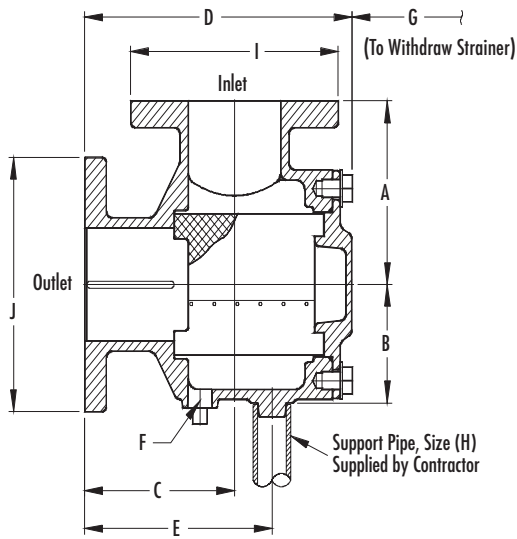


# AURORA ACCESSORIES

## SUCTION DIFFUSER – MODEL SD



Companion flanges not included.

### Materials of Construction

Body	Cast Iron
Strainer	Stainless Steel, 0.125" (3mm) Perf.
Start-Up Strainer (remove after 1 week)	Fine Mesh Galvanized Steel
Diffuser Vanes	Cast Iron
Inlet Gauge Tapping	¼" NPT – Plugged

### Maximum Operating Conditions

Maximum Working Pressure	175 psig (12 bars)
Maximum Operating Temperature	300°F (150°C)

