



## TECHNICAL DATA

**DELUGE FOAM/WATER  
SYSTEM SUPPLIED  
BY FOAM PUMP**

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058

Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

### 1. DESCRIPTION

A Foam Deluge System Supplied by a Foam Pump is a standard deluge system capable of discharging foam/water solution automatically through any discharge device supplied from the deluge system piping. A deluge foam/water system with a hydraulically actuated Halar<sup>®</sup> coated concentrate control valve consists of a Viking deluge valve (A) complete with standard deluge trim, detection and releasing devices on the water supply line, an In-line Balanced Proportioner Assembly (proportioning device) (B), which includes a concentrate controller, listed orifice plate, spool balancing valve and swing check valve, hydraulically actuated Halar<sup>®</sup> coated concentrate control valve (C) on foam concentrate line, a foam concentrate atmospheric tank and trim, and foam concentrate agent.

### 2. LISTINGS AND APPROVALS

No formal approval as a system. Main component approvals listed below.

- Deluge Valve and Trim
  - UL Listed - Guide VLFT
  - FM - Automatic Water Control Valves
- In-line Balanced Pressure Proportioner (ILBP)
  - UL Listed - Guide GFGV
  - FM Approved - Low Expansion Foam Systems
- Halar<sup>®</sup> Coated Concentrate Control Valve (CCV)
  - UL Listed - Guide VLFT
  - FM Approved - Automatic Water Control Valve as standard deluge valve. No formal approval available for coating.
- Foam Concentrate
  - UL Listed - Guide GFGV
  - FM Approved - Low Expansion Foam Systems

### 3. TECHNICAL DATA

#### Specifications:

Refer to individual component technical data page.

#### Material Standards:

Refer to individual component technical data page.

#### Ordering Information:

Refer to Tables 1 through 3.

Viking Technical Data may be found on  
The Viking Corporation's Web site at  
<http://www.vikinggroupinc.com>.  
The Web site may include a more recent  
edition of this Technical Data Page.

### 4. INSTALLATION

#### A. Discharge Devices

- Standard Spray Sprinklers (Open Type)
- Foam chambers
- Foam makers
- Oscillating Monitors & Nozzles
- Fixed Monitors and nozzles
- Spray Nozzles
- Listed discharge devices are tested with specific concentrates and may have different listed densities that what is listed in various NFPA standards. AR-AFFF foam concentrates are listed with specific discharge devices and the fuels they are to protect.

#### B. General Instructions and Warnings

1. Refer to the Warnings and General Notes on pages 2a-d in the "Foam Design" section of the *Viking Foam Systems Engineering and Design Data* book.
2. Refer to specific technical data sheets, acceptable installation standards, codes and Authority Having Jurisdiction for additional installation, operation, and maintenance instructions.
3. Inspections – It is imperative that the system is inspected and tested on a regular basis. See Section 6 - Inspections, Tests, and Maintenance.
4. **Warning** – Any system maintenance or testing that involves placing a control valve or detection system out of service may eliminate the fire protection of that system. Prior to proceeding, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the effected area.
5. The valve, trim and assembly must be installed in an area not subject to freezing temperatures or physical damage..



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### C. Design and Installation

**Warning:** Locate all portions of the foam/water system subject to freezing in a heated area.

1. Refer to the Special Notes section on page 20d and Warnings and General Notes on pages 2a-d in the "Foam Design" section of the Viking foam data book.
2. Install the deluge valve and trim (A) in accordance with *Viking Engineering and Design Data* book.
3. Install the proportioning device, ILBP assembly (B), in the riser at least 5 pipe diameters past the deluge valve. (The ILBP assembly must be installed 5 pipe diameters of straight piping past a valve or change of direction. The same 5 pipe diameters of straight pipe are required on the discharge side of the ILBP as well to ensure proper proportioning.)
4. Install foam solution test valve (7) and system isolation valve (8). These valves are required to facilitate annual foam proportioning tests. The system isolation valve (8) is in the normally open position when the system is in operation. The solution test valve (7) is in the normally closed position when the system is in operation. When the system is to be tested annually for proportioning, the system isolation valve (8) is closed to eliminate foam water solution from entering the system piping. The solution test valve (7) is opened once a flow rate is established in the riser. The solution test valve is normally sized the same size as the riser piping to accept the design flow of the system. The discharge of the solution test valve is normally piped to a test header with 2½" angle valves to aid in controlling the discharge of foam solution.
5. Install the hydraulically actuated Halar® coated concentrate control valve (C) and associated trim as indicated on trim charts or technical data pages.
6. A concentrate shut-off valve (3) located upstream of the Halar® coated concentrate control valve (C) is required to isolate the Halar® coated concentrate control valve (C) when setting up the system or when repairs are to be made to the foam/deluge system.
7. Install the foam pump skid assembly and atmospheric storage tank in accordance with manufacturers instructions.
  - a. Install the foam pump skid and foam atmospheric storage tank. Install the concentrate piping from the discharge of the foam pump skid to the concentrate shut-off valve (3). Locate the concentrate shut-off valve as close as practical to the ILBP assembly. Note: Allow enough room around the foam pump and atmospheric storage tank for service.
  - b. Allow access to atmospheric storage tank for filling from barrels of foam concentrate.
  - c. All valves and devices should be located for easy access for operation and maintenance.

