



## GFGV.EX4111 Foam Liquid Concentrates

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### Foam Liquid Concentrates

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#### CHEMGUARD

EX4111

204 S 6TH AVE  
MANSFIELD, TX 76063 USA

CHEMGUARD 1 percent AFFF C-103, nominal 1 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

CHEMGUARD 3 percent AFFF C-301MS, nominal 3 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

CHEMGUARD 3 percent AFFF C-302, nominal 3 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

CHEMGUARD 3 percent AFFF C-303, nominal 3 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

CHEMGUARD 6 percent AFFF C-601MS, nominal 6 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

CHEMGUARD 6 percent AFFF C-603, nominal 6 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

ULTRAGUARD 1 percent-3 percent AR-AFFF CUG13, nominal 1 or 3 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 1 percent. Polar solvent fuels at 3 percent.

CHEMGUARD 3 percent AR-AFFF C-333, nominal 3 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent. Polar solvent fuels at 3 percent.

CHEMGUARD AR 3 percent-6 percent AFFF, nominal 3 or 6 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent. Polar solvent fuels at 6 percent.

CHEMGUARD 3 percent-6 percent AR-AFFF C-361, nominal 3 or 6 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent. Polar solvent fuels at 6 percent.

ULTRAGUARD 3 percent AR-AFFF CUG, nominal 3 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent except as specifically indicated at 1 percent. Polar solvent fuels at 3 percent.

CHEMGUARD 3 percent AFFF C3LT, nominal 3 percent Aqueous Film Forming Foam, -20 F min storage and use temperature. Hydrocarbon fuels only.

CHEMGUARD 3 percent-6 percent AR-AFFF C-363, nominal 3 or 6 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent. Polar solvent fuels at 6 percent.

CHEMGUARD 3 percent AR-AFFF C33LT, nominal 3 Alcohol Resistant Aqueous Film Forming Foam, +0 F min storage and use temperature. Hydrocarbon fuels at 3 percent. Polar solvent fuels at 3 percent.

ECOGUARD 3 percent Synthetic E3, nominal Synthetic Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent.

ECOGUARD 3 percent AR Synthetic E3AR, nominal Synthetic Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent. Polar solvent fuels at 3 percent.

ECOGUARD 3 percent F3, Synthetic E3F3, nominal Synthetic Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 3 percent.

ULTRAGUARD 1 percent-3 percent AR-AFFF C-134, nominal 1 or 3 percent Alcohol Resistant Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels at 1 percent. Polar solvent fuels at 3 percent.

Chemguard 3% Fluoroprotein, C3FP, nominal 3 percent, +35 F minimum storage and use temperature. Hydrocarbon fuels only.

Chemguard 6% Fluoroprotein, C6FP, nominal 6 percent, +35 F minimum storage and use temperature. Hydrocarbon fuels only.

**Foam concentrates for use with the following equipment:**

**CHEMGUARD 1 PERCENT AFFF C-103, 1 PERCENT**

PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

National, Model HLP-9M, 1-1/2 in. size, set at 1, inlet pressure of 175 psi with 50 ft of 1-1/2 in. hose between inductor and National Model JS-10 nozzle.

PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 3                   | 0.196            | 140-806  |
| Chemguard Inc. | 4                   | 0.265            | 299-1615 |
| Chemguard Inc. | 6                   | 0.385            | 203-2775 |

NOZZLES

| Description              | Size In. | Inlet Pressure psi |
|--------------------------|----------|--------------------|
| National,<br>Model JS-10 | 1-1/2    | 73                 |

SPRINKLERS

| Fuel                                                                         | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|------------------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Grinnell Fire Protection Systems Co., Model F950, Standard Orifice (1/2 in.) |         |                                  |                        |
| Hydrocarbons                                                                 | Pendent | 0.16                             | 7.0                    |
| Reliable Automatic Sprinkler Co. Inc., Model G, Standard Orifice (1/2 in.)   |         |                                  |                        |
| Hydrocarbons                                                                 | Pendent | 0.16                             | 7.0                    |

**CHEMGUARD 3 PERCENT AFFF C-301MS, 3 PERCENT**

PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90, 1-1/2 in. size, set at 3, 50 ft (15.2 m) of 1-1/2 in. (38.1 mm) hose between the inductor and National Foam Inc., Model JS-10 nozzle.

PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 2-1/2               | 0.252            | 40-400   |
| Chemguard Inc. | 3                   | 0.365            | 70-752   |
| Chemguard Inc. | 4                   | 0.485            | 200-1615 |
|                |                     |                  |          |

|                |   |       |          |
|----------------|---|-------|----------|
| Chemguard Inc. | 6 | 0.700 | 299-3166 |
| Chemguard Inc. | 8 | 0.975 | 498-4269 |

## NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 75                 |

## FOAM MONITORS

| Description                 | Nozzle  | Nozzle Inlet Pressure psi |
|-----------------------------|---------|---------------------------|
| Chemguard Inc., Model CWPOM | CMNB350 | 40-150                    |
| Chemguard Inc., Model CWPOM | CMNB500 | 40-115                    |
| Chemguard Inc., Model CWPOM | CMNB750 | 40-70                     |

