

## Auto Drain valves



MD Series Drain valves:

HD Series High Discharge Drain valves:

PD Series Drain valves:

### Area of Application:

- ◆ Air Compressor Units / Air Drying Units
- ◆ Air Receiver Tanks / Nitrogen Tanks

- ◆ Compressed Air is An Essential Utility for Manufacturing Plants.
- ◆ Various Machines & Equipments Are being operated by Air Pressure for Continuous & automated Operations.
- ◆ Air supplied to these Equipments should be always free from dirt, rusted particles & condensate Accumulated.
- ◆ Removal of Condensate without Human Efforts is possible with Installation of Automatic Drain valves.
- ◆ Auto drain valves are timer operated solenoid valves with built in strainer inside.
- ◆ With Pre- set timings, condensate accumulated is drained periodically.
- ◆ Strainers with filters restrict the dirt particles being carried out in the solenoid plunger area.
- ◆ High Quality Timers with Wide timing range for 'ON' & 'OFF' Timings would help adjust the valve operation cycles as per quantity of Condensate Accumulation.

### Features:

'Valco' Drain valves are designed to work efficiently taking into consideration common reason of valve failures. Valve Body is manufactured in High Grade Aluminium with Hard anodized coating up to 40 RC which prevent it from wear due to open air installations, maintains good colour stability & finish.

\* **Timers** are being manufactured with quality raw material & Electronics Components which improves the performance reducing early failures.

\* **Solenoid coils** are heavy duty coils made up with high Grade Copper wires & insulations which withstands the voltage fluctuations up to +/- 20 % of the rated supply voltage eliminating the issue of coil burning.

\* **Built in Strainers** with Stainless Steel filtered mesh restricts the particles from Entering into plunger area avoiding the plunger choke up issue.

\* **Wide range of models** with various Flow / Pressure combinations helps select appropriate model.

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## MD Series Drain valves:

- MD series valves are **Direct Acting Solenoid Operated**, Simple & Economical Auto drain valves
- MOC of valve is Surface treated hard anodized Aluminium as standard (brass & SS on request)
- **Supply Voltages:** 230 V AC (110 V AC on request)
- **Test Facility:** Available for valve functionality test during set timings.



### Timer Range:

Timer Model	'ON' Time Range	'OFF' Range
MD Timer	5 Secs - Fixed	2 mins to 240 mins - Adjustable

### Technical Details:

Model No.	Port Connection	Pressure (Kg/cm <sup>2</sup> )	Orifice (mm)	Flow (at 5 Bar pressure)
MD 41	1/2" BSP(F)	0-10	3	9 Litrs / min

## PD Series Drain valves:

- PD series valves are Direct Acting Solenoid Operated valves with various options of Flow / Process connection & Timer range .
- MOC of valve is Surface treated hard anodized Aluminium as standard ( brass & SS on request )
- Supply Voltages : 24 V DC / 110 V AC / 230 V AC



### Timer Range:

Timer Model	'ON' Time Range	'OFF' Range
PD Timer	1-99 Secs-Adjustable	1-99 mins - Adjustable

\*\* (1-99 Hrs available on request )

### Technical Details:

Model No.	Port Connection	Pressure (Kg/cm <sup>2</sup> )	Orifice (mm)	Flow (at 5 Bar pressure)
PD 31	3/8" BSP(F)	0-10	3	9 Litrs / min
PD 32	3/8" BSP(F)	0-16	2.5	6 Litrs / min
PD 41	1/2" BSP(F)	0-10	3	9 Litrs / min
PD 42	1/2" BSP(F)	0-16	2.5	6 Litrs / min

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### HD Series High Discharge Drain valves:

- ◆ PS series valves **External Air Operated valves** for high flow Discharge requirement. **External source of Air is required to be provided to operate these valves.**
- ◆ MOC of valve: Cast steel / SS 304 / SS 316
- ◆ Supply Voltages: 24 V DC / 110 V AC / 230 V AC



### Timer Options & Range for These valves:

Timer Model	'ON' Time Range	'OFF' Range
MD Timer	5 Secs - Fixed	2 mins to 240 mins - Adjustable
PD Timer	1-99 Secs - Adjustable	1-99 mins - Adjustable

### Technical Details:

Model No.	Value Size	Pressure (Kg/cm <sup>2</sup> )	Orifice (mm)	Flow (at 5 Bar pressure)
MS 41	1/2" BSP(F)	0-10	12	75 Litrs / min
PS 41	1/2" BSP(F)	0-10	12	75 Litrs / min
MS 51	3/4" BSP(F)	0-10	20	100 Litrs / min
PS 51	3/4" BSP(F)	0-10	20	100 Litrs / min
MS 61	1" BSP(F)	0-10	25	150 Litrs / min
PS 61	1" BSP(F)	0-10	25	150 Litrs / min

\* M - MD Timer / P - PD Timer

# Auto Drain valves

## FD Series Drain valves:

- ◆ FD series valves are **Direct Acting Diaphragm Operated** valves for high flow requirement
- ◆ These valves are suitable for application which demands **High flow discharge** without any supplementary air operator
- ◆ MOC of valve is Surface treated hard anodized Aluminium as standard (brass & SS on request)
- ◆ **Supply Voltages:** 24 V DC / 110 V AC / 230 V AC




## Timer Options & Range for These valves:

Timer Model	'ON' Time Range	'OFF' Range
MD Timer	5 Secs - Fixed	2 mins to 240 mins - Adjustable
PD Timer	1-99 Secs - Adjustable	1-99 mins - Adjustable



## Technical Details:

Model No.	Port Connection	Pressure (Kg/cm <sup>2</sup> )	Orifice (mm)	Flow (at 5 Bar pressure)
MFD 31	3/8" BSP(F)	0-10	12	75 Litrs / min
* this model is provided with MD Timer				
PFD 31	1/2" BSP(F)	0-10	12	75 Litrs / min
* this model is provided with PD Timer				

### Product Precautions During installation & Maintenance:

- \* Ensure to install the valve as per flow direction  marked on valve body
- \* Please check the supply Voltage sticker on Coil & Ensure if connected to same supply. Connecting to Wrong supply may lead to Burn the Solenoid Coil
- \* Direct acting series valve models like MD,PD, FD are not advised for areas where Condensate Accumulated will carry 'dirt particles, sludge or rusted particles in large Quantity. It may lead to Frequent choke ups & passing of valves. Kindly Use High discharge PS Models for such requirements.
- \* Built in Strainers are recommended to be Cleaned periodically to avoid valve Choke ups due to dirt.
- \* Please do Consult the concerned Person for doubt if any about functioning of valve instead of Trying to repair at your end which may lead to void the warranty of Product .

### Timer Setting instructions for PD Timer:

- \* Connect the valve to rated Electrical Connection (factory set display will appear)
- \* Press 'SET' Button Once (RED light on timer will start blinking for Setting 'OFF' time)
- \* SET first digit of desired 'OFF' time from range of 1-99 mins by pressing  button
- \* Press 'SET' button to save first digit (second digit will start blinking now)
- \* SET second digit using  button to desired digit
- \* Press 'SET' to save 'OFF' time (Green light on timer will start blinking now for setting 'ON' time)
- \* Now follow above steps to SET desired 'ON' time
- \* Switch OFF the timer & Switch it on to make SET timings Operational

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