### D. Placing System in Service

1. Verify that the water supply control valve (1) is closed, then place deluge valve (A) in service. (See instructions on Viking Technical Data Sheet.)
  - a. Open the system isolation valve (8) if closed.
  - b. Close the solution test valve (7) if open.
2. Set the deluge valve release system according to the installation instructions for type of deluge system used.
3. Prime both the Viking deluge valve (A) and Halar® coated concentrate control valve (C) by opening the priming valve on the deluge valve trim. Bleed off any air pressure trapped in the priming line (2) to the Halar® coated concentrate control valve (C) by opening the 3-way pressure gauge valve (6).
4. Open the water supply control valve (1) after the deluge valve has been primed. There should not be any water flowing from trim outlets. If water is discharging from trim outlets, refer to Viking technical data pages for trouble shooting and proper installation of trim piping.
5. Place foam pumping system in service. The concentrate shut-off valve (3) will be in the closed position until foam pump system is placed in service. Foam concentrate pressure will be indicated on the foam concentrate pressure gauge (4) located upstream of the of the concentrate shut-off valve (3). Once pressure is indicated on concentrate pressure gauge (4), slowly open foam concentrate shut-off valve (3).
6. Once the foam concentrate shut-off valve (3) is opened, verify that foam concentrate is not passing by the Halar® coated concentrate control valve (C) by opening the ½" foam concentrate auxiliary drain valve (5). If foam concentrate appears, close the concentrate shut-off valve (3) immediately. If foam concentrate is passing by the Halar® coated concentrate control valve (C), the valve is not seating and is most likely fouled. Debris must be removed from seat of Halar® coated concentrate control valve (C).

### E. Removing the System From Service

1. For system and riser piping maintenance and service:
  - a. Close the water supply control valve (1).
  - b. Close the concentrate shut-off valve (3).
  - c. Open all drain valves on deluge system.

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- d. Leave the system isolation valve (8) open.
  - e. Refer to the instructions for removing the deluge valve (C) from service in the *Viking Engineering and Design Data* book.
  - f. Perform maintenance and service on system and riser piping.
  - g. If maintenance is required to be performed on concentrate piping, remove foam pump and foam jockey pump if applicable from service. Open concentrate drain valve to relieve pressure from concentrate supply piping.
- NOTE:** If repairs or modifications are required on the foam concentrate supply piping, the deluge may be kept in service for protection, while repairs to the foam system concentrate piping are performed.

## 5. OPERATION

Actuation of the release system of the deluge system relieves the priming pressure of the deluge valve and the priming pressure present in the Halar<sup>®</sup> coated concentrate control valve (C). Once the deluge valve (A) opens, water passes through the concentrate controller of the ILBP (In-Line Balanced Proportioner) (B). The foam pump will provide foam concentrate at a higher pressure than the water pressure passing through the riser. The pressures will be balanced by the spool balancing valve that is integral to the ILBP. The foam pump is normally started on a pressure loss in the concentrate piping line. The foam pump may also start through the water pressure switch on the deluge valve trim. If more than fifty feet of overhead concentrate piping is present on the discharge side of the foam pump or if any of the piping is installed underground, a means of checking the tightness of the piping is required per NFPA. This may necessitate a foam jockey pump to maintain the pressure on the concentrate line.

Once water passes through the concentrate controller, foam concentrate is discharged into the concentrate controller through an orifice listed and approved for the foam concentrate to be utilized. The foam and water mix and create a foam/water solution. A foam blanket is created once it has discharged through the discharge device(s). A foam blanket is produced through one of two actions, agitation as what would happen when discharged through a standard sprinkler head, or aeration as what would happen when discharged through a foam chamber or foam maker. The foam blanket that is created by the discharge device is part of the listing or approval obtained with the foam concentrate testing.

## 6. INSPECTION, TESTS, AND MAINTENANCE

**NOTICE:** The owner is responsible for maintaining the fire protection system and devices in proper operating condition. For minimum maintenance and inspection requirements, refer to recognized standards such as those produced by NFPA, LPC and VdS, which describe care and maintenance of sprinkler systems. In addition, the Authority Having Jurisdiction may have additional maintenance, testing and inspection requirements that must be followed.

**WARNING** - Any system maintenance or testing that involves placing a control valve or detection system out of service may eliminate the fire protection of that system. Prior to proceeding, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected area.

