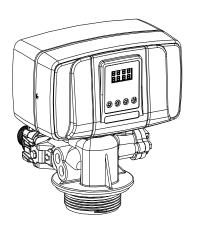


265 Series

Valve Operation Manual



Note:

- 1. Read all instructions carefully before operation.
- 2. Avoid pinched o-rings during installation by applying (provided with install kit) NSF certified lubricant to all seals.

TABLE OF CONTENTS

Water Softener Gallon Setting Chart	3
Introduction	5
Programming	5
General Valve Installation	
Start-up Instructions	7
System Configuration	
Power Head Exploded View	9
Power Head Parts List	10
Control Valve Exploded View	11
Control Valve Parts List	
Trouble Shooting	13
Warrantv	

арргоргіате д			our model	r model of v		.,									
@6lb/CF															
0.75 CF					Total Har	dness in G	rains per U	IS Gallon							
		10	15	20	25	30	35	40	45	50					
	1	1425	925	675	525	425	354	300	258	225					
	2	1350	850	600	450	350	279	225	183						
Number of	3	1275	775	525	375	275		•		_					
people	4	1200	700	450			_								
iving in the	5	1125	625		_										
nome	6	1050		_	Softener could	be undersized if	# of people and	hardness line up	in this shaded a	ea.					
	7	975			Consideration	may be given to	a larger size unit	t to meet your ne	eds.						
	8	900													
											_				
1.00 CF					Total Har	dness in G	rains per U	IS Gallon							
		10	15	20	25	30	35	40	45	50	55	60	65		
	1	1925	1258	925	725	592	496	425	369	325	289	258	233		
	2	1850	1183	850	650	517	421	350	294	250	214	183			
Number of	3	1775	1108	775	575	442	346	275							
people	4	1700	1033	700	500	367									
iving in the	5	1625	958	625											
home	6	1550	883		_		Softener coul	d be undersized	if # of people and	hardness line up	in this shaded ar	ea.			
	7	1475	808				Consideration	n may be given to	a larger size uni	to meet your nee	eds.				
	8	1400	733												
	9	1325													
	10	1250													
.50 CF	10	1250	15	20		dness in G		IS Gallon	45	50	55	60	T 65	70	75
1.50 CF	10		15 1925	20 1425	Total Har 25		rains per U 35		45 592	50 525	55 470	60	65	70	75 325
1.50 CF		10			25	30	35	40							
	1	10 2925	1925	1425	25 1125	30 925	782	40 675	592	525	470	425	387	354	325
Number of	1 2	10 2925 2850	1925 1850	1425 1350	25 1125 1050	925 850	782 707	40 675 600	592 517	525 450	470 395	425 350	387	354	325
Number of people	1 2 3	10 2925 2850 2775	1925 1850 1775	1425 1350 1275	25 1125 1050 975	925 850 775	782 707 632	675 600 525	592 517 442	525 450	470 395	425 350	387	354	325
Number of people living in the	1 2 3 4	2925 2850 2775 2700	1925 1850 1775 1700	1425 1350 1275 1200	25 1125 1050 975 900 825 750	925 850 775 700	782 707 632 557	675 600 525	592 517 442	525 450	470 395	425 350	387	354	325
Number of people living in the	1 2 3 4 5 6 7	10 2925 2850 2775 2700 2625 2550 2475	1925 1850 1775 1700 1625 1550 1475	1425 1350 1275 1200 1125 1050 975	25 1125 1050 975 900 825	925 850 775 700 625	782 707 632 557	675 600 525 450	592 517 442 367	525 450 375	470 395 320	425 350	387 312	354 279	325
Number of beople iving in the	1 2 3 4 5 6	2925 2850 2775 2700 2625 2550 2475 2400	1925 1850 1775 1700 1625 1550 1475	1425 1350 1275 1200 1125 1050 975 900	25 1125 1050 975 900 825 750	925 850 775 700 625	782 707 632 557	40 675 600 525 450	592 517 442 367	525 450 375 rsized if # of	470 395 320 people and h	425 350 275	387 312 up in this sha	354 279	325
Number of beople iving in the	1 2 3 4 5 6 7 8	2925 2850 2775 2700 2625 2550 2475 2400 2325	1925 1850 1775 1700 1625 1550 1475 1400	1425 1350 1275 1200 1125 1050 975	25 1125 1050 975 900 825 750	925 850 775 700 625	782 707 632 557	40 675 600 525 450	592 517 442 367	525 450 375 rsized if # of	470 395 320 people and h	425 350 275 ardness line (387 312 up in this sha	354 279	325
Number of people living in the	1 2 3 4 5 6	2925 2850 2775 2700 2625 2550 2475 2400	1925 1850 1775 1700 1625 1550 1475	1425 1350 1275 1200 1125 1050 975 900	25 1125 1050 975 900 825 750	925 850 775 700 625	782 707 632 557	40 675 600 525 450 Softener of	592 517 442 367	525 450 375 rsized if # of	470 395 320 people and h	425 350 275 ardness line (387 312 up in this sha	354 279	325
Number of people living in the	1 2 3 4 5 6 7 8	2925 2850 2775 2700 2625 2550 2475 2400 2325	1925 1850 1775 1700 1625 1550 1475 1400	1425 1350 1275 1200 1125 1050 975 900	25 1125 1050 975 900 825 750	925 850 775 700 625	782 707 632 557	40 675 600 525 450 Softener of	592 517 442 367	525 450 375 rsized if # of	470 395 320 people and h	425 350 275 ardness line (387 312 up in this sha	354 279	325
