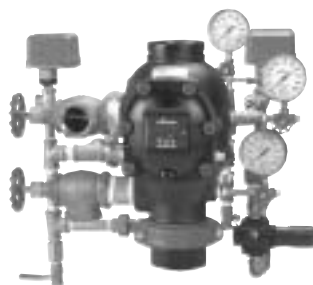


# Series 758 FireLock® Actuated System Valve

with Preaction Trim  
Grooved X Grooved  
and Flanged X Grooved

## PRODUCT DESCRIPTION



See Victaulic  
publication 10.01  
for details.

The Victaulic® Series 758 Actuated System Valve with Preaction Trim controls the water supply entry into a Preaction System piping and sprinklers. The preaction system is normally supervised with pressurized air or nitrogen in order to detect any leaks in the system. The Series 758 Actuated Valve is a low differential, latched clapper valve that separates system water supply from sprinkler system. The positive latching mechanism uses the supply water pressure from upstream (city side) of the control valve to hold the clapper shut. When the water pressure in the piston is released the latch retracts from the clapper and the valve actuates. The low differential and unique latch and actuator design of the valve allows the valve to be self resetting, therefore it is not necessary to remove the cover. The low differential design is not subject to water columns.

The valve allows the water to operate a water motor alarm and/or electric pressure alarms.

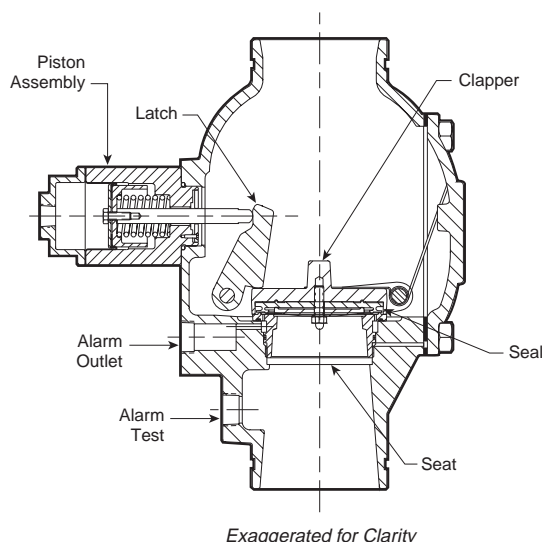
The 1½" (40 - 150 mm) valve is rated to 300 psi (2065 kPa) water working pressure and is factory tested hydrostatically to 600 psi (4135 kPa). The 8" (200 mm) valve is rated to 225 psi (1550 kPa) and is tested hydrostatically to 450 psi (3100 kPa). Standard grooved dimensions conform to ANSI/AWWA C606. Standard flanged dimensions conform to ANSI B16.5, Class 150.

The Victaulic Series 758 Preaction System is available grooved X grooved (all sizes) or flanged X grooved (4 - 6"/100 - 150 mm).

The Victaulic Preaction system does NOT require a separate check valve in the preaction system and features a straight through valve body design for lower friction loss. Full trim packages for non-interlocked, single interlocked and double interlocked systems are available. The valve has simple access to all internal parts for easy maintenance. All internal parts are replaceable.

Maintenance and service can be performed from the installed position. The rubber clapper seal is easily replaced without removing the clapper from the valve. The body is tapped for main drain and all available trim configurations. The valve is painted inside and out to increase corrosion resistance.

The valve features reduced trim pieces and slim design for reduced footprint and substantial space and weight savings. Trim includes an alarm test valve which allows testing of the alarm system without reducing the system pressure. The valve is available with separate trim packages or pre-trimmed for vertical installation.



NOTE: Valve is in the "set" position

## SYSTEM DESCRIPTION

### Non-Interlocked

Non-interlocked systems are designed so that either an event detection by the release mechanism or loss of supervisory air in the sprinkler system will cause the valve to operate. When the valve operates water will enter the sprinkler system and flow from any open sprinklers or other openings in the system.

*Pneumatic Release:* The pneumatic release system uses a supervisory pilot line to detect a release event. When EITHER a pilot sprinkler or a system sprinkler operates the water in the valve piston is released and the valve operates. If the pilot sprinkler activates and a system sprinkler does not operate, water will fill the sprinkler system, alarms will be activated and the Victaulic Series 758 Actuated Valve will act as an Alarm Check Valve. If the valve is actuated by the activation or damage of a sprinkler, water will enter the system and flow from any open sprinklers. Alarms will activate due to water entering the intermediate chamber of the valve.

*Pneumatic/Electric Release:* The Victaulic Electric Release System uses an electric solenoid valve, approved electric panel and a compatible detection system. When EITHER an electric detection or a system sprinkler operates the water in the valve piston is released and the valve operates. If there is an electric detection and a system sprinkler does not operate, water will fill the sprinkler system, alarms will be activated and the Victaulic Series 758 Actuated Valve will act as an Alarm Check Valve. If the valve is actuated by the activation or damage of a sprinkler system sprinkler, water will enter the system and flow from any open sprinklers. Alarms will activate due to water entering the intermediate chamber of the valve.

### Single Interlocked

Single interlocked systems are designed so that only an event detection by the release mechanism will cause the valve to operate. When the valve operates water will enter the sprinkler system and flow from any open sprinklers or other openings in the system.

*Pneumatic Release:* The pneumatic release system uses a supervisory pilot line to detect a release event. Only when a pilot sprinkler operates will the water in the valve piston be released and the valve operate. Pneumatic pressure is maintained in the sprinkler system only for supervisory purposes and a low pressure alarm is installed in the sprinkler system in order to detect any leaks in the system. If the pilot sprinkler activates and a system sprinkler does not operate, water will fill the sprinkler system, alarms will be activated and the Victaulic Series 758 Actuated Valve will act as an Alarm Check Valve. If a system sprinkler is damaged or activates and there is no release mechanism detection the low pressure alarm in the system will activate but no water will flow until there is a release detection.

*Electric Release:* The Victaulic Electric Release System uses an electric solenoid valve, approved electric panel and a compatible detection system. Only when a release system event occurs, will the water in the valve piston be released and the valve operate. Pneumatic pressure is maintained in the sprinkler system only for supervisory purposes and a low pressure alarm is installed in the sprinkler system in order to detect any leaks in the system. If there is an electric release activation and a sprinkler system sprinkler does not operate, the valve will operate and water will fill the sprinkler system, alarms will be activated and the Victaulic Series 758 Actuated Valve will act as an Alarm Check Valve. If a system sprinkler is damaged or activates and there is no release mechanism detection the low pressure alarm in the system will activate but the valve will not operate and no water will flow until there is a release detection.

### Double Interlocked

Double interlocked systems are designed so that the valve will actuate only in the event of multiple fire detections by the release mechanisms. If a single release event occurs alarms will sound but the valve will not operate and water will not flow until a second release event is detected. Double interlocked systems are commonly used in refrigerated systems and in systems where water entering the sprinkler system is critical as well as when accidental discharge of water is critical.

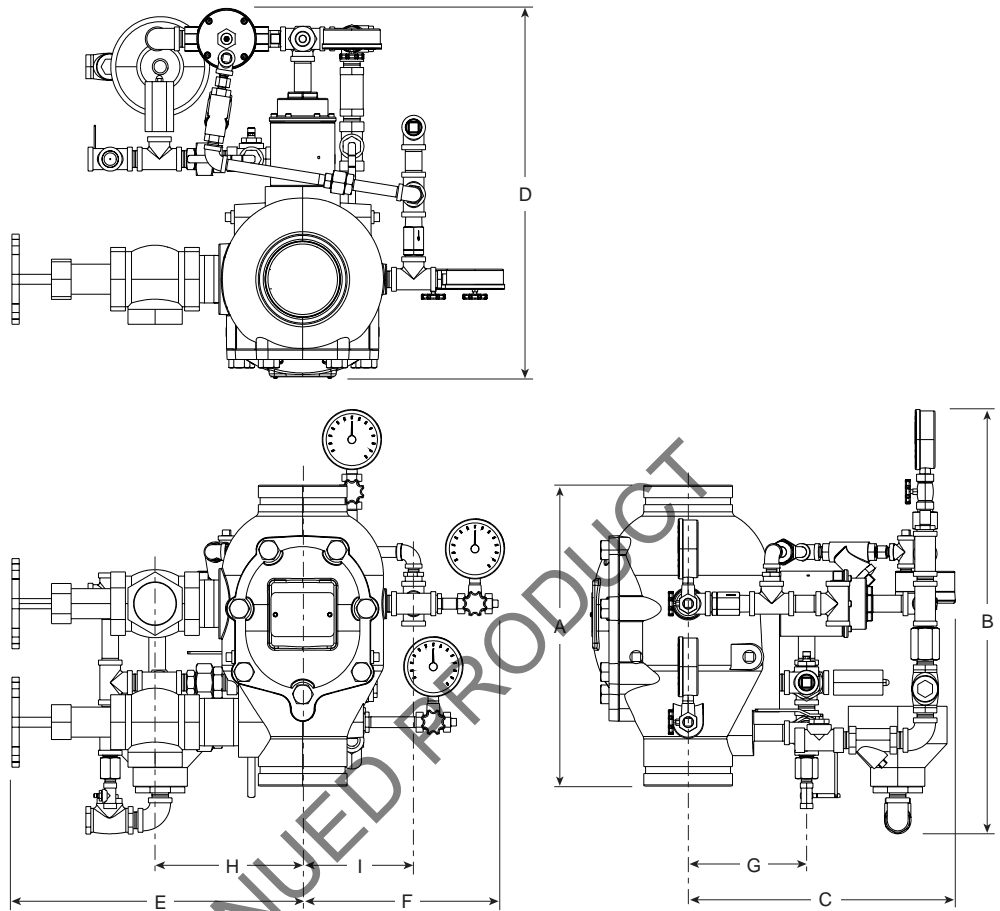
*Pneumatic/Electric Release:* The electric/pneumatic preaction system uses both an electric release system, (composed of an approved solenoid valve, electric panel and an appropriate sensor), and pneumatically pressurized sprinkler system. The Victaulic Series 758 Actuated Valve will activate ONLY when there is a pressure loss in the sprinkler system AND the electric detection of a release event. In the event of a loss of pressure in the sprinkler system without an electric detection the valve will not actuate until a second release event is detected. In this way if there is accidental damage to the sprinkler system no water will flow. Additionally, if there is an electric detection and no pressure loss in the sprinkler system the valve will not actuate. Alarms will activate in both cases alerting the user of a detection condition.