**Inspections** - It is imperative that the system is inspected and tested on a regular basis. The following recommendations are minimum requirements. The frequency of the inspections may vary due to contaminated or corrosive water supplies and corrosive atmospheres. In addition, the alarm devices or other connected equipment may require more frequent inspections. Refer to the technical data, system description, applicable codes, and Authority Having Jurisdiction for minimum requirements. Prior to testing the equipment, notify appropriate personnel.

## 7. AVAILABILITY

The Deluge Foam/Water System Supplied by Foam Pump is available through a network of domestic and international distributors. See the Viking Corp. web site for closest distributor or contact The Viking Corporation.

## 8. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.

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**SPECIAL NOTES**

- A. Provide a minimum of 5 pipe diameters of straight pipe on the inlet and outlet of the concentrate controller (B) to minimize turbulence inside the concentrate controller.
- B. The combined total equivalent length of pipe, fittings and valves in both the water supply inlet piping and the foam concentrate discharge piping, must not exceed 50 equivalent feet (15.2 meters). This will allow both pipes to be the same size as the foam liquid inlet to the concentrate controller. Should the total equivalent length exceed 50 feet (15.2 meters), then refer to the "Proportioning Equipment" section of the foam data book for the method of calculating these pipe sizes.
- C. The Halar<sup>®</sup> coated concentrate control deluge valve (C) and swing check valve must be connected adjacent to the concentrate controller using pipe nipples as short as possible.
- D. Figures 1 - 3 are general schematics of the required piping arrangement. Refer to the appropriate technical data page for specific information regarding the valve, tank, and related trim and devices.
- E. The technical information, statements, and recommendations contained in this manual are based on information and tests which, to the best of our knowledge, we believe to be dependable. It represents general guidelines only, and the accuracy or completeness thereof, are not guaranteed since conditions of handling and usage are outside our control. The purchaser should determine the suitability of the product for its intended use and assumes all risks and liability whatsoever in connection therewith.
- F. The Halar<sup>®</sup> coated concentrate control deluge valve (C) does not require any trim, except for a 1/2" priming line and water pressure gauge and 3-way valve from the main deluge valve (A) to the priming chamber of valve (C). Plug all the remaining valve trim outlets. Connect Halar<sup>®</sup> coated concentrate control deluge valve (C) priming line to deluge valve (A) as shown on Figures 1 - 3. Refer to the "Valves" section of this data book to find the correct trim kit part number for the corresponding size of Halar<sup>®</sup> coated foam concentrate control deluge valve (C) required.
- G. A strainer is not required in the foam concentrate discharge piping of bladder tank systems per NFPA Standards.

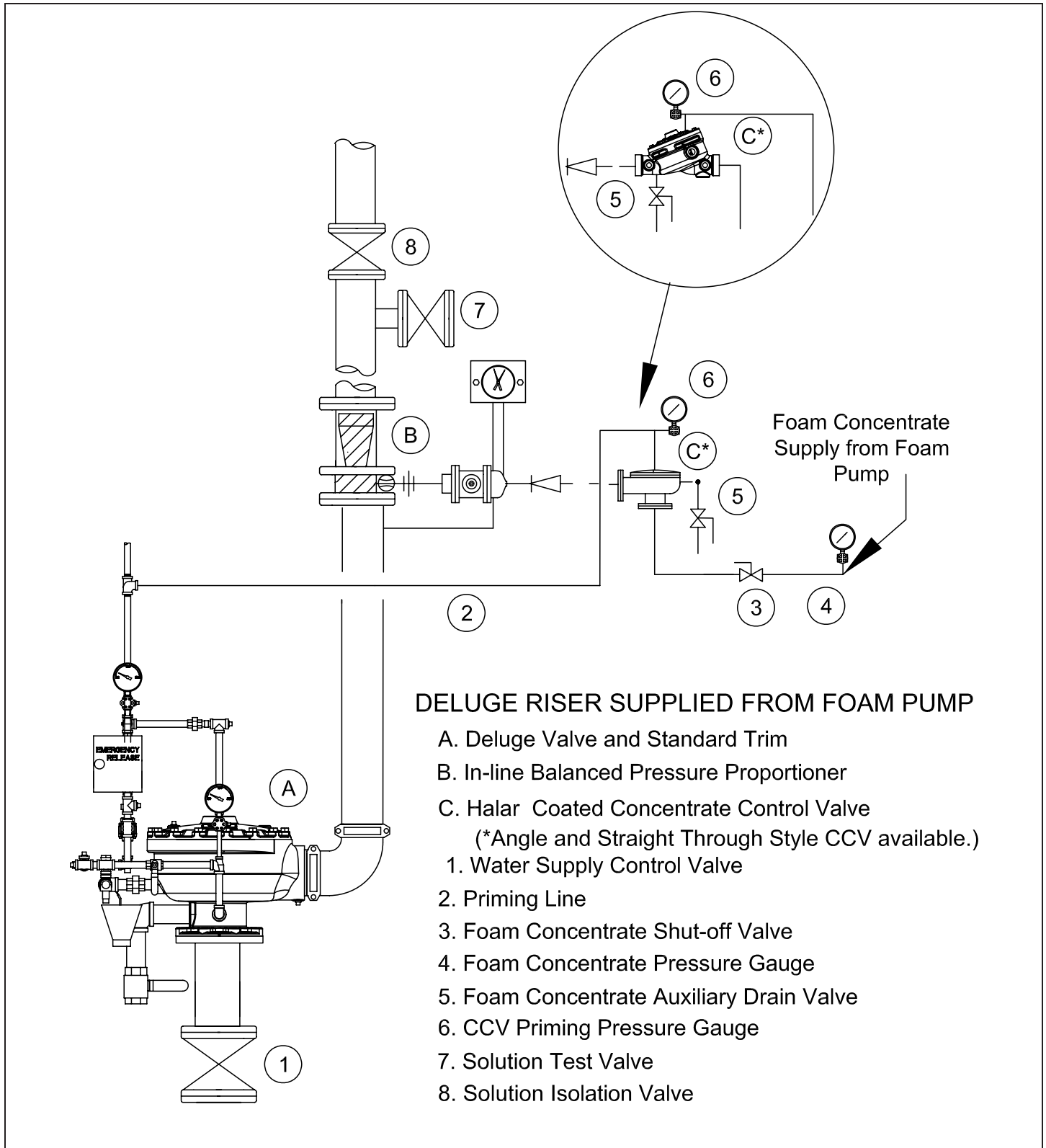
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**Figure 1**

