



TECHNICAL DATA

**MULTIPLE PILOT PRESSURE
REGULATING FOAM/WATER
DELUGE SYSTEMS SUPPLIED
BY A BLADDER TANK**

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

With Multiple Pilot Pressure Regulating Foam/Water Deluge Systems Supplied by a Bladder Tank, multiple pilot pressure regulating foam risers can be supplied from a single foam concentrate source. Where a bladder tank is used as the foam concentrate storage container and foam concentrate source, a manifold foam concentrate supply from the bladder tank to the individual risers is a cost-effective method of installing many foam risers without duplicating the foam concentrate supply for each different riser. The foam concentrate bladder tank will be sized by the most demanding system. It is important to remember that the most demanding system will also require taking into account that the duration requirement per system may differ as well.

Multiple pilot pressure regulating foam risers can be supplied by a single bladder tank when a concentrate manifold from the discharge head of the bladder tank is installed to each individual riser. The foam concentrate manifold will be sized for the most severe volume requirement and metered pressure drop requirement. At each riser location, a supply outlet will be provided from the concentrate manifold supply. The supply outlet will have a concentrate shut-off valve, a Halar[®] coated concentrate control valve, concentrate piping, a concentrate swing check valve, and an in-line balanced pressure proportioner (ILBP).

The individual pilot pressure regulating riser will have a water supply control valve, Viking flow control valve with pressure regulating deluge trim, riser piping, solution test valve and system isolation valve.

A manifold supply from a bladder tank to multiple pilot pressure regulating risers allows for individual proportioning at each riser, allowing for different size risers. A manifold supply from a bladder tank to multiple pilot pressure regulating risers also allows for individual system repair without completely losing foam protection for other areas.

2. LISTINGS AND APPROVALS

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

- Flow Control 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[®] 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
- Viking Bladder Tank ASME Sect. VIII Certified
UL Listed - Guide GHXV
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 Approved with Foam Concentrate and Fuel being protected.
- Non-Aspirating Spray Nozzles
- Manual Monitors or Oscillating Monitors
- Hose Reels and Hand Lines
- Foam Makers
- Foam Chambers
- Any open discharge device



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B. General Instructions and Warnings

1. Refer to 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 – The system must be inspected and tested in Accordance with NFPA 25. See Section 6 – Inspections, Tests, and Maintenance.
4. **Warning** – Any system maintenance or testing which 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.
5. The valve, trim, bladder tank, and appurtenances must be installed in an area not subject to freezing temperatures or physical damage.

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 30d and **Warnings and General Notes** on pages 2a-d in the foam data book.
2. Install the Flow control valve with pilot pressure regulating deluge trim in accordance with *The Viking Engineering and Design Data* book and Figures 1 and 2.
3. Install the Viking In-line balanced pressure proportioner (ILBP) (B) in the riser. (See Special Note A and B, Page 31d).
4. Install foam solution test valve (5) and system isolation valve (6). These test valves are required in accordance with NFPA 16, and NFPA 16A.
5. Install the Viking hydraulically actuated Halar[®] coated concentrate control valve (C) and associated trim as indicated in Figures 1 and 2, **trim charts or technical data pages**.
6. Install bladder tank in accordance with the manufacturer's instructions with connections as shown on Figures 1 and 2, and herein described.
 - a. Locate the tank as close as practical to the system riser.
 - b. Allow enough room around the tank to service the bladder.
 - c. Allow access to the tank for filling from barrels of foam concentrate.
 - d. Install the pipe from the riser to the tank as indicated on Figures 1 and 2. **The bladder tank water supply piping (16) must be connected above the pilot pressure regulating deluge valve (D).** Install the piping from the bladder tank to the Viking In-line balanced pressure proportioner (ILBP) (B) as straight as possible.
 - e. All valves and devices should be located for easy access for operation and maintenance.
7. All valves should be closed, including the water supply control valve (2), the PORV water supply valve, the tank water supply control valve, the ½" ball valve, the concentrate control shut-off valve (1), and the foam solution test valve (5).
8. Pressurize System:
 - a. Verify that the water supply control valve (2) is closed, close tank water supply control valve, then place the pilot pressure regulating deluge valve (D) in service. (See installation instructions on Viking Technical Data Sheet.) Open system isolation valve (6) if closed.
 - b. Set release and detection system according to installation instructions for a deluge (pneumatic or electric release) system.
 - c. Prime the pilot pressure regulating deluge valve (D) by opening the priming valve on the pressure regulating trim. Prime the Halar[®] coated concentrate control valve by opening the concentrate control priming valve. Bleed off any air pressure trapped in the priming line to the Viking Halar[®] coated concentrate control valve by opening the 3-way pressure gauge valve. Once air pressure has been relieved, close the 3-way valve to maintain pressure on gauge.
 - d. When pressure in the pilot pressure regulating deluge valve (D) and the concentrate control valve (C) priming chambers equal system water supply pressure, turn on system water supply by opening water supply valve (2), place alarm test shut-off valve in alarm position.
 - e. Place bladder tank in service by following manufacturers instructions, except to slowly open concentrate control shut-off valve to allow foam concentrate to flow slowly to the Viking Halar[®] coated concentrate control valve (D). With system set, fully open and secure water supply control valve.
 - f. Verify normal valve positions and secure in proper position.
 - g. Check for and repair any leaks.
9. Testing the foam concentrate swing check valve: After a flow test or proportioning test has been conducted, the foam concentrate swing check valve should be checked to insure that it maintains a positive seal between the Halar[®] coated concentrate control valve (C) and the pilot pressure regulating riser, by following the procedure outlined below.
 - a. Bleed off any pressure that may have been trapped between the outlet of the chamber of the Halar[®] coated concentrate