## FIXED FOAM DISCHARGE OUTLETS

| Description                  | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|------------------|--------------------|
| Chemguard Inc., Model FC 2.5 | 0.697-0.937      | 40-100             |
| Chemguard Inc., Model FC 3.0 | 0.937-1.252      | 40-100             |
| Chemguard Inc., Model FC 4.0 | 1.255-1.848      | 40-100             |
| Chemguard Inc., Model FC 6.0 | 1.836-2.400      | 40-100             |

## SPRINKLERS

| Fuel                                                                         | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|------------------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Central Sprinkler Corp., Model GB, Standard Orifice (1/2 in.)                |         |                                  |                        |
| Hydrocarbons                                                                 | Pendent | 0.16                             | 7.0                    |
| Globe Fire Sprinkler Corp., Model JN, Small Orifice (3/8 in.)                |         |                                  |                        |
| Hydrocarbons                                                                 | Upright | 0.16                             | 30.0                   |
| Globe Fire Sprinkler Corp., Model JN, Standard Orifice (1/2 in.)             |         |                                  |                        |
| Hydrocarbons                                                                 | Pendent | 0.16                             | 7.0                    |
| Grinnell Fire Protection Systems Co., Model F950, Standard Orifice (1/2 in.) |         |                                  |                        |
| Hydrocarbons                                                                 | Upright | 0.16                             | 7.0                    |

## CHEMGUARD 3 PERCENT AFFC C-302, 3 PERCENT

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90, 1-1/2 in. size, set at 3, 50 ft (15.2 m) of 1-1/2 in. (38.1 mm) hose between the inductor and National Foam Inc., Model JS-10 nozzle.

## PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 2-1/2               | 0.252            | 43-400   |
| Chemguard Inc. | 3                   | 0.365            | 70-752   |
| Chemguard Inc. | 4                   | 0.485            | 200-1610 |

|                |   |       |          |
|----------------|---|-------|----------|
| Chemguard Inc. | 6 | 0.700 | 308-3019 |
| Chemguard Inc. | 8 | 0.975 | 499-4401 |

## PROPORTIONERS-BALANCED PRESSURE VALVES WITH CONTROLLERS

| Description                                     | Controller Size In. | Orifice Size In. | Flow GPM |
|-------------------------------------------------|---------------------|------------------|----------|
| Model CILB2.5 with<br>1-1/2 in. balancing valve | 2-1/2               | 0.250            | 130-400  |
| Model CILBP3 with<br>1-1/2 in. balancing valve  | 3                   | 0.390            | 140-806  |
| Model CILBP4 with<br>1-1/2 in. balancing valve  | 4                   | 0.495            | 299-1615 |
| Model CILBP6 with<br>2-1/2 in. balancing valve  | 6                   | 0.690            | 397-3090 |
| Model CILBP8 with<br>2-1/2 in. balancing valve  | 8                   | 0.965            | 792-4050 |

## PROPORTIONERS-VARIABLE ORIFICE CONTROLLERS

| Description                              | Size In. | Flow GPM |
|------------------------------------------|----------|----------|
| Model Ultra-Wide Proportioner (CPP2500 ) | 6        | 20-2500  |

## NOZZLES

| Description                      | Size In. | Inlet Pressure psi |
|----------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10  | 1-1/2    | 75                 |
| Elkhart Brass Mfg., Model HF-500 | 2-1/2    | 100                |

## CHEMGUARD 3 PERCENT AFFF C-302

## SPRINKLERS

| Fuel                                                                         | Style            | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|------------------------------------------------------------------------------|------------------|----------------------------------|------------------------|
| Central Sprinkler Corp., Model GB, Standard Orifice (1/2 in.)                |                  |                                  |                        |
| Hydrocarbons                                                                 | Pendent          | 0.16                             | 7.0                    |
| Globe Fire Sprinkler Corp., Model JN, Small Orifice (3/8 in.)                |                  |                                  |                        |
| Hydrocarbons                                                                 | Upright          | 0.16                             | 30.0                   |
| Globe Fire Sprinkler Corp., Model JN, Standard Orifice (1/2 in.)             |                  |                                  |                        |
| Hydrocarbons                                                                 | Upright, Pendent | 0.16                             | 7.0                    |
| Grinnell Fire Protection Systems Co., Model F950, Standard Orifice (1/2 in.) |                  |                                  |                        |
| Hydrocarbons                                                                 | Pendent          | 0.16                             | 7.0                    |
| Reliable Automatic Sprinkler Co. Inc, Model G, Standard Orifice (1/2 in.)    |                  |                                  |                        |
| Hydrocarbons                                                                 | Upright, Pendent | 0.16                             | 7.0                    |
| Star Sprinkler Corp., Model SG, Standard Orifice (1/2 in.)                   |                  |                                  |                        |
| Hydrocarbons                                                                 | Upright          | 0.16                             | 7.0                    |
| Star Sprinkler Corp., Model LD2, Standard Orifice (1/2 in.)                  |                  |                                  |                        |
| Hydrocarbons                                                                 | Pendent          | 0.16                             | 7.0                    |

