PACER°

CLOSE-COUPLED

ELECTRIC

SERIES 'S' SELF-PRIMING CENTRIFUGAL PUMPS

HORIZONTAL . . . LONG or CLOSE COUPLED

for industrial, agricultural and marine use



Glass reinforced — polyester, polypropylene or Ryton® EPDM, Buna-N or Viton® elastomers, and stainless steel or non- metallic fasteners for resistance from chemical attack

(See Chemical Resistance Chart)

- FLOW RATES (electric driven) To 280 U.S. GPM or 120 ft. TDH @ 60 Hz (To 883 LPM or 25.4m TDH @ 50 Hz)
- FLOW RATES (Engine driven) To 290 U.S. GPM or 126 ft. TDH (To 1060 LPM or 38.4m TDH)
- Suction lift to 25 ft. (7.6m) VERTICAL*
- 1-1/2", 2" or 3" NPT ports. All polyester and 2" polypropylene also available with BSP threads.
- **ELECTRIC MOTOR, GASOLINE ENGINE, DIESEL ENGINE, or HYDRAULIC DRIVEN**
- CLOSE-COUPLED, LONG-COUPLED or PEDESTAL MOUNTED
- **BUILT-IN CHECK VALVE FOR QUICK PRIMING**
- Based on water-like liquids at 70°F and at 3450 RPM after initial priming of pump housing.



AQUACULTURE

IRRIGATION AND

SOLUTION TRANSFER



AGRICULTURE



MARINE



PEDESTAL MOUNTED for flexible coupling

HYDRAULIC

GASOLINE ENGINE



LONG COUPLED





INDUSTRIAL AND WASTE TREATMENT

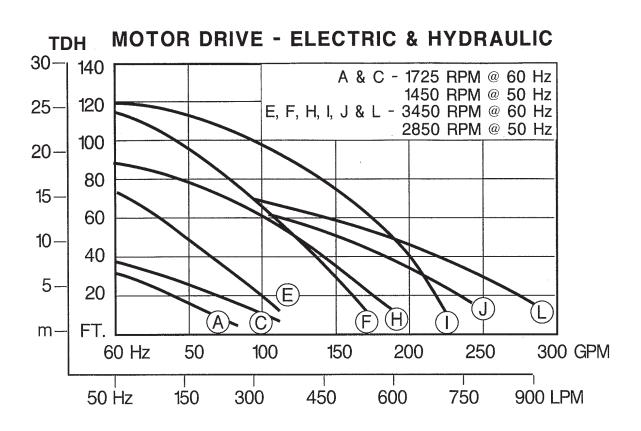


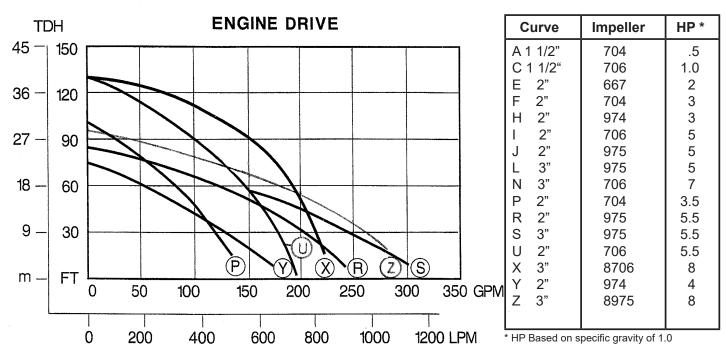
CHEMICAL APPLICATIONS



SPRAY RIG

'S' PUMP FLOW CURVES





POLYESTER PUMPS

PUMP CLOSE-COUPLED TO ELECTRIC MOTOR

FLOW	PORT SIZE	MAXI		MA TE	AX. DH	HP R	EQ'D	MODEL	ELECTRIC MOTOR 60 Hz PRICE ADD TO MODEL &		
CURVE	IN.	GPM @ 60 Hz	LPM @ 50 Hz	FT.	m @	60 Hz /RPM	50 Hz 2850 RPM	MODEL NUMBER	CODE NUMBER	PRICE C 115/230V 1/60 TEFC	ODE NO. 230/460V 3/60 TEFC
А	1½	80	252	30	6.4	.5/1750	.25/1450	SE1½AL-	58-11A4-	G.5C	H.5C
С	1½	120	378	32	6.8	1.0/1750	.5/1450	SE1½CL-	58-11C4-	G1.0C	H1.0C
Е	2	110	346	70	14.8	2/3450	1.1	SE2EL-	58-12E4-	C2.0C	D2.0C
Н	2	180	567	85	18	3/3450	1.7	SE2HL-	58-12H4-	C3.0C	D3.0C
•F	2	160	504	115	24.3	3/3450	2.2	SE2FL-	58-12F4-	C3.0C	D3.0C
J	2	240	756	75	15.9	5/3450	3	SE2JL-	58-12J4-	C5.0C *	D5.0C
•	2	230	725	120	25.4	5/3450	4	SE2IL-	58-1214-	C5.0C *	D5.0C
L	3	280	883	75	15.9	5/3450	4.2	SE3LL-	58-13L4-	C5.0C *	D5.0C

