

### ***E SERIES ELECTRONIC DEMAND/METERED STAGER CONTROLLER PART NUMBER MATRIX***

**FILL IN PROPER DESIGNATIONS TO DETERMINE PRODUCT NUMBER:**

CONTROLLER      ELECTRONIC CONTROLLER SERIES

9 = 962 (Battery Backup Capable) \*

\* Battery Backup Capable with standard 9-volt battery—battery not included.

STAGER      ROTARY PILOT STAGER SERIES

48 = 6-Port (Brass)

51 = 8-Port (Brass)

58 = 16-Port (PVC)

<u>PROGRAM</u>	<u>STAGER PROGRAM</u>
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**NOTE: See following pages for  
Program details.**

\* 00 to 99 = Standard

\*\* SS = Special Per Drawing Indicated

TA = Twin Alternating Softener with Service Lights on Front Panel

\*\*\* TB = Twin Alternating Softener with Timed Brine Position & Switch Output  
-OR- Twin Alternating Filter Skipping Steps 2,3,7 & 8

\*\*\* TR = Twin Alternating Softener with Timed Refill Position & Switch Output

\* 2-character designation from standard stager drawing.

\*\* Special drawing number placed in last 5 digits of product number.

\*\*\* Tank In Service is indicated via the 6-digit display of the 962 controller.

ENCLOSURE      NEMA RATING OF PANEL & ENCLOSURE

F = NEMA 4X Fiberglass Panel & Enclosure

ELECTRICAL      POWER REQUIRED TO OPERATE DEVICE (Field Configurable)

1 = 115V/50 or 60Hz

2 = 220V/50 or 60Hz

1st AUX SWITCH	FIRST EXTRA SWITCH ON ROTARY PILOT STAGER (Unless Special Drawing Number Is Assigned)
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S = Service Return (Homing) (NOT for 58-TA Stagers)

W = Status Lights Cam (For 58-TA Stagers Only)

2nd AUX SWITCH      SECOND EXTRA SWITCH ON ROTARY PILOT STAGER  
(Unless Special Drawing Number Is Assigned)

0 = NONE (NOT Valid for 58-TA or 58-TB Stagers)

\* A to R = Cam Position Switch Active (I & O not used)

\*\* S = Service Return (Homing) (For 58-TA Stagers Only)

T = Timed Switch Output (For 58-TB & 58-TR Stagers Only)

\* Use a letter to indicate cam position, NOT a number.

\*\* Option S is standard on 58-TA Stagers only.

PRESSURE      PROGRAM OF STAGER (Unless Special Drawing Number Is Assigned)

0 = Standard (Vent to Open)

1 = Inverted (Pressure to Open)

[illegible]

0 = None

R = Relay Output Option (For Single Tank & Twin Alternating Only)  
(Provides a dry or powered set of contacts during Service/Regeneration)  
SPDT

Coil: 12 VAC

Contacts: 15A/120VAC/28VDC, 10A/240VAC

NOTE: Relay also sold as Kit P/N QA-1077737. Kit includes (1) Relay, (1) Socket, Mounting Hardware.

STAGER

REVISION (Unless Special Drawing Number Is Assigned)

B = 48 & 51 Series Stagers

C = 58 Series Stagers

## SERIES 48 STANDARD STAGER PROGRAMS

STAGER PROGRAM	# POS.		PORTS VENTED IN POSITION						REF. DWG NO.	FUNCTION
			0	1	2	3	4	5		
			A	B	C	D	E	F		
<b>00</b>	4	POSITION	SVC	—	BW	—	BSR	FR	4800PRGM	4 POS. SOFTENER
		PORTS VENTED	1, 2	—	3, 4	—	5, 6	1, 6		
<b>01</b>	3	POSITION	SVC	—	BW	—	—	FR	4801PRGM	3 POS. FILTER
		PORTS VENTED	1, 2	—	3, 4	—	—	1, 6		
<b>03*</b>	4	POSITION	SVC	—	BW	—	BSR	FR	4803PRGM	4 POS. SOFTENER (BUTTERFLY CAM)
		PORTS VENTED	1, 2	—	3, 4	—	5, 6	1, 6		
<b>04*</b>	2	POSITION	SVC	—	BW	—	—	—	4804PRGM	2 POS. FILTER
		PORTS VENTED	1, 2	—	3, 4	—	—	—		
<b>12*</b>	4	POSITION	SVC	—	BW -or- ASC	BSR -or- BW	—	FR	4812PRGM	4 POS. FILTER W/ AIR SCOUR or 4 POS. UPFLOW SOFTENER
		PORTS VENTED	1, 2	—	3, 4	4, 5	—	1, 6		
<b>83</b>	4	POSITION	BW2	BW3	—	—	SVC	BW1	4883PRGM	3 TANK SEQUENTIAL FILTER
		PORTS VENTED	2	3	—	—	6	1		
<b>84</b>	5	POSITION	BW2	BW3	BW4	—	SVC	BW1	4884PRGM	4 TANK SEQUENTIAL FILTER
		PORTS VENTED	2	3	4	—	6	1		
<b>85</b>	6	POSITION	BW2	BW3	BW4	BW5	SVC	BW1	4885PRGM	5 TANK SEQUENTIAL FILTER
		PORTS VENTED	2	3	4	5	6	1		
<b>TA*</b>	2	POSITION	SVCA	—	SVCB	—	—	—	48TAPRGM	2 TANK ALTERNATOR
		PORTS VENTED	1	—	2	—	—	—		

\* STAGER PROGRAM FOR USE WITH E SERIES (AQUAMATIC 962) CONTROLLER ONLY.

