

SUCTION GUIDES MODEL SGG | SUBMITTAL

File No: 35.5201EC
 Date: APRIL 08, 2020
 Supersedes: 35.5201EC
 Date: DECEMBER 09, 2019

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

MODEL NUMBER	CONNECTION SIZES		QUANTITY REQUIRED	IDENTIFICATION
	GROOVED INLET FROM SYSTEM	125 LB. FLANGED OUTLET TO PUMP		

MATERIALS OF CONSTRUCTION

Body: Ductile iron A536 grade 65-45-12
Strainer*: Stainless steel, 3 mm(0.125") perf.
Start-up strainer (remove after 24 hrs): Fine mesh galvanized steel
Guide vanes: Ductile iron A536 grade 65-45-12
Inlet gauge tapping: 1/4" NPT - plugged

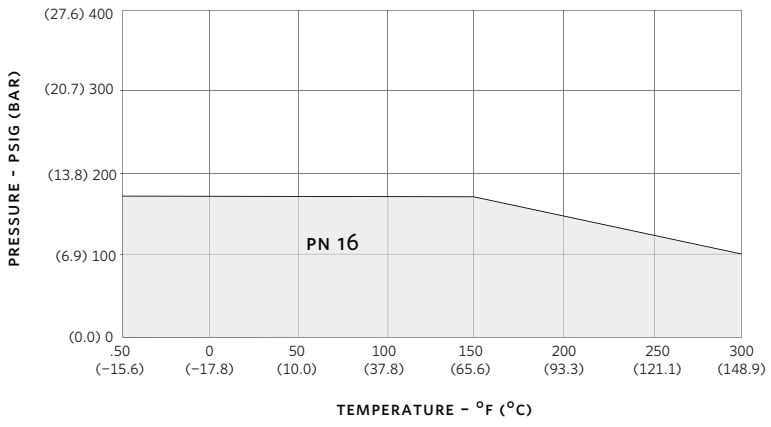
* SGG-2515, SGG-42, SGG-425 and SGG-63 have 0.188" holes in strainer

MAXIMUM PUMP OPERATING CONDITIONS

PN 16
 12 bar at 65°C (175 psig at 150°F)
 7 bar at 150°C (100 psig at 300°F)

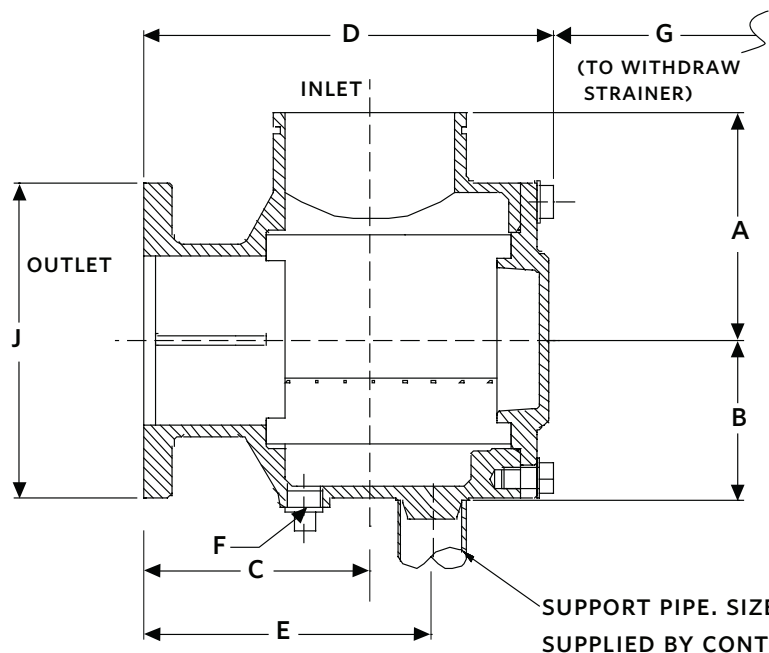
OPTIONS

PRESSURE TEMPERATURE LIMITS



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

MODEL	VELOCITY in 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)
SGG-22							
SGG-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(0.40) @108(6.8)	1.72(0.54) @128(8.1)
SGG-32							
SGG-2525							
SGG-325	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)
SGG-33							
SGG-43	0.20(0.06) @70(4.4)	0.35(0.11) @92(5.8)	0.55(0.17) @115(7.3)	0.80(0.24) @138(8.7)	1.42(0.43) @185(11.7)	2.20(0.67) @230(14.5)	3.15(0.96) @276(17.4)
SGG-44							
SGG-54	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)
SGG-64							
SGG-55							
SGG-65	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)
SGG-66							
SGG-86	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)
SGG-88							
SGG-108	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)
SGG-1010							
SGG-1210	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)
SGG-1212							
SGG-1412	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)