1.50 CF Number of people living in the home	1 2 3 4 5 6 7 8	10 2925 2850 2775 2770 2625 2550 2475 2440 2325 2250	1925 1850 1775 1770 1625 1550 1475 1400 1325 1250	1425 1350 1275 1200 1105 1050 975 900 825	25 1125 1050 975 9900 825 750 675	925 850 775 700 625 550	35 782 707 632 557 482	40 675 600 525 450 Softener of Considera	592 517 442 367 could be under	525 450 375 srsized if # of piven to a large	470 395 320 320 people and h	425 350 275 275 ardness line on meet your n	387 312 up in this sha eeds.	354 279 anded area.	325 250
Number of people iving in the nome	1 2 3 4 5 6 7 8 9	10 2925 2850 2775 2700 2625 2550 2475 2400 2325 2250	1925 1850 1775 1700 1625 1550 1475 1400 1325 1250	1425 1350 1275 1200 1125 1050 975 900 825	25 1125 1050 975 900 825 750 675	30 925 850 775 700 625 550 dness in G	35 782 707 632 557 482	40 675 600 525 450 Softener of Considera	592 517 442 367 could be under tion may be s	525 450 375 srsized if # of piven to a large	470 395 320 320 people and her size unit to	425 350 275 275 ardness line u o meet your n	387 312 up in this sha eeds.	354 279 aded area.	325 250 75
Number of leople iving in the lome	1 2 3 4 5 6 7 8 9	10 2925 2850 2775 2770 2625 2550 2475 2400 2325 2250	1925 1850 1775 1700 1625 1550 1475 1400 1325 1250	1425 1350 1275 1200 1125 1050 975 900 825	25 1125 1050 975 900 825 750 675 	30 925 850 775 700 625 550 dness in G 30 1258	35 782 707 632 557 482	40 675 600 525 450	592 517 442 367 could be under stion may be s	525 450 375 375 srsized if # of piven to a large 50 725	470 395 320 320 people and h per size unit to 55 652	425 350 275 ardness line u o meet your n	387 312 up in this sha eeds. 65	354 279 aided area.	325 250 250 75 458
Number of people iving in the nome	1 2 3 4 5 6 7 8 9 10	2925 2850 2775 2700 2625 2550 2475 2400 2325 2250 2475 2400 3925 3850	1925 1850 1775 1700 1625 1550 1475 1400 1325 1250	1425 1350 1275 1200 1125 1050 975 900 825 20 1925 1850	25 1125 1050 975 900 825 750 675 Total Har 25 1525 1450	30 925 850 775 700 625 550 dness in G 30 1258 1183	782 707 632 557 482 rains per U 35 1068 993	40 675 600 525 450	592 517 442 367 could be under tion may be s	525 450 375 375 srsized if # of piven to a large 50 725 650	470 395 320 people and h per size unit to 55 652 577	425 350 275 275 ardness line to meet your n	387 312 up in this sha eeds. 65 540 465	354 279 added area. 70 496 421	325 250 250 75 458 383
Number of people iving in the nome	1 2 3 4 5 6 7 8 9 10	10 2925 2850 2775 2700 2625 2550 2475 2440 2325 2250 10 10 3925 3925 3850 3775	1925 1850 1775 1770 1625 1550 1475 1440 1325 1250 15 15 15 15 1250	1425 1350 1275 1200 1125 1050 975 900 825 20 1925 1850 1775	25 1125 1050 975 900 825 7750 675 Total Har 25 1525 1450 1375	30 925 850 775 700 625 550 dness in G 30 1258 1183 1108	782 707 632 557 482 701 632 557 482 701 801 801 903 903 903	40 675 600 525 450	592 517 442 367 could be under tition may be s 45 814 739 664	525 450 375 375 srsized if # of piyven to a large 50 725 650 575	470 395 320 320 people and h type size unit to 55 652 577 502	425 350 275 ardness line to be meet your no 60 592 517 442	387 312 up in this sha eeds. 65	354 279 aided area.	325 250 250 75 458
Number of people iving in the nome	1 2 3 4 5 6 7 8 9 10	2925 2850 2775 2700 2625 2550 2475 2476 2420 2325 2250 10 3925 3850 3775 3770	1925 1850 1775 1770 1625 1550 1440 1325 1250 1550 1425 1250	1425 1350 1275 1200 1125 1050 975 900 825 20 1925 1850 1775 1770	25 1125 1050 975 900 825 750 675 Total Har 25 1525 1450 1375 1300	30 925 850 775 700 625 550 dness in G 30 1258 1183 1108 1103	782 707 632 557 482 35 1068 993 993 918 843	40 675 600 525 450 Softener of Considera Softener of Considera Softener of Considera 40 925 850 775 770 700	592 517 442 367 could be under the total may be selection may be selection may be selected at the total	525 450 375 375 srsized if # of piven to a large 50 725 650	470 395 320 people and h per size unit to 55 652 577	425 350 275 275 ardness line to meet your n	387 312 up in this sha eeds. 65 540 465	354 279 added area. 70 496 421	325 250 250 75 458 383
