



SOLIDSVAC[®]

SOLIDS PUMPiNG SYSTEMS

2023
SOLIDSVAC
CATALOGUE



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PUMPS

SV10-AIR FOX BOREHOLE PUMP

- Fully Automatic
- 100% Air Operated
- Lightweight (15kg)
- Full 316 Stainless Steel
- No Internal Moving Parts
- Ultra Low Air Consumption



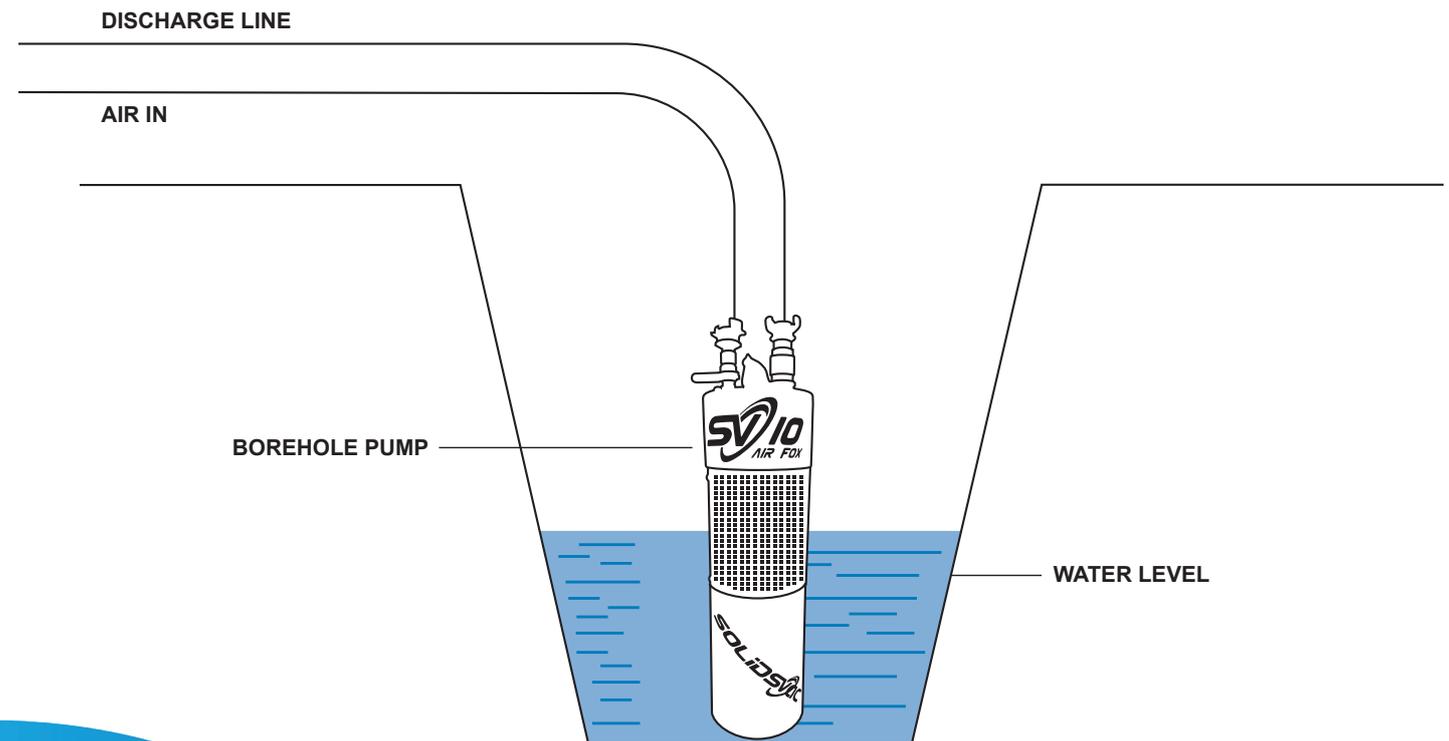
SV10-AIR FOX

Borehole Pump

The SV10 – Air Fox is a 100% air operated bore hole pump that features no float or internal moving parts. The Air Fox is cunning in its use of compressed air requiring just 10 cfm to discharge only when full. The SV10 is ideal in scavenger applications, low flow sumps and can save up to 90% of the compressed air typically used by a two inch diaphragm pump.

Fully automatic in operation and manufactured in 316 stainless steel, the SV10 Air Fox will save you compressed air.