*Electric/Pneumatic/Electric Release:* The electric/pneumatic/electric release uses two electric detection devices, a fire detection device and a low pressure switch installed in the sprinkler system. Both electric detection devices are wired into an approved control panel in a "cross-zoned" configuration. The electric control panel controls a solenoid valve piped to the Victaulic Series 758 Actuated Valve piston. In the event of a fire detection device activation and no pressure loss in the sprinkler system the control panel will not trigger the solenoid valve and the valve will not actuate. If there is a loss of pressure in the sprinkler system due to damage or a sprinkler activating and no fire detection the control panel will not trigger the solenoid and the valve will not actuate. The valve will actuate ONLY when BOTH a fire detection event and loss of system pressure occurs. When BOTH signals are received by the control panel the panel triggers the solenoid valve. This allows the water supply pressure in the Series 758 Valve piston to be released and the valve will actuate allowing water into the system.

*Pneumatic/Pneumatic Release:* The pneumatic/pneumatic system uses one Series 798 Double Pneumatic Actuator to control the Series 758-LPA-P Actuated Valve. The system control valve will operate only when there is sprinkler activated in both the pilot line and the sprinkler system. If a sprinkler is activated in either the pilot line or the sprinkler system (without an accompanying open sprinkler in the other system) the system control valve will not operate. Since the pneumatic/pneumatic system uses two separate pneumatic detections, the need for an electric release panel is eliminated. In all cases, an open sprinkler will cause low-pressure supervisory alarm. **Note: The 8-inch Series 758 is approved and listed for double interlock pneumatic – electric with the Series 79N. It is also approved for double interlock and pneumatic/pneumatic double interlock configurations with the Series 798.**

DISCONTINUED PRODUCT

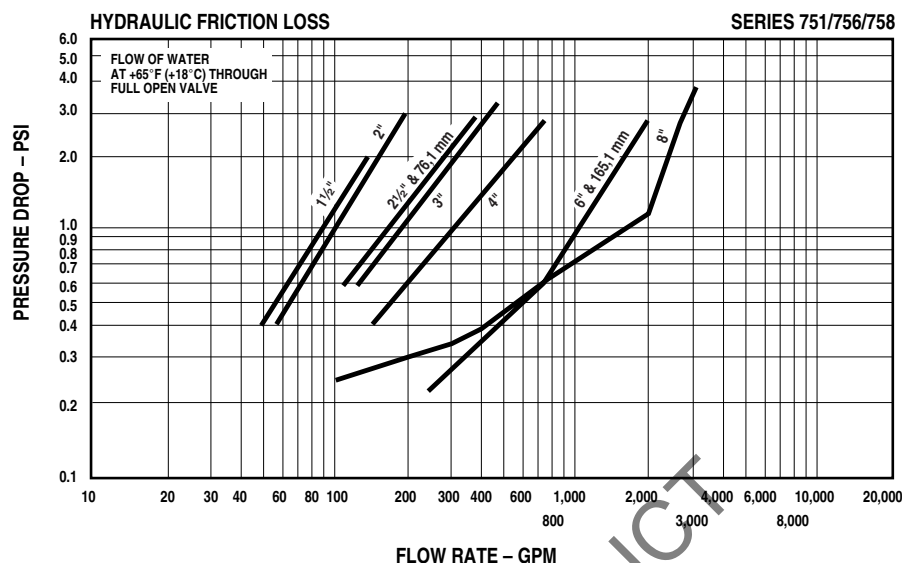
## DIMENSIONS



Valve Size		Dimensions Inches/mm									Aprx. Weight Each Lbs./kg			
Nominal Diameter In./mm	Actual Outside Diameter In./mm										Without Trim		With Trim	
		A	B	C	D	E	F	G	H	I	Flanged	Grooved	Flanged	Grooved
<b>GROOVED X GROOVED</b>														
1½ 40	1.900 48,3	9.00 228,60	32.00 813	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	– –	16.7 7,6	– –	43.0 19,5
2 50	2.375 60,3	9.00 228,60	32.00 813	13.00 330	18.00 457	13.00 330	10.00 254	7.00 178	4.00 102	4.00 102	– –	17.0 7,7	– –	43.0 19,5
2½ 65	2.875 73,0	12.61 320,29	33.00 838	14.00 356	20.00 508	15.50 394	11.50 292	7.50 191	5.00 127	5.00 127	– –	41.2 18,7	– –	65.0 29,5
76,1 mm	3.000 76,1	12.61 320,29	33.00 838	14.00 356	20.00 508	15.50 394	11.50 292	7.50 191	5.00 127	5.00 127	– –	41.2 18,7	– –	65.0 29,5
3 80	3.500 88,9	12.61 320,29	33.00 838	14.00 356	20.00 508	15.50 394	11.50 292	7.50 191	5.00 127	5.00 127	– –	42.1 19,1	– –	65.0 29,5
4 100	4.500 114,3	15.03 381,76	31.00 787	15.00 381	21.00 533	15.00 381	12.00 305	8.00 203	9.00 229	6.00 152	– –	55.0 24,9	– –	95.0 43,1
6 150	6.625 168,3	16.00 406,40	30.00 762	16.00 406	22.00 559	14.00 356	12.00 305	8.50 216	7.00 178	7.00 178	– –	73.0 33,1	– –	115.0 52,2
165,1 mm	6.500 165,1	16.00 406,40	30.00 762	16.00 406	22.00 559	14.00 356	12.00 305	8.50 216	7.00 178	7.00 178	– –	73.0 33,1	– –	115.0 52,2
8 200	8.625 219,1	17.50 444,50	30.00 762	16.00 406	23.00 584	16.00 406	12.00 305	14.00 356	9.50 241	7.00 178	– –	142.0 64,4	– –	182.0 82,6
<b>GROOVED X FLANGED</b>														
4 100	4.500 114,3	15.64 397,26	31.00 787	15.00 356	21.00 533	14.00 356	12.00 305	8.00 203	9.00 229	6.00 152	65.0 29,5	– –	105.0 47,6	– –
6 150	6.625 168,3	16.94 430,28	30.00 762	16.00 406	22.00 559	14.00 356	12.00 305	8.50 216	7.00 178	7.00 178	83.0 37,6	– –	125.0 56,7	– –
165,1 mm	6.500 165,1	16.94 430,28	30.00 762	16.00 406	22.00 559	14.00 356	12.00 305	8.50 216	7.00 178	7.00 178	83.0 37,6	– –	125.0 56,7	– –
8 200	8.625 219,1	19.27 489,46	30.00 762	16.00 406	23.00 584	16.00 406	12.00 305	14.00 356	9.50 241	7.00 178	155.0 70,3	– –	195.0 88,5	– –



## PERFORMANCE



The chart below expresses the frictional resistance of Victaulic Series 758 Actuated System Valve in equivalent feet of straight pipe.

### FRICTIONAL RESISTANCE

Nominal Size Inches/ Actual mm	Equivalent Length of Pipe Feet	Nominal Size Inches/ Actual mm	Equivalent Length of Pipe Feet
1 1/2	3	4	21
2	9	6	22
2 1/2	8	165,1 mm	22
76,1 mm	8	8	50
3	17		

## OPERATION

The Victaulic Preaction System utilizes the Series 758 Actuated Valve to control the entry of the water supply into the Preaction System piping and sprinklers. The Series 758 Actuated Valve is constructed with a clapper having a replaceable rubber face. The clapper makes contact with the valve seat ring which has access holes to the intermediate chamber of the valve. The clapper is contacted by the latch which is contacted by the piston rod. In the set position, water supply pressure from upstream of the water supply control valve is maintained in the valve piston which holds the clapper in the closed/set position. The water is maintained in the piston by one of the system release mechanisms (pneumatic, hydraulic or electric). Upon the detection of an appropriate actuating event of the Preaction System (see system description above) the water supply pressure in the piston is released. This causes the piston rod to retract and permits the clapper to pivot freely allowing water into the Preaction System. Water will flow from all open sprinklers in the piping. Also, water enters the intermediate chamber of the valve through the holes in the seat ring. The water flows from the intermediate chamber to the alarm line thus activating the system alarms. These alarms will continue to sound until the flow of water is stopped. When the flow of water is stopped the spring assisted valve clapper returns to the closed position and the valve acts as an alarm check valve until the system is put back into service as a Preaction System.

### Manual Operation

Any time the manual release handle is pulled water will be released from the piston and the valve will actuate allowing water into the Preaction System. Water motor alarms and alarm pressure switches will activate.