## FIXED FOAM SPRAY NOZZLES

| Fuel                                           | Discharge Angle Deg | Discharge Coefficient | Min Application Rate, gpm / sq ft | Min Inlet Pressure psi |
|------------------------------------------------|---------------------|-----------------------|-----------------------------------|------------------------|
| Globe, Model JN, 1/2 in.                       |                     |                       |                                   |                        |
| Hydrocarbons                                   | 180                 | 5.6                   | 0.16                              | 7                      |
| Globe, Model JN, 3/8 in.                       |                     |                       |                                   |                        |
| Hydrocarbons                                   | 180                 | 2.8                   | 0.16                              | 30                     |
| R.A. Anderson & Co., Model Enveloper, 1/2 in.  |                     |                       |                                   |                        |
| Hydrocarbons                                   | 180                 | 5.7                   | 0.24                              | 7                      |
| R.A. Anderson & Co., Model Enveloper, 5/16 in. |                     |                       |                                   |                        |
| Hydrocarbons                                   | 180                 | 1.8                   | 0.16                              | 30                     |
| Wei Ho, Model A, 3/8 in.                       |                     |                       |                                   |                        |
| Hydrocarbons                                   | 180                 | 2.8                   | 0.16                              | 29                     |

## CHEMGUARD 3 PERCENT AFFF C-303, 3 PERCENT

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

National Foam Inc., Model HLP-9M, 1-1/2 in. size, set at 3, inlet pressure of 180 psi with 50 ft of 1-1/2 in. hose between inductor and National Model JS-10 nozzle.

## PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 2-1/2               | 0.252            | 43-400   |
| Chemguard Inc. | 3                   | 0.365            | 70-752   |
| Chemguard Inc. | 4                   | 0.485            | 200-1610 |
| Chemguard Inc. | 6                   | 0.700            | 308-3019 |
| Chemguard Inc. | 8                   | 0.975            | 499-4401 |

## NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 80                 |

## SPRINKLERS

| Fuel                                                                  | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|-----------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Reliable Automatic Sprinkler Co., Model G, Standard Orifice (1/2 in.) |         |                                  |                        |
| Hydrocarbons                                                          | Pendent | 0.16                             | 7.0                    |
| Victaulic Co., SIN V3401, K-Factor 8.0                                |         |                                  |                        |
| Hydrocarbons                                                          | Upright | 0.22                             | 7.0                    |

## CHEMGUARD 6 PERCENT AFFF C-603, 6 PERCENT

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

National, Model HLP-9M, 1-1/2 in. size, set at 6, inlet pressure of 190 psi with 50 ft of 1-1/2 in. hose between inductor and National, Model JS-10

nozzle.

#### NOZZLES

| Description           | Size In. | Inlet Pressure psi |
|-----------------------|----------|--------------------|
| National, Model JS-10 | 1-1/2    | 76                 |

#### ULTRAGUARD 1 PERCENT / 3 PERCENT AR-AFFF CUG13, 1 PERCENT

#### PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Viking Model FE-90, Part No. F09183, 1-1/2 in. size, with 50 ft. (15.2 m) or 1-1/2 in. (38.1 mm) hose between the inductor and National Foam, Model JS-10 nozzle.

#### NOZZLES

| Description                    | Size In. | Inlet Pressure psi |
|--------------------------------|----------|--------------------|
| National Foam In., Model JS-10 | 1-1/2    | 78                 |

#### ULTRAGUARD 1 PERCENT / 3 PERCENT AR-AFFF CUG13, 3 PERCENT

#### PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 3                   | 0.398            | 290      |

#### FIXED FOAM DISCHARGE OUTLETS

| Description                  | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|------------------|--------------------|
| Chemguard Inc., Model FC 3.0 | 1.252            | 100                |

Where:

| Fuel           | Min Application Rate GPM / Sq Ft |
|----------------|----------------------------------|
| Alc (Alcohols) | 0.13                             |

#### CHEMGUARD 3 PERCENT AR-AFFF C33LT, 3 PERCENT

#### PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Viking Model FE-90, Part. No. F09183, 1-1/2 in. size, with 50 ft (15.2 m) or 1-1/2 in. (38.1 mm) hose between inductor and National Foam Model JS-10 nozzle.

| Description         | Size In. | Inlet Pressure psi |
|---------------------|----------|--------------------|
| National Foam Inc., | 1-1/2    | 78                 |
| Model JS-10         |          |                    |

#### CHEMGUARD 6 PERCENT AFFF C-601MS, 6 PERCENT

#### PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

National Foam Inc., Model HLP-9M-200, 1-1/2 in. size, set at 6, 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

#### NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 64                 |

#### CHEMGUARD 3 PERCENT AR-AFFF C-333, 3 PERCENT

#### PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90, 1-1/2 in. size, P/N 09511, 1-1/2 in. size with 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

#### PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 3                   | 0.398            | 292      |

#### NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 66                 |

#### FIXED FOAM DISCHARGE OUTLETS

| Description                  | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|------------------|--------------------|
| Chemguard Inc., Model FC 3.0 | 1.252            | 100                |

Where:

| Fuel           | Min Application Rate GPM/Sq Ft |
|----------------|--------------------------------|
| Alc (Alcohols) | 0.16                           |

#### CHEMGUARD AR 3 PERCENT-6 PERCENT AFFF, 3 PERCENT

#### PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

National Foam Inc., Model HLP-9M-200, 1-1/2 in. size, set at 3, 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10(NH) nozzle.

#### PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 2-1/2               | 0.252            | 306-402  |
| Chemguard Inc. | 2-1/2               | 0.277            | 145-200  |
| Chemguard Inc. | 3                   | 0.365            | 400-806  |
| Chemguard Inc. | 3                   | 0.398            | 244-400  |
|                |                     |                  |          |

|                |   |       |           |
|----------------|---|-------|-----------|
| Chemguard Inc. | 4 | 0.485 | 606-1506  |
| Chemguard Inc. | 4 | 0.502 | 400-508   |
| Chemguard Inc. | 6 | 0.700 | 1412-3093 |
| Chemguard Inc. | 6 | 0.755 | 634-1412  |
| Chemguard Inc. | 8 | 0.975 | 2000-4596 |
| Chemguard Inc. | 8 | 1.052 | 1506-2000 |

## NOZZLES

| Description                         | Size In. | Inlet Pressure psi |
|-------------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10(NH) | 1-1/2    | 100                |

## SPRINKLERS

| Fuel                                                                       | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|----------------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Reliable Automatic Sprinkler Co. Inc., Model G, Standard Orifice (1/2 in.) |         |                                  |                        |
| Hydrocarbons                                                               | Pendent | 0.16                             | 7                      |

## CHEMGUARD AR 3 PERCENT-6 PERCENT AFFF, 6 PERCENT

## PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM  |
|----------------|---------------------|------------------|-----------|
| Chemguard Inc. | 2-1/2               | 0.355            | 145-306   |
| Chemguard Inc. | 3                   | 0.515            | 306-806   |
| Chemguard Inc. | 4                   | 0.685            | 640-1615  |
| Chemguard Inc. | 6                   | 1.075            | 905-1615  |
| Chemguard Inc. | 8                   | 1.837            | 2614-4478 |

## SPRINKLERS

| Fuel                                                                       | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|----------------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Reliable Automatic Sprinkler Co. Inc., Model G, Standard Orifice (1/2 in.) |         |                                  |                        |
| Alcohols                                                                   | Pendent | 0.30                             | 26.5                   |
| Grinnell Corp, Model 950, Standard Orifice (1/2 in.)                       |         |                                  |                        |
| Alcohols                                                                   | Pendent | 0.26                             | 18.5                   |

## CHEMGUARD 3 PERCENT-6 PERCENT AR-AFFF C-361, 3 PERCENT

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90, 1-1/2 in. size, set at 3, 50 ft (15.2 m) of 1-1/2 in. (38.1 mm) hose between the inductor and National Foam Inc., Model JS-10 nozzle.

## PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|



| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 2-1/2               | 0.252            | 144-402  |
| Chemguard Inc. | 3                   | 0.398            | 244-806  |
| Chemguard Inc. | 4                   | 0.522            | 400-1506 |
| Chemguard Inc. | 6                   | 0.755            | 880-2875 |

## PROPORTIONERS-BALANCED PRESSURE VALVES WITH CONTROLLERS

| Description                                    | Controller Size In. | Orifice Size In. | Flow GPM  |
|------------------------------------------------|---------------------|------------------|-----------|
| Model CILBP4 with<br>1-1/2 in balancing valve  | 4                   | 0.574            | 1000-1506 |
| Model CILBP6 with<br>2-1/2 in. balancing valve | 6                   | 0.522            | 660       |
| Model CILBP6 with<br>2-1/2 in. balancing valve | 6                   | 0.690            | 1470-3019 |
| Model CILBP6 with<br>2-1/2 in. balancing valve | 6                   | 0.780            | 788-1444  |

## NOZZLES

| Description                         | Size In. | Inlet Pressure psi |
|-------------------------------------|----------|--------------------|
| National Foam Inc.,<br>Model JS-10  | 1-1/2    | 75                 |
| Elkhart Brass Mfg.,<br>Model HF-500 | 2-1/2    | 80                 |

## FIXED FOAM DISCHARGE OUTLETS

| Description                      | Orifice Diam In. | Inlet Pressure psi |
|----------------------------------|------------------|--------------------|
| Chemguard Inc.,<br>Model FC-3.0  | 0.937-1.252      | 40-100             |
| Chemguard Inc.,<br>Model FC-4.0  | 1.848            | 100                |
| Chemguard Inc.,<br>Model FC-6.0  | 1.836-2.400      | 40-100             |
| Chemguard Inc.,<br>Model CGFM1.5 | 0.524            | 150                |
| Chemguard Inc.,<br>Model CGFM2.5 | 0.829            | 50-150             |

## FIXED FOAM MAKERS

| Description                           | Inlet Pressure psi | Back Pressure psi | Concentration % |
|---------------------------------------|--------------------|-------------------|-----------------|
| Chemguard Inc.,<br>Model CFM90-15, -B | 125                | 0-40              | 3               |
| Chemguard Inc.,                       | 100                | 40                | 3               |

|                      |     |      |   |
|----------------------|-----|------|---|
| Model CFM70-25, -B   |     |      |   |
| Chemguard Inc.,      | 100 | 0-40 | 3 |
| Model CFM270-25, -B  |     |      |   |
| Chemguard Inc.,      | 100 | 0-40 | 3 |
| Model CFM250-40, -B  |     |      |   |
| Chemguard Inc.,      | 100 | 0-40 | 3 |
| Model CFM1000-40, -B |     |      |   |

## SPRINKLERS

| Fuel                                                                         | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|------------------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Grinnell Fire Protection Systems Co., Model F950, Standard Orifice (1/2 in.) |         |                                  |                        |
| Hydrocarbons                                                                 | Pendent | 0.16                             | 7.0                    |

