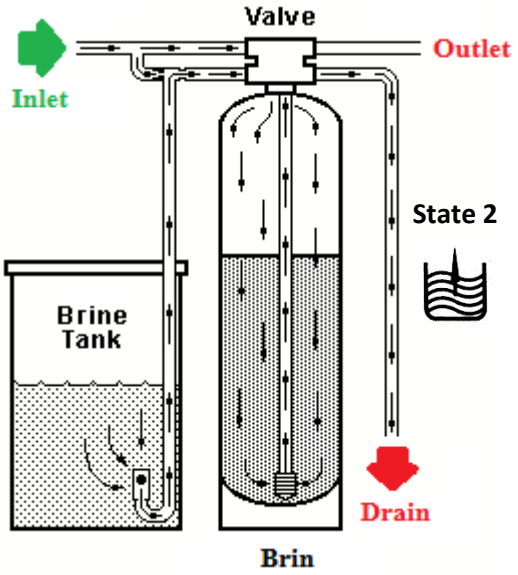
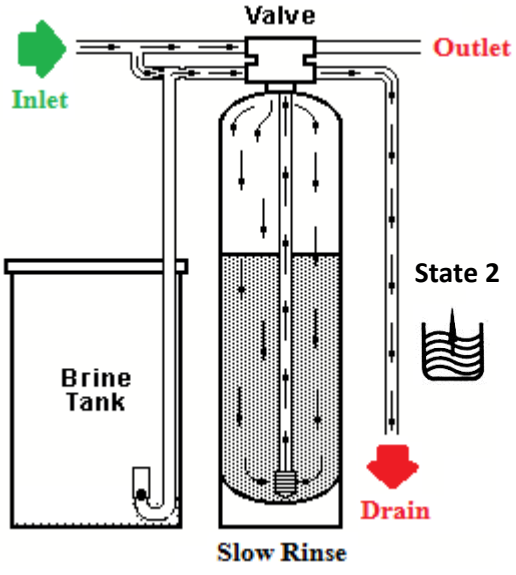
Working Flow Chart



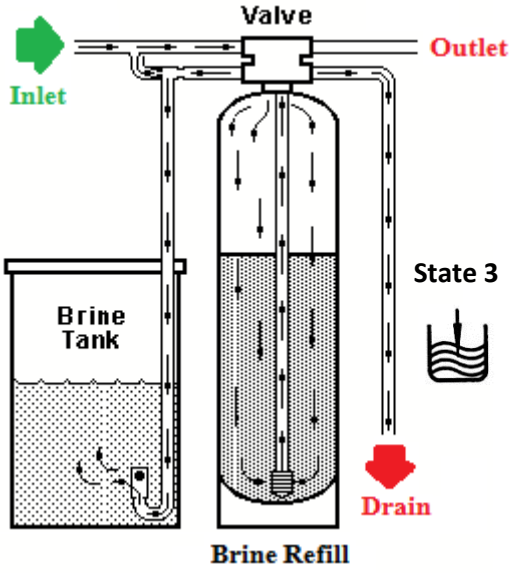
Back Wash



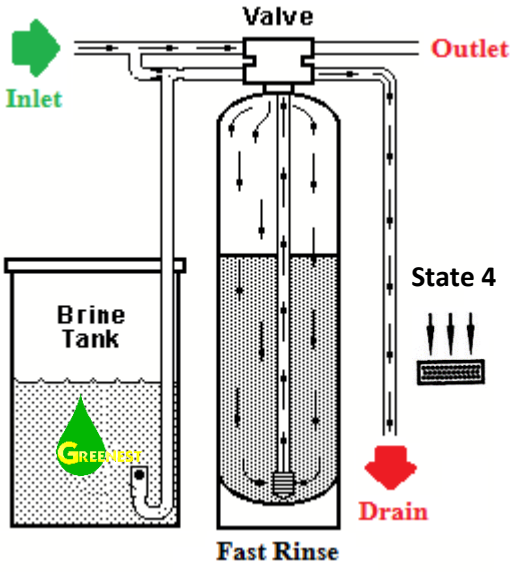
Brin



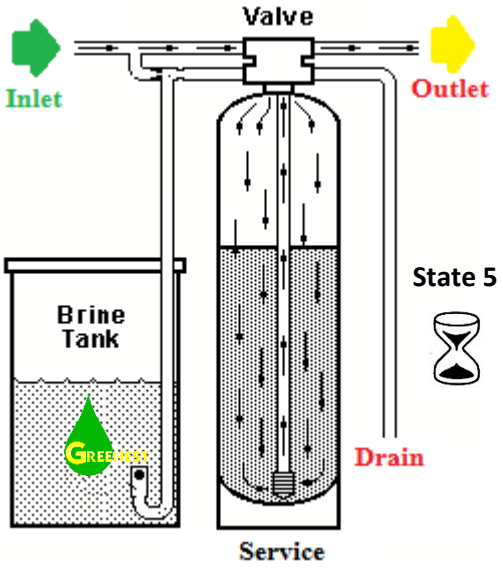
Slow Rinse



Brine Refill



Fast Rinse



Service