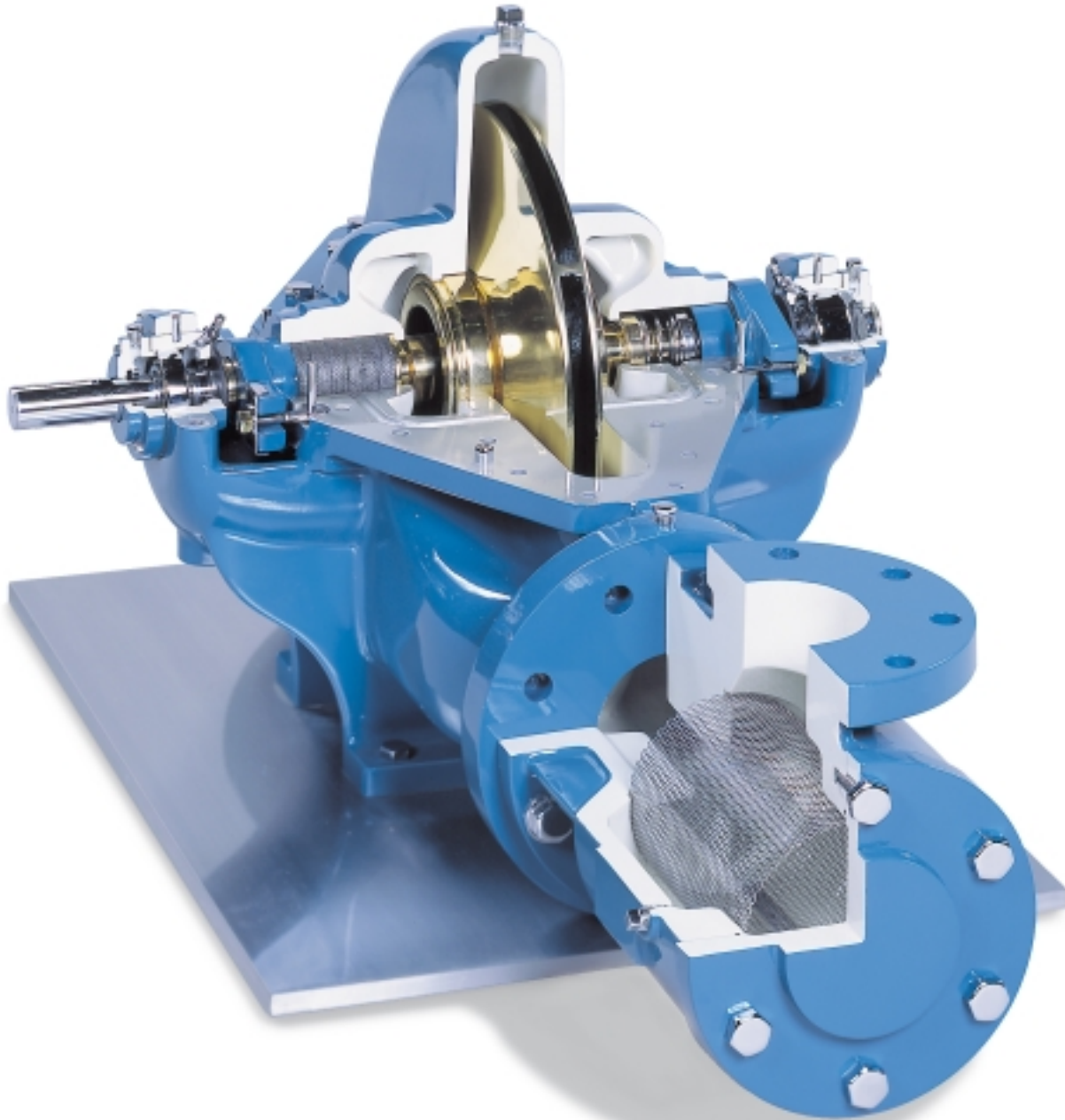


Accessories Suction Diffuser



Aurora Pumps Accessories

Suction Diffusers - Feature List

SPACE SAVING DESIGN

Replaces standard or reducing 90° elbow
Replaces conventional strainer
Replaces long inlet piping