## CHEMGUARD 3 PERCENT-6 PERCENT AR-AFFF C-361, 6 PERCENT

## PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM  |
|----------------|---------------------|------------------|-----------|
| Chemguard Inc. | 2-1/2               | 0.365            | 144-400   |
| Chemguard Inc. | 3                   | 0.552            | 306-806   |
| Chemguard Inc. | 4                   | 0.724            | 640-1615  |
| Chemguard Inc. | 6                   | 1.120            | 2000-3019 |

## FIXED FOAM DISCHARGE OUTLETS

| Description     | Fuel    | Orifice Diam In. | Inlet Pressure psi |
|-----------------|---------|------------------|--------------------|
| Chemguard Inc.  | Alc     | 0.697-0.937      | 40-100             |
| Model FC-2.5    |         |                  |                    |
| Chemguard Inc., | Alc     | 1.255-1.848      | 40-100             |
| Model FC-4.0    | K, EST  | 1.255            | 40                 |
|                 | EST     | 1.375            | 40                 |
|                 | MEK, CA | 1.375            | 40-75              |
|                 | EST     | 1.848            | 75                 |

Where:

| Fuel                      | Min Application Rate GPM / Sq Ft |
|---------------------------|----------------------------------|
| Alc (Alcohols)            | 0.15                             |
| EST (Butyl Acetates)      | 0.10                             |
| MEK (Methyl Ethyl Ketone) | 0.14                             |
| K (Ketone)                | 0.14                             |
| CA (Carboxylic Acids)     | 0.10                             |

## SPRINKLERS

| Fuel                                                                         | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|------------------------------------------------------------------------------|---------|----------------------------------|------------------------|
| Grinnell Fire Protection Systems Co., Model F950, Standard Orifice (1/2 in.) |         |                                  |                        |
| Alcohols                                                                     | Pendent | 0.26                             | 18.5                   |
| Reliable Automatic Sprinkler Co., Inc., Model G, Standard Orifice (1/2 in.)  |         |                                  |                        |
| Mtbe                                                                         | Upright | 0.26                             | 18.5                   |

**ULTRAGUARD 3 PERCENT AR-AFFF CUG, 3 PERCENT**

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

Viking Corp., Models FE-90, P/N FO9183 , 1-1/2 in. size, 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 (NH) nozzle.

## PROPORTIONERS-BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM  |
|----------------|---------------------|------------------|-----------|
| Chemguard Inc. | 2-1/2               | 0.252            | 300-400   |
| Chemguard Inc. | 2-1/2               | 0.277            | 115-300   |
| Chemguard Inc. | 3                   | 0.365            | 603-806   |
| Chemguard Inc. | 3                   | 0.398            | 244-400   |
| Chemguard Inc. | 4                   | 0.485            | 500-1506  |
| Chemguard Inc. | 4                   | 0.522            | 400-498   |
| Chemguard Inc. | 6                   | 0.700            | 1591-3020 |
| Chemguard Inc. | 6                   | 0.755            | 954-1412  |
| Chemguard Inc. | 8                   | 0.975            | 1991-4596 |
| Chemguard Inc. | 8                   | 1.052            | 1500-1991 |

## PROPORTIONERS-VARIABLE ORIFICE CONTROLLERS

| Description                             | Size In. | Flow GPM |
|-----------------------------------------|----------|----------|
| Model Ultra-Wide Proportioner (CPP2500) | 6        | 20-2500  |

## NOZZLES

| Description                         | Size In. | Inlet Pressure psi |
|-------------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10(NH) | 1-1/2    | 72                 |

## FIXED FOAM DISCHARGE OUTLETS

| Description                  | Fuel                  | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|-----------------------|------------------|--------------------|
| Chemguard Inc.,              | Hydrocarbons, Alc     | 1.000            | 100                |
| Model FC-2.5                 |                       |                  |                    |
| Chemguard Inc., Model FC-2.5 | Hydrocarbons          | 0.697            | 40-100             |
| Chemguard Inc., Model FC-2.5 | DeNaturalized Ethanol | 0.697            | 100                |
| Chemguard Inc.,              | Hydrocarbons, Alc     | 1.252            | 75                 |
| Model FC-3.0                 |                       |                  |                    |
| Chemguard Inc., Model FC-3.0 | Hydrocarbons          | 1.252            | 40-100             |

|                                 |                       |       |        |
|---------------------------------|-----------------------|-------|--------|
| Chemguard Inc., Model FC-3.0    | DeNaturalized Ethanol | 1.252 | 100    |
| Chemguard Inc.,<br>Model FC-3.0 | Alc                   | 0.937 | 100    |
| Chemguard Inc., Model FC-3.0    | Hydrocarbons          | 0.937 | 40-70  |
| Chemguard Inc., Model FC-3.0    | DeNaturalized Ethanol | 0.937 | 70     |
| Chemguard Inc., Model FC-4.0    | Hydrocarbons          | 1.255 | 40-100 |
| Chemguard Inc., Model FC-4.0    | DeNaturalized Ethanol | 1.255 | 70-100 |
| Chemguard Inc., Model FC-4.0    | Hydrocarbons          | 1.848 | 40     |

Where:

| <b>Fuel</b>           | <b>Min<br/>Application Rate<br/>GPM / Sq Ft</b> |
|-----------------------|-------------------------------------------------|
| Alc(Alcohols)         | 0.15                                            |
| DeNaturalized Ethanol | 0.10                                            |

