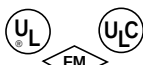


Series 745 FireLock® Fire-Pac

PRODUCT DESCRIPTION



See Victaulic
publication 10.01
for details.

The Victaulic FireLock Fire-Pac is a completely pre-assembled fire protection valve that provides maximum service in a minimal enclosed space.

The Series 745 Fire-Pac is UL/ULC Listed and FM Approved. All electrical enclosures and connections are UL Listed, and all materials and wiring conform to NFPA requirements.

Available in 1 1/2 through 6 1/4 - 150 mm sizes, the FireLock Fire-Pac can incorporate any of the following available valve configurations:

- Deluge – Wet pilot, dry pilot, and electric actuation
- Preaction – Non-Interlock, Single-Interlock, and Double-Interlock
- Dry

Included in the FireLock Fire-Pac are a water supply shutoff valve, the sprinkler system fire protection valve, alarm line pressure switches, air supervisory pressure switches, supervisory pump switches, and digital pressure gauges that are easily viewed through a window in the cabinet door.

If required, the system can be supplied with an additional shutoff valve installed above the sprinkler system fire protection valve. This additional shutoff valve can provide greater system integrity during trip tests. NOTE: All shutoff valves are pre-wired for supervisory alarms.

The manual pull station, mounted on the front of the Fire-Pac cabinet, is accessible through a supervised door. Once the door to the manual pull station is opened, the valve can be manually tripped.

When system air pressure is required, a compressor can be supplied with an optional air tank and air maintenance device for complete system integration.

The system control panel is part of the cabinet door assembly for easy access and visibility. All electrical connections from inside the Fire-Pac to the control panel are pre-wired. All external electrical connections are accessible through an enclosure on the outside of the cabinet.

The standard releasing panel is the Model PDRP-1001, a compact single enclosure, containing the power supply, standby batteries and a battery charger as well as connections for the detectors, waterflow and tamper switches, and the solenoid valve. The Model PDRP-1001 includes DIP switches for field setting as two area or single area cross-zoned control. Mounting slots are provided for two optional module boards.

The addressable panel, a Notifier AFP-200 model, provides compact, intelligent fire alarm control. The single standard communication (SLC) loop meets NFPA Style 4, 6, or 7 requirements and includes a 198 device capacity, four Notification Appliance circuits, history file with 650 event capacity, sensitivity display and adjustment, drift compensation, auto detector test per NFPA 72 requirements, LED blink control, three methods of cross-zoning, delay and soak timers, and it is programmable from a PC. The panel is shipped factory programmed for any system troubles in the assembly. The Notifier AFP-200 addressable panel includes one mounting slot for either a 4XTM or RTM-8 module. Refer to the AFP-200 booklet for installation information.

For ease of installation, all pipe connections use Victaulic FireLock grooved pipe couplings and fittings. The water supply and drain can be connected from either side of the cabinet. Fire-Pac cabinets in 1 1/2" and 2 1/4" and 50 mm sizes can also be piped from the bottom.

For proper system setup and maintenance, please refer to the Victaulic I-745 installation, maintenance, and testing manual. All electrical component literature is included with the Fire-Pac cabinet.

For complete fire protection valve information, request submittals:

- 30.80 – Series 768 FireLock NXT™ Dry Valve (4 and 6" only)
- 30.81 – Series 769 FireLock NXT Deluge Valve (4 and 6" only)
- 30.82 – Series 769 FireLock NXT Preaction Valve (4 and 6" only)
- 30.03 – Series 756 FireLock Dry Valve (1 1/2 - 3" and 6" only)
- 30.04 – Series 758 FireLock Deluge Valve (1 1/2 - 3" and 6" only)
- 30.05 - Series 758 FireLock Preaction Valve (1 1/2 - 3" and 6" only)

! WARNING

- The FireLock Fire-Pac must be installed and maintained in accordance with the installation, maintenance, and testing manual for the fire protection valve.
 - Installation must conform to NFPA standards and any additional requirements of the local authority having jurisdiction.
 - The owner is responsible for the proper maintenance of the fire protection system.
- Failure to follow instructions and requirements could cause system failure, resulting in serious personal injury and property damage.

