

Model AD-3 Automatic Drain Valve Trim Component for DV-5A Automatic Water Control Valves

IMPORTANT

Refer to Technical Data Sheet TFP2300 for warnings pertaining to regulatory and health information.

Scan the QR code or enter the URL in a web browser to access the most up-to-date electronic version of this document. Data rates may apply.



docs.jci.com/tycofire/TFP1633

General Description

The Tyco Model AD-3 Automatic Drain Valve is designed for use with TYCO DV-5A Automatic Water Control Valves. Provided as a trim component for these valves, the Model AD-3 Automatic Drain Valve is used to automatically drain the normally dry alarm lines. In operation, the Model AD-3 Drain Valve is normally open to atmosphere to provide a visual indication of properly set water and/or air seats within the DV-5A.

NOTICE

The Model AD-3 Automatic Drain Valve described herein must be installed and maintained in compliance with this document, as well as with the applicable standards of the NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), in addition to the standards of any authorities having jurisdiction. Failure to do so may impair the integrity of this device.

The owner is responsible for maintaining their fire protection system and devices in proper operating condition. Contact the installing contractor or product manufacturer with any questions.

Technical Data

Approvals

The TYCO Model AD-3 Automatic Drain Valve forms a part of the overall approvals given in the applicable technical data sheets for the TYCO DV-5A Automatic Water Control Valve.

Maximum Pressure

300 psi (20,7 bar)

Physical Characteristics

Inlet Connection Nipple	Galvanized Steel
Body	Brass
Ball	Stainless Steel
O-Ring	Buna-N Rubber
Set Screw	Brass
Spring	Stainless Steel
Spring Retaining Ring	Stainless Steel
Plunger	Brass
Outlet Nipple	Stainless Steel

Operation

The TYCO Model AD-3 Automatic Drain Valve is normally open to atmosphere. In the open position, it maintains the alarm line trim of the DV-5A Automatic Water Control Valve at 0 psig until the system operates. When the Model AD-3 Automatic Drain Valve is in the normal open position, this valve provides a visual indication that water and/or air seats within the DV-5A valves are properly set. Leakage or discharge from the Model AD-3 Automatic Drain Valve provides an indication of a problem requiring correction within the DV-5A Automatic Water Control Valve.

Upon system operation and flow of water through the alarm trim to the alarm devices, the Model AD-3 Automatic Drain Valve automatically closes upon increasing flow between 2 gpm to 10 gpm (8 Lpm to 38 Lpm), which will then divert waterflow pressure to the alarm devices such as a pressure alarm switch or water motor alarm. When the Model AD-3 Automatic Drain Valve is closed and pressurized, a small