TECHNICAL DATA	METRIC	US IMPERIAL
Height	600 mm	23.6"
Diameter	200 mm	7.8"
Weight	15 kg	33 lb
Air Requirement	0.283 m ³ /min @ 5 Bar	10 cfm @ 100 Psi
Air Inlet	13 mm	1/2" BSP
Discharge Outlet	25 mm	1"
Water Throughput	60 lpm	15.8 gpm



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SOLIDS PUMPING SYSTEMS

SV20-SP

Vacuum Loading Solids Pump

- Mobile
- Air Operated
- Low Maintenance



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SV20-SP

Vacuum Loading Solids Pump

The Solidsvac SV20-SP is a compact, mobile vacuum loading solids pump capable of capturing and transferring up to 12,000 litres per hour of almost any flowable material with entrained particles to 35mm. The SV20-SP has no internal workings and also features a 316 stainless steel tank, adjustable cycle time, versatile Jetpack and puncture proof tyres as standard.

Individually adjustable load and discharge cycles, intrinsically safe, combined with 316 stainless steel valves that delivers low wear and high serviceability, for applications in the mining, drilling, industrial and agricultural industries.

TECHNICAL DATA	METRIC	US IMPERIAL
Height	920 mm	36"
Width	550 mm	22"
Length	1000 mm	40"
Weight	55 kg	120 lb
Air inlet	13 mm	1/2" BSP
Suction inlet	50 mm	2"
Discharge outlet	50 mm or 75 mm	2" or 3"
Suction lift	6.5m @ 50 cfm 8.0m @ 100 cfm	21'3" @ 50 cfm 26'2" @ 100 cfm
Air consumption options	1.4 m ³ Jetpack 2.8 m ³ Jetpack	50 cfm Jetpack 100 cfm Jetpack
Delivery	300+ m	1150+ ft
Displacement cycle	17 ltr	4.5 gal
Operating pressure	7 bar (max) @ 690 kPa 4.5 bar (min) @ 448 kPa	105 psi (max) 65 psi (min)
Maximum solids	35 mm	1-1/2"
Measured water throughput	200 lpm	53 gpm
DBA reading	78 Dba (50 cfm) 85 Dba (100 cfm)	

GENERAL USAGE

- Mining
- Drilling
- Industrial
- Agricultural
- Municipal

APPLICATIONS INCLUDE

- Drilling mud waste
- Abrasive slurries
- Sump slimes
- Mine tailings
- Wet spills

OPTIONAL ACCESSORIES

- Suction wand
- Suction hose
- Discharge hose
- Duck bill vacuum head
- Large capacity strainer
- Dropbox

- Vessel and valves manufactured in 316 stainless steel
- Individually adjustable load and discharge cycles



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SOLIDS PUMPING SYSTEMS

SV70-SPDK

Vacuum Loading Solids Pump

- Extra Heavy Duty
- Air Operated-Vacuum Loading
- High Solids Content Transfer



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SV70-SPDK

Vacuum Loading Solids Pump

The Solidsvac SV70-SPDK is designed to reliably handle any flowable sludge and slurry and is ideally suited where submersible, centrifugal and diaphragm pumps are not a viable option.

Designed to offer the operator a one man vacuum recovery pressure discharge unit capable of recovering and transferring almost any flowable material, the extra heavy duty twin 75mm (3") suction and discharge knife gate valves deliver outstanding performance in the capture and transfer of heavy flowable sludges with high solids content.

100% air powered, the all new compact, fully automatic, robust and fully mobile SV70-SPDK, generates 22.5"Hg+ of vacuum and can be used in a wide range of applications including mining and industrial.

TECHNICAL DATA	METRIC	US IMPERIAL
Height	1150 mm	45"
Width	650 mm	25.5"
Length	1240 mm	48.5"
Weight	130 kg	287 lb
Air inlet	13 mm	1/2" BSP
Suction inlet	75 mm	3"
Discharge outlet	75 mm or 100 mm	3" or 4"
Suction lift	7.9m @ 100 cfm 9.2 @ 180 cfm 11.5m @ 230 cfm	26' 2" @ 100 cfm 30' @ 180 cfm 37' 7" @ 230 cfm
Air consumption options	2.8 m ³ /Min Jetpack 5.0 m ³ /Min Jetpack 6.5 m ³ /Min Jetpack	100 cfm Jetpack 180 cfm Jetpack 230 cfm Jetpack
Delivery	400+ m	1312+ ft
Displacement cycle	65 ltr	17 gal
Operating pressure	7 bar (max) @ 690 kPa 4.5 bar (min) @ 448 kPa	100 psi (max) 65 psi (min)
Maximum solids	50 mm	2"
Measured water throughput	400 lpm	106 gpm

