



FILE NO.:	35.52
DATE:	December 15, 2007
SUPERSEDES:	35.52
DATE:	December 15, 2001

SUCTION GUIDES - MODEL SG

SUBMITTAL

JOB: _____	REPRESENTATIVE: _____
_____	ORDER NO: _____ DATE: _____
ENGINEER: _____	SUBMITTED BY: _____ DATE: _____
CONTRACTOR: _____	APPROVED BY: _____ DATE: _____

MODEL NUMBER	CONNECTION SIZES 125 lb. A.S.A. FLANGED		QUANTITY REQUIRED	IDENTIFICATION
	INLET FROM SYSTEM	OUTLET TO PUMP		

MATERIALS OF CONSTRUCTION	
Body	Cast Iron
Strainer	Stainless Steel, 0.125" (3mm) Perf.
Start-Up Strainer (remove after 1week)	Fine Mesh Galvanized Steel
Guide Vanes	Cast Iron
Inlet Gauge Tapping	1/4" NPT - Plugged

MAXIMUM WORKING PRESSURE: 175 psig (12 bars)
MAXIMUM OPERATING TEMPERATURE: 300°F (150°C)
OPTIONS:

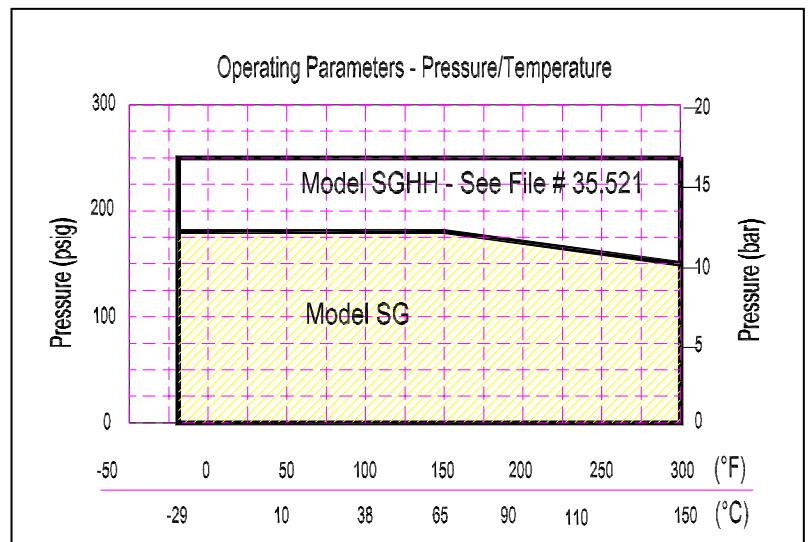
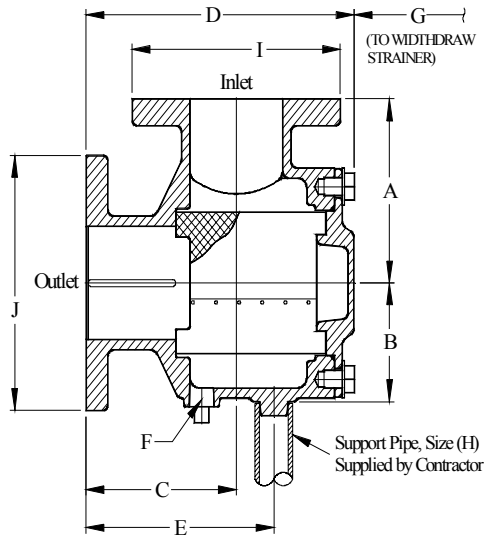
PERFORMANCE DATA

