

A Complete Line Of Drain Valves To Fit Every Compressed Air Condensate Removal Application

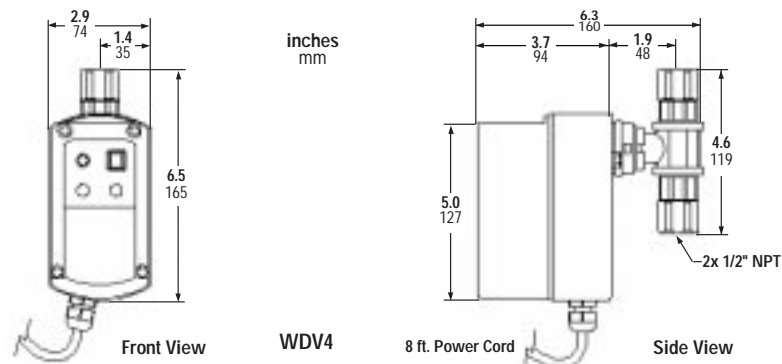
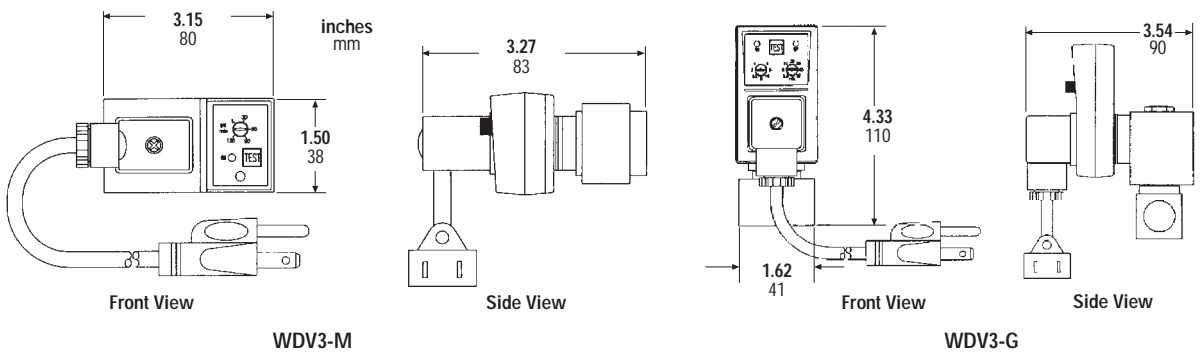
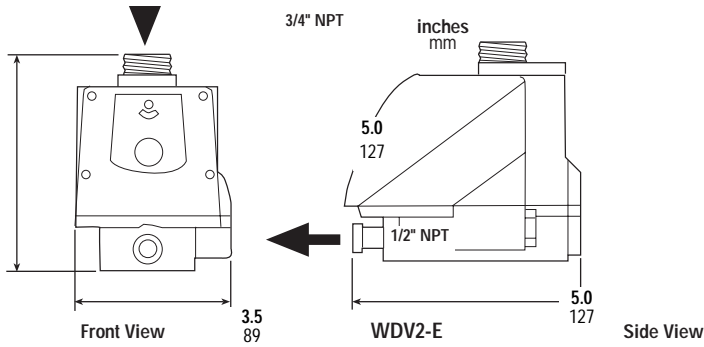
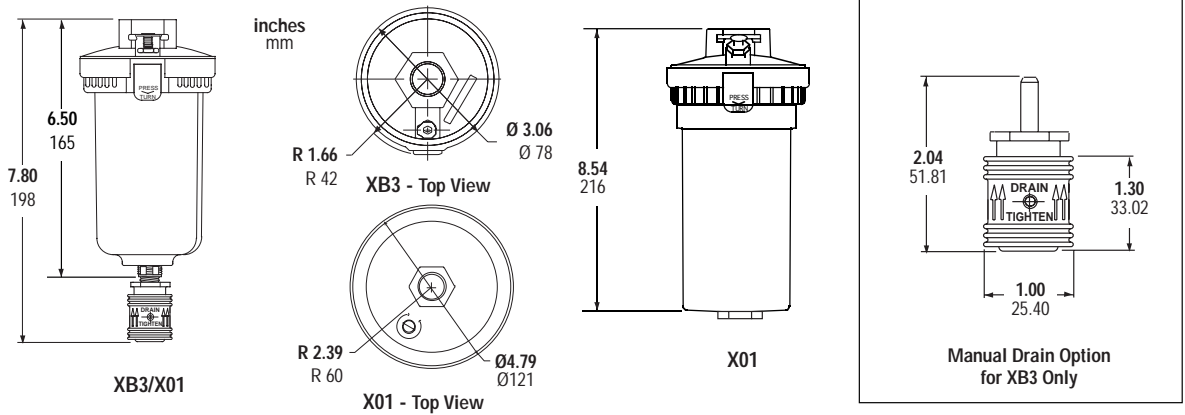
Innovative Compressed Air Products