Pump molded of glass reinforced polyester with 316 stainless steel internal fasteners, 304 SS external fasteners, EPDM "O"-rings and gasket, check valve (Viton® available) Polypropylene baseplate, close-coupled electric motor. Also available in polypropylene & Ryton. * 230 Volt only. HP requirements based on specific gravity of 1.0.

PUMP CLOSE-COUPLED TO 12 & 24 VOLT DC MOTORS

FLOW	PORT SIZE	MAXI FLOW	RATE	MA TE	AX. DH	HP	MODEL	PRICE CODE	DC MOTOR ADD TO MODEL & PRICE CODE NO.	
CURVE	IN.	GPM @ 60 Hz	LPM @ 50 Hz	FT. @ 60 Hz	m @ 50 Hz		NUMBER	NUMBER		24V
Α	2	80	252	30	6.4	.5	SE2AB-	58-12A2-	DCV.5C-12	
Α	2	80	252	30	6.4	.5	SE2AB-	58-12A2-		DCV.5C-24
С	2	120	378	32	6.8	1.0	SE2CB-	58-12C2-	DCV1.0C-12	
С	2	120	378	32	6.8	1.0	SE2CB-	58-12C2-		DCV1.0C-24

Pumps close-coupled to DC motors are fitted with Buna-N elastomers only. These pumps are suitable for fresh or saltwater applications. All specifications are based on a specific gravity of 1.0.

PUMP with GASOLINE ENGINE DRIVE

* See page 6 for engines available with electric start option

FLOW CURVE LETTER	PORT SIZE	MA FLO RA)W	MA		SHIPPING WEIGHT		MODEL NUMBER	PRICE CODE NO.	GASOLINE ENGINE ADD TO MODEL & PRICE CODE NO	
LETTER	IN.	GPM	LPM	FT.	m	LBS.	kg.			STANDARD	HEAVY DUTY
Υ	2	170	643	76	23	40	19	SE1½YL-	58-11Y4-	F550	
Р	2	150	568	100	30	40	19	SE2PL-	58-12P4-	-E550	
R	2	230	871	83	25	46	23	SE2RL-	58-12R4-	E950 B&S	E6VCP B&S
U	2	200	757	130	40	46	23	SE2UL-	58-12U4-	E5HOC Honda	E5HCP Honda
S	3	280	1060	83	25	50	24	SE3SL-	58-13S4-		same as above
Х	3	230	871	126	38	70	32	SE3XL-	58-13X4-	N/A	E8VCP
Z	3	290	1102	90	27	70	32	SE3ZL-	58-13Z4-	N/A	EOVUP

Molded of glass reinforced polyester with carrying handle, 316 stainless steel internal and external fasteners. EPDM O-rings and gasket, check valve. (Viton® available) See motor table on page 6 for diesel engine drive. 'S' pumps are also available with 305cc LCT Diesel engine.



^{• &#}x27;F' and 'I' curves limited to 1.0 SG (water). Exceeding 1.0 SG requires next highest horsepower.

PUMP with HYDRAULIC MOTOR



		HYD	RAULI	c @	3450	RPM				
FLOW CURVE LETTER	PORT SIZE	FL(OW TE	MA TC		REQ.	SHIP. WT LBS.	MODEL NUMBER	PRICE CODE NUMBER	ADD TO MODEL & PRICE
	1		LPM	FT.	m	HP				CODE NO.
Е	2	110	416	71	22	2.0	18	SE2EL-	58-12E4-	
F	2	160	605	115	35	5.0	18	SE2FL-	58-12F4-	-HYC
•1	2	230	870	120	37	5.0	18	SE2IL-	58-1214-	-010
J	2	240	908	75	23	5.0	18	SE2JL-	58-12J4-	
L	3	280	1060	75	23	5.0	21	SE3LL-	58-13L4-	



Pump molded of glass reinforced polyester with 316 stainless steel internal fasteners, 304 SS external fasteners, EPDM "O"-rings, gasket and check valve. (Viton® available) Pneumatic driven includes a steel baseplate. Motor shaft is a 316 stainless steel stubshaft. Also available in polypropylene & Ryton. • 'I' curve is limited to 1.0 SG (water). Exceeding 1.0 SG requires next highest HP.