Number of seeple living in the nome	1 2 3 4 5 6 7 8 9 10	10 2925 2850 2775 2776 2700 2625 2550 2445 2440 2325 2250 10 3925 3850 3775 33700 3625	1925 1850 1775 1770 1625 1550 1470 1325 1250 1550 1440 1325 1250 1550 1440 1325 1250 2592 2517 2442 2367 2292	1425 1350 1275 1200 1125 1050 975 900 825 20 1925 1850 1775 1770 1625	25 1125 1050 975 900 825 750 675 	30 925 850 7775 700 625 550 dness in G 30 1258 1183 1108 1108 133 958	782 7782 707 632 557 482 735 1068 993 918 843 768	40 675 600 525 450	592 517 442 367 could be under tition may be s 45 814 739 664	525 450 375 375 srsized if # of piyven to a large 50 725 650 575	470 395 320 320 people and h type size unit to 55 652 577 502	425 350 275 ardness line to be meet your no 60 592 517 442	387 312 up in this sha eeds. 65 540 465	354 279 added area. 70 496 421	325 250 250 75 458 383
Number of seeple living in the nome	1 2 3 4 5 6 7 8 9 10	10 2925 2850 2775 2770 2625 2550 2475 2400 2325 2250 10 3925 3850 3775 3700 3625 3625 3625 3625 3625	1925 1850 1775 1770 1625 1550 1440 1325 1250 1550 1425 1250 1550 1425 1250 1250 2592 2592 2442 2367 2292 2217	1425 1350 1275 1200 1125 1050 975 990 825 20 1925 1850 1775 1700 1625 1550	25 1125 1125 1050 975 900 675 750 675 Total Har 25 1525 1450 1375 1300 1225	30 925 850 775 700 625 550 30 1258 1188 1033 1938 883	782 707 632 557 482 35 1068 993 993 918 843	40 675 600 525 450 Softener of Considera Softener of Considera Softener of Considera 40 925 850 775 770 700	592 517 442 367 could be under the total may be selection may be selection may be selected at the total	525 450 375 375 srsized if # of piyven to a large 50 725 650 575	470 395 320 320 people and h type size unit to 55 652 577 502	425 350 275 ardness line to be meet your no 60 592 517 442	387 312 up in this sha eeds. 65 540 465	354 279 added area. 70 496 421	325 250 250 75 458 383
Number of people iving in the home	1 2 3 4 5 6 7 8 9 10	10 2925 2850 2775 2770 2625 2550 24475 2400 2325 2250 10 3925 3850 3776 3770 3625 3550 3475	1925 1850 1775 1770 1625 1550 1475 1400 1475 1400 1325 1250 1550 1250 1250 2592 2517 2442 2367 2292 2217 2212 2142	1425 1350 1275 1220 1125 1125 1050 975 900 825 1925 1850 1775 1770 1625 1550	25 1125 1050 975 900 825 750 675 	30 925 850 775 770 625 550 dness in G 30 1258 1183 1108 1108 1033 958 883 808	782 7782 707 632 557 482 735 1068 993 918 843 768	40 675 600 525 450	592 517 442 367 could be under tition may be { 45 814 739 664 589 514	525 450 375 375 srsized if # of 725 650 575 500	470 395 320 people and h per size unit to 55 652 577 502 427	425 350 275 ardness line on meet your n 60 592 517 442 367	387 312 up in this sha eeds. 65 540 465 390	354 279 279 496 421 346	325 250 250 75 458 383
Number of people iving in the home	1 2 3 4 5 6 7 8 9 10	10 2925 2850 2775 2770 2625 2550 2475 2400 2325 2250 10 3925 33850 3775 3700 3625 3550 3475 3476	1925 1850 1775 1770 1625 1550 1475 1475 1400 1325 1250 1550 1475 1420 1325 1250 1250 2592 2217 2242 2217 2217 2217 2217	1425 1350 1275 1200 1125 1050 975 900 825 20 1925 1925 1775 1700 1625 1550 1475 1475	25 1125 1125 1050 975 900 825 750 675 1525 1450 1375 1300 1225 1150 1000	30 925 850 775 700 625 550 30 1258 1188 1033 1938 883	782 7782 707 632 557 482 735 1068 993 918 843 768	40 675 600 525 450	592 517 442 367 could be under tion may be s 45 814 739 664 589 514	525 450 375 375 srsized if # of of of or	470 395 320 people and h per size unit to 55 652 427	425 350 275 ardness line to meet your no 60 592 517 442 367	387 312 up in this sha eeds. 65 540 465 390	354 279 279 496 421 346	325 250 250 75 458 383
Number of people living in the home	1 2 3 4 5 6 7 8 9 10	10 2925 2850 2775 2770 2625 2550 24475 2400 2325 2250 10 3925 3850 3776 3770 3625 3550 3475	1925 1850 1775 1770 1625 1550 1475 1400 1475 1400 1325 1250 1550 1250 1250 2592 2517 2442 2367 2292 2217 2212 2142	1425 1350 1275 1220 1125 1125 1050 975 900 825 1925 1850 1775 1770 1625 1550	25 1125 1050 975 900 825 750 675 	30 925 850 775 770 625 550 dness in G 30 1258 1183 1108 1108 1033 958 883 808	782 7782 707 632 557 482 735 1068 993 918 843 768	40 675 600 525 450	592 517 442 367 could be under tion may be s 45 814 739 664 589 514	525 450 375 375 srsized if # of of of or	470 395 320 people and h per size unit to 55 652 427	425 350 275 ardness line on meet your n 60 592 517 442 367	387 312 up in this sha eeds. 65 540 465 390	354 279 279 496 421 346	325 250 250 75 458 383

