



Technical Service Bulletin 338C Model DDX-LP Valve Conversions

Reference

Model DDX-LP Valve Conversions

General

The Model DDX valve can be trimmed to create eleven types of listed systems. This document contains information regarding changes to the release trim on the Model DDX-LP valve that are required to convert from dry pipe to preaction systems.

Listings & Approvals

When conversion is performed in strict accordance with this document using Reliable approved components, the product listing will transfer accordingly.

Notes:

1. All work shall be performed by qualified and knowledgeable personnel in accordance with NFPA 13 and approved by the authority having jurisdiction.
2. Any work that involves placing a system out of service will eliminate the fire protection that is provided by the fire protection system. Notify the owner and any required authorities having jurisdiction and implement appropriate precautions prior to proceeding.
3. Adjust air (or nitrogen) pressure and pressure switch settings in accordance with the Technical Bulletin for the new system type.
4. Full functional testing of the converted system shall be performed and documented in accordance with NFPA 13 requirements for a new system.

Approved Conversions

A. Converting Model DDX-LP dry system to Type D Preaction

(Refer to Bulletin 338 for Model DDX-LP and Bulletin 750 for Type D Preaction)

This conversion requires the replacement of the Model LP Dry Pilot Actuator with a normally closed solenoid valve, replacement of the valve identifier badge on the cover plate, and adjustment to pressure settings. Before and after images of the trim are provided in Figures 1 and 2 on Page 2. Conversion kit part numbers are provided below. Note that the solenoid valve discharges to drain. If a spare port is not available on the drain manifold, separate means of providing safe discharge must be provided. Also note that the Type D system requires a Reliable Model A Pressure Maintenance Device; if one is not present on the Model DDX-LP it will need added. The Type D system can be programmed to operate as either a single- or double-interlock preaction system. Following the conversion, an approved detection system with a listed release control panel must be provided to operate the system. The release control panel must be compatible with the solenoid valve.

B. Converting Model DDX-LP dry system to Type F Preaction

(Refer to Bulletin 338 for Model DDX-LP and Bulletin 751 for Type F Preaction)

This conversion requires the installation of a normally closed solenoid valve upstream of the Model LP Dry Pilot Actuator, replacement of the valve identifier badge on the cover plate, and adjustment of pressure settings. Before and after images of the trim are provided in Figures 3 and 4 on Page 3. Conversion kit part numbers are provided below. The Type F system is an electric/pneumatic double-interlock preaction system. Following the conversion, an approved detection system with a listed release control panel must be provided to operate the system. The release control panel must be compatible with the solenoid valve.

Conversion Kit (Solenoid Selection) Part Numbers

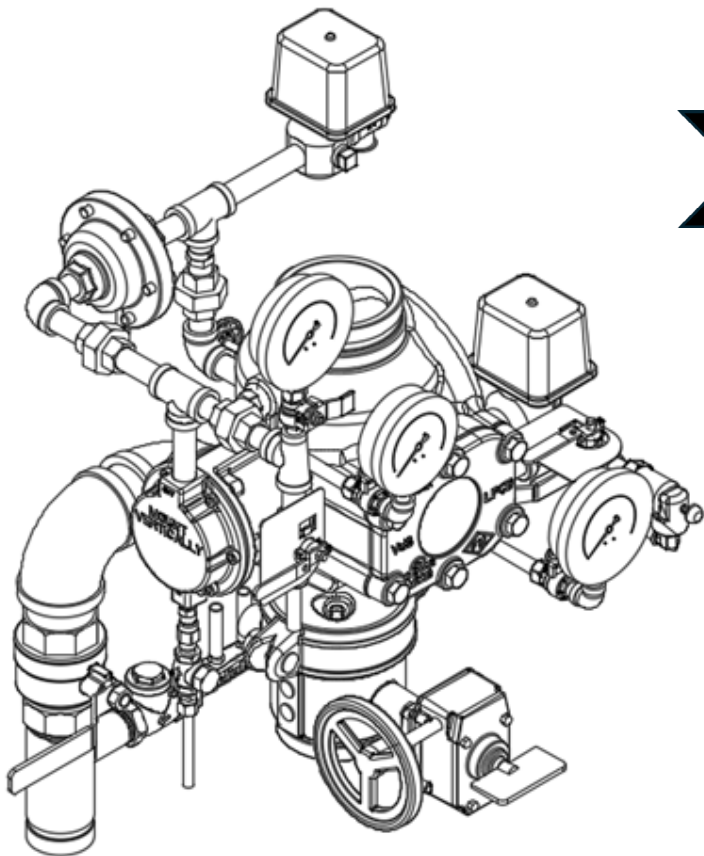
- Parker 175 PSI, 24VDC, 10W, NC Solenoid: PN 650120012A
- Parker 300 PSI, 24VDC, 22W, NC Solenoid: PN 650120012B
- Parker 175 PSI, 24VDC, 10W, NC Exp. Proof Solenoid: PN 650120012C
- Parker 300 PSI, 24VDC, 22W, NC Exp. Proof Solenoid: PN 650120012D