- Vessel and valves manufactured in 316 stainless steel
- Individually adjustable load and discharge cycles

GENERAL USAGE

- Mining
- Drilling
- Industrial
- Agricultural
- Municipal

APPLICATIONS INCLUDE

- Drilling mud waste
- Corrosive slurries
- Noxious waste
- Mine tailings
- Raw effluent

OPTIONAL ACCESSORIES

- Suction wand
- Suction hose
- Discharge hose
- Duck bill & Vacuum head
- Large capacity strainer
- Dropbox
- Delivery carousel



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SOLIDSVAC[®]

SOLIDS PUMPING SYSTEMS

SV100-SPDK

Vacuum Loading Solids Pump

- Extra Heavy Duty
- Air Operated-Vacuum Loading
- High Solids Content Transfer



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SV100-SPDK

Vacuum Loading Solids Pump

The Solidsvac SV100-SPDK is designed to reliably handle any flowable sludge and slurry and is ideally suited where submersible, centrifugal and diaphragm pumps are not a viable option.

Designed to offer the operator a one man vacuum recovery pressure discharge unit capable of recovering and transferring almost any flowable material, the extra heavy duty twin 100mm (4") suction and discharge knife gate valves deliver outstanding performance in the capture and transfer of heavy flowable sludges with high solids content.

100% air powered, the all new compact, fully automatic, robust and fully mobile SV100-SPDK, generates 22.5"Hg+ of vacuum and can be used in a wide range of applications including mining and industrial.

TECHNICAL DATA	METRIC	US IMPERIAL
Height	1150 mm	45"
Width	700 mm	27.5"
Length	1300 mm	51"
Weight	200 kg	440 lb
Air inlet	25 mm	1" BSP
Suction inlet	100 mm	4"
Discharge outlet	100 mm	4"
Suction lift	7.9 m @ 100 cfm 9.2 @ 180 cfm 11.5 @ 230 cfm	26' 2" @ 100 cfm 30' @ 180 cfm 37' 7" @ 230 cfm
Air consumption options	2.8 m ³ /Min Jetpack 5.0 m ³ /Min Jetpack 6.5 m ³ /Min Jetpack	100 cfm Jetpack 180 cfm Jetpack 230 cfm Jetpack
Delivery	400+ m	1312+ ft
Displacement cycle	90 ltr	23 gal
Operating pressure	7 bar (max) @ 690 kPa 4.5 bar (min) @ 448 kPa	100 psi (max) 65 psi (min)
Maximum solids	75 mm	3"
Measured water throughput	500 lpm	132 gpm

- Vessel and valves manufactured in 316 stainless steel
- Individually adjustable load and discharge cycles

GENERAL USAGE

- Mining
- Drilling
- Industrial
- Agricultural
- Municipal

APPLICATIONS INCLUDE

- Drilling mud waste
- Corrosive slurries
- Noxious waste
- Mine tailings
- Raw effluent

OPTIONAL ACCESSORIES

- Suction wand
- Suction hose
- Discharge hose
- Duck bill & Vacuum head
- Large capacity strainer
- Dropbox
- Delivery carousel

SOLIDSVAC[®]

SOLIDS PUMPING SYSTEMS

SV200-SPDK

Vacuum Loading Solids Pump

- Intrinsically Safe
- 100% Compressed Air Operation
- High Solids Content Transfer



SV200-SPDK

Vacuum Loading Solids Pump

The Solidsvac SV200-SPDK is a truly versatile vacuum loading solids pump. Manufactured in 316 stainless steel, it is lightweight and mobile yet able to capture and transfer viscous high SG slurries whilst remaining a one man or fully automatic operation.

The low air consumption, high vacuum venturies engineered by Solidsvac Pumps ensure high educated airflows which means high educated airflow providing outstanding pulling power. The SV200-SPDK also features as an optional extra, the air-assist gravity inlet which can accommodate high volume direct feed for rapid hopper transfer of materials ranging from drill cuttings to sugar. The Solidsvac SV200-SPDK is the true BRUTE when it comes to versatile solids pumps.