		elect the ch													
ppropriate g	allon se	etting rfor y	our model												
@10lb/CF															
0.75 CF					Total Har	dness in G	rains per U	S Gallon			7				
		10	15	20	25	30	35	40	45	50					
	1	1950	1275	938	735	600	504	431	375	330					
	2	1875	1200	863	660	525	429	356	300						
Number of	3	1800	1125	788	585	450				_					
people	4	1725	1050	713			_								
living in the	5	1650	975												
home	6	1575			Softener could	be undersized if	# of people and	hardness line up	in this shaded ar	ea.					
	7	1500			Consideration	may be given to	a larger size unit	to meet your nee	eds.						
	8	1425													
														_	
.00 CF		10	15	20	1 otal Har	dness in G		S Gallon 40	45	50	55	60	65		
	1	2625	1725	1275	1005	825	35 696	600	525	465	416	375	340	-	
	2	2550	1650	1275	930	750	621	525	450	390	341	300	340	-	
Number of	3	2475	1575	1125	855	675	546	450	+50	330	1341	300	_		
number of people	4	24/5	1500	1050	780	600	340	1-100	_						
iving in the	5	2325	1425	975		1000	_								
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	8	2100	1275									Note.			
							Consideration	n may be given to				Cut.			
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1.50 CF	8 9 10	2100 2025 1950 10 3975	1200 15 2625	1950	25 1545	30 1275	rains per U	S Gallon 40 938	a larger size unit	50 735	55 661	60	548	504	465
	8 9 10	2100 2025 1950 1960 10 3975 3900	1200 15 2625 2550	1950 1875	25 1545 1470	1275 1200	rains per U 35 1082 1007	S Gallon 40 938 863	a larger size unit	50 735 660	55 661 586	60 600 525			
Number of	8 9 10	2100 2025 1950 1960 10 3975 3900 3825	15 2625 2550 2475	1950 1875 1800	25 1545 1470 1395	1275 1200 1125	rains per U 35 1082 1007 932	S Gallon 40 938 863 788	45 825 750 675	50 735	55 661	60	548	504	465
Number of people	1 2 3 4	2100 2025 1950 1960 3975 3900 3825 3750	15 2625 2550 2475 2400	1950 1875 1800 1725	25 1545 1470 1395 1320	1275 1200 1125 1050	rains per U 35 1082 1007 932 857	S Gallon 40 938 863	a larger size unit	50 735 660	55 661 586	60 600 525	548	504	465
Number of people living in the	1 2 3 4 5	2100 2025 1950 1950 10 3975 3900 3825 3750 3675	15 2625 2550 2475 2400 2325	1950 1875 1800 1725 1650	25 1545 1470 1395 1320 1245	1275 1200 1125 1050 975	rains per U 35 1082 1007 932	S Gallon 40 938 863 788	45 825 750 675	50 735 660	55 661 586	60 600 525	548	504	465
Number of people living in the	1 2 3 4	2100 2025 1950 1960 3975 3900 3825 3750	15 2625 2550 2475 2400	1950 1875 1800 1725	25 1545 1470 1395 1320	1275 1200 1125 1050	rains per U 35 1082 1007 932 857	S Gallon 40 938 863 788 713	45 825 750 675	50 735 660 585	55 661 586 511	60 600 525 450	548 473	504 429	465
Number of people living in the	1 2 3 4 5 6	2100 2025 1950 1960 10 3975 3900 3825 3750 3675 3600	15 2625 2550 2475 2400 2325 2250	1950 1875 1800 1725 1650 1575	25 1545 1470 1395 1320 1245 1170	1275 1200 1125 1050 975	rains per U 35 1082 1007 932 857	S Gallon 40 938 863 788 713	45 825 750 675 600	50 735 660 585	55 661 586 511	60 600 525 450	548 473 up in this sha	504 429	465
Number of people living in the	1 2 3 4 5 6	2100 2025 1950 1950 10 3975 3900 3825 3750 3675 3600 3525	15 2625 2550 2475 2400 2325 2250 2175	1950 1875 1800 1725 1650 1575	25 1545 1470 1395 1320 1245 1170	1275 1200 1125 1050 975	rains per U 35 1082 1007 932 857	S Gallon 40 938 863 788 713	45 825 750 675 600	50 735 660 585	55 661 586 511	60 600 525 450	548 473 up in this sha	504 429	465
Number of people living in the	1 2 3 4 5 6 7	2100 2025 1950 1950 3975 3900 3825 3750 3675 3600 3525 3450	15 2625 2550 2475 2400 2325 2250 2175 2100	1950 1875 1800 1725 1650 1575 1500 1425	25 1545 1470 1395 1320 1245 1170	1275 1200 1125 1050 975	rains per U 35 1082 1007 932 857	S Gallon 40 938 863 788 713	45 825 750 675 600	50 735 660 585	55 661 586 511	60 600 525 450	548 473 up in this sha	504 429	465
Number of people living in the	1 2 3 4 5 6 7 8	2100 2025 1950 10 3975 3975 3900 3825 3750 3675 3600 3525 3450 3450 3375	15 2625 2550 2475 2400 2325 2250 2175 2100 2025	1950 1875 1800 1725 1650 1575 1500 1425	25 1545 1470 1395 1320 1245 1170	1275 1200 1125 1050 975	rains per U 35 1082 1007 932 857	S Gallon 40 938 863 788 713	45 825 750 675 600	50 735 660 585	55 661 586 511	60 600 525 450	548 473 up in this sha	504 429	465
1.50 CF Number of people living in the home	1 2 3 4 5 6 7 8	2100 2025 1950 10 3975 3975 3900 3825 3750 3675 3600 3525 3450 3450 3375	15 2625 2550 2475 2400 2325 2250 2175 2100 2025	1950 1875 1800 1725 1650 1575 1500 1425	25 1545 1470 1395 1320 1245 1170 1095	30 1275 1200 1125 1050 975 900	rains per U 35 1007 1007 932 857 782	S Gallon	45 825 750 675 600	50 735 660 585	55 661 586 511	60 600 525 450	548 473 up in this sha	504 429	465
Number of people living in the	1 2 3 4 5 6 7 8	2100 2025 1950 1950 10 3975 3990 3825 3750 3675 3600 3525 3450 3375 3375 3390	15 2625 2550 2475 2400 2325 2250 2175 2100 2025 1950	1950 1875 1800 1725 1650 1575 1500 1425 1350	25 1545 1470 1395 1320 1245 1170 1095	1275 1200 1125 11050 975 900	rains per U 35 1082 1007 932 857 782	S Gallon 40 938 863 788 713 Softener of Considera	45 825 750 675 600 ould be under	50 735 660 585 rsized if # of piven to a large	55 661 586 511 people and h	60 600 525 450 ardness line o meet your r	548 473 up in this sha	504 429 ded area.	465 390
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Number of people living in the home	8 9 10 1 2 3 4 5 5 6 7 8 9 10	2100 2025 1950 1950 10 3975 3975 3900 3825 3750 3600 3525 3350 3375 3300	15 2625 2550 2475 2400 3325 2250 2175 2100 2025 1950	1950 1875 1800 1725 1650 1575 1500 1425 1350	25 1545 1470 1395 1320 1245 1170 1095	30 1275 1200 1125 1050 975 900	Trains per U 35 1082 1007 932 857 782 136 1468	S Gallon 40 938 863 788 713 Softener of Considera 40 1275	45 825 750 675 600 ould be under tion may be g	50 735 660 585 sized if # of piyen to a largent to a larg	55 661 586 511 people and h	60 600 525 450 450 ardness line o meet your r	548 473 up in this shaleeds. 65	504 429 ded area.	465 390 75 645
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15lb/CF															
.75 CF					Total Har	dness in G	rains per U	S Gallon							
		10	15	20	25	30	35	40	45	50					
	1	2175	1425	1050	825	675	568	488	425	375					
	2	2100	1350	975	750	600	493	413	350						
umber of	3	2025	1275	900	675	525									
eople	4	1950	1200	825											
ing in the	5	1875	1125												
ome	6	1800							in this shaded ar	ea.					
	7	1725	_		Consideration	may be given to	a larger size unit	to meet your ne	eds.						
	8	1650													
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	1	2925	1925	1425	1125	925	782	675	592	525	470	425	387	7	
	2	2850	1850	1350	1050	850	707	600	517	450	395	350			
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eople	4	2700	1700	1200	900	700									
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	7	2475	1475				Consideration	may be given to	a larger size unit	to meet your nee	eds.				
	8	2400	1400												
	9	2325													
	10	2250													
		2200													
.50 CF			15	20		dness in G			45	50	55	60	65	70	75
.50 CF		10	15 2925	20	25	30	35	40	45	50 825	55 743	60	65	70 568	75
.50 CF	1 2	10 4425	15 2925 2850	20 2175 2100					45 925 850	50 825 750	55 743 668	60 675 600	65 617 542	568	525
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lumber of	1 2	10 4425 4350	2925 2850	2175 2100	25 1725 1650	30 1425 1350	35 1211 1136	1050 975	925 850	825 750	743 668	675 600	617	568	525
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Introduction