### WARNING



- This product must be installed by an experienced, trained installer, in accordance with the instructions provided with each valve. These instructions contain important information. Failure to follow these instructions may result in serious personal injury, property damage, or valve leakage.
- If you need additional copies of this product literature or the valve installation instructions, or if you have any questions about the safe installation and use of this device, contact Victaulic Company, P.O. Box 31, Easton, PA 18044-0031 USA, Telephone: 001-610-559-3300.

## TRIM PACKAGES

### Trim packages available for vertical installation:

1. Trim for the preaction system installed in a pneumatic release, non-interlocked system.
2. Trim for the preaction system installed in an electric release, non-interlocked system.
3. Trim for the preaction system installed in a pneumatic release, single interlocked system.
4. Trim for the preaction system installed in an electric release, single interlocked system.
5. Trim for the preaction system installed in a pneumatic-electric release, double interlocked system.
6. Trim for the preaction system installed in an electric/pneumatic/electric release, double interlocked system.

### Trim packages include:

1. All required pipe and fittings.
2. All standard trim accessories.
3. All required gauges.

### Optional accessories:

- **Series 753-A Dry Actuator** - The Series 753-A Dry Actuator maintains the water in the piston, controlled by the system air pressure, in pneumatic actuation systems. Request 10.36 for submittal.
- **Series 776 Low Pressure Actuator** - The Series 776 Low Pressure Actuator is a pneumatically actuated valve designed to allow the sprinkler system to operate with a low air or gas pressure of 10 psi (69 kPa), regardless of supply water pressure. Request 10.46 for submittal.
- **Series 798 Double Pneumatic Actuator** - The Series 798 Double Pneumatic Actuator is a pneumatically actuated device that requires two separate pneumatic activations in order to actuate the Sprinkler Actuated Valve. Request 10.49 for submittal.
- **Series 746 Accelerator** - The accelerator can be used on pneumatic release systems in order to speed the system's response time. Request 10.45 for submittal.
- **Series 79N Low Pressure Actuator** - The Series 79N Pneumatic Electric Double Interlock Low Pressure Actuator provides a single trip point for the pneumatic event, regardless of supply water pressure, and an integral electric actuator. Request 10.51 for submittal.
- **Series 760 Water Motor Alarm** - The Series 758 preaction trim is designed to activate a mechanical water motor alarm when a sustained flow of water (such as with an open sprinkler) causes the clapper to lift from its seat. Request 10.38 for submittal.
- **Series 753-E Solenoid Valve** - The Series 753-E is designed for use with Series 758 Preaction and Deluge devices that use electric actuation. Request 10.47 for submittal.
- **Series 75D Water Column Kit** - The Series 75D is designed for use on Series 756 dry and Series 758 preaction devices to minimize residual water in the riser from collecting above the clapper. Request 10.97 for submittal.
- **Series 75B Supplemental Alarm Kit** - The Series 75B is designed for use with Series 756 dry valves and Series 758 preaction valves (equipped with mechanical alarms) to provide a continuous alarm. Request 10.53 for submittal.
- **Alarm pressure switch** - The Series 758 system is designed to allow the installation of pressure switches to activate electric alarms and control panels when a sustained flow of water (such as with an open sprinkler) causes the clapper to lift from its seat.
- **Air Pressure Supervisory Switch** - Used to monitor the system air pressure. Available with both a low pressure and high pressure sensitivity.
- **Air Supply System** - The air supply system contains all components for establishing and maintaining air in a pneumatic preaction system. Included in the air supply system is the compressor, low pressure alarms, ball valves and required trim.
- **Air Compressor**
- **Air Dryer**
- **Air Maintenance Device**
- **Alarm Panels**
- **Solenoid Actuator**

## MATERIAL SPECIFICATIONS

**Body:** Ductile iron conforming to ASTM A-395, grade 65-45-15, and ASTM A-536, grade 65-45-12

**Clapper:** Aluminum bronze UNS-C95500 or UNS-C36000

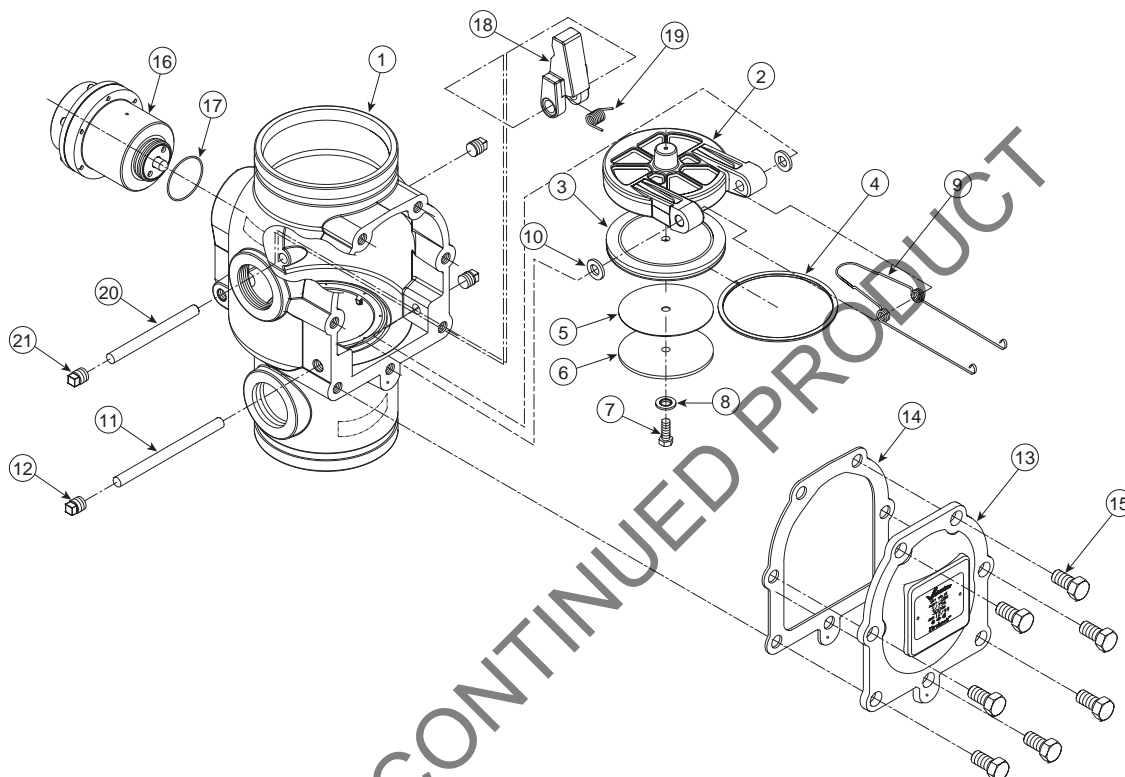
**Latch and Piston:** Aluminum bronze UNS-C95500 or UNS-C36000

**Seat Seal:** EPDM, ASTM D2000

**Seals:** Nitrile

**Springs:** Stainless steel (300 Series)

**Shafts:** Stainless steel 17-4

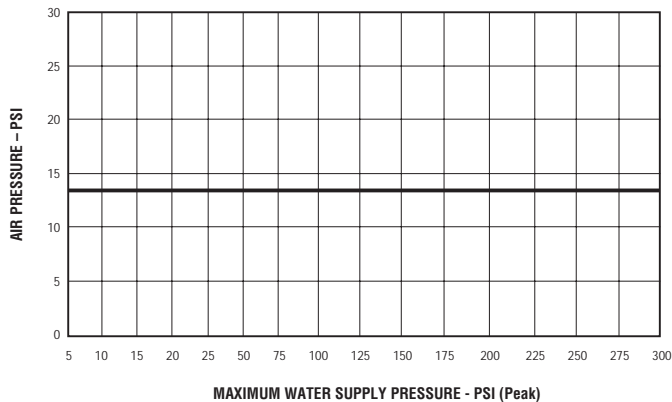


### BILL OF MATERIALS

1 Valve Body	8 Bolt Seal	15 Cover Plate Bolts (Qty. 7)
2 Clapper	9 Clapper Spring	16 Piston
3 Clapper Seal	10 Spacers (Qty. 2)	17 Piston O-ring
4 Seal Ring	11 Clapper Shaft	18 Latch
5 Seal Washer	12 Clapper Shaft Retaining Plug (Qty. 2)	19 Latch Spring
6 Seal Retaining Ring	13 Cover Plate	20 Latch Shaft
7 Seal Assembly Bolt	14 Cover Plate Gasket	21 Latch Shaft Retaining Plug (Qty. 2)

## COMPRESSOR AND AIR MAINTENANCE TRIM FOR 776 LOW-PRESSURE ACTUATOR/798 DOUBLE-PNEUMATIC ACTUATOR/ 79N ELECTRIC PNEUMATIC ACTUATOR

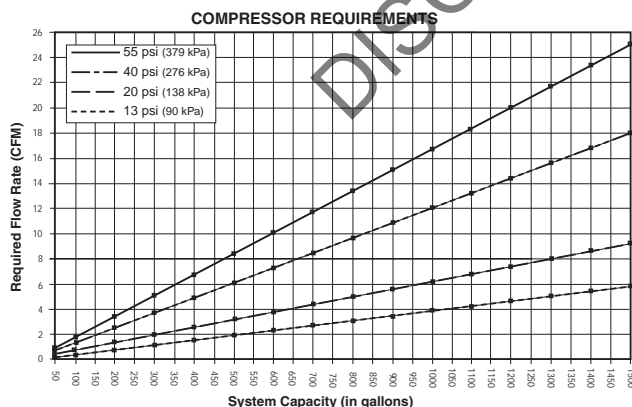
### RECOMMENDED AIR PRESSURES FOR SERIES 758 PREACTION VALVES WITH SERIES 776 LOW-PRESSURE ACTUATORS



