



LDV 1000



LDV 2000



LDV 3000

- Condensate Sensing Type
- Zero Air Loss
- Design Patented
- Noise Free
- Fault tolerant system



Automatic Drain Valves

Series LDV

The LDV Series

Trident's condensate sensing type automatic drain valve is the latest advancement in drain valve technology. These valves sense the condensate level for activation, ensuring absolutely no loss of compressed air and hence results in enormous energy saving. Trident condensate sensing type drain valves are highly efficient and reliable. Fault tolerant system is switching over into timer mode automatically while LDV fails to operate due to sensor failure. Timing cycle is every 2 mins for a period of 2 seconds.

Technical Specifications

Item code	PL009	PL010	PL011	PL012	PL013	PL014
Model	LDV 1000	LDV2000	LDV3000	LDV1030	LDV2030	LDV 3030
Input voltage (AC/DC)	85 to 300VAC 50/60HZ	85 to 300VAC 50/60HZ	85 to 300VAC 50/60HZ	24VDC	24VDC	24VDC
Avg. power consum. (watts)	12	12	12	12	12	12
Min. working pressure (Kg/cm ² (g))	2	4	4	2	4	4
Max. working pressure (Kg/cm ² (g))	10	10	10	10	10	10
Valve orifice (mm)	4	15	15	4	15	15
End connection Inlet	1/2" BSP(F)	1/2" BSP(M)	1/2" BSP(M)	1/2" BSP(F)	1/2" BSP(M)	1/2" BSP(M)
End connection outlet	6mm Hose barb	1/2" BSP(F)	1/2" BSP(F)	6mm Hose barb	1/2" BSP(F)	1/2" BSP(F)
Environmental Protections	IP 54	IP 54	IP 54	IP 54	IP 54	IP 54
Max. fluid Temperature (°C)	75	75	75	75	75	75
Dimension LxBxH (mm)	141x60x127	225x127x164	385x183x229	141x60x127	225x127x164	385x183x229
Weight (Kg)	1.25	3.2	7.0	1.25	3.2	7.0
Maximum condensate discharge quantity at 7Kg/cm ² (g) (Liters/hr)	50	185	675	50	185	675
Air compressor after cooler (m ³ /hr)	850	1019 to 3398	4248 & above	850	1019 to 3398	4248 & above
Wet Air receiver (m ³)	2	4 to 10	12 & above	2	4 to 10	12 & above
Prefilter (m ³ /hr)	6796	8495 to 27184	30582 & above	6796	8495 to 27184	30582 & above
Refrigeration dryer (m ³ /hr)	1699	2209 to 6796	8495 & above	1699	2209 to 6796	8495 & above
After filter (m ³ /hr)	6796	8495 to 27184	30582 & above	6796	8495 to 27184	30582 & above
Dry Air receiver (m ³)	2	4 to 10	12 & above	2	4 to 10	12 & above

Condensate discharge for any other pressure (P) multiply the flow given for 7 Kg/cm² (g) by $\sqrt{\frac{P}{2.6}}$



Features

- The electronic level control ensures proper draining of condensate and avoids unnecessary loss of air.
- All the functions of the valve are accurately indicated by the Yellow LED.
- Test switch (or) manual drain allows function test at anytime.
- Intelligent Controller detects probe failure and indicates Red LED for potential free relay NO change to NC.
- Noise free, as air is not discharged.
- Inbuilt fault tolerant system ensures continues operation of drain valves.
- Incase of level probe failure drain valve gets ON 0.5 sec at every 6 minutes.

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