

## SUCTION GUIDES MODEL SG | SUBMITTAL

File No: 35.52  
 Date: AUGUST 12, 2024  
 Supersedes: 35.52  
 Date: FEBRUARY 08, 2024

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

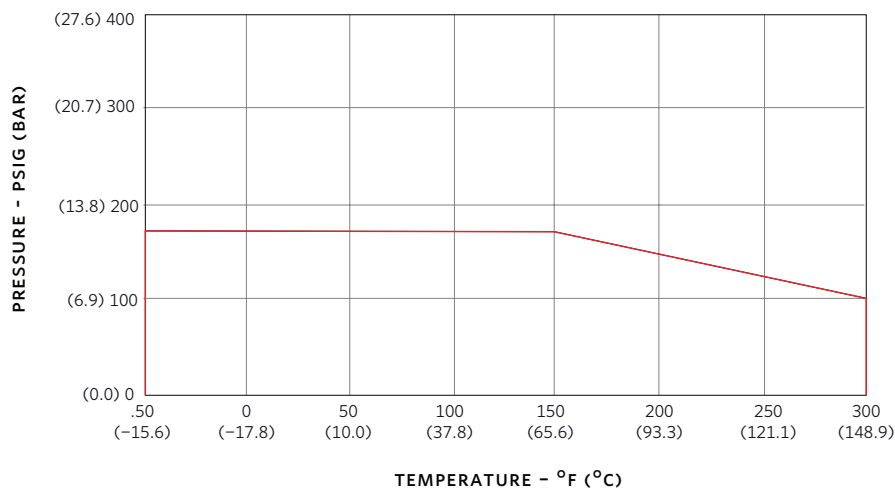
\* SG-2515, SG-42, SG-425 and SG-63 have Ductile Iron Body and Guide Vanes with 0.188" holes in strainer

### MAXIMUM PUMP OPERATING CONDITIONS

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

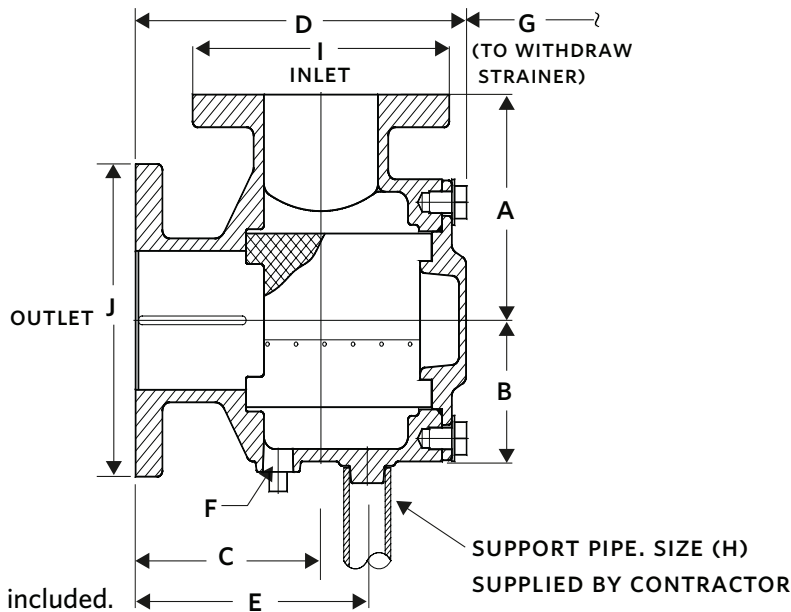
### OPTIONS

### 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-84	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-85							
SG-88							
SG-108							
SG-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)
SG-1010							
SG-1210	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-1212							
SG-1412							



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-84	516880-060	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)	13.50 (343)	9.00 (229)	180.56 (81.9)
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)	15.02 (381)	1.00 (25)	12.25 (311)	1.75 (44)	13.50 (343)	10.00 (254)	184.31 (83.6)
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-104	516880-064	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)	16.00 (406)	9.00 (229)	282.63 (128.2)
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

**DROITWICH SPA**

POINTON WAY, STONEBRIDGE CROSS  
BUSINESS PARK, DROITWICH SPA,  
WORCESTERSHIRE,  
UNITED KINGDOM, WR9 0LW  
+44 121 550 5333

**MANCHESTER**

WOLVERTON STREET, MANCHESTER  
UNITED KINGDOM, M11 2ET  
+44 161 223 2223

**BANGALORE**

#18, LEWIS WORKSPACE, 3<sup>RD</sup> FLOOR,  
OFF MILLERS - NANDIDURGA ROAD,  
JAYAMAHAL CBD, BENSON TOWN,  
BANGALORE, INDIA 560 046  
+91 80 4906 3555

**SHANGHAI**

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

**BEIJING**

ROOM 1612, NANYIN BUILDING NO.2  
NORTH EAST THRID RING ROAD  
CHAOYANG DISTRICT, BEIJING,  
CHINA 100027  
+86 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 4 20 10 26 21

**DUBAI**

JAFZA VIEW 19, OFFICE 402  
P.O. BOX 18226 JAFZA,  
DUBAI - UNITED ARAB EMIRATES  
+971 4 887 6775

**JIMBOLIA**

STR CALEA MOTILOR NR. 2C  
JIMBOLIA 305400, JUD.TIMIS  
ROMANIA  
+40 256 360 030

**FRANKFURT**

WESTERBACHSTRASSE 32,  
D-61476 KRONBERG IM TAUNUS  
GERMANY  
+49 6173 999 77 55

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