- Companion flanges are not included.
- Grooved pipe fittings are not included.
- Inlet groove is compatible with standard cut groove pipe fittings, such as from Anvil or Victaulic.

DIMENSIONAL DATA SGG																
MODEL NUMBER	PART NUMBER	RATING	INLET	OUTLET	STRAINER FREE AREA cm ² (in ²)	DIMENSIONS in mm (inches)										WEIGHT kg (lbs)
						A	B	C	D	E	F	G	ØH	ØI	ØJ	
SGG-2515	546860-034	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)	-	130 (5.12)	9.00 (19.88)
SGG-22	546860-014	PN 16	51 (2.00)	51 (2.00)	205 (31.79)	114 (4.50)	78 (3.07)	114 (4.50)	212 (8.35)	145 (5.71)	13 (0.50)	121 (4.75)	24 (0.95)	-	152 (6.00)	10.0 (22.00)
SGG-252	546860-015	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)	-	152 (6.00)	10.0 (22.00)
SGG-32	546860-016	PN 16	77 (3.00)	51 (2.00)	205 (31.79)	140 (5.50)	78 (3.07)	114 (4.50)	212 (8.35)	145 (5.71)	13 (0.50)	121 (4.75)	24 (0.95)	-	152 (6.00)	10.4 (23.00)
SGG-42	546860-035	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)	-	160 (6.30)	15.8 (35.03)
SGG-2525	546860-017	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)	12.2 (27.00)
SGG-325	546860-018	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)	-	181 (7.12)	12.2 (27.00)
SGG-425	546860-036	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)	-	7.28 (185)	21.5 (47.28)
SGG-33	546860-019	PN 16	77 (3.00)	77 (3.00)	289 (44.83)	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)	16.3 (36.00)
SGG-43	546860-020	PN 16	102 (4.00)	77 (3.00)	289 (44.83)	165 (6.50)	92 (3.63)	150 (5.90)	260 (10.24)	191 (7.50)	19 (0.75)	140 (5.50)	24 (0.94)	-	198 (7.81)	17.6 (39.00)
SGG-63	546860-037	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)	235 (9.25)	44 (1.75)	-	208 (8.19)	48.1 (106.07)
SGG-44	546860-021	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)	26.3 (58.00)
SGG-54	546860-022	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)	-	229 (9.00)	28.6 (63.00)
SGG-64	546860-023	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)	-	229 (9.00)	30.8 (68.00)
SGG-55	546860-024	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)	37.6 (83.00)
SGG-65	546860-025	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)	-	254 (10.00)	39.9 (88.00)
SGG-66	546860-026	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)	57.9 (121.00)
SGG-86	546860-027	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)	-	283 (11.15)	61.2 (135.00)
SGG-88	546860-028	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)	83.00 (183.00)
SGG-108	546860-029	PN 16	254 (10.00)	203 (8.00)	1653 (256.23)	10.93 (278)	178 (6.99)	325 (12.78)	536 (21.12)	405 (15.93)	25 (1.00)	311 (12.25)	44 (1.75)	-	343 (13.50)	93.00 (205.00)
SGG-1010	546860-030	PN 16	254 (10.00)	254 (10.00)	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)	139.70 (308.00)
SGG-1210	546860-031	PN 16	305 (12.00)	254 (10.00)	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)	-	406 (16.00)	149.7 (330.00)
SGG-1212	546860-032	PN 16	305 (12.00)	305 (12.00)	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)	252.20 (556.00)
SGG-1412	546860-033	PN 16	356 (14.00)	305 (12.00)	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)	-	483 (19.00)	270.8 (597.00)

- 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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