

## MODEL SGHH SUCTION GUIDES | SUBMITTAL

File No: 35.521  
 Date: JULY 30, 2019  
 Supersedes: 35.521  
 Date: AUGUST 01, 2018

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

MODEL NUMBER	CONNECTION SIZES ANSI 250 FLANGED		QUANTITY REQUIRED	IDENTIFICATION
	INLET FROM SYSTEM	OUTLET TO PUMP		

### MATERIALS OF CONSTRUCTION

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

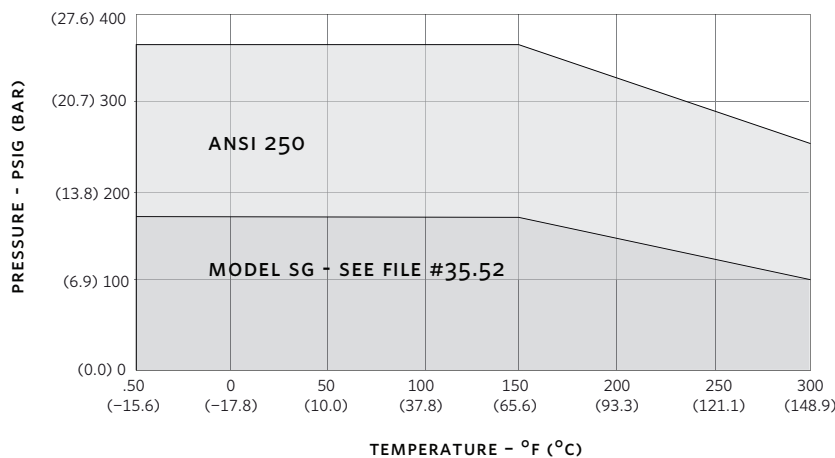
\* SGHH-2515, SGHH-42, SGHH-425 and SGHH-63 have 0.188" holes in strainer

### MAXIMUM PUMP OPERATING CONDITIONS

**ANSI 250**  
 375 psig at 150°F (26 bar at 65°C)  
 260 psig at 300°F (21 bar at 150°C)

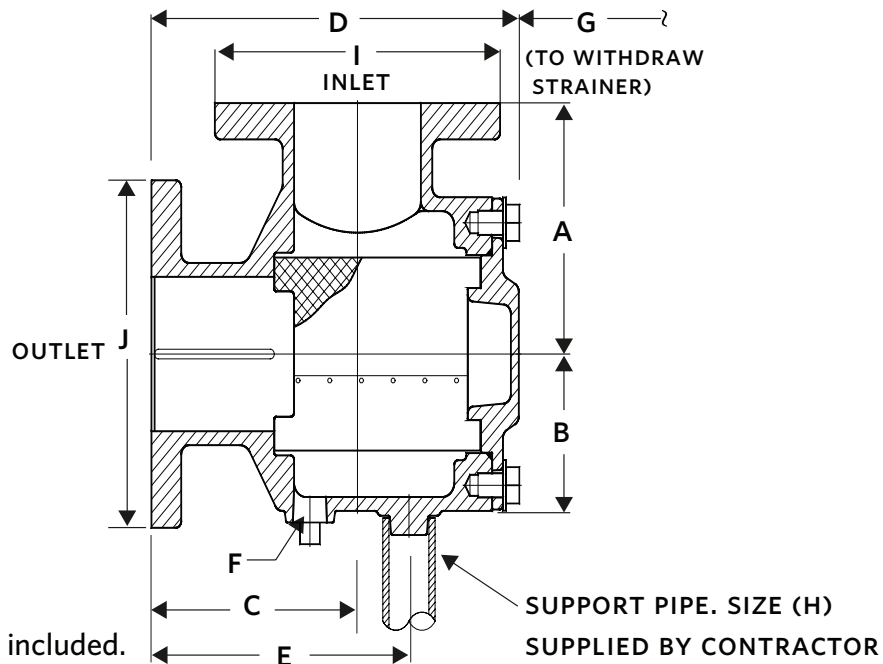
### OPTIONS

### 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)
SGHH-22							
SGHH-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)
SGHH-32							
SGHH-2525							
SGHH-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)
SGHH-33							
SGHH-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)
SGHH-44							
SGHH-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)
SGHH-64							
SGHH-55							
SGHH-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)
SGHH-66							
SGHH-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)
SGHH-88							
SGHH-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)
SGHH-1010							
SGHH-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)
SGHH-1212							
SGHH-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)