MATERIAL SPECIFICATIONS

CABINET SPECIFICATIONS:

Cabinet: Steel, 12 gauge

Finish: Red – Electrostatically applied polyester powder

DEVICE SPECIFICATIONS:

Body: Ductile iron, ASTM A-536 Grade 65-45-12

Clapper: Aluminum bronze UNS-C95500 or UNS-C36000

Shafting: Shafts are 17-4 stainless steel

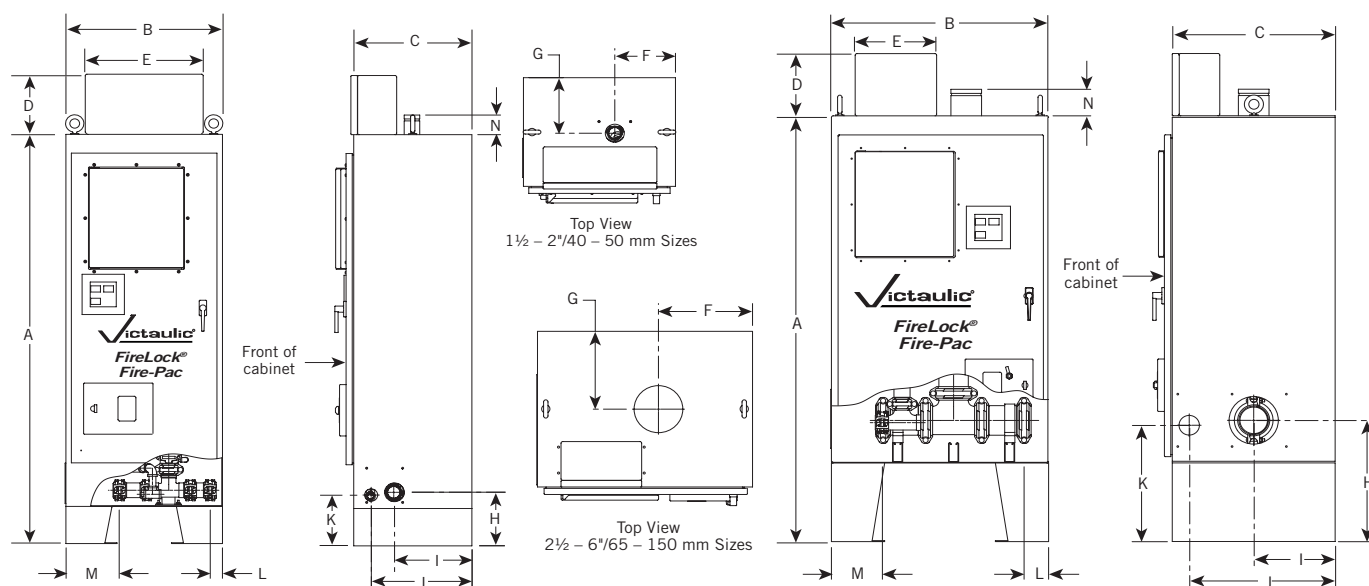
Latch and Piston: Aluminum bronze UNS-C95500 or UNS-C36000

Seat Seal: EPDM, ASTM D2000

Seals: Nitrile

Springs: Stainless steel (300 Series)

DIMENSIONS

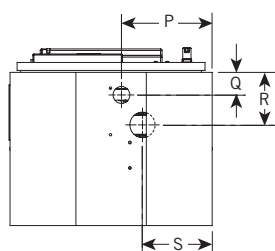


1 1/2 - 2"/40 - 50 mm Sizes

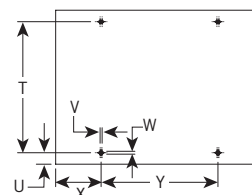
2 1/2 - 6"/65 - 150 mm Sizes

Nominal Size In./mm	Actual Outside Dia. In./mm	Dimensions - Inches/millimeters														Aprx. Wgt. Each Lbs./kg
		Height A	Width B	Depth C	D	E	F	G	H	I	J	K	L	M	N	
1 1/2 40	1.900 48.3	66.06 1678	24.06 611	18.07 459	9.50 241	18.00 457	9.60 244	9.23 234	8.60 218	11.53 293	15.40 391	8.16 207	2.52 64	8.66 220	1.90 48	350.0 158.8
2 50	2.375 60.3	66.06 1678	24.06 611	18.07 459	9.50 241	18.00 457	9.60 244	9.23 234	8.60 218	11.95 304	15.40 391	8.16 207	1.90 48	8.25 210	3.15 80	360.0 163.3
2 1/2 65	2.875 73.0	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451	2.62 67	6.67 169	5.27 134	516.0 234.1
3 80	3.500 88.9	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451	3.75 95	7.50 191	4.17 106	522.0 236.8
4 100	4.500 114.3	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451	3.60 91	7.60 193	4.05 103	720.0 326.6
6 150	6.625 168.3	65.00 1651	32.00 813	24.00 610	9.50 241	12.00 305	14.00 356	12.00 305	18.50 470	12.00 305	21.50 546	17.75 451	2.07 53	6.12 155	3.73 95	840.0 381.0

Note: NXT drains may be different and to be determined.