TECHNICAL DATA	METRIC	US IMPERIAL
Height	1350 mm	53"
Width	900 mm	35.5"
Length	1560 mm	61"
Weight	315 kg	617 lb
Air inlet	40 mm	1-1/2" BSP
Suction inlet	100 mm	4"
Discharge outlet	100 mm	4"
Suction lift	9.2 m @ 180 cfm 11.5 @ 230 cfm	30' @ 180 cfm 37' 7" @ 230 cfm
Air consumption options	5.0 m ³ /Min Jetpack 6.5 m ³ /Min Jetpack	180 cfm Jetpack 230 cfm Jetpack
Delivery	500+ m	1640+ ft
Displacement cycle	190 ltr	50 gal
Operating pressure	7 bar (Required) @ 690 kPa	100 psi (Required)
Vacuum Options	73 to 86.5 kPa	21.5" to 25.5" Hg
Maximum solids	65 mm	2-1/2"
Measured water throughput	620 lpm	163 gpm

- Vessel and valves manufactured in 316 stainless steel
- Individually adjustable load and discharge cycles
- As supplied in crash frame with fork access as standard
- Puncture proof tyres available as optional extra
- Suction Lifts indicated require 7 bar (100 psi) operating pressure

GENERAL USAGE

- Mining
- Drilling
- Industrial
- Petrochemical
- Municipal

APPLICATIONS INCLUDE

- Thickener desludge
- Heavy crude transfer
- Hazardous waste recovery
- Transfer of mine slurries
- Raw effluent pond desludging

OPTIONAL ACCESSORIES

- Suction wand
- Suction hose
- Discharge hose
- Duck bill vacuum head
- Large capacity strainer
- Dropbox
- Delivery carousel



SOLIDSVAC®

SOLIDS PUMPING SYSTEMS

SV150-CVCD

Continuous Vacuum Loading Solids Pump

- Intrinsically Safe
- 100% Compressed Air Operation
- High Solids Content Transfer



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SV150-CVCD

Continuous Vacuum Loading Solids Pump

The Solidsvac SV150-CVCD is a truly versatile continuous vacuum loading solids pump, manufactured using 316 stainless steel vessels and valves as standard. The SV 150-CVCD can be supplied as fixed or mobile plant. This fully automatic unit can generate vacuum up to 24.5" Hg - 83 kPa and be utilised manned or unmanned to capture and transfer viscous high SG slurries. The SV150-CVCD can also be fitted with a Direct Feed Hopper (below image) ensuring a constant flow of material. When transferring drill cuttings, the SV150-CVCD with the Direct Feed Hopper, can operate as both Primary and Back Up removing the need for both Pit and backhoe.

TECHNICAL DATA

	METRIC	US IMPERIAL
Height	1260 mm	47"
Width	980 mm	38.5"
Length	1500 mm	60"
Weight	600 kg	1322 lb
Air inlet	50 mm	2" BSP/NPT
Suction inlet	75 mm	3"
Discharge outlet	75 mm	3"
Suction lift	7.9m @ 100 cfm 9.2m @ 180 cfm 11.5m @ 230 cfm	26' 2" @ 100 cfm 30' @ 180 cfm 37' 7" @ 230 cfm
Air consumption options	2.8 m ³ /Min Jetpack & 2.8 m ³ /Min Discharge 5.0 m ³ /Min Jetpack & 2.8 m ³ /Min Discharge 6.5 m ³ /Min Jetpack & 2.8 m ³ /Min Discharge	100 cfm Jetpack & 100 cfm Discharge 180 cfm Jetpack & 100 cfm Discharge 230 cfm Jetpack & 100 cfm Discharge
Delivery	500+ m	1640+ ft
Displacement cycle	130 ltr	34 gal
Operating pressure	7 bar (Required) @ 690 kPa	100 psi (Required)
Unit Requirements	5.6 m ³ /Min or 7.8 m ³ /Min or 9.3 m ³ /Min	200 cfm or 280 cfm or 330 cfm
Maximum solids	55 mm	2.5"
Measured water throughput	800 lpm (130 cfm)	211 gpm (130 cfm)

GENERAL USAGE

- Mining
- Drilling
- Industrial
- Petrochemical
- Municipal

APPLICATIONS INCLUDE

- Drill cuttings transfer
- Thickener desludge
- Hazardous waste recovery
- Transfer of mine slurries
- Raw effluent pond desludging

OPTIONAL ACCESSORIES

- Suction wand
- Suction hose
- Discharge hose
- Duck bill vacuum head
- Large capacity strainer
- Dropbox
- Delivery carousel