MODEL	Velocity in feet per second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
Pressure Drop in Feet (m) of Water @ Flow in USgpm (l/s)								
SG-215	ft (m) @	0.05 (0.02)	0.08 (0.02)	0.13 (0.04)	0.19 (0.06)	0.35 (0.11)	0.52 (0.16)	0.77 (0.23)
	Usgpm (l/s)	19 (1.2)	25 (1.6)	32 (2.0)	38 (2.4)	52 (3.3)	63 (4.0)	77 (4.9)
SG-22	ft (m) @	0.11 (0.03)	0.20 (0.06)	0.32 (0.10)	0.43 (0.13)	0.80 (0.25)	1.28 (0.40)	1.72 (0.54)
	Usgpm (l/s)	32 (2.0)	43 (2.7)	54 (3.4)	64 (4.0)	86 (5.4)	108 (6.8)	128 (8.1)
SG-252	ft (m) @	0.18 (0.05)	0.32 (0.10)	0.50 (0.15)	0.72 (0.22)	1.28 (0.39)	2.00 (0.61)	2.88 (0.88)
	Usgpm (l/s)	45 (2.8)	50 (3.2)	75 (4.7)	90 (5.7)	120 (7.6)	150 (9.5)	180 (11.4)
SG-32	ft (m) @	0.20 (0.06)	0.35 (0.11)	0.55 (0.17)	0.80 (0.24)	1.42 (0.43)	2.20 (0.67)	3.15 (0.96)
	Usgpm (l/s)	70 (4.4)	92 (5.8)	115 (7.3)	138 (8.7)	185 (11.7)	230 (14.5)	276 (17.4)
SG-33	ft (m) @	0.17 (0.05)	0.29 (0.09)	0.47 (0.14)	0.68 (0.21)	1.20 (0.37)	1.90 (0.58)	2.75 (0.84)
	Usgpm (l/s)	118 (7.4)	155 (9.8)	198 (12.5)	238 (15.0)	315 (19.9)	396 (25.0)	475 (30.0)
SG-44	ft (m) @	0.23 (0.07)	0.41 (0.13)	0.67 (0.20)	0.95 (0.29)	1.70 (0.52)	2.65 (0.81)	3.80 (1.16)
	Usgpm (l/s)	187 (11.8)	250 (15.8)	315 (19.9)	375 (23.7)	500 (31.5)	625 (39.4)	750 (47.3)
SG-55	ft (m) @	0.22 (0.07)	0.38 (0.12)	0.60 (0.18)	0.86 (0.26)	1.54 (0.47)	2.40 (0.73)	3.45 (1.05)
	Usgpm (l/s)	270 (17.0)	360 (22.7)	450 (28.4)	540 (34.1)	720 (45.4)	900 (56.8)	1080 (68.1)
SG-65	ft (m) @	0.21 (0.06)	0.37 (0.11)	0.58 (0.18)	0.85 (0.26)	1.50 (0.46)	2.30 (0.70)	3.35 (1.02)
	Usgpm (l/s)	470 (29.7)	625 (39.4)	780 (49.2)	940 (59.3)	1250 (78.9)	1550 (97.8)	1870 (118.0)
SG-66	ft (m) @	0.26 (0.08)	0.46 (0.14)	0.73 (0.22)	1.03 (0.31)	1.85 (0.56)	2.92 (0.89)	4.20 (1.28)
	Usgpm (l/s)	740 (46.7)	980 (61.8)	1230 (77.6)	1480 (93.4)	1960 (123.7)	2450 (154.6)	2940 (185.5)
SG-86	ft (m) @	0.25 (0.08)	0.44 (0.13)	0.72 (0.22)	1.02 (0.31)	1.81 (0.55)	2.80 (0.85)	4.00 (1.22)
	Usgpm (l/s)	1080 (68.1)	1400 (88.3)	1750 (110.4)	2100 (132.5)	2800 (176.7)	3500 (220.8)	4200 (265.0)
SG-88	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-108	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-1010	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-1210	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-1212	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-1412	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-1414	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)
SG-1614	ft (m) @	0.28 (0.09)	0.58 (0.18)	0.92 (0.28)	1.23 (0.38)	2.13 (0.65)	3.50 (1.07)	5.30 (1.62)
	Usgpm (l/s)	1440 (90.9)	1920 (121.1)	2400 (151.4)	2880 (181.7)	3840 (242.3)	4800 (302.8)	5760 (363.4)

