

ELECTRONIC AUTOMATIC DRAIN VALVE CONCEPT HDV-151 / HDV-151 (MD)



THE CONCEPT HDV - 151 IS HIGH DISCHARGE MODEL SPECIALLY SUITABLE TO REMOVE CONDENSATE HAVING SLUDGE AND RUST LADEN FROM COMPRESSED AIR SYSTEMS. MOST SUITABLE FOR INSTALLATION ON COMPRESSORS AFTER COOLERS, DRYERS, RECEIVERS, DRIP LEGS, MOISTURE SEPERATORS ETC.

FEATURES

- Fully Automatic - No Maintenance.
- 12.5 mm Orifice
- Manual Test Switch
- Indication for Valve Healthiness (Status Indication)
- Easy to Replace
- Specially suitable for drain sludge & rust laden condensate
- By pass line not require with model HDV - 151(MD)
- Glass filled nylon coil former.
- Sealing by 'O' ring
- Small compact resistant ABC timer
- 18 months warranty
- No tool required to replace timer

DISCHARGE IN LTRS. v/s PRESSURE v/s INTERVAL TIME

Interval Time In Min.	Discharge Per Day (Approx. in Lits.)							Approx. No. of Operation Per Day*
	2	4	6	8	10	12	15	
1	315	500	675	820	950	1010	1270	
2	173	275	371	450	522	555	698	
4	90	142	192	232	270	286	360	
8	36	57	77	93	108	115	144	
16	22	35	48	58	67	72	90	
32	11	18	24	29	34	36	45	
64	5	8	11	14	16	17	21	
128	2.7	4.3	5.8	7.1	8.2	8.7	11	
MWP → in Kg/Cm ²	2	4	6	8	10	12		



HDV-151

SPECIFICATIONS

TIMER

- Interval Time : 1-128 Min. Adjustable
- Drain Time : 4 Sec. / 1-15 Sec. (Adjustable)*
- Supply Voltage : 230 VAC (180-260 VAC), 50 Hz (Other on request)
- Operating Temperature : 70 °C (Maximum)
- Housing Material : High Impact Resistant ABS
- Connection : DIN 43650 A with Power Indication
- Indication :
 - LED (Red) - Power On
 - LED (Yellow) - 'ON' after every 15 sec. Indicate healthiness of Timer.
 - LED (Green) - 'ON' during drain cycle

*Optional

VALVE

- Type : 2/2 Way Pilot Operated
- In/Out Ports : 1/2" BSP (F) / 1" BSP (F)
- Max. Working Pressure : 15 Kg/Cm²
- Valve Body : Aluminium (Other on request)
- Orifice : 12.5 mm
- Pilot Pressure : Minimum 2.5 Kg/Cm²

ELECTRONIC

AUTOMATIC DRAIN VALVE

EDV - 161 / EDV 161 (MD) / MOIST DRAIN / SMART DRAIN



THE CONCEPT EDV - 161 IS DESIGNED TO REMOVE CONDENSATE FROM COMPRESSED AIR SYSTEMS. MOST SUITABLE FOR INSTALLATION ON COMPRESSORS AFTER COOLERS, DRYERS, RECEIVERS, DRIP LEGS, MOISTURE SEPERATORS ETC.

FEATURES

- Fully Automatic - No Maintenance
- Manual Test Switch
- Indication for Valve Healthiness (Status Indication)
- Easy to replace
- Glass filled nylon coil former
- 'O' Ring seal on cycle adjustment pots to ensure weather proof sealing
- Small compact resistant ABS Timer
- 18 Months Warranty
- No tool required to replace timer
- Manual drain (Model EDV-161 MD)

DISCHARGE PER DAY v/s PRESSURE v/s INTERVAL TIME

Interval Time in Min. ↓	Discharge Per Day (Approx. in Ltr.)						Approx. No. of Operation Per Day
	220	330	445	508	570	660	
1	220	330	445	508	570	660	1270
2	122	180	245	280	314	363	698
4	63	94	126	144	162	187	360
8	25	38	50	58	65	75	144
16	15	23	31	36	40	47	90
32	8	12	15	18	20	24	45
64	4	5.5	7.4	8.4	9.4	11	21
128	2	2.8	3.8	4.1	4.6	5.6	11
MWP → in Kg/Cm ²	2	4	6	8	10	12	



