

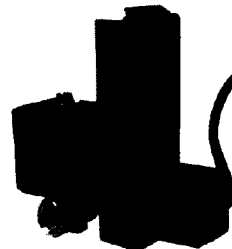


DVT Series Drain Valves

M-4216/0505



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CAUTION

1. PRESSURIZED DEVICES

This equipment is a pressure containing device.

- Do not exceed maximum operating pressure.
- Make sure equipment is depressurized before working on or disassembling it for service.

2. ELECTRICAL

This equipment requires electricity to operate.

- Install equipment in compliance with national and local electrical codes.
- Standard equipment is supplied with NEMA 4 electrical enclosures and is not intended for installation in hazardous environments.
- DISCONNECT POWER SUPPLY TO EQUIPMENT WHEN PERFORMING ANY ELECTRICAL SERVICE WORK.**

I. GENERAL

Description: The Automatic Electric Drain is an electrically operated solenoid valve. The valve is controlled by a solid state electronic timer that can be programmed within the following limits:

Valve Open Time: Minimum 1.0 second
Maximum 15 seconds

Valve Closed Time: Minimum 1.0 minute
Maximum 45 minutes

The valves can be used to discharge collected liquids from receivers, separators, drip legs, dryers, filters and other pneumatic equipment. They can also be used for other gas and liquid applications requiring periodic flow for a preset time period.

II. INSTALLATION

A. Preparation: Remove inlet and outlet thread protectors.

B. Location: Do not install where ambient temperatures are greater than 120°F (48.8°C). Make sure the electrical enclosure is sufficient for the operating environment.

C. Physical Arrangement:

Drain may be installed in any position (upside down or at any angle). Inlet/outlet connections are adjustable 360°. Solenoid coil is adjustable 180°. Cord set is adjustable 360°.

D. Piping:

1. Flow direction: Install so that flow direction is in the direction of the arrow stamped on the valve.
2. Use pipe sealant or teflon tape when installing piping into inlet/outlet valve ports
3. When used as a condensate discharge valve, follow these instructions:
 - a. Inlet piping: The Inlet pipe to the valve should not be smaller than the Inlet connection so that flow is not restricted. A strainer to protect valve from heavy particulate contamination and an isolation valve for ease of valve servicing may be added to the piping ahead of the valve. Install drain below level of device being drained where possible to allow condensate to flow to drain by gravity.
 - b. Outlet piping: Piping may run from the outlet connection to an adequate sump or floor drain. Make sure the line to drain is not obstructed.

(NOTE: Liquid discharge is at system pressure and may require that the line be anchored.)

E. Electrical Connections:

1. Power supply: Make sure that power supply matches power requirements of valve.
2. A six foot, three-wire grounded power cord is supplied.
3. Power rating: 20 Watt.

III. OPERATION

A. Programming Timer

1. Valve open time: Valve open time is in seconds. To set "valve open" time, move slot on left hand knob to align with desired valve open time.
2. Valve closed time is in minutes. To set "valve closed" time (time between Drain cycles), move slot on right hand knob to align with desired valve closed time.



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OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR **WARRANTY** RETURNS, please have the following information available BEFORE contacting OMEGA:

1. Purchase Order number under which the product was PURCHASED.
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair charges. Have the following information available BEFORE contacting OMEGA:

1. Purchase Order number to cover the COST of the repair,
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems relative to the product.

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