DIMENSIONAL DATA SG

MODEL	Connection Size		Strainer Free Sq. ins (Sq. cm)	DIMENSIONS in Inches (mm)										Weight lbs (kg)
	System	Pump		A	B	C	D	E	F	G	H	I	J	
SG-215	2 (51)	1.5 (38)	34 (222)	4.50 (114)	3.07 (78)	8.63 (219)	12.63 (321)	9.84 (250)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	5.00 (127)	31 (14.1)
SG-22	2 (51)	2 (51)	34 (222)	4.50 (114)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	6.00 (152)	26 (11.8)
SG-252	2.5 (64)	2 (51)	34 (222)	5.00 (127)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	7.00 (178)	6.00 (152)	29 (13.2)
SG-32	3 (76)	2 (51)	34 (222)	5.50 (140)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	7.50 (191)	6.00 (152)	31 (14.1)
SG-2525	2.5 (64)	2.5 (64)	34 (222)	4.90 (124)	3.07 (78)	4.90 (124)	7.50 (191)	5.86 (149)	0.50 (13)	4.75 (121)	1.00 (25)	7.12 (181)	7.12 (181)	34 (15.4)
SG-325	3 (76)	2.5 (64)	34 (222)	5.50 (140)	3.07 (78)	4.90 (124)	7.50 (191)	5.86 (149)	0.50 (13)	4.75 (121)	1.00 (25)	7.50 (191)	7.12 (181)	35 (15.9)
SG-33	3 (76)	3 (76)	44 (282)	5.40 (137)	3.63 (92)	5.40 (137)	9.88 (251)	7.00 (178)	0.75 (19)	5.50 (140)	1.00 (25)	7.81 (198)	7.81 (198)	45 (20.4)
SG-43	4 (102)	3 (76)	44 (282)	6.50 (165)	3.63 (92)	5.90 (150)	10.38 (264)	7.50 (191)	0.75 (19)	5.50 (140)	1.00 (25)	9.00 (229)	7.81 (198)	53 (24.0)
SG-44	4 (102)	4 (102)	79 (511)	6.50 (165)	4.19 (106)	6.50 (165)	11.75 (298)	8.13 (206)	0.75 (19)	7.00 (178)	1.25 (32)	9.00 (229)	9.00 (229)	72 (32.7)
SG-54	5 (127)	4 (102)	79 (511)	7.44 (189)	4.19 (106)	6.50 (165)	11.75 (298)	8.13 (206)	0.75 (19)	7.00 (178)	1.25 (32)	10.00 (254)	9.00 (229)	79 (35.8)
SG-64	6 (152)	4 (102)	79 (511)	8.03 (204)	4.19 (106)	7.50 (191)	12.75 (324)	9.13 (232)	0.75 (19)	7.00 (178)	1.25 (32)	11.00 (279)	9.00 (229)	87 (39.5)
SG-55	5 (127)	5 (127)	111 (719)	7.47 (190)	4.81 (122)	7.47 (190)	13.50 (343)	9.47 (241)	1.00 (25)	8.00 (203)	1.25 (32)	10.00 (254)	10.00 (254)	99 (44.9)
SG-65	6 (152)	5 (127)	111 (719)	8.00 (203)	4.81 (122)	7.47 (190)	13.50 (343)	9.47 (241)	1.00 (25)	8.00 (203)	1.25 (32)	11.15 (283)	10.00 (254)	103 (46.7)
SG-66	6 (152)	6 (152)	120 (775)	8.00 (203)	5.71 (145)	8.00 (203)	14.75 (375)	10.19 (259)	1.00 (25)	9.25 (235)	2.00 (51)	11.15 (283)	11.15 (283)	141 (63.9)
SG-86	8 (203)	6 (152)	120 (775)	9.00 (229)	5.71 (145)	10.00 (254)	16.75 (425)	12.19 (310)	1.00 (25)	9.25 (235)	2.00 (51)	13.50 (343)	11.15 (283)	180 (81.6)
SG-88	8 (203)	8 (203)	273 (1760)	8.93 (227)	7.00 (178)	10.28 (261)	18.75 (476)	13.42 (341)	1.00 (25)	12.25 (311)	2.00 (51)	13.50 (343)	13.50 (343)	213 (96.6)
SG-108	10 (254)	8 (203)	273 (1760)	10.93 (278)	7.00 (178)	12.78 (325)	21.25 (540)	15.92 (404)	1.00 (25)	12.25 (311)	2.00 (51)	16.00 (406)	13.50 (343)	246 (111.6)
SG-1010	10 (254)	10 (254)	538 (3474)	11.43 (290)	8.13 (207)	12.72 (323)	23.25 (591)	16.85 (428)	1.00 (25)	15.00 (381)	2.00 (51)	16.00 (406)	16.00 (406)	349 (158.3)
SG-1210	12 (305)	10 (254)	538 (3474)	13.00 (330)	8.13 (207)	15.72 (399)	26.25 (667)	19.85 (504)	1.00 (25)	15.00 (381)	2.00 (51)	19.00 (483)	16.00 (406)	390 (176.9)
SG-1212	12 (305)	12 (305)	753 (4861)	15.30 (389)	10.76 (273)	14.18 (360)	27.50 (699)	20.45 (519)	1.00 (25)	19.00 (483)	2.00 (51)	19.00 (483)	19.00 (483)	641 (290.7)
SG-1412	14 (356)	12 (305)	753 (4861)	16.00 (406)	10.76 (273)	14.18 (360)	27.50 (699)	20.45 (519)	1.00 (25)	19.00 (483)	2.00 (51)	21.00 (533)	19.00 (483)	637 (288.9)
SG-1414	14 (356)	14 (356)	997 (6433)	14.00 (356)	11.00 (279)	14.00 (356)	28.00 (711)	17.50 (445)	2.00 (51)	21.00 (533)	2.00 (51)	21.00 (533)	21.00 (533)	710 (322.0)
SG-1614	16 (406)	14 (356)	997 (6433)	14.00 (356)	12.00 (305)	15.00 (381)	27.88 (708)	17.50 (445)	2.00 (51)	21.00 (533)	2.00 (51)	23.50 (597)	21.00 (533)	750 (340.1)

Dimensions and weights are for reference only. Please allow +/- 0.25" (6mm) dimensional tolerance. Contact the factory for certified dimension prints.



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