

## TECHINICAL DATASHEET

CODE: VD03LS100PROY



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## TECHINICAL DATASHEET VD03LS100PROY

### I. MATERIAL:

1.1 Body material	PESU™
1.2 Seal material	LSR
1.3 Tube material	PA66 FV30%
1.4 Electrical connections	FASTON

### 2. ELECTRICAL CHARACTERISTICS:

2.1 Insulation class	H
2.2 Position	VERTICAL
2.3 Rated voltage	110-120 VAC 50/60Hz
2.4 Operating voltage range	110-120Vac 50/60Hz
2.5 Rated current	150mA (120Vac 50Hz)
2.6 Rated use condition	ED 100%
2.7 Insulation resistance	The insulation resistor is 500MΩ Min at DC500V between Coil and non-charge Metal
2.8 Dielectric Withstand	It has to test between coil and outer metal parts at applying AC1500V for 1 second (current≤0.3mA)

### 3. RATED CONDITIONS

3.1 Operational pressure (Inlet A)	7.25psi
3.4Burst Pressure	58psi
3.5 Coil power	14 W
3.6 Temperature rise	87° at 120Vac

### 4. STANDARD OPERATING CONDITIONS

4.1 Ambient temp.	0-70°C Humidity to 30% to 85%RH
4.2 Fluid temp	<100°C
4.3 Working fluids	Water, Juice, coffee

Material Certification	CE; NSF61; NSF 51; WRAS
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## 6. STANDARD TEST SPECIFICATION

6.1 Insulation resistance	The insulation resistor is 500MΩ Min at DC500V between Coil and non-charge Metal
6.2 Dielectric Withstand	It has to test between coil and outer metal parts at applying AC1600V for 1 second (current≤0.3mA)
6.3 Salt spray test	5+/-0.1% salt solution, Temperature: 35°C, PH:6.5~7.2, 48 hours Criteria: there should be no corrosion on the plunger & plunger guide after for 48 hours
6.4 Burst test	5 times the max water pressure @ 1min Criteria: No leakage is allowed, and the unit shall be operable.
6.6 Switch test at 7,25PSI with 95V	From INLET to OUTLET
6.8 Leakage test	leakage with air 50kPa (0,5bar) 5sec max leakage 0,2Kpa
	leakage with air 35kPa (0,34bar) 5sec max leakage 0,2Kpa
	leakage with air 5kPa (0,05bar) 5sec max leakage 0,15Kpa
6.9 Water leakage	35kPa (0,34bar) 20 sec no leakage

## 7. LIFE TEST SPECIFICATION

7.1 Life test	Connect the valves with 120VAC, (turning the power on for 1 second and off for 1 second), with 7,25PSI water temperature 95°C (OUTLET will be open). <b>500.000 CYCLES REQUIRED</b>
7.2 Short life test	Connect the valves with 120VAC +5%, (turning the power on for 35 second and off for 30 second), with 12PSI water temperature 95°C (OUTLET will be open). <b>16.000 CYCLES REQUIRED</b>