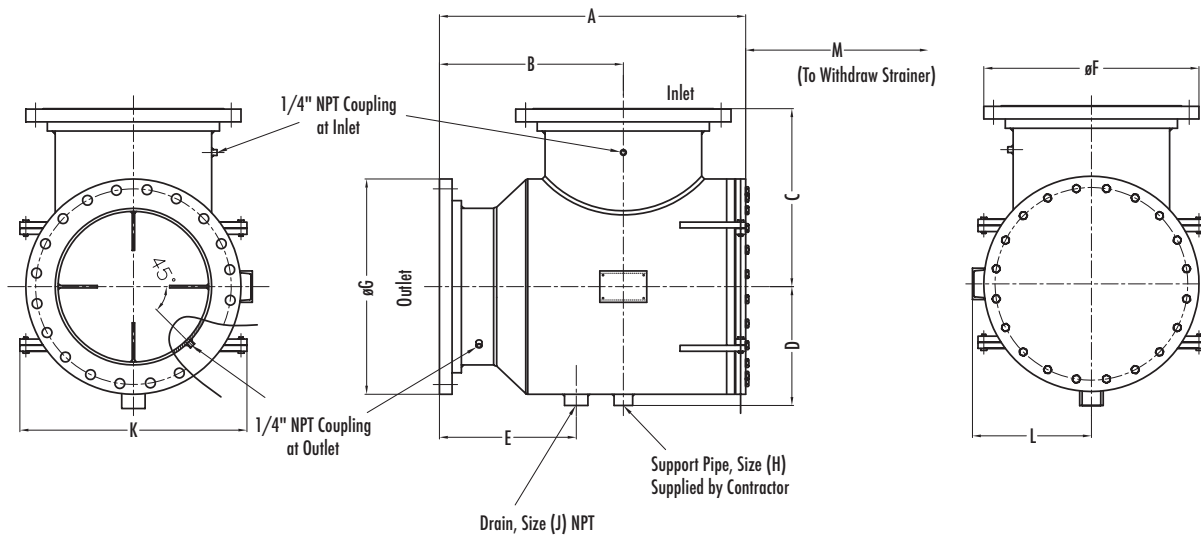
MODEL	Connection Size		Strainer Free Sq. in. (Sq. cm.)	DIMENSIONS in inches (mm)										Weight lbs. (kg)
	System	Pump		A	B	C	D	E	F	G	H	I	J	
SD0215	2 (51)	1.5 (38)	34 (222)	4.50 (114)	3.07 (78)	8.63 (219)	12.63 (321)	9.84 (250)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	5.00 (127)	31 (14.1)
SD0202	2 (51)	2 (51)	34 (222)	4.50 (114)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	6.00 (152)	26 (11.8)
SD2502	2.5 (64)	2 (51)	34 (222)	5.00 (127)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	7.00 (178)	6.00 (152)	29 (13.2)
SD0302	3 (76)	2 (51)	34 (222)	5.50 (140)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	7.50 (191)	6.00 (152)	31 (14.1)
SD2525	2.5 (64)	2.5 (64)	34 (222)	4.90 (124)	3.07 (78)	4.90 (124)	7.50 (191)	5.86 (149)	0.50 (13)	4.75 (121)	1.00 (25)	7.12 (181)	7.12 (181)	34 (15.4)
SD0325	3 (76)	2.5 (64)	34 (222)	5.50 (140)	3.07 (78)	4.90 (124)	7.50 (191)	5.86 (149)	0.50 (13)	4.75 (121)	1.00 (25)	7.50 (191)	7.12 (181)	35 (15.9)
SD0303	3 (76)	3 (76)	44 (282)	5.40 (137)	3.63 (92)	5.40 (137)	9.88 (251)	7.00 (178)	0.75 (19)	5.50 (140)	1.00 (25)	7.81 (198)	7.81 (198)	45 (20.4)
SD0403	4 (102)	3 (76)	44 (282)	6.50 (165)	3.63 (92)	5.90 (150)	10.38 (264)	7.50 (191)	0.75 (19)	5.50 (140)	1.00 (25)	9.00 (229)	7.81 (198)	53 (24.0)
SD0404	4 (102)	4 (102)	79 (511)	6.50 (165)	4.19 (106)	6.50 (165)	11.75 (298)	8.13 (206)	0.75 (19)	7.00 (178)	1.25 (32)	9.00 (229)	9.00 (229)	72 (32.7)
SD0504	5 (127)	4 (102)	79 (511)	7.44 (189)	4.19 (106)	6.50 (165)	11.75 (298)	8.13 (206)	0.75 (19)	7.00 (178)	1.25 (32)	10.00 (254)	9.00 (229)	79 (35.8)
SD0604	6 (152)	4 (102)	79 (511)	8.03 (204)	4.19 (106)	7.50 (191)	12.75 (324)	9.13 (232)	0.75 (19)	7.00 (178)	1.25 (32)	11.00 (279)	9.00 (229)	87 (39.5)
SD0505	5 (127)	5 (127)	111 (719)	7.47 (190)	4.81 (122)	7.47 (190)	13.50 (343)	9.47 (241)	1.00 (25)	8.00 (203)	1.25 (32)	10.00 (254)	10.00 (254)	99 (44.9)
SD0605	6 (152)	5 (127)	111 (719)	8.00 (203)	4.81 (122)	7.47 (190)	13.50 (343)	9.47 (241)	1.00 (25)	8.00 (203)	1.25 (32)	11.15 (283)	10.00 (254)	103 (46.7)
SD0606	6 (152)	6 (152)	120 (775)	8.00 (203)	5.71 (145)	8.00 (203)	14.75 (375)	10.19 (259)	1.00 (25)	9.25 (235)	2.00 (51)	11.15 (283)	11.15 (283)	141 (63.9)
SD0806	8 (203)	6 (152)	120 (775)	9.00 (229)	5.71 (145)	10.00 (254)	16.75 (425)	12.19 (310)	1.00 (25)	9.25 (235)	2.00 (51)	13.50 (343)	11.15 (283)	180 (81.6)
SD0808	8 (203)	8 (203)	273 (1760)	8.93 (227)	7.00 (178)	10.28 (261)	18.75 (476)	13.42 (341)	1.00 (25)	12.25 (311)	2.00 (51)	13.50 (343)	13.50 (343)	213 (96.6)
SD1008	10 (254)	8 (203)	273 (1760)	10.93 (278)	7.00 (178)	12.78 (325)	21.25 (540)	15.92 (404)	1.00 (25)	12.25 (311)	2.00 (51)	16.00 (406)	13.50 (343)	246 (111.6)
SD1010	10 (254)	10 (254)	538 (3474)	11.43 (290)	8.13 (207)	12.72 (323)	23.25 (591)	16.85 (428)	1.00 (25)	15.00 (381)	2.00 (51)	16.00 (406)	16.00 (406)	349 (158.3)
SD1210	12 (305)	10 (254)	538 (3474)	13.00 (330)	8.13 (207)	15.72 (399)	26.25 (667)	19.85 (504)	1.00 (25)	15.00 (381)	2.00 (51)	19.00 (483)	16.00 (406)	390 (176.9)
SD1212	12 (305)	12 (305)	753 (4861)	15.30 (389)	10.76 (273)	14.18 (360)	27.50 (699)	20.45 (519)	1.00 (25)	19.00 (483)	2.00 (51)	19.00 (483)	19.00 (483)	641 (290.7)
SD1412	14 (356)	12 (305)	753 (4861)	16.00 (406)	10.76 (273)	14.18 (360)	27.50 (699)	20.45 (519)	1.00 (25)	19.00 (483)	2.00 (51)	21.00 (533)	19.00 (483)	637 (288.9)
SD1414	14 (356)	14 (356)	997 (6433)	14.00 (356)	11.00 (279)	14.00 (356)	28.00 (711)	17.50 (445)	2.00 (51)	21.00 (533)	2.00 (51)	21.00 (533)	21.00 (533)	710 (322.0)
SD1614	16 (406)	14 (356)	997 (6433)	14.00 (356)	12.00 (305)	15.00 (381)	27.88 (708)	17.50 (445)	2.00 (51)	21.00 (533)	2.00 (51)	23.50 (597)	21.00 (533)	750 (340.1)

### NOTES:

1. Dimensions and weights are for reference only.
2. Please allow +/- 0.25" (6mm) dimensional tolerance.
3. Contact the factory for certified dimension prints.