Condensate Drain Valves

Leading Edge Technology

Dimensions

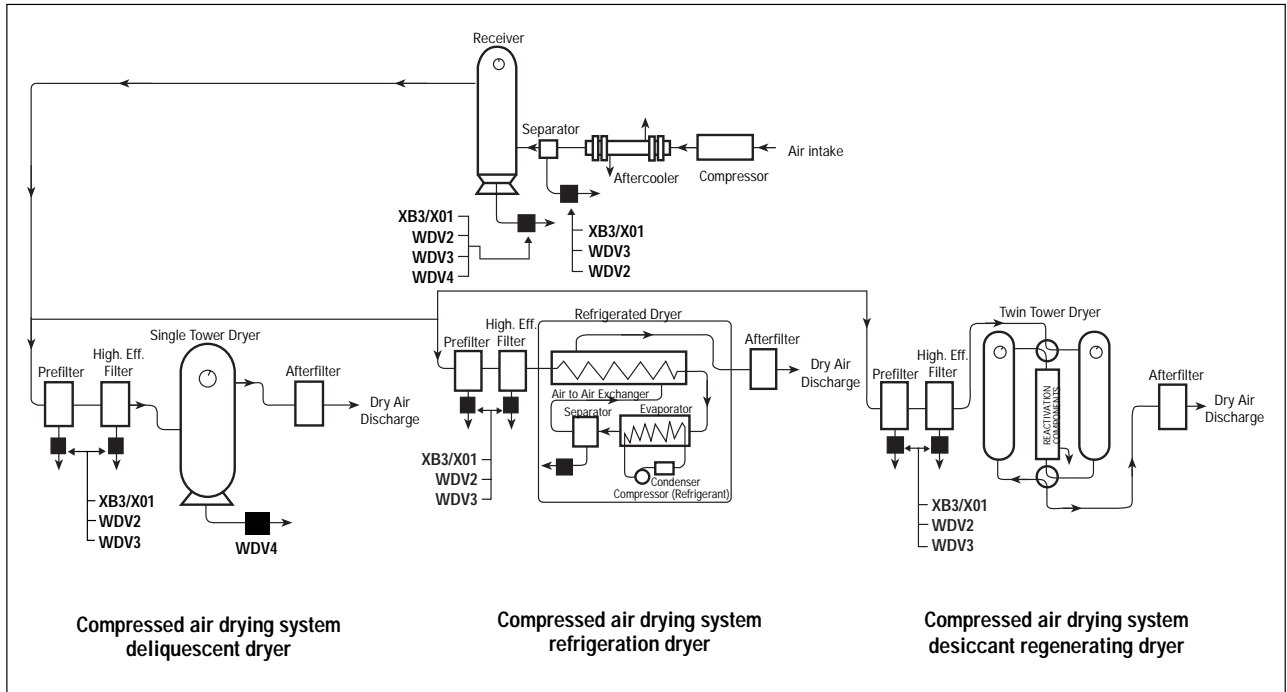


Why Use Drain Valves

One of the most problematic contaminants in your compressed air system is the condensate from your compressors, aftercoolers, receivers, filters, and dryers. Condensate consists of compressor oil, condensed water, dirt, and other contaminants that are being introduced into the inlet of the compressor. Condensate, if not properly removed from the system, can be detrimental to your process and result in downtime and equipment failure.

That is why Wilkerson has developed a comprehensive line of condensate drain valves to suit all your condensate removal applications. The following chart shows suggested uses for each type of valve.