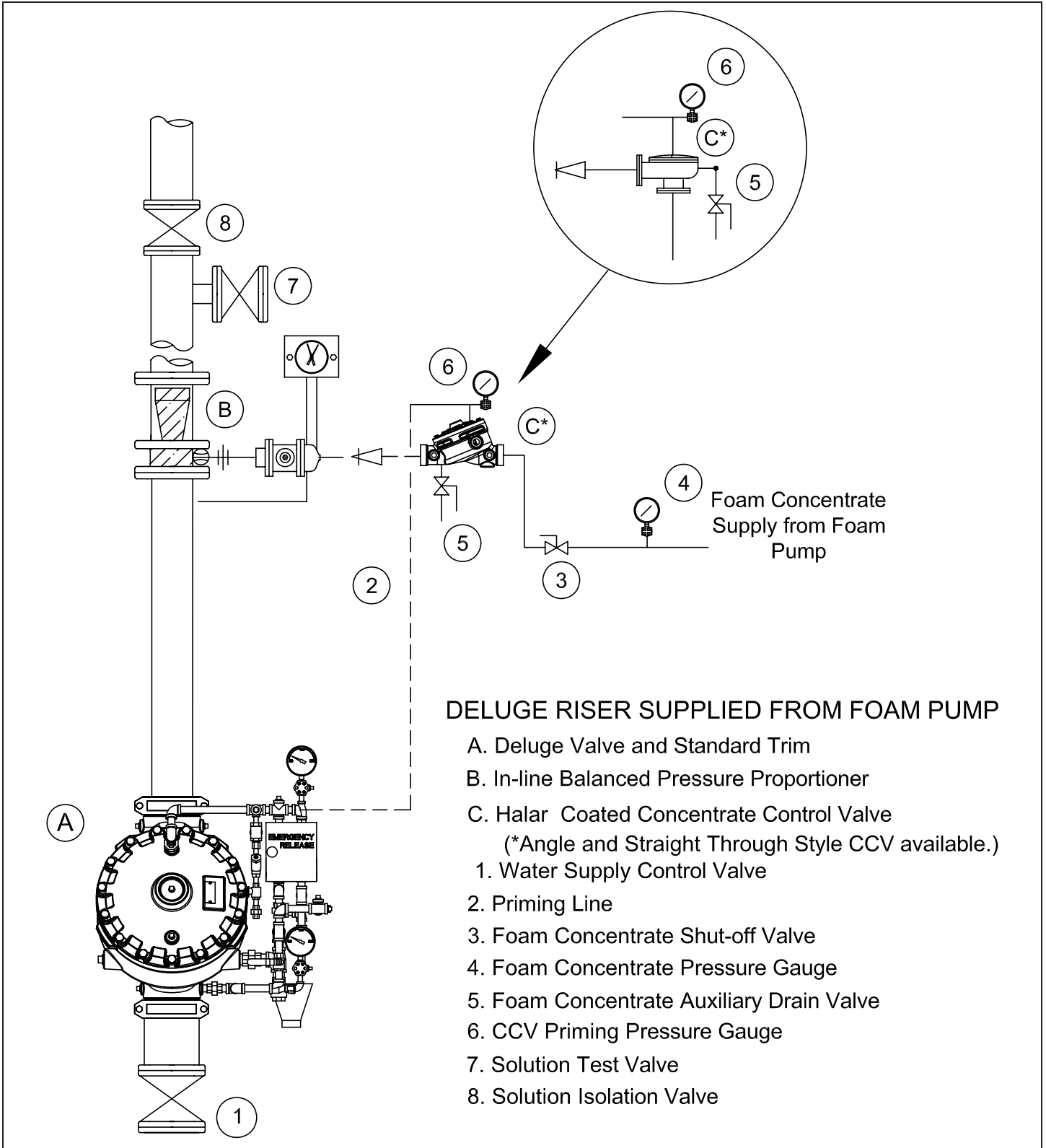


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**Figure 2**

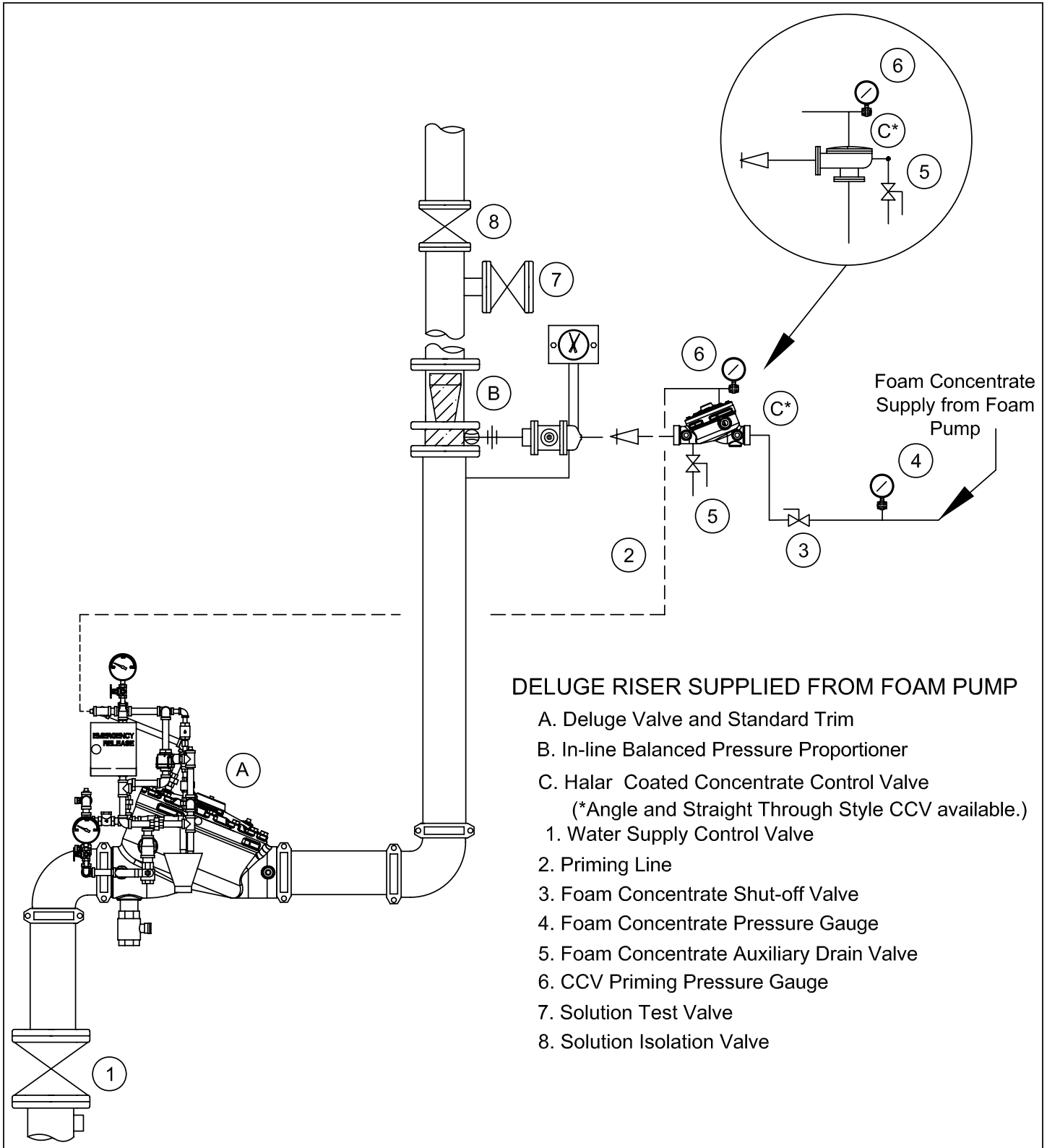
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**Figure 3**





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For complete Deluge Foam/Water System Supplied by Foam Pump, select Deluge Valve and Trim, Release Trim, Foam Concentrate Control Valve and Trim, Foam Concentrate and ILBP Assembly, Controller, and Accessories.