- No internal workings. Cannot be damaged dry running
- Adjustable load cycles times
- Supplied on skids with fork access and certified lifting points as standard
- Wheels with puncture proof tyres are available as an optional extra
- Suction Lifts indicated require 7 bar (100 psi) operating pressure

Direct Feed Hopper
Shown Here



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SOLIDS PUMPING SYSTEMS

SV440-CVCD

Continuous Vacuum Loading Solids Pump

- Intrinsically Safe
- 100% Compressed Air Operation
- High Solids Content Transfer
- Up to 60m³/hr



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SV440-CVCD

Continuous Vacuum Loading Solids Pump

The SV440-CVCD "Great White" is as the name suggests, the top of the range in constant flow solids pumps. Delivering 25"Hg + of vacuum enabling it to recover and transfer up to 60m³/hr of most flowable solids laden materials over 1000 metres. The SV440 can be fixed or mobile and features full 316 vessels and valves as standard. The SV440 is available in a range of air configurations to suit your application and is ideal for high volume tailings pond/lagoon desludging, tank cleaning and high flow, high lift applications in excess of 25 metres.

The SV440-CVCD is the "Great White" providing constant flow via its 100mm (4") inlet and outlet manifolds ensuring the maximum recovery and transfer rates are readily achievable.

TECHNICAL DATA

	METRIC	US IMPERIAL
Height	1600 mm	63"
Width	1270 mm	50"
Length	2010 mm	79"
Weight	1000 kg	2204 lb
Air inlet	50 mm	2" BSP/NPT
Suction inlet	100 mm	4"
Discharge outlet	100 mm	4"
Suction lift	25m @ 380 cfm* 35m @ 600 cfm	57' @ 380 cfm 88' @ 600 cfm
Air consumption options	10.7 m ³ /Min Jetpack & 5.6 m ³ /Min Discharge 16.9 m ³ /Min Jetpack & 5.6 m ³ /Min Discharge	380 cfm Jetpack & 180 cfm Discharge 600 cfm Jetpack & 180 cfm Discharge
Delivery	500+ m	1640+ ft
Displacement cycle	420 ltr	34 gal
Operating pressure	7 bar (Required) @ 690 kPa	100 psi (Required)
Unit Requirements	15.8 m ³ /Min or 22.1 m ³ /Min	560 cfm or 780 cfm
Maximum solids	80 mm	3"
Measured water throughput	1000 lpm (380 cfm)	264 gpm (380 cfm)

GENERAL USAGE

- Mining
- Drilling
- Industrial
- Petrochemical
- Municipal

APPLICATIONS INCLUDE

- Drill cuttings transfer
- Thickener desludge
- Hazardous waste recovery
- Transfer of mine slurries
- Raw effluent pond desludging

OPTIONAL ACCESSORIES

- Suction wand
- Suction hose
- Discharge hose
- Duck bill vacuum head
- Large capacity strainer
- Dropbox
- Delivery carousel

*All suction lifts indicated are ambient air assisted

- No internal workings. Cannot be damaged dry running
- High volume throughput
- Supplied on skids with fork access and certified lifting points as standard
- Suction Lifts indicated require 7 bar (100 psi) operating pressure



ACCESSORIES

SOLIDSVAC[®]

SOLIDS PUMPING SYSTEMS

SV-VP Vac-Pack

The Vac-Pack is a 100% compressed air powered mobile unit designed to deliver a continuous 25" Hg of vacuum with high in-line airflows. When combined with vacuum rated skips or tanks, the Vac-Pack can provide operators an economical alternative to using vac-trucks in certain applications.

- Delivers Continuous High Vacuum
- Exceptionally Low Maintenance
- Compact and Highly Mobile
- Available in 230/380/600/900/1200 CFM
- Intrinsically safe