XB3/X01	WDV2	WDV3	WDV4
Mechanical Drain	Demand Drain	Electric Timer Drain	Motorized Ball Valve Drain
Receiver Tanks	Receiver Tanks	Receiver Tanks	Receiver Tanks
Separators	Separators	Separators	Deliquescent Dryers
Filters	Filters	Filters	
Drip Legs	Refrigerated Dryers	Refrigerated Dryers	
	Drip Legs	Drip Legs	



XB3/X01 Mechanical Drain

The XB3/X01 Mechanical Drains are designed to automatically remove liquid, oil, and water contaminants from compressed air system components.

Liquid contaminants collected in the bowl cause the float mechanism to rise. When the liquid reaches a specific level, the float actuates the pilot drain orifice which allows line pressure to open the valve and evacuate the liquid/particulate contaminants. As the liquid level falls, the float closes the pilot drain orifice prior to the loss of any air from the system.

A manual override is provided as an option which allows for drainage of the system on demand. To drain, simply push up on the attachment. Pull attachment back down when draining is complete. The manual override only adds 1.3" to the total length of the unit. *(Available on the XB3 only.)*

Operating Conditions		Features	Benefits
Maximum operating pressure	200 psig (14 bar)	No air loss	Energy efficient
Maximum fluid temperature	175°F (79°C)	Efficient bowl size with large quiet zone	No re-entrainment of liquid back into the air stream
		Manual override option	Drain on demand
		Metal bowl	Compatible with all compressor lubricants and high pressure 200 psig (14 bar)
		Float type operation	No electricity needed

Standard Specifications: Mechanical Drain

Inlet Pipe Size	1/2" NPT
Drain Connections	1/8" NPT
Drain Orifice	1/8"
Bowl Capacity	5 oz. and 32 oz.
Maximum Drain Rate	1.3 GPM and 2.5 GPM
Bowl	Zinc
Float	Plastic with Stainless Steel Internals
Manual Override	Brass

Manual Override
for XB3 only

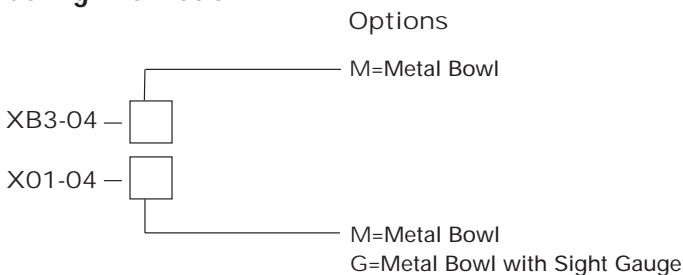


XB3



X01

Ordering Information



WDV2 Demand Drain

The WDV2 Electronic Demand Drain Valves, with zero air loss, are suitable for all compressed air system applications from aftercoolers to filters to receivers to refrigerated dryers. This line of drain valves activate automatically and are both reliable and economical.

Condensate (water, oil, and dirt) collect in the sump while the diaphragm is held closed by system pressure. As soon as the top sensor detects liquid, the solenoid energizes. The chamber above the diaphragm deflates and the condensate is driven out by system pressure. A timer is activated which allows a specific amount of condensate out and closes before any air is lost. If the unit gets clogged with a slug of condensate and scale, it will pulse to push that slug out of the valve and allow it to continue working properly. If the slug cannot be removed after a set period of time, an alarm light and contact will signal a problem.

Operating Conditions

Maximum operating pressure	230 psig (16 bar)
Fluid temperature	33-140°F (0-60°C)
Ambient temperature	33-140°F (0-60°C)

Features

No air loss
Automatically self-adjusting for voltages from 24-230V AC/DC
Sensor device with no moving parts
Sophisticated electronic controls
Alarm with remote contacts
Large inlet port to eliminate clogging
Manual push-to-test button
Automatically clears slugs

Benefits

Energy efficient
World wide applications
Long Life
High Reliability
Versatility, early warning
Low maintenance
On demand operation
Maintenance free

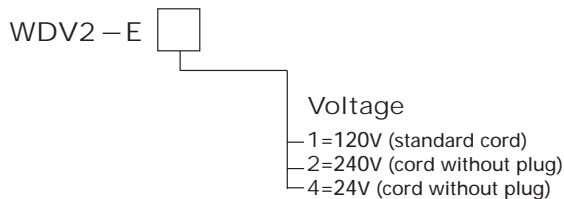
Standard Specifications: WDV2-E

Voltage	24-240V AC/DC, 50/60 Hz
Drain Volume	0.01 gallons/cycle



WDV2-E

Ordering Information



WDV3 Electric Timed Drain

Wilkerson has developed two electrical timed drains: the *mini* and the *general*. The mini is ideal for smaller filters. The general is more suited for larger filters, refrigerated dryers, receiver tanks, and other general purpose applications.