CLOSE COUPLED ELECTRIC POLYPROPYLENE PUMPS

POLYPROPYLENE / VITON®

FLOW	PORT SIZE	MAXI FLOW	MUM RATE		AX. DH	HP REC	QUIRED		PRICE	ELECTRIC MOTOR 60 Hz ADD TO MODEL &		
CURVE		GPM	60 Hz LPM @	FT.	m	60 Hz /RPM	50 Hz /2850 RPM	MODEL NUMBER	CODE NUMBER	PRICE CO 115/230V/1/60 TEFC	DE NO 230/460V/3/60 TEFC	
А	1½	80	252	30	6.4	.5/1750	.25/1450	SPRY1½AV-	58-21A1-	G.5C	H.5C	
С	1½	120	378	32	6.8	1.5/1750	.5/1450	SPRY11/2CV-	58-22C1-	G1.0C	H1.OC	
Е	2	110	346	70	14.8	2/3450	1.1	SPRY2EV-	58-22E1-	C2.OC	D2.OC	
Н	2	180	567	85	18	3/3450	1.7	SPRY2HV-	58-22H1-	C3.OC	D3.OC	
•F	2	160	504	115	24.3	3/3450	2.2	SPRY2FV-	58-22F1-	C3.0C	D3.0C	
J	2	240	756	75	15.9	5/3450	3	SPRY2JV-	58-22J1-	C5.0C	D5.0C	
Ĺ	3	280	883	75	15.9	5/3450	4.2	SPRY3LV-	58-23L1-	C5.0C	D5.0C	

Pump molded of glass-filled polypropylene with glass-filled Ryton® volute, 304 SS external fasteners, Viton® "O"-rings, gasket, check valve, (EPDM available) polypropylene baseplate, close coupled electric motor. • 'F' curve is limited to 1.0 SG (water). Exceeding 1.0 SG requires next highest horsepower.

RYTON PUMPS

RYTON / VITON

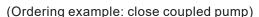
FLOW	PORT SIZE		IMUM RATE		AX. DH	HP REC	UIRED		PRICE	ELECTRIC MOTOR 60 Hz ADD TO MODEL &		
CURVE LETTER	IN.	GPM	60 Hz	FT.	60 Hz m	60 Hz /RPM	50 Hz /2850	MODEL CODE NUMBER NUMBER		PRICE CO 115/230V/1/60	DE NO 230/460V/3/60	
		@ LPM @ @ @ RPM		TEFC	TEFC							
Α	1½	80	252	30	6.4	.5/1750	.25/1450	SY1½AV-	58-31A1-	G.5C	H.5C	
С	1½	120	378	32	6.8	1.5/1750	.5/1450	SY1½CV-	58-32C1-	G1.OC	H1.OC	
Е	2	110	346	70	14.8	2/3450	1.1	SY2EV-	58-32E1-	C2.OC	D2.OC	
Н	2	180	567	85	18	3/3450	1.7	SY2HV-	58-32H1-	C3.OC	D3.OC	
•F	2	160	504	115	24.3	3/3450	2.2	SY2FV-	58-32F1-	C3.0C	D3.0C	
J	2	240	756	75	15.9	5/3450	3	SY2JV-	58-32J1-	C5.0C	D5.0C	
	3	280	883	75	15.9	5/3450	4.2	SY3LV-	58-33 1-	C5.0C	D5 0C	

Pump molded of glass-filled Ryton® with 304 SS external fasteners, Viton® "O"-rings and Ryton gasket, check valve, (EPDM available) polypropylene baseplate, close coupled electric motor. • 'F' curve is limited to 1.0 SG (water). Exceeding 1.0 SG requires next highest horsepower.

'S' PUMP CONSTRUCTION GUIDE (Build a pump for your application)

I. Close coupled pump

- A. Select flow curve
- B. Determine HP required.
- C. Determine materials of construction (consult chemical resistance guide)
- D. Construct pump model and price code numbers using pump table below
- E. Add drive model and price code number suffix from motor table
- F. Order as 1 item.



