

## Corrosion proof submerged pumps

### ALL PVDF (KYNAR®) - ALL POLYPROPYLENE

The CAMAC centrifugal submerged pump provide the means to safe, efficient handling of highly corrosive solutions, including acids, strong alkaline solutions and all plating solutions. Fluid being pumped never contacts any metal.

### NO SEALS - NO PACKING GLAND - NO LEAKAGE

Unique design of the CAMAC submerged pump features only 3 major parts and eliminates the need for seals and packing gland (the trouble areas where leaks are most likely to occur, you can even run the pump dry).

### NO WEAR - NO ABRASION

Because there is no moving contact between parts in a CAMAC submerged pump, wear caused by abrasion is eliminated, thereby assuring long, trouble free operation.

### MINIMUM MAINTENANCE - LONG SERVICE LIFE

CAMAC submerged pumps simply mount on the edge of the tank and operate inside or outside the tank. Flow rates range from 10 to 120 GPM at pressures up to 60 feet. Pump is close coupled to either a 1/2, 3/4, 1-1/2 or 2 hp TEFC heavy duty motor as a standard unit.

### IMPORTANT

The CAMAC centrifugal submerged pump is fitted with either a threaded or hose nozzle overflow discharge connection. When pump is mounted out of tank spillage due to back pressure can be eliminated by directing the overflow piping back to the tank.

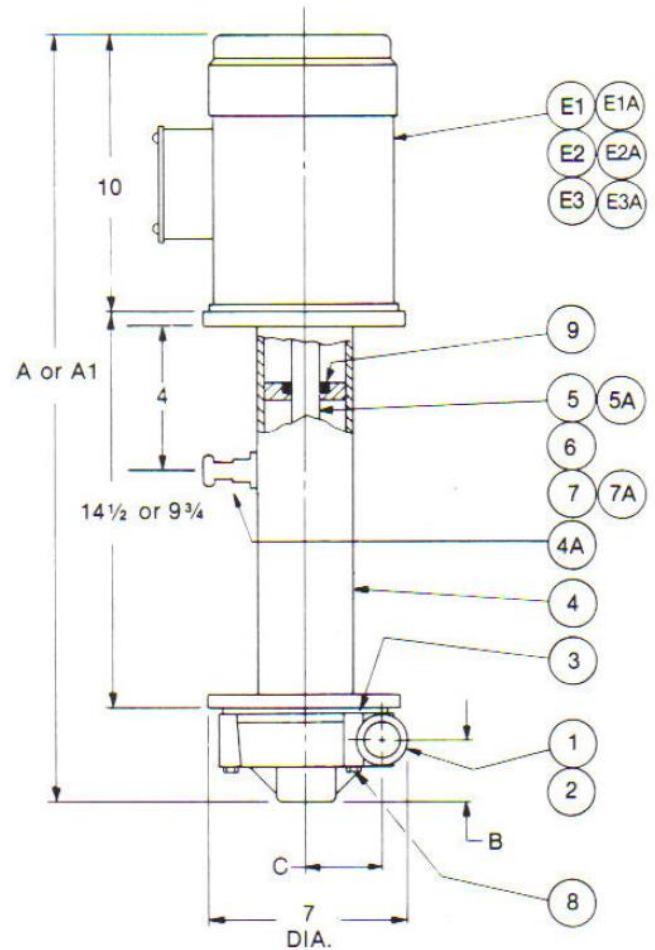
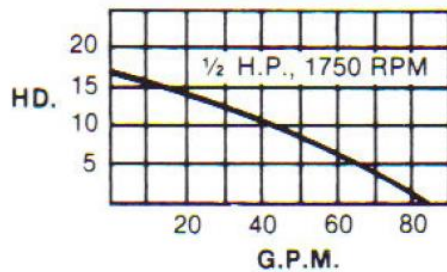


MODEL	PORTS	HP	MAXIMUM FLOW	MAXIMUM HEAD
SM 5	1 1/4" x 1 1/4"	1/2	45 GPM	28 FT HD
SM 10	1 1/2" x 1 1/2"	1/2	85 GPM	17 FT HD
SM 15	1 1/4" x 1 1/4"	3/4	65 GPM	36 FT HD
SM 20	1 1/4" x 1 1/4"	1	67 GPM	43 FT HD
SM 25	1 1/2" x 1 1/2"	1 1/2	80 GPM	47 FT HD
SM 30	1 1/2" x 1 1/2"	2	110 GPM	60 FT HD

