

940MAN - Manual Control for the Series 255 Valve

The 940Man represents the maximum in versatility and ease of operation for the manual conditioner valve system. Upgrade to an automatic system is easily accomplished by switching the manual control to a clock or demand control.

DO NOT TURN INDICATOR KNOB CLOCKWISE AT ANY TIME

Instructions for Regeneration:

1. Slowly move indicator knob COUNTERCLOCKWISE from the **Regeneration Complete** position to the **Backwash** position. Water will flow to the drain at this time. DO NOT turn the knob clockwise. Specific backwash times are determined by inlet water quality (e.g. iron, manganese, turbidity), amount of time between regenerations, water pressure and flow. The typical backwash time is 10 to 15 minutes*.
 2. After the backwash is complete, slowly move the indicator knob COUNTERCLOCKWISE to the **Brine/Slow Rinse** position. Water will flow to the drain at this time. See the attached "Suggested Brine Draw/Slow Rinse Times" to determine the correct draw/rinse time*. The knob should remain in the position for the time indicated in the table.
 3. When slow rinse is complete, slowly move the indicator knob counterclockwise to the **Repressurization** position. The knob should be left in this position for 1 minute to allow the system to repressurize.
 4. When repressurization is complete, slowly move the indicator knob COUNTERCLOCKWISE to the **Fast Rinse** position. Water will flow to the drain at this time. (Note: If you move the knob too far DO NOT TURN THE KNOB CLOCKWISE. Instead, move the knob COUNTERCLOCKWISE until you reach the correct **Fast Rinse** setting.) The length of backwash, water pressure, flow and clarity of the water at the drain determine the time required for fast rinse. Fast rinse serves to eliminate residual salt and repack the resin bed for service. Typically the knob should remain in the **Fast Rinse** position for 5 to 15 minutes*.
- CAUTION:** If excessive fast rinse time is required to return the service effluent to quality, there could be an underlying cause such as low pressure, fouled resin bed, fouled injector, etc.
5. After the fast rinse is complete, slowly move the indicator knob COUNTERCLOCKWISE to the **Refill** position. Water will refill the salt storage tank. Determine the correct refill time* from "Table 1: Suggested Salt Settings" in the 255/940 manual. The knob should remain in the **Refill** position for the suggested time.
 6. When the refill is complete, slowly move the indicator knob COUNTERCLOCKWISE to the **Regeneration Complete** position.
- * NOTE: The times given are only general guidelines. Adjustment of the times may be necessary for particular applications and conditions.

Suggested Brine Draw/Slow Rinse Times

Note: Draw/Rinse times are given in minutes followed by the appropriate injector in parentheses.

Table-1 Based on 25 psi and 2.5 bed volumes of slow rinse.

Hardness Capacity*	Resin Bed Volume								
	0.5 Ft ³	0.75 Ft ³	1.0 Ft ³	1.25 Ft ³	1.5 Ft ³	1.75 Ft ³	2.0 Ft ³	2.5 Ft ³	3.0 Ft ³
12	52 min (A)	-	-	-	-	-	-	-	-
16	60 min (A)	40 min (B)	-	-	-	-	-	-	-
20	-	47 min (B)	52 min (B)	-	-	-	-	-	-
24	-	56 min (B)	57 min (B)	64 min (B)	-	-	-	-	-
30	-	-	68 min (B)	55 min (C)	60 min (C)	-	-	-	-
32	-	-	75 min (B)	58 min (C)	62 min (C)	59 min (C)	-	-	-
35	-	-	-	65 min (C)	65 min (C)	62 min (C)	67 min (C)	-	-
40	-	-	-	-	74 min (C)	67 min (C)	72 min (C)	-	-
48	-	-	-	-	-	79 min (C)	80 min (C)	86 min (C)	-
60	-	-	-	-	-	-	-	-	88 min (C)

Table-2 Based on 50 psi and 2.5 bed volumes of slow rinse.

Hardness Capacity*	Resin Bed Volume								
	0.5 Ft ³	0.75 Ft ³	1.0 Ft ³	1.25 Ft ³	1.5 Ft ³	1.75 Ft ³	2.0 Ft ³	2.5 Ft ³	3.0 Ft ³
12	35 min (A)	-	-	-	-	-	-	-	-
16	41 min (A)	49 min (A)	-	-	-	-	-	-	-
20	-	55 min (A)	36 min (B)	-	-	-	-	-	-
24	-	62 min (A)	40 min (B)	45 min (B)	-	-	-	-	-
30	-	-	47 min (B)	50 min (B)	55 min (B)	-	-	-	-
32	-	-	52 min (B)	52 min (B)	42 min (C)	45 min (C)	-	-	-
35	-	-	-	57 min (B)	44 min (C)	47 min (C)	51 min (C)	-	-
40	-	-	-	-	49 min (C)	50 min (C)	54 min (C)	-	-
48	-	-	-	-	-	58 min (C)	59 min (C)	65 min (C)	-
60	-	-	-	-	-	-	-	-	80 min (C)

Table-3 Based on 70 psi and 2.5 bed volumes of slow rinse.

Hardness Capacity*	Resin Bed Volume								
	0.5 Ft ³	0.75 Ft ³	1.0 Ft ³	1.25 Ft ³	1.5 Ft ³	1.75 Ft ³	2.0 Ft ³	2.5 Ft ³	3.0 Ft ³
12	31 min (A)	-	-	-	-	-	-	-	-
16	41 min (A)	49 min (A)	-	-	-	-	-	-	-
20	-	55 min (A)	36 min (B)	-	-	-	-	-	-
24	-	62 min (A)	40 min (B)	45 min (B)	-	-	-	-	-
30	-	-	47 min (B)	50 min (B)	55 min (B)	-	-	-	-
32	-	-	52 min (B)	52 min (B)	42 min (C)	45 min (C)	-	-	-
35	-	-	-	57 min (B)	44 min (C)	47 min (C)	51 min (C)	-	-
40	-	-	-	-	49 min (C)	50 min (C)	54 min (C)	-	-
48	-	-	-	-	-	58 min (C)	59 min (C)	65 min (C)	-
60	-	-	-	-	-	-	-	-	80 min (C)

*Hardness Capacity is given in Kilograins