DIMENSIONAL DATA SGHH																
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	
SGHH-2515	516860-234	ANSI 250	2.50 (64)	1.50 (38)	44.83 (289)	6.00 (152)	3.63 (92)	6.00 (152)	10.34 (263)	7.60 (193)	0.75 (19)	5.50 (140)	0.95 (24)	7.28 (185)	5.98 (152)	28.24 (12.8)
SGHH-22	516860-214	ANSI 250	2.00 (51)	2.00 (51)	31.79 (205)	5.00 (127)	3.07 (78)	5.00 (127)	8.85 (225)	6.21 (158)	0.50 (13)	4.75 (121)	0.95 (24)	6.50 (165)	6.50 (165)	33.00 (15.0)
SGHH-252	516860-215	ANSI 250	2.50 (64)	2.00 (51)	31.79 (205)	5.50 (140)	3.06 (78)	5.00 (127)	8.85 (225)	6.21 (158)	0.50 (13)	4.75 (121)	0.95 (24)	7.50 (191)	6.50 (165)	36.00 (16.3)
SGHH-32	516860-216	ANSI 250	3.00 (77)	2.00 (51)	31.79 (205)	6.00 (152)	3.07 (78)	5.00 (127)	8.85 (225)	6.21 (158)	0.50 (13)	4.75 (121)	0.95 (24)	8.25 (210)	6.50 (165)	40.00 (18.2)
SGHH-42	516860-235	ANSI 250	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)	10.04 (255)	6.30 (160)	52.52 (23.8)
SGHH-2525	516860-217	ANSI 250	2.50 (64)	2.50 (64)	31.79 (205)	5.50 (140)	3.06 (78)	5.50 (140)	9.10 (231)	6.46 (164)	0.50 (13)	4.75 (121)	0.94 (24)	7.50 (191)	7.50 (191)	38.00 (17.2)
SGHH-325	516860-218	ANSI 250	3.00 (77)	2.50 (64)	31.79 (205)	6.00 (152)	3.06 (78)	5.50 (140)	9.10 (231)	6.46 (164)	0.50 (13)	4.75 (121)	0.94 (24)	8.25 (210)	7.50 (191)	43.00 (19.5)
SGHH-425	516860-236	ANSI 250	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)	10.04 (255)	7.28 (185)	64.85 (29.4)
SGHH-33	516860-219	ANSI 250	3.00 (77)	3.00 (77)	44.79 (289)	6.00 (152)	3.63 (92)	6.00 (152)	10.34 (263)	7.60 (193)	0.75 (19)	5.50 (140)	0.94 (24)	8.25 (210)	8.25 (210)	54.00 (24.5)
SGHH-43	516860-220	ANSI 250	4.00 (102)	3.00 (77)	44.79 (289)	7.00 (178)	3.63 (92)	7.00 (178)	11.34 (288)	8.60 (218)	0.75 (19)	5.50 (140)	0.94 (24)	10.00 (254)	8.25 (210)	63.00 (28.6)
SGHH-63	516860-237	ANSI 250	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)	12.21 (310)	8.19 (208)	131.14 (59.5)
SGHH-44	516860-221	ANSI 250	4.00 (102)	4.00 (102)	74.91 (483)	7.00 (178)	4.20 (107)	7.00 (178)	12.09 (307)	8.63 (219)	0.75 (19)	7.00 (178)	1.13 (29)	10.00 (254)	10.00 (254)	91.00 (41.3)
SGHH-54	516860-222	ANSI 250	5.00 (127)	4.00 (102)	74.91 (483)	8.00 (203)	4.20 (107)	8.00 (203)	13.09 (332)	9.63 (245)	0.75 (19)	7.00 (178)	1.13 (29)	11.00 (279)	10.00 (254)	98.00 (44.4)
