

MODEL SGG SUCTION GUIDES | SUBMITTAL

File No: 35.520
 Date: AUGUST 12, 2024
 Supersedes: 35.520
 Date: FEBRUARY 08, 2024

Job: _____ Representative: _____

Ordered by: _____ Date: _____

Engineer: _____ Submitted by: _____ Date: _____

Contractor: _____ Approved by: _____ Date: _____

MODEL NUMBER	CONNECTION SIZES		QUANTITY REQUIRED	IDENTIFICATION
	GROOVED INLET FROM SYSTEM	125 LB. FLANGED OUTLET TO PUMP		

MATERIALS OF CONSTRUCTION

Body: Ductile iron A536 grade 65-45-12
Strainer*: Stainless steel, 0.125" (3 mm) perf.
Start-up strainer (remove after 24 hrs): Fine mesh galvanized steel
Guide vanes: Ductile iron A536 grade 65-45-12
Inlet gauge tapping: 1/4" NPT - plugged

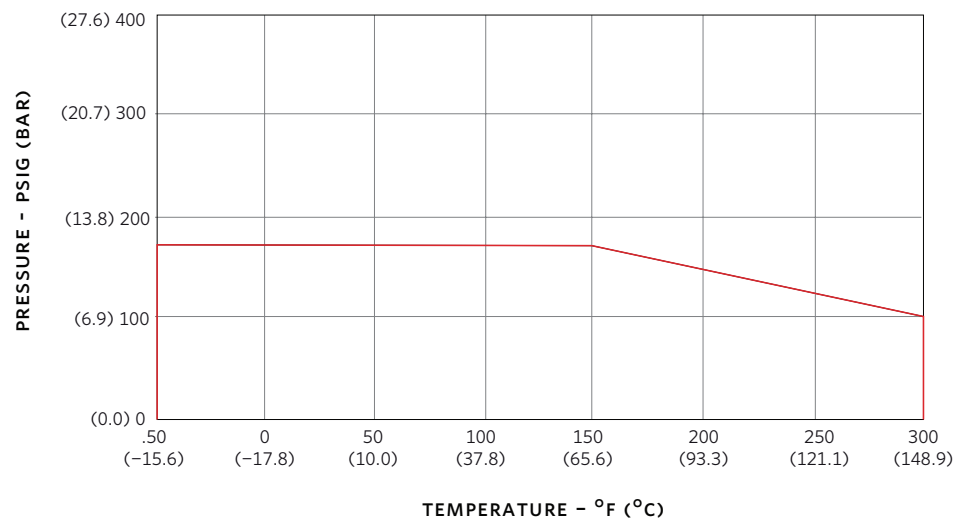
* SGG-2515, SGG-42, SGG-425 and SGG-63 have 0.188" holes in strainer

MAXIMUM PUMP OPERATING CONDITIONS

Maximum pressure: 175 PSI
Maximum temperature: 300°F

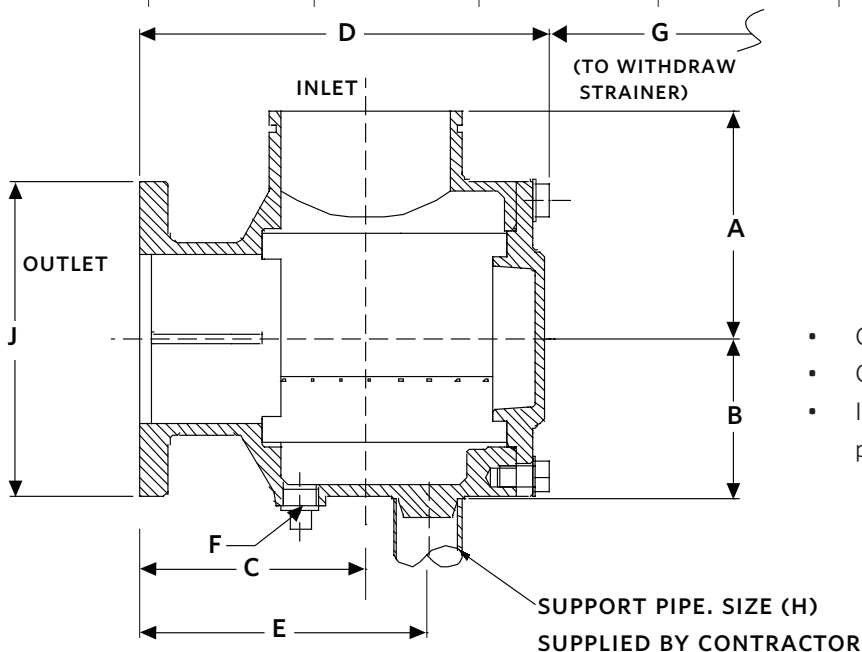
OPTIONS

PRESSURE TEMPERATURE LIMITS



PRESSURE DROP - FT (M) OF WATER @FLOW IN USGPM (L/S)