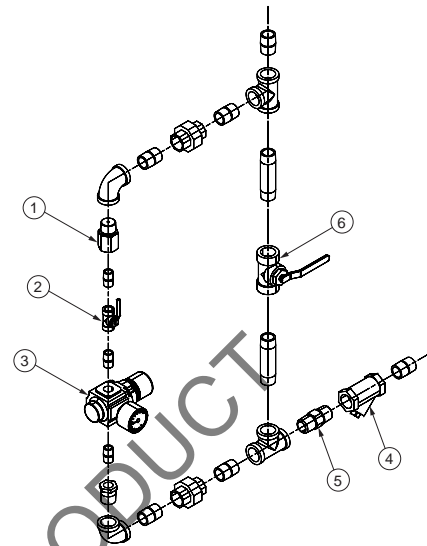
#### NOTES:

- 1) The recommended air pressures, shown in the chart above, apply to preaction valves that use a Series 776 Low-Pressure Actuator at 13-psi (90-kPa) minimum and 18-psi (124-kPa) maximum. If the air pressure is higher than 18-psi (124-kPa), a Series 746 Dry Accelerator should be installed.
- 2) For base or riser-mounted compressors, the recommended air pressures are the "on" or "low" pressure settings for the compressor.
- 3) For tank-mounted compressors, the recommended air pressures are the set point for the air regulator. The "on" pressure of the compressor should be at least 5 psi (34 kPa) above the set point of the regulator.
- 4) The Victaulic air regulator is a relief-type design. Any pressure in the system that is above the set point of the regulator will be released. Therefore, charging the regulator above the set point could cause premature operation of a valve installed with a Series 746 Dry Accelerator.

### COMPRESSOR AND AIR MAINTENANCE TRIM REQUIREMENTS



### Air Maintenance Trim Assembly (AMTA)



#### BILL OF MATERIALS

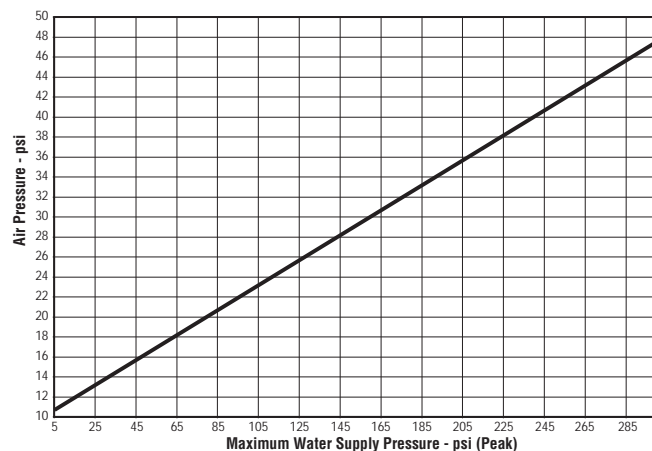
Item	Description
1	1/8-inch (3,2-mm) Restrictor
2	Slow-Fill Ball Valve (Normally Open)
3	Air Regulator
4	Strainer (100 Mesh)
5	Spring-Loaded, Soft-Seated Ball Check Valve
6	Fast-Fill Ball Valve (Normally Closed)

#### NOTICE

- In the event that a compressor becomes inoperative, a properly sized tank-mounted air compressor provides the greatest protection for systems that use a Series 746 Dry Accelerator. In this situation, air can be supplied continuously to the sprinkler system for an extended time period.
- If multiple preaction valves are installed with a common air supply, isolate the systems by using a spring-loaded, soft seat-check valve to ensure air integrity for each system.
- Good practice is to include a control valve for isolation and service of each individual system.

## COMPRESSOR AND AIR MAINTENANCE TRIM FOR 753-A DRY ACTUATORS

### RECOMMENDED AIR PRESSURES FOR PREACTION SYSTEMS CONTAINING SERIES 753-A DRY ACTUATORS



#### NOTES FOR ABOVE CHART:

1) The Victaulic air regulator is a relief-type design. Any pressure in the system that is above the set point of the regulator will be released. Therefore, charging the regulator above the set point could cause premature operation of a valve installed with a Series 746 Dry Accelerator.

2) For base or riser-mounted compressors, the recommended air pressures are the "on" or "low" pressure settings for the compressor.

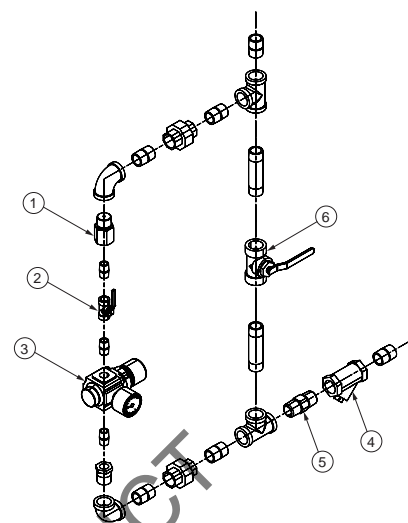
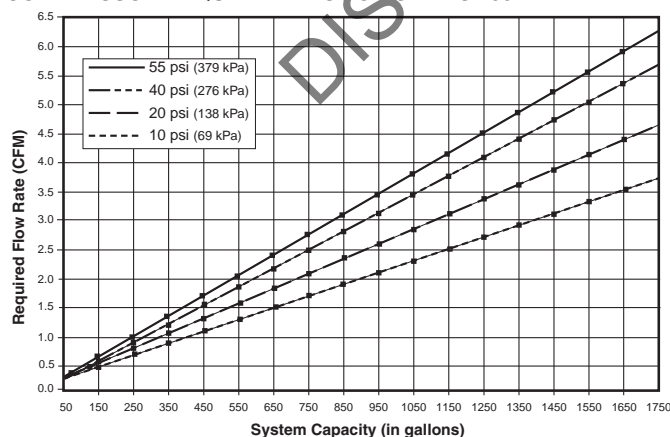
3) For tank-mounted compressors, the recommended air pressures are the set point for the air regulator. The "on" pressure of the compressor should be at least 5 psi (34 kPa) above the set point of the regulator.

4) These pressures involve an 8-to-1 water-to-air ratio, plus a 10-pound safety factor.

EXAMPLE: For a system with an underground pressure of 80 psi (552 kPa):

Per the chart above, the pressure should be set at 20. In addition, this pressure could be calculated by dividing the system's maximum water pressure by 8 and then adding 10 psi (69 kPa).

#### COMPRESSOR REQUIREMENTS FOR SERIES 753-A



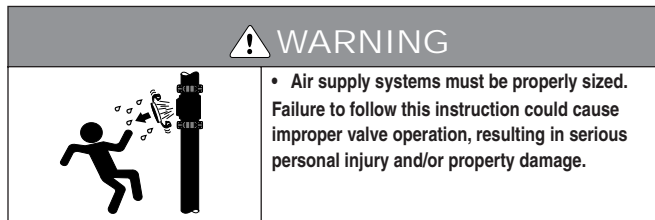
#### BILL OF MATERIALS

Item	Description
1	1/16-inch (3,2-mm) Restrictor
2	Slow-Fill Ball Valve (Normally Open)
3	Air Regulator
4	Strainer (100 Mesh)
5	Spring-Loaded, Soft-Seated Ball Check Valve
6	Fast-Fill Ball Valve (Normally Closed)

#### NOTICE

- In the event that a compressor becomes inoperative, a properly sized tank-mounted air compressor provides the greatest protection for systems that use a Series 746 Dry Accelerator. In this situation, air can be supplied continuously to the sprinkler system for an extended time period.
- If multiple preaction valves are installed with a common air supply, isolate the systems by using a spring-loaded, soft seat-check valve to ensure air integrity for each system.

## AIR SUPPLY DESIGN



- 1 The engineer/system designer is responsible for sizing the compressor so that it brings the entire system to the required pressure within 30 minutes. DO NOT oversize the compressor to provide more airflow, since it will slow down or possibly prevent valve operation.
- 2 Continuous service (24 hours per day, 7 days per week) is required to prevent the valve from false tripping due to a loss of air pressure.
- 3 Regulate the air pressure to the proper system air pressure. Air pressure differing from the required system air pressure could adversely affect system operation.
- 4 Restrict the air supply to ensure that air being exhausted from an open sprinkler or manual release valve is not replaced by the air supply system as fast as it is being exhausted.
- 5 The inspector's test connection should contain a globe valve (normally closed), which can be opened to simulate the actuation of a sprinkler.
  - 5a Locate the inspector's test connection at the most hydraulically demanding location in the release system. **NOTE:** Multiple restrictions on the inspector's test may slow the air decay rate, causing the system to respond slower than required.
  - 5b The inspector's test connection should terminate with an orifice equal to the smallest orifice in the releasing system.
  - 5c The inspector's test connection is used to ensure that water gets to the most remote part of the system within 60 seconds.
- 6 When shop air or a tank-mounted air compressor is installed, the air maintenance trim assembly **MUST** be used. The air maintenance trim assembly provides proper air regulation to the sprinkler system.
  - 6a Set the air regulator to 13 psi (90 kPa).