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
<b>DELUGE VALVES - ANGLE STYLE</b>				
Threaded	<b>Model &amp; Pipe O.D.</b>	<b>Painted Red</b>		
	Model E-3 48 mm	1½" / DN40	09889 <a href="#">209 a-h</a>	
	Model E-1 60 mm	2" / DN50	05852C <a href="#">210 a-h</a>	
	<b>Model &amp; Pipe O.D.</b>	<b>Halar Coated</b>		
	Model E-4 48 mm	1½" / DN40	09890Q/B <a href="#">212 a-j</a>	
	Model E-2 60 mm	2" / DN50	08361Q/B <a href="#">213 a-j</a>	
Flange/ Flange	<b>Flange Drilling</b>	<b>Model E-1</b>	<b>Painted Red</b>	
	ANSI	3"	05912C	
	ANSI	4"	05909C	
	ANSI	6"	05906C	
	ANSI/Japan	6"	07136	
	PN10/16	DN80	08626	
	PN10/16	DN100	08629	
	PN10/16	DN150	08631	
	<b>Flange Drilling</b>	<b>Model E-2</b>	<b>Halar Coated</b>	
	ANSI	3"	08362Q/B	
	ANSI	4"	08363Q/B	
	ANSI	6"	08364Q/B	
	PN10/16	DN80	08862Q/B	
	PN10/16	DN100	08863Q/B	
	PN10/16	DN150	08864Q/B	
	Flange/ Groove	<b>Flange Drilling / Pipe O.D.</b>	<b>Model E-1</b>	<b>Painted Red</b>
		ANSI / 89 mm	3"	05835C
		ANSI / 114 mm	4"	05839C
ANSI / 168 mm		6"	05456C	
PN10/16 / 89 mm		DN80	09539	
PN10/16 / 114 mm		DN100	09540	
PN10/16 / 168 mm		DN150	05456C	
<b>Flange Drilling / Pipe O.D.</b>		<b>Model E-2</b>	<b>Halar Coated</b>	
ANSI / 89 mm		3"	11064Q/B	
ANSI / 114 mm		4"	11065Q/B	
ANSI / 168 mm		6"	11001Q/B	
PN10/16 / 168 mm		DN150	11001Q/B	

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
<b>DELUGE VALVES - STRAIGHT THROUGH</b>				
Flange/ Flange	<b>Flange Drilling</b>	<b>Model F-1</b>	<b>Painted Red</b>	
	ANSI	3"	12014	
	ANSI	4"	11953	
	ANSI	6"	11955	
	ANSI	8"	11991	
	ANSI/Japan	6"	11964	
	PN10/16	DN80	12026	
	PN10/16	DN100	11965	
	PN10/16	DN150	11956	
	PN10	DN200	11995	
	PN16	DN200	11999	
	<b>Flange Drilling</b>	<b>Model F-2</b>	<b>Halar Coated</b>	
	ANSI	3"	12015Q/B	
	ANSI	4"	11960Q/B	
	ANSI	6"	11962Q/B	
	ANSI	8"	11992Q/B	
	PN10/16	DN80	12027Q/B	
	PN10/16	DN100	11966Q/B	
PN10/16	DN150	11963Q/B		
PN10	DN200	11996Q/B		
PN16	DN200	12000Q/B		
Flange/ Groove	<b>Flange Drilling / Pipe O.D.</b>	<b>Model F-1</b>	<b>Painted Red</b>	
	ANSI / 89 mm	3"	12018	
	ANSI / 114 mm	4"	11952	
	ANSI / 168 mm	6"	11954	
	PN10/16 / 89 mm	DN80	12030	
	PN10/16 / 114 mm	DN100	11958	
	PN10/16 / 165 mm	DN150	12640	
	PN10/16 / 168 mm	DN150	11954	
	<b>Flange Drilling / Pipe O.D.</b>	<b>Model F-2</b>	<b>Halar Coated</b>	
	ANSI / 89 mm	3"	12019Q/B	
	ANSI / 114 mm	4"	11959Q/B	
	ANSI / 168 mm	6"	11961Q/B	
	PN10/16 / 89 mm	DN80	12644Q/B	
	PN10/16 / 114 mm	DN100	12645Q/B	
	PN10/16 / 165 mm	DN150	12641Q/B	
	PN10/16 / 168 mm	DN150	11961Q/B	
	Groove/ Groove	<b>Pipe O.D.</b>	<b>Model F-1</b>	<b>Painted Red</b>
		48 mm	1½" / DN40	12125
60 mm		2" / DN50	12057	
73 mm		2½" / DN65	12403	
76 mm		DN80	12729	
89 mm		3" / DN80	12022	
114 mm		4" / DN100	11513	
165 mm		DN150	11910	
168 mm		6" / DN150	11524	
219 mm		8" / DN200	11018	
<b>Pipe O.D.</b>		<b>Model F-2</b>	<b>Halar Coated</b>	
48 mm		1½" / DN40	12127Q/B	
60 mm		2" / DN50	12058Q/B	
73 mm		2½" / DN65	12404Q/B	
76 mm		DN80	12730Q/B	
89 mm		3" / DN80	12023Q/B	
114 mm		4" / DN100	11514Q/B	
165 mm		DN150	11911Q/B	
168 mm	6" / DN150	11525Q/B		
219 mm	8" / DN200	11118Q/B		

