

## PERFORMANCE DATA FOR HYDRAULIC AND PNEUMATIC DRIVEN 'S' PUMPS

CURVE	IMPELLER	RPM	ACTUAL REQUIRED HP	PORT SIZE
<b>HYDRAULIC MOTOR CURVES</b>				
E	667	3450	1.7	1½", 2"
F	704	3450	3.6	1½", 2"
H	974	3450	3.1	1½", 2"
I	706	3450	6.6	1½", 2"
J	975	3450	5.0	1½", 2"
L	975	3450	5.0	3"
<b>PNEUMATIC MOTOR CURVES</b>				
E	667	2900	1.0	1½", 2"
F	704	2900	2.1	1½", 2"
H	974	2900	1.8	1½", 2"
I	706	2900	3.9	1½", 2"
J	975	2900	2.9	1½", 2"
L	975	2900	2.9	3"

**NOTE:** Actual required horsepowers noted are the maximum required at the designated RPM when pumping water (specific gravity = 1.0). For horsepower requirements of other liquids, multiply the specific gravity of the liquid to be pumped times the actual required horsepower and select the next higher standard horsepower motor.

The maximum horsepower requirement mentioned above occurs at the right end of the curve. For horsepower requirements at a particular point on the curve, consult the Sales Department.

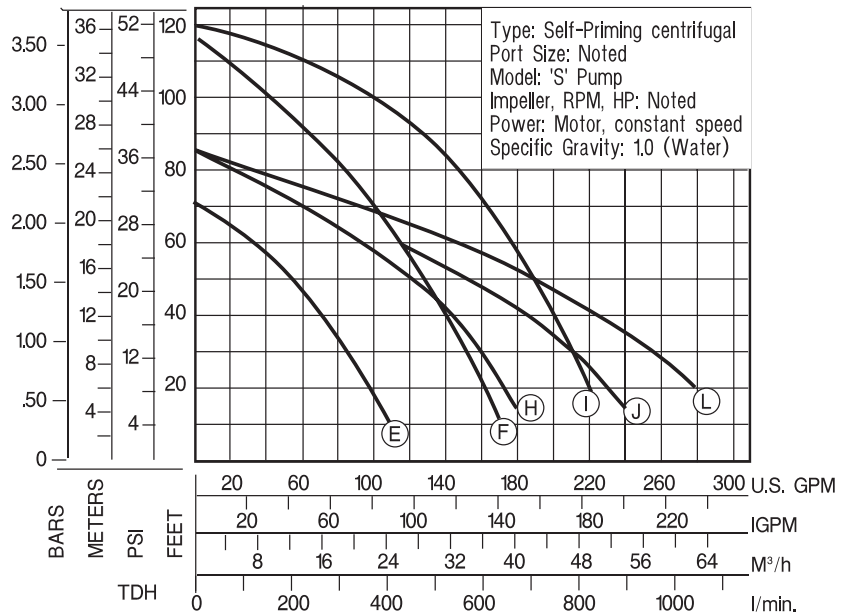
### HYDRAULIC MOTOR REQUIREMENTS

RPM	HP	HYDRAULIC FLUID REQUIRED (GPM)	FLUID PRESSURE REQUIRED (PSI)
3450	2	9	500
3450	3	9	750
3450	5	9.2	1200
3450	7	9.5	1550

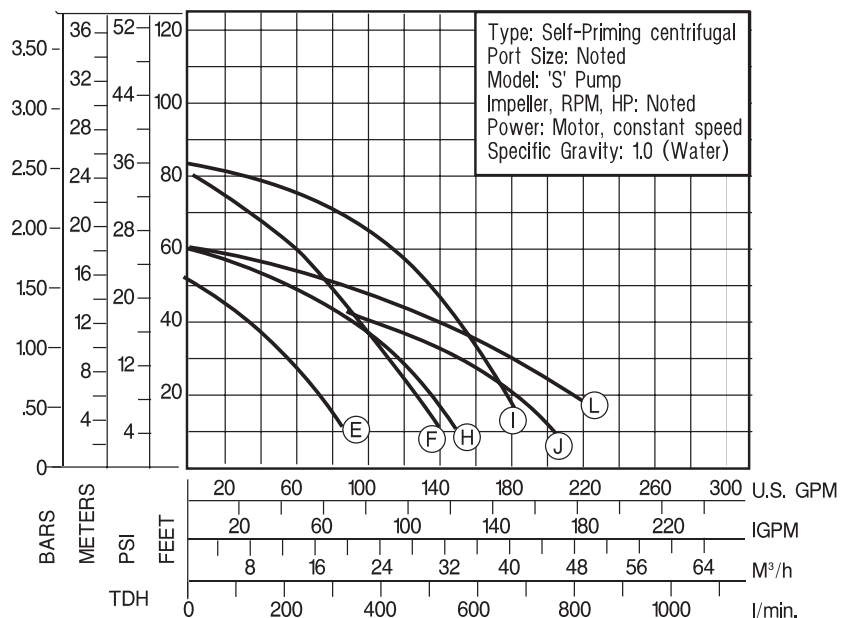
### PNEUMATIC MOTOR REQUIREMENTS

RPM	HP	AIR VOLUME REQUIRED (Ft³/min.)	AIR PRESSURE REQUIRED (PSI)
1750	.5	25	20
1750	1	38	37
2900	1	45	27
2900	2	70	49
2900	3	100	74
2900	4	130	102

