

## SERIES S | STANDARD CIRCULATORS | SUBMITTAL

File No: 10.50  
 Date: MARCH 01, 2017  
 Supersedes: 10.50  
 Date: DECEMBER 17, 2013

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

### PUMP DESIGN DATA

Pump model: \_\_\_\_\_ Flange size: \_\_\_\_\_  
 No. of pumps: \_\_\_\_\_ Note: \_\_\_\_\_  
 Capacity: \_\_\_\_\_ USgpm (L/s) Head: \_\_\_\_\_ ft (m)  
 Temperature: \_\_\_\_\_ °F (°C) Liquid: \_\_\_\_\_  
 Companion flanges: Included  
 All Bronze Circulators are NSF - 372 rated

### MAXIMUM PUMP OPERATING CONDITIONS

125 psig at 225°F (863 kPa at 107°C)

### OPTIONAL EQUIPMENT

### MATERIALS OF CONSTRUCTION

PART NAME	BRONZE FITTED	LEAD FREE BRONZE*
Pump Body	Cast iron	Lead free Bronze

**Impeller:** Non-ferrous

**Bearings:**  Sleeve - Oil lubricated\*\*  
 Maintenance free - Permanently lubricated\*\*\*

**Seal:** Mechanical

**Stationary seal face:** Sintered silicon carbide

**Coupler:** s25-s46: Flexible, 4 - Spring;  
 s55-s69: Flexible spacer type

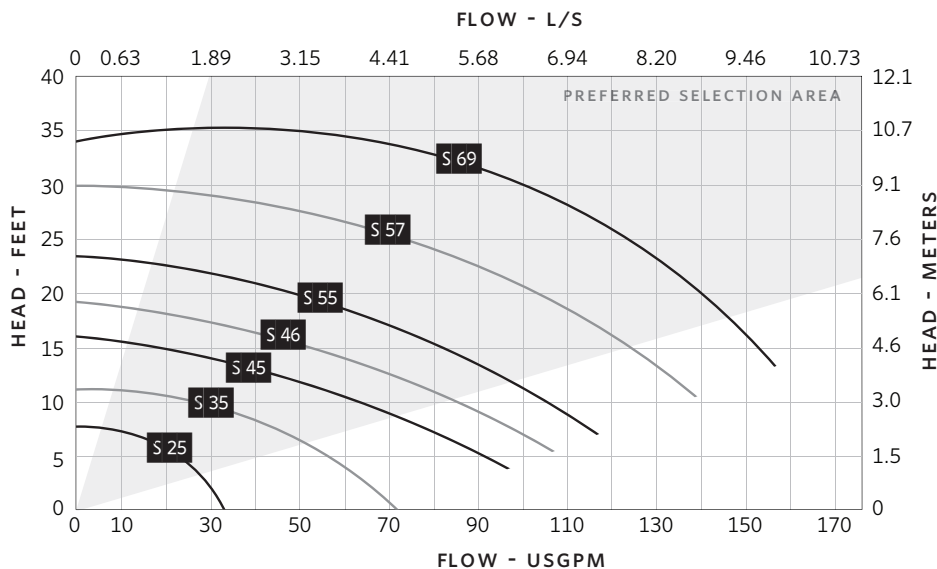
**Motor:** Single phase - 1800 RPM - Resilient mounted  
 Three phase - 1800 RPM - Resilient mounted

\* Contains less than 0.25% lead, weighted average.

\*\* Alloy shaft with copper sleeve.

\*\*\* Stainless steel shaft.

### PERFORMANCE CURVE



Based on 1800 RPM, 60 Hz motors. For 50 Hz motors write for special capacity charts.

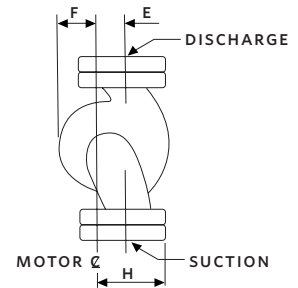
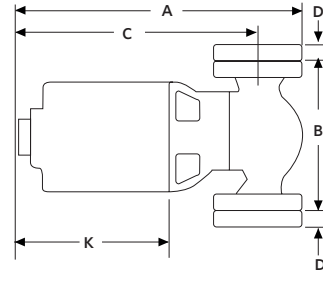
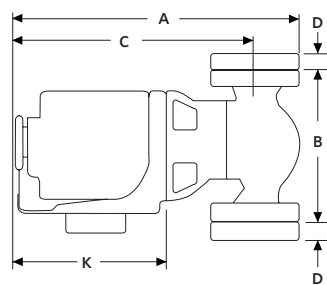
MODEL	FLANGE SIZE (N.P.T)	MOTOR†		DIMENSIONS inches (mm)				WEIGHT lbs (kg)
		HP	PHASE AND VOLT	A	B	C	D	
S25	¾	¼	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.75 (19)	19 (8.6)
	1	¼	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.75 (19)	19 (8.6)
	1¼	¼	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.88 (22)	19 (8.6)
	1½	¼	1 phase 115 v	13.75 (349)	6.50 (165)	11.50 (292)	0.88 (22)	19 (8.6)
S35	2	½	1 phase 115 v	15.00 (581)	8.50 (216)	12.50 (318)	0.88 (22)	38 (17.2)
S45	2½	¾	1 phase 115 v	15.75 (400)	10.00 (254)	12.50 (318)	1.00 (25)	45 (20.4)
	3	¾	1 phase 115 v	15.75 (400)	10.00 (254)	12.50 (318)	1.00 (25)	45 (20.4)
S46	3	¾	1 phase 115 v	15.75 (400)	10.00 (254)	12.50 (318)	1.00 (25)	51 (23.1)
S55	3	½	1 phase 115/230 v	19.50 (495)	12.00 (305)	16.00 (406)	1.00 (25)	82 (37.2)
	3	½	3 phase 208-230/460 v	19.50 (495)	12.00 (305)	16.00 (406)	1.00 (25)	74 (33.6)
	3	½	3 phase 575 v	19.50 (495)	12.00 (305)	16.00 (406)	1.00 (25)	74 (33.6)
S57	3	¾	1 phase 115/230 v	20.00 (508)	12.00 (305)	16.50 (419)	1.00 (25)	82 (37.2)
	3	¾	3 phase 208-230/460 v	20.00 (508)	12.00 (305)	16.50 (419)	1.00 (25)	76 (34.5)
	3	¾	3 phase 575 v	20.00 (508)	12.00 (305)	16.50 (419)	1.00 (25)	76 (34.5)
S69	3	1	1 phase 115/230 v	25.00 (635)	14.25 (362)	20.25 (514)	1.00 (25)	130 (59.0)
	3	1	3 phase 208-230/460 v	25.00 (635)	14.25 (362)	20.25 (514)	1.00 (25)	125 (56.7)
	3	1	3 phase 575 v	25.00 (635)	14.25 (362)	20.25 (514)	1.00 (25)	125 (56.7)

Dimensions shown are for reference only. For exact dimensional data, contact factory.

†All single phase motors are equipped with a built-in thermal overload protection.

Three phase motors require external overload protection.

Conduit box not supplied on ½ hp or greater.



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