INLET AND OUTLET FLANGES ***125# ANSI STANDARD***

175 PSI maximum pressure

304 STAINLESS STEEL ***RUNNING STRAINER*** ***AND START-UP SCREEN***

Throw away screen protects
pump during start up

CAST IRON INTEGRAL ***STRAIGHTENING VANES***

Full length cast vanes
reduce turbulence

O-RING SEALED COVER

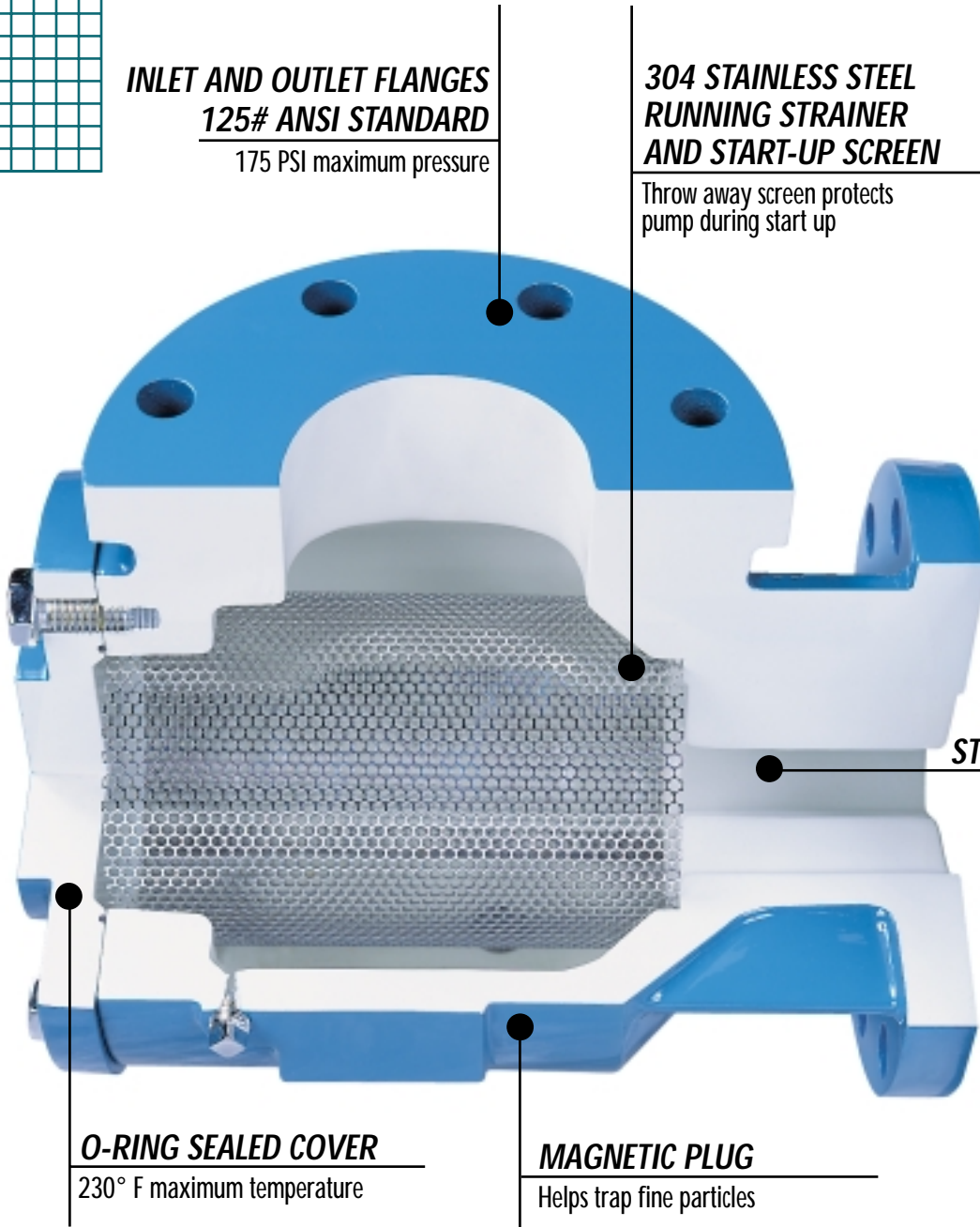
230° F maximum temperature

MAGNETIC PLUG

Helps trap fine particles

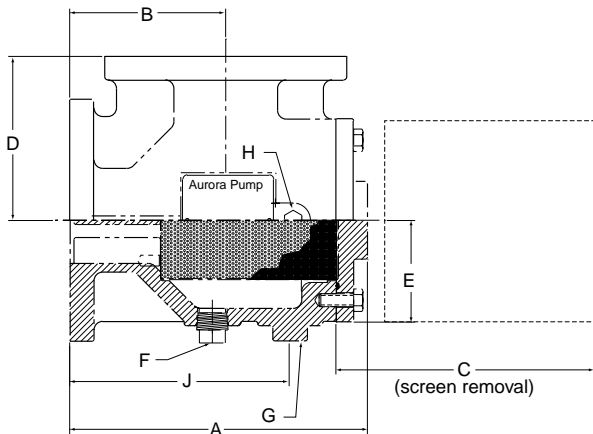
AVAILABLE IN SIZES FROM 2"x1-1/2" TO 12"x12"

23 different sizes available from stock



Dimension Sheet

Model	Inlet	Outlet	STRAINER		DIMENSIONS IN INCHES (MM)										Weight lbs. (kg)
			Free Open Area (5)	Diameter of Openings	A	B	C	D	E	F (npt)	G (Pipe size)	H (npt)	J		
SD2015	2	1.5	32 (206)	0.16 (4)	8.74 (222)	4.50 (114)	6.19 (157)	4.50 (114)	2.73 (69)	1/2	3/4	1/4	5.86 (149)	28 (13)	
SD2020	2	2			30 (14)										
SD2520	2.5	2	34 (219)	0.16 (4)	8.60 (218)	4.50 (114)	5.90 (150)	4.75 (121)	2.93 (74)	1/2	1	1/4	6.36 (162)	32 (15)	
SD2525	2.5	2.5												33 (15)	
SD3020	3	2												34 (15)	
SD3025	3	2.5												35 (16)	
SD3030	3	3												50 (324)	0.16 (4)