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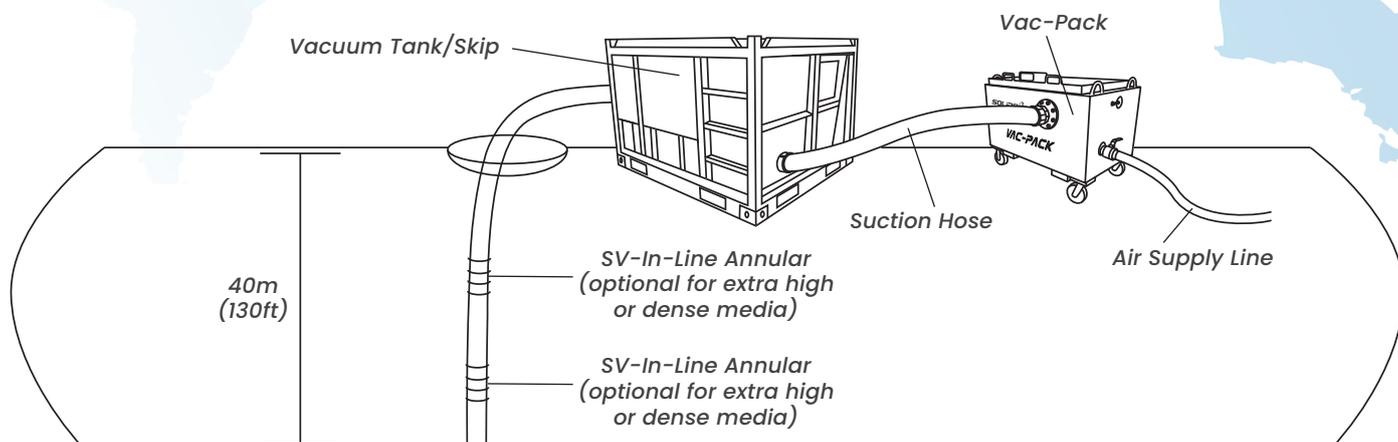
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SV-VP Vac-Pack

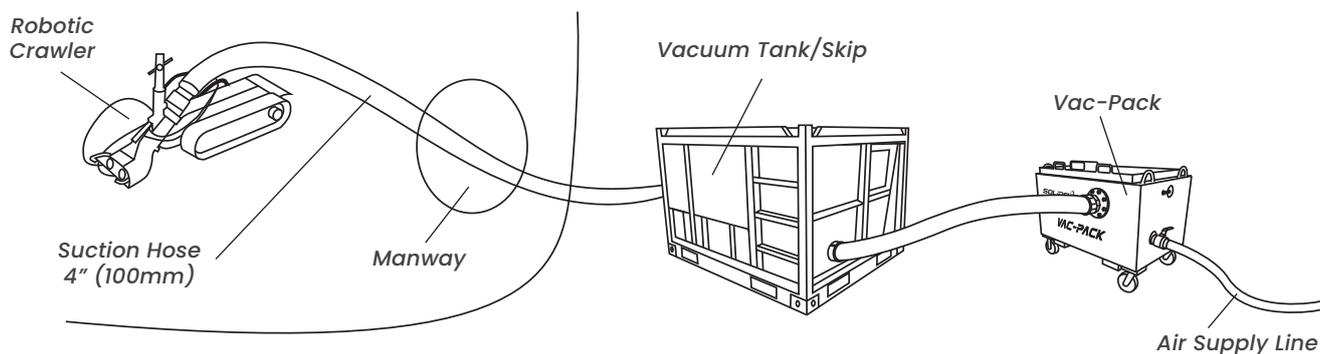
Vac-Pack Applications

When combined with Solidsvac performance enhancing accessories, the Vac-Pack is fully capable of generating vertical lifts in excess of 40 metres. A low cost, highly productive Vac-Pack is a must for those involved in FPSO and storage tank cleaning, high volume or restricted access desludging operations.

Vac-Pack High Lift Application



Vac-Pack Robotic Crawler Application



TECHNICAL INFORMATION

	METRIC	US IMPERIAL
Length	1350 mm	53"
Width	890 mm	35"
Height	960 mm	37.7"
Weight	280 kg	617 lb
CFM Options	230/380/600/900/1200 cfm	
Vacuum	25" Hg	
DBA	85 (1 metre @ 230 cfm)	
Air Connection	2" (50mm) BSP/NPT	
Suction Inlet	4" (100mm) Camlock	

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SOLIDS PUMPING SYSTEMS

SV-800 CAROUSEL

The SV-800 Carousel allows users to control the discharge of materials into multiple points. The Drop Box design harnesses gravity, reducing labour intensity.

- Heavy Duty
- Simple Operation
- Low Maintenance
- Multi-Point Delivery



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SOLIDS PUMPING SYSTEMS

SV-DEWATERING BOX

The Solidsvac Dewatering Box can be installed over bin, skip or an underground conveyor. Solids laden slurries and fines can be pumped into the SV-DB and particles above 0.5mm separated. Solids are then delivered to the conveyor, bin or skip and clean fluid will be returned to the pumping system via the underflow outlet on the SV-DB.