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control valve (C) and the foam concentrate swing check valve by placing a container under the foam concentrate auxiliary drain valve (7) and opening the valve slowly.

- b. Drain excess foam concentrate into container. Should the leakage continue, check the priming pressure gauge on the Halar[®] coated concentrate control valve (C) to ensure that the valve is primed and closed.
- c. If the foam concentrate auxiliary drain valve (7) continues to leak foam concentrate, then the concentrate control valve must be checked for proper operation and repaired if necessary.
- d. Should water continue to leak from the foam concentrate auxiliary drain valve (7), the foam concentrate check valve clapper rubber and seat should be maintained or repaired if necessary.

5. OPERATION

Actuation of the supplemental detection system (pneumatically or electrically) will release the priming water pressure in the flow control valve's priming chamber allowing the flow control valve to open, filling the pilot pressure regulating foam system with water. While water flows through the flow control valve, water will flow out a 1/2" (13 mm) port on the discharge side of the flow control valve and pressurize the sensing end of the pressure operated relief valve (PORV), which will release the prime pressure of the Halar[®] coated concentrate control valve (C) allowing it to open and supply foam concentrate to the in-line balanced pressure proportioner (ILBP) (B). Foam/water solution will be proportioned throughout the system (normally 1% or 3%).

The bladder tank will be pressurized by the water passing through the flow control valve, through the piping and supply inlet to the bladder tank. System water pressure in the space between the flexible bladder and the inside surface of the tank causes the bladder to collapse, forcing foam concentrate out through the foam concentrate supply piping, Halar[®] concentrate control valve, and to the in-line balanced pressure proportioner (ILBP). The low venturi of the in-line balanced pressure proportioner (ILBP) meters foam concentrate into the water stream passing by the in-line balanced pressure proportioner (ILBP). The listed minimum flow rate of the in-line balanced pressure proportioner (ILBP) must be achieved before accurate proportioning will occur. Refer to the in-line balanced pressure proportioner (ILBP) data pages in the "Proportioning Equipment" section of the *Viking Foam Systems Engineering and Design Data* book.

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 be 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 Multiple Pilot Pressure Regulating Foam/Water Deluge Systems Supplied by a Bladder Tank 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 in-line balanced pressure proportioner (ILBP) (B) to minimize the turbulence inside the ILBP. Warning! If the outlet to the foam solution test valve (5) is located closer than 5 pipe diameters there may be turbulence at high flow rates.
- B. The release of the Halar[®] coated concentrate control valve (C) and the flow control valve (A) must NOT be combined. The concentrate control valve must be primed and released separately of the pressure regulating deluge valve to ensure open position of the concentrate control valve clapper.
- C. Figures 1 and 2 are a 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.
- D. 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.
- E. A strainer is not required in the foam concentrate discharge piping of bladder tank systems per NFPA Standards.
- F. The foam concentrate control deluge valve (C) does not require any trim except for a 1/2" priming line, 1/2" auxiliary drain valve and gauge with 3-way valve. Plug all remaining valve trim outlets. Refer to the "Valves" section of this data book to find the correct trim kit part number for the corresponding size of foam Halar[®] coated concentrate control valve (C) required.



