

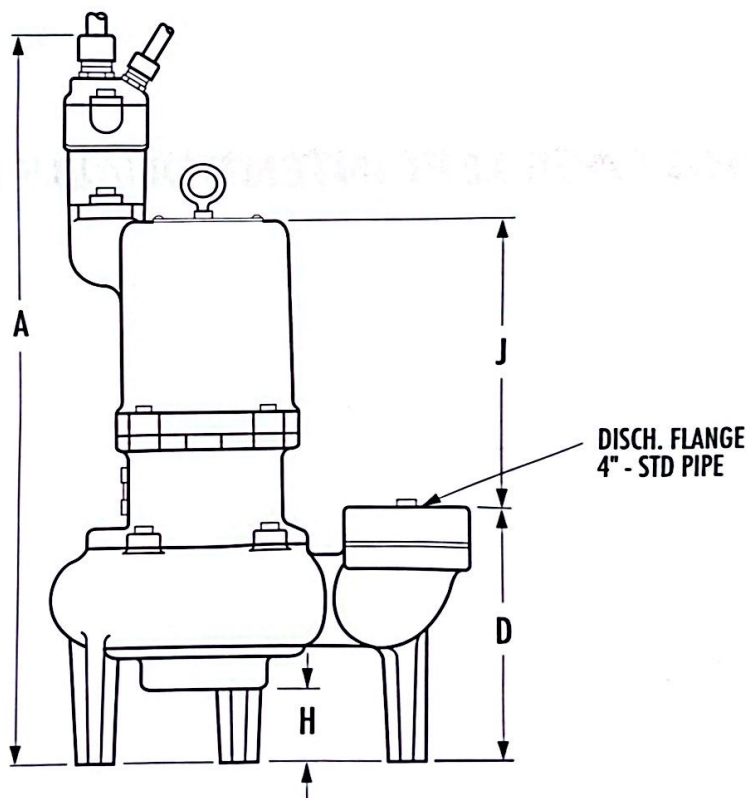
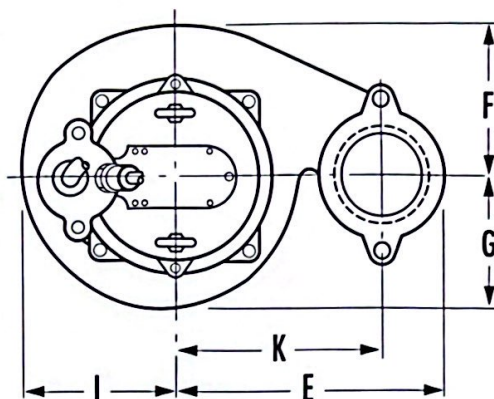
Dimensional Data

S4F/S4HX

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Dated **FEBRUARY 1995**

Supersedes **SEPTEMBER 1993**



S4HX illustrated above

	A	D	E	F	G	H	I	J	K
S4F	28-5/8	10-3/4	12-1/8	7-1/2	6-1/4	3-1/8	7	11-3/16	9-1/4
S4HX	31-3/4	10-3/4	12-1/8	7-1/2	6-1/4	3-1/8	7	12-3/4	9-1/4

ALL DIMENSIONS IN INCHES

NOTE: CASTING DIMENSIONS MAY VARY $\pm 1/8"$

GS **AURORA PUMP**
A UNIT OF GENERAL SIGNAL

HYDROMATIC™ PUMPS

MODEL: S4F & S4HX—Non-Clog Sewage Pump

R.P.M.	1750
MOTOR TYPE	ENCLOSED, OIL COOLED INDUCTION
MOTOR DESIGN NEMA TYPE	B (3Ø) L (1Ø)
GENERAL INSULATION CLASS	B
STATOR WINDING CLASS	F
MAXIMUM STATOR TEMPERATURE	311°F
MOTOR PROTECTION	BI-METALLIC, TEMPERATURE SENSITIVE DISC, SIZED TO OPEN AT 120°C AND AUTOMATICALLY RESET @ 30–35°C DIFFERENTIAL, ONE IN SINGLE PHASE, TWO IN THREE PHASE
VOLTAGE TOLERANCE	±10%

