

**SUCTION GUIDES MODEL SG | SUBMITTAL**

File No: 35-52IEC  
 Date: FEBRUARY 08, 2024  
 Supersedes: 35-52IEC  
 Date: APRIL 08, 2020

Job: \_\_\_\_\_ Representative: \_\_\_\_\_  
 \_\_\_\_\_ Ordered by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Engineer: \_\_\_\_\_ Submitted by: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contractor: \_\_\_\_\_ Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

MODEL NUMBER	CONNECTION SIZES		QUANTITY REQUIRED	IDENTIFICATION
	INLET FROM SYSTEM BSPT	OUTLET TO PUMP		
		<input type="checkbox"/> PN 16 <input type="checkbox"/> PN 25		

**MATERIALS OF CONSTRUCTION**

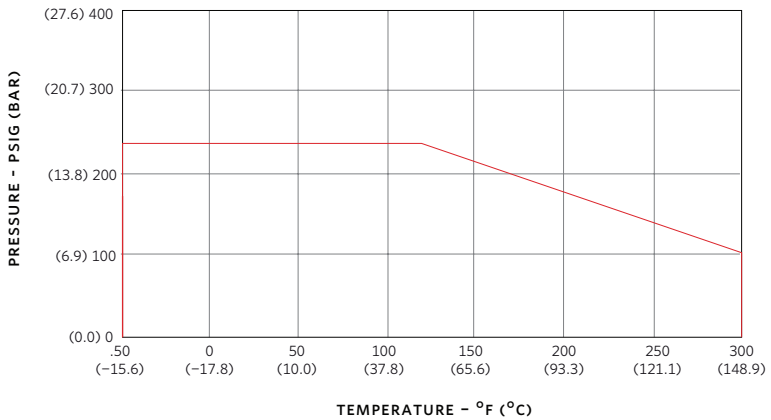
**Body\*:** Cast iron  
**Strainer\*:** Stainless steel, 3 mm (0.125") perf.  
**Start-up strainer (remove after 1 week):** Fine mesh  
 galvanized steel  
**Guide vanes:** Cast iron  
**Inlet gauge tapping:** 1/4" NPT - plugged  
 \* SG-2515, SG-42, SG-425 and SG-63 have Ductile Iron Body and Guide Vanes with 0.188" holes in strainer