This valve is controlled with simple, user-friendly electronics displayed on a LCD screen. The main page displays the current time and the remaining gallons in meter mode or the remaining days in calendar clock mode.

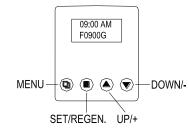


Figure 1. Valve Display

System Initialization

When power is supplied to the control, the screen will display TIME OF DAY AND DEFAULT GALLON SETTING. If the valve is not in service it will read "CANATURE" while the valve returns to the service position.

Programming

- 1. Press ' \square ' to enter programming. If the system has been inactive, you may have to hold and press ' \square ' until you hear a beep to unlock the display screen. Press ' \blacktriangle ' or ' \blacktriangledown ' to select which setting to modify.
- 2. To change setting, press ' '. When the display flashes, the value may be changed. Press ' 本' or '▼' to change the value. Press ' ' to accept the value.
- 3. Press ' ' to return to previous menu.

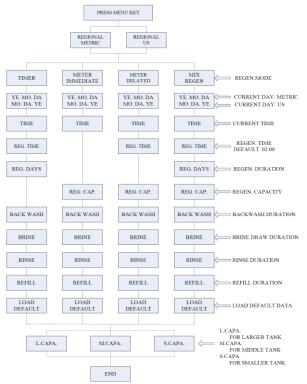


Figure 2. Program Flow Chart

Program Options

Depending on the current option settings, some parameters cannot be viewed or set.

	Program Mode		
PARAMETER		OPTIONS	DESCRIPTION
1	REGIONAL	METRIC	This option controls whether cubic meters or US gallons is used for the volume display and the format of the day, year, and month.
		US	
2	REGENERATION MODE	METER DELAYED	This is the most common setting. When the volume remaining reaches zero gallons, the system will initiate a regeneration at the next pre-set regeneration time.
		METER IMMEDIATE	The unit will initiate a regeneration immediately after the volume remaining reaches zero.
		TIMER	The unit will initiate a regeneration at the next pre-set regeneration time based on the interval of days between regeneration days.
		MIX REGEN	Meter initiated with Day Override. When the volume remaining reaches zero gallons, the system will initiate a regeneration at the next pre-set regeneration time. If the days between regeneration is reached before the remaining volume reaches zero, the system will override the meter setting and initiate a regeneration.
4	DATE		Set date of installation. This value is fixed and does not change.
5	TIME		Set current time.
6	REG TIME		This setting controls the time of day when a regeneration cycle will start.
7	REG. DAYS		The user can manually enter values for regeneration day intervals.
8	REG. CAP.		The user can manually enter values system capacity.
9	BACKWASH		This option controls the length of time in minutes for the unit to clean the bed by reversing the flow of water upwards through the bed and out to the drain.
10	BRINE		This option controls the length if time in minutes for the unit to draw regenerant (brine for softeners) from the second tank and slowly rinse it from the top to bottom of the tank.
11	RINSE		This option controls the length of time to give the tank a final rinse from the top to the bottom in order remove any last traces of the regenerant (brine) from the tank.
12	REFILL		This option controls the length of time the brine valve will open to refill the second tank (brine tank for softeners) with water in order to produce the regenerate solution (brine for softeners) for the next regeneration cycle. The water is accurately measured through the valves brine line flow control to make a precise quantity of regenerant solution.
13	LOAD DEFAULT	L.CAPA.	It is not recommended to use any of these options. The function of this option is to load pre-set values of BACKWASH, BRINE, RINSE, and REFILL for large, medium, and small capacity systems. We recommend to use the settings as specified in the SYSTEM CONFIGURATION section of this manual.
		M.CAPA	
		S.CAPA	

Figure 3. Program Options

Manual Regeneration (Delayed or Immediate)

If screen is locked, press "MENU" for 3 seconds to unlock. To initiate an immediate regeneration, press the SET / REGEN button for 3 seconds, an option for delayed or immediate regeneration will appear. Press the SET / REGEN button again and delayed will begin flashing, press the down arrow button to have immediate flash, press the SET / REGEN button and then press the menu button and the valve will immediately start into manual regeneration.

To initiate a delayed regeneration, press the SET / REGEN button for 3 seconds, then press the menu button and a regeneration will be queued to the next pre-set regeneration time (2:00 a.m.).