ASC = AIR SCOUR

SVC = SERVICE

BSR = BRINE / SLOW RINSE

SVCA = SERVICE UNIT A

BW = BACKWASH

SVCB = SERVICE UNIT B

FR = FAST RINSE

## SERIES 51 STANDARD STAGER PROGRAMS

			PORTS VENTED IN POSITION									
			0	1	2	3	4	5	6	7		
STAGER PROGRAM	# POS.		A	B	C	D	E	F	G	H	REF. DWG NO.	FUNCTION
06	6	POSITION	SVC	—	BW	—	BRD	SR	FR	REF	5106PRGM -or- 9606PRGM	6 POSITION SOFTENER (TIMED DRAW & REFILL)
		PORTS VENTED	1, 2	—	4	—	5, 6, 7	6, 7	1, 7	1, 2, 8		
07	5	POSITION	SVC	—	BW	—	BRD	SR	FR	—	5107PRGM -or- 9607PRGM	5 POSITION SOFTENER (TIMED DRAW)
		PORTS VENTED	1, 2	—	4	—	5, 6, 7	6, 7	1, 7	—		
09	5	POSITION	SVC	—	—	BW	BSR	—	FR	REF	5109PRGM -or- 9609PRGM	5 POSITION SOFTENER (TIMED REFILL)
		PORTS VENTED	1, 3	—	—	4	5, 7	—	1, 7	1, 8		
10	5	POSITION	SVC	—	BW	FRA	—	—	BW2	FRB	5110PRGM -or- 9610PRGM	2 TANK SEQUENTIAL FILTER (BACKWASH & FAST RINSE)
		PORTS VENTED	1, 2, 5, 6	—	5, 6, 7	1, 5, 6, 8	—	—	1, 2, 3	1, 2, 4, 5		
11	7	POSITION	SVC	—	DRD	—	ASC	BW	—	FR	5111PRGM -or- 9611PRGM	FILTER WITH AIR SCOUR
		PORTS VENTED	2, 3	—	1, 4	—	4, 6, 7	4, 7, 8	—	1, 2		
12*	6	POSITION	SVC	BW	—	BRD	DISP	RECL	FR	—	5112PRGM -or- 9612PRGM	BRINE RECYCLE SOFTENER
		PORTS VENTED	1, 8	2	—	4, 5	4, 5	5, 6	4, 8	—		
86	7	POSITION	SVC	BW1	BW2	BW3	BW4	BW5	BW6	—	5186PRGM -or- 9686PRGM	6 TANK SEQUENTIAL FILTER
		PORTS VENTED	8	1	2	3	4	5	6	—		
87	8	POSITION	BW1	BW2	BW3	BW4	BW5	BW6	BW7	SVC	5187PRGM -or- 9687PRGM	7 TANK SEQUENTIAL FILTER
		PORTS VENTED	1	2	3	4	5	6	7	8		