SD4030	4	3	77 (497)	0.16 (4)	12.88 (327)	7.25 (184)	8.50 (216)	5.75 (146)	4.10 (104)	3/4	1-1/4	1/4	8.94 (227)	59 (27)	
SD4040	4	4												82 (37)	
SD5040	5	4												84 (38)	
SD6040	6	4												87 (39)	
SD5050	5	5												124 (800)	0.16 (4)
SD6050	6	5	150 (968)	0.16 (4)	15.69 (399)	8.25 (210)	11.00 (279)	8.00 (203)	5.50 (140)	1	2	1/4	10.75 (273)	128 (58)	
SD8050	8	5												142 (64)	
SD6060	6	6												160 (73)	
SD8060	8	6	182 (1174)	0.16 (4)	17.78 (451)	9.25 (235)	13.00 (330)	8.00 (203)	5.50 (140)	1	2	1/4	10.75 (273)	166 (75)	
SD1060	10	6												184 (83)	
SD8080	8	8	242 (1561)	0.16 (4)	19.53 (496)	11.00 (279)	14.50 (368)	9.50 (241)	6.75 (171)	1	2	1/4	14.50 (368)	266 (121)	
SD1080	10	8												270 (122)	
SD1010	10	10	388 (2503)	0.16 (4)	24.15 (613)	12.75 (324)	18.25 (464)	11.00 (279)	7.50 (191)	1	2	1/4	16.75 (425)	345 (156)	
SD1280	12	8	272 (1755)	0.16 (4)	21.50 (546)	12.00 (305)	16.00 (406)	9.50 (241)	6.75 (171)	1	2	1/4	14.50 (368)	300 (136)	
SD1210	12	10	388 (2503)	0.16 (4)	24.15 (613)	12.75 (324)	18.25 (464)	11.00 (279)	7.50 (191)	1	2	1/4	16.75 (425)	377 (171)	
SD1212	12	12	502 (3239)	0.16 (4)	26.50 (673)	15.00 (381)	19.00 (483)	12.00 (305)	9.50 (241)	1	2	1/4	19.00 (483)	430 (195)	