### Proper Air Supplies for Series 758 Preaction Valves Used with Series 798 Double-Pneumatic Actuators/ Series 753-A Dry Actuators/ Series 79N Electric Pneumatic Actuators/ Series 776 Low-Pressure Actuators:

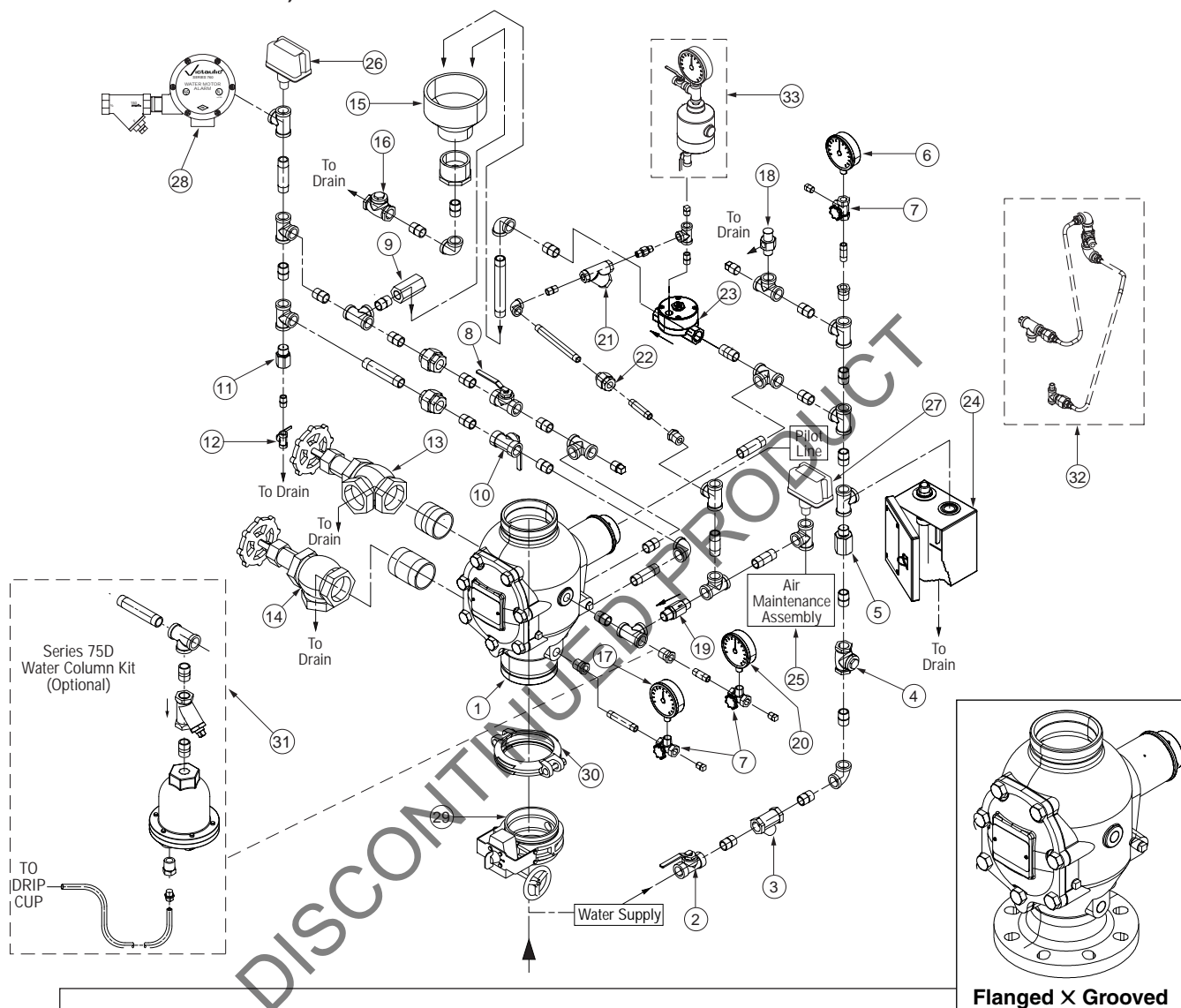
- 1 A preaction valve, installed with a Series 776 Low-Pressure Actuator, **MUST** contain an air regulator.
- 2 When a riser or base-mounted air compressor supplies air to a system using a Series 776 Low-Pressure Actuator, it is not necessary to use the air maintenance trim assembly with the air regulator. In this case, the airline of the compressor connects to the trim at the fitting where the air maintenance trim is normally installed (refer to the trim drawing). **NOTE:** The use of an air regulator with a base or riser-mounted compressor could cause short cycling, resulting in premature wear of the compressor.
- 3 Due to the large on/off differential available for pressure switches that control base-mounted compressors, adjust the compressor's pressure switch so that the "ON" contact is set at 13 psi (90 kPa).

### Proper Air Supplies for Series 758 Preaction Valves Used with Series 753-A Dry Actuators/ Series 79N Electric Pneumatic Actuators/ Series 798 Double-Pneumatic Actuators/ Series 776 Low-Pressure Actuators and Series 746 Dry Accelerators:

- 1 When a Series 746 Dry Accelerator is used with the Series 776 Low-Pressure Actuator, the air maintenance trim assembly **MUST** be used with the air regulator.
- 2 In the event that a compressor becomes inoperative, a properly sized tank-mounted air compressor provides the greatest protection for systems that use a Series 746 Dry Accelerator. In this situation, air can be supplied continuously to the sprinkler system for an extended time period.

## TRIM

**Series 758 Actuated Valve with Non-Interlocked – Pneumatic Release – Preaction Trim**  
**(Pressure Switch, Supervisory Switch, Accelerator/Anti-Flood Device, Dry Actuator and**  
**Air Maintenance Trim OPTIONAL)**



### BILL OF MATERIALS

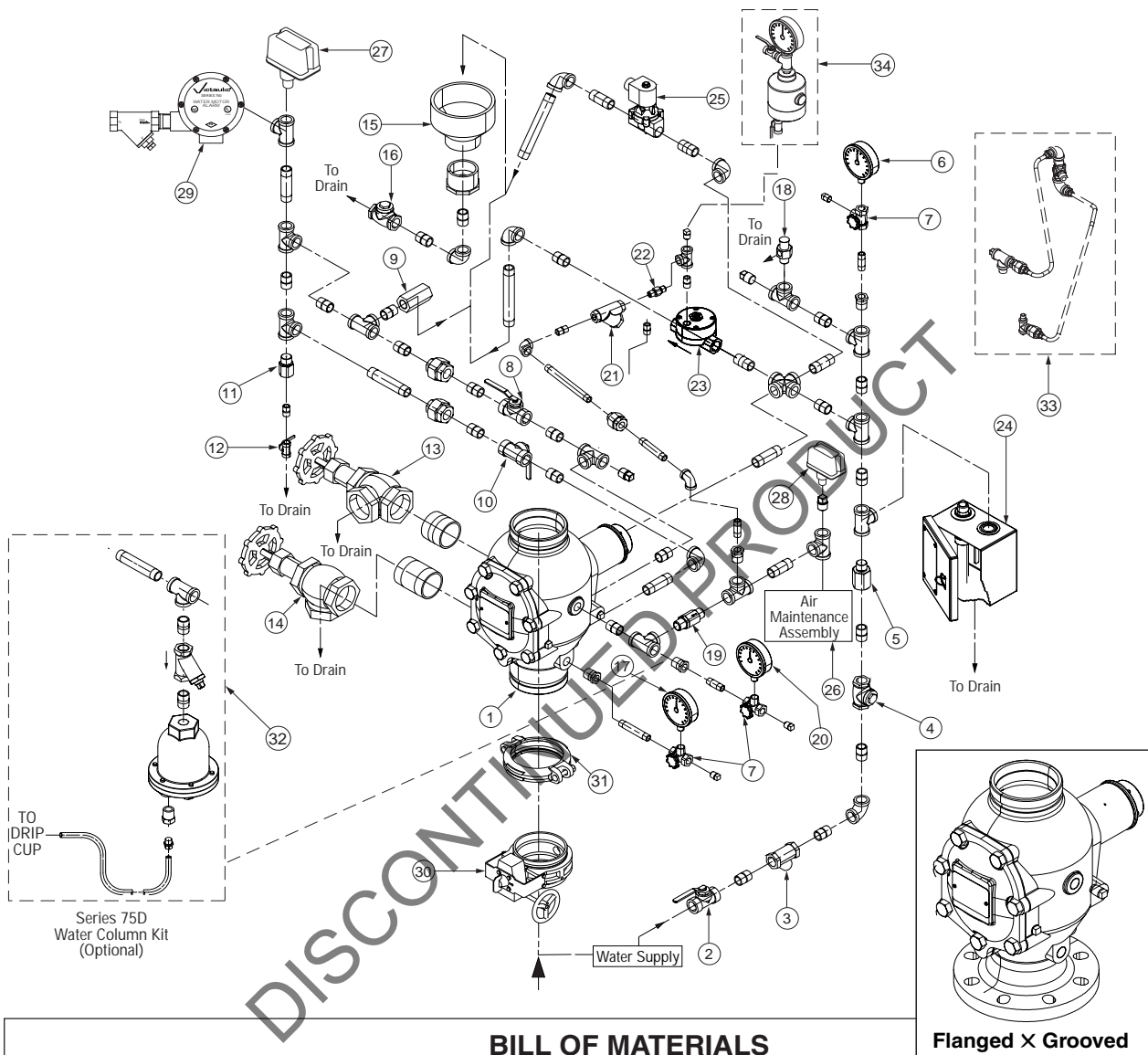
1	Series 758 FireLock Actuated Check Valve with Non-Interlock (pneu/pneu) trim	17	Water Supply Pressure Gauge (0-300 psi)
2	Piston Charge Line Ball Valve (NO)	18	Series 749 AutoDrain
3	Piston Charge Line Strainer (100 Mesh)	19	Series 748 Ball Check Valve
4	Piston Charge Line Swing Check Valve	20	System Pressure Gauge (0-80 psi with retard)
5	Piston Charge Line Restrictor (1/16")	21	Air Line Strainer (100 Mesh)
6	Piston Charge Line Pressure Gauge (0-300 psi)	22	Air Line Restrictor (1/16")
7	Gauge Valve	23	Series 753A Dry Actuator
8	Alarm Line Ball Valve (NO)	24	Series 755 Manual Pull Station
9	Series 729 Drip Check Valve	25	Series 757 Air Maintenance Device (Optional)
10	Alarm Test Line Ball Valve (NC)	26	EPS-10 Alarm Pressure Switch (Optional)
11	Alarm Line Drain Restrictor (1/16")	27	EPS-40 Supv. Switch (Optional)
12	Alarm Line Drain Ball Valve (NC)	28	Series 760 Water Motor Alarm (Optional)
13	Main System Drain Valve	29	Series 705W Butterfly Valve (Optional)
14	Main Drain Valve - Flow Test	30	Style 005 FireLock Rigid Coupling (Optional)
15	Drip Cup	31	Series 75D Water Column Kit (Optional)
16	Drain Swing Check Valve	32	Series 75B Supplemental Alarm Kit (Optional)
		33	Series 746 Dry Accelerator