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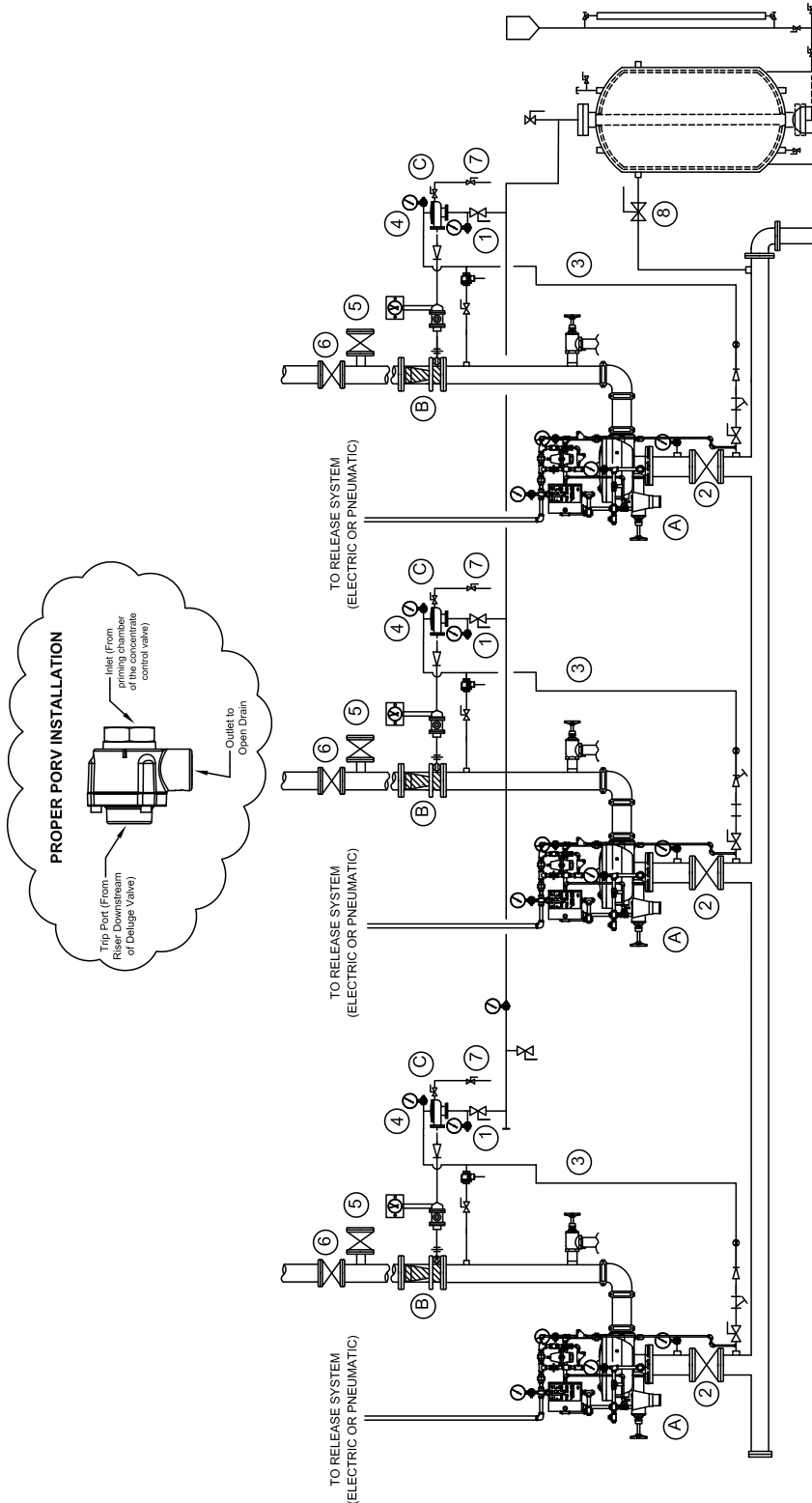