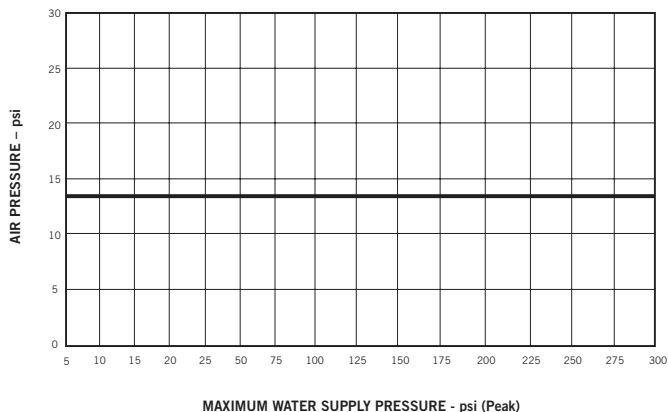
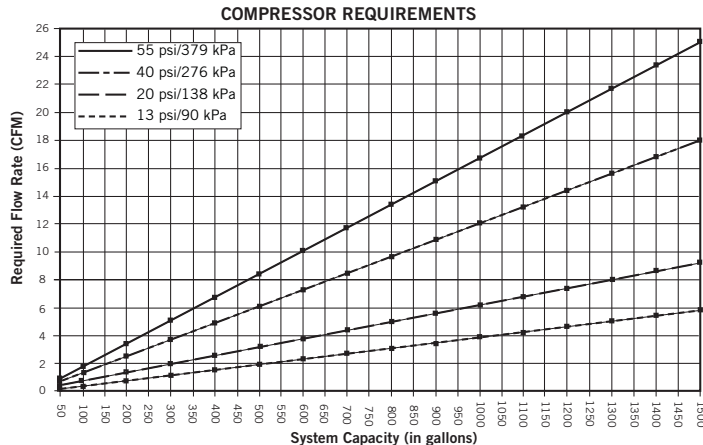
Bottom View
1 1/2 - 2"/40 - 50 mm Sizes Only



Mounting Holes
1 1/2 - 6"/65 - 150 mm Sizes

Nominal Size In./mm	Actual Outside Dia. In./mm	Dimensions - Inches/millimeters									
		P	Q	R	S	T	U	V	W	X	Y
1 1/2 - 2 40 - 50	1.900 - 2.375 48.3 - 60.3	10.79 274	2.63 67	6.19 157	8.29 211	14.00 356	2.00 51	0.312 8	0.438 11	6.81 173	10.50 267
2 1/2 - 6 65 - 150	2.875 - 6.625 73.0 - 168.3	-	-	-	-	20.00 508	1.75 45	0.312 8	0.438 11	7.00 178	18.00 457

COMPRESSOR REQUIREMENTS



SERIES 745 FIRELOCK FIRE-PAC PANEL OPTIONS

(Refer to FireLock Fire-Pac Figure Number System Chart on Page 5)

The following is a guide for selecting the proper panel options for the Series 745 Fire-Pac.

Panel Design Options:

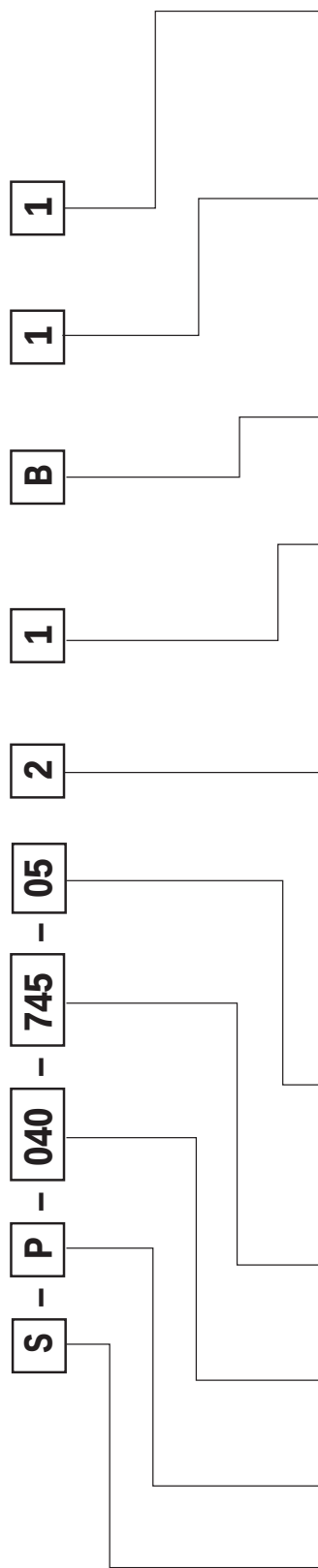
Panel Design
1 - No Panel (includes power supply for digital gauges)
2 - Panel (Includes 2-12V, 12AH Batteries)
3 - Panel with 4XLM LED Interface Module
4 - Panel with 4XTM Transmitter Module
5 - Panel with 4XZM Relay Module
6 - Panel with 4XLM LED Interface Module and RZA-4X Remote Zone Annunciator
7 - Panel with 4XLM LED Interface Module and 4XZM Relay Module
A - Panel with 4XLM LED Interface Module, RZA-4X Remote Zone Annunciator and 4XZM Relay Module*
B - Panel with 4XLM LED Interface Module, RZA-4X Remote Zone Annunciator and 4XTM Transmitter Module
C - Panel with 4XLM LED Interface Module and 4XTM Transmitter Module
D - Panel with 4XTM Transmitter Module and 4XZM Relay Module
E - Addressable panel (Includes 2-12V, 12AH batteries)
F - Addressable panel (Includes 2-12V, 12AH batteries), with 4XTM Module
G - Addressable panel (Includes 2-12V, 12AH batteries), with RTM-8 Module
9 - Special#

- 1 No panel (includes power supply for digital gauges).
- 2 Includes the base panel with two (2) 12 AH batteries. Optional boards are not included. The base panel provides the Alarm and Trouble relays. The Alarm indicates when the valve trips and the Trouble indicates a technical difficulty (i.e. Loss of power, loose wire, etc.). Relay to send the supervisory alarm to a remote panel is not included.
- 3 Same as Option 2, plus 4XLM - Led Interface Module. The 4XLM sends signals to a remote location, such as the Remote Annunciator (RZA-4X), which mimics the warning lights on the front of the control panel. This board is required if the RZA-4X is to be used.
- 4 Same as Option 2, plus 4XTM - Transmitter Module. The Transmitter Module provides a supervised output for a Local Energy Municipal Box transmitter. The Local Energy Municipal Box contains a dialer, which automatically calls the public fire service. The 4XTM also provides alarm and trouble reverse polarity circuits for Remote Station Service.
- 5 Same as Option 2, plus 4XZM - Zone Relay Module. The 4XZM adds four (4) sets of relay contacts that sends the output alarms to a central fire panel. This module is necessary if the supervisory alarm will be transmitted to the central fire panel.
- 6 Same as Option 3, but adds the RZA-4X - Remote Annunciator Module. The RZA-4X mimics the readout of the PDRP-1001 with Red and Yellow LED lights for the alarms, releasing circuits, supervisory alarms, and system trouble.
- 7 Combines Options 3 and 5.
- A Combines Options 5 and 6.
- B Combines Options 4 and 6.
- C Combines Options 3 and 4.
- D Combines Options 4 and 5.
- E Addressable panel with two (2) 12 AH batteries. Option boards are not included; NPFA Style 4 SLC Loop wiring standard.
- F Same as option E, plus 4XTM - Transmitter Module. The transmitter module provides a supervised output for a Local Energy Municipal box transmitter. The Local Energy Municipal box contains a dialer, which will automatically call the public fire service. The 4XTM also provides alarm and trouble reverse polarity circuits for remote station service.
- G Same as option E, plus RTM-8 Relay module. The module provides eight Form C relays. These relays track software zones 1 through 8. The RTM-8 also provides Municipal box and Remote Station transmitters. In remote station applications, the RTM-8 transmits alarm only, not trouble or supervisory status. Connections are power limited and supervised. Disable switches and indicators are included.
- 9 Special order.

