

# Condensate Drain Valves

TIMER OPERATED DRAINS, ELECTRIC NO-LOSS DRAINS, PNEUMATIC NO-LOSS DRAINS



# Condensate Drain Valves

## WHY YOU NEED RELIABLE DRAIN VALVES

All compressed air systems produce internal condensate that, if not properly drained, can cause equipment damage, downtime and wasted man-hours. Drain valves automatically discharge accumulated fluids from air compressors, after coolers, filters, dryers, drip-legs, receivers, separators and other collection points. A drain valve should be installed at each of these liquid collection points. The installation of drain valves will ensure a compressed air system free from the damaging effects of liquid and sludge.

## NLD SERIES PNEUMATIC NO-LOSS DRAIN VALVES

### Save Thousands of Dollars with No-Air-Loss Drains

NLD Series drain valves are fully automatic; no electricity is required. Their low profile gives you the advantage of installing in areas where the vessel to be drained is only a few inches from the ground.

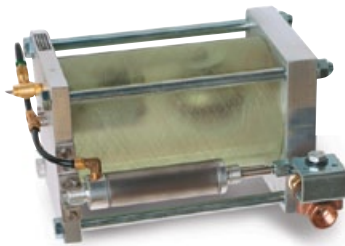
### No-Loss Drains Pay for Themselves

When considering the cost difference between No-Loss Drains and other drain types you need to consider the operating costs of the wasted compressed air and the cost of maintaining timer type and other fixed cycle drains.

### The Ultimate Demand Drain Saves You Money

#### Models NLD24 & NLD24T:

- Unique air valve design uses a magnetic force to ensure both a positive opening and closing that will prevent any air loss – eliminates the need for the installation of a vent line in most applications
- Innovative ball support and positioning system prevents the side loading problem which otherwise could cause premature sealing failure around the valve stem
- Non-clogging ball valve ensures that rust and scale will exit – no strainer is required
- Manual test button provides confirmation of valve operation (model NLD24-T only)
- See-Through Vessel
- Low Profile - Compact Design
- Fully Pneumatic
- Completely Self Contained
- Operates On Demand
- Non-Clogging Ball Valve
- No Waste, Air
- No Strainers to Clean



### Economy & Performance

#### Model NLD12:

- Vent adapter prevents air locking and makes installation easy
- Long lever ensures the float will open the drain when required and provide a high closing pressure to prevent the valve seat from leaking
- Valve seat location prevents solid particulates from interfering with drain operation
- Manual valve allows drain to be cleaned without removing from service
- Lightweight design can be installed without mounting brackets



## NLD ELECTRONIC SERIES DRAIN VALVES

### Save Thousands of Dollars with No-Air-Loss Drains

NLD Series demand type drain valves save operating cost by eliminating the loss of compressed air that timer operated drains use to discharge condensate.

### See-Through Vessels

#### Models NLD8 & 21:

- See-through vessel provides visual assurance of operation.
- Drain operates only when vessel is full of condensate
- Straight-through flow design passes rust and scale that would foul other types of valves – no strainer to clean
- Control stem is coated to ensure smooth, consistent cycling.
- Stainless steel float operates in both water and oil



## PDV SERIES AUTOMATIC DRAIN VALVES

### Most reliable, economical, and energy-efficient valves

- Automatic operation – Requires no operator attention, avoids potential liquid carryover
- No floats or linkages – Operation free from sticking or binding
- Oversized drains – Quickly and easily drains liquid and sludge. Not subject to plugging
- Sealed solid state circuitry – Dependable, maintenance-free, unattended operation
- Adjustable cycle time and drain time – Minimizes compressed air losses associated with open bleeds
- Flexibility to accommodate a range of liquid loading
- Nema 4 – Installation in indoor & outdoor locations
- UL listed – Reliable operation
- Enclosure – Meets or exceeds Nema 1,3,4,12 and is suitable in lieu of NEMA 7 for Class 1 Division 2 locations
- Electrical Connections – Supplied with adaptors for either 1/2" conduit connection or customer-supplied cord and plug



*The PDV 100 is designed for small flow compressed air system (to 400 SCFM) with low contaminant*

*The PDV 400 is designed for all compressed air systems, regardless of flow or contaminant loading*

## ECONOMY ADV SERIES

### AUTOMATIC DRAIN VALVES

#### Cost effective - Dependable operation

- 2 timing adjustments – most accurate performance
- Valve on/off indicator lights
- Manual push to test button
- Compact Size and lightweight
- Optional Strainer available
- 6 ft. Power Cord



## MBV MOTORIZED SERIES DRAIN VALVES

### Maximum dependability and value in a system

- No operator attention needed
- Battery back-up - fails closed
- Anti blockage feature with indicator
- Power on/Valve open (rotating)
- LED indicator
- Weatherproof
- 6 ft. Power Cord
- Manual Push to Test
- Timer adjustment to match contaminant load
- No clogging
- Low energy use
- Handles heavy contaminants
- Broad range of applications



## SAVINGS CALCULATOR

DIAMETER OF DRAIN ORIFICE (INCHES)	1/32	1/16	1/8	1/4	3/8
SCFM Lost	1.6	6.5	26	104	234
Annual Savings (dollars)	\$63	\$661	\$2,643	\$10,572	\$23,787

## NO-LOSS DRAINS

Model	Catalog Number	Supply	Aftercooler Capacity	Refrigerated Air Dryer Capacity	Prefilter & Coalescer Capacity	Operating Pressure		Temperature		Connections		Weight lbs
			SCFM @ 100 psig Ambient	SCFM @ 100 psig Ambient	SCFM @ 100 psig Ambient	Min/Max psig	Min/Max °F	Inlet NPT - f	Outlet NPT - f			
NLD8	3044474	115/1/60	450	900	2,700	0-200	34-180	(2) 1/2"	1/4"		5	
NLD12	7410591	Internal Pilot	122 gph	122 gph	122 gph	0-250	34-180	1/2"	1/2"		8	
NLD21	3044475	115/1/60	1,125	2,250	6,750	0-200	34-180	3/4", 1/2"	1/4"		10 1/2"	
NLD24	3044468	90-130 PSIG	2,200	4,400	13,200	0-250	34-180	(2) 3/4"	1/2"		18	
NLD24T	3044467	90-130 PSIG	2,200	4,400	13,200	0-250	34-180	(2) 3/4"	1/2"		18	

## TIMER & MOTORIZED BALL VALVE DRAINS

Model	Power Supply	Operating Pressure	Temperature	Connections Inlet	Connections Outlet	Orifice inches	Weight lbs
		Min/Max psig	Min/Max °F	NPT - f	NPT - f		
ADV1611	120/1/60	0-250	34-140	1/4"	1/4"	1/8"	1/2
ADV1711	120/1/60	0-300	34-140	1/4"	1/4"	7/16"	1
ADV1811	120/1/60	0-300	34-140	1/2"	1/2"	7/16"	1
ADV1723	230/1/60	0-300	34-140	1/4"	1/4"	7/16"	1
ADV1823	230/1/60	0-300	34-140	1/2"	1/2"	7/16"	1
PDV100	120/1/60	0-360	34-140	1/4"	1/4"	3/32"	2 1/4
PDV400	120/1/60	0-230	34-140	1/2"	1/2"	5/8"	3
MBV500	115/1/60	0-600	34-140	1/2"	1/2"	5/8"	2 1/2
MBV1000	115/1/60	0-600	34-140	1"	1"	5/8"	2 1/2

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