MODEL EDV - 161

TIMER

- Interval Time : 1-128 Min. Adjustable
- Drain Time : 4 Sec. / 1-15 sec (adjustable)**
- Supply Voltage : 230 VAC (160-260 VAC), 50 Hz (Other on request)
- Operating Temperature : 70°C (Maximum)
- Housing Material : High Impact Resistant ABS
- Connection : DIN 43650 A with Power Indication
- Indications :
 - LED (Red) - Power On
 - LED (Yellow) - 'ON' after every 15 sec. Indicate healthiness of timer. (Not available in moist drain)
 - LED (Green) - 'ON' during drain cycle.

*Available in model smart drain otherwise optional

VALVE

- Type : 2/2 Way Direct Acting
- In/Out Ports : 1/8" BSP (F) / 3/8" BSP (F) / 1/4" BSP (F)
- Max. Working Pressure : 16 Kg/Cm²
- Valve Body : Bar Stock Aluminium with anodizing (Brass & SS on request)
- Orifice : 2.5 mm / 5 mm**

** 5 MM Orifice is available in moist drain (MWP 12 kg/cm²)

SPECIFICATIONS

ELECTRONIC SYSTEM SAVER DRAIN - ZERO AIR LOSS **CONCEPT** SSD-ZAL-151



SYSTEM SAVER DRAIN HAVE AN ELECTRONIC LEVEL SENSING CAPABILITY WHICH ONLY DISCHARGE WHEN CONDENSATE IS PRESENT, THUS PREVENTING UNNECESSARY LOSS OF VALUABLE COMPRESSED AIR. THIS INTELLIGENT SENSING SYSTEM OPERATES WITH OIL AND WATER. THE UNIQUE FAULT DIAGNOSTIC FEATURE GIVES INDICATION IF VALVE IS CLOGGED, COIL BURNT, LOOSE SUPPLY CONNECTION OR ELECTRONIC UNIT IS FAULTY WITH FACILITY TO RE-SET, AFTER THE FAULT IS CLEARED.

FEATURES

- FULLY AUTOMATIC.
- DESIGNED TO COMPLEMENT ALL COMPRESSED AIR SYSTEM INCLUDING COMPRESSORS, FILTERS, WATER SEPERATORS, DRYERS, COOLERS AND RECEIVERS.
- EASY MOUNTING AND INSTALLATION.
- ZERO AIR LOSS, ZERO ENERGY LOSS, LESS MAINTENANCE.
- 5 MM ORIFICE.
- MWP 15 KG/CM².
- HEAVILY CONTAMINATED CONDENSATE CAN BE EFFECTIVELY BE DISCHARGED.
- TEST SWITCH
- RE-SET SWITCH.
- FAULT INDICATION



OPTIONAL

FINE FILTER

To ensure a continuous filtration of condensate. The fine filter stops the flow of particulates, for example rust particles, strands of hemp or oily mud etc. Sediment collected at bottom of the filter bowl can simply be removed by flushing with the flick of a finger.

FEATURES:

- Easy Installation.
- Shock resistant clear synthetic material filter bowl enables easy inspection of filter contamination.
- In service maintenance without removal.

SPECIFICATIONS:

- Operating Pressure : 16 Bar
- Connection Size : ½" BSP (M)
- Pressure Drop : 0.2 BAR
- Flow Rate : 1.5 M³/Hr.



SPECIFICATIONS

ELECTRONIC UNIT

- Supply Voltage : 240 VAC (180-260 VAC) 50 Hz other on request.
- Operating Temperature : 70°C (Maximum)
- Enclosure Housing : High Impact ABS dark grey IP 65, Operating Temp. - 20°C to 100°C.
- Connections : DIN 43650 A with Power Indication
- Indications :
 - LED (Red) - Power On
 - LED (Green) - 'ON' During Drain Cycle
 - LED (Yellow) - 'ON' if fault occurs
- Test Switch : For Manual Test Drain
- Reset Switch : To Re-Set valve after clearing of fault.

