

## STAGER MODEL NUMBER SELECTION

**PROGRAM (SEE STAGER PROGRAM CHARTS)**

\*00 - 99 = STANDARD  
 \*\*SS = SPECIAL Program per Drawing Indicated  
 TA = Twin Alternating Softener (Model 48, 58 and 59 Only)  
 ^TB = Twin Alternating Softener (w/ Timed Brine Pos. & switch output, 962 only)

\* Two character designation for standard stager program.  
 \*\* Special Drawing number placed in last 5 digits of model number.  
 (Special Drawing number also used for Aux. Sw. notched in more than 1 position)  
 ^ For models 58 and 59 stagers used In 962 Stager Controller ONLY

**ELECTRICAL Power Required to Operate Device**

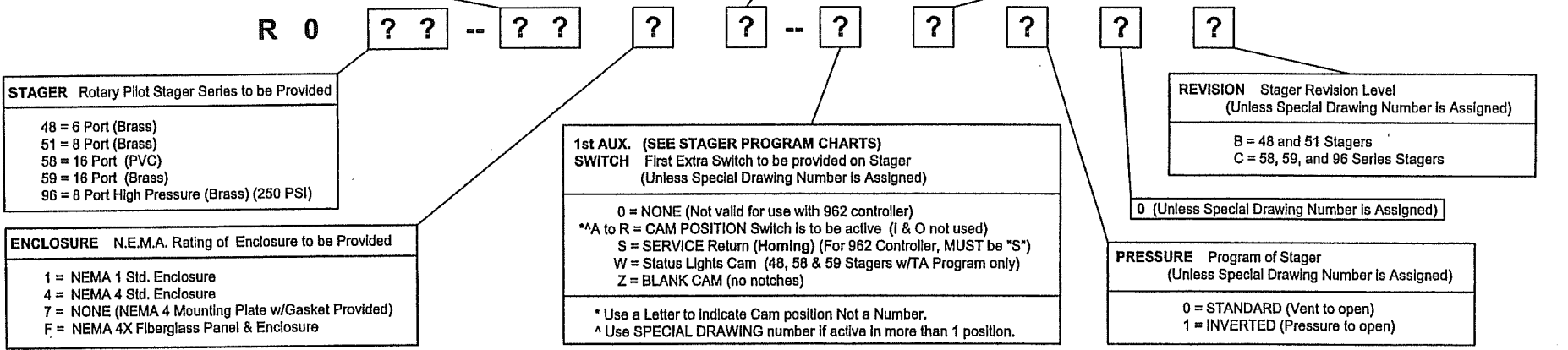
1 = 115 Volts / 60 Hertz for 48 & 51 Stagers  
 115 Volts 50 or 60 Hertz for 58, 59 & 96 Stagers  
 2 = 220 Volts / 50 or 60 Hertz for ALL STAGERS  
 5 = 24 Volts / 50 or 60 Hertz for ALL STAGERS  
 \* 9 = 12 Volts / 50 or 60 Hertz for ALL STAGERS

*\*(Option 9 is ONLY valid if used with a 962 stager controller)*

**2nd AUX. SWITCH (SEE STAGER PROGRAM CHARTS)**  
 Second Extra Switch to be provided on Stager  
 (Unless Special Drawing Number is Assigned)

0 = NONE  
 \*\*A to R = CAM POSITION Switch is to be active (I & O not used)  
 S = SERVICE Return (Homing)  
 T = TIMED BRINE OUTPUT (58-TB & 59-TB Only, signal in Pos. 2 & 7)  
 Z = BLANK CAM (no notches)

\* Use a Letter to indicate Cam position Not a Number.  
 ^ Use SPECIAL DRAWING number if active in more than 1 position.