MODEL	VELOCITY in ft/s (m/s)						
	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
SGG-22							
SGG-252	0.11(0.03) @32(2.0)	0.20(0.06) @43(2.7)	0.32(0.10) @54(3.4)	0.43(0.13) @64(4.0)	0.80(0.25) @84(5.3)	1.28(0.40) @108(6.8)	1.72(0.54) @128(8.1)
SGG-32							
SGG-2525	0.18(0.05) @45(2.8)	0.32(0.10) @50(3.2)	0.50(0.15) @75(4.7)	0.72(0.22) @90(5.7)	1.28(0.39) @120(7.6)	2.00(0.61) @150(9.5)	2.88(0.88) @180(11.4)
SGG-325							
SGG-2515	0.20(0.06) @70(4.4)	0.35(0.11) @92(5.8)	0.55(0.17) @115(7.3)	0.80(0.24) @138(8.7)	1.42(0.43) @185(11.7)	2.20(0.67) @230(14.5)	3.15(0.96) @276(17.4)
SGG-33							
SGG-43							
SGG-42							
SGG-425							
SGG-44	0.17(0.05) @118(7.4)	0.29(0.09) @155(9.8)	0.47(0.14) @198(12.5)	0.68(0.21) @238(15.0)	1.20(0.37) @315(19.9)	1.90(0.58) @396(25.0)	2.75(0.84) @475(30.0)
SGG-54							
SGG-64							
SGG-55	0.23(0.07) @187(11.8)	0.41(0.13) @250(15.8)	0.67(0.20) @315(19.9)	0.95(0.29) @375(23.7)	1.70(0.52) @500(31.5)	2.65(0.81) @625(39.4)	3.80(1.16) @750(47.3)
SGG-65							
SGG-63	0.23(0.07) @270(17.0)	0.38(0.12) @360(22.7)	0.60(0.18) @450(28.4)	0.86(0.26) @540(34.1)	1.54(0.47) @720(45.4)	2.40(0.73) @900(56.8)	3.45(1.05) @1080(68.1)
SGG-66							
SGG-86							
SGG-84							
SGG-85	0.21(0.06) @470(29.7)	0.37(0.11) @625(39.4)	0.58(0.18) @780(49.2)	0.85(0.26) @940(59.3)	1.50(0.46) @1250(78.9)	2.30(0.70) @1550(97.8)	3.35(1.02) @1870(118.0)
SGG-88							
SGG-108							
SGG-104	0.26(0.08) @740(46.7)	0.46(0.14) @980(61.8)	0.73(0.22) @1230(77.6)	1.03(0.31) @1480(93.4)	1.85(0.56) @1960(123.7)	2.92(0.89) @2450(154.6)	4.20(1.28) @2940(185.5)
SGG-1010							
SGG-1210							
SGG-1212	0.25(0.08) @1080(68.1)	0.44(0.13) @1400(88.3)	0.72(0.22) @1750(110.4)	1.02(0.31) @2100(132.5)	1.81(0.55) @2800(176.7)	2.80(0.85) @3500(220.8)	4.00(1.22) @4200(265.0)
SGG-1412							



- Companion flanges are not included.
- Grooved pipe fittings are not included.
- Inlet groove is compatible with standard cut groove pipe fittings, such as from Anvil or Victaulic.