## AURORA ACCESSORIES

### LARGE FABRICATED SUCTION DIFFUSER



MODEL	Connection Size (NPS)		Strainer Free Sq. in. (Sq. cm.)	DIMENSIONS in inches (mm)												Empty Weight lbs. (kg)
	System	Pump		A	B	C	D	E	F	G	H	J	K	L	M	
SD1414	14 (350)	14 (350)	617 (3981)	31.88 (810)	18.38 (467)	16.50 (419)	11.69 (297)	13.69 (348)	21.00 (533)	21.00 (533)	2.00 (50)	1.50 (38)	21.50 (546)	11.69 (297)	25.5 (648)	600 (272.7)
SD1614	16 (400)	14 (350)	617 (3981)	31.88 (810)	18.50 (470)	16.50 (419)	11.69 (297)	13.50 (343)	23.50 (597)	21.00 (533)	2.00 (50)	1.50 (38)	21.50 (546)	11.69 (297)	25.5 (648)	625 (284.1)
SD1616	16 (400)	16 (400)	777 (5013)	33.25 (845)	19.50 (495)	19.50 (495)	13.25 (337)	14.50 (368)	23.50 (597)	23.50 (597)	2.00 (50)	1.50 (38)	24.50 (622)	13.19 (335)	27.00 (686)	750 (340.9)
SD1816	18 (450)	16 (400)	777 (5013)	33.25 (845)	19.19 (487)	19.50 (495)	13.25 (337)	14.50 (368)	25.00 (635)	23.50 (597)	2.00 (50)	1.50 (38)	24.50 (622)	13.19 (335)	27.00 (686)	790 (359.1)
SD2020	20 (500)	20 (500)	1298 (8374)	41.5 (1054)	23.50 (597)	22.50 (572)	15.50 (394)	18.50 (470)	27.50 (699)	27.50 (699)	2.00 (50)	2.00 (50)	29.00 (737)	15.44 (392)	34.00 (864)	1180 (536.4)
SD2420	24 (600)	20 (500)	1298 (8374)	41.5 (1054)	24.19 (614)	23.13 (587)	15.50 (394)	18.50 (470)	32.00 (813)	27.50 (699)	2.00 (50)	2.00 (50)	29.00 (737)	15.44 (392)	34.00 (864)	1280 (581.8)

**Materials of Construction**

Shell	SA-106B / SA-516-70
Reducing Cone	SA-516-70
Inlet Flange (ANSI SO Raised Face)	SA-105
Outlet Flange (ANSI SO Raised Face)	SA-105
Couplings (3000#)	SA-105
Cover Plate	SA-516-70
Strainer	SS-304
Cover Gasket	Non Asbestos Klinger SiL C-4430
Studs	SA-325

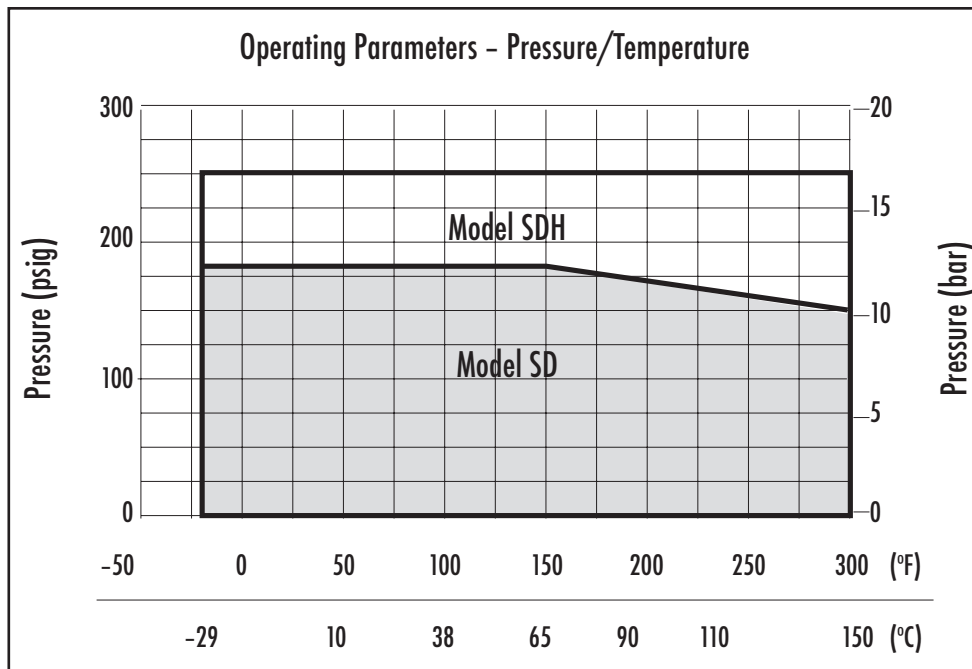
**Maximum Operating Conditions**

Maximum Working Pressure	175 psi
Maximum Working Temperature	300°F

**NOTES:**

1. Dimensions and weights are for reference only.
2. Please allow +/- 0.25" (6mm) dimensional tolerance.
3. Contact the factory for certified dimension prints.