NOTE: Addressable panel with Style 6 or 7 SLC loops to be specified in applicable wiring code.

This product shall be manufactured by Victaulic or to Victaulic specifications. All products to be installed in accordance with current Victaulic installation/assembly instructions. Victaulic reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligations.

FireLock Fire-Pac Figure Number System



Class	Type	Size	Style Number	Trim Selection	Panel Design	Applicable Wiring Code	Compressor Selection	Air Maintenance Selection	Color Selector
S	A - Dry D - Deluge P - Pre-Action	014 020 024 024 761 030 040 165 060	745	01 - Dry Actuated 1A - Dry Actuated w/Add. Control Valve 02 - Dry Actuated/Accelerated † 2A - Dry Actuated/Accelerated w/Add. Control Valve † 03 - Deluge Pneumatic 3A - Deluge Pneumatic w/Add. Control Valve 04 - Deluge Electric 4A - Deluge Electric w/Add. Control Valve 05 - Pre-Action Electric Single Interlock 5A - Pre-Action Electric Single Interlock w/Add. Control Valve 06A - Pre-Action Electric Double Interlock 6A - Pre-Action Electric Double Interlock w/Add. Control Valve 07 - Pre-Action Pneumatic/Electric Double Interlock 7A - Pre-Action Pneumatic/Electric Double Interlock w/Add. Control Valve 7B - Pre-Action/Double Int. Electric - Pneumatic/Electric 7C - Pre-Action/Double Int. Electric - Pneumatic/Electric w/Add. Control Valve 7D - Pre-Action Pneumatic Single Interlock 7E - Pre-Action Pneumatic Single Interlock w/Add. Control Valve 08 - Pre-Action Pneumatic/Pneumatic 8A - Pre-Action Pneumatic/Pneumatic w/Add. Control Valve 09 - Special#	1 - No Panel (includes power supply for digital gauges) 2 - Panel (includes 2-12V, 12AH Batteries) 3 - Panel with 4XLM LED Interface Module 4 - Panel with 4XTM Transmitter Module 5 - Panel with 4XZM Relay Module 6 - Panel with 4XLM LED Interface Module and RZA-4X Remote Zone Annunciator 7 - Panel with 4XLM LED Interface Module and 4XZM Relay Module A - Panel with 4XLM LED Interface Module, RZA-4X Remote Zone Annunciator and 4XZM Relay Module* B - Panel with 4XLM LED Interface Module, RZA-4X Remote Zone Annunciator and 4XTM Transmitter Module C - Panel with 4XLM LED Interface Module and 4XTM Transmitter Module D - Panel with 4XTM Transmitter Module and 4XZM Relay Module E - Addressable panel (includes 2-12V, 12AH batteries) ‡ F - Addressable panel (includes 2-12V, 12AH batteries), with 4XTM Module G - Addressable panel (includes 2-12V, 12AH batteries), with RTM-8 Module H - Addressable Panel Ready (No Panel) 9 - Special# ‡ NFPA Style 4 wiring should reference Option 1 or 2 in the Wiring Code Options # All switches can be wired individually for use with other manufacturer's panels or wired to a X10-m station module for use with the notifier API-200 addressable panel. Contact Victaulic for details.	1 - U.S. - UL 2 - Canada - UL/CSA 3 - US NFPA Style 6 4 - US NFPA Style 7 5 - Canada - NFPA Style 6 6 - Canada - NFPA Style 7 7 - NYC/MEA 9 - Special	B - 1/6 hp C - 1/4 hp D - 1/2 hp ++ E - 1/2 hp ++ F - 3/4 hp ++ G - 1 hp ++ H - None 9 - Special#	1 - Compressor, no AMT** 2 - Air Maintenance, no compressor***@ 3 - Compressor, Air Maintenance and a Tank@ 4 - No compressor	1 - Red 9 - Special#

*This option meets MEA requirements for New York City.
† Requires regulated air maintenance trim assembly (option 3) with tank.
++ 2 1/2" - 6" Fire-Pacs only.

**Warning: Valve equipped with an accelerator requires AMT.
#Contact Victaulic for pricing and availability.
NOTE: Non Interlock available as special option.

SEE REVERSE FOR PANEL OPTION DESCRIPTIONS

***AMT without compressor is for use with external tank mounted air compressor or shop air.
^Electric release with release panel cross-zoned.
@When ordering AMT along with the compressor, it must have a tank. Choose 3, not 2.