Figure 1

MULTIPLE PILOT PRESSURE REGULATING FOAM SYSTEMS SUPPLIED FROM BLADDER TANK

- A. Flow Control Valve and Pressure Regulating Trim
- B. In-line Balanced Pressure Proportioner
- C. Halar® Coated Concentrate Control Valve
(*Angle Style or Straight Through Style CCV available.)
- 1. Foam Concentrate Shut-off Valve
- 2. Water Supply Control Valve
- 3. Priming Line
- 4. CCV Priming Pressure Gauge
- 5. Solution Test Valve
- 6. System Isolation Valve
- 7. Concentrate Auxiliary Drain Valve
- 8. Bladder Tank Water Supply Control Valve
- 9. Concentrate Manifold Drain Valve
- 10. Foam Concentrate Pressure Gauge



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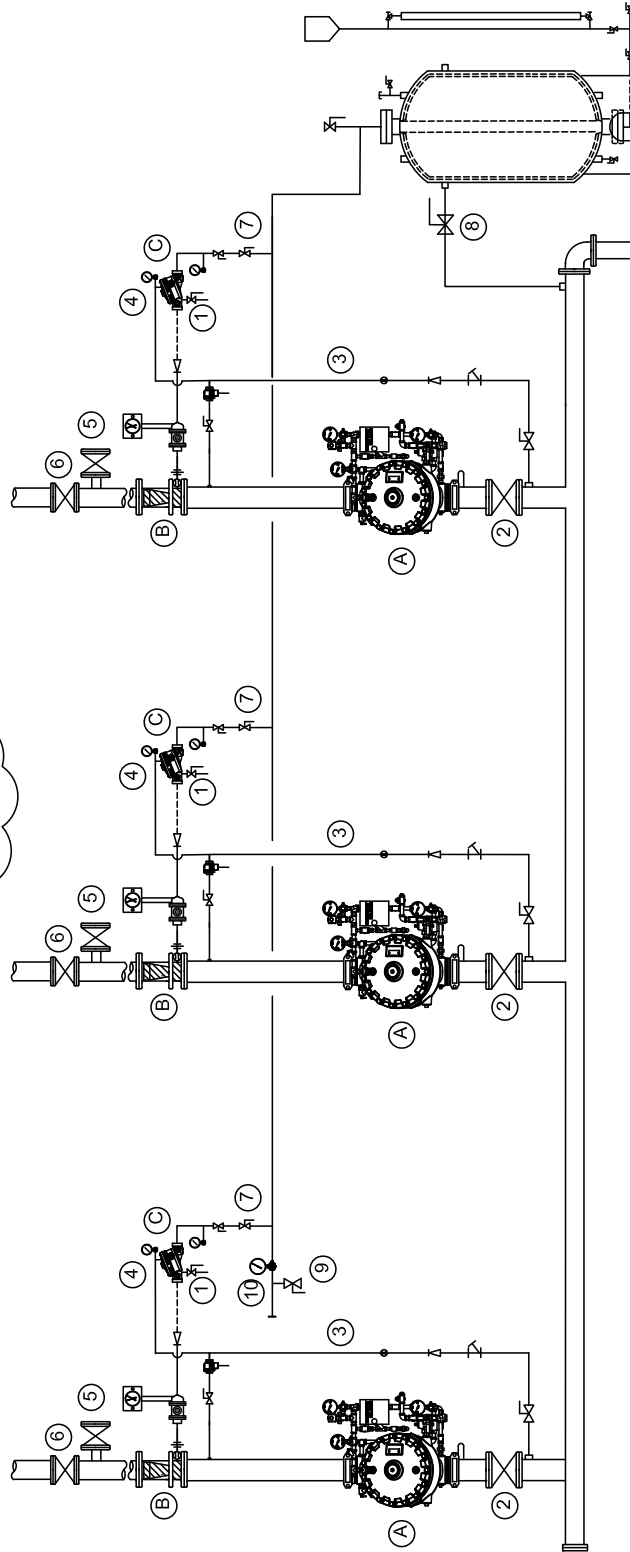
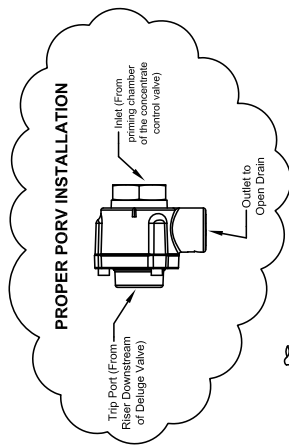


