

SUCTION GUIDES MODEL SG | SUBMITTAL

File No: 35-52
 Date: FEBRUARY 08, 2024
 Supersedes: 35-52
 Date: JULY 30, 2019

Job: _____ Representative: _____
 _____ Ordered by: _____ Date: _____
 Engineer: _____ Submitted by: _____ Date: _____
 Contractor: _____ Approved by: _____ Date: _____

MODEL NUMBER	CONNECTION SIZES ANSI 125 FLANGED		QUANTITY REQUIRED	IDENTIFICATION
	INLET FROM SYSTEM NPTF	OUTLET TO PUMP		

MATERIALS OF CONSTRUCTION

- Body*:** Cast iron
- Strainer*:** Stainless steel, 0.125" (3 mm) perf.
- Start-up strainer (remove after 1 week):** Fine mesh galvanized steel
- Guide vanes:** Cast iron
- Inlet gauge tapping:** 1/4" NPT - plugged
- Magnetic plug:** Standard

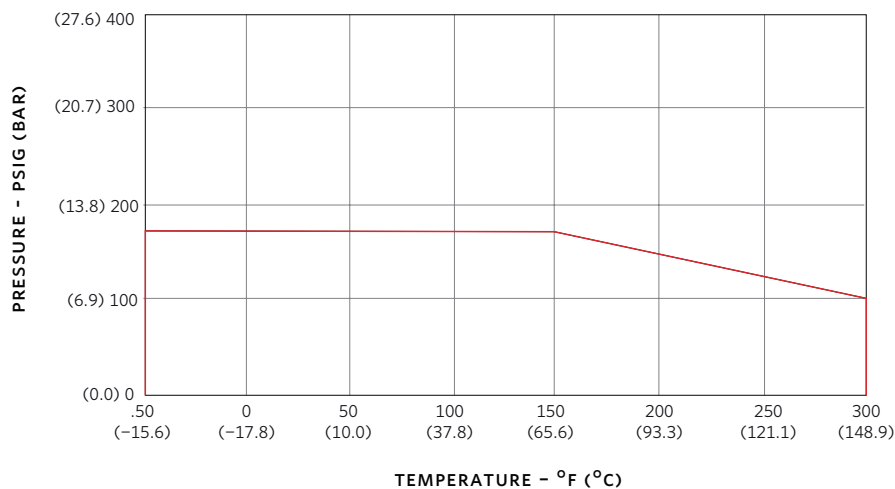
* SG-2515, SG-42, SG-425 and SG-63 have Ductile Iron Body and Guide Vanes with 0.188" holes in strainer