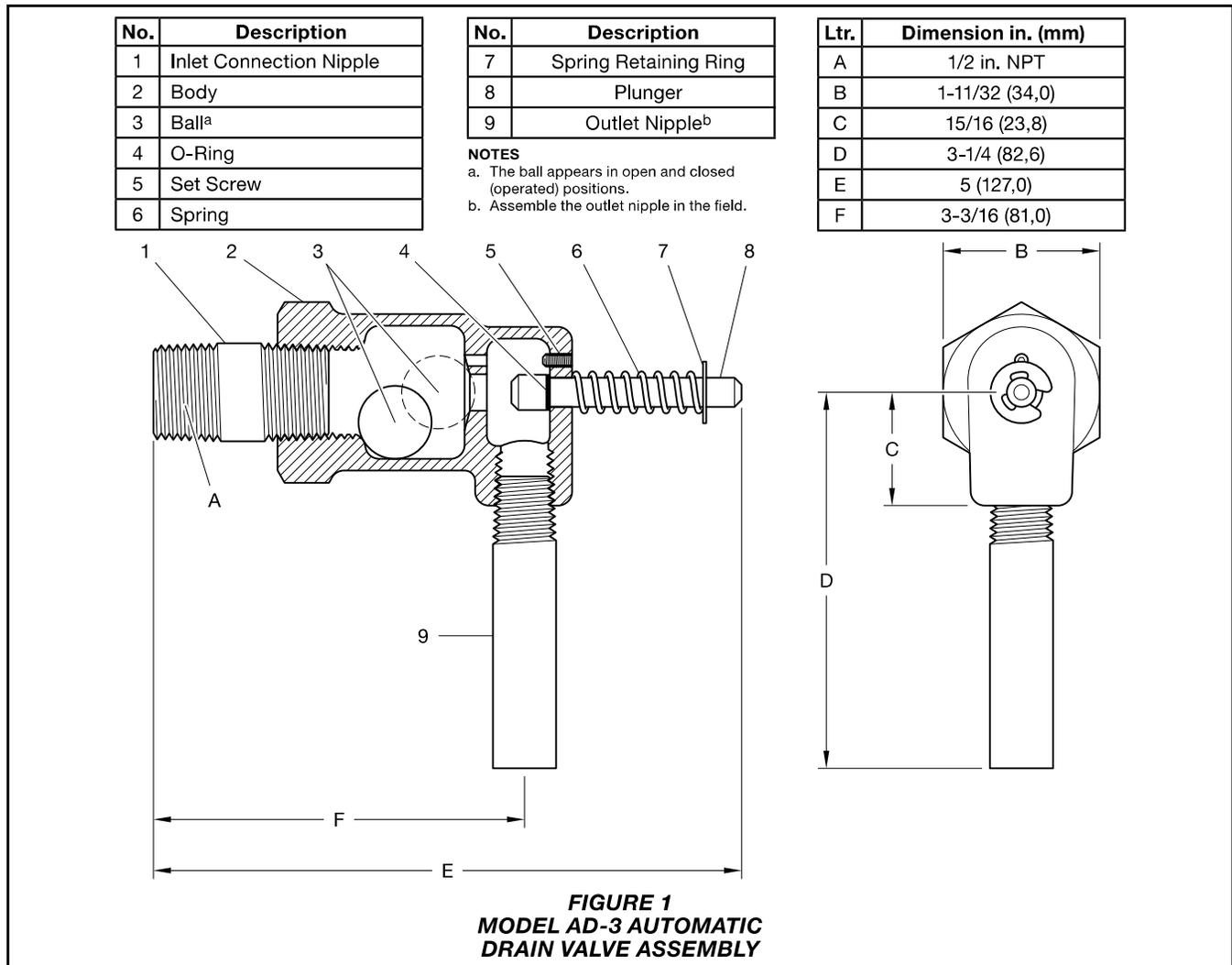
leakage through the bypass orifice is normal, wherein flow equals 0.2 psi^{1/2}.

After system operation and upon draining the system, the Model AD-3 Automatic Drain Valve automatically opens at a pressure between 0.5 psig to 2.0 psig (0,03 bar to 0,14 bar).

The plunger on the Model AD-3 Automatic Drain Valve can be used to manually check that the Model AD-3 Automatic Drain Valve is in its normally open position by pushing in on the plunger and assuring that the ball has not been inadvertently seated.

Installation

The Model AD-3 Automatic Drain Valve is provided as a trim component for TYCO DV-5A Automatic Water Control Valve. The Model AD-3 Automatic Drain Valve must be installed in accordance with the specific instructions provided with TYCO DV-5A Automatic Water Control Valve technical data sheets.



Care and Maintenance

The TYCO Model AD-3 Automatic Drain Valve must be inspected in accordance with instructions provided with the TYCO DV-5A Automatic Water Control Valve technical data sheets, in addition to any specific requirements of the NFPA. Any impairment must be immediately corrected.

Before closing a fire protection system control valve for inspection or maintenance work on the fire protection system that it controls, obtain permission to shut down the effected fire protection system from the proper authorities and all personnel who may be affected by this action must be notified.

The owner is responsible for the inspection, testing, and maintenance of their fire protection system and devices in compliance with this document, as well as with the applicable standards of the NFPA such as NFPA 25, in addition to the standards of any authority having jurisdiction. Contact the installing contractor or product manufacturer with any questions.

Automatic sprinkler systems are recommended to be inspected, tested, and maintained by a qualified Inspection Service.

After placing a fire protection system in service, notify the proper authorities and advise those responsible for monitoring proprietary and/or central station alarms.

Limited Warranty

For warranty terms and conditions, visit www.tyco-fire.com.

Ordering Procedure

The TYCO Model AD-3 Automatic Drain Valve is provided as a trim component for TYCO DV-5A Automatic Water Control Valve. Contact your local distributor for availability.

Orders for replacement Model AD-3 Automatic Drain Valves must include a full description and Part Number (P/N).

Model AD-3 Automatic Drain Valve
 Specify: Model AD-3 Automatic Drain Valve, P/N 547932004