



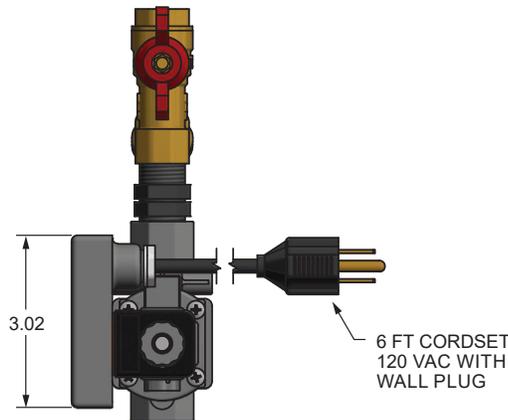
# Series CRDV/S

Plug-N-Play Closed Loop  
Compressor Drain Valve

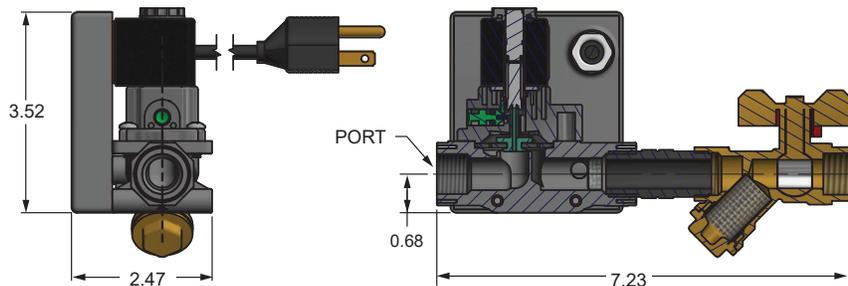
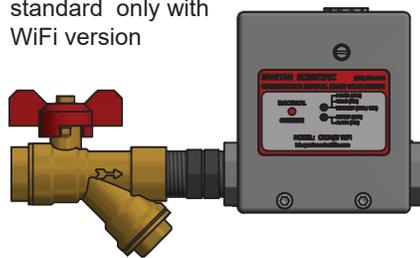
The Spartan Scientific Series CRDV/s Condensate Removal Drain Valve with optional Wi-Fi keeps your air compressor tank and air lines free of moisture automatically by coupling a state of the art, closed loop sensing system with a robust high flow diaphragm solenoid valve. As a constant sentinel, the CRDV/s protects your expensive equipment against premature failure, reducing rust and clogged air components while increasing compressor life, facilitating proper maintenance, proper cycling and machine life. The CRDV/s features a self-cleaning cycle every 24 hours, status indicator lights, environment resistant design and once setup, is truly plug and play. As water/effluent enters the CRDV/s, the self-learning mode opens the valve more often or less often based on the sensing of the water and demand. The CRDV/s drains the water, only when necessary with no loss of compressed air. Spartan Scientific offers a simple app for connecting the unit to the internet by use of a secure internet connection. Available for IOS, Android or desktop web site, the app allows the user real-time, data logged statistics on water removal, temperature, cumulative and daily cycling data. Upon connection, the user can set up alerts for alarm conditions that come in the form of texts or emails. More importantly, the user can see daily trends and have access everywhere. The options, utility, size, ease of installation and price rival the cost of conventional timed electric drains that have none of these features.

## Dimensional Data

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

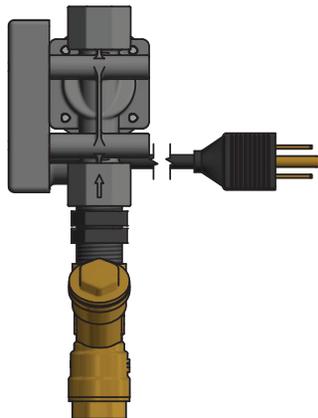


\*NOTE: Y-Strainer  
standard only with  
WiFi version

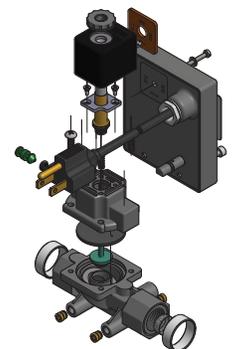


## FEATURES

- Wi-Fi app helps with preventative maintenance
- Mobile and PC interfaces for drain history
- Temperature monitoring
- Alert sent to your phone via text or e-mail
- Time sensitive alarms



## EXPLODED VIEW





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Compressor Drain Valve

## Technical Data

**Function:** 2-Way, 2-Position; Inlet Pilot Diaphragm;  
Normally Closed

**Port Size:** 1/2" NPT

**Orifice Sizes /  
Flow Factor:** 12.5mm /  
2.45 Cv

**Pressure Range:** 0 to 180 psi

**Temp. Range:** Fluid Max.: +60°C  
Dry Range: Ambient +10° to +50°C  
Note: This device is not recommended for  
use in below freezing temperatures

**Response Time:** 20 to 80 ms Complete Cycle

**Media:** Air, emulsion, gas, water  
(contact factory for compatibilities)

**Environment  
Protection:** IP65 (IEC 144), NEMA 4  
Dust-tight and water resistant  
(with electrical connector)

**Mounting:** On pipe or #8 - 32 mounting holes on  
valve base

**Wetted Materials:** Elastomers: FKM  
(others available on request)  
Manual Override: Polypropylene  
Operator: 400 Series Stainless Steel and Brass  
Orifice Insert: Polypropylene  
Shading Ring: Copper (AC Only)  
Springs: 300 Series Stainless Steel  
Valve Body: Glass-Filled Nylon

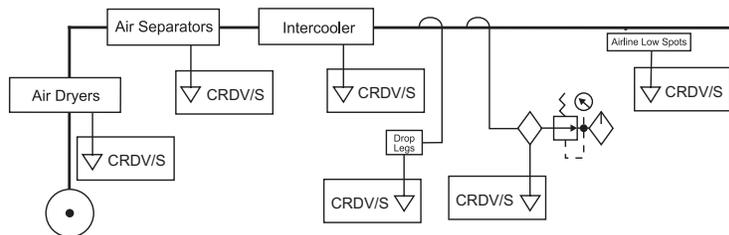
**Coil Data:** Duty Cycle: Continuous  
(within specifications)  
Encapsulation: Glass-Filled Nylon  
Insulation: Class F  
Power Rating: 8.5 VA  
Voltage: 120 VAC 50/60 Hz  
Voltage tolerance: +/- 10% Nominal  
Winding: Class H

**Transient  
Suppression:** MOV

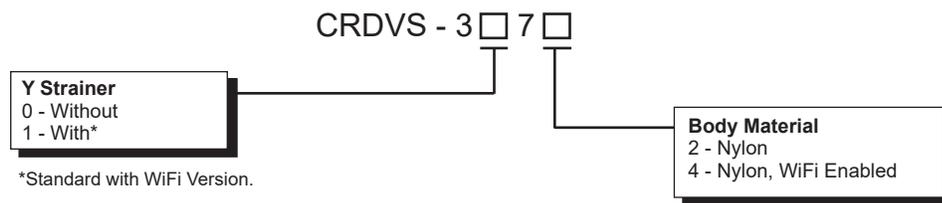
**Cable:** 6 ft. Cord with grounded wall plug

**Packaged Weight:** 1.1 lbs.

## Applications



## How To Order



**Repair Kit**  
Kit includes: Solenoid Coil, Solenoid  
Operator Assembly & Viton Diaphragm

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Specify Part Number  
CRDVS-RK

Order Example: CRDVS-3072  
Without Y strainer, Nylon.