TRIDENT
engineering quality air & gas








LDV 1000 V1



LDV 2000 V1



LDV 3000 V1

- 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.

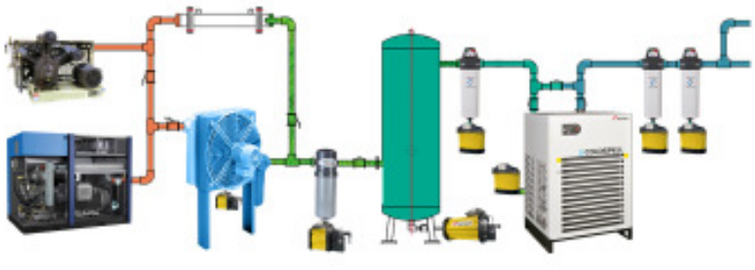
Features

- 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.

Technical Specifications

Item code	PL015	PL019	PL021	PL018	PL020	PL022
Model	LDV 1000 V1	LDV 2000 V1	LDV 3000 V1	LDV 1030 V1	LDV 2030 V1	LDV 3030 V1
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 (^0C)	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 condenstate 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/cm^2 (g) by $\frac{\sqrt{P}}{2.6}$



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