DIMENSIONAL DATA SGG

MODEL NUMBER	PART NUMBER	RATING	INLET	OUTLET	STRAINER FREE AREA in ² (cm ²)	DIMENSIONS in inches (mm)										WEIGHT lbs (kg)
						A	B	C	D	E	F	G	ØH	ØI	ØJ	
SGG-2515	546860-034	ANSI 125	2.50 (64)	1.50 (38)	44.83 (289)	5.92 (150)	3.63 (92)	6.00 (152)	10.34 (263)	7.60 (193)	0.75 (19)	5.50 (140)	0.95 (24)	-	5.12 (130)	19.88 (9.0)
SGG-22	546860-014	ANSI 125	2.00 (51)	2.00 (51)	31.79 (205)	4.50 (114)	3.07 (78)	4.50 (114)	8.35 (212)	5.71 (145)	0.50 (13)	4.75 (121)	0.95 (24)	-	6.00 (152)	22.00 (10.0)
SGG-252	546860-015	ANSI 125	2.50 (64)	2.00 (51)	31.79 (205)	5.00 (127)	3.06 (78)	4.50 (114)	8.35 (212)	5.71 (145)	0.50 (13)	4.75 (121)	0.95 (24)	-	6.00 (152)	22.00 (10.0)
SGG-32	546860-016	ANSI 125	3.00 (77)	2.00 (51)	31.79 (205)	5.50 (140)	3.07 (78)	4.50 (114)	8.35 (212)	5.71 (145)	0.50 (13)	4.75 (121)	0.95 (24)	-	6.00 (152)	23.00 (10.4)
SGG-42	546860-035	ANSI 125	4.00 (102)	2.00 (51)	74.91 (483)	6.96 (177)	4.20 (107)	6.96 (177)	12.04 (306)	8.59 (218)	0.75 (19)	7.00 (178)	1.13 (29)	-	6.30 (160)	35.03 (15.8)
SGG-2525	546860-017	ANSI 125	2.50 (64)	2.50 (64)	31.79 (205)	4.90 (124)	3.06 (78)	4.90 (124)	8.50 (216)	5.86 (149)	0.50 (13)	4.75 (121)	0.94 (24)	-	7.12 (181)	27.00 (12.2)
SGG-325	546860-018	ANSI 125	3.00 (77)	2.50 (64)	31.79 (205)	5.50 (140)	3.06 (78)	4.90 (124)	8.50 (216)	5.86 (149)	0.50 (13)	4.75 (121)	0.94 (24)	-	7.12 (181)	27.00 (12.2)
SGG-425	546860-036	ANSI 125	4.00 (102)	2.50 (64)	74.91 (483)	6.96 (177)	4.20 (107)	6.96 (177)	12.04 (306)	8.59 (218)	0.75 (19)	7.00 (178)	1.13 (29)	-	7.28 (185)	47.28 (21.5)
SGG-33	546860-019	ANSI 125	3.00 (77)	3.00 (77)	44.79 (289)	5.40 (137)	3.63 (92)	5.40 (137)	9.74 (247)	7.00 (178)	0.75 (19)	5.50 (140)	0.94 (24)	-	7.81 (198)	36.00 (16.3)
SGG-43	546860-020	ANSI 125	4.00 (102)	3.00 (77)	44.79 (289)	6.50 (165)	3.63 (92)	5.90 (150)	10.24 (260)	7.50 (191)	0.75 (19)	5.50 (140)	0.94 (24)	-	7.81 (198)	39.00 (17.6)
SGG-63	546860-037	ANSI 125	6.00 (152)	3.00 (77)	138.77 (895)	8.52 (216)	5.71 (145)	9.46 (240)	15.94 (405)	11.65 (296)	1.00 (25)	9.25 (235)	1.75 (44)	-	8.19 (208)	106.07 (48.1)
SGG-44	546860-021	ANSI 125	4.00 (102)	4.00 (102)	74.91 (483)	6.50 (165)	4.20 (107)	6.50 (165)	11.59 (294)	8.13 (207)	0.75 (19)	7.00 (178)	1.13 (29)	-	9.00 (229)	58.00 (26.3)
SGG-54	546860-022	ANSI 125	5.00 (127)	4.00 (102)	74.91 (483)	7.44 (189)	4.20 (107)	6.50 (165)	11.59 (294)	8.13 (207)	0.75 (19)	7.00 (178)	1.13 (29)	-	9.00 (229)	63.00 (28.6)
SGG-64	546860-023	ANSI 125	6.00 (152)	4.00 (102)	74.91 (483)	8.03 (204)	4.20 (107)	7.50 (191)	12.59 (320)	9.13 (232)	0.75 (19)	7.00 (178)	1.13 (29)	-	9.00 (229)	68.00 (30.8)