ITEM	QUANTITY	DESCRIPTION/ MODEL	MODEL NUMBER
1	1	'S' pump, polyester, 2" ports, 'E' impeller, EPDM elastomers. 2.0 HP, 3450 RPM, 230/460/3/60 TEFC motor.	SE2EL D2.0C

II. Long coupled pumps

Pacer 'S' series pumps are also available in a long coupled configuration. The complete unit consists of the pump mounted to a bearing pedestal, flexible coupling and coupling guard and electric motor or gasoline engine, assembled and mounted on an epoxy coated steel base plate.



CONSULT FACTORY FOR CONFIGURATION AND PRICING ASSISTANCE

PUMP TABLE

PUMP MATERIAL

PORT SIZE (NPT) + IMPELLER + ELASTOMERS, SEAL, INTERNAL FASTENERS

PCN	Description: Internals
	Viton® - carbon/ceramic

Series 'S'	Model	PCN				
Polyester	SE	58-1				
Polypro.	SPRY	58-2				
Ryton®	SY	58-3				
External fasteners are 304SS						

Model	PCN	Model & PCN
1½	1	A, C
2	2	E, F, H, I, J, P, R, U, Y
3	3	L, N, S, X, Z

+ MOTOR (see Motor Table on next page)

NOTE:

All 'S' pumps are glass reinforced.

Polypropylene pump includes Ryton® volute. (SPRY)

Volute lining is same as gasket material.

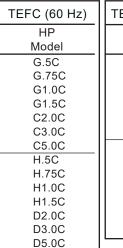
Polypropylene baseplate furnished with close-coupled models and epoxy painted steel with 5 HP close coupled models. For BSP threads, add B in 4th digit of Model No. and change Price Code No. from 1 to 4, 2 to 5, 3 to 6. Note: Impeller designation now becomes the 5th digit of model number only for BSP pumps. (Available with polyester pumps, and

limited polypropylene pumps).

Description: Internals	Model	PCN
Viton® - carbon/ceramic 316SS fasteners, (unlined volute)	V	1
Buna - carbon/ceramic 316SS fasteners, (unlined volute)	В	2
EPDM - carbon/ceramic 316SS fasteners, (unlined volute)	L	4
EPDM - carbon/ceramic, 316SS fasteners, (EPDM lined volute)	LL	5
EPDM SiC Non- metal- lic,(unlined volute)	LN	88
Viton® - SiC non-metallic, (unlined volute)	VN	99

MOTOR TABLE

Electric Motors Close Coupled



TEFC (50 Hz)
HP
Model
A.5C
A.75C
A1.0C
A1.5C
B2.0C
E.5C
E.75C
E1.0C
E1.5C
F1.5C
F2.0C
F3.0C

Electric Motor Key

60 Hz			
G = 1750 RPM 1φ C = 3450 RPM 1φ H = 1750 RPM 3φ D = 3450 RPM 3φ			
50 Hz			
A = 1450 RPM 1φ B = 2850 RPM 1φ E = 1450 RPM 3φ F = 2850 RPM 3φ			
60 Hz 1φ 115/230 50 Hz 1φ 208-230/50 60 Hz 3φ 208/230/460			



ELECTRIC

Gasoline/Diesel Engines

DESCRIPTION	MODEL	PRICE CODE	
LCT MAXX Series OHV Engine 6hp	E5.5	58-0644LCT4	
Briggs & Stratton series 550	E550	58-0634	
Briggs & Stratton series 900	E950	58-0644	
Honda 5hp GC 160 OHC residential	E5HOC	58-0635GC	
* Honda 5.5hp GX 160 OHV commercial	E5HCP	58-0635H	
* Briggs & Stratton 6.5hp Vanguard	E6VCP	58-0646V	
Briggs & Stratton Vanguard 8 HP.	E8VCP	58-0967	

* AVAILABLE WITH ELECTRIC START OPTION



CLOSE-COUPLED

ELECTRIC









Hydraulic Motor

HP	RPM	Req'd PSI	Req'd GPM	Model & PCN
2	3450	500	9	
3	3450	750	9	- HYC
5	3450	1200	9.2	-1110





SERIES 'S' PEDESTAL MOUNTED PUMPS



GENERAL INFORMATION AND POWER REQUIREMENTS

'PE' - plastic pedestal with carbon steel shaft 'CSS' - cast iron pedestal with stainless steel shaft



