



GFGV.EX6202 Foam Liquid Concentrates

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Foam Liquid Concentrates

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INTERNATIONAL SECURITY & SAFETY SYSTEMS CO-S A E

EX6202

49 ABBASS EL AKKAD ST
NASR CITY, CAIRO EGYPT

ISS 3 percent AFFF EGY-C301MS, nominal 3 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

ISS 3 percent AFFF EGY-C303, nominal 3 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

ISS 6 percent AFFF EGY-C603, nominal 6 percent Aqueous Film Forming Foam, +35 F min storage and use temperature. Hydrocarbon fuels only.

ISS 3 percent-6 percent AR-AFFF EGY-C361, 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.

ISS 3 percent AR-AFFF EGY-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.

ISS 3% AR-AFFF EGY-C333, 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.

Foam concentrates for use with the following equipment:

ISS 3 PERCENT AFFF EGY-C301MS, 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	32-776
Chemguard Inc.	4	0.485	52-1581
Chemguard Inc.	6	0.700	99-3237
Chemguard Inc.	8	0.975	149-3943

PROPORTIONERS- BALANCED PRESSURE VALVES WITH CONTROLLERS

Description	Controller Size In.	Orifice Size In.	Flow GPM
Model CVILBP3	3	0.370	105-856
Model CVILBP4	4	0.485	211-1414
Model CVILBP6	6	0.670	324-2811
Model CVILBP8	8	0.950	909-3359

NOZZLES

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

FOAM MONITORS

		Nozzle Inlet
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Description	Nozzle	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
Description		Flow GPM
90° Grate Nozzle - K Factor of 6.5		40-50
180° Grate Nozzle - K Factor of 12.0		76-93
Grate Nozzle - K Factor of 23.0		148-181

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
Viking Corp., SIN VK100, K-Factor 5.6 (1/2 in.)			
Hydrocarbons	Upright	0.16	7.0
Viking Corp., SIN VK910, K-Factor 5.6 (1/2 in.)			
Hydrocarbons	Pendent	0.16	7.0
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

ISS 3 PERCENT AFFF EGY-C303, 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	34-440
Chemguard Inc.	3	0.365	43-770
Chemguard Inc.	4	0.485	21-1402
Chemguard Inc.	6	0.700	51-2802

Chemguard Inc.	8	0.975	88-3898
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PROPORTIONERS- BALANCED PRESSURE VALVES WITH CONTROLLERS

Description	Controller Size In.	Orifice Size In.	Flow GPM
Model CVILBP3	3	0.370	104-778
Model CVILBP4	4	0.470	305-1380
Model CVILBP6	6	0.670	298-3051
Model CVILBP8	8	0.950	926-3290

PROPORTIONERS- BALANCED PRESSURE VALVES WITH CONTROLLERS

Description	Controller Size In.	Orifice Size In.	Flow GPM
Model CBPP4	4	0.390	602-1303

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
Viking Corp., SIN VK100, K-Factor 5.6 (1/2 in.)			
Hydrocarbons	Upright	0.16	7.0
Viking Corp., SIN VK910, K-Factor 5.6 (1/2 in.)			
Hydrocarbons	Pendent	0.16	7.0
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
Viking Corp., SIN VK001, K-Factor 2.8 (3/8 in.)			
Hydrocarbons	Upright	0.16	30.0
Viking Corp., SIN VK002, K-Factor 4.2 (7/16 in.)			
Hydrocarbons	Upright	0.16	13.0
Viking Corp., SIN VK530, K-Factor 11.2 (5/8 in.)			
Hydrocarbons	Upright	0.32	7.0
Viking Corp., SIN VK580, K-Factor 16.8 (3/4 in.)			
Hydrocarbons	Upright	0.48	7.0

FIXED FOAM DISCHARGE OUTLETS

Description	Flow GPM
90° Grate Nozzle - K Factor of 6.5	40-50
180° Grate Nozzle - K Factor of 12.0	76-93
Grate Nozzle - K Factor of 23.0	148-181

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

ISS 3 PERCENT-6 PERCENT AR-AFFF EGY-C361, 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 1-1/2 in balancing valve	4	0.574	1000-1506
Model CILBP6 with 2-1/2 in. balancing valve	6	0.522	660
Model CILBP6 with 2-1/2 in. balancing valve	6	0.690	1470-3019
Model CILBP6 with 2-1/2 in. balancing valve	6	0.780	788-1444

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	80

FIXED FOAM DISCHARGE OUTLETS

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

Chemguard Inc.,	0.829	50-150
Model CGFM2.5		

FIXED FOAM MAKERS

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

ISS 3 PERCENT-6 PERCENT AR-AFFF EGY-C361, 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