## TRIM

### Series 758 Actuated Valve

with Non-Interlocked – Pneumatic/Electric Release – Preaction Trim (Pressure Switch, Supervisory Switch, Accelerator/Anti-Flood Device, Dry Actuator, Solenoid Actuator and Air Maintenance Trim OPTIONAL)



### BILL OF MATERIALS

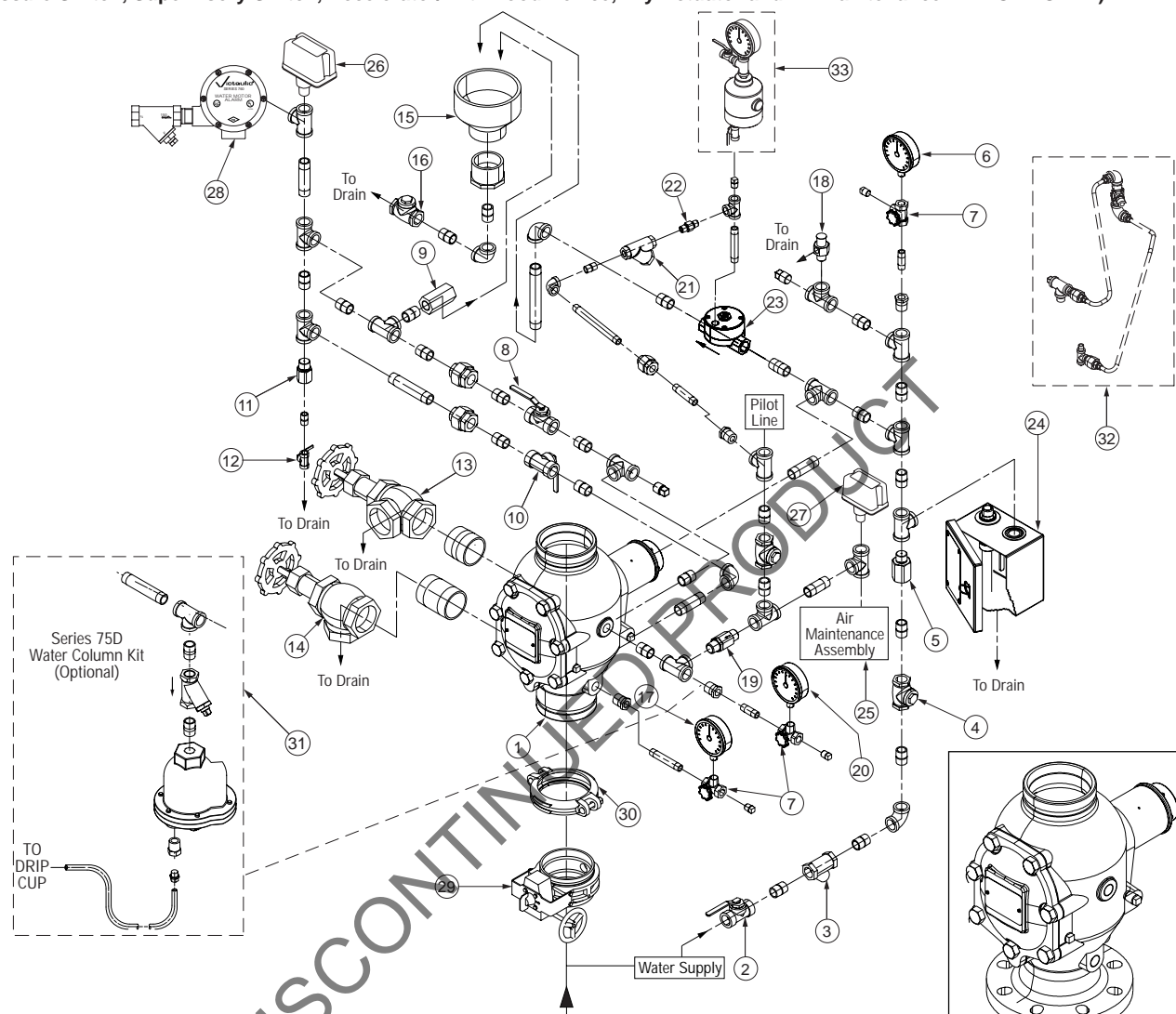
1	Series 758 FireLock Actuated Check Valve with Non-Interlock (pneu/elec) trim	18	Series 749 AutoDrain
2	Piston Charge Line Ball Valve (NO)	19	Series 748 Ball Check
3	Piston Charge Line Strainer (100 Mesh)	20	System Pressure Gauge (0-80 psi with retard)
4	Piston Charge Line Check Valve	21	Air Line Strainer (100 Mesh)
5	Piston Charge Line Restrictor (1/16")	22	Air Line Restrictor (1/16")
6	Piston Charge Line Pressure Gauge (0-300 psi)	23	Series 753A Dry Actuator
7	Gauge Valve	24	Series 755 Manual Pull Station
8	Alarm Line Ball Valve (NO)	25	753E Electric Solenoid Valve
9	Series 729 Drip Check Valve	26	Series 757 Air Maintenance Device (Optional)
10	Alarm Test Line Ball Valve (NC)	27	EPS-10 Alarm Pressure Switch (Optional)
11	Alarm Line Drain Restrictor (1/16")	28	EPS-40 Supervisory Switch (Optional)
12	Alarm Line Drain Ball Valve (NC)	29	Series 760 Water Motor Alarm (Optional)
13	Main System Drain Valve	30	Series 705W Butterfly Valve (Optional)
14	Main Drain Valve - Flow Test	31	Style 005 FireLock Rigid Coupling (Optional)
15	Drip Cup	32	Series 75D Water Column Kit (Optional)
16	Drain Check Valve	33	Series 75B Supplemental Alarm Kit (Optional)
17	Water Supply Pressure Gauge (0-300 psi)	34	Series 746 Dry Accelerator

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## TRIM

### Series 758 Actuated Valve with Single Interlocked – Pneumatic Release – Preaction Trim

(Pressure Switch, Supervisory Switch, Accelerator/Anti-Flood Device, Dry Actuator and Air Maintenance Trim OPTIONAL)