Both drain valves feature state of the art electronic timers and brass valve body as standard. The general is also available in corrosion free stainless steel and high pressure.

Operating Conditions

Maximum operating pressure	230 psig (16 bar)
	1200 psig (80 bar) (general only)
Fluid temperature	33-190°F (0-87°C)
Ambient temperature	33-130°F (0-54°C)

Features

Reliable operation
Solid state timer—surface mount technology vs. failure prone pin soldering
Nema 4
Manual push-to-test button (true micro-switch)
Class H coil insulation
Can be mounted in any position
UL, CSA, and CE certified vs. non-certified
Direct acting valves
Dual surge protectors in timer vs. one or none in competitor's units.
Indicating lights of valve open and closed
Plug prongs fastened to steel backing plate vs. glued to electronic board, causing board failure

Benefits

No down time
High reliability, no board shorting
Indoor/outdoor application
Reliable test on demand
Higher temperatures longer lasting
Versatility in Installation
World wide applications
More positive closure - no clogging
Continues to work even in adverse electrical conditions
Visual indication of operation
High Reliability

Standard Specifications: Mini

Cycle time	1 to 120 minutes
Open time	2 seconds fixed
Power cord w/plug	6 ft. heavy duty
Seals	Viton
Enclosure	ABS plastic
Valve body	Brass
Power rating	4MA maximum
Voltage	24-240V AC/DC, 50/60 Hz



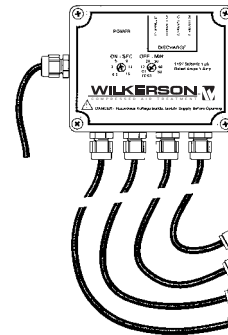
WDV3-M



WDV3-G

Standard Specifications: General

Cycle time	30 seconds to 45 minutes
Open time	1/2 to 10 seconds
Power cord w/plug	6 ft. heavy duty
Seals	Viton
Enclosure	ABS plastic
Valve body	Brass/Stainless Steel
Power rating	4MA maximum
Voltage	24-240V AC/DC, 50/60Hz

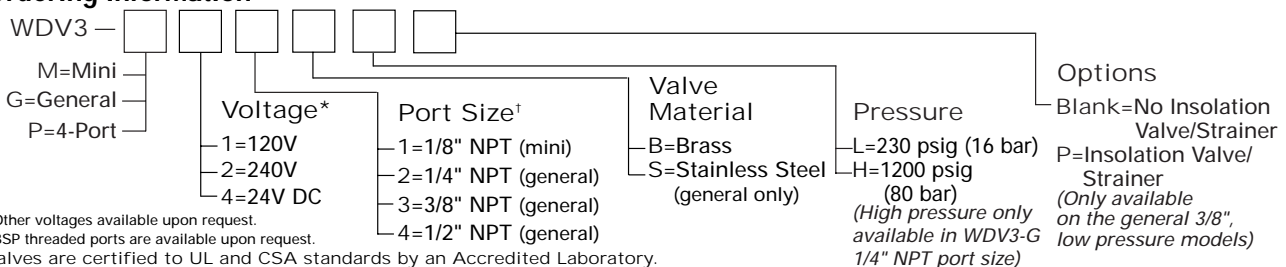


**Wilkerson®
WDV3-P
4-Port**

- 1 Aftercooler
- 2 Pre-Filter
- 3 Receiver Tank
- 4 Dryer

The Wilkerson "4-Port" automatically controls up to four independent solenoid drains. Wilkerson realizes the need to have Electric Timed Drain Valves operate at various intervals, therefore, the four connections are designed to operate independently with separate "open" (0-15 seconds) and "dwell" (1-50 minutes) control dials. The controller will not allow more than one drain to open at a time, thus it will not deplete the system of air pressure, or allow back flow due to differential pressure. (Check price sheet for availability of solenoid valves.)

Ordering Information



*Other voltages available upon request.
†BSP threaded ports are available upon request.
Valves are certified to UL and CSA standards by an Accredited Laboratory. (120V and 240V units are fully UL listed.)