### HYDRAULIC DRIVEN PUMPS PERFORMANCE CURVES 3450 RPM



### PNEUMATIC DRIVEN PUMPS PERFORMANCE CURVES 2900 RPM



# SERIES 'S' PEDESTAL MOUNTED PUMPS

## GENERAL INFORMATION AND POWER REQUIREMENTS



**SERFILCO Series 'S' Pedestal Pumps** are manufactured in port sizes of 1½", 2" & 3" from engineering thermoplastics; namely polyester, polypropylene and Ryton®, for pumping water, salt water, agricultural chemicals and many industrial chemicals.

The power source can be supplied by our factory in the form of electric motors or gasoline engines. Other available power sources, such as hydraulic and pneumatic motors, are normally direct coupled. These 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, the SERFILCO Pedestal Pump is mounted on a plastic pedestal. Also available is a heavy duty cast iron pedestal with a stainless steel shaft.

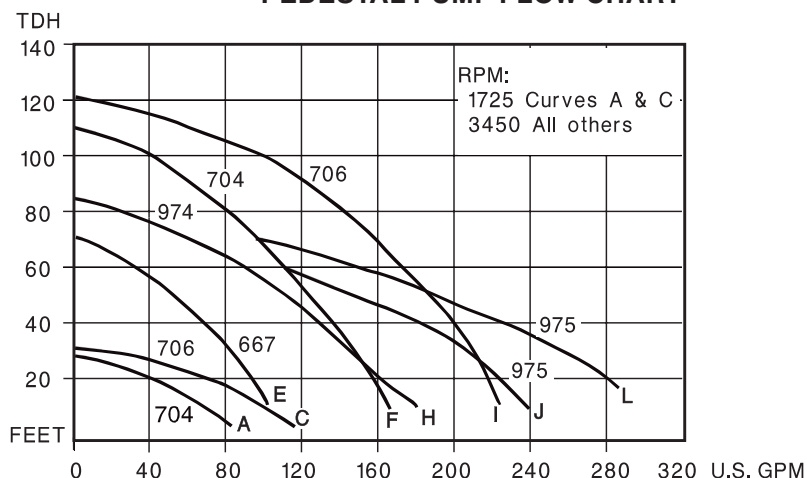
SERFILCO Pedestal Mounted Pumps are available with five different impellers, each having different flow characteristics. As the number of vanes on the impeller and its width and diameter vary, the power required to operate the pump at maximum flow also varies. The chart below gives flow curves for the five impellers (impeller part numbers are 667, 704, etc.) operated by 1725 RPM or 3450 RPM, 60Hz, electric motors. The curve letters A, C, E, etc. also become part of the pedestal pump model number shown on the chart below.

For example, the third model listed, SE2EL PE, has the number 667 impeller and will perform to flow curve E (E is the fourth character of the model number). The horsepower required is 1.7 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 2 HP or larger gasoline engine. The flow curves can be achieved by gas engines operating at typically 3600 RPM.

Consult Sales Department for assistance.

Registered trademarks: Ryton - Phillips Chemical; Viton - DuPont Dow Elastomers

### SERIES 'S' PEDESTAL PUMP FLOW CHART



### SERIES 'S' PEDESTAL PUMP POWER REQUIREMENTS

PEDESTAL PUMP MODEL NO.	CURVE	IMPELLER	RPM	ACTUAL REQUIRED HP	ELECTRIC MOTOR HP	GAS ENGINE HP	SUCTION & DISCHARGE PORT SIZE
SE1½ALPE	A	704	1725	.4	.5	5 or 8	2"
SE2CL PE	C	706	1725	.9	1.0	3.5 or 5	2"
SE2EL PE	E	667	3450	1.7	2.0	3.5 or 5	2"
SE2FL PE	F	704	3450	3.6	5.0	3.5 or 5	2"
SE2HL PE	H	974	3450	3.1	3.0	5 or 8	2"
SE2IL PE	I	706	3450	6.6	7.5	5 or 8	3"
SE2JL PE	J	975	3450	5.0	5.0	5 or 8	3"
SE3LL PE	L	975	3450	5.0	5.0	1½"	2"



# SERFILCO, LTD.

1777 Shermer Road Northbrook, IL 60062-5360 U.S.A.  
Email: sales@serfilco.com  
www.serfilco.com

847-559-1777  
800-323-5431  
FAX: 847-559-1995