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See General Information for Carbon Dioxide Extinguishing System Units, General Use

CHEMETRON FIRE SYSTEMS

EX1368

3RD FL
4801 SOUTHWICK DR
MATTESON, IL 60443 USA

Low-pressure system units

All storage tanks are manufactured and marked in accordance with ASME specifications having a rated working pressure of 350 psi.

Models 1-048-1062 through -1065 or -1074 through -1077 1-1/4 ton -1066 through -1069 or -1078 through -1081 2 ton, -1070 through -1073 or -1082 through -1085 -2/3/4 ton capacity, 42 in. ID storage units utilizing refrigerants R404A or R507 .

Models 1-048-1066 through -1097 4 ton, -1098 through -1109 6 ton, -1110 through -1120 or -1140 through -1151 8 ton, -1122 through -1133 10 ton capacity, 54 in. ID storage units utilizing refrigerants R404A or R507 .

Models 1-048-1211 through -1220 or -1340 through -1349 13 ton, -1221 through -1230 or -1350 through -1359 17 ton, -1231 through -1240 or -1360 through -1369 24 ton, -1241 through -1250 or -1370 through -1379 31 ton, -1251 through -1260 or -1380 through -1389 45 ton capacity, 78 in. ID storage units utilizing refrigerants R404A or R507 .

Storage Tanks

Metal-housed and cork covered. All tanks provided with Listed refrigeration unit and controls and safety vent assembly. With or without integral transfer pump, Listed explosion-proof electrical equipment, cylinder filling connections, dual refrigeration. Models 1-048-0176 , 1-048-0062 , 3/8 and 1 ton units, respectively; Models 1-048-0063 through -0068, -0097 through -0102, -0126 through -0131, -0132 through -0137, -0138 through -0143, -0169, -0170, -0177, -0178, with suffix numbers related to capacities from 2 through 52 tons.

Metal-housed with foamed polyurethane insulation. Models 1-048-0192 or -0484 1-1/4 ton, 1-048-0193 or -0485 2 ton, 1-048-0194 or -0486 2-3/4 ton, 1-048-0235 4 ton, 1-048-0236 6 ton, 1-048-0277 8 ton capacities, respectively.

Fiberglass housing with foamed polyurethane insulation. Models 1-048-0009, -0018, -0038, -0052, -0907 through -0910 with 17, 24 , 31 and 13 ton capacities, respectively.

Timers, Timer Valves

Automatic mechanical timer, 1-010-0038-8 .

Discharge timer valve, C41752 .

Selector valves.

Size & Stock No.	Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 80	Schedule 40
1-1/2 in. - 1-061-0371	1-3/4	8	13

1-1/2 in. - 1-061-0371	1	29	47
1-1/2 in. - 1-061-0663-6	1	24.5	40
1-1/2 in. - 1-061-0369	1-1/2	49	72
1-1/2 in. - 1-061-0312	1-1/2	48	71
2-1/2 in. - 1-061-0370	2	48	67
3-1/2 in. - 1-061-0733	2-1/2	23	31
3-1/2 in. - 1-061-0733	3	73	99
4-1/2 in. - 1-061-0734	3-1/2	44	61
4-1/2 in. - 1-061-0734	4	92	120
6-1/2 in. - 1-061-0740	5	55	70
6-1/2 in. - 1-061-0740	6	142	185
Tank shut-off valves.			
3 in. - 8-061-0317, 1-061-0989,0998,0994	3	23	30
4 in. - 8-061-0318 1-061-0990,0999,0995	4	24	31
6 in. - 8-061-0319 1-061-0991,1000,0996	6	37	47
8 in. - 8-061-0320 1-061-0992,0997	8	50	62

Miscellaneous Equipment

Manual Pilot Valve Station	Stock No.
Emergency manual release	1-010-0693
Flush	1-010-0145
Supervisory pressure switches	70170177, -178
Surface	1-010-0162-6
Three-way pressure operated valve	1-061-0668
Three-way pilot valves	1-061-0794, -0801, -0804
Three-way solenoid valve	B46621
Manual release station	1-010-0968