ISS 3 PERCENT AR-AFFF EGY-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	0.271	114-385
Chemguard Inc.	3	0.380	207-820
Chemguard Inc.	4	0.506	410-1500
Chemguard Inc.	6	0.795	680-3188
Chemguard Inc.	8	0.975	1991-4596
Chemguard Inc.	8	1.125	1159-3284

PROPORTIONERS- BALANCED PRESSURE VALVES WITH CONTROLLERS

Description	Controller Size In.	Orifice Size In.	Flow GPM
Model CVILBP3	3	0.370	205-783
Model CVILBP4	4	0.485	146-1400
Model CVILBP6	6	0.670	461-2990
Model CVILBP8	8	0.950	933-3347

PROPORTIONERS- BALANCED PRESSURE VALVES WITH CONTROLLERS

Description	Controller Size In.	Orifice Size In.	Flow GPM
Model CBPP3	3	0.370	261-710
Model CBPP4	4	0.474	600-1375
Model CBPP6	6	0.625	1215-3031

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

	Orifice	Inlet

Description	Fuel	Diam In.	Pressure psi
Chemguard Inc., Model FC-2.5	Hydrocarbons, Alc	1.000	100
Chemguard Inc., Model FC-2.5	Hydrocarbons	0.697	40-100
Chemguard Inc., Model FC-2.5	DeNatured Ethanol	0.697	100
Chemguard Inc., Model FC-3.0	Hydrocarbons, Alc	1.252	75
Chemguard Inc., Model FC-3.0	Hydrocarbons	1.252	40-100
Chemguard Inc., Model FC-3.0	DeNatured Ethanol	1.252	100
Chemguard Inc., 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	DeNatured Ethanol	0.937	70
Chemguard Inc., Model FC-4.0	Hydrocarbons	1.255	40-100
Chemguard Inc., Model FC-4.0	DeNatured Ethanol	1.255	70-100
Chemguard Inc., Model FC-4.0	Hydrocarbons	1.848	40
Viking Corp., 180° Grate Nozzle - K Factor of 12.0	Hydrocarbons	-	50-56
Viking Corp., Grate Nozzle - K Factor of 23.0	Hydrocarbons	-	55-82
Description	Fuel	Flow GPM	
180° Grate Nozzle - K Factor of 12.0	Hydrocarbons	76-93	
Grate Nozzle - K Factor of 23.0	Hydrocarbons	148-181	

Where:

Fuel	Min Application Rate GPM/Sq Ft
Alc(Alcohols)	0.15
DeNatured Ethanol	0.10

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	7.0
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.)			
DeNatured Ethanol	Upright	0.20	11.5
Tyco Fire Products., SIN TY3211, K-Factor 5.6 (1/2 in.)			

DeNatured Ethanol	Pendent	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
Esters	Upright	0.23	15.5
Ketones	Upright	0.23	15.5
Alcohols	Upright	0.24	16.5
Ethyl Alcohol	Upright	0.19	10.5
Ethers	Upright	0.26	19.0
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 VK910, K-Factor 5.6 (1/2 in.)			
Hydrocarbons	Pendent	0.16	7.0
Alcohols	Pendent	0.24	16.5
Ethyl Alcohol	Pendent	0.19	10.5
Ketones	Pendent	0.30	26.0
Viking Corp., SIN VK200, K-Factor 8.0 (17/32 in.)			
Hydrocarbons	Upright	0.22	7.0
Alcohols	Upright	0.29	12.0
Ethyl Alcohol	Upright	0.24	8.5
Esters	Upright	0.26	9.5
Ketones	Upright	0.34	16.5
Ethers	Upright	0.30	13.5
Viking Corp., SIN VK202, K-Factor 8.0 (17/32 in.)			
Hydrocarbons	Pendent	0.22	7.0
Alcohols	Pendent	0.29	12.0
Ethyl Alcohol	Pendent	0.24	8.5
Ketones	Pendent	0.34	17.0
Viking Corp., SIN VK530, K-Factor 11.2 (5/8 in.)			
Hydrocarbons	Upright	0.32	7.0
Alcohols	Upright	0.38	10.5
Ethyl Alcohol	Upright	0.34	8.5
Ketones	Upright	0.41	12.0
Ethers	Upright	0.32	7.0
Esters	Upright	0.37	9.5
Viking Corp., SIN VK580, K-Factor 16.8 (3/4 in.)			

Hydrocarbons	Upright	0.48	7.0
Alcohols	Upright	0.55	9.5
Ethyl Alcohol	Upright	0.48	7.0
Ketones	Upright	0.55	9.5
Ethers	Upright	0.48	7.0
Esters	Upright	0.48	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.

ISS 3 PERCENT AR-AFFF EGY-C333, 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

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