

## SUCTION GUIDES MODEL SG | SUBMITTAL

File No: 35.52  
 Date: JULY 30, 2019  
 Supersedes: 35.52  
 Date: MAY 15, 2017

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

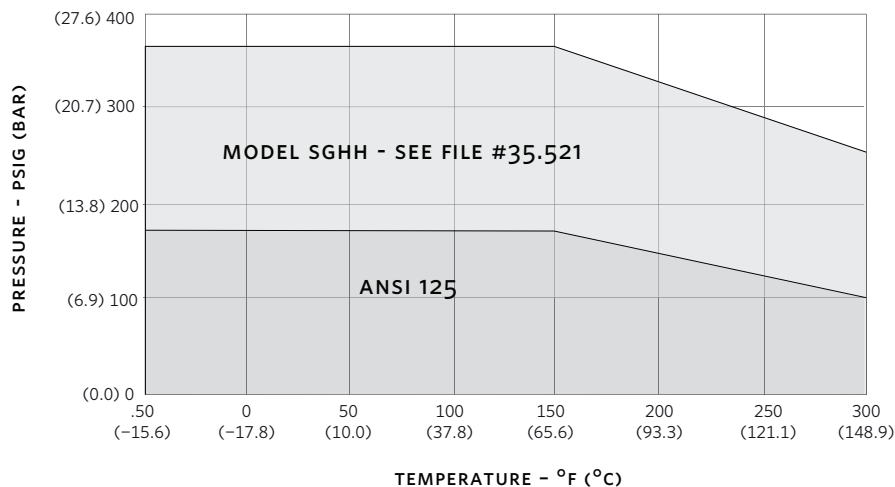
\* SG-2515, SG-42, SG-425 and SG-63 have Ductile Iron Body and Guide Vanes with 0.188" holes in strainer

### MAXIMUM PUMP OPERATING CONDITIONS

- ANSI 125**
- 175 psig at 150°F (12 bar at 65°C)
- 100 psig at 300°F (7 bar at 150°C)

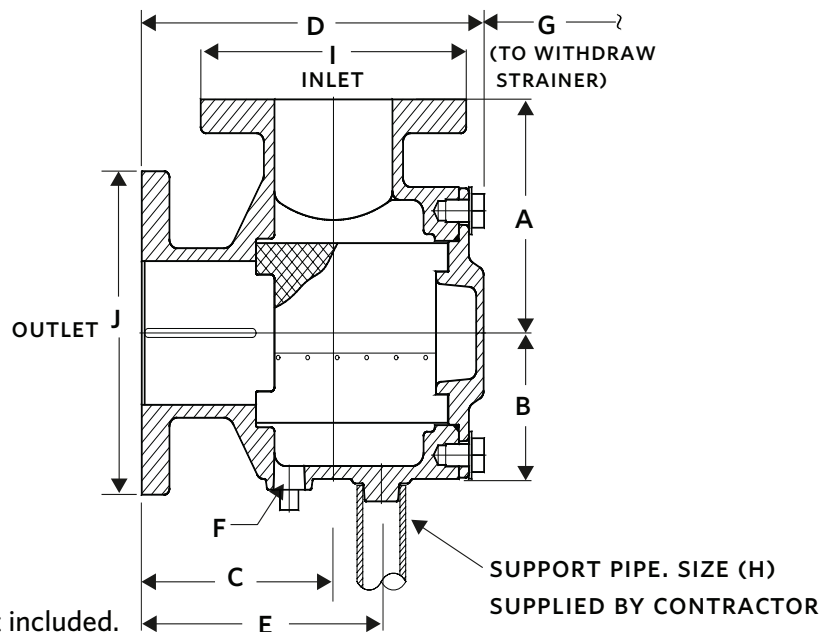
### OPTIONS

### 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)	0.32 (0.10) @ 54 (3.4)	0.80 (0.25) @ 86 (5.4)	0.80 (0.25) @ 86 (5.4)	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-33	0.20 (0.06) @ 70 (4.4)	0.35 (0.11) @ 92 (5.8)	0.55 (0.17) @ 115 (7.3)	0.55 (0.17) @ 115 (7.3)	1.42 (0.43) @ 1.42 (0.43)	2.20 (0.67) @ 230 (14.5)	3.15 (0.96) @ 276 (17.4)
SG-43							
SG-44							
SG-54	0.17 (0.05) @ 118 (7.4)	0.29 (0.09) @ 155 (9.8)	0.29 (0.09) @ 155 (9.8)	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-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)	2.65 (0.81) @ 625 (39.4)
SG-65							
SG-66	2.65 (0.81) @ 625 (39.4)	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-86							
SG-88	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-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 <sup>2</sup> (cm <sup>2</sup> )	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-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

**TORONTO**

23 BERTRAND AVENUE  
TORONTO, ONTARIO  
CANADA, M1L 2P3  
+1 416 755 2291

**BUFFALO**

93 EAST AVENUE  
NORTH TONAWANDA, NEW YORK  
U.S.A., 14120-6594  
+1 716 693 8813

**BIRMINGHAM**

HEYWOOD WHARF, MUCKLOW HILL  
HALESOWEN, WEST MIDLANDS  
UNITED KINGDOM, B62 8DJ  
+44 (0) 8444 145 145

**MANCHESTER**

WOLVERTON STREET  
MANCHESTER  
UNITED KINGDOM, M11 2ET  
+44 (0) 8444 145 145

**BANGALORE**

#59, FIRST FLOOR, 3RD MAIN  
MARGOSA ROAD, MALLESWARAM  
BANGALORE, INDIA, 560 003  
+91 (0) 80 4906 3555

**SHANGHAI**

UNIT 903, 888 NORTH SICHUAN RD.  
HONGKOU DISTRICT, SHANGHAI  
CHINA, 200085  
+86 (0) 21 5237 0909

**SÃO PAULO**

RUA JOSÉ SEMIÃO RODRIGUES AGOSTINHO,  
1370 GALPÃO 6 EMBU DAS ARTES  
SAO PAULO, BRAZIL  
+55 11 4785 1330

**LYON**

93 RUE DE LA VILLETTE  
LYON, 69003 FRANCE  
+33 (0) 420 102 625

**DUBAI**

LOB16, #611, JAFZA  
P.O. BOX 18226  
DUBAI - UNITED ARAB EMIRATES  
+971 4 887 6775

**MANNHEIM**

DYNAMOSTRASSE 13  
68165 MANNHEIM  
GERMANY  
+49 (0) 621 3999 9858