VALVE

- Type : 2/2 Way Direct Acting
- In/Out Ports : ½" BSP (F)
- Max. Working Pressure : 15 Kg/Cm²
- Valve Body : BAR Stock Aluminium
- Orifice : 5 mm

CONDENSATE BOWL

- Material : Clear Pol
- Max. Working Pressure : 15 Kg/Cm²
- In / Out Ports : ½" BSP (F)

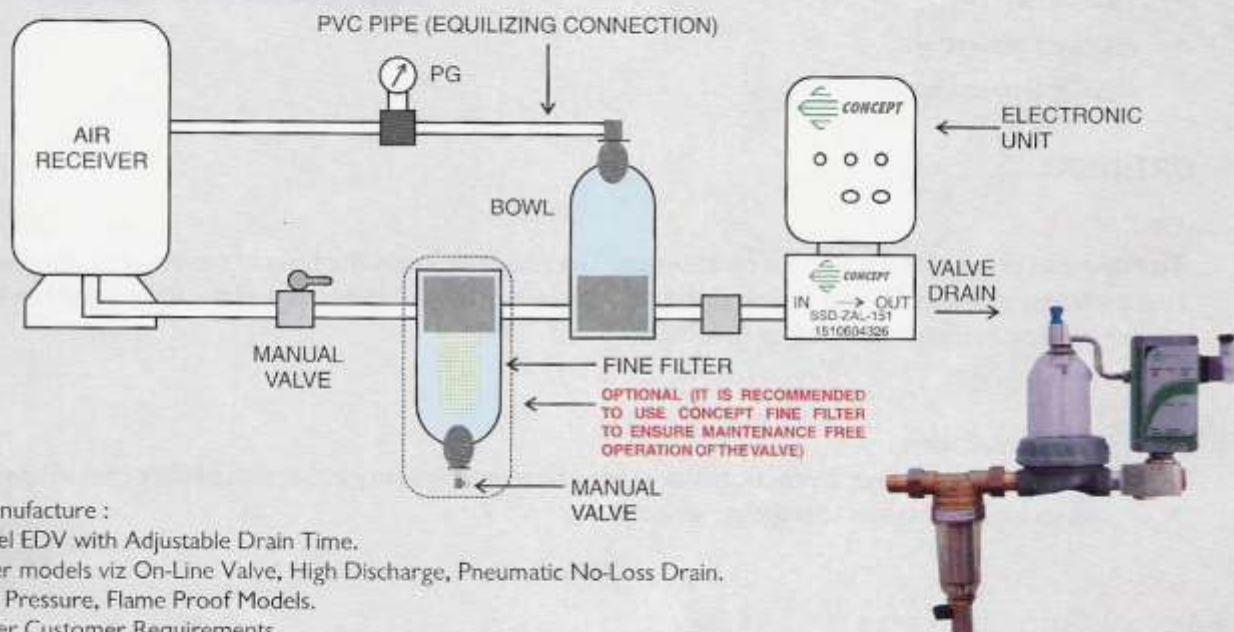
Marketed By :

Manish Agencies



309, Shalin Complex,
Opp. Vijaya Bank,
Krishnabaug Cross Road,
Maninagar, Ahmedabad-380 008.
Telefax : 25466002, 25450359
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INSTALLATION