**AURORA ACCESSORIES**  
 SUCTION DIFFUSER – MODEL SD



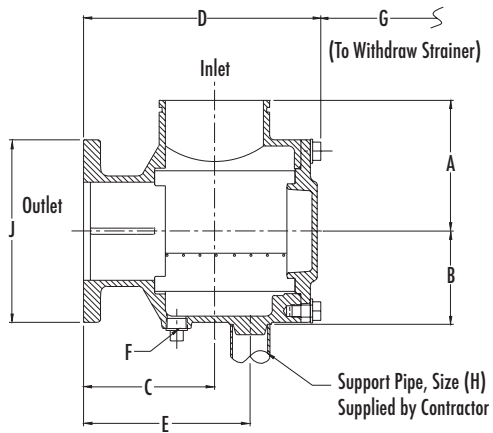
MODEL	Velocity in Feet Per Second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
	Pressure Drop in Feet (m) of Water @ Flow in US gpm (l/s)							
SD0215	ft (m) @ Us gpm(l/s)	0.05 (0.02) 19 (1.2)	0.08 (0.02) 25 (1.6)	0.13 (0.04) 32 (2.0)	0.19 (0.06) 38 (2.4)	0.35 (0.11) 52 (3.3)	0.52 (0.16) 63 (4.0)	0.77 (0.23) 77 (4.9)
SD0202 SD2502* SD0302*	ft (m) @ Us gpm (l/s)	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)
SD2525 SD0325*	ft (m) @ Us gpm(l/s)	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)
SD0303 SD0403*	ft (m) @ Us gpm (l/s)	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)
SD0404 SD0504* SD0604*	ft (m) @ Us gpm(l/s)	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)
SD0505 SD0605*	ft (m) @ Us gpm (l/s)	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)
SD0606 SD0806*	ft (m) @ Us gpm (l/s)	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)
SD0808 SD1008*	ft (m) @ Us gpm (l/s)	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)
SD1010 SD1210*	ft (m) @ Us gpm (l/s)	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)
SD1212 SD1412*	ft (m) @ Us gpm (l/s)	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)
SD1414 SD1614*	ft (m) @ Us gpm (l/s)	0.28 (0.09) 1440 (90.9)	0.58 (0.18) 1920 (121.1)	0.92 (0.28) 2400 (151.4)	1.23 (0.38) 2880 (181.7)	2.13 (0.65) 3840 (242.3)	3.50 (1.07) 4800 (302.8)	5.30 (1.62) 5760 (363.4)

\*Flange size does not apply to pipe size entrance into suction diffuser.

# AURORA ACCESSORIES

## SUCTION DIFFUSER – MODEL SDG

### GROOVED INLET – FLANGED OUTLET



#### Materials of Construction

Body	Ductile Iron A536 grade 65-45-12
Strainer	Stainless Steel, 0.125" (3mm) Perf.
Start-Up Strainer (remove after 24 hrs.)	Fine Mesh Galvanized Steel
Diffuser Vanes	Ductile Iron A536 grade 65-45-12
Inlet Gauge Tapping	¼" NPT – Plugged

#### Maximum Operating Conditions

Maximum Working Pressure	250 psig (17 bars)
Maximum Operating Temperature	300°F (150°C)