## SPRINKLERS

| <b>Fuel</b>                                                                  | <b>Style</b> | <b>Min Application<br/>Rate GPM / Sq Ft</b> | <b>Min Inlet<br/>Pressure psi</b> |
|------------------------------------------------------------------------------|--------------|---------------------------------------------|-----------------------------------|
| Reliable Automatic Sprinkler Co. Inc., Model G, Standard Orifice (1/2 in.)   |              |                                             |                                   |
| Hydrocarbons                                                                 | Pendent      | 0.16                                        | 7.0                               |
| Hydrocarbons                                                                 | Upright      | 0.16                                        | 7.0                               |
| Alcohols                                                                     | Pendent      | 0.26                                        | 18.5                              |
| Alcohols                                                                     | Upright      | 0.26                                        | 18.5                              |
| Methyl Alcohol                                                               | Pendent      | 0.22                                        | 13.5                              |
| Esters                                                                       | Pendent      | 0.24                                        | 16.5                              |
| Reliable Automatic Sprinkler Co. Inc., Model G, Large Orifice (17/32 in.)    |              |                                             |                                   |
| Hydrocarbons                                                                 | Pendent      | 0.22                                        | 7.0                               |
| Hydrocarbons                                                                 | Upright      | 0.22                                        | 7.0                               |
| Alcohols                                                                     | Upright      | 0.30                                        | 13.5                              |
| Grinnell Fire Protection Systems Co., Model F950, Standard Orifice (1/2 in.) |              |                                             |                                   |
| Hydrocarbons                                                                 | Pendent      | 0.16                                        | 7.0                               |
| Alcohols                                                                     | Pendent      | 0.26                                        | 19.0                              |
| Tyco Fire Products., SIN TY3111, K-Factor 5.6 (1/2 in.)                      |              |                                             |                                   |
| DeNaturalized Ethanol                                                        | Pendent      | 0.20                                        | 11.5                              |
| Tyco Fire Products., SIN TY3111, K-Factor 5.6 (1/2 in.)                      |              |                                             |                                   |
| DeNaturalized Ethanol                                                        | Upright      | 0.24                                        | 15.0                              |
| Tyco Fire Products, SIN TY4251, K = 8.0 (17/32 in.)                          |              |                                             |                                   |
| Hydrocarbons                                                                 | Pendent      | 0.22                                        | 7.0                               |
| Tyco Fire Products, SIN TY4151, K = 8.0 (17/32 in.)                          |              |                                             |                                   |
| Hydrocarbons                                                                 | Upright      | 0.22                                        | 7.0                               |
| Alcohols                                                                     | Upright      | 0.37                                        | 19.5                              |
| Star Sprinkler Corp., Model SG, Standard Orifice (1/2 in.)                   |              |                                             |                                   |
| Hydrocarbons                                                                 | Upright      | 0.16                                        | 7.0                               |

|                                                                       |         |      |      |
|-----------------------------------------------------------------------|---------|------|------|
| Acetone                                                               | Upright | 0.24 | 16.5 |
| Viking Corp., SIN VK100, K-Factor 5.6 (1/2 in.)                       |         |      |      |
| Hydrocarbons                                                          | Upright | 0.16 | 7.0  |
| DeNatured Ethanol                                                     | Upright | 0.21 | 12.5 |
| Viking Corp., SIN VK102, K-Factor 5.6 (1/2 in.)                       |         |      |      |
| Hydrocarbons                                                          | Pendent | 0.16 | 7.0  |
| Ethyl Alcohol                                                         | Pendent | 0.23 | 13.5 |
| Viking Corp., SIN VK200, K-Factor 8.0 (17/32 in.)                     |         |      |      |
| Hydrocarbons                                                          | Upright | 0.22 | 7.0  |
| Viking Corp., SIN VK202, K-Factor 8.0 (17/32 in.)                     |         |      |      |
| Hydrocarbons                                                          | Pendent | 0.22 | 7.0  |
| Central Sprinkler Corp., Model ELO-231, Extra Large Orifice (5/8 in.) |         |      |      |
| Alcohols                                                              | Pendent | 0.37 | 9.5  |

## SPRAY NOZZLES

| Description             | Fuel         | Discharge Angle, Deg. | Min Inlet Pressure psi | Minimum Application Rate gpm/sq ft |
|-------------------------|--------------|-----------------------|------------------------|------------------------------------|
| Globe Model JN, 1/2 in. | Hydrocarbons | 180                   | 7.0                    | 0.16                               |
| Globe Model JN, 3/8 in. | Hydrocarbons | 180                   | 30.0                   | 0.16                               |

## FOAM WATER SPRINKLERS

Tyco Fire Products, Model B1 pendent style, 30 psi minimum pressure, alcohols and DeNatured Ethanol fuels only.

**CHEMGUARD 3 PERCENT AFFF C3LT, 3 PERCENT**

## PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

National Foam Inc., Model HLP-9M-200, 1-1/2 in. size, set at 3, 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

## NOZZLES

| Description         | Size In. | Inlet Pressure psi |
|---------------------|----------|--------------------|
| National Foam Inc., | 1-1/2    | 62                 |
| Model JS-10         |          |                    |

**CHEMGUARD 3 PERCENT / 6 PERCENT AR-AFFF C-363, 3 PERCENT**

## PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Viking Model FE-90, Part No. FO9183, 1-1/2 in. size, with 50 ft (15.2 m) or 1-1/2 in. (38.1 mm) hose between inductor and National Foam Model JS-10 nozzle.