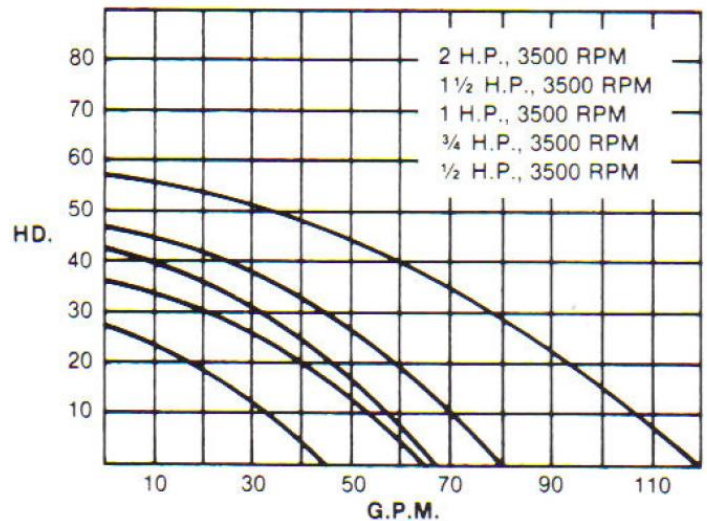
ITEM NO.	PART NO.	DESCRIPTION
1	SM(P)(DF)(VC)-1, 10, 25 or 30	Volute Case
2	SM(P)(DF)(VC)-2-5,15 or 20	Volute Case
3	SM(P)(DF)(VC)-3	Gasket
4	SM(P)(DF)(VC)-4	Draft Tube w/Bolts
4A	-	Overflow Fitting
5	SM(P)(DF)(VC)-5-10	Impeller Assembly
5A	SM(P)(DF)(VC)-5-5	Impeller Assembly
6	SM(P)(DF)(VC)-5-15 or 20	Impeller Assembly
7	SM(P)(DF)(VC)-5-30	Impeller Assembly
7A	SM(P)(DF)(VC)-5-25	Impeller Assembly
8	SM(P)(DF)(VC)-6	Hex Head Cap Screws
9	SM(P)(DF)(VC)-7	Vapor Seal
E1	-	Motor 1/2 H.P. - 1750 RPM 230/460/3/60 TEFC
E1A	-	Motor 1/2 H.P. - 3500 RPM 230/460/3/60 TEFC
E2	-	Motor 3/4 H.P. - 3500 RPM 230/460/3/60 TEFC
E2A	-	Motor 1 H.P. - 3500 RPM 230/460/3/60 TEFC
E3	-	Motor 1 1/2 H.P. - 3500 RPM 230/460/3/60 TEFC
E3A	-	Motor 2 H.P. - 3500 RPM 230/460/3/60 TEFC
Model SM(P)(DF)(VC)-5 - 1/2 H.P. (3500 RPM)		Complete Unit
Model SM(P)(DF)(VC)-10 - 1/2 H.P. (1750 RPM)		Complete Unit
Model SM(P)(DF)(VC)-15 - 3/4 H.P.		Complete Unit
Model SM(P)(DF)(VC)-20 - 1 H.P.		Complete Unit
Model SM(P)(DF)(VC)-25 - 1 1/2 H.P.		Complete Unit
Model SM(P)(DF)(VC)-30 - 2 H.P.		Complete Unit

SMP denotes Polypropylene  
SMDF denotes Kynar  
SMVC denotes CPVC

MODEL	DIMENSION A	A1	B	C	SUCTION DISCHARGE
SM(P)(DF)(VC)-5,15 or 20	28 inches	23	2 5/8	2 1/4	1 1/2" NPT
SM(P)(DF)(VC)-10, 25 or 30	29 inches	24	3	2 1/2	1 1/2" NPT



## CPVC - KYNAR - POLYPROPYLENE PERFORMANCE CURVES



# Corrosion proof submerged pumps

## ALL CPVC - ALL PVDF (KYNAR®) - ALL POLYPROPYLENE

The CAMAC centrifugal submerged pump provide the means to safe, efficient handling of highly corrosive solutions, including acids, strong alkaline solutions and all plating solutions. Fluid being pumped never contacts any metal, only corrosion proof CPVC, PVDF (Kynar®) or polypropylene. Capable of handling liquids at operating temperature up to 300°F (149°C) with PVDF (Kynar®), 200°F(93°C) with CPVC and 180°F (82°C) with polypropylene.

