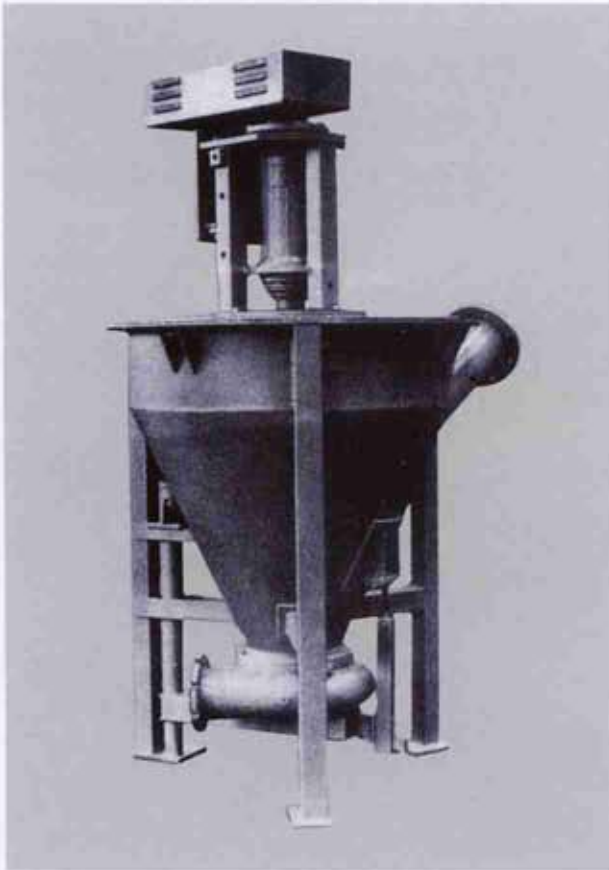


MBE SLURRY PUMP

Cone Pump Type SPVC



Purpose built for frothy suspensions

MBE cone pump is designed to increase the pumpability of frothy suspensions. The principle of operation is partly similar to that of cyclone separation. Air is separated from the slurry in a vortex created by the impeller rotation and the tangential inlet to the pump's conical sump. This results in a more efficient pumping at higher capacities and smoother operation.

SIMPLE INSTALLATION

Because the pump, the sump and the motor are integrated to one unit, there is no levelling or special foundation required.

NO STUFFING BOX

The pumps operate without stuffing box or other submerged shaft seals, which further simplifies maintenance and eliminates any requirement for seal water.

BEARINGS

The robust bearing assembly is fitted with grease lubricated roller bearings. All bearings are rated for more than 60,000 running hours and are placed well above the slurry level.

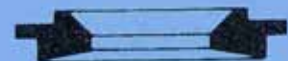
WEAR PARTS

Standard wear parts are available in soft natural rubber or Hi-chrome alloy. The design of the MBE pumps allows combination of different wear part materials to be used in order to optimize the service life of the wear parts. The SPVC pumps have a built in raise and lowering mechanism for the pump casing to enable the wear parts to be easily accessible. The largest pumps, however, require an external lifting device.

MBE has a long and varying experience in the pumping of frothy liquids. With our wide equipment range, we can assist in solving your particular pumping problem.

