



The SALA Series of Svedala Vertical Sump Pumps



Rubber Lined & Hard Metal Vertical Sump Pumps

All Svedala Sump Pumps are designed specifically for abrasive slurries and feature robust design with ease of maintenance.

Developed from the old SALA sump pump, Type VASA G, the Svedala Type VS is the next generation heavy duty sump pump.

Like its predecessor, the VS sump pump range is one of the strongest, toughest and most reliable ranges available on the market. For this reason the range is preferred throughout the world by most heavy industries.

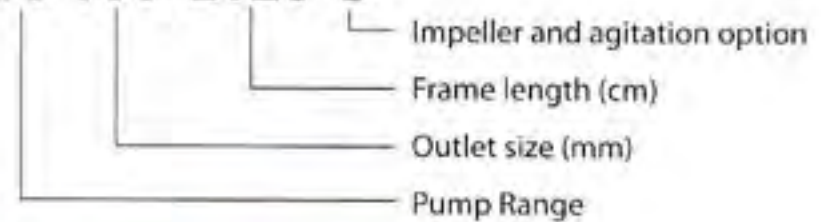
Summary of Design Features

- Simple installation
- Cantilever design without submerged bearings or shaft seal

- Bearing assembly with double protection sealing arrangement to prevent ingress of slurry
- Materials used are the very best available, providing both excellent wear properties and corrosion resistance
- Wear parts are available in a variety of different materials and fully interchangeable

Pump Designation

VS 100 L120 S



Details of Design Features

Simple Installation

With small sump pumps the recommended way of installation is to suspend the pump in the sump by the lifting yoke provided. Larger units are normally bolted to a permanent base plate. Pump bearings are located in a housing above the base plate for accessibility and protection. These pumps can run dry. Pumps with metal pump parts for unlimited length of time. Special designs giving extended length, with the bearings below the base plate, are available on request.

Impeller and Agitation Options

Four different impeller and agitation options are available for optimum performance.

Type S - Semi-open impeller and pump casing with spray holes. The semi-open impeller provides better solids handling than the closed impeller design and is less sensitive to air blocking on intermittent operations. The spray holes direct some of the slurry towards the sump bottom, thereby agitating settled solids.

Type A - Semi-open impeller and robust extended shaft with a slurry agitator. This design is best suited for coarse rapid settling solids and dredging applications.

Type S



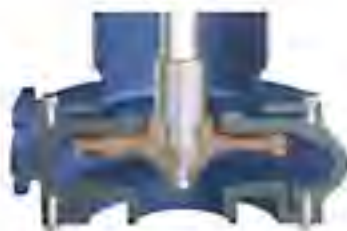
Type A



Type W - Vortex induced flow impeller for non-clog pumping of long, fibrous or coarse solids. It can be fitted into a casing with or without spray holes.

Type C - Closed impeller for high heads and efficiencies.

Type W



Type C



Cantilever Design

The heavy duty pump shaft is of cantilever design, hanging below the bearing housing. There are no submerged bearings, stuffing box or shaft seals. This design ensures minimum maintenance and eliminates the need for water flushing.

Bearing Assembly

The pump shaft is carried in rigid grease lubricated roller bearings. Impeller clearance is maintained by external axial adjustment of the shaft/bearing assembly. Bearings have double protection against ingress of slurry.

Wet End

The "wet end" parts have large material sections for extra long wear life and are designed for the toughest of applications. Single volute and generous solids passage through the pump ensure safe and clogless operation.

Materials

Standard pumps are supplied with parts in wear resistant ElastaWear (natural rubber) or MetaChrome (high chrome iron alloy, with a nominal hardness of 600 BHN).

Other wear part materials available include elastomers in the SVEDALA range of Elasta natural rubbers or Mero range of synthetic rubbers and polyurethane.

The wear parts have large material sections for extra long wear life and are designed for the toughest applications.



