

Osmonics®

Autotrol® Product Specifications

Performa™ Cv Softener Valve 962/962TC



■ Flow Rates (Valve Only)

- Service @ 15 psi (1.05 Kg/cm) drop..... 25.0 gpm (5.7 m³/h)
- Backwash (Softener) @ 25 psi (1.76 Kg/cm) drop .. 20.0 gpm (4.5 m³/h)
- Service..... Cv = 6.5 (Kv = 5.58)
- Backwash Softener Cv = 4.0 (Kv = 3.46)

■ Control Operation

- Control Configurations:
962 Microprocessor Demand System
962TC Electronic Time Clock
- Cycles: Length Programmable
 - Backwash 3 - 30 Minutes
 - Brine Electronically Calculated
 - Slow Rinse..... 7 - 125 Minutes
 - Fast Rinse..... 2 - 19 Minutes

■ Valve Connections/Dimensions

- Tank Thread..... 2-1/2 inches – 8, Male
- Inlet/Outlet..... 1-3/4 inches –12 UNC-2A Male
- Drain Line 3/4-inch NPT, Male
- Brine Line 3/8-inch NPT, Male
- Distributor Tube O.D. Diameter 1.050 inches (27 mm)
- Distributor Tube Length 1/2 ± 1/2 inches (13 mm ± 13 mm) Above Tank

■ Design Specifications/Ratings

- Valve Body Glass-Filled Noryl*
- Rubber Components..... Compounded for Cold Water
- Weight (Valve with Control)..... 4.5 lbs (2.0 Kg)
- Transformer Output..... 12VAC 400 mA (4.6 VA)
- Transformer Input..... 115V 50/60 Hz; 230V 50/60 Hz; 100V 50/60 Hz
- Operating Pressure 20 - 120 psi (1.40 - 8.43 Kg/cm)
Canada..... 20 - 100 psi (1.40 - 7.03 Kg/cm)
- Water Temperature..... 35° - 100°F (2° - 38°C)

■ Options

- Bypass Valve, Model 1265 1-3/4 inches - 12 UNC-2A Male
- Bypass Fitting Kits:
Copper, Sweat Tube Adapter 1-inch or 3/4-inch or 28 mm or 22 mm
CPVC, Solvent Weld Tube Adapter 1-inch or 3/4-inch or 25 mm
Plastic NPT or BSPT Pipe Adapter 1-inch Male or 3/4-inch Male
Brass NPT or BSPT Pipe Adapter 1-inch Male or 3/4-inch Male

■ Recommended Drain Flow Controls[†]

Tank Diameter Inches (mm)	Bed Area Sq. Ft.	Anion Resin @ 3 gpm/sq. ft. (m ³ /h / sq. ft.)	Cation Resin @ 5 gpm/sq. ft. (m ³ /h / sq. ft.)
14 (35.6)	1.02	3 (.7)	5 (1.1)
16 (40.6)	1.38	4 (.9)	7 (1.5)
18 (45.7)	1.76	5 (1.1)	8 (1.8)
21 (53.3)	2.4	7 (1.5)	12 (2.7)

[†]Backwash for Anion and Cation Resin @ 55°F (12.7°C) water temperature.

*Noryl is a trademark of General Electric Company.

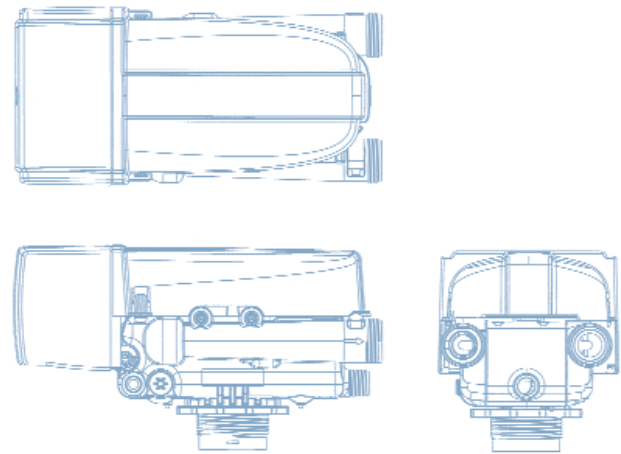
■ Injector Flow Rate Chart

PSI (Kg/cm)	L Injector		M Injector		N Injector	
	Draw gpm (Lpm)	Rinse gpm (Lpm)	Draw gpm (Lpm)	Rinse gpm (Lpm)	Draw gpm (Lpm)	Rinse gpm (Lpm)
20 (1.4)	0.26 (0.98)	0.4 (1.5)	0.3 (1.1)	0.5 (1.9)	0.4 (1.5)	0.65 (2.5)
30 (2.1)	0.3 (1.1)	0.45 (1.7)	0.4 (1.5)	0.55 (2.1)	0.45 (1.7)	0.75 (2.8)
60 (4.2)	0.5 (1.9)	0.6 (2.3)	0.6 (2.3)	0.8 (3)	0.75 (2.8)	1 (3.8)
80 (5.6)	0.6 (2.3)	0.65 (2.5)	0.7 (2.6)	0.85 (3.2)	0.8 (3)	1.1 (4.2)
100 (7.0)	0.6 (2.3)	0.76 (2.9)	0.7 (2.6)	0.9 (3.4)	0.8 (3)	1.3 (4.9)

PSI (Kg/cm)	Q Injector		R Injector	
	Draw gpm (Lpm)	Rinse gpm (Lpm)	Draw gpm (Lpm)	Rinse gpm (Lpm)
20 (1.4)	0.4 (1.5)	0.9 (3.4)	0.45 (1.7)	1.2 (4.5)
30 (2.1)	0.5 (1.9)	0.95 (3.6)	0.5 (1.9)	1.3 (4.9)
60 (4.2)	0.82 (3.1)	1.4 (5.3)	0.9 (3.4)	1.75 (6.6)
80 (5.6)	0.9 (3.4)	1.6 (6)	1 (3.8)	2 (7.6)
100 (7.0)	0.95 (3.6)	1.8 (6.8)	1.1 (4.2)	2.2 (8.3)

■ Pressure Loss vs. Flow

PSI (Kg/cm)	Service (Cv 6.5)	Backwash (Cv 4.0)
	gpm (Lpm)	gpm (Lpm)
5 (0.35)	15 (56)	9 (34)
10 (0.70)	20 (76)	13 (49)
15 (1.00)	25 (95)	16 (61)
20 (1.40)	29 (109)	18 (68)
25 (1.70)	32 (121)	20 (76)
30 (2.10)	35 (132)	22 (83)



For More Information:

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