## NOZZLES

| Description         | Size In. | Inlet Pressure psi |
|---------------------|----------|--------------------|
| National Foam Inc., | 1-1/2    | 75                 |
| Model JS-10         |          |                    |

## PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS

Chemguard Inc., bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 3                   | 0.398            | 247      |
| Chemguard Inc. | 3                   | 0.365            | 246-400  |
| Chemguard Inc. | 3                   | 0.343            | 400-551  |

**FIXED FOAM, DISCHARGE OUTLETS**

| Description                  | Fuel         | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|--------------|------------------|--------------------|
| Chemguard Inc., Model FC 2.5 | Hydrocarbons | 0.637            | 40-70              |
| Chemguard Inc., Model FC 3.0 | Hydrocarbons | 0.937            | 40-100             |
| Chemguard Inc., Model FC 4.0 | Hydrocarbons | 1.255            | 68                 |

**SPRINKLERS**

| Fuel                                         | Style   | Min Application Rate GPM / Sq Ft | Min Inlet Pressure psi |
|----------------------------------------------|---------|----------------------------------|------------------------|
| Tyco Fire Products, SIN TY3111, K-Factor 5.6 |         |                                  |                        |
| Hydrocarbons                                 | Upright | 0.16                             | 7.0                    |
| Viking Corp., SIN VK100, K-Factor 5.6        |         |                                  |                        |
| Hydrocarbons                                 | Pendent | 0.16                             | 7.0                    |
| Viking Corp., SIN VK102, K-Factor 5.6        |         |                                  |                        |
| Hydrocarbons                                 | Upright | 0.16                             | 7.0                    |

**CHEMGUARD 3 PERCENT / 6 PERCENT AR-AFFF C-363, 6 PERCENT****PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS**

Chemguard Inc., bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 4                   | 0.724            | 397-1230 |

**FIXED FOAM, DISCHARGE OUTLETS**

| Description                  | Fuel              | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|-------------------|------------------|--------------------|
| Chemguard Inc., Model FC 2.5 | Alc               | 0.637            | 40-100             |
| Chemguard Inc., Model FC 2.5 | Denatured Ethanol | 0.637            | 100                |
| Chemguard Inc., Model FC 3.0 | Alc               | 0.697            | 70-100             |
| Chemguard Inc., Model FC 3.0 | Denatured Ethanol | 0.697            | 70-100             |
| Chemguard Inc., Model FC 3.0 | Alc               | 0.937            | 40-70              |
| Chemguard Inc., Model FC 3.0 | Denatured Ethanol | 0.937            | 40-70              |
| Chemguard Inc., Model FC 3.0 | Alc               | 1.252            | 40                 |
| Chemguard Inc., Model FC 4.0 | Alc               | 1.375            | 100                |
| Chemguard Inc., Model FC 3.0 | Denatured Ethanol | 1.252            | 40-68              |
| Chemguard Inc., Model FC 4.0 | Denatured Ethanol | 1.252            | 100                |
| Chemguard Inc., Model FC 4.0 | Denatured Ethanol | 1.848            | 40                 |

Where:

| <b>Fuel</b>       | <b>Min Application Rate<br/>GPM / Sq Ft</b> |
|-------------------|---------------------------------------------|
| Alc(Alcohols)     | 0.14                                        |
| Denatured Ethanol | 0.10                                        |

**SPRINKLERS**

| <b>Fuel</b>                                           | <b>Style</b> | <b>Min Application Rate GPM / Sq Ft</b> | <b>Min Inlet Pressure psi</b> |
|-------------------------------------------------------|--------------|-----------------------------------------|-------------------------------|
| Reliable Automatic Sprinkler, SIN R1015, K-Factor 5.6 |              |                                         |                               |
| Alcohols                                              | Upright      | 0.23                                    | 15.5                          |
| Tyco Fire Products, SIN TY3111, K-Factor 5.6          |              |                                         |                               |
| Alcohols                                              | Upright      | 0.22                                    | 14.5                          |
| Tyco Fire Products, SIN TY3211, K-Factor 5.6          |              |                                         |                               |
| Alcohols                                              | Pendent      | 0.23                                    | 15.5                          |
| Viking Corp., SIN VK100, K-Factor 5.6                 |              |                                         |                               |
| Alcohols                                              | Pendent      | 0.23                                    | 15.5                          |

**CHEMGUARD 3 PERCENT AR-AFFF C33LT, 3 PERCENT****PROPORTIONERS - PORTABLE IN-LINE INDUCTORS**

Viking Model FE-90, Part No. FO9183, 1-1/2 in. size, with 50 ft (15.2 m) or 1-1/2 in. (38.1 mm) hose between inductor and National Foam Model JS-10 nozzle.