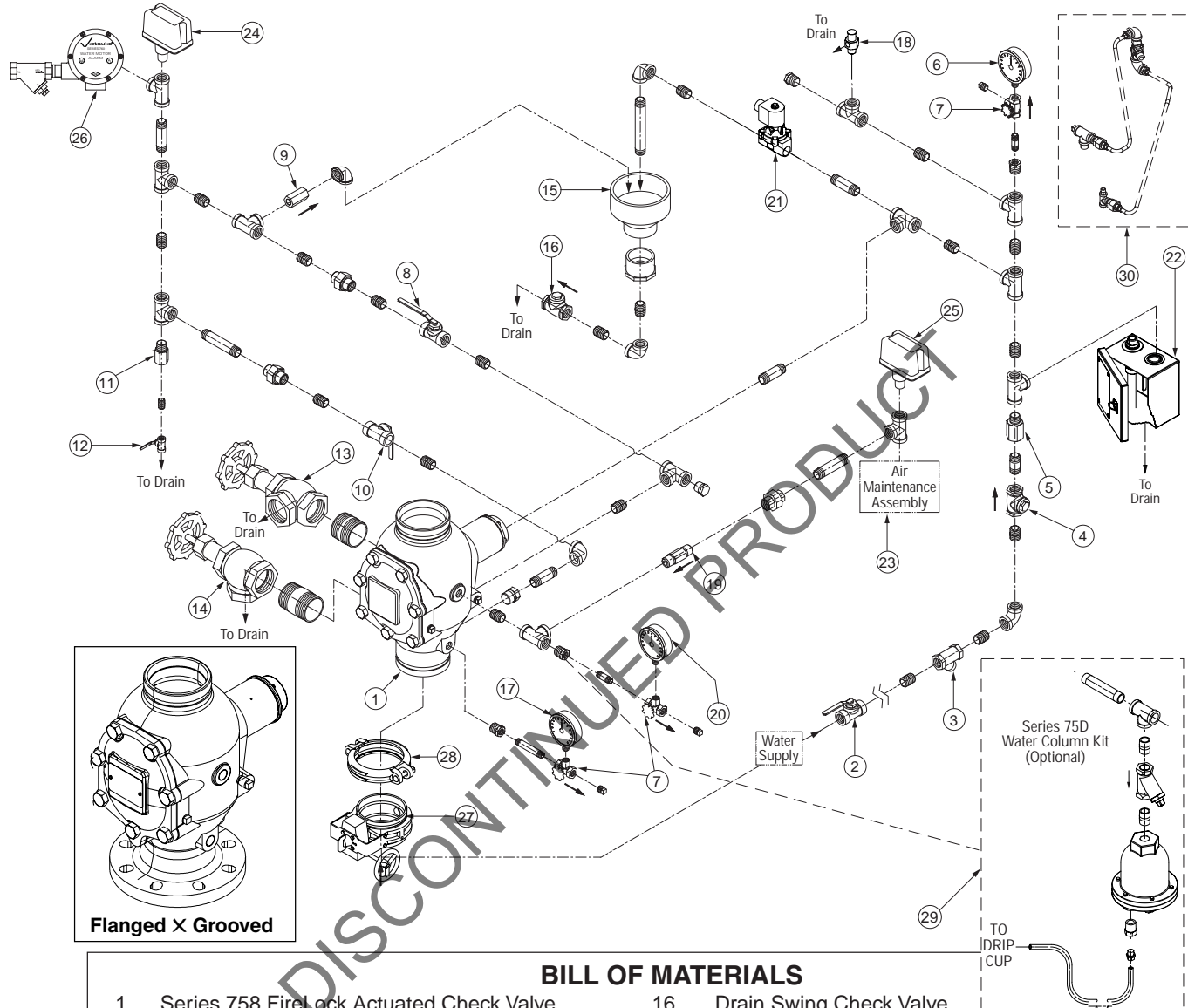
### BILL OF MATERIALS

1	Series 758 FireLock Actuated Check Valve with Single-Interlock (pneu/pneu) trim	17	Water Supply Pressure Gauge (0-300 psi)
2	Piston Charge Line Ball Valve (NO)	18	Series 749 AutoDrain
3	Piston Charge Line Strainer (100 Mesh)	19	Series 748 Ball Check Valve
4	Piston Charge Line Swing Check Valve	20	System Pressure Gauge (0-80 psi with retard)
5	Piston Charge Line Restrictor (1/16")	21	Air Line Strainer (100 Mesh)
6	Piston Charge Line Pressure Gauge (0-300 psi)	22	Air Line Restrictor (1/16")
7	Gauge Valve	23	Series 753A Dry Actuator
8	Alarm Line Ball Valve (NO)	24	Series 755 Manual Pull Station
9	Series 729 Drip Check Valve	25	Series 757 Air Maintenance Device (Optional)
10	Alarm Test Line Ball Valve (NC)	26	EPS-10 Alarm Pressure Switch (Optional)
11	Alarm Line Drain Restrictor (1/16")	27	EPS-40 Supv. Switch (Optional)
12	Alarm Line Drain Ball Valve (NC)	28	Series 760 Water Motor Alarm (Optional)
13	Main System Drain Valve	29	Series 705W Butterfly Valve (Optional)
14	Main Drain Valve - Flow Test	30	Style 005 FireLock Rigid Coupling (Optional)
15	Drip Cup	31	Series 75D Water Column Kit (Optional)
16	Drain Swing Check Valve	32	Series 75B Supplemental Alarm Kit (Optional)
		33	Series 746 Dry Accelerator

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## TRIM

**Series 758 Actuated Valve with Electric Release – Preaction Trim (Single Interlock and Double Interlock)**  
**(Pressure Switch, Supervisory Switch, Solenoid Actuator and Air Maintenance Trim OPTIONAL)**

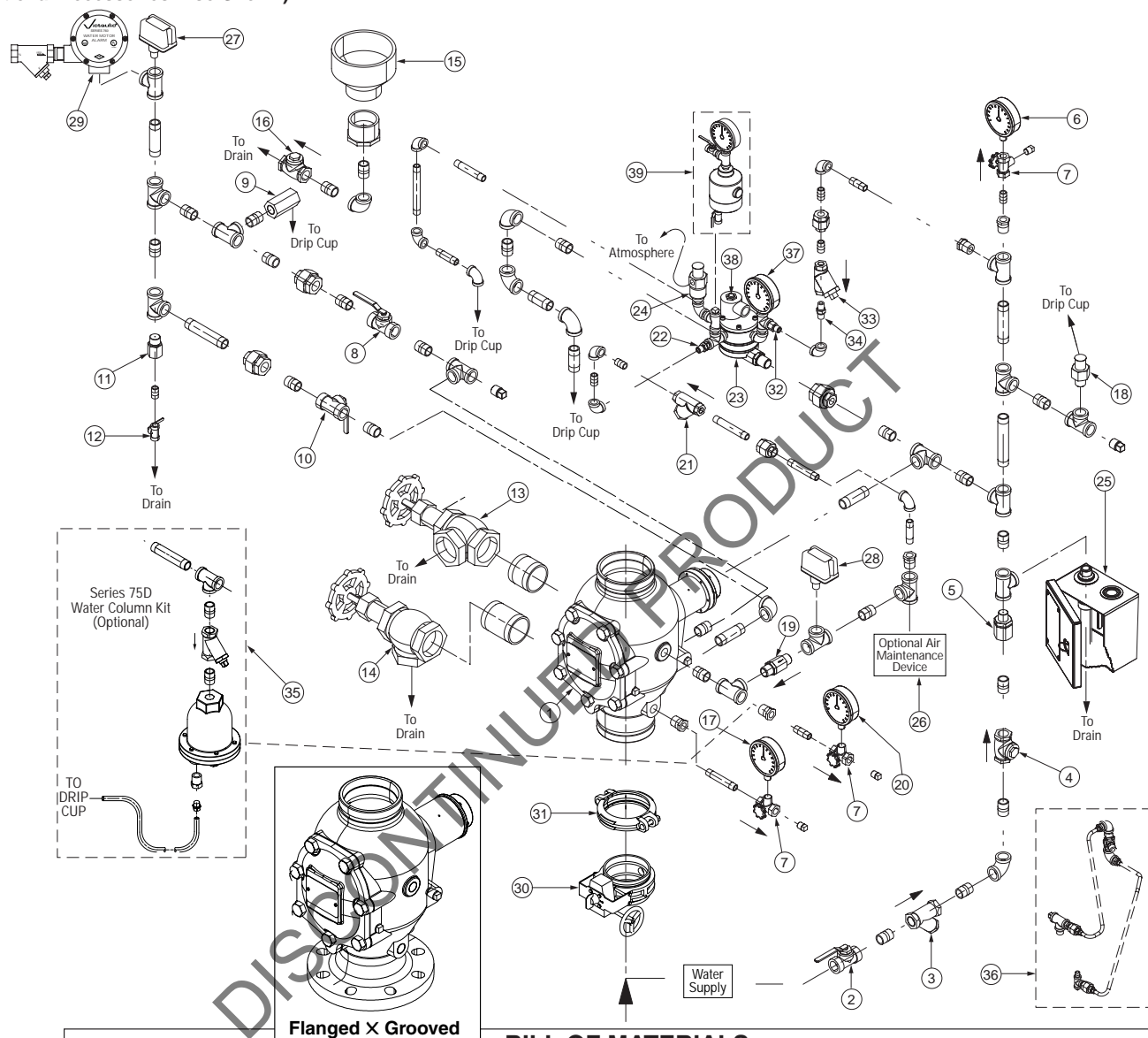


## BILL OF MATERIALS

- |    |  |    |  |
|----|--|----|--|
| 1  | Series 758 FireLock Actuated Check Valve<br>with electric release trim | 16 | Drain Swing Check Valve                      |
| 2  | Piston Charge Line Ball Valve (NO)                                     | 17 | Water Supply Pressure Gauge (0-300 psi)      |
| 3  | Piston Charge Line Strainer (100 Mesh)                                 | 18 | Series 749 AutoDrain                         |
| 4  | Piston Charge Line Swing Check Valve                                   | 19 | Series 748 Ball Check Valve                  |
| 5  | Piston Charge Line Restrictor (1/16")                                  | 20 | System Pressure Gauge (0-80 psi with retard) |
| 6  | Piston Charge Line Pressure Gauge (0-300 psi)                          | 21 | Series 753E Electric Solenoid Valve          |
| 7  | Gauge Valve  | 22 | Series 755 Manual Pull Station               |
| 8  | Alarm Line Ball Valve (NO)   | 23 | Series 757 Air Maintenance Device (Optional) |
| 9  | Series 729 Drip Check Valve  | 24 | EPS-10 Alarm Pressure Switch (Optional)      |
| 10 | Alarm Test Line Ball Valve (NC)  | 25 | EPS-40 Supv. Switch (Optional)               |
| 11 | Alarm Line Drain Restrictor (1/16")                                    | 26 | Series 760 Water Motor Alarm (Optional)      |
| 12 | Alarm Line Drain Ball Valve (NC)                                       | 27 | Series 705W Butterfly Valve (Optional)       |
| 13 | Main System Drain Valve  | 28 | Style 005 FireLock Rigid Coupling (Optional) |
| 14 | Main Drain Valve - Flow Test   | 29 | Series 75D Water Column Kit (Optional)       |
| 15 | Drip Cup   | 30 | Series 75B Supplemental Alarm Kit (Optional) |

## TRIM

### Series 758 Actuated Valve with Double Interlock, Pneumatic/Electric Release – Preaction Trim (Optional Accessories Also Shown)