HP	VOLTAGE	PHASE	NEC CODE	SF	FULL LOAD AMPS	SF AMPS	LOCKED ROTOR AMPS	RUN KW	START KVA	RUN KVA	MTR. EFF. @ SF	MTR. EFF. 100% FL	MTR. EFF. 75% FL	MTR. EFF. 50% FL	PWR. FACT. @ SF	PWR. FACT. 100% FL	PWR. FACT. 75% FL	PWR. FACT. 50% FL
2	200	1	J	1.2	14.7	17.0	71.5	2.4	14.3	2.9	.63	.63	.60	.54	.84	.81	.75	.66
	230				12.8	14.8	62											
2	200	3	J	1.2	7.8	8.8	46	2.1	15.9	2.7	.74	.73	.70	.63	.79	.76	.70	.59
	230				6.8	7.7	40											
	460				3.4	3.8	20											
	575				2.7	3.1	16											
3	200	1	G	1.2	19.6	22.9	91.0	3.3	18.2	3.9	.67	.67	.65	.57	.88	.85	.80	.71
	230				17.1	20	79											
3	200	3	J	1.2	10.9	12.8	64.5	3.1	22.3	3.8	.73	.72	.70	.64	.83	.82	.80	.72
	230				9.5	11.1	56											
	460				4.8	5.6	28											
	575				3.8	4.5	22.5											
5	200	1	G	1.2	33.9	39.3	144	5.7	28.8	6.8	.66	.66	.65	.60	.87	.84	.77	.64
	230				29.5	34.2	125											
5	200	3	J	1.2	17.6	20.6	108	4.8	37.4	6.1	.79	.79	.77	.72	.80	.78	.73	.62
	230				15.3	17.9	94											
	460				7.6	8.9	47											
	575				6.1	7.2	37.6											
7½	200	3	K	1.2	29	32.9	194	7.2	67	10.1	.78	.78	.76	.71	.76	.72	.66	.56
	230				25.2	28.6	168											
	460				12.6	14.3	84											
	575				10.1	11.4	67.2											

MODEL: S4F — Standard Non-Clog Sewage Pumps**Physical Data:**

DISCHARGE SIZE	4"
SOLIDS SIZE	3"
IMPELLER TYPE	BALANCED, ENCLOSED, 2 VANE
CABLE LENGTH	30' STANDARD 50' OPTIONAL
PAINT	PAINTED AFTER ASSEMBLY BEFORE TESTING. DARK GREEN, WATER REDUCIBLE ALKYD ENAMEL, ONE COAT, AIR DRIED.

Temperature:

MAXIMUM LIQUID	140°F
MAXIMUM STATOR	311°F
OIL FLASH POINT	390°F
HEAT SENSOR	Open: 257°F MAX./239°F MIN. Closed: 194°F MAX./119°F MIN.

Technical Data:

POWER CORD TYPE		STW-A WATER RESISTANT 600V, 60°C			
SENSOR CORD TYPE		16-4 STW-A WATER RESISTANT 600V, 60°C, 10 AMPS			
MATERIALS OF CONSTRUCTION	MOTOR HOUSING	CAST IRON	ASTM	A-48	CLASS 30
	CASING	CAST IRON	ASTM	A-48	CLASS 30
	IMPELLER	CAST IRON	ASTM	A-48	CLASS 30
	CASING WEAR RING	BRONZE	ASTM	B-584-932	ALLOY 315
	MOTOR SHAFT	303 STAINLESS STEEL			
	HARDWARE	300 SERIES STAINLESS STEEL			
	“O” RINGS	BUNA N			
MECHANICAL SEALS Standard: Optional:		UPPER AND LOWER CARBON/CERAMIC, TYPE 21, BF1C1 LOWER TUNGSTEN CARBIDE/TUNGSTEN CARBIDE, TYPE 21, BD1D1			
UPPER BEARING		(RADIAL) SINGLE ROW — BALL			
LOWER BEARING		(THRUST) SINGLE ROW — BALL			