**NOZZLES**

| <b>Description</b>  | <b>Size In.</b> | <b>Inlet Pressure psi</b> |
|---------------------|-----------------|---------------------------|
| National Foam Inc., | 1-1/2           | 78                        |
| Model JS-10         |                 |                           |

**PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS**

Chemguard Inc., bladder tanks with the following controllers:

| <b>Description</b> | <b>Controller Size In.</b> | <b>Orifice Size In.</b> | <b>Flow GPM</b> |
|--------------------|----------------------------|-------------------------|-----------------|
| Chemguard Inc.     | 3                          | 0.398                   | 290             |

**FIXED FOAM, DISCHARGE OUTLETS**

| <b>Description</b>           | <b>Orifice Diam In.</b> | <b>Inlet Pressure psi</b> |
|------------------------------|-------------------------|---------------------------|
| Chemguard Inc., Model FC 3.0 | 1.252                   | 100                       |

Where:

| <b>Fuel</b>   | <b>Min Application Rate<br/>GPM / Sq Ft</b> |
|---------------|---------------------------------------------|
| Alc(Alcohols) | 0.16                                        |

**ECOGUARD 3 PERCENT SYNTHETIC E3, 3 PERCENT**

## PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

National Foam Inc., Model HLP-9M, 1-1/2 in. size, set at 3, inlet pressure 175 psi with 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

## NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 67                 |

**ECOGUARD 3 PERCENT AR-SYNTHETIC E3AR, 3 PERCENT**

## PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90 P/N F09183, 1-1/2 in. size, set at 3, inlet pressure 167 psi with 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

## PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS

Chemguard Inc., bladder tanks with the following controllers:

| Description | Controller Size In. | Orifice Size In. | Flow GPM |
|-------------|---------------------|------------------|----------|
| Chemguard   | 2-1/2               | 0.277            | 140      |

## NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 64                 |

**FIXED FOAM DISCHARGE OUTLETS**

| Description                  | Fuel         | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|--------------|------------------|--------------------|
| Chemguard Inc., Model FC 2.5 | Hydrocarbons | 0.937            | 80                 |
| Chemguard Inc., Model FC 2.5 | Alc          | 0.937            | 80                 |

Where:

| Fuel           | Min Application Rate GPM / Sq Ft |
|----------------|----------------------------------|
| Alc (Alcohols) | 0.15                             |

**ECOGUARD 3 PERCENT F3, SYNTHETIC E3F3, 3 PERCENT**

## PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

National Foam Inc., Model HLP-9M, 1-1/2 in. size, set at 3, inlet pressure between 175 psi with 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

## PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS

Chemguard Inc., bladder tanks with the following controllers:

|  |  |  |  |
|--|--|--|--|
|  |  |  |  |
|--|--|--|--|



| Description | Controller Size In. | Orifice Size In. | Flow GPM |
|-------------|---------------------|------------------|----------|
| Chemguard   | 3                   | 0.366            | 100-713  |

## NOZZLES

| Description           | Size In. | Inlet Pressure psi |
|-----------------------|----------|--------------------|
| National, Model JS-10 | 1-1/2    | 67                 |

## SPRINKLERS

| Fuel                                            | Style   | Min Application Rate GPM/Sq Ft | Min Inlet Pressure psi |
|-------------------------------------------------|---------|--------------------------------|------------------------|
| Viking Corp., SIN VK325, K Factor 2.8 (3/8 in.) |         |                                |                        |
| Hydrocarbons                                    | Upright | 0.16                           | 30.0                   |

**ULTRAGUARD 1 PERCENT / 3 PERCENT AR-AFFF C-134, 1 PERCENT**

## PROPORTIONERS - PORTABLE IN-LINE INDUCTORS

Viking, Model FE-90, Part No. FO 9183, 1-1/2 in. size, with 50 ft of 1-1/2 in. hose between inductor and National Foam, Model JS-10 nozzle.

## NOZZLES

| Description                     | Size In. | Inlet Pressure psi |
|---------------------------------|----------|--------------------|
| National Foam Inc., Model JS-10 | 1-1/2    | 60-76              |

**ULTRAGUARD 1 PERCENT / 3 PERCENT AR-AFFF C-134, 3 PERCENT**

## PROPORTIONERS - BLADDER TANKS WITH CONTROLLERS

Chemguard Inc. bladder tanks with the following controllers:

| Description    | Controller Size In. | Orifice Size In. | Flow GPM |
|----------------|---------------------|------------------|----------|
| Chemguard Inc. | 3                   | 0.398            | 247-292  |

**FIXED FOAM DISCHARGE OUTLETS**

| Description                  | Fuel | Orifice Diam In. | Inlet Pressure psi |
|------------------------------|------|------------------|--------------------|
| Chemguard Inc., Model FC 3.0 | Alc  | 1.252            | 75-100             |

Where:

| Fuel           | Min Application Rate GPM/Sq Ft |
|----------------|--------------------------------|
| Alc (Alcohols) | 0.10                           |

**Chemguard 3 % Fluoroprotein, C3FP**

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90, 1-1/2 in. size with 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

## NOZZLES

| Description        | Size In. | Inlet Pressure psi |
|--------------------|----------|--------------------|
| National Foam Inc. | 1-1/2    | 58                 |
| Model JS-10, -10B  |          |                    |

**Chemguard 6% Fluoroprotein, C6FP**

## PROPORTIONERS-PORTABLE IN-LINE INDUCTORS

Viking Corp., Model FE-90, 1-1/2 in. size with 50 ft of 1-1/2 in. hose between inductor and National Foam Inc., Model JS-10 nozzle.

## NOZZLES

| Description        | Size In. | Inlet Pressure psi |
|--------------------|----------|--------------------|
| National Foam Inc. | 1-1/2    | 58                 |
| Model JS-10, -10B  |          |                    |

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