MAXIMUM PUMP OPERATING CONDITIONS

- Maximum pressure:** 175 PSI
- Maximum temperature:** 300°F

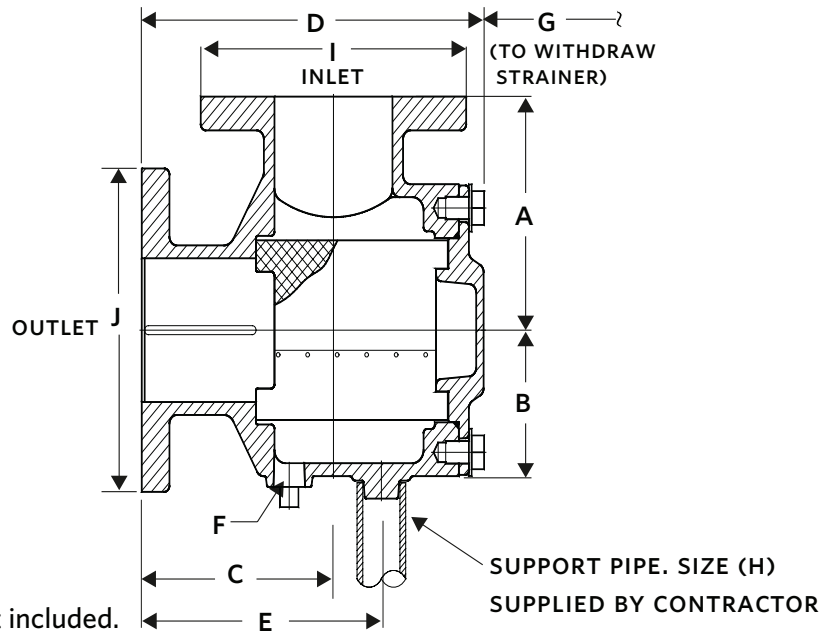
OPTIONS

PRESSURE TEMPERATURE LIMITS



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

MODEL	VELOCITY - 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)
SG-22							
SG-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) @ 86 (5.4)	1.28 (0.39) @ 108 (6.8)	1.72 (0.54) @ 128 (8.1)
SG-32							
SG-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)
SG-325							
SG-2515	0.20 (0.06) @ 70 (4.4)	0.35 (0.11) @ 92 (5.8)	0.55 (0.17) @ 115 (7.3)	0.80 (0.25) @ 138 (8.7)	1.42 (0.43) @ 1.42 (0.43)	2.20 (0.67) @ 230 (14.5)	3.15 (0.96) @ 276 (17.4)
SG-33							
SG-43							
SG-42							
SG-425							
SG-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)
SG-54							
SG-64							
SG-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)
SG-65							
SG-63	0.22 (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)
SG-66							
SG-86							
SG-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)
SG-88							
SG-108							
SG-1010	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)
SG-1210							
SG-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)
SG-1412							



Companion flanges not included.

DIMENSIONAL DATA SG																
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	
SG-2515	516860-034	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)	7.28 (185)	5.12 (130)	26.31 (11.9)
SG-22	516860-014	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)	6.00 (152)	26.00 (11.8)
SG-252	516860-015	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)	7.00 (178)	6.00 (152)	29.00 (13.2)
SG-32	516860-016	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)	7.81 (198)	6.00 (152)	31.00 (14.1)
SG-42	516860-035	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)	8.98 (228)	6.30 (160)	46.69 (21.1)
SG-2525	516860-017	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)	7.12 (181)	34.00 (15.4)
SG-325	516860-018	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)	7.81 (198)	7.12 (181)	35.00 (15.8)
SG-425	516860-036	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)	8.98 (228)	7.28 (185)	58.94 (26.7)
SG-33	516860-019	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)	7.81 (198)	45.00 (20.4)
SG-43	516860-020	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)	9.00 (229)	7.81 (198)	52.00 (23.6)
SG-63	516860-037	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)	11.12 (282)	8.19 (208)	107.45 (48.7)
SG-44	516860-021	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)	9.00 (229)	72.00 (32.7)
SG-54	516860-022	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)	10.00 (254)	9.00 (229)	79.00 (35.8)
SG-64	516860-023	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)	11.00 (279)	9.00 (229)	87.00 (39.5)
SG-55	516860-024	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)	10.00 (254)	99.00 (44.9)
SG-65	516860-025	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)	11.15 (283)	10.00 (254)	103.00 (46.7)
SG-66	516860-026	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)	11.15 (283)	141.00 (64.0)
SG-86	516860-027	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)	13.50 (343)	11.15 (283)	180.00 (81.6)
SG-85	516880-062	ANSI 125	8.00 (203)	5.00 (127)	256.23 (1653)	10.00 (254)	6.99 (178)	11.87 (301)	20.21 (513)	13.43 (341)	1.00 (25)	12.25 (311)	1.75 (44)	15.00 (381)	10.98 (279)	213.00 (96.6)
SG-88	516860-028	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)	13.50 (343)	213.00 (96.6)
SG-108	516860-029	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)	16.00 (406)	13.50 (343)	239.00 (108.4)
SG-1010	516860-030	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)	16.00 (406)	349.00 (158.3)
SG-1210	516860-031	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)	19.00 (483)	16.00 (406)	390.00 (176.9)
SG-1212	516860-032	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)	19.00 (483)	641.00 (290.8)
SG-1412	516860-033	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)	21.00 (533)	19.00 (483)	637.00 (289.0)

- 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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