Conversion A: Model DDX-LP Dry to Model DDX Type D Preaction

Model DDX-LP Dry System

Figure 1

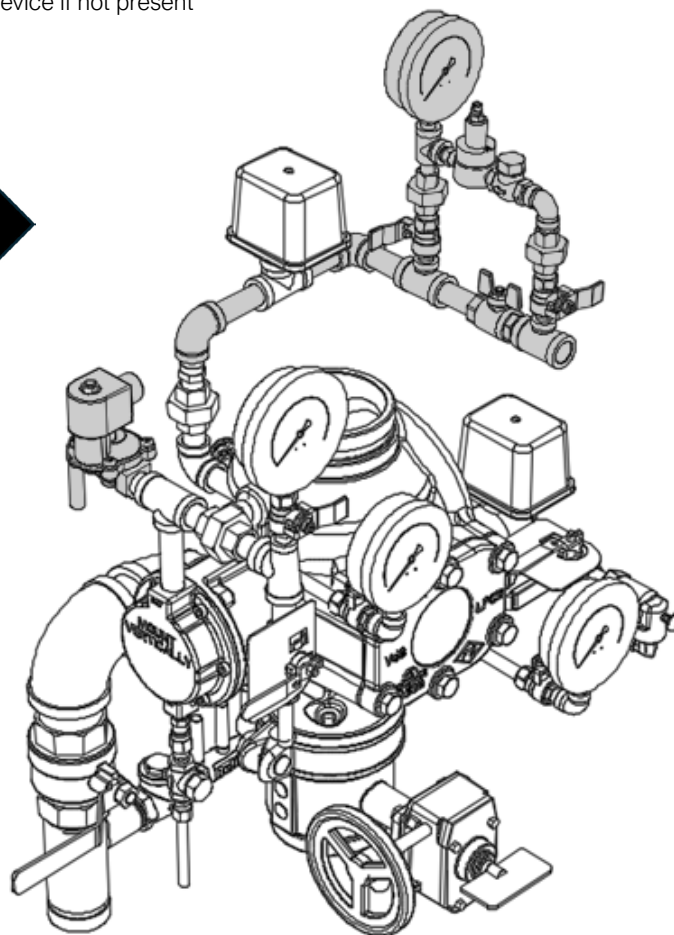
Pressure Maintenance Device
may or may not be present



Model DDX Type D Preaction

Figure 2

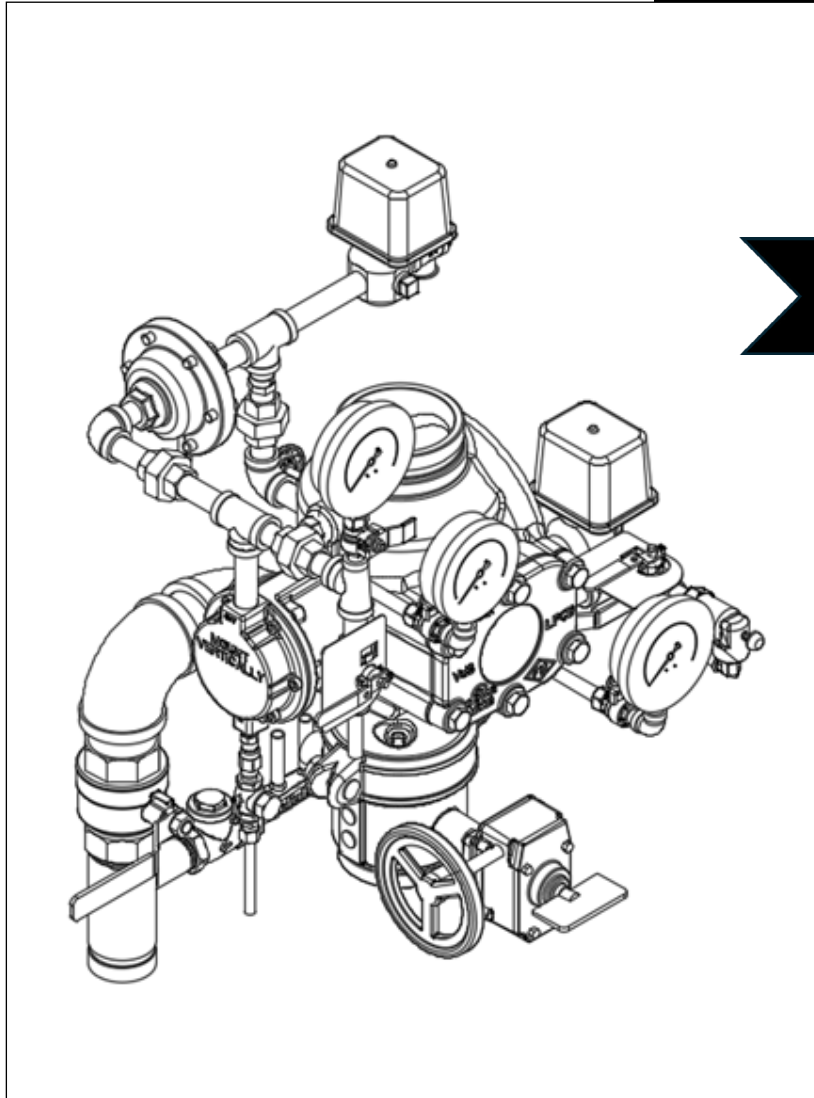
ADD Pressure Maintenance
Device if not present



Conversion B: Model DDX-LP Dry to Model DDX Type F Preaction

Model DDX-LP Dry System

Figure 3



Model DDX Type F Preaction

Figure 4