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

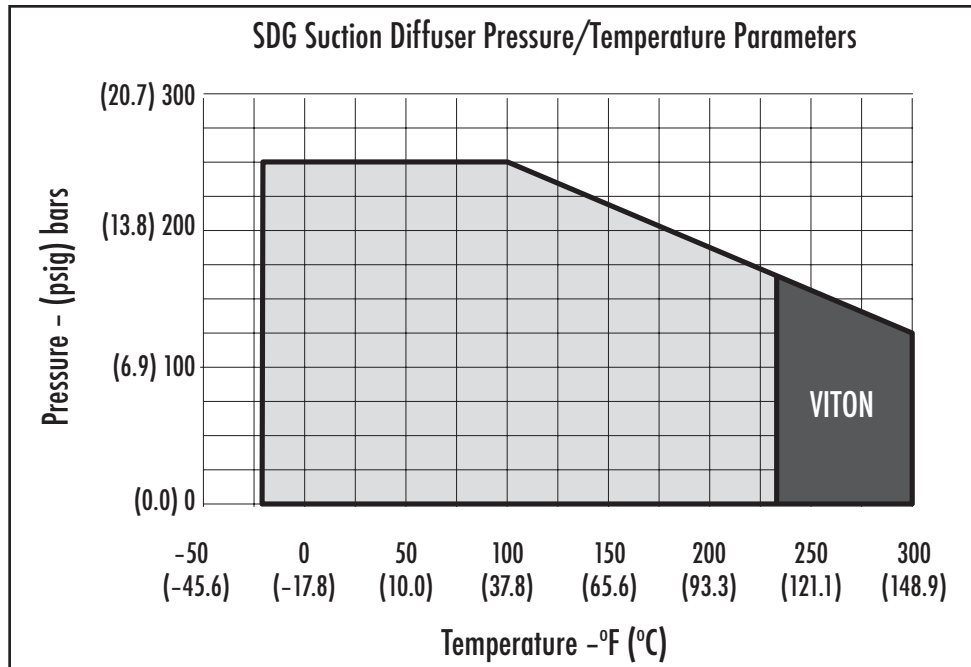
MODEL	Connection Size		Strainer Free Area Sq. in. (Sq. cm.)	DIMENSIONS in inches (mm)									Weight lbs. (kg)
	System	Pump		A	B	C	D	E	F	G	H	J	
SDG0202	2 (51)	2 (51)	34 (222)	4.50 (114)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	22 (10.0)
SDG2502	2.5 (64)	2 (51)	34 (222)	5.00 (127)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	22 (10.0)
SDG0302	3 (76)	2 (51)	34 (222)	5.50 (140)	3.07 (78)	4.50 (114)	8.50 (216)	5.71 (145)	0.50 (13)	4.75 (121)	1.00 (25)	6.00 (152)	23 (10.4)
SDG2525	2.5 (64)	2.5 (64)	34 (222)	4.90 (124)	3.07 (78)	4.90 (124)	7.50 (191)	5.86 (149)	0.50 (13)	4.75 (121)	1.00 (25)	7.12 (181)	27 (12.2)
SDG0325	3 (76)	2.5 (64)	34 (222)	5.50 (140)	3.07 (78)	4.90 (124)	7.50 (191)	5.86 (149)	0.50 (13)	4.75 (121)	1.00 (25)	7.12 (181)	27 (12.2)
SDG0303	3 (76)	3 (76)	44 (282)	5.40 (137)	3.63 (92)	5.40 (137)	9.88 (251)	7.00 (178)	0.75 (19)	5.50 (140)	1.00 (25)	7.81 (198)	36 (16.3)
SDG0403	4 (102)	3 (76)	44 (282)	6.50 (165)	3.63 (92)	5.90 (150)	10.38 (264)	7.50 (191)	0.75 (19)	5.50 (140)	1.00 (25)	7.81 (198)	39 (17.7)
SDG0404	4 (102)	4 (102)	79 (511)	6.50 (165)	4.19 (106)	6.50 (165)	11.75 (298)	8.13 (206)	0.75 (19)	7.00 (178)	1.25 (32)	9.00 (229)	58 (26.3)
SDG0504	5 (127)	4 (102)	79 (511)	7.44 (189)	4.19 (106)	6.50 (165)	11.75 (298)	8.13 (206)	0.75 (19)	7.00 (178)	1.25 (32)	9.00 (229)	63 (28.6)
SDG0604	6 (152)	4 (102)	79 (511)	8.03 (204)	4.19 (106)	7.50 (191)	12.75 (324)	9.13 (232)	0.75 (19)	7.00 (178)	1.25 (32)	9.00 (229)	68 (30.8)
SDG0505	5 (127)	5 (127)	111 (719)	7.47 (190)	4.81 (122)	7.47 (190)	13.50 (343)	9.47 (241)	1.00 (25)	8.00 (203)	1.25 (32)	10.00 (254)	83 (37.6)
SDG0605	6 (152)	5 (127)	111 (719)	8.00 (203)	4.81 (122)	7.47 (190)	13.50 (343)	9.47 (241)	1.00 (25)	8.00 (203)	1.25 (32)	10.00 (254)	88 (39.9)
SDG0606	6 (152)	6 (152)	120 (775)	8.00 (203)	5.71 (145)	8.00 (203)	14.75 (375)	10.19 (259)	1.00 (25)	9.25 (235)	2.00 (51)	11.15 (283)	121 (54.9)
SDG0806	8 (203)	6 (152)	120 (775)	9.00 (229)	5.71 (145)	10.00 (254)	16.75 (425)	12.19 (310)	1.00 (25)	9.25 (235)	2.00 (51)	11.15 (283)	135 (61.2)
SDG0808	8 (203)	8 (203)	273 (1760)	8.93 (227)	7.00 (178)	10.28 (261)	18.75 (476)	13.42 (341)	1.00 (25)	12.25 (311)	2.00 (51)	13.50 (343)	183 (83.0)
SDG1008	10 (254)	8 (203)	273 (1760)	10.93 (278)	7.00 (178)	12.78 (325)	21.25 (540)	15.92 (404)	1.00 (25)	12.25 (311)	2.00 (51)	13.50 (343)	205 (93.0)
SDG1010	10 (254)	10 (254)	538 (3474)	11.43 (290)	8.13 (207)	12.72 (323)	23.25 (591)	16.85 (428)	1.00 (25)	15.00 (381)	2.00 (51)	16.00 (406)	308 (139.7)
SDG1210	12 (305)	10 (254)	538 (3474)	13.00 (330)	8.13 (207)	15.72 (399)	26.25 (667)	19.85 (504)	1.00 (25)	15.00 (381)	2.00 (51)	16.00 (406)	330 (149.7)
SDG1212	12 (305)	12 (305)	753 (4861)	15.30 (389)	10.76 (273)	15.09 (383)	28.41 (722)	21.36 (543)	1.00 (25)	19.00 (483)	2.00 (51)	19.00 (483)	556 (252.2)
SDG1412	14 (356)	12 (305)	753 (4861)	16.00 (406)	10.76 (273)	15.09 (383)	28.41 (722)	21.36 (543)	1.00 (25)	19.00 (483)	2.00 (51)	19.00 (483)	597 (270.7)

**NOTES:**

1. Dimensions and weights are for reference only.
2. Please allow +/- 0.25" (6mm) dimensional tolerance.
3. Contact the factory for certified dimension prints.