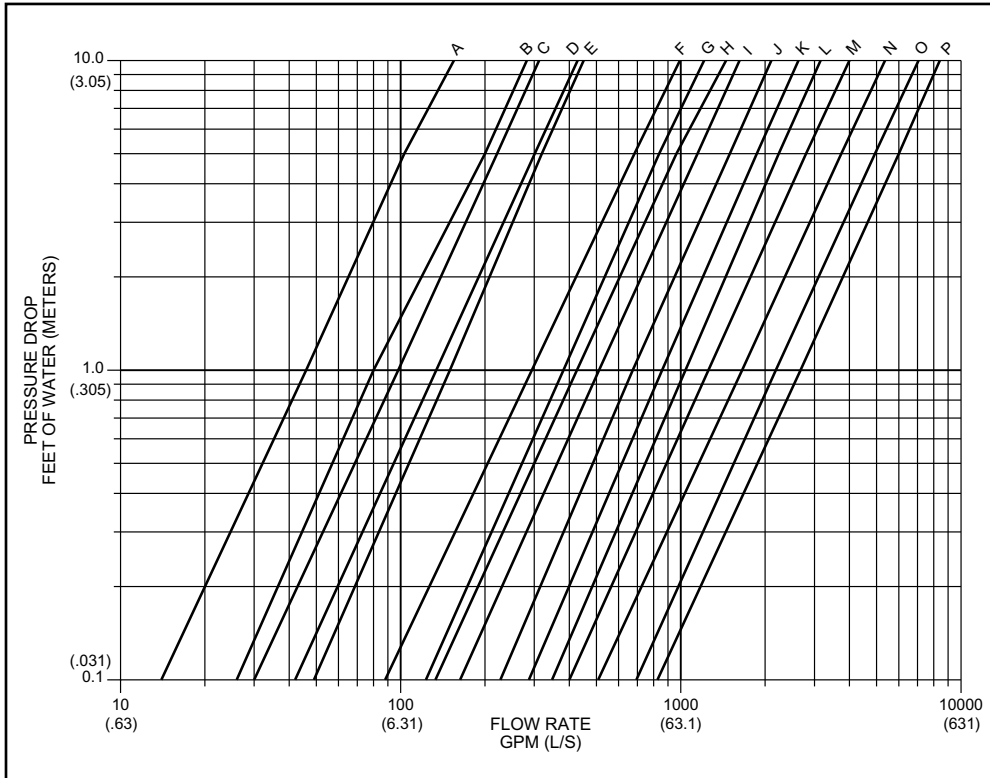


NOTES:

1. All dimensions in inches (mm), open area inches² (cm²).
2. Dimensions may vary $\pm 1/8$ (3).
3. Maximum working temperature 230°F.
4. "G" is boss for pipe support (supplied by others).
Boss to fit inside pipe size listed (sch 80/40).
5. Strainers are 62% open area.
6. Maximum working pressure 175 P.S.I.
7. Not for construction purposes unless certified.
8. Discharge and suction flanges - 125# ANSI flat face.

Materials of Construction/Pressure Drop Curve

MATERIALS OF CONSTRUCTION	
Diffuser Body	Cast Iron, ASTM A48
Cover	Cast Iron, ASTM A48
Start-Up Screen	20 Mesh, 304 Stainless Steel
Strainer	5/32" Perforated, 304 Stainless Steel
O-Ring	Buna-N
Purge/Drain Plugs	Wrought Steel
Cap Screws	Wrought Steel, SAE Grade 5



Diffuser Model	Curve Letter
SD2015	A
SD2020	B
SD2520	C
SD3020	
SD2525	D
SD3025	
SD3030	E
SD4030	
SD4040	F
SD5040	
SD6040	
SD5050	G
SD6050	
SD8050	H
SD6060	
SD8060	J
SD1060	
SD8080	L
SD1080	
SD1280	M
SD1010	N
SD1210	O
SD1212	P

TYPICAL SPECIFICATION

The contractor shall furnish and install in location an Aurora Suction Diffuser Model _____, Size ____"x____". The suction diffuser shall be of cast iron construction with cast integral straightening vanes. A start up screen of 20 mesh, 304 stainless steel will be included over the primary strainer. The primary strainer will be of 304 stainless steel and have 5/32" diameter perforations. The cover shall be O-Ring sealed and the diffuser body will be equipped with a cast boss for a pipe support. Each diffuser will have ANSI 125 lb flanges.

NOTE: Aurora Pump reserves the right to make revisions to its products and their specifications, and to this bulletin and related information without notice.

— Your Authorized Local Distributor —



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 WORLDWIDE FAX: (630) 859-1226

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EMAIL: aurora_info@pentairpump.com

AURORA MFG. PLANT:

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SALES OFFICES IN ALL MAJOR CITIES AND COUNTRIES

Refer to "Pumps" in yellow pages of your phone directory for your local Distributor.