Water Pressure	Minimum 25 PSI
Electrical Supply	Uninterrupted 115V AC
Existing Plumbing	Free of any deposits or build-ups inside pipes.
Softener Location	Locate close to drain and connect according to plumbing codes
Bypass Valves	Always provide for bypass valve if unit is not equipped with one.
Plumbing	Softener and or other water treatment equipment should be installed to local plumbing codes

\wedge	CAUTION
	Do not exceed 120 psi water pressure.
	■ Do not exceed 110°F water temperature.
	 Do not subject unit to freezing conditions.

Installing the Bypass valve

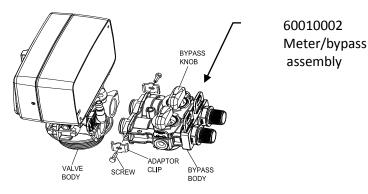


Figure 4. Bypass Assembly View

- 1. Locate the softener tank and brine tank close to a drain where the system will be installed. The surface should be clean and
- 2. Perform all plumbing according to local plumbing codes.
 - Use a ½" minimum pipe or tubing size for the drain line
 - Use a ¾" pipe or tubing for backwash flow rates that exceed 7 gpm or length that exceeds 20ft (6 m)
 - ON COPPER PLUMBING SYSTEMS BE SURE TO INSTALL A GROUNDING WIRE BETWEEN THE INLET AND OUTLET PIPING TO MAINTAIN GROUNDING.
- 3. Any solder joints near the valve must be done before connecting any piping to the valve. Always leave at least 6" (152 mm) between the valve and joints when soldering pipes that are connected to the valve. Failure to do this could cause damage to the valve.
- 4. If the valve is not installed on the tank, cut the 1" central pipe flush with top of each tank. Lubricate the large o-ring on the valve that seals against the tank. Screw the valve on to the tank. Be careful to not cross thread the valve into the tank. Only use silicone lubricant.
- 5. Connect the drain line to the valve.
- 6. Connect the brine line from the valve to the air check / safety elbow as per figure 8. Double check to make sure all connections are assembled correctly and the brass and plastic nuts are tight and secure to prevent leaks.
- 7. Add water until there is approximately 1" (25 mm) of water above the grid plate. If the tank does not have a grid, add water until it is above the air check in the brine tank. Do not add salt to the brine tank at this time.
- 8. Place the unit in the bypass position.
- 9. Slowly turn on the main water supply.

10. At the nearest cold treated water tap nearby remove the faucet screen, open the faucet and let water run a few minutes or until the system is free of any air or foreign material resulting from the plumbing work. Close the water tap when water runs clean, then proceed to start up instructions.

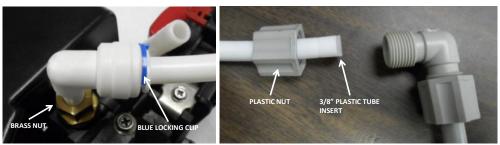


Figure 8. Brine Line Connections View

Start-up Instructions

- 1. Plug the valve into an approved power source.
- 2. When power is supplied to the control, the screen will display TIME OF DAY AND DEFAULT GALLON SETTING. If the valve is not in service it will read "CANATURE" while the valve returns to the service position.
- 3. If the system has been in active, you may have to hold and press '¹ until you hear a beep to unlock the display screen. Press " ¹ " to initiate a manual regeneration and advance the valve to the Backwash position. Open the inlet on the bypass valve slowly and allow water to enter the unit. Allow all air to escape from the unit before turning the water on fully then allow water to run to drain for 3-4 minutes or until all media fines are washed out of the softener or filter.
- 4. Press the "\(^{\textstyle 1}\)" to advance to the BRINE position. Check the water level in the brine tank to insure the valve is drawing brine properly.
- 5. Press the " " to advance to the RINSE position. Check the drain line flow. Allow the water to run for 3-4 minutes or until the water is clear.
- 6. Press the " " to advance to the REFILL position. Check that the valve is filling water into the brine tank. Allow the valve to refill for the correct amount of time as displayed on the screen to insure a proper brine solution for the next regeneration.
- 7. Press the " " to advance to the SERVICE position. Open the outlet valve to the bypass, then open the nearest treated water faucet and allow the water to run until clear, close the tap and replace the faucet screen.
- 8. Put salt into the brine tank.

Control Operation During A Power Failure

In the event of power failure, the valve will keep track of the time and day for 48 hours. The programmed settings are stored in a non-volatile memory and will not be lost during a power failure. If power fails while the unit is in regeneration, the valve will return to the service position once power is restored. If the valve misses a scheduled regeneration due to a power failure, it will queue a regeneration at the next regeneration time once power is restored.

System Configuration

		SYSTEM CAPA	CITY (GRAINS)		CYCLE TIME (MINUTES)			REFILL TIME (MINUTES) @ 0.70 GPM BLFC			
RESIN VOLUME	@ 15 lbs/cu ft	@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft	BACKWASH	BRINE/RINSE	RINSE	@ 15 lbs/cu ft	@ 10 lbs/cu ft	@ 6 lbs/cu ft (Factory Setting)	@ 3 lbs/cu ft
0.75	22,500	19,875	16,500	10,500	10.0	60.0	10.0	6.0	4.0	2.0	1.1
1.00	30,000	26,500	22,000	14,000	10.0	60.0	10.0	7.0	5.0	3.0	1.5
1.50	45,000	39,750	33,000	21,000	10.0	60.0	10.0	11.0	7.0	5.0	2.0
2.00	60,000	53,000	44,000	28,000	10.0	60.0	10.0	14.0	10.0	6.0	3.0
3.00	90,000	79,500	66,000	42,000	10.0	60.0	10.0	21.0	14.0	9.0	4.3