- Dewater Slurry
- Fast & Efficient
- Rapid Install
- Robust
- 316ss

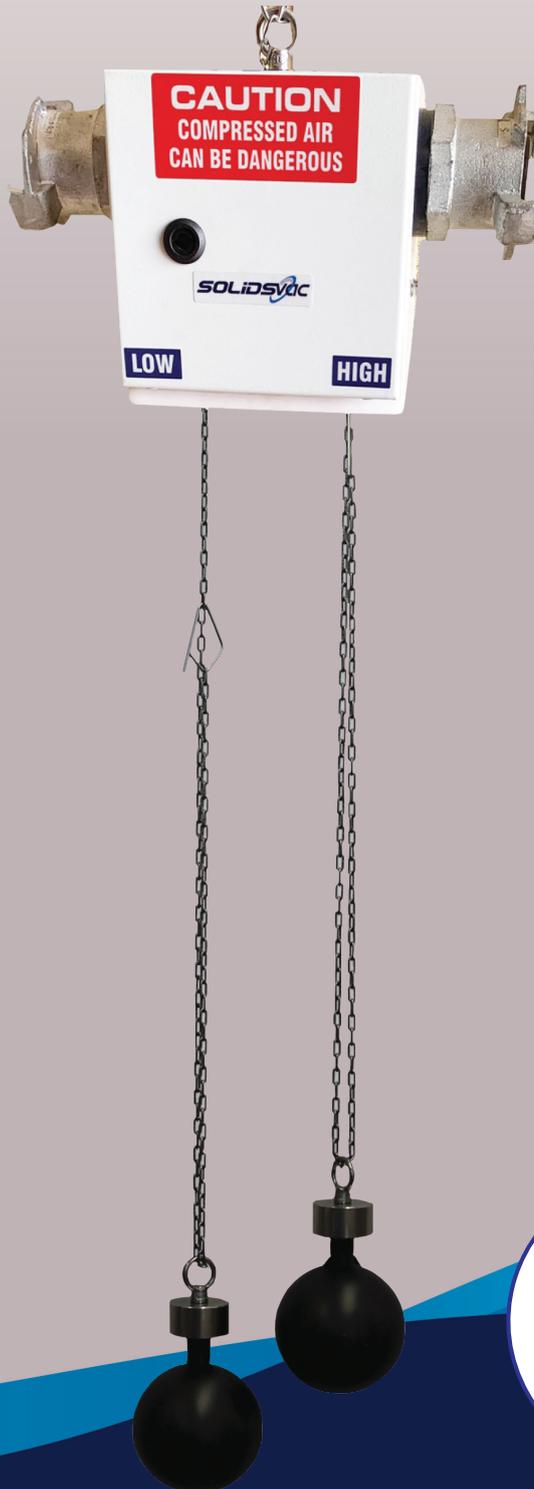


SOLIDSVAC[®]

SOLIDS PUMPING SYSTEMS

SV-FLOAT SWITCH

- Heavy Duty
- 100% Pneumatic
- Simple Operation
- Detect Liquid Levels
- Sump Or Tank Control



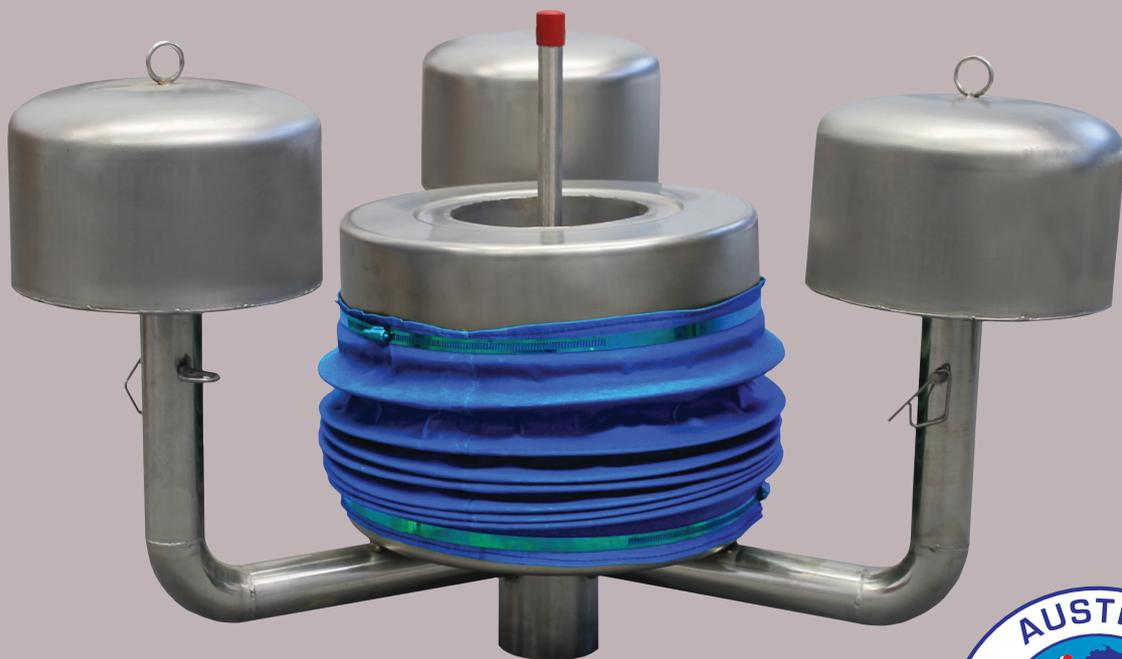
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SOLIDS PUMPING SYSTEMS

