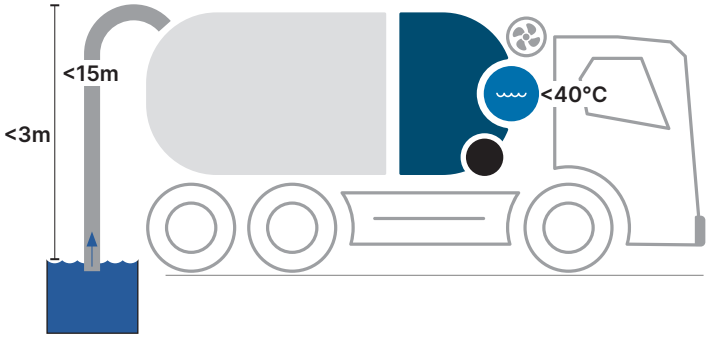
SLP 3100

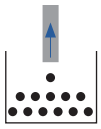
Hose-end performance

Hose-end flow data is based on the following test parameters:

- Water temperature up to 40°C
- Suction hose length up to 15 m
- Suction depth up to 3 m
- Tolerance ±10%

WATER flow can be used as a test parameter during commissioning and factory acceptance tests.





AIR FLOW

Operators power experience during air lift of solids

Air flow | m/sec

	6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE
SLP 3100 1600 RPM	37 Perfect	53 51%	69 96%	104 198%	130 270%
SLP 3100 1500 RPM	35 Perfect	51 46%	67 90%	102 191%	128 267%
SLP 3100 1400 RPM	32 -9%	47 34%	66 87%	101 188%	126 259%
SLP 3100 1300 RPM	32 -9%	47 34%	62 76%	96 174%	123 252%
SLP 3100 1200 RPM	30 -14%	44 26%	59 67%	92 164%	121 245%

WATER FLOW

Tank filling performance fully submerged vacuum lift

m³/h | kW — Performance loss

	6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE
SLP 3100 1600 RPM	439 90kW	305 -31% 90kW	163 -63% 90kW	79 -82% 90kW	26 -94% 90kW
SLP 3100 1500 RPM	410 78kW	274 -33% 78kW	139 -66% 78kW	79 -81% 78kW	26 -94% 78kW
SLP 3100 1400 RPM	410 68kW	261 -36% 68kW	131 -68% 68kW	79 -81% 68kW	26 -94% 68kW
SLP 3100 1300 RPM	410 60kW	261 -36% 60kW	131, -68% 60kW	79 -81% 60kW	26 -94% 60kW
SLP 3100 1200 RPM	403 56kW	274 -32% 56kW	146 -64% 56kW	79 -80% 56kW	26 -94% 56kW

RETURN ON INVESTMENT

Fuel consumption filling 100m³

Diesel oil consumption liter — KG/CO2 emissions

	6" HOSE	5" HOSE	4" HOSE	3" HOSE	2" HOSE
SLP 3100 1600 RPM	2,05 5,49 KG/CO2	2,95 7,91 KG/CO2	5,52 14,8 KG/CO2	11,3 30,5 KG/CO2	34,6 92,7 KG/CO2
SLP 3100 1500 RPM	1,90 5,10 KG/CO2	2,84 7,62 KG/CO2	5,59 14,9 KG/CO2	9,87 26,4 KG/CO2	30,0 80,4 KG/CO2
SLP 3100 1400 RPM	1,66 4,44 KG/CO2	2,60 6,96 KG/CO2	5,18 13,8 KG/CO2	8,61 23,0 KG/CO2	26,1 70,0 KG/CO2
SLP 3100 1300 RPM	1,46 3,92 KG/CO2	2,29 6,14 KG/CO2	4,57 12,2 KG/CO2	7,59 20,3 KG/CO2	23,0 61,8 KG/CO2
SLP 3100 1200 RPM	1,39 3,72 KG/CO2	2,04 5,47 KG/CO2	3,82 10,2 KG/CO2	7,09 19,0 KG/CO2	21,5 57,7 KG/CO2

Air flow m/sec

100%+	Overcapacity extreme
45-99%	Overcapacity high
15-44%	Overcapacity
0-14%	Perfect 35 - 40 m/sec
0--29%	Water is flying
-30%-	Insufficient speed

Performance +/- %

90% +	
60-90%	
40-60%	
20-40%	
10-20%	
Full capacity	

Diesel oil consumption per 100m³

5L +	Highly Inefficient
4-5L	Inefficient
3-4L	Less Efficient
2-3L	Moderately Efficient
1-2L	Efficient
0-1L	Highly Efficient

Customized calculations
Our team of vacuum specialists, with extensive experience, is available for customized calculations based on specific investments.
Reach out for a consultation and achieve goals with precision and expertise.

SLP 3100

Pump-end performance

Features:

- E-coated cast iron
- Stainless steel rotor
- Dry run resistant mechanical shaft seals
- Available in ATEX Zone 1 or 0
- Low noise