Electrical Components — For Use with Low Pressure Systems

Push-Button Stations

Part Name	Model No.
First extended, surface	24308

First extended, flush	24338
Second extended, surface	24306
Second extended, flush	24344
Spurt, surface	24304
Spurt, flush	24340
Control unit system, surface	24337
Control unit system, flush	24346

Pilot Control Valves

Manual Pilot Valve Station	Stock No.
Electro-Manual Pilot Valve Cabinet	D1-010-420
	through -0439, D1-061-0802
	through -0812
Electrical	21443, 21965

Lever Operated Valves

Size	Stock No. With Limit Switch
3/4 in.	1-061-0087
1 in.	1-061-0072
1-1/4 in.	1-061-0372
1-1/2 in.	1-061-0267
2 in.	1-061-0079

Use equivalent length for gate valve of appropriate size.

The valves above have weather-resistant limit switches.

Hand-Wheel Operated Valves

Size	Model No.
1 in.	1-061-0121, 8-061-0083
1-1/4 in.	1-061-0075, 8-061-0084
1-1/2 in.	8-061-0021
2 in.	8-061-0022
3 in.	8-061-0024
4 in.	8-061-0025
6 in.	8-061-0026
Gate Valves	
1-1/2 in.	1-061-0078

2 in.	1-061-0080
3	1-061-0082
4	1-061-0083
6	1-061-0085
Note: Use equivalent length for gate valve of appropriate size.	
Ball valves.	
1/4 in.	1-061-0708
1/2	1-061-0319
3/4	1-061-0320
1	1-061-0709
1-1/4	1-061-0710
1-1/2	1-061-0711
2	1-061-0712
1/4 in.	1-061-1104
1/2	1-061-1100
3/4	1-061-1101
1	1-061-1099
1-1/4	1-061-1102
1-1/2	1-061-1098
2	1-061-1103
1/4 in.	1-061-1106
1/2	1-061-1107
3/4	1-061-1108
1	1-061-1109
1-1/4	1-061-1110
1-1/2	1-061-1111
2	1-061-1112
1/4 in.	1-061-1113
1/2	1-061-1114
3/4	1-061-1115
1	1-061-1116
1-1/4	1-061-1117
1-1/2	1-061-1118
2	1-061-1119
Butterfly valves	
3 in.	1-061-0989
4 in.	1-061-0990

6 in.	1-061-0991
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High-pressure system units.

Cylinder Valve Assemblies

For use with 50-, 75- or 100-lb. cylinders, classed DOT-3A, -3AA, -1800 or higher.

	Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 80	Schedule 40
Includes FC34937 valve, No. 571194 flex-ible connector and one of the following discharge heads: FB34922, -34990.	1/2	57	111
Includes FC34937 valve, No. 526263 flex-ible connector and one of the following discharge heads: FB34922, -34990.	1/2	49	95
Includes C50401 valve, No. 526263 flex-ible connector and one of the following discharge heads: C50286 or B50438.	1/2	13	30

Size & Stock No.	Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 80	Schedule 40
1-1/2 in. - FD34039	3/4	8	13
1-1/2 in. - FD34039	1	29	—
1-1/2 in. - FD23907	1-1/2	49	—
2-1/2 in. - FD23909	2	48	—
3-1/2 in. - D1-61-0733	3	73	—
4-1/2 in. - D1-61-0734	4	92	—

Release Equipment

Pilot Oper Valve	Model or Part No.
Delayed discharge	FB34930
Immediate discharge	FB34931
Control Cabinets	
Multiple hazard	D46070, D46070-1
Manual release valve station	34500-B, 41546
Remote manual release station	B41874
Miscellaneous Equipment	
Pressure release - 1/2 in.	FA21915
Pressure release - 1 in.	FA21932

