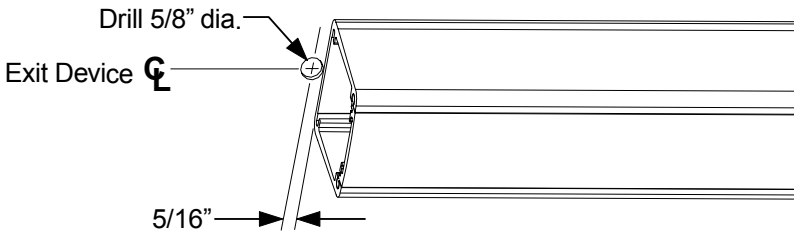
911411-00

Pneumatic Exit Device

VON DUPRIN

Installation Instructions

1. Install exit device on door (see device installation instructions).
2. Remove end cap and mounting bracket from hinge end of door.
3. Drill 5/8” dia. air tubing hole access hole as shown below through device side of door only.
4. Route air tubing from exit device through hole to pneumatic power transfer or door loop on edge of door.
5. See general information below regarding pneumatic system connection and operation.



Pneumatic Hose and Connector

Von Duprin PN (pneumatic) exit device is furnished with 3’ (914mm) x 5/32” OD (4mm) air tubing and 5/32” (4mm) OD quick connect coupler and furnished with a LCN adapter kit for the 7900 series controllers. This kit contains a 5/32” (4mm) OD quick connect coupler and a 1/4” (6mm) barb fitting to connect to the standard LCN tubing.

Von Duprin PNT-1 (pneumatic power transfer) is furnished with a 5/32” (4mm) OD quick connect coupler.

Von Duprin DL-1 (door loop) is furnished with a 5/32” (4mm) OD quick connect coupler.

Pneumatic Solenoid Operation

Von Duprin PN exit device is activated by applying 50-120 psi of clean dry air to the quick connect fitting on air cylinder. This holds the pushbar down, providing push/pull operation during heavy traffic periods to avoid sparking in intrinsically safe areas and reducing wear of any moving parts.

Loss of air pressure will release the pushbar and allow the door to latch meeting the requirements of the fire code (NFPA 80).

A 3-way normally open pneumatic control valve with spring return is required for proper operation. This ensures the device will latch to secure the door if there is a loss of air pressure.

Controlling Operation

Either pneumatically or electrically controlled relays can be used to actuate the control valve remotely by a wall switch, key switch, card reader, timer, etc.

The LCN 7902 sequencing control box interface is well suited for controlling the pneumatic device for extended periods of time with shop air and provides a fire alarm contact. Order the 7902 x ST2046-1 w/920 for an alternate action relay that will pulse on and off for hold open applications.

The LCN 7982 sequencing control box interface is well suited for controlling the pneumatic device momentarily and contains and onboard air compressor and provides a fire alarm contact.

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Customer Service
1-877-671-7011 www.allegion.com/us

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