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE
<b>DELUGE VALVES - STRAIGHT THROUGH</b>			
Threaded	<b>Pipe O.D.</b>	<b>Model F-1</b>	<b>Painted Red</b>
	NPT 48 mm	1½"	12126
	NPT 60 mm	2"	12059
	NPT 65 mm	2½"	12401
	BSP 48 mm	DN40	12682
	BSP 60 mm	DN50	12686
	<b>Pipe O.D.</b>	<b>Model F-2</b>	<b>Halar Coated</b>
	NPT 65 mm	2½"	12402Q/B

Table 1



	<h1 style="margin: 0;">TECHNICAL DATA</h1>	<h2 style="margin: 0;">DELUGE FOAM/WATER SYSTEM SUPPLIED BY FOAM PUMP</h2>
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DESCRIPTION	NOMINAL SIZE	PART NUMBER	PART NUMBER	DATA PAGE			
<b>DELUGE VALVE TRIM</b>							
<b>Use with Angle Style Valves</b>		<b>Galvanized</b>	<b>Brass</b>				
	1½" / DN40	14629-1	14629-2	<a href="#">225 a-c</a>			
	2" / DN50	14630-1	14630-2	<a href="#">226 a-c</a>			
	3" / DN80	14631-1	14631-2	<a href="#">227 a-c</a>			
	4" / DN100	14632-1	14632-2				
	6" / DN150	14633-1	14633-2				
<b>Use with Straight Through Valves</b>	Horizontal	1½" / DN40	14635-1	14635-2	<a href="#">235 a-c</a>		
		2" / DN50	14637-1	14637-2	<a href="#">239 e-g</a>		
		2½" / DN65					
		3" / DN80					
		4" / DN100	14638-1	14638-2	<a href="#">240 a-c</a>		
		6" / DN150	14640-1	14640-2	<a href="#">241 a-c</a>		
	8" / DN200	14643-1	14643-2	<a href="#">242 a-c</a>			
	Vertical	1½" / DN40	14634-1	14634-2	<a href="#">235 e-g</a>		
		2" / DN50					
		2½" / DN65	14636-1	14636-2	<a href="#">239 e-g</a>		
		3" / DN80					
		4" / DN100				14639-1	14639-2
6" / DN150		14641-1				14641-2	<a href="#">241 a-c</a>
8" / DN200	14643-1	14643-2	<a href="#">242 e-g</a>				


DESCRIPTION	MATERIAL	PART NUMBER	DATA PAGE
<b>RELEASE TRIM PACKAGES</b>			
<b>Use with Angle or Straight Through Valves</b>	<b>PNEUMATIC RELEASE</b>		
	Galvanized	10809	<a href="#">265 b</a>
	Brass	10811	
	<b>ELECTRIC RELEASE</b>		
	Galvanized	10830	<a href="#">265 a</a>
	Brass	10832	

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE
<b>TRIMPAC®</b>			
<b>Includes Conventional Trim, Release Trim, and Flexible Hose Kit</b>	<b>PNEUMATIC RELEASE</b>		
	Galvanized	13788B-2	<a href="#">245 a-t</a>
	Brass	13788B-2B	
	<b>ELECTRIC RELEASE</b>		
	Galvanized	137887B-1	<a href="#">244 a-s</a>
	Brass	13787B-1B	
<b>DRAIN PACKAGE</b>			
<b>Use with TrimPac (above)</b>	1½" / DN40	11894-1	Refer to Trimpac Data Page
	2" / DN50	11894-2	
	2½" / DN65	11894-3	
	3" / DN80	11894-3	
	4" / DN100	11894-4	
	6" / DN150	11894-4	
	8" / DN200	11894-4	

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
<b>FOAM CONCENTRATE CONTROL VALVE HALAR® COATED</b>				
<b>Angle Style</b>				
<b>Threaded NPT</b>	<u>Model &amp; Pipe O.D.</u>		<a href="#">61a-f</a>	
	Model E-4 48 mm	1½" / DN40		09890Q/B
	Model E-2 60 mm	2" / DN50		08361Q/B
<b>Straight Through</b>				
<b>Threaded NPT</b>	<u>Pipe O.D.</u>	Model F-2		
	NPT 65 mm	2½"		12402Q/B
<b>Groove/Groove</b>	<u>Pipe O.D.</u>	Model F-2		
	48 mm	1½" / DN40	12127Q/B	
	60 mm	2" / DN50	12058Q/B	
	73 mm	2½" / DN65	12404Q/B	