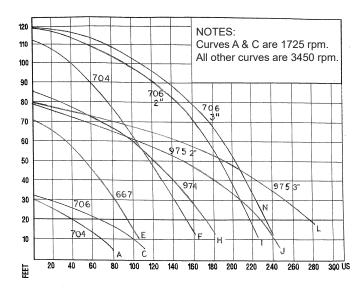
Pacer 'S' series pumps are manufactured in port sizes 1 1/2", 2" and 3" from engineered thermoplastics. These thermoplastics are Poloyester, Polypropylene and Ryton® for pumping water, saltwater, agricultural chemicals and many industrial chemicals.

The power source can be supplied from the factory in the form of electric motors or gasoline and diesel engines. The same power sources may also be supplied and installed by the customer.

All internal and external fasteners are stainless steel. Buna-N, EPDM or Viton® elastomers are available from stock. As pictured above, the Pacer Pedestal Pump is coupled to either a plastic pedestal with carbon steel shaft or a cast iron pedestal with stainless steel shaft.

Pacer pedestal mounted pumps are available with five different impellers, each having different flow characteristics. The chart at left below shows the flow curves for the five impellers operated by 1725 RPM or 3450 RPM, 60Hz electric motors. The curve letters A, C, E, etc. also become part of the model number shown on the chart at right below.

For example, the third model listed, SE2EL has the number 667 impeller and will perform to flow curve E (E is fourth character in model number). The horsepower required is 2.0 at 3450 RPM. Therefore, this pump can be operated efficiently by coupling to a 2 Hp or greater electric motor (3450 RPM) or it can be driven by a 2Hp or larger gasoline engine. The flow curves can be achieved by gas engines operating at typically 3600 RPM. The suction and discharge port size for the first model listed below right is 1 1/2" and the last is 3". The balance of models shown have 2" ports.



PUMP MODEL	CAST IRON PEDESTAL	PLASTIC PEDESTAL	CURVE	IMPELLER	RPM	REQUIRED HP
SE11/2AL SE2CL SE2EL SE2FL SE2HL SE2HL SE2IL SE2JL SE3LL SE3NL	CSS CSS CSS CSS CSS CSS CSS CSS CSS	PE PE PE PE PE PE PE PE PE	A B E F T _ J L Z	704 706 667 704 974 706 975 975 706	1725 1725 3450 3450 3450 3450 3450 3450 3450	.5 1.0 2.0 3.0 3.0 5.0 5.0 5.0

- For a complete model number add pump model and desired pedestal.
- · Example: SE2EL CSS
- Plastic pedestal (PE) not recommended for side loading



IMPROVED 'S' SERIES

Division of ASM Industries, Inc.

Series S Self-Priming Centrifugal Pumps

Series "S" Self-Priming Centrifugal Pumps are lightweight, corrosion resistant pumps for general service on water, salt water, and many agricultural chemicals. They feature stainless steel internal fasteners, or non-metallic solution contact Viton, EPDM or Buna-N "O"—rings and gasket, with stainless steel external fasteners. The pumps are molded of tough, glass reinforced polyester, polypropylene or Ryton. Polyester models are available with or without lined volute for abrasion resistance.

All pumps include a built-in check valve, feature easy servicing, and during pumping, a self-cleaning double volute keeps pump free of settled solids.

Mechanical Shaft Seal: Self-lubricating ceramic and carbon faces (silicon carbide optional) with stainless steel case and spring. (Hastelloy C and non-metallics available.)

Horizontal...Long or close-coupled

For industrial, agricultural and marine use

 Choice of materials— Pump constructed of: Polyester polypropylene—or Ryton

Optional elastomers and stainless steel or non-metallic fasteners available for chemical applications.

(Refer to our chemical resistance chart)

- Flow rates (electric driven)
 To 280 U.S. GPM or 120 ft. TDH
 (To 883 LPM or 25.4 TDH)
- Flow rates (fuel driven)
 To 280 U.S. GPM or 126 ft. TDH
 (To 1060 LPM or 38.4m TDH)
- Suction lift to 25 ft. (7.6m) vertical
- 11/2", 2" or 3" ports, NPT and BSP (polyester)
- Electric motor, gasoline engine, hydraulic or pneumatic driven
- Close-coupled, long-coupled or pedestal mounted
- Built-in check valve: Prevents backflow and siphoning and allows for faster priming



PACER PUMPS

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