#### BILL OF MATERIALS

- |  |   |
|--|---|
| 1 Series 758 FireLock Actuated Check Valve                 | 21 Airline Strainer (100 Mesh)                  |
| 2 Piston Charge Line Ball Valve (NO)                       | 22 Airline Restrictor (1/16")*                  |
| 3 Piston Charge Line Strainer (100 Mesh)                   | 23 Series 79N Electric/Pneumatic Actuator       |
| 4 Piston Charge Line Swing Check Valve                     | 24 Auto Vent*                                   |
| 5 Piston Charge Line Restrictor (.070)                     | 25 Series 755 Manual Pull Station               |
| 6 Piston Charge Line Pressure Gauge (0-300 psi/0-2068 kPa) | 26 Series 757 Air Maintenance Device (Optional) |
| 7 Gauge Valve  | 27 EPS-10 Alarm Pressure Switch (Optional)      |
| 8 Alarm Line Ball Valve (NO)                               | 28 EPS-40 Supervisory Switch (Optional)         |
| 9 Series 729 Drip Check Valve                              | 29 Series 760 Water Motor Alarm (Optional)      |
| 10 Alarm Test Ball Valve (NC)                              | 30 Series 705W Butterfly Valve (Optional)       |
| 11 Alarm Line Drain Restrictor (1/16")                     | 31 Style 005 FireLock Rigid Coupling (Optional) |
| 12 Alarm Line Drain Ball Valve (NC)                        | 32 Upper Chamber Inlet Restrictor (1/32")*      |
| 13 System Main Drain Valve                                 | 33 Upper Chamber Strainer (100 Mesh)            |
| 14 Water Supply Main Drain Valve                           | 34 Upper Chamber Check Valve (1/4")             |
| 15 Drip Cup  | 35 Series 75D Water Column Kit (Optional)       |
| 16 Drain Swing Check Valve                                 | 36 Series 75B Supplemental Alarm Kit (Optional) |
| 17 Water Supply Pressure Gauge (0-300 psi/0-2068 kPa)      | 37 Series 79N Upper Chamber Pressure Gauge      |
| 18 Series 749 AutoDrain                                    | 38 Series 79N Solenoid Coil                     |
| 19 Series 748 Ball Check Valve                             | 39 Series 746 Dry Accelerator (Optional)        |
| 20 System Pressure Gauge (0-80 psi/0-552 kPa with retard)  |   |

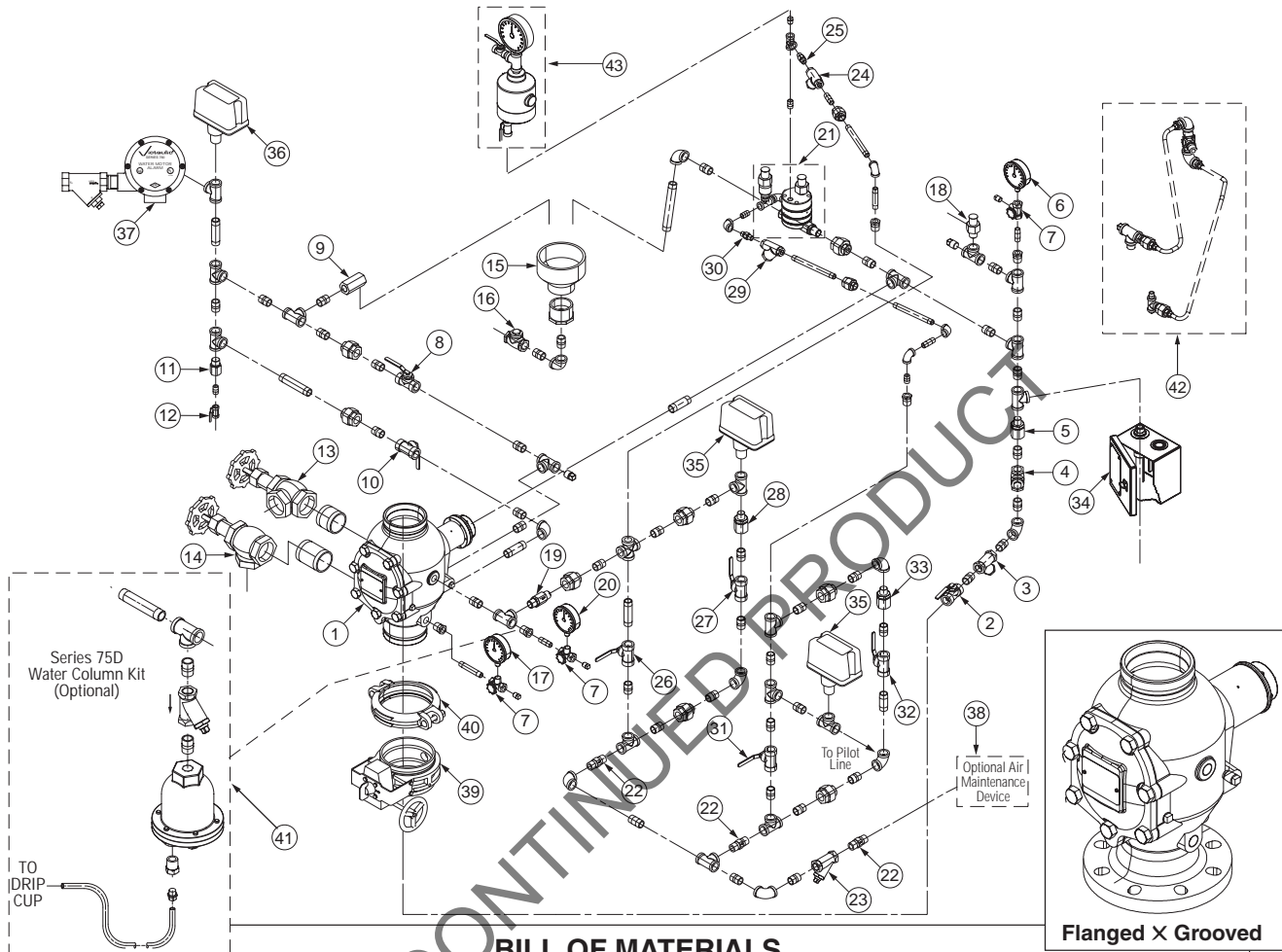
NO = Normally Open; NC = Normally Closed

\* Part of the Series 79N Assembly



## TRIM

**Series 758 Actuated Valve with Double Interlocked – Pneumatic/Pneumatic Release – Preaction Trim**  
**(Pressure Switch, Supervisory Switch, Dry Actuator, Accelerator/Anti-Flood Device, Solenoid Actuator**  
**and Air Maintenance Trim OPTIONAL)**



### BILL OF MATERIALS

- |   |  |
|---|--|
| 1 Series 758 FireLock Actuated Check Valve with Double-Interlock (Pneumatic/Pneumatic) Trim | 22 Air Isolation Check Valves-1/2" (12,7 mm) Spring-Loaded, Soft-Seated Ball Check |
| 2 Piston Charge Line Ball Valve (NO)  | 23 Air Inlet Strainer (100 Mesh)   |
| 3 Piston Charge Line Strainer (100 Mesh)  | 24 System Air Line Strainer (100 Mesh)   |
| 4 Piston Charge Line Swing Check Valve  | 25 1/16" (1,6 mm) System Air Line Restrictor                                       |
| 5 Piston Charge Line Restrictor (0.070"/1,8 mm)   | 26 System Air Fast Fill Line Ball Valve (NC)                                       |
| 6 Piston Charge Line Pressure Gauge (0-300 psi/0-2068 kPa)                                  | 27 System Air Slow Fill Line Ball Valve (NO)                                       |
| 7 Gauge Valve   | 28 1/16" (1,6 mm) System Air Line Restrictor                                       |
| 8 Alarm Line Ball Valve (NO)  | 29 Pilot Line Air Strainer (100 Mesh)  |
| 9 Series 729 Drip Check Valve   | 30 1/16" (1,6 mm) Pilot Air Line Restrictor  |
| 10 Alarm Test Line Ball Valve (NC)  | 31 Pilot Air Fast Fill Line Ball Valve (NC)  |
| 11 1/16" (1,6 mm) Alarm Line Drain Restrictor   | 32 Pilot Air Slow Fill Line Ball Valve (NO)  |
| 12 Alarm Line Drain Ball Valve (NC)   | 33 1/16" (1,6 mm) Pilot Air Line Restrictor  |
| 13 Main System Drain Valve  | 34 Series 755 Manual Pull Station  |
| 14 Main Drain Valve - Flow Test   | 35 EPS-40 Low Air Pressure Switch (Optional)                                       |
| 15 Drip Cup   | 36 EPS-10 Alarm Pressure Switch (Optional)   |
| 16 Drain Swing Check Valve  | 37 Series 760 Water Motor Alarm (Optional)   |
| 17 Water Supply Pressure Gauge (0-300 psi/0-2068 kPa)                                       | 38 Series 757 Air Maintenance Device (Optional)                                    |
| 18 Series 749 AutoDrain   | 39 Series 705W Butterfly Valve with Tap (Optional)                                 |
| 19 Series 748 Ball Check Valve  | 40 Style 005 FireLock® Rigid Coupling (Optional)                                   |
| 20 System Pressure Gauge (0-80 psi/0-552 kPa with retard)                                   | 41 Series 75D Water Column Kit (Optional)  |
| 21 Series 798 Double Pneumatic Actuator   | 42 Series 75B Supplemental Alarm Kit (Optional)                                    |
|   | 43 Series 746 Dry Accelerator  |

NO = Normally Open; NC = Normally Closed

This product shall be manufactured by Victaulic Company. 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.