Figure 5. Valve Cycle Settings

Injector and Drain Line Flow Control

Sugge	ested Softener \	Valve Configuration			
Tank Siza (Diamotor)	Injector Set	Brine Line Flow	Drain Line Flow		
Tank Size (Diameter)	Injector Set	Control (BLFC)	Control (DLFC)		
6"	#000 Brown				
7"	#000 BIOWII		#1 (1.5 GPM)	Suggested Filter Va	lve Configuration
8"				Tonk Size (Diameter)	Drain Line Flow
9"	#1 White		#2 (2.0 GPM)	Tank Size (Diameter)	Control (DLFC)
10"		(0.70 GPM)	#3 (2.4 GPM)	8"	#4 (3.5 GPM)
12" 13"	#2 Blue		#4 (3.5 GPM) #6 (4.0 GPM)	9"	#6 (4.0 GPM)
14"			#6 (4.0 GPM) #7 (5.0 GPM)	10"	#7 (5.0 GPM)
16"	#3 Yellow		none	12"	none

Suggested Iron Filter Valve Configuration								
Tank Size (Diameter)	Injector	Brine Line Flow	Drain Line Flow					
Talik Size (Diameter)	Injector	Control (BLFC)	Control (DLFC)					
8"			#4 (3.5 GPM)					
9"	#2 Dlug (D)(C)	(0.70.CDM)	#6 (4.0 GPM)					
10"	#2 Blue (PVC)	(0.70 GPM)	#7 (5.0 GPM)					
12"			none					

Figure 6. Valve Configurations

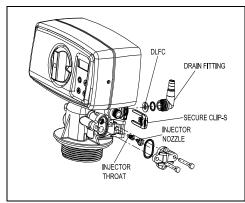
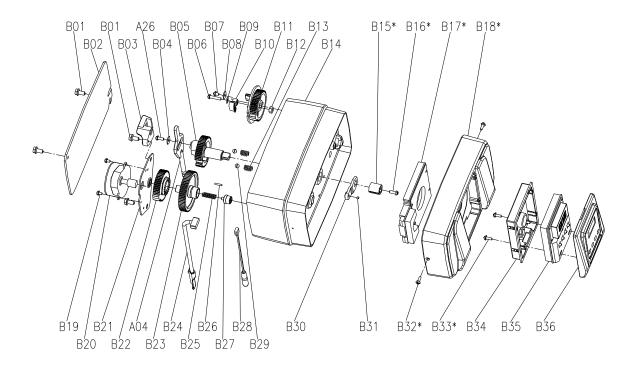


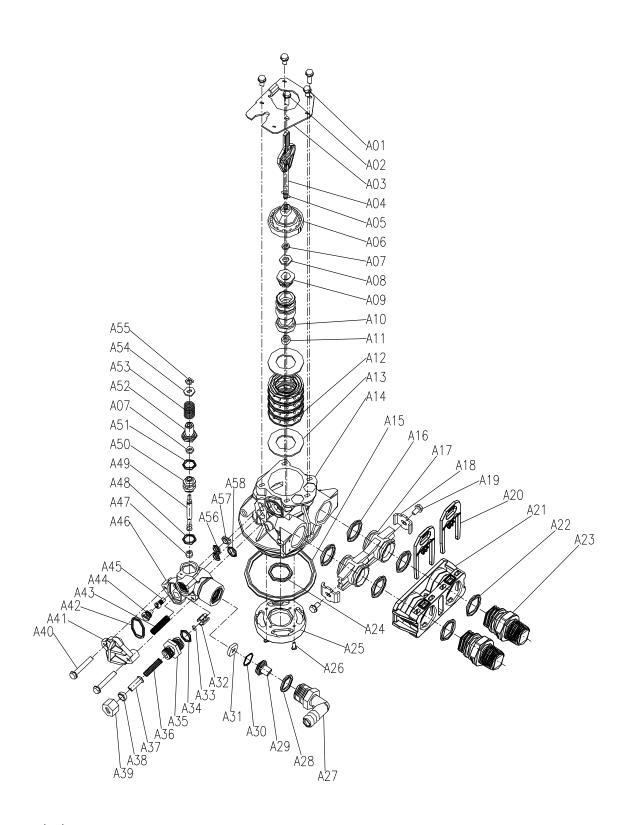
Figure 7.Injector Assembly



See parts listing on next page (11)

Power Head Parts List

Item No.	Part No.	Part Description	Quantity
B01	5056136	Screw-ST3.5x13(Hexagon with Washer)	4
B02	5056014	Bnt65 Back Cover	1
B03	5010045	Piston Stem Holder	1
A26	13000426	Screw-ST2.9×13(Large Wafer)	1
B04	5056139	Washer-3x13	1
B05	5056005	Main Gear	1
B06	5056083	Screw-M4x14	1
B07	5056166	Screw-ST4.2×12(Large Wafer)	1
B08	5056141	Washer-4x12	1
B09	13111004	Washer-4x9	1
B10	5056016	Refill Regulator	1
B11	5056015	Brine Gear	1
B12	5056089	Nut-M4	1
B13	5056095	Spring Detent	2
B14	5056001	Bnt65 Housing	1
B15	5056554	Locking Knob	1
B16	5056561	Screw-ST3.5×15(CSK)	1
B17	5056556	Bnt265 Main Pcb	1
	5056557	Bnt265 Wiring Harness	1
B18	5056551	Bnt265 Front Cover	1
	5056506	Bnt165 Regen. Label	1
B19	5056082	Screw-M3×5	2
B20	5056510	Motor-12v/2rpm	1
	11700005	Wire Connector	2
B21	5056045	Motor Mounting Plate	1
B22	5056501	Bnt165 Drive Gear	1
A04	5010081	Bnt65 Piston Rod	1
B23	5056002	Idler Gear	1
B24	5010031	Meter Assembly	1
	5010046	Meter Strain Relief	1
B25	5056094	Spring Idler	1
B26	5056098	Motor Pin	1
B27	5056502	Spring Retainer	1
B28	5056507	Bnt165 Power Cable	1
	5056013	Bnt65 Power Strain Relief	1
B29	5056092	Ball-1/4inch	2
B30	5056503	Magnet Holder	1
B31	5010023	Magnet-φ3×2.7	1
B32	5056509	Screw-ST2.9×10(CSK)	2
B33	5010037	Screw-ST2.9×10	2
B34	5056553	Bnt265 Controller Housing	1
B35	5056555	Bnt265 Display	1
B36	5056552	Bnt265 Controller Cover	1