Options :

- Various materials including synthetic rubbers, and polyurethane.
- "Wet end" types S, A, W and C, see page 3
- Base Plate / Mounting Plate and Discharge Piping
- Suction Pipe / Strainer
- Extended Frame
- Drive options:
 - Standard vertically mounted, shaft up
 - Elevated motor mounting
 - Direct in line drive

Typical Installations

- Floor sumps in process plants
- Mill scale pumping
- Pumping of machine tool cuttings
- Wood chips pumping

Drive

Pumps are supplied with a Vee-belt drive, motor and drive guard. The motor is mounted vertically, with shaft up, on an adjustable motor plate fitted along side the bearing housing.

Motor Size

Motor size and Vee-belt drive vary with the pump application. Minimum data required for an approximate pump, speed and drive motor selection are:

- Slurry flow rate
- Slurry density,
- Total discharge head.

Other Pump Products

- **XR, HR, MR** Rubber Lined Pumps
- **XM, HM, MM** Hard Metal Pumps
- **VT** Vertical Integral Tank Pumps
- **VF** Vertical Froth Pumps

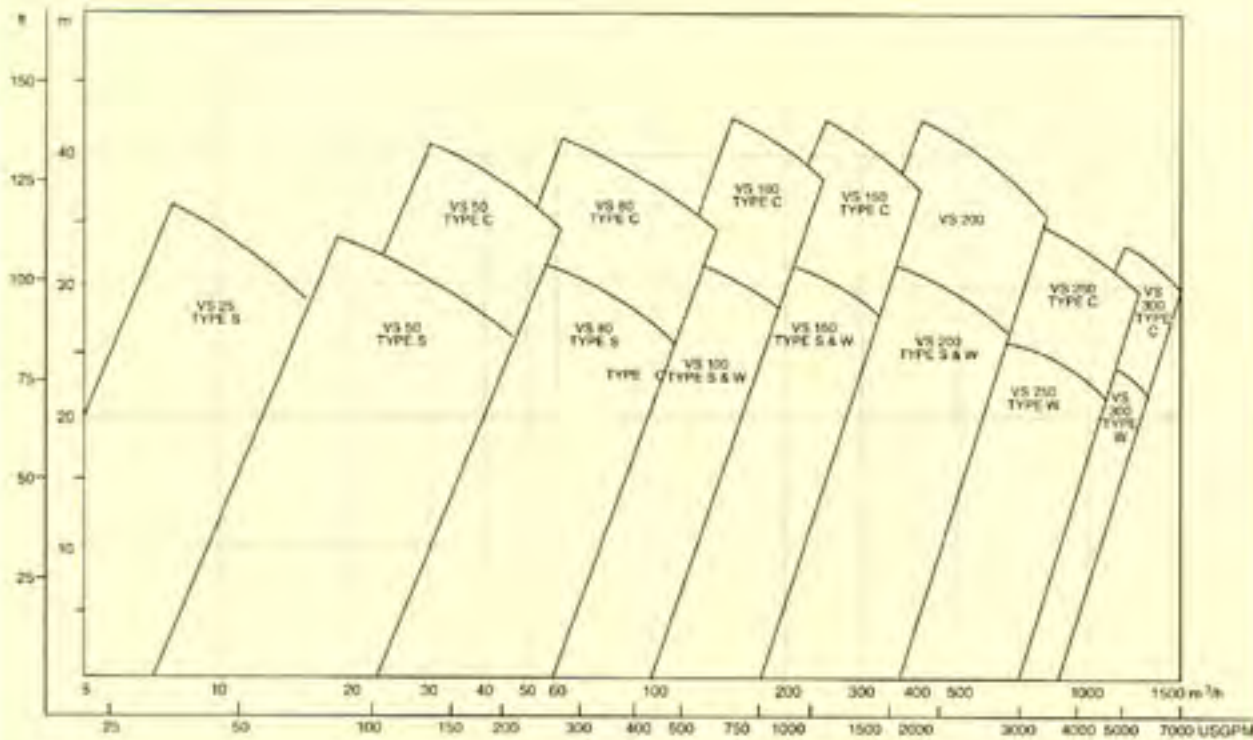


VS100-L120 pumps on a tunnel dewatering service.