**AURORA ACCESSORIES**  
 SUCTION DIFFUSER – MODEL SDG  
 GROOVED INLET – FLANGED OUTLET



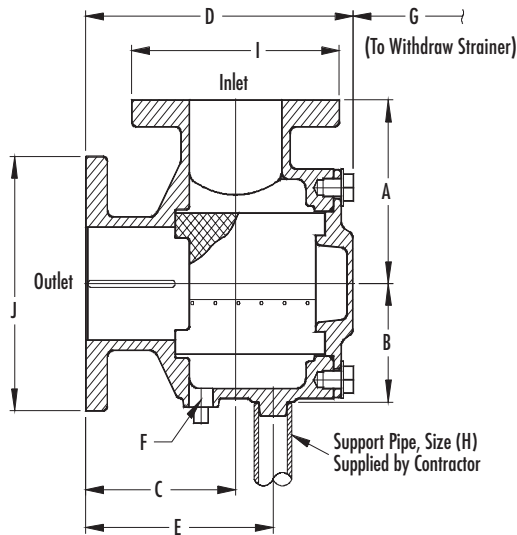
**NOTE:**  
 For temperatures  
 from 230°F to  
 300°F (110°C to  
 150°C) use Viton  
 Elastomer.

MODEL	Velocity in Feet Per Second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
	Pressure Drop in Feet (m) of Water @ Flow in US gpm (l/s)							
SDG0202 SDG2502* SDG0302*	ft (m) @ Us gpm (l/s)	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)
SDG2525 SDG0325*	ft (m) @ Us gpm (l/s)	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)
SDG0303 SDG0403*	ft (m) @ Us gpm (l/s)	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)
SDG0404 SDG0504* SDG0604*	ft (m) @ Us gpm (l/s)	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)
SDG0505 SDG0605*	ft (m) @ Us gpm (l/s)	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)
SDG0606 SDG0806*	ft (m) @ Us gpm (l/s)	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)
SDG0808 SDG1008*	ft (m) @ Us gpm (l/s)	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)
SDG1010 SDG1210*	ft (m) @ Us gpm (l/s)	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)
SDG1212 SDG1412*	ft (m) @ Us gpm (l/s)	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)

\*Flange size does not apply to pipe size entrance into suction diffuser.

# AURORA ACCESSORIES

## SUCTION DIFFUSER – MODEL SDH



### Materials of Construction

Body	Ductile Iron
Strainer	Stainless Steel, 0.125" (3mm) Perf.
Start-Up Strainer (remove after 1 week)	Fine Mesh Galvanized Steel
Diffuser Vanes	Ductile Iron
Inlet Gauge Tapping	¼" NPT – Plugged

### Maximum Operating Conditions

Maximum Working Pressure	250 psig (17 bars)
Maximum Operating Temperature	300°F (150°C)

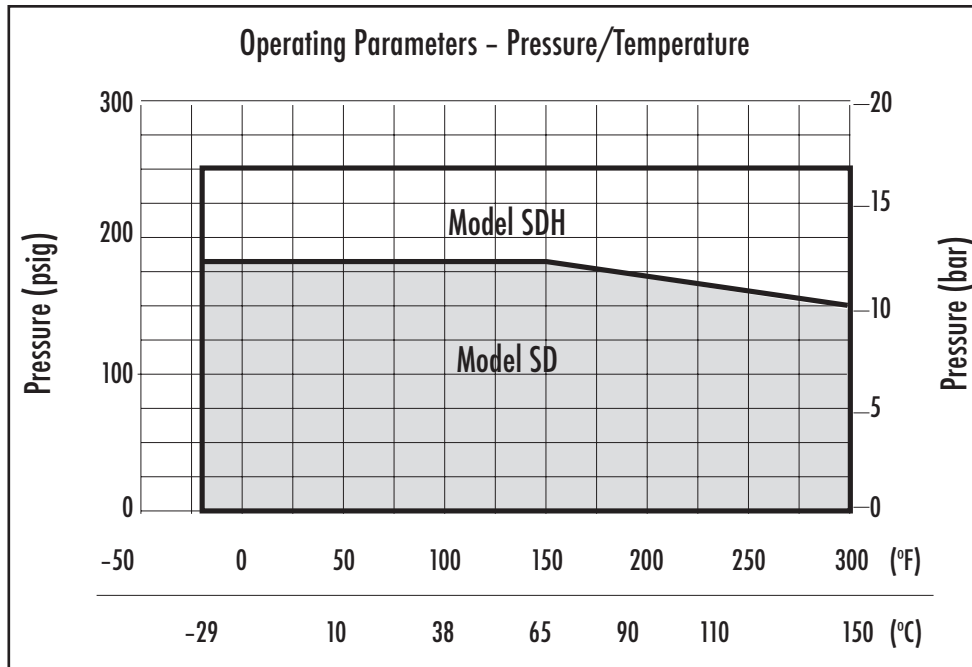
Companion flanges not included.

