

Instructions for tuning the AutoPurge System™ (APS2 and APS4)

BASIC INSTALLATION

1. Bring Fire Protection System (FPS) up to supervisory pressure and ensure Ball Valve on APS is in the "open" position (See Figure 1).
2. Make sure the APS flow dial (A) is turned to the "closed" position (rotate clockwise).
3. Then, slowly turn the APS flow dial (counter-clockwise) until center of float bead reaches the alphabetical setting noted on settings label (located on the back of APS and shown below).

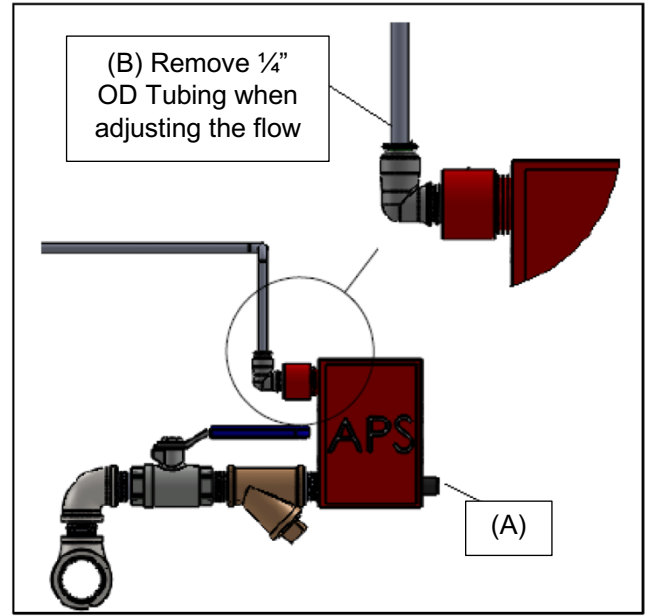


Figure 1: APS field diagram representative of an installation w/ PowerSaver Manifold (note: if a PowerSaver Manifold is not installed with the nitrogen generator, the 1/4" tubing will not be present).

INSTALLATION W/ POWERSAVER

1. If a PowerSaver Manifold (i.e. digital nitrogen purity analyzer) is installed, remove the 1/4" OD Tubing (B) from the APS Adapter. Turn the APS flow dial to setting D no matter the size of the FPS.
2. Once the float bead has stabilized, reconnect the 1/4" tubing. The float bead may drop after reconnecting the tube due to the PowerSaver Manifolds™ functionality (this is OK).



Fig 2: Alphabetical Indicators

APS 2 Flow Settings			
Set APS Flow Setting once FPS is up to supervisory pressure. Should there be no flow (indicated by black ball not floating within chamber), use bleed screw to relieve water check or clean strainer; see manual for instructions.			
Note: If Quick-Check Purity Manifold is installed, set APS Flow setting to the zone size, in gallons, with a minimum setting of "C" before connecting tubing.			
Zone (Gallons)	Flow Setpoint	Zone (Gallons)	Flow Setpoint
50	1/4	600	C
100	1/2	650	C+1/4
150	3/4	750	C+1/2
200	A	800	C+3/4
250	A+1/2	850	D
300	A+3/4	900	D+1/4
350	B	950	D+1/2
400	B+1/4	1000	D+3/4
500	B+1/2	1050	E
550	B+3/4		

Warning: AutoPurge System ball valve should be closed during all sprinkler system pressure tests. This system allows a controlled purge of the sprinkler pipes to properly inhibit corrosion. Setting the APS to a flow rate other than the specified level may cause system alarms or excessive run times.
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Fig 3: APS 2 Settings

APS 4 Flow Settings			
Set APS Flow Setting once FPS system is up to supervisory pressure. Should there be no flow (indicated by black ball not floating within chamber), use bleed screw to relieve water check or clean strainer; see manual for instructions.			
Note: If Quick-Check - Purity Manifold is installed, set APS Flow setting to "A".			
Zone (Gallons)	Flow Setpoint	Zone (Gallons)	Flow Setpoint
1100-1200	A	2600-2750	B+3/4
1250-1500	A+1/4	2800-3050	C
1550-1700	A+1/2	3100-3300	C+1/4
1750-1900	A+3/4	3350-3600	C+1/2
1950-2050	B	3650-3850	C+3/4
2100-2300	B+1/4	3900-4000	D
2350-2550	B+1/2		

Warning: AutoPurge System should be valved off during all FPS pressure tests. This system allows a controlled purge of the FPS system and should be set to proper APS Flow Setting only. Other settings may cause the FPS alarm to malfunction.
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Fig 4: APS 4 Settings