Safety relief, frangible disc type	A41597
Connection kit	A41892, A41893

Electrical Components - For Use With High Pressure Systems

Push-Button Stations

Pilot Oper Valve		Model or Part No.	
Control unit system, surface		24337-1, -2	
Control unit system, flush		24346-1, -2	
System Units for High or Low Pressure Systems			
Control and Release Equipment			
Manual-pilot valve stations, surface		1-010-0153	
Manual-pilot valve stations, flush		1-010-143	
Predischarge timer valve		C41753	
Discharge delay valve		41793	
Pilot control valve		C45982	
Three-way pilot valve		B41783	
Three-way pilot valve, pressure operated		C46316	
Shuttle valve		41400	
Switching valve		41395	
Manual-pilot valve timer station, surface		32399	
Manual-pilot valve timer station, flush		24748	
Manual-pilot valve		161708	
Door release		FS-41172	
Pressure-operated releases		FA-21915, -21932	
Pressure-operated pilot control valve		FD-41220	
Automatic mechanical discharge timer		C42129	
Automatic discharge delay timer		C41588	
Pneumatic release (rate of rise)		C41582	
Manual release valve station, push button operated		34500-B, 41546	
Size & Part No.	Check Valve Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 80	Schedule 40
1/2 in. - C04BG02P-8	1/2	5	9
3/4 in. - C04BG02P-12	3/4	10	18
1-3/4 in. - C04BG02P-16	1	10	—
1-1/4 in. - C04BG02P-20	1-1/4	27	—

1-1/2 in. - C04BG02P-24	1-1/2	31	—
2-1/2 in. - C04BG02P-32	2	83	—
(Check valves with suffix letters FF, FM, MF, or MM)			
B47778-1	1/2	—	11
B47778-2	3/4	—	28
161700	2	29	—
161701	2-1/2	33	—
161702	3	37	—
Size & Stock No.	Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 80	Schedule 40
1/2 in. - B45695-1, B45696-1	1/2	6.5	13
3/4 in. - B45695-2, B45696-2	3/4	14.5	25

Electrical Components - For Use With High or Low Pressure System Units

Push Button Station	Model No.
"On-Off" , surface	24302
"On-Off" , flush	24342
Momentary contacts, surface	24337-1, -2
Momentary contacts, flush	24346-1, -2
Pressure-operated switch	41644
Electrically operated solenoid valves:	
115 v, 25 cy, ac	A45927
24 v, dc or 115 v, 60 cy, ac	A7-061-0005
120 v, dc	A42444
250 v, dc	A45928
120 v, dc	A-7-061-0028
120 v, 50 Hz, ac	A-7-061-0015
120 v, 60 Hz, ac,	A-7-061-0006
24 v, dc	
120 v, 50/60 Hz	1-061-0157, 7-061-0421

Pressure Switches

Hazardous locations, Class I, Groups C and D: Class II , Groups E, F and G.

Part No. C42059 rated four pole, 30 amp, 250 v; Part No. C42068 rated two pole, 30 amp, 250 v.

Part No.	Blocking Valve Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 40	Schedule 80

161319	1/2	11	5
161320	3/4	16	9
161709	1	13	8
161710	1-1/4	21	14
161711	1-1/2	13	9
161712	2	20	16

Low-pressure system units.

Storage Tanks

All storage units provided with Listed refrigeration unit, controls, disconnect switch and safety vent assembly.

Metal-housed with rigid isocyanurate cellular foam and pre-finished aluminum skin. Models 1-001-0001 , 1-002-0001 , 1-002-0300 , 1-003-0001 , 1-003-0300 , 1-004-0001 , 1-004-0300 , 1-005-0001 , 1-005-0300 , 1-006-0001 , 1-006-0300 , 1-007-0001 , 1-008-0001 , 1-009-0001 ; 3/4, 1-1/4, 1-1/4, 2, 2, 2-3/4, 2-3/4, 3-3/4, 4, 6, 6, 8, 10 , 12 ton capacities respectively.

Prefinished aluminum skin, rigid isocyanurate cellular foam with metal shrouding over refrigeration unit and controls. Models 1-009-0002, -0003, -0004, -0005, -0007, -0008, -0009, -0010, -0011, -0012, -0013, -0014 ; 14 , 18 , 22 , 26 , 30 , 34 , 38 , 42 , 46 , 50 , 54 , 58 , 60 ton capacities respectively.