MODEL	Connection Size		Strainer Free Sq. in. (Sq. cm.)	DIMENSIONS in inches (mm)										Weight lbs. (kg)
	System	Pump		A	B	C	D	E	F	G	H	I	J	
SDH0202	2 (50)	2 (50)	34 (222)	5.00 (127)	3.07 (78)	5.00 (127)	9.00 (229)	6.21 (158)	0.50 (13)	4.75 (121)	1.00 (25)	6.50 (165)	6.50 (165)	33 (15.0)
SDH2502	2.5 (63)	2 (50)	34 (222)	5.50 (140)	3.07 (78)	5.00 (127)	9.00 (229)	6.21 (158)	0.50 (13)	4.75 (121)	1.00 (25)	7.50 (191)	6.50 (165)	36 (16.3)
SDH0302	3 (75)	2 (50)	34 (222)	6.00 (152)	3.07 (78)	5.00 (127)	9.00 (229)	6.21 (158)	0.50 (13)	4.75 (121)	1.00 (25)	8.25 (210)	6.50 (165)	40 (18.1)
SDH2525	2.5 (63)	2.5 (63)	34 (222)	5.50 (140)	3.07 (78)	5.50 (140)	9.25 (235)	6.46 (164)	0.50 (13)	4.75 (121)	1.00 (25)	7.50 (191)	7.50 (191)	38 (17.2)
SDH0325	3 (75)	2.5 (63)	34 (222)	6.00 (152)	3.07 (78)	5.50 (140)	9.25 (235)	6.46 (164)	0.50 (13)	4.75 (121)	1.00 (25)	8.25 (210)	7.50 (191)	43 (19.5)
SDH0303	3 (75)	3 (75)	44 (282)	6.00 (152)	3.63 (92)	6.00 (152)	10.50 (267)	7.60 (193)	0.75 (19)	5.50 (140)	1.00 (25)	8.25 (210)	8.25 (210)	54 (24.5)
SDH0403	4 (100)	3 (75)	44 (282)	7.00 (178)	3.63 (92)	7.00 (178)	11.50 (292)	8.60 (218)	0.75 (19)	5.50 (140)	1.00 (25)	10.00 (254)	8.25 (210)	64 (29.0)
SDH0404	4 (100)	4 (100)	79 (511)	7.00 (178)	4.19 (106)	7.00 (178)	12.25 (311)	8.63 (219)	0.75 (19)	7.00 (178)	1.25 (32)	10.00 (254)	10.00 (254)	91 (41.3)
SDH0504	5 (125)	4 (100)	79 (511)	8.00 (203)	4.19 (106)	8.00 (203)	13.25 (337)	9.63 (245)	0.75 (19)	7.00 (178)	1.25 (32)	11.00 (279)	10.00 (254)	98 (44.4)
SDH0604	6 (150)	4 (100)	79 (511)	8.50 (216)	4.19 (106)	9.00 (229)	14.25 (362)	10.63 (219)	0.75 (19)	7.00 (178)	1.25 (32)	12.50 (318)	10.00 (254)	118 (53.5)
SDH0505	5 (125)	5 (125)	111 (719)	7.97 (202)	4.81 (122)	7.97 (202)	14.00 (356)	9.97 (253)	1.00 (25)	8.00 (203)	1.25 (32)	11.00 (279)	11.00 (279)	119 (54.0)
SDH0605	6 (150)	5 (125)	111 (719)	8.50 (216)	4.81 (122)	8.97 (228)	15.00 (381)	10.97 (279)	1.00 (25)	8.00 (203)	1.25 (32)	12.50 (318)	11.00 (279)	135 (61.2)
SDH0606	6 (150)	6 (150)	120 (775)	8.50 (216)	5.71 (145)	9.50 (241)	16.25 (413)	11.69 (297)	1.00 (25)	9.25 (235)	2.00 (51)	12.50 (318)	12.50 (318)	165 (74.8)
SDH0806	8 (200)	6 (150)	120 (775)	10.00 (254)	5.71 (145)	11.50 (292)	18.25 (464)	14.69 (373)	1.00 (25)	9.25 (235)	2.00 (51)	15.00 (381)	12.50 (318)	192 (87.1)
SDH0808	8 (200)	8 (200)	273 (1760)	10.00 (254)	7.00 (178)	11.85 (301)	21.50 (546)	14.99 (381)	1.00 (25)	12.25 (311)	2.00 (51)	15.00 (381)	15.00 (381)	268 (121.5)
SDH1008	10 (250)	8 (200)	273 (1760)	11.53 (293)	7.00 (178)	14.35 (364)	24.00 (610)	17.49 (444)	1.00 (25)	12.25 (311)	2.00 (51)	17.50 (445)	15.00 (381)	317 (143.8)
SDH1010	10 (250)	10 (250)	538 (3474)	11.50 (292)	8.13 (207)	14.29 (363)	24.75 (629)	18.35 (466)	1.00 (25)	15.00 (381)	2.00 (51)	17.50 (445)	17.50 (445)	412 (186.8)
SDH1210	12 (300)	10 (250)	538 (3474)	13.75 (349)	8.13 (207)	17.29 (439)	27.75 (705)	21.35 (542)	1.00 (25)	15.00 (381)	2.00 (51)	20.50 (521)	17.50 (445)	482 (218.6)
SDH1212	12 (300)	12 (300)	753 (4861)	16.00 (406)	10.76 (273)	15.79 (401)	29.25 (743)	22.06 (560)	1.00 (25)	19.00 (483)	2.00 (51)	20.50 (521)	20.50 (521)	731 (331.5)
SDH1412	14 (350)	12 (300)	753 (4861)	17.00 (432)	10.76 (273)	15.79 (401)	29.25 (743)	22.06 (560)	1.00 (25)	19.00 (483)	2.00 (51)	23.00 (584)	20.50 (521)	778 (352.8)

**NOTES:**

1. Dimensions and weights are for reference only.
2. Please allow +/- 0.25" (6mm) dimensional tolerance.
3. Contact the factory for certified dimension prints.





