

SUCTION GUIDES MODEL SG | SUBMITTAL

File No: 35.521EC
 Date: APRIL 08, 2020
 Supersedes: 35.521EC
 Date: DECEMBER 09, 2019

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

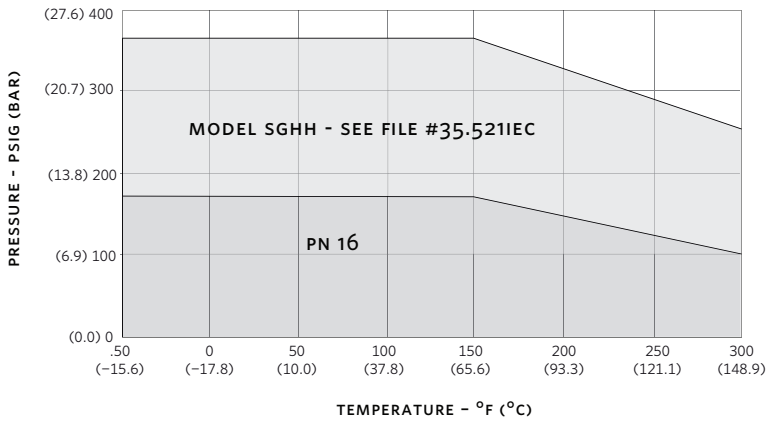
Inlet gauge tapping: 1/4" NPT - plugged
 * SG-2515, SG-42, SG-425 and SG-63 have Ductile Iron Body and Guide Vanes with 0.188" holes in strainer

MAXIMUM PUMP OPERATING CONDITIONS

PN 16
 12 bar at 65°C (175 psig at 150°F)

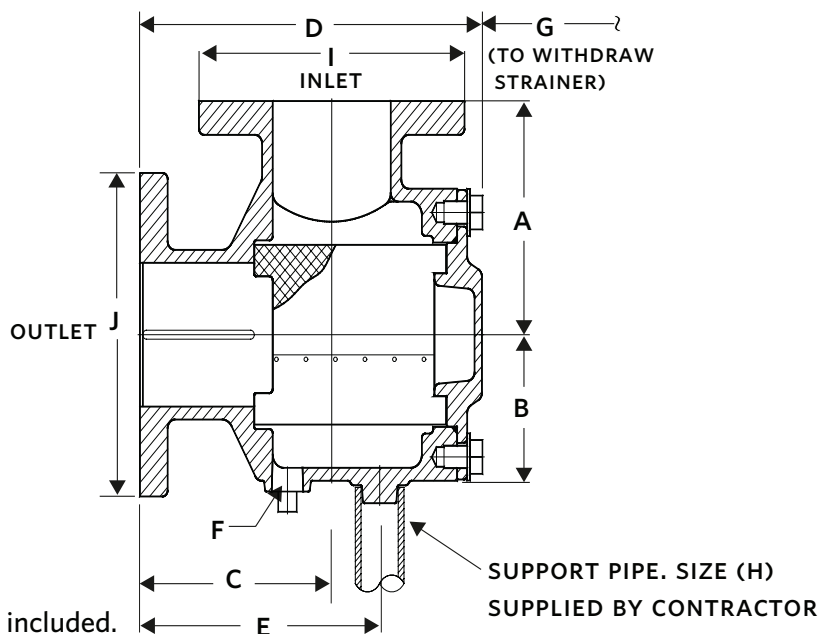
OPTIONS

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)	0.32 (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	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-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)	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							



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 ² (in ²)												
SG-2515	516860-034	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	516860-014	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	516860-015	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	516860-016	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	516860-035	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	516860-017	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	516860-018	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	516860-036	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	516860-019	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	516860-020	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	516860-037	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	516860-021	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	516860-022	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	516860-023	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	516860-024	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	516860-025	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	516860-026	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	516860-027	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 (180.0)	
SG-88	516860-028	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	516860-029	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	516860-030	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	516860-031	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	516860-032	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	516860-033	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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