



CPF20-600 (revised 08/08)

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SOLID STATE AUTOMATIC DRAIN VALVE

Instruction & Engineering Data Sheet

Application:

Coilhose Pneumatics 8653 Solid State Automatic Drain Valve discharges accumulated water from compressor tanks, dryers, separators, after coolers, drop legs, filters, high elevation locations and other remote or hard-to-reach installations. The adjustable electronic timer allows precise settings for both cycle time between discharges as well as for actual drain time (amount of time the valve is open). By adjusting the cycle time to meet specific requirements of peak moisture accumulation, air lines are protected against flooding without the time, expense and inconvenience of draining equipment manually.

Installation Instructions:

1. Drain valve should be installed at a location below the moisture collection reservoir so that the accumulated fluid will be gravity fed to the drain. Mounting can be vertical or horizontal.
2. Air pressure should be turned off and any liquid should be drained from the reservoir.
3. Install the 1/2" NPT end of the Strainer Ball Valve, using either teflon tape or pipe dope, onto the system. The unit can be mounted either vertically or horizontally. Pipe the outlet port into the discharge line.
4. Plug the power cord of the 8653 unit into a grounded 120V/110V AC receptacle.
5. The automatic drain valve will now open once a cycle - between one and forty-five minutes, which can be selected by setting the TOP knob on the timer unit. The drain valve will remain open for a period of between one and fifteen seconds, which can be selected by setting the BOTTOM knob on the timer unit.

Note: The cycle time between valve openings should be adjusted so that it drains often enough to prevent water from filling the ball valve. The amount of time the valve remains open should be adjusted so that mostly water is expelled during drain time.

Settings should be checked periodically as the rate of moisture accumulation may vary at different times of the year or with different usage conditions.



Ordering Information

Solid State Automatic Drain Valve	8653
Solid State Timer with Gasket	8653-1
Solenoid Valve	8653-2
Six Foot Power Cord with Gasket	8653-3

Cleaning and Maintenance:

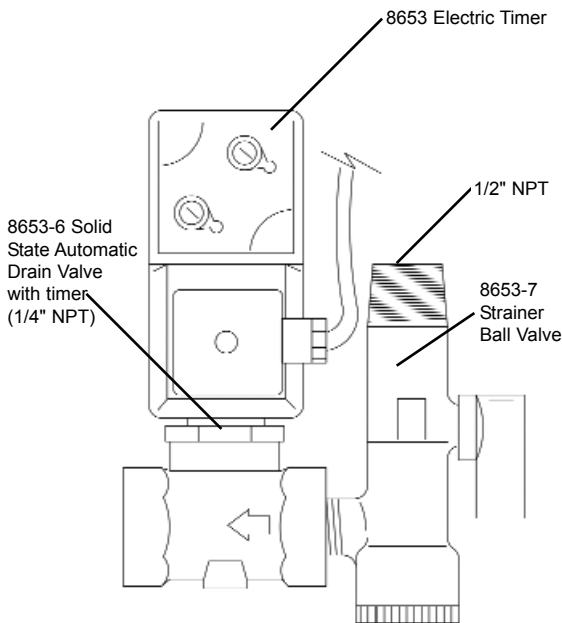
It is necessary to keep the filter element clear in order for the drain valve to operate at peak performance. A reduction in the fluid discharge rate or pressure drop of 10 PSI or more indicates that cleaning is required.

Shut the ball valve to the "OFF" position. Unscrew the knurled knob on the opposite end, taking care not to drop the parts. Clean the element by washing in kerosene or soapy water. The filter element should then be dried by blowing compressed air from the inside outward.

When the cleaning is complete, the filter element should be placed back into the body and the filter housing nut threaded back into the strainer ball valve until tight.

Specifications:

Voltage:	120 V 60HZ / 110V 50Hz
Power:	20 Watts
Cycle Range:	1 min to 45 mins
Open Time:	1 sec to 15 sec
Operating Temperature:	10°F to 120°F
Maximum Inlet Pressure:	175 PSI
Fluid Discharge Capacity:	1.5 Gal/min @ 125 PSI
Height:	4-7/8"
Width:	1-1/2"
Depth:	4"
Weight:	1lb 7-1/2 oz.
Port Size (One "IN" & Two "Out"):	1/4" NPT
Drain Orifice Diameter:	3/32"
Filter Element:	Sintered Bronze (40 micron)



CV Values (approximate)

Valve Size	1/4"
CV	1.5
Discharge-gallons (5 sec, at 90 PSIG)	1.2

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We reserve the right to make engineering changes in design or materials without notification.