## NO SEALS - NO PACKING GLAND - NO LEAKAGE

Unique design of the CAMAC submerged pump features only 3 major parts and eliminates the need for seals and packing gland (the trouble areas where leaks are most likely to occur, you can even run the pump dry).

## NO WEAR - NO ABRASION

Because there is no moving contact between parts in a CAMAC submerged pump, wear caused by abrasion is eliminated, thereby assuring long, trouble free operation.

## MINIMUM MAINTENANCE - LONG SERVICE LIFE

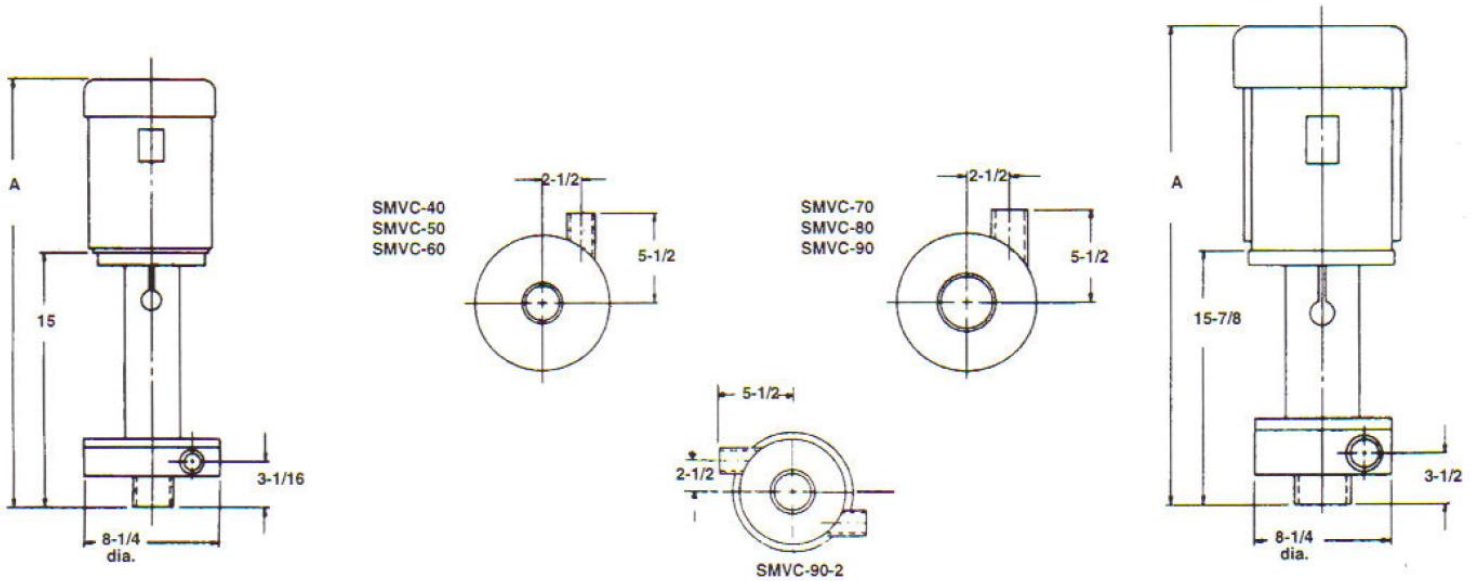
CAMAC submerged pumps simply mount on the edge of the tank and operate inside or outside the tank. Flow rates range from 10 to 360 GPM at pressures up to 140 feet. Pump is close coupled to either a 2, 3, 5 or 7.5 hp TEFC heavy duty motor as a standard unit.