### 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			
00	4	POSITION	SVC	---	BW	---	BSR	FR	4800PRGM	4 POS. SOFTENER
		PORTS VENTED	1, 2	---	3, 4	---	5, 6	1, 6		
01	3	POSITION	SVC	---	BW	---	---	FR	4801PRGM	3 POS. FILTER
		PORTS VENTED	1, 2	---	3, 4	---	---	1, 6		
03	4	POSITION	SVC	---	BW	---	BSR	FR	4803PRGM	4 POS. SOFTENER (BUTTERFLY CAM)
		PORTS VENTED	1, 2	---	3, 4	---	5, 6	1, 6		
04	2	POSITION	SVC	---	BW	---	---	---	4804PRGM	2 POS. FILTER
		PORTS VENTED	1, 2	---	3, 4	---	---	---		
12	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		
83	4	POSITION	BW2	BW3	---	---	SVC	BW1	4883PRGM	3 TANK SEQUENTIAL FILTER
		PORTS VENTED	2	3	---	---	6	1		
84	5	POSITION	BW2	BW3	BW4	---	SVC	BW1	4884PRGM	4 TANK SEQUENTIAL FILTER
		PORTS VENTED	2	3	4	---	6	1		
85	6	POSITION	BW2	BW3	BW4	BW5	SVC	BW1	4885PRGM	5 TANK SEQUENTIAL FILTER
		PORTS VENTED	2	3	4	5	6	1		
TA	2	POSITION	SVCA	---	SVCB	---	---	---	48TAPRGM	2 TANK ALTERNATOR
		PORTS VENTED	1	---	2	---	---	---		
TB	2	POSITION	SVCA	SVCB	SVCA	SVCB	SVCA	SVCB	48TAPRGM	2 TANK ALTERNATOR
		PORTS VENTED	1	2	1	2	1	2		

ASC = AIR SCOUR  
 BSR = BRINE / SLOW RINSE  
 BW = BACKWASH  
 FR = FAST RINSE  
 SVC = SERVICE  
 SVCA = SERVICE UNIT A  
 SVCB = SERVICE UNIT B

SHEET 1 OF 2  
 FORM NO. 1078030, REV. A

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**SERIES 48, 51, 58, 59 & 96 STAGERS  
 MODEL SELECTION & PROGRAMS**

SCALE N/A	DRAWN JWB	DATE 10MAY01	DWG. NO. 1078031
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## SERIES 58 & 59 STANDARD STAGER PROGRAMS

### PORTS VENTED IN POSITION

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	---	5800PRGM	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	5801PRGM	5 POSITION FILTER, DOUBLE 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	---		
02	9	POSITION	SVC	---	---	CBW	---	---	---	---	---	---	---	---	ADR	ASR	AFR	---	5802PRGM	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	---	---	---	---	5803PRGM	3 TANK SEQUENTIAL 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	5804PRGM	4 TANK SEQUENTIAL 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	5807PRGM	MIXED BED DI, SIMULTANEOUS REGENERATION
		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	---	---	CSR	---	ADR	ASR	AFR	---	DRD	AM	---	FNR	5810PRGM	MIXED BED DI UNIT
		PORTS VENTED	15,16	---	1	(NONE)	---	---	4,5,9	5,9	---	7,8,9	6,9	9,10	---	9,12	12,13	---		
TA	8	POSITION	SVCA	---	---	BWA	BSRA	---	---	FRA	SBA	---	---	---	BWB	BSRB	FRB	---	58TAPRGM	TWO 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	58TBPRGM	TWO TANK ALTERNATOR W/ TIMED BRINE
		PORTS VENTED	6,14,16	---	---	1,2,8,8	---	---	4,5,8,8	4,5,8,8	5,6,8,14	6,8,14	---	---	9,10,14,16	---	12,13,14,16	12,13,14,16		

\* TB PROGRAM FOR USE WITH SERIES 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

## SERIES 51 & 96 STANDARD STAGER PROGRAMS

### PORTS VENTED IN POSITION

STAGER PROGRAM	# POS.		PORTS VENTED IN POSITION							REF. DWG NO.	FUNCTION	
			0	1	2	3	4	5	6			7
			A	B	C	D	E	F	G	H		
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 (BW & FR)
		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		

SHEET 2 OF 2  
FORM NO. 1078030, REV. A

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