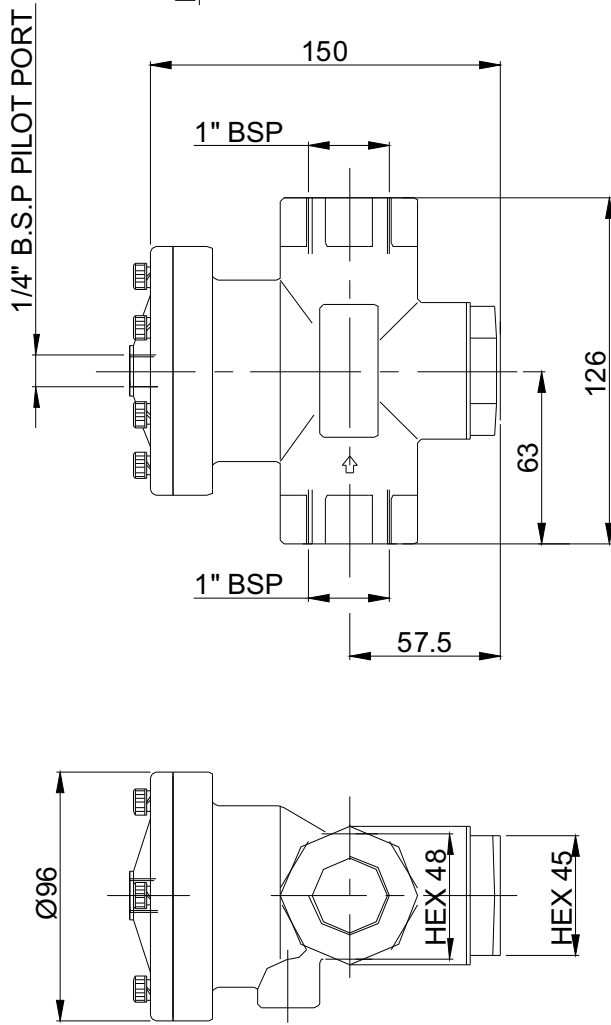


also manufacture :

- Model EDV with Adjustable Drain Time.
- Other models viz On-Line Valve, High Discharge, Pneumatic No-Loss Drain.
- High Pressure, Flame Proof Models.
- As per Customer Requirements.


YOUR DEALER

WEV.	E.C.N.#	DESCRIPTION	BY	DATE	APPD.



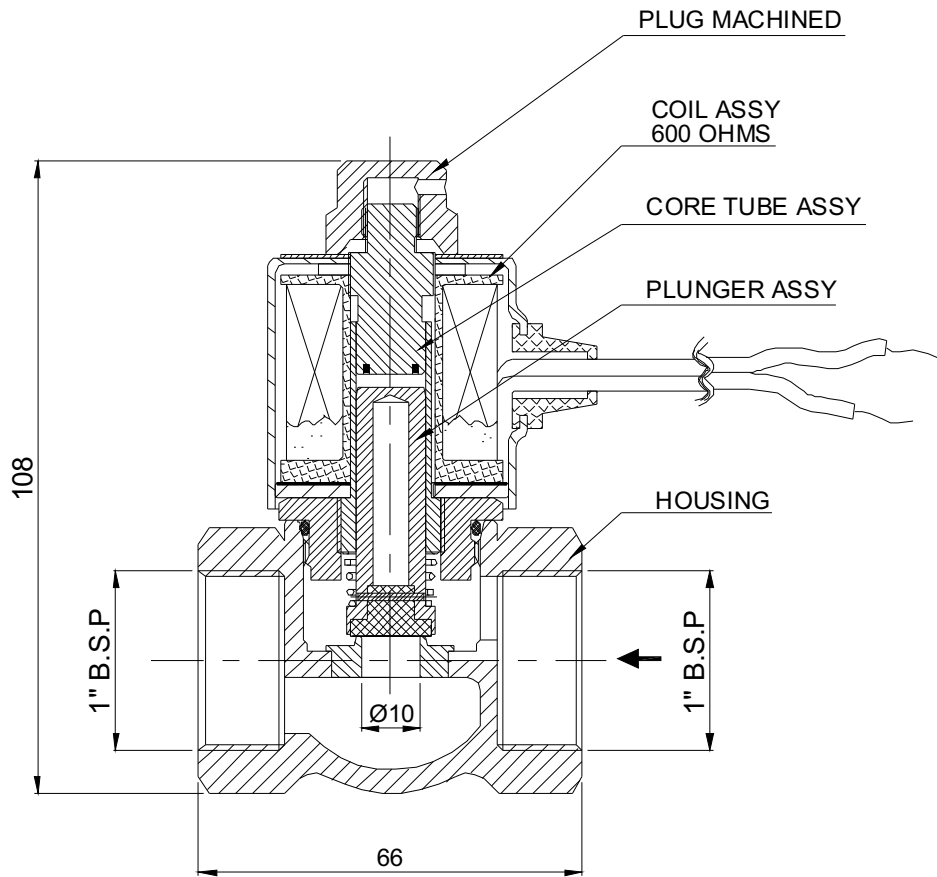
NOTES AND SPECIFICATION:

1. MAX. WORKING PRESSURE : 15 Kg/cm²
2. PILOT AIR SUPPLY : ≥ 3 Kg/cm²
3. TYPE : NORMALLY CLOSED
4. MATERIAL OF CONSTRUCTION : VALVE HOUSING, COVER, PISTON PLUG & GUIDE BUSH, SEAT POPPET-BRASS SEALS : VITON SPRING & ROD ACTUATING - ST. STEEL