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ASC = AIR SCOUR

SVC = SERVICE

BSR = BRINE / SLOW RINSE

SVCA = SERVICE UNIT A

BW = BACKWASH

SVCB = SERVICE UNIT B

FR = FAST RINSE

# SERIES 58 STANDARD STAGER PROGRAMS

STAGER PROGRAM	# POS.		PORTS VENTED IN POSITION																REF. DWG NO.	FUNCTION
			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
			A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R		
00 *	9	POSITION	SVC	—	—	CBW	—	—	INJ	CSR	CFR	ABW	—	—	ADR	ASR	AFR	—	5800 PRGM	2 BED DI UNIT
		PORTS VENTED	1, 15, 16	—	—	2, 3	—	—	5, 6, 7	6, 7	1, 7	1, 10	—	—	1, 11, 12, 13	1, 12, 13	1, 13, 15	—		
01 *	5	POSITION	SVC	—	—	—	—	—	—	—	—	—	DRD	ASC	—	BW	—	FR	5801 PRGM	5 POS. FILTER, DBL. ACTING VALVES
		PORTS VENTED	3, 4, 5, 6, 7, 8, 9, 10	—	—	—	—	—	—	—	—	—	7, 8, 9, 10, 11, 12, 13, 14	5, 8, 9, 10, 11, 12, 14, 15	—	1, 5, 6, 7, 10, 11, 12, 16	—	2, 3, 5, 6, 7, 8, 9, 12		
02 *	9	POSITION	SVC	—	—	CBW	—	—	CDR	CSR	CFR	ABW	—	—	ADR	ASR	AFR	—	5802 PRGM	2 BED DI UNIT, OUTLET VALVE ON CATION UNIT
		PORTS VENTED	1, 2, 3, 16	—	—	4	—	—	6, 7, 8	7, 8	1, 8	1, 3, 11	—	—	1, 3, 12, 13, 14	1, 3, 13, 14	1, 3, 14, 16	—		
03	7	POSITION	SVC	—	BW1	FR1	—	—	BW2	FR2	—	—	BW3	FR3	—	—	—	—	5803 PRGM	3 TANK SEQ. FILTER, BW & FAST RINSE
		PORTS VENTED	2, 4, 6, 7, 9, 11	—	1, 6, 7, 9, 11	2, 6, 7, 9, 11, 12	—	—	2, 4, 5, 9, 11	2, 4, 6, 9, 11, 16	—	—	2, 3, 4, 6, 7	2, 4, 6, 7, 9, 10	—	—	—	—		
04	9	POSITION	SVC	—	BW1	FR1	—	—	BW2	FR2	—	—	BW3	FR3	—	—	BW4	FR4	5804 PRGM	4 TANK SEQ. FILTER, BW & FAST RINSE
		PORTS VENTED	2, 4, 6, 7, 9, 11, 14, 15	—	1, 6, 7, 9, 11, 14, 15	2, 6, 7, 9, 11, 12, 14, 15	—	—	2, 4, 5, 9, 11, 14, 15	2, 4, 6, 9, 11, 14, 15, 16	—	—	2, 3, 4, 6, 7, 14, 15	2, 4, 6, 7, 9, 10, 14, 15	—	—	2, 4, 6, 7, 9, 11, 13	2, 4, 6, 7, 8, 9, 11, 14		
07	10	POSITION	SVC	—	BW	—	INJ	DISP	FR	DRN	—	AM	AMD	—	REF	—	—	FNR	5807 PRGM	MIXED BED DI UNIT, SIMULTANEOUS REGEN
		PORTS VENTED	11, 12	—	1, 13	—	1, 3, 15, 16	1, 3, 16	1, 3, 11	3, 7	—	5, 7	3, 5, 7	—	7, 11	—	—	10, 11		
10 *	11	POSITION	SVC	—	BW	SET	—	CDR	CSR	—	ADR	ASR	AFR	—	DRD	AM	—	FNR	5810 PRGM	MIXED BED DI UNIT
		PORTS VENTED	15, 16	—	1	(NONE)	—	4, 5, 9	5, 9	—	7, 8, 9	8, 9	9, 10	—	9, 12	12, 13	—	14, 15		
TA	8	POSITION	SVCA	—	—	BWA	BSRA	—	—	FRA	SBA	—	—	—	—	BWB	BSRB	FRB	58TA PRGM	2 UNIT ALTERNATING SOFTENER
		PORTS VENTED	1, 2, 8, 16	—	—	6, 8, 11	5, 7, 8, 11	—	—	7, 8, 11, 16	8, 11, 16	—	—	—	—	2, 13, 16	1, 2, 15, 16	2, 8, 15, 16		
TB *	10	POSITION	SVCA	—	—	BWA	—	BRD	SR	FRA	SBA	—	—	BWB	—	BRD	SR	FRA	58TB PRGM	2 TANK ALTERNATOR WITH TIMED BRINE
		PORTS VENTED	6, 14, 16	—	—	1, 2, 6, 8	—	4, 5, 6, 8	4, 5, 6, 8	5, 6, 8, 14	6, 8, 14	—	—	9, 10, 14, 16	—	12, 13, 14, 16	12, 13, 14, 16	6, 13, 14, 16		

\* STAGER PROGRAM FOR USE WITH E SERIES (AQUAMATIC 962) CONTROLLER ONLY.

ABW = ANION BACKWASH  
 ADR = ANION DRAW  
 AM = AIR MIX  
 AMD = AIR MIX & DRAIN DOWN  
 ASC = AIR SCOUR  
 ASR = ANION SLOW RINSE  
 AFR = ANION FAST RINSE  
 BW = BACKWASH  
 BWA = BACKWASH UNIT A  
 BWB = BACKWASH UNIT B

BRD = BRINE DRAW  
 BSR = BRINE / SLOW RINSE  
 BSRA = BRINE / SLOW RINSE UNIT A  
 BSRB = BRINE / SLOW RINSE UNIT B  
 CBW = CATION BACKWASH  
 CDR = CATION DRAW  
 CFR = CATION FAST RINSE  
 CSR = CATION SLOW RINSE  
 DRD = DRAIN DOWN  
 DISP = DISPLACE

FR = FAST RINSE  
 FRA = FAST RINSE UNIT A  
 FRB = FAST RINSE UNIT B  
 FNR = FINAL RINSE  
 INJ = INJECT  
 RECL = RECLAIM  
 REF = REFILL  
 SBA = STANDBY UNIT A  
 SBB = STANDBY UNIT B  
 SET = SETTLE

SR = SLOW RINSE  
 SVC = SERVICE  
 SVCA = SERVICE UNIT A  
 SVCB = SERVICE UNIT B