SGG-55	546860-024	ANSI 125	5.00 (127)	5.00 (127)	102.84 (663)	7.47 (190)	4.81 (122)	7.47 (190)	13.23 (336)	9.47 (241)	1.00 (25)	8.00 (203)	1.13 (29)	-	10.00 (254)	83.00 (37.6)
SGG-65	546860-025	ANSI 125	6.00 (152)	5.00 (127)	102.84 (663)	8.00 (203)	4.81 (122)	7.47 (190)	13.23 (336)	9.47 (241)	1.00 (25)	8.00 (203)	1.13 (29)	-	10.00 (254)	88.00 (39.9)
SGG-66	546860-026	ANSI 125	6.00 (152)	6.00 (152)	138.77 (895)	8.00 (203)	5.71 (145)	8.00 (203)	14.48 (368)	10.19 (259)	1.00 (25)	9.25 (235)	1.75 (44)	-	11.15 (283)	121.00 (57.9)
SGG-86	546860-027	ANSI 125	8.00 (203)	6.00 (152)	138.77 (895)	9.00 (229)	5.71 (145)	10.00 (254)	16.48 (419)	12.19 (310)	1.00 (25)	9.25 (235)	1.75 (44)	-	11.15 (283)	153.00 (61.2)
SGG-84	546880-060	ANSI 125	8.00 (203)	4.00 (102)	256.23 (1652)	10.00 (254)	6.99 (178)	11.87 (301)	20.21 (513)	15.02 (381)	1.00 (25)	12.25 (311)	1.75 (44)	-	9.00 (229)	156.09 (70.8)
SGG-85	546880-062	ANSI 125	8.00 (203)	5.00 (127)	256.23 (1653)	10.00 (254)	6.99 (178)	11.87 (301)	20.21 (513)	15.02 (381)	1.00 (25)	12.25 (311)	1.75 (44)	-	10.00 (254)	159.17 (72.2)
SGG-88	546860-028	ANSI 125	8.00 (203)	8.00 (203)	256.23 (1653)	8.93 (227)	6.99 (178)	10.28 (261)	18.62 (473)	13.43 (341)	1.00 (25)	12.25 (311)	1.75 (44)	-	13.50 (343)	183.00 (83.0)
SGG-108	546860-029	ANSI 125	10.00 (254)	8.00 (203)	256.23 (1653)	10.93 (278)	6.99 (178)	12.78 (325)	21.12 (536)	15.93 (405)	1.00 (25)	12.25 (311)	1.75 (44)	-	13.50 (343)	205.00 (93.0)
SGG-104	546880-064	ANSI 125	10.00 (254)	4.00 (102)	384.01 (2477)	11.50 (292)	8.13 (207)	14.29 (363)	24.54 (623)	18.35 (466)	1.00 (25)	15.21 (386)	1.75 (44)	-	9.00 (229)	250.00 (113.4)
SGG-1010	546860-030	ANSI 125	10.00 (254)	10.00 (254)	384.01 (2477)	11.43 (290)	8.13 (207)	12.72 (323)	22.97 (583)	16.78 (426)	1.00 (25)	15.00 (381)	1.75 (44)	-	16.00 (406)	308.00 (139.7)
SGG-1210	546860-031	ANSI 125	12.00 (305)	10.00 (254)	384.01 (2477)	13.00 (330)	8.13 (207)	15.72 (399)	25.97 (660)	19.78 (502)	1.00 (25)	15.00 (381)	1.75 (44)	-	16.00 (406)	330.00 (149.7)
SGG-1212	546860-032	ANSI 125	12.00 (305)	12.00 (305)	668.51 (4313)	15.30 (389)	10.76 (273)	14.18 (360)	27.47 (698)	20.45 (519)	1.00 (25)	19.00 (483)	1.75 (44)	-	19.00 (483)	556.00 (252.2)
SGG-1412	546860-033	ANSI 125	14.00 (356)	12.00 (305)	668.51 (4313)	16.00 (406)	10.76 (273)	14.18 (360)	27.47 (698)	20.45 (519)	1.00 (25)	19.00 (483)	1.75 (44)	-	19.00 (483)	597.00 (270.8)

- Dimensions and weights are for reference only. Dimensions are inches (mm) and weights are lbs (kg).
- Tolerance of ±0.125" (±3 mm) should be used
- For exact installation data, please write factory for certified dimensions

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