Figure 2

MULTIPLE PILOT PRESSURE REGULATING FOAM SYSTEMS SUPPLIED FROM BLADDER TANK

- A. Flow Control Valve and Pressure Regulating Trim
- B. In-line Balanced Pressure Proportioner
- C. Halar® Coated Concentrate Control Valve (*Angle Style or Straight Through Style CCV available.)
- 1. Foam Concentrate Shut-off Valve
- 2. Water Supply Control Valve
- 3. Priming Line
- 4. CCV Priming Pressure Gauge
- 5. Solution Test Valve
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For complete Pilot Pressure Regulating Foam/Water Deluge System Supplied by a Bladder Tank, select Flow Control Valve, Pressure Regulating Trim, Release Trim, Foam Concentrate Control Valve and Trim, Foam Concentrate and ILBP, Bladder Tank and Accessories.

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
FLOW CONTROL VALVES - ANGLE STYLE				
Threaded	Model & Pipe O.D.	Painted Red		
	Model H-3 48 mm	1½" / DN40	09894 500 a-h	
	Model H-1 60 mm	2" / DN50	05856C 501 a-h	
	Model & Pipe O.D.	Halar® Coated		
	Model H-4 48 mm	1½" / DN40	09895Q/B 503 a-j	
	Model H-2 60 mm	2" / DN50	08365Q/B 504 a-k	
Flange/ Flange	Flange Drilling	Model H-1	Painted Red	
	ANSI	3"	05914C	
	ANSI	4"	05911C	
	ANSI	6"	05908C	
	ANSI/Japan	4"	09037	
	ANSI/Japan	6"	09386	
	PN10/16	DN80	08627	
	PN10/16	DN100	08630	
	PN10/16	DN150	08632	
	Flange Drilling	Model H-2	Halar® Coated	
	ANSI	3"	08366Q/B	
	ANSI	4"	08367Q/B	
	ANSI	6"	08368Q/B	
	PN10/16	DN80	08873Q/B	
	PN10/16	DN100	08874Q/B	
PN10/16	DN150	08875Q/B		
Flange/ Groove	Flange Drilling / Pipe O.D.	Model H-1	Painted Red	
	ANSI / 89 mm	3"	05837C	
	ANSI / 114 mm	4"	05841C	
	ANSI / 168 mm	6"	05458C	
	PN10/16 / 89 mm	DN80	11658	
	PN10/16 / 114 mm	DN100	11811	
	PN10/16 / 168 mm	DN150	05458C	
	Flange Drilling / Pipe O.D.	Model H-2	Halar® Coated	
	ANSI / 89 mm	3"	11207Q/B	
	ANSI / 114 mm	4"	11208Q/B	
	ANSI / 168 mm	6"	11209Q/B	
	PN10/16 / 168 mm	DN150	11209Q/B	