## DESIGN OF THE UNIT IS AS FOLLOWS:

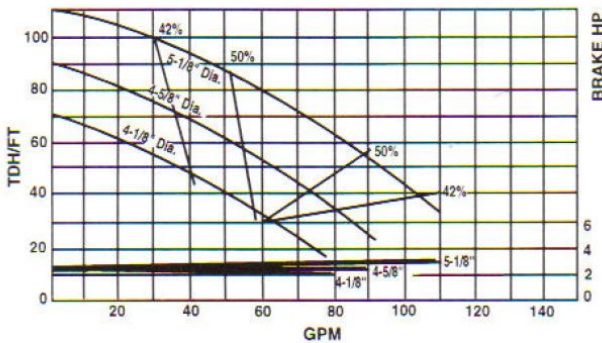
- A. All non-metallic wetted parts in contact with solution constructed of CPVC, PVDF (Kynar®) or polypropylene.
- B. All hardware in contact with solution to be stainless steel.
- C. O-rings to be FKM(Viton®).
- D. Motor TEFC heavy duty (other motors available upon request).
- E. Semi-opened impeller with curved vanes to reduce flow up draft tube and provide greater pumping efficiency.
- F. True venturi type volute case.
- G. Heavy-duty balanced shaft, T303 stainless steel, encased in non-metallic sleeve to protect shaft from contact with solution.
- H. Heavy duty volute and draft tube designed to prevent deflection when pump is running.







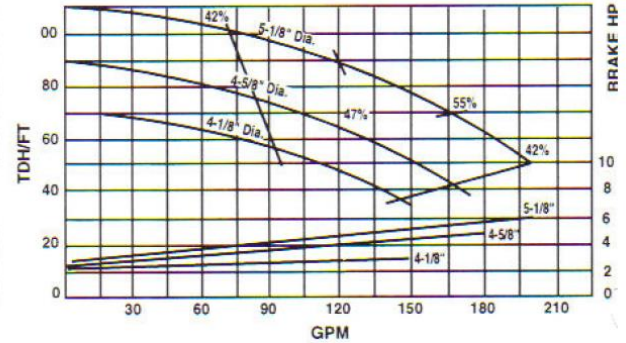
**1-1/4 x 2 PUMP PERFORMANCE CURVE**



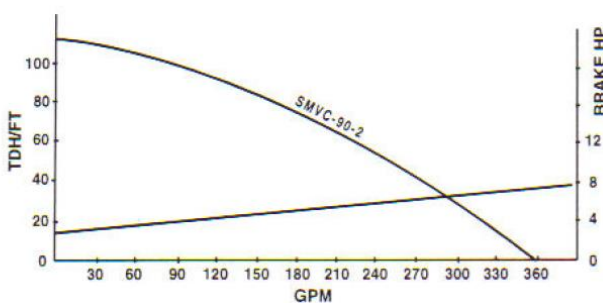
**NOTE:** Within the final 5 psi a minimum amount of solution will discharge thru overflow port. This eliminates damage to pump caused by excessive cavitation.

Install by-pass with larger pump or call CAMAC for information on our line of horizontal transfer pumps.

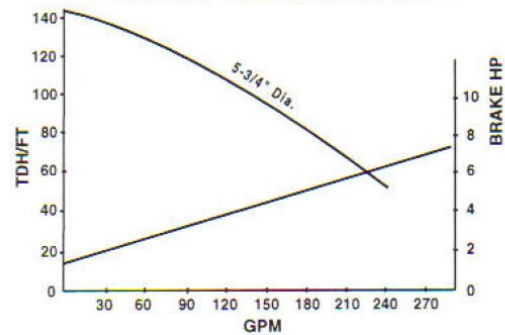
**2 x 3 PUMP PERFORMANCE CURVE**



**2 x 2 x 3 PUMP PERFORMANCE CURVE**



**2 x 3 x 5.75 PUMP PERFORMANCE CURVE**



Pump Model	H.P.	RPM	Suction	Discharge	A Dim.
SMVC-40	2	3500	2"	1-1/4"	27"
SMVC-50	3	3500	2"	1-1/4"	27"
SMVC-60	5	3500	2"	1-1/4"	27-1/2"
SMVC-70	3	3500	3"	2"	28-3/8"
SMVC-80	5	3500	3"	2"	28-3/8"
SMVC-90	7.5	3500	3"	2"	30-1/4"
SMVC-90-2	7.5	3500	3"	2"(x2)	30-1/4"
SMVC-90-5.75	7.5	3500	3"	2"	30-1/4"