Pilot Equipment

Master Pilot Cabinet (Surface Mounted)

V	Part No.
120 v, ac - 60 Hz	7-001-0001
24 v, dc	7-001-0002
Selector Pilot Cabinet (Surface Mounted)	
120 v, ac - 60 Hz	7-001-0100
24 v, dc	7-001-0101
Master Pilot Cabinet (Flush Mounted)	
120 v, ac - 60 Hz	7-001-0006
24 v, dc	7-001-0007
Selector Pilot Cabinet (Flush Mounted)	
120 v, ac - 60 Hz	7-001-0105
24 v, dc	7-001-0106
Hosereel Master Pilot Cabinet (Surface Mounted)	
120 v, ac - 60 Hz	7-001-0011
24 v, dc	7-001-0012
Hosereel Selector Pilot Cabinet (Surface Mounted)	
120 v, ac - 60 Hz	7-001-0110
24 v, dc	7-001-0111
3-Way Solenoid Valves	
120 v, ac - 60 Hz	5-050-0100

24 v, dc	5-050-0101
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Electrical Components - For Use With Low Pressure Systems

Part Name	Part No.
Push-button station;	
momentary contact,	
single light, 120 v, ac, dc	4-003-0001
250 v, dc	4-003-0010
24 v, dc	4-003-0002
Miscellaneous Equipment	
1/4 in. Pressure regulator	1-011-0001, 1-011-0002
1/2 in. Pressure regulator	1-011-0007, 1-011-0008
1/2 in. Backflow check valve	1-023-0301
1 in. Check valve	1-023-0303
1/2 in. Relief valve 350 PSI	1-023-0001
1/2 in. Relief valve 250 PSI	1-023-0002
1/2 in. Relief valve 275 PSI	1-023-0003
1/2 in. Relief valve 375 PSI	1-023-0004
1/2 in. Relief valve 450 PSI	1-023-0005

Manual Shut-Off Valves

Model No.	Nom Pipe Size In.	Equivalent Length Ft	
		Schedule 80	Schedule 40
1-1/2 in. - 1-020-0001, -0002	1-1/2	13	19
2 in. - 1-020-0003, -0004	2	35	49
3 in. - 1-020-0005, -0006	3	56	75
4 in. - 1-020-0007, -0008	4	78	102
6 in. - 1-020-0009, -0010	6	123	160
8 in. - 1-020-0011, -0012	8	216	274
Master Valves			
1/2 in. - 1-021-0001, -0002,	1/2	6	12
-0003			
3/4 in. - 1-021-0004, -0005,	3/4	12	20
-0006			
1 in. - 1-021-0007, -0008,	1	7	12
-0009			
1-1/4 in. - 1-021-0010, -0011,			

-0012	1-1/4	15	23
1-1/2 in. - 1-021-0013, -0014,			
-0015	1-1/2	13	19
2 in. - 1-021-0016, -0017,			
-0018	2	35	49
3 in. - 1-021-0019, -0020			
4 in. - 1-021-0021, -0022			
6 in. - 1-021-0023, -0024			
8 in. - 1-021-0024, -0025			
Selector Valves			
1/2 in. - 1-022-0001, -0002,			
-0003	1/2	6	12
3/4 in. - 1-022-0004, -0005,			
-0006	3/4	12	20
1 in. - 1-022-0007, -0008,			
-0009	1	7	12
1-1/4 in. - 1-022-0010, -0011,			
-0012	1-1/4	15	23
1-1/2 in. - 1-022-0013, -0014,			
-0015	1-1/2	13	19
2 in. - 1-022-0016, -0017,			
-0018	2	35	49
3 in. - 1-022-0019, -0020			
4 in. - 1-022-0021, -0022			
6 in. - 1-022-0023, -0024			
8 in. - 1-022-0025, -0026			

Last Updated on 2006-08-21

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