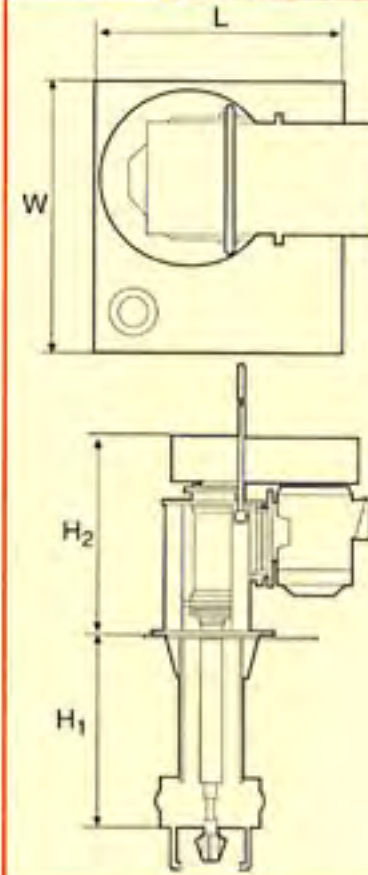


VS250, E240 with extended frame.

Selection of Pump Size



Pump Dimensions



Pump Size	Outlet	H1		H2		L		W		Weight	
		mm	inch	mm	inch	mm	inch**	mm	inch**	kg	lb***
VS25	1*	80	3	570	22,5	450	18	450	18	135	298
VS25	1	120	5	860	34	450	18	450	18	350	772
VS25	1	150	6	860	34	450	18	450	18	375	827
VS25	1	180	7	860	34	450	18	450	18	395	871
VS50	2	80	3	570	22,5	600	23,5	600	23,5	225	496
VS50	2	120	5	860	4	600	23,5	600	23,5	480	1 058
VS50	2	150	6	860	4	600	23,5	600	23,5	510	1 124
VS50	2	180	7	860	4	600	23,5	600	23,5	540	1 190
VS80	3	80	3	870	34,3	600	23,5	600	23,5	435	959
VS80	3	120	5	975	38	600	23,5	600	23,5	545	1 201
VS80	3	150	6	975	38	600	23,5	600	23,5	580	1 289
VS80	3	180	7	975	38	600	23,5	600	23,5	615	1 356
VS100	4	80	3	850	33,5	750	29,5	600	23,5	465	1 025
VS100	4	120	5	960	38	750	29,5	600	23,5	575	1 268
VS100	4	150	6	960	38	750	29,5	600	23,5	610	1 345
VS100	4	180	7	960	38	750	29,5	600	23,5	645	1 422
VS150	6	120	5	965	38	900	35,5	800	31,5	690	1 521
VS150	6	150	6	1 285	50,5	900	35,5	800	31,5	1 410	3 108
VS150	6	180	7	1 285	50,5	900	35,5	800	31,5	1 465	3 230
VS200	8	120	5	1 285	50,5	1 200	47	900	35,5	1 675	3 693
VS200	8	150	6	1 285	50,5	1 200	47	900	35,5	1 725	3 803
VS200	8	180	7	1 285	50,5	1 200	47	900	35,5	1 775	3 913
VS250	10	150	6	1 420	56	1 360	53,5	1 220	48	2 200	4 850
VS250	10	180	7	1 420	56	1 360	53,5	1 220	48	2 280	5 026
VS300	12	150	6	1 420	56	1 400	55	1 400	55	2 350	5 150
VS300	12	180	7	1 420	56	1 400	55	1 400	55	2 425	5 346

*VS25 / 1: VS = Vertical sump, 25 (1) = outlet mm / inch

** LxW is base plate dimension (optional). Optional mounting plate incl. discharge pipe also available.

** Weight figures are for metal parts. For rubber parts reduce weight by 10%.