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
FLOW CONTROL VALVES - STRAIGHT THROUGH				
Flange/ Flange	Flange Drilling	Model J-1	Painted Red	
	ANSI	3"	12016	
	ANSI	4"	11968	
	ANSI	6"	11970	
	ANSI	8"	11993	
	ANSI/Japan	4"	11975	
	ANSI/Japan	6"	11981	
	PN10/16	DN80	12028	
	PN10/16	DN100	11973	
	PN10/16	DN150	11971	
	PN10	DN200	11997	
	PN16	DN200	12001	
	Flange Drilling	Model J-2	Halar® Coated	
	ANSI	3"	12017Q/B	
	ANSI	4"	11977Q/B	
ANSI	6"	11979Q/B		
ANSI	8"	11994Q/B		
PN10/16	DN80	12029Q/B		
PN10/16	DN100	11982Q/B		
PN10/16	DN150	11980Q/B		
PN10	DN200	11998Q/B		
PN16	DN200	12002Q/B		
Flange/ Groove	Flange Drilling / Pipe O.D.	Model J-1	Painted Red	
	ANSI / 89 mm	3"	12020	
	ANSI / 114 mm	4"	11967	
	ANSI / 168 mm	6"	11969	
	PN10/16 / 89 mm	DN80	12031	
	PN10/16 / 114 mm	DN100	11974	
	PN10/16 / 165 mm	DN150	12642	
	PN10/16 / 168 mm	DN150	11969	
	Flange Drilling / Pipe O.D.	Model J-2	Halar® Coated	
	ANSI / 89 mm	3"	12021Q/B	
	ANSI / 114 mm	4"	11976Q/B	
	ANSI / 168 mm	6"	11978Q/B	
PN10/16 / 89 mm	DN80	12646Q/B		
PN10/16 / 114 mm	DN100	12647Q/B		
PN10/16 / 165 mm	DN150	12643Q/B		
PN10/16 / 168 mm	DN150	11978Q/B		
Groove/ Groove	Pipe O.D.	Model J-1	Painted Red	
	48 mm	1½" / DN40	12129	
	60 mm	2" / DN50	12061	
	73 mm	2½" / DN65	12407	
	76 mm	DN80	12731	
	89 mm	3" / DN80	12024	
	114 mm	4" / DN100	11516	
	165 mm	DN150	11912	
	168 mm	6" / DN150	11527	
	219 mm	8" / DN200	11019	
	Pipe O.D.	Model J-2	Halar® Coated	
	48 mm	1½" / DN40	12131Q/B	
	60 mm	2" / DN50	12062Q/B	
	73 mm	2½" / DN65	12408Q/B	
	76 mm	DN80	12732Q/B	
	89 mm	3" / DN80	12025Q/B	
	114 mm	4" / DN100	11517Q/B	
	165 mm	DN150	11913Q/B	
168 mm	6" / DN150	11528Q/B		
219 mm	8" / DN200	11119Q/B		

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
FLOW CONTROL VALVES - STRAIGHT THROUGH				
Threaded	Pipe O.D.	Model J-1	Painted Red	
	NPT 48 mm	1½"	12130	
	NPT 60 mm	2"	12063	
	NPT 65 mm	2½"	12405	
	BSP 48 mm	DN40	12684	
	BSP 60 mm	DN50	12688	
	Pipe O.D.	Model J-2	Halar® Coated	
	NPT 65 mm	2½"	12406Q/B	

Table 1



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DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
FLOW CONTROL PRESSURE REGULATING TRIM FOR ANGLE STYLE VALVES				
		Galvanized	Brass	
Includes both conventional flow control trim and pilot regulator trim, as well as speed control assembly and pilot pressure regulating valve.	2" / DN50	14764-1	14764-2	543 a-c
	3" / DN80	14765-1	14765-2	543 d-f
	4" / DN100	14766-1	14766-2	543 g-i
	6" / DN150	14767-1	14767-2	543 j-l
FLOW CONTROL PRESSURE REGULATING TRIM FOR STRAIGHT THROUGH VALVES				
		Galvanized	Brass	
Includes both conventional flow control trim and pilot regulator trim, as well as speed control assembly and pilot pressure regulating valve.	1½" / DN40	14768-1	14768-2	544 a-c
	2" / DN50	14768-1	14768-2	544 a-c
	2½" / DN65	14769-1	14769-2	544 d-f
	3" / DN80	14769-1	14769-2	544 d-f
	4" / DN100	14770-1	14770-2	544 g-i
	6" / DN150	14771-1	14771-2	544 j-l
	8" / DN200	14772-1	14772-2	544 m-o

DESCRIPTION	PART NUMBER	DATA PAGE		
RELEASE TRIM PACKAGES				
Use with Angle or Straight Through Valves	Galvanized	Brass		
	Pneumatic Release	10809	10811	265 b
	Electric Release	10830	10832	265 a

DESCRIPTION	TANK SIZE	PART NUMBER	DATA PAGE
HORIZONTAL BLADDER TANK	50 - 4500 Gallon	CHBT2-xxxx *	240 a-h
VERTICAL BLADDER TANK	25 - 4500 Gallon	CVBT2-xxxx *	

