



## Condensate Drain Valves

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**Timer Operated Drains**

**Electric No-Loss Drains**

**Pneumatic No-Loss Drains**



# Legendary Poppet Valves – Unrivalled Performance

## 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.

## 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.

## 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

SCFM and PSID at 100 PSIG, \$.07 KW/hr

## NLD Series Pneumatic No-Loss Drain Valves

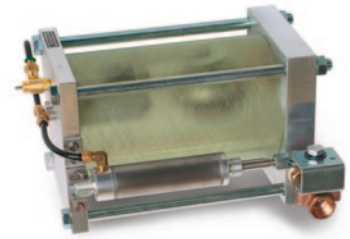
### Save Thousands of Dollars with No-Air-Loss Drains

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.

### 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 NLD1:

- 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



# Simple and Durable

## 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



## Maximum dependability and value in a system

### *MBV Motorized Series Drain Valves*

- 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





# Functions, Features & Specifications

## No-Loss Drains

Model	Catalog Number	Power Supply	Aftercooler Capacity SCFM@ 100 psig Ambient 100°F-100%Rh	Refrigerated Air Dryer Capacity SCFM@100 psig Ambient 100°F-100%Rh	Prefilter & Coalescer Capacity SCFM@100 psig Ambient 100°F-100%Rh	Operating Pressure Min/Max psig	Temperature Min/Max °F	Connections Inlet NPT - f	Connections Outlet NPT - f	Weight lbs.
NLD1	3044478	Internal Pilot	122 gph	122 gph	122 gph	0-250	34-180	1/2"	1/2"	3
NLD8	3044474	115/1/60	450	900	2,700	0-200	34-180	(2) 1/2"	1/4"	5
NLD21	3044475	115/1/60	1,125	2,250	6,750	0-200	34-180	3/4", 1/2"	1/4"	10 1/2
NLD15	3146126	Internal Pilot	1,500	3,000	8,800	0-200	34-180	1/2"	1/2"	8
NLD24	3044468	80-120 PSIG	2,200	4,400	13,200	0-250	34-180	(2) 3/4"	1/2"	18
NLD24T	3044467	80-120 PSIG	2,200	4,400	13,200	0-250	34-180	(2) 3/4"	1/2"	18

## Timer & Motorized Ball Valve Drains

Model	Catalog Number	Power Supply	Operating Pressure Min/Max psig	Temperature Min/Max °F	Connections Inlet NPT - f	Connections Outlet NPT - f	Orifice inches	Weight lbs.
ADV1611	3044463	120/1/60	0-250	34-140	1/4"	1/4"	1/8"	1/2
ADV1711	3044464	120/1/60	0-300	34-140	1/4"	1/4"	7/16"	1
ADV1811	3044466	120/1/60	0-300	34-140	1/2"	1/2"	7/16"	1
ADV1723	3067896	230/1/60	0-300	34-140	1/4"	1/4"	7/16"	1
ADV1823	3044709	230/1/60	0-300	34-140	1/2"	1/2"	7/16"	1
Strainer 1/4"	3044470	-	0-300	34-140	1/2"	1/4"	-	1
Strainer 3/8"	3044471	-	0-300	34-140	1/2"	1/2"	-	1
Strainer 1/2"	3044472	-	0-300	34-140	1/2"	3/8"	-	1
PDV100	3143874	120/1/60	0-360	34-140	1/4"	1/4"	3/32"	2 1/4
PDV400	1216372	120/1/60	0-230	34-140	1/2"	1/2"	5/16"	3
MBV500	3104544	115/1/60	0-600	34-140	1/2"	1/2"	5/16"	2 1/2
MBV1000	3122963	115/1/60	0-600	34-140	1"	1"	5/16"	2 1/2

## Pneumatic Products' Dehydration Technologies

- Blower Purge Dryers
- Breathing Air Purifiers
- CNG Purification System
- Externally Heated Air Dryers
- Heat-Les™ Air Dryers
- Heat-of-Compression Air Dryers
- Internally Heated Air Dryers
- Refrigerated Air Dryers



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