MODEL	Velocity in Feet Per Second (m/s)							
	f/s (m/s)	3 (0.91)	4 (1.22)	5 (1.52)	6 (1.83)	8 (2.44)	10 (3.05)	12 (3.66)
	Pressure Drop in Feet (m) of Water @ Flow in US gpm (l/s)							
SDH0202 SDH2502* SDH0302*	ft (m) @ Us gpm (l/s)	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)
SDH2525 SDH0325*	ft (m) @ Us gpm (l/s)	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)
SDH0303 SDH0403*	ft (m) @ Us gpm (l/s)	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)
SDH0404 SDH0504* SDH0604*	ft (m) @ Us gpm (l/s)	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)
SDH0505 SDH0605*	ft (m) @ Us gpm (l/s)	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)
SDH0606 SDH0806*	ft (m) @ Us gpm (l/s)	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)
SDH0808 SDH1008*	ft (m) @ Us gpm (l/s)	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)
SDH1010 SDH1210*	ft (m) @ Us gpm (l/s)	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)
SDH1212 SDH1412*	ft (m) @ Us gpm (l/s)	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)

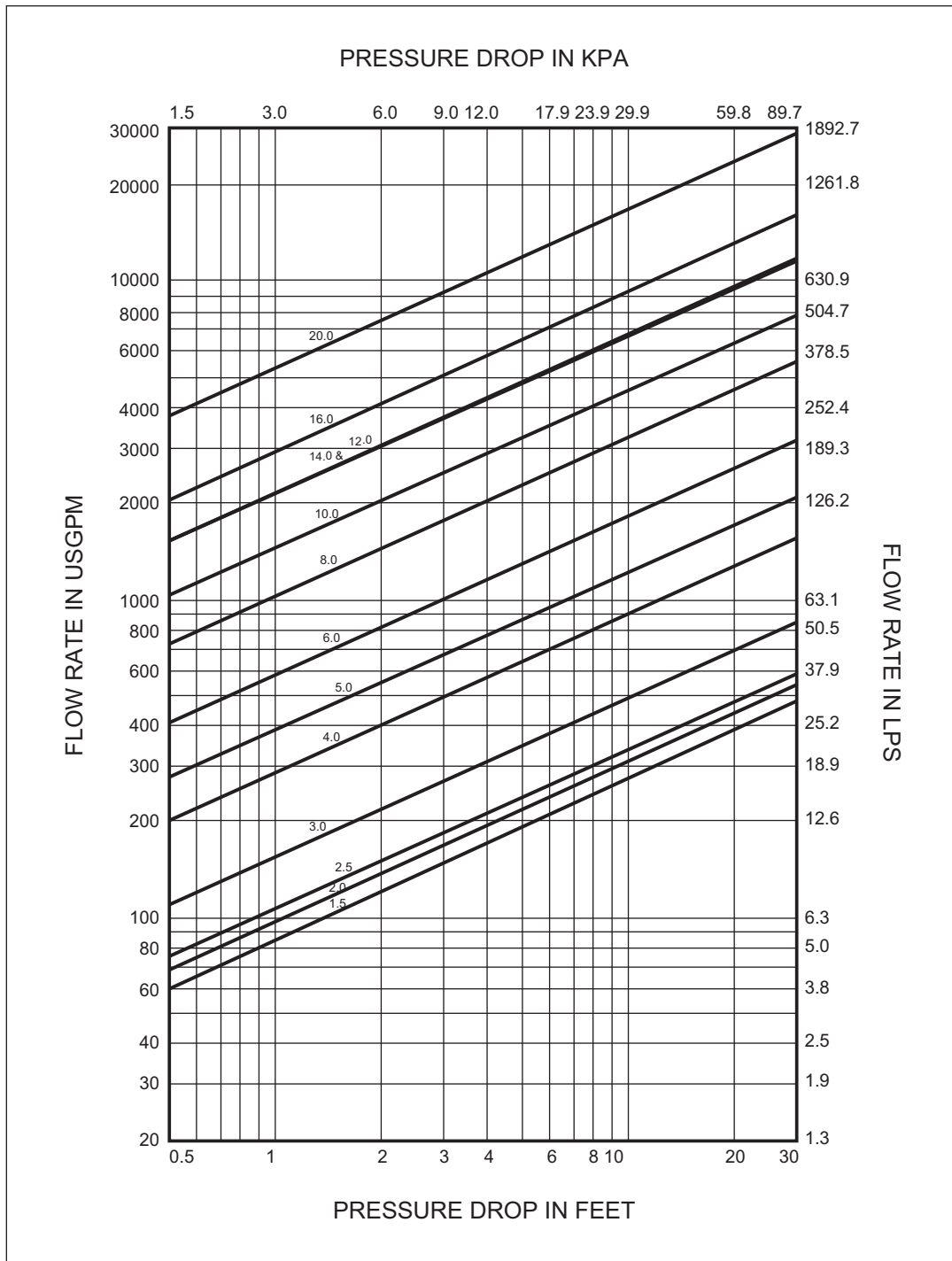
\*Flange size does not apply to pipe size entrance into suction diffuser.

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**AURORA ACCESSORIES**

SUCTION DIFFUSER  
PRESSURE DROP CHART



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