WEAR PARTS IN THE SPVC - PUMP

Inlet



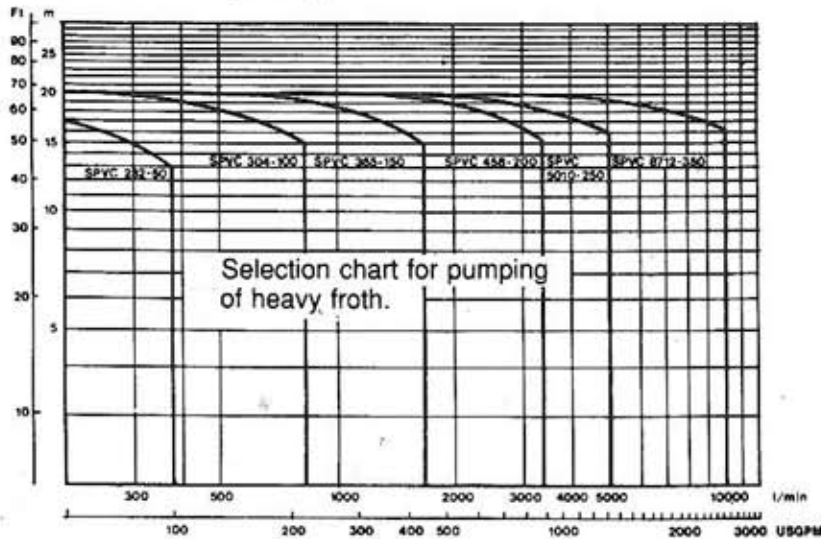
Impeller



Pump casing or lining



Selection of pump size



Motor Size

Motor Size and V-belt drive varies with the pump application.
Necessary data for stating pump speed and motor power are:
Flow (l/min, GPM or alike)
Liquid density (kg/m³)
Total discharge head (m. ft)

Definition of pump

SPVC is the type designation and the figures state the size according to the following

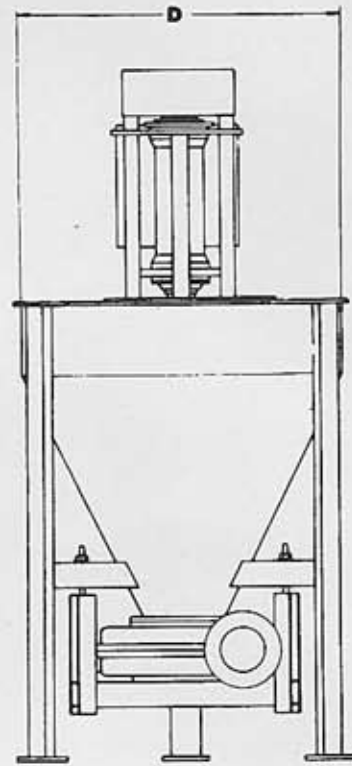
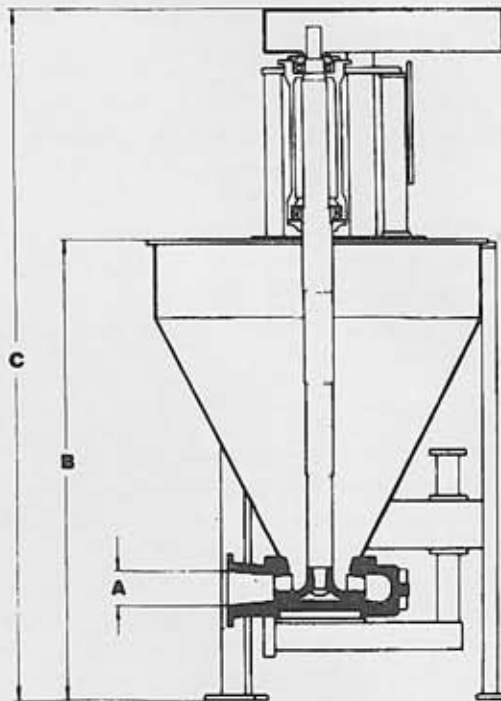
45 8 - 200

Impeller dia. in cm

Height of vanes in cm.

Discharge connection in mm

Dimensions mm



Dimensions given are approximate and subject to alteration without prior notice

Pump size	Discharge A	B	C	D	Sump volume m ³	Max. motor size		Weight excluding motor and drive Rubber wear parts kg
						IEC	kW	
SPVC 232-50	50	1000	1600	800	0.14	132 M	7.5	340
SPVC 304-100	100	1730	2700	1400	0.82	225 M	45	900
SPVC 365-150	150	1730	2700	1400	0.82	225 M	45	1000
SPVC 458-200	200	2500	3760	1850	2.3	315 S	110	2500
SPVC 5010-250	250	2500	3760	1850	2.3	315 S	110	2700
SPVC 8712-350	350	2900	4500	2700	5	315 MA	132	6400

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MBE SLURRY PUMPS

Cone Pump Type SPVC

PURPOSE BUILT FOR FROTHY SUSPENSIONS

MBE CONE PUMP IS DESIGNED TO INCREASE THE PUMPABILITY OF FROTHY SUSPENSIONS. THE PRINCIPLE OF OPERATION IS PARTLY SIMILAR TO THAT OF CYCLONE SEPARATION. AIR IS SEPARATED FROM THE SLURRY IN A VORTEX CREATED BY THE IMPELLER ROTATION AND THE TANGENTIAL INLET TO THE PUMP'S CONICAL SUMP. THIS RESULTS IN A MORE EFFICIENT PUMPING AT HIGHER CAPACITIES AND SMOOTHER OPERATION.