SGHH-64	516860-223	ANSI 250	6.00 (152)	4.00 (102)	74.91 (483)	8.50 (216)	4.20 (107)	9.00 (229)	14.09 (358)	10.63 (270)	0.75 (19)	7.00 (178)	1.13 (29)	12.50 (318)	10.00 (254)	118.00 (53.5)
SGHH-55	516860-224	ANSI 250	5.00 (127)	5.00 (127)	102.84 (663)	7.97 (202)	4.81 (122)	7.97 (202)	13.73 (349)	9.97 (253)	1.00 (25)	8.00 (203)	1.13 (29)	11.00 (279)	11.00 (279)	119.00 (54.0)
SGHH-65	516860-225	ANSI 250	6.00 (152)	5.00 (127)	102.84 (663)	8.50 (216)	4.81 (122)	8.97 (228)	14.73 (374)	10.97 (279)	1.00 (25)	8.00 (203)	1.13 (29)	12.50 (318)	11.00 (279)	133.00 (60.3)
SGHH-66	516860-226	ANSI 250	6.00 (152)	6.00 (152)	138.77 (895)	8.56 (217)	5.71 (145)	9.50 (241)	15.98 (406)	11.69 (297)	1.00 (25)	9.25 (235)	1.75 (44)	12.50 (318)	12.50 (318)	165.00 (74.8)
SGHH-86	516860-227	ANSI 250	8.00 (203)	6.00 (152)	138.77 (895)	10.00 (254)	5.71 (145)	11.50 (292)	17.98 (457)	13.69 (348)	1.00 (25)	9.25 (235)	1.75 (44)	15.00 (381)	12.50 (318)	192.00 (87.1)
SGHH-88	516860-228	ANSI 250	8.00 (203)	8.00 (203)	256.23 (1653)	10.00 (254)	6.99 (178)	11.87 (301)	20.21 (513)	15.02 (382)	1.00 (25)	12.25 (311)	1.75 (44)	15.00 (381)	15.00 (381)	263.00 (119.3)
SGHH-108	516860-229	ANSI 250	10.00 (254)	8.00 (203)	256.23 (1653)	11.53 (293)	6.99 (178)	14.37 (365)	22.71 (577)	17.52 (445)	1.00 (25)	12.25 (311)	1.75 (44)	17.50 (445)	15.00 (381)	306.00 (138.8)
SGHH-1010	516860-230	ANSI 250	10.00 (254)	10.00 (254)	384.01 (2477)	11.50 (292)	8.13 (207)	14.29 (363)	24.54 (623)	18.35 (466)	1.00 (25)	15.00 (381)	1.75 (44)	17.50 (445)	17.50 (445)	412.00 (186.8)
SGHH-1210	516860-231	ANSI 250	12.00 (305)	10.00 (254)	384.01 (2477)	13.75 (349)	8.13 (207)	17.29 (439)	27.54 (700)	21.35 (542)	1.00 (25)	15.00 (381)	1.75 (44)	20.50 (521)	17.50 (445)	482.00 (218.6)
SGHH-1212	516860-232	ANSI 250	12.00 (305)	12.00 (305)	668.51 (4313)	16.00 (406)	10.76 (273)	15.79 (401)	29.08 (739)	22.06 (560)	1.00 (25)	19.00 (483)	1.75 (44)	20.50 (521)	20.50 (521)	731.00 (331.6)
SGHH-1412	516860-233	ANSI 250	14.00 (356)	12.00 (305)	668.51 (4313)	17.00 (432)	10.76 (273)	15.79 (401)	29.08 (739)	22.06 (560)	1.00 (25)	19.00 (483)	1.75 (44)	23.00 (584)	20.50 (521)	778.00 (352.9)

- 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