**MAXIMUM PUMP OPERATING CONDITIONS**

**Maximum pressure:** 16 bar  
**Maximum temperature:** 150°C

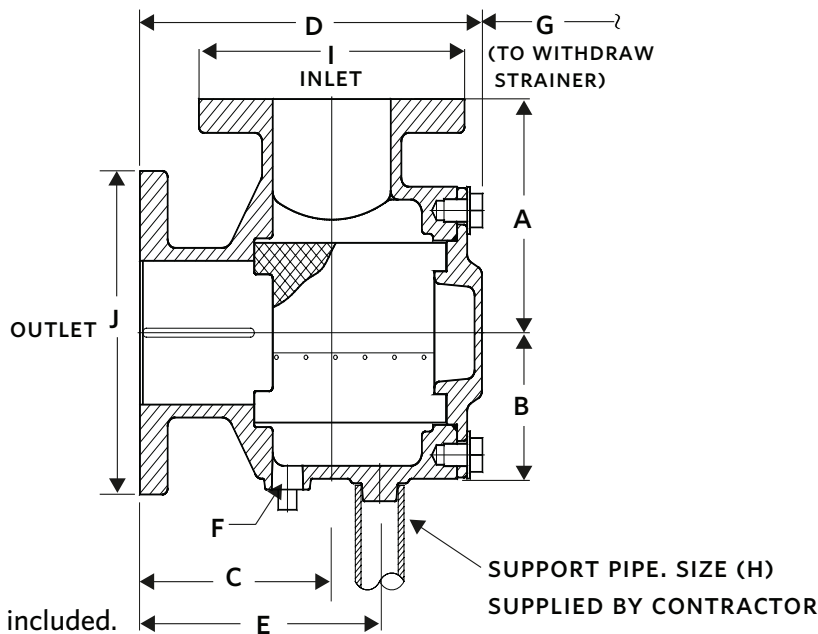
**OPTIONS**

**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)	0.20 (0.06)	0.32 (0.10)	0.43 (0.13)	0.80 (0.25)	1.28 (0.39)	1.72 (0.54)
SG-32	@ 32 (2.0)	@ 43 (2.7)	@ 54 (3.4)	@ 64 (4.0)	@ 86 (5.4)	@ 108 (6.8)	@ 128 (8.1)
SG-2525							
SG-325	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)
	@ 45 (2.8)	@ 50 (3.2)	@ 75 (4.7)	@ 90 (5.7)	@ 120 (7.6)	@ 150 (9.5)	@ 180 (11.4)
SG-2515							
SG-33	0.20 (0.06)	0.35 (0.11)	0.55 (0.17)	0.80 (0.25)	1.42 (0.43)	2.20 (0.67)	3.15 (0.96)
SG-43	@ 70 (4.4)	@ 92 (5.8)	@ 115 (7.3)	@ 138 (8.7)	@ 1.42 (0.43)	@ 230 (14.5)	@ 276 (17.4)
SG-42							
SG-425							
SG-44	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)
SG-54	@ 118 (7.4)	@ 155 (9.8)	@ 198 (12.5)	@ 238 (15.0)	@ 315 (19.9)	@ 396 (25.0)	@ 475 (30.0)
SG-64							
SG-55	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)
SG-65	@ 187 (11.8)	@ 250 (15.8)	@ 315 (19.9)	@ 375 (23.7)	@ 500 (31.5)	@ 625 (39.4)	@ 750 (47.3)
SG-63							
SG-66	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)
SG-86	@ 270 (17.0)	@ 360 (22.7)	@ 450 (28.4)	@ 540 (34.1)	@ 720 (45.4)	@ 900 (56.8)	@ 1080 (68.1)
SG-85							
SG-88	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)
SG-108	@ 470 (29.7)	@ 625 (39.4)	@ 780 (49.2)	@ 940 (59.3)	@ 1250 (78.9)	@ 1550 (97.8)	@ 1870 (118.0)
SG-1010	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)
SG-1210	@ 740 (46.7)	@ 980 (61.8)	@ 1230 (77.6)	@ 1480 (93.4)	@ 1960 (123.7)	@ 2450 (154.6)	@ 2940 (185.5)
SG-1212	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)
SG-1412	@ 1080 (68.1)	@ 1400 (88.3)	@ 1750 (110.4)	@ 2100 (132.5)	@ 2800 (176.7)	@ 3500 (220.8)	@ 4200 (265.0)