* Where xxxx is the tank size

DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE	
FOAM CONCENTRATE CONTROL VALVE HALAR® COATED				
Angle Style				
Threaded NPT	Model & Pipe O.D.		61a-f	
	Model E-4 48 mm	1½" / DN40		09890Q/B
	Model E-2 60 mm	2" / DN50		08361Q/B
Straight Through				
Threaded NPT	Pipe O.D.	Model F-2		
	NPT 65 mm	2½"		12402Q/B
Groove/Groove	Pipe O.D.	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
FOAM CONCENTRATE CONTROL VALVE TRIM			
Use with Angle Style Valve	Galvanized		61a-f
	1½" / DN40	08098	
	2" / DN50	08099	
	Brass		
	1½" / DN40	09694	
2" / DN50	09695		
Use with Straight Through Valves	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



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DESCRIPTION	NOMINAL SIZE	PART NUMBER	DATA PAGE
FOAM CONCENTRATE SWING CHECK VALVE			
	1½" / DN40	99S-0150	-
	2" / DN50	99S-0200	-
	2½" / DN65	05497C	803 a-d
FOAM SOLUTION TEST VALVE			
Grooved Butterfly Valve	2½" / DN65	01G-0250	-
	3" / DN80	01G-0300	
	4" / DN100	01G-0400	
	6" / DN150	01G-0600	
	8" / DN200	01G-0800	
SYSTEM ISOLATION VALVE			
Grooved Butterfly Valve	2½" / DN65	01G-0250	-
	3" / DN80	01G-0300	
	4" / DN100	01G-0400	
	6" / DN150	01G-0600	
	8" / DN200	01G-0800	
WATER SUPPLY CONTROL VALVE			
OS & Y	2½" / DN65	8068A-0250	-
	3" / DN80	8068A-0300	
	4" / DN100	8068A-0400	
	6" / DN150	8068A-0600	
	8" / DN200	8068A-0800	
FOAM CONCENTRATE SHUT-OFF VALVE			
Ball Valve	1½" / DN40	T595Y66-0150	-
	2" / DN50	T595Y66-0200	
ACCESSORIES FOR FOAM/WATER SPRINKLER SYSTEMS			
MODEL D-1 PORV	½" / DN15	13598	287 a-b
1/8" / 3 mm RESTRICTED ORIFICE	½" / DN15	06555A	-
SOFT SEAT CHECK VALVE	½" / DN15	03945A	-
Y STRAINER	½" / DN15	01054A	-
BALL VALVE	½" / DN15	10355	-
CONCENTRATE CONTROL VALVE PRIMING CONNECTION PKG.			
Required to connect priming chamber		10985	-
BLADDER TANK WATER SUPPLY CONTROL VALVE			
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	100 a-b	2½"	F15006/A	171 a-d
			3"	F15012/A	
			4"	F15018/A	
			6"	F15025/A	
3% AFFF C303	F14970	101 a-b	8"	F15032/A	
			2½"	F15006/B	
			3"	F15012/B	
			4"	F15018/B	
3% AFFF MS C303	F14970	101 a-b	6"	F15025/B	
			8"	F15032/B	
			2½"	F15006/C	
			3"	F15012/C	
3% AFFF MS C301 MS	F14971	102 a-b	4"	F15018/C	
			6"	F15025/C	
			8"	F15032/C	
			2½"	F15006/D	
3% - 6% AFFF @ 3% C363	F14973	103 a-b	3"	F15012/D	
			4"	F15018/D	
			6"	F15025/D	
			8"	F15032/D	
3% - 6% AFFF @ 3% C363	F14973	103 a-b	2½"	F15006/E	
			3"	F15012/E	
			4"	F15018/E	
			6"	F15025/E	
3% AR-AFFF CUG	F14972	104 a-b	8"	F15032/E	
			2½"	F15006/J	
			3"	F15012/J	
			4"	F15018/J	
2% Hi Ex C2	F14974	105 a-b	6"	F15025/J	
			8"	F15032/J	
			2½"	F15006/H	
			3"	F15012/H	
			4"	F15018/H	
			6"	F15025/H	
			8"	F15032/H	

Table 3

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