WDV4 Motorized Ball Valve Drain

When pipe scale, contaminants from deliquescent dryers or other large particles present in your condensate keep plugging or holding open your common drain valve, it's time for the WDV4 motorized ball valve drain from Wilkerson. This valve is designed to handle all types of contaminants without clogging or sticking open. It consists of a 1/2" full-flow ball valve with an electric timer/motor. The internal timer is adjustable from 4 minutes to 24 hours, and the valve will perform one full rotation in 7.5 seconds. Battery backup will provide continued operation in the event of a power failure.

Operating Conditions

Maximum operating pressure	300 psig (20 bar) @ 190°F (87°C) 500 psig (35 bar) @ 130°F (54°C) 600 psig (40 bar) @ 75°F (24°C)
Maximum fluid temperature	33-190°F (0-87°C)
Maximum ambient temperature	33-122°F (0-50°C)

Features

Designed for heavy duty applications
High pressure capabilities
Microprocessor Based Electronics
Weatherproof enclosure
Battery back up protection against power failure (not available on competitors units)
Double o-ring seal on valve shaft vs. competitors with only one o-ring seal
Corrosion resistant valve coating
10 programmable settings from 4 minutes to 24 hours vs. competitors dip switch selections from 6 to 10 hours
Manual test button
Valve open and program indicator
Anti-blockage system to protect motor

Benefits

Reliable-Long life
Versatile applications
High reliability
Indoor/outdoor operation
Continuous operation
No leak of condensate into electronics
Can be used in harsh environments like deliquescent dryers
Versatility
On demand operation
Visual indication of operation
Motor will not burnout even under adverse conditions

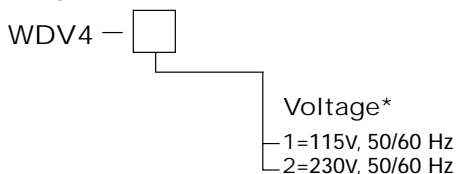
Standard Specifications

Cycle time	4 minutes - 24 hours
On time	7.5 seconds
Programmed settings	10
Valve	Nickel Plated Brass with Stainless Steel Ball
Connections	1/2" NPT (Other sizes available upon request)
Valve sealing	Viton o-rings with teflon seal
Voltage	115/230V AC 50/60 Hz
<small>(Consult factory for other available voltages)</small>	
Enclosure	Non-corrosive plastic



WDV4

Ordering Information



*Other voltages available upon request.

Distributed Worldwide

Wilkerson Corporation offers a complete line of innovative fluid power products with features and operating characteristics that meet customer expectations of quality, performance, reliability and value. Wilkerson representatives are located in most major cities throughout the world with additional manufacturing and sales affiliates in North and South America, Europe, Africa, Asia and the Pacific Rim Basin.

Isolation Valve/Strainer



Isolation Valve/Strainer Eliminates valve clogging. Includes a ball valve and strainer in one with a 1/2" NPT inlet port and a 3/8" NPT outlet port. Allows customer to block flow to drain valve and clean strainer without disconnecting from system. (Other outlet connections available upon request.)

Other Innovative Wilkerson Products

WILKERSON
CORPORATION

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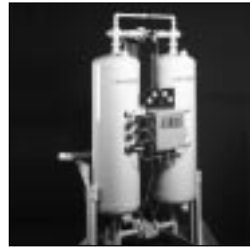
Wilkerson Europe
Bonnenbroicherstr. 11-15
D-41236 Mönchengladbach
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Tel 49-2166-92197-0
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WRD

Refrigerated Dryers

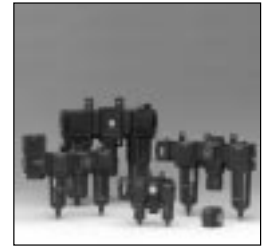
A full line of high quality refrigerated dryers with features and benefits unmatched by the competition. Designed to produce dew points as low as 35°F in compressed air.



WDH

Desiccant Dryers

A complete line of desiccant dryers for the removal of water vapor in compressed air to dew points as low as -100°F.



FRL

Filters

A full range of filters including: coalescing, particulate and activated charcoal for the removal of water, oil and particulates from compressed air.



WILKERSON CORPORATION
REGISTERED TO ISO 9001
CERTIFICATE NO. A2192



Certificate No. _____



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Recycle

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P r i n t e d

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