SIMPLE INSTALLATION

Because the pump, the stump and the motor are integrated to one unit, there is no levelling or special foundation required.

NO STUFFING BOX

The pumps operate without stuffing box or other submerged shaft seals, which further simplifies maintenance and eliminates any requirement for seal water.

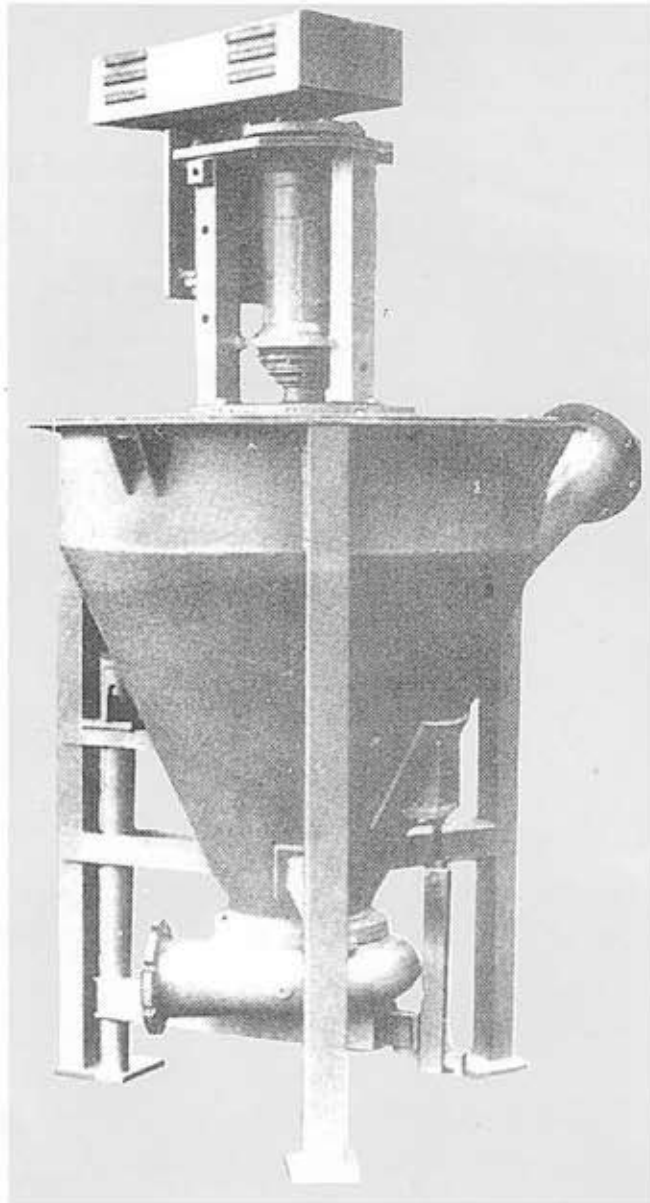
BEARINGS

The robust bearing assembly is fitted with grease lubricated roller bearings. All bearings are rated for more than 60,000 running hours and are placed well above the slurry level.

WEAR PARTS

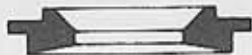
Standard wear parts are available in soft natural rubber or Ni-hard alloy. For special applications wear parts of silicon carbide or synthetic rubber are available. The design of the MBIL pumps allows combination of different wear part materials to be used in order to optimize the service life of the wear parts. The SPVC pumps have a built in raise and lowering mechanism for the pump casing to enable the wear parts to be easily accessible. The largest pumps, however, require an external lifting device.

MBE HAS A LONG AND VARYING EXPERIENCE IN THE PUMPING OF FROTHY LIQUIDS. WITH OUR WIDE EQUIPMENT RANGE, WE CAN ASSIST IN SOLVING YOUR PARTICULAR PUMPING PROBLEM.



WEAR PARTS IN THE SPVC - PUMP

Inlet



Impeller



Pump casing
or lining