TOLERANCE UNLESS OTHERWISE NOTED		UNLESS SPECIFIED ALL DIMS. ARE IN MM	DATE	TITLE
MACHINED SURFACE AS PER IS: 2102		ORIGINALLY DRAWN BY		INSTALLATION 1" P.O.V - NC (PILOT COVER)
DIMS	0.5/6 6/30 30/120 120/315 315/1000	RE-DRAWN BY:		
TOL	± 0.1 ± 0.2 ± 0.3 ± 0.5 ± 0.8	CHECKED BY:		
UN MACHINED SURFACE ± 0.5 ANGULAR ± 1° SURFACE FINISH 3.2 BREAK ALL EDGES 0.1 - 0.25R		APPD. BY:		
 CONCEPT TECHNOSTRUCTURES		PART NO:		
		DRAWING NO:		
		SCALE:		

REV.	E.C.N.#	DESCRIPTION	BY	DATE	APPD.														
<p>SOLENOID COIL</p>																			
<p>NOTES AND SPECIFICATION:</p> <ol style="list-style-type: none"> 1. MAX. WORKING PRESSURE : 15 Kg/cm² 2. PILOT AIR SUPPLY : ≥ 3 Kg/cm² 3. TYPE : NORMALLY CLOSED 4. MATERIAL OF CONSTRUCTION : VALVE HOUSING, COVER, PISTON PLUG & GUIDE BUSH, POPPET SEAT-BRASS SEALS : VITON SPRING & ROD ACTUATING - ST. STEEL <p>ELECTRICAL DETAILS</p> <ol style="list-style-type: none"> 1. VOLTS : 24 VOLT DC 2. COIL INSULATION : CLASS F 3. CONNECTOR AS PER ISO : 4400 																			
<p>TOLERANCE UNLESS OTHERWISE NOTED</p> <p>MACHINED SURFACE AS PER IS: 2102</p> <table border="1"> <thead> <tr> <th>DIMS</th> <th>0.5/6</th> <th>6/30</th> <th>30/120</th> <th>120/315</th> <th>315/1000</th> </tr> </thead> <tbody> <tr> <td>TOL</td> <td>± 0.1</td> <td>± 0.2</td> <td>± 0.3</td> <td>± 0.5</td> <td>± 0.8</td> </tr> </tbody> </table> <p>UNMACHINED SURFACE ± 0.5 ANGULAR ± 1° SURFACE FINISH 3.2 BREAK ALL EDGES 0.1 - 0.25 R</p>			DIMS	0.5/6	6/30	30/120	120/315	315/1000	TOL	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	<p>UNLESS SPECIFIED ALL DIMS. ARE IN MM</p> <p>ORIGINALLY DRAWN BY:</p> <p>RE-DRAWN BY:</p> <p>CHECKED BY:</p> <p>APPD. BY:</p>			<p>DATE</p> <p>TITLE</p>	
DIMS	0.5/6	6/30	30/120	120/315	315/1000														
TOL	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8														
			<p>INSTALLATION</p> <p>1" P.O.V - NC</p> <p>(WITH SOLENOID VALVE)</p> <p>24 V DC</p>																
			<p>t ART NO:</p>																
			<p>DRAWING NO:</p>																
			<p>SCALE:</p>																
<p>CONCEPT TECHNOSTRUCTURES</p>																			

REV.	E.C.N.#	DESCRIPTION	BY	DATE	APPRD.



TOLERANCE UNLESS OTHERWISE NOTED						UNLESS SPECIFIED ALL DIMS. ARE IN MM			DATE	TITLE	
MACHINED SURFACE AS PER IS: 2102						ORIGINALLY DRAWN BY				1" B.S.P LOW PR. HIGH FLOW { h [9bh l5 ë! [ë9	
DIMS	0.5/6	6/30	30/120	120/315	315/1000	RE-DRAWN BY					
TOL	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	CHECKED BY					
UN MACHINED SURFACE ± 0.5 ANGULAR ± 1° SURFACE FINISH 3.2 BREAK ALL EDGES (0.1 - 0.25 R)						APPD. BY					
								PART NO			
								DRG NO			