See parts listing on next page (13)

Item No.	PartNo.	Part D iscription	Q uan tity
A 0 1	05056087	Screw-M 5×12 (Hexagon)	3
A 02	05056088	Screw-M5×16 (Hexagon with Washer)	2
A 03	05056047	End Plug Retainer	1
A 0 4	05010081	Bnt65 Piston Rod	1
A 05	05056097	P is ton P in	1
A 06	05056023	End P lug	1
A 07	05056070	Quad Ring	2
A 08	05056024	End Plug W asher	1
A 09	05056022	P iston R etainer	1
A 10	05056181	Piston (Electrical)	1
A 1 1	05056104	Muffler	1
A 12	05056021	Spacer	4
A 13	05056073	Seal	5
A 14	05056019	Bnt65 Valve Body	1
A 15	05056063	0 -ring-φ78.74×5.33	1
A 16	05056129	0 -ring-423 ×3	4
A 17	05056025	Adaptor Coupling	2
A 18	05056044	Adaptor Clip	2
A 19	05056090	Screw-ST4.2×3 (Hexagon with Washer)	2
A 20	21709003	Secure C lip	2
A 21	05056140	Valve Connector	1
A 22	05056065	0 -ring-\psi2.6\times.65	2
A 23	21319006	Screw Adaptor	2
A 24	26010103	0 -ring-\psi_5 \times_55	1
A 25	07060007	Valve Bottom Connector	1
A 26	13000426	Screw-ST2.9×3 (Large W afer)	2
A 27	05056038	Drain Fitting	1
A 28	26010003	0 -R ing-Φ18 × 2.65	1
A 29	05056036	DLFC Button Retainer	1
A 30	05056079	0 −R ing−φ15×0.8	1
A 31	05056143	DLFC-2#	1
A 32	05056035	BLFC Button Retainer	1
A 33	05056191	BLFC-2#	1
A 34	05056191	0 -R ing-\$14 \times .8	1
A 35	05056100B	BLFC Fitting	1
A 36	05056106	Brine Line Screen	1
A 37	05056100	BLFC Tube Insert	1
			1
A 38	05056033 05056108	BLFC Femule	
A 39		BLFC Fitting Nut	1
A 40	05056086	Screw -M 5 × 30 (Hexagon with Washer)	2
A 41	05056029	hjector Cover	1
A 42	05056072	0 R ing-d24 X	1
A 43	05056103	Injector Screen	1
A 44	05056027	In jector Nozzle	1
A 45	05056028	In ctor Throat	1
A 46	05056177	In jector Body	1
A 47	05056075	Injector Seat	1
A 48	05056134	0 -R ing-ф12×2	1
A 49	05056054	Injector S tem	1
A 50	05056031	In jector Spacer	1
A 51	05056081	0 -R ing-φ12.5 ×1.8	1
A 52	05056030	In jector C ap	1
A 53	05056093	In jector S creen	1
A 54	05010049	SpecialW asher	1
A 55	05056105	Retaining Ring	1
A 56	05056067	0 -R ing-φ7.8 ×1.9)	2
A 57	05056037	A ir D isperser	1
A 58	05056066	0 -R ing-φ11 ×2	1

Trouble Shooting

Issue	Possible Cause	Possible Solution
A. Unit fails to initiate a	1. No power supply.	Check electrical service, fuse, etc.
regeneration cycle.	2. Defective circuit board.	Replace faulty parts.
	3. Power failure.	Reset time of day.
B. Water is hard.	1. By-pass valve open.	Close by-pass valve.
	2. Out of salt.	Add salt to tank.
	3. Plugged injector / screen.	Clean parts.
	4. Flow of water blocked to brine tank.	Check brine tank refill rate.
	5. Hard water in hot water tank.	Repeat flushing of hot water tank required.
	6. Leak between valve and central tube.	Check if central tube is cracked or o-ring is damaged. Replace faulty parts.
	7. Internal valve leak.	Replace valve seals, spacer, and piston assembly.
C. Salt use is high.	1. Refill time is too high.	Check refill time setting.
D. Low water pressure.	1. Iron or scale build up in line feeding unit.	Clean pipes.
	2. Iron build up inside valve or tank.	Clean control and add resin cleaner to clean bed. Increase regeneration frequency.
	3. Inlet of control plugged due to foreign material.	Remove piston and clean control valve.
E. Resin in drain line.	1. Air in water system.	Check well system for proper air eliminator control.
	2. Incorrect drain line flow control (DLFC) button.	Check for proper flow rate.
F. Too much water in brine tank.	Plugged injector or screen.	Clean parts.
	2. Valve not regenerating.	Replace circuit board, motor, or control.
	3. Foreign material in brine valve.	Clean parts.
G. Unit fails to draw brine.	1. Drain line flow control is plugged.	Clean parts.
	2. Injector or screen is plugged.	Clean parts.
	3. Inlet pressure too low.	Increase pressure to 25 PSI.
	4. Internal valve leak.	Replace seals, spacers, and piston assembly.
H. Valve continuously cycles.	Defective position sensor PCB.	Replace faulty parts.
I. Flow to drain continuously.	1. Valve settings incorrect.	Check valve settings.
	2. Foreign material in control valve.	Clean control.
	3. Internal leak.	Replace seals, spacers, and piston assembly.

Manufacturers Warranty

Canature North America Inc. warrants that your control valve is built of quality material and workmanship. When properly installed and maintained, it will give years of trouble free service.

Five Year Complete Parts Warranty:

Canature North America Inc. will replace any part which fails within 60 months from date of manufacture, as indicated by the serial number, provided the failure is due to a defect in material or workmanship. The only exception shall be when proof of purchase or installation is provided and then the warranty period shall be from the date thereof.

General Provisions:

Canature North America Inc. assumes no responsibility for consequential damage, labour or expense incurred as a result of a defect or for failure to meet the terms of this warranty because of circumstances beyond its control.