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE
<b>FOAM CONCENTRATE CONTROL VALVE TRIM</b>			
<b>Use with Angle Style Valve</b>	Galvanized		<a href="#">61a-f</a>
	1½" / DN40	08098	
	2" / DN50	08099	
	Brass		
	1½" / DN40	09694	
<b>Use with Straight Through Valves</b>	2" / DN50	09695	
	Galvanized		
	1½" / DN40	12848-1	
	2" / DN50	12848-1	
	2½" / DN65	12929-1	
	Brass		
	1½" / DN40	12848-2	
2" / DN50	12848-2		
	2½" / DN65	12929-2	

Table 2

	<h1 style="margin: 0;">TECHNICAL DATA</h1>	<h2 style="margin: 0;">DELUGE FOAM/WATER SYSTEM SUPPLIED BY FOAM PUMP</h2>
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The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058  
 Telephone: 269-945-9501 Technical Services: 877-384-5464 Fax: 269-818-1680 Email: techsvcs@vikingcorp.com

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE
<b>FOAM CONCENTRATE SWING CHECK VALVE</b>			
	1½" / DN40	99S-0150	-
	2" / DN50	99S-0200	-
	2½" / DN65	05497C	<a href="#">803 a-d</a>
<b>FOAM SOLUTION TEST VALVE</b>			
Grooved Butterfly Valve	2½" / DN65	01G-0250	-
	3" / DN80	01G-0300	
	4" / DN100	01G-0400	
	6" / DN150	01G-0600	
	8" / DN200	01G-0800	
<b>SYSTEM ISOLATION VALVE</b>			
Grooved Butterfly Valve	2½" / DN65	01G-0250	-
	3" / DN80	01G-0300	
	4" / DN100	01G-0400	
	6" / DN150	01G-0600	
	8" / DN200	01G-0800	
<b>WATER SUPPLY CONTROL VALVE</b>			
OS & Y	2½" / DN65	8068A-0250	-
	3" / DN80	8068A-0300	
	4" / DN100	8068A-0400	
	6" / DN150	8068A-0600	
	8" / DN200	8068A-0800	
<b>FOAM CONCENTRATE SHUT-OFF VALVE</b>			
Ball Valve	1½" / DN40	T595Y66-0150	-
	2" / DN50	T595Y66-0200	
<b>ACCESSORIES FOR FOAM/WATER SPRINKLER SYSTEMS</b>			
<b>MODEL D-1 PORV</b>	½" / DN15	13598	<a href="#">287 a-b</a>
<b>1/8" / 3 mm RESTRICTED ORIFICE</b>	½" / DN15	06555A	-
<b>SOFT SEAT CHECK VALVE</b>	½" / DN15	03945A	-
<b>Y STRAINER</b>	½" / DN15	01054A	-
<b>BALL VALVE</b>	½" / DN15	10355	-
<b>CONCENTRATE CONTROL VALVE PRIMING CONNECTION PKG.</b>			
Required to connect priming chamber		10985	-
<b>FOAM CONCENTRATE SHUT OFF VALVE</b>			
Ball Valve	1½" / DN40	WBV-0150	-
Ball Valve	2" / DN50	WBV-0200	
OS & Y	2½" / DN65	8068A-0250	
OS & Y	3" / DN80	8068A-0300	

FOAM CONCENTRATES AND ILBP ASSEMBLIES					
FOAM CONCENTRATE			ILBP ASSEMBLY		
DESCRIPTION	BASE PART NUMBER	FOAM CONCENTRATE DATA PAGE	NOMINAL SIZE	VIKING PART NUMBER	ILBP DATA PAGE
1% AFFF C103	F14969	<a href="#">100 a-b</a>	2½"	F15006/A	171 a-d
			3"	F15012/A	
			4"	F15018/A	
			6"	F15025/A	
3% AFFF C303	F14970	<a href="#">101 a-b</a>	2½"	F15006/B	
			3"	F15012/B	
			4"	F15018/B	
			6"	F15025/B	
3% AFFF MS C301 MS	F14971	<a href="#">102 a-b</a>	2½"	F15006/C	
			3"	F15012/C	
			4"	F15018/C	
			6"	F15025/C	
3% - 6% AFFF @ 3% C363	F14973	<a href="#">103 a-b</a>	2½"	F15006/D	
			3"	F15012/D	
			4"	F15018/D	
			6"	F15025/D	
3% - 6% AFFF @ 3% C363	F14973	<a href="#">103 a-b</a>	8"	F15032/D	
			2½"	F15006/E	
			3"	F15012/E	
			4"	F15018/E	
3% AR-AFFF CUG	F14972	<a href="#">104 a-b</a>	6"	F15025/E	
			8"	F15032/E	
			2½"	F15006/J	
			3"	F15012/J	
2% Hi Ex C2	F14974	<a href="#">105 a-b</a>	4"	F15018/J	
			6"	F15025/J	
			8"	F15032/J	
			2½"	F15006/H	
2% Hi Ex C2	F14974	<a href="#">105 a-b</a>	3"	F15012/H	
			4"	F15018/H	
			6"	F15025/H	
			8"	F15032/H	

**Table 3**