DIMENSIONAL DATA SG																	
MODEL NUMBER	PART NUMBER	RATING	INLET	OUTLET	STRAINER	DIMENSIONS in mm (inches)											WEIGHT
					FREE AREA	A	B	C	D	E	F	G	ØH	ØI	ØJ	kg (lbs)	
					cm <sup>2</sup> (in <sup>2</sup> )												
SG-2515	516860-534	PN 16	64 (2.50)	38 (1.50)	289 (44.83)	150 (5.92)	92 (3.63)	152 (6.00)	263 (10.34)	193 (7.60)	19 (0.75)	140 (5.50)	24 (0.95)	185 (7.28)	130 (5.12)	11.9 (26.31)	
SG-22	516860-514	PN 16	51 (2.00)	51 (2.00)	205 (31.79)	114 (4.50)	78 (3.06)	114 (4.50)	212 (8.35)	145 (5.71)	13 (0.50)	121 (4.75)	24 (0.95)	152 (6.00)	152 (6.00)	11.8 (26.00)	
SG-252	516860-515	PN 16	64 (2.50)	51 (2.00)	205 (31.79)	127 (5.00)	78 (3.06)	114 (4.50)	212 (8.35)	145 (5.71)	13 (0.50)	121 (4.75)	24 (0.95)	178 (7.00)	152 (6.00)	13.2 (29.00)	
SG-32	516860-516	PN 16	77 (3.00)	51 (2.00)	205 (31.79)	140 (5.50)	78 (3.06)	114 (4.50)	212 (8.35)	145 (5.71)	13 (0.50)	121 (4.75)	24 (0.95)	198 (7.81)	152 (6.00)	14.1 (31.00)	
SG-42	516860-535	PN 16	102 (4.00)	51 (2.00)	483 (74.91)	177 (6.96)	107 (4.20)	177 (6.96)	306 (12.04)	218 (8.59)	19 (0.75)	178 (7.00)	29 (1.13)	228 (8.98)	160 (6.30)	21.1 (46.69)	
SG-2525	516860-517	PN 16	64 (2.50)	64 (2.50)	205 (31.79)	124 (4.90)	78 (3.06)	124 (4.90)	216 (8.50)	149 (5.86)	13 (0.50)	121 (4.75)	24 (0.94)	181 (7.12)	181 (7.12)	15.4 (34.00)	
SG-325	516860-518	PN 16	77 (3.00)	64 (2.50)	205 (31.79)	140 (5.50)	78 (3.06)	124 (4.90)	216 (8.50)	149 (5.86)	13 (0.50)	121 (4.75)	24 (0.94)	198 (7.81)	181 (7.12)	15.8 (35.00)	
SG-425	516860-536	PN 16	102 (4.00)	64 (2.50)	483 (74.91)	177 (6.96)	107 (4.20)	177 (6.96)	306 (12.04)	218 (8.59)	19 (0.75)	178 (7.00)	29 (1.13)	228 (8.98)	185 (7.28)	26.7 (58.94)	
SG-33	516860-519	PN 16	77 (3.00)	77 (3.00)	289 (44.79)	137 (5.40)	92 (3.63)	137 (5.40)	247 (9.74)	178 (7.00)	19 (0.75)	140 (5.50)	24 (0.94)	198 (7.81)	198 (7.81)	20.4 (45.00)	
SG-43	516860-520	PN 16	102 (4.00)	77 (3.00)	289 (44.79)	165 (6.50)	92 (3.63)	150 (5.90)	260 (10.24)	191 (7.50)	19 (0.75)	140 (5.50)	24 (0.94)	229 (9.00)	198 (7.81)	23.6 (52.00)	
SG-63	516860-537	PN 16	152 (6.00)	77 (3.00)	895 (138.77)	216 (8.52)	145 (5.71)	240 (9.46)	405 (15.94)	296 (11.65)	25 (1.00)	178 (7.00)	44 (1.75)	282 (11.12)	208 (8.19)	48.7 (107.45)	
SG-44	516860-521	PN 16	102 (4.00)	102 (4.00)	483 (74.91)	165 (6.50)	107 (4.20)	165 (6.50)	294 (11.59)	207 (8.13)	19 (0.75)	178 (7.00)	29 (1.13)	229 (9.00)	229 (9.00)	32.7 (72.00)	
SG-54	516860-522	PN 16	127 (5.00)	102 (4.00)	483 (74.91)	189 (7.44)	107 (4.20)	165 (6.50)	294 (11.59)	207 (8.13)	19 (0.75)	178 (7.00)	29 (1.13)	254 (10.00)	229 (9.00)	35.8 (79.00)	
SG-64	516860-523	PN 16	152 (6.00)	102 (4.00)	483 (74.91)	204 (8.03)	107 (4.20)	191 (7.50)	320 (12.59)	232 (9.13)	19 (0.75)	178 (7.00)	29 (1.13)	279 (11.00)	229 (9.00)	39.5 (87.00)	
SG-55	516860-524	PN 16	127 (5.00)	127 (5.00)	663 (102.84)	190 (7.47)	122 (4.81)	190 (7.47)	336 (13.23)	241 (9.47)	25 (1.00)	203 (8.00)	29 (1.13)	254 (10.00)	254 (10.00)	44.9 (99.00)	
SG-65	516860-525	PN 16	152 (6.00)	127 (5.00)	663 (102.84)	203 (8.00)	122 (4.81)	190 (7.47)	336 (13.23)	241 (9.47)	25 (1.00)	203 (8.00)	29 (1.13)	283 (11.15)	254 (10.00)	46.7 (103.00)	
SG-66	516860-526	PN 16	152 (6.00)	152 (6.00)	895 (138.77)	203 (8.00)	145 (5.71)	203 (8.00)	368 (14.48)	259 (10.19)	25 (1.00)	235 (9.25)	44 (1.75)	283 (11.15)	283 (11.15)	64 (141.00)	
SG-86	516860-527	PN 16	203 (8.00)	152 (6.00)	895 (138.77)	229 (9.00)	145 (5.71)	254 (10.00)	419 (16.48)	310 (12.19)	25 (1.00)	235 (9.25)	44 (1.75)	343 (13.50)	283 (11.15)	81.6 (180.00)	
SG-85	516880-562	PN 16	203 (8.00)	127 (5.00)	1653 (256.23)	254 (10.00)	178 (6.99)	11.87 (301)	513 (20.21)	341 (13.43)	25 (1.00)	311 (12.25)	44 (1.75)	381 (15.00)	279 (10.98)	96.6 (213.00)	
SG-88	516860-528	PN 16	203 (8.00)	203 (8.00)	1653 (256.23)	227 (8.93)	178 (6.99)	261 (10.28)	473 (18.62)	341 (13.43)	25 (1.00)	311 (12.25)	44 (1.75)	343 (13.50)	343 (13.50)	96.6 (213.00)	
SG-108	516860-529	PN 16	254 (10.0)	203 (8.00)	1653 (256.23)	278 (10.93)	178 (6.99)	325 (12.78)	536 (21.12)	405 (15.93)	25 (1.00)	311 (12.25)	44 (1.75)	406 (16.00)	343 (13.50)	108.4 (239.00)	
SG-1010	516860-530	PN 16	254 (10.0)	254 (10.0)	2477 (384.01)	290 (11.43)	207 (8.13)	323 (12.72)	583 (22.97)	426 (16.78)	25 (1.00)	381 (15.00)	44 (1.75)	406 (16.00)	406 (16.00)	158.3 (349.00)	
SG-1210	516860-531	PN 16	305 (12.0)	254 (10.0)	2477 (384.01)	330 (13.00)	207 (8.13)	399 (15.72)	660 (25.97)	502 (19.78)	25 (1.00)	381 (15.00)	44 (1.75)	483 (19.00)	406 (16.00)	176.9 (390.00)	
SG-1212	516860-532	PN 16	305 (12.0)	305 (12.0)	4313 (668.51)	389 (15.30)	273 (10.76)	360 (14.18)	698 (27.47)	519 (20.45)	25 (1.00)	483 (19.00)	44 (1.75)	483 (19.00)	483 (19.00)	290.8 (641.00)	
SG-1412	516860-533	PN 16	356 (14.0)	305 (12.0)	4313 (668.51)	406 (16.00)	273 (10.76)	360 (14.18)	698 (27.47)	519 (20.45)	25 (1.00)	483 (19.00)	44 (1.75)	533 (21.00)	483 (19.00)	289.0 (637.00)	

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

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