SV-SURFACE SKIMMER

The SV-Surface Skimmer allows for the capture of materials floating on the surface of any body of liquid. Capable of recovering both liquids and debris, this unit uses only the motive force of a pumps suction to operate.

- Variable Skimming Depth
- Simple Camlock Connection
- Compatible with 2" Air Pumps
- Stainless Steel Construction



SOLIDSVAC[®]

SOLIDS PUMPING SYSTEMS

SV-IN-LINE ANNULAR

The SV-ILA was designed to assist in the fluidizing of either dense or high Sg material being discharged from all Solidsvac Pumps. Solidsvac Pumps utilise a combination of both dense and lean phase pneumatic conveying. The SV-ILA can be installed at any point along the discharge line and with air supplied (100cfm @ 60psi) both discharge rates and distances can be increased considerably. Vertical discharges of material with an Sg of 2.5 to a height in excess of 45 metres have been achieved utilising the SV-ILA system.

- Manufactured in 316
- 3/4" BSP/NPT Air Connection
- Available in 3" and 4"



Note: As the SV-ILA adds air volume to the discharge line, the increased volume must be accommodated at the final discharge point. Often this can be achieved with the use of a Solidsvac Drop Box or similar. In the case of dry materials, the cyclone capacity must be taken into account.



SOLIDSVAC[®]

SOLIDS PUMPING SYSTEMS

SV-LS-15/25

Pneumatic Pump Controller

- Save Air
- Lower Maintenance Costs
- Reduce Wear



SV-LS-15/25

Pneumatic Pump Controller

BACKGROUND INFORMATION

After the recent successful release of the Solidsvac Strainer Trainer, a number of mining operations approached Solidsvac seeking the development of a pneumatic control unit that would both reduce pump wear and provide savings with regards to their overall compressed air consumption.

ABOUT THE UNIT

The Solidsvac SVLS series level switches are compact, lightweight controllers that prevent air powered pumps from operating unnecessarily, in turn delivering reduced pump wear and significant air savings.

FEATURES:

- Tamper proof enclosure
- No moving parts within sensor
- Can be installed at 45 degrees
- Will fit directly to pump
- Sensor can be located remotely (supplied with 5 metre sense line as standard)
- Manual override switch



SV-LS-15/25

Pneumatic Pump Controller

CAPABILITIES

The level sensor will operate up to 5 metres from the controller and on an angle up to 45 degrees from the vertical and as such, can be readily deployed in many scavenge pump situations.

The LS series provide between 150 and 200ml of depth control and are readily integrated into the Solidsvac Strainer Trainer, further enhancing pump performance, whilst reducing wear and eliminating compressed air wastage.



SPECIFICATIONS:

- Functional Pressure Range: 550-750 Kpa
- Max Airflow: 159 cfm LS-15 / 415 cfm LS-25
- Controller Weight: 2.5kg
- Controller Dimensions: 275mm(L) x 275mm(W) x 90mm(D) (Includes fittings)
- Sensor Weight: 2.2kg
- Sensor Dimensions: 50mm(Ø) x 750mm (Includes suspension hook)

OPTIONS:

- Universal Mount Bracket

SV-STRAINER TRAINER

This SV-Strainer Trainer is designed to assist in keeping pump pick-up strainers free from clogging by intermittently purging the strainer box with a short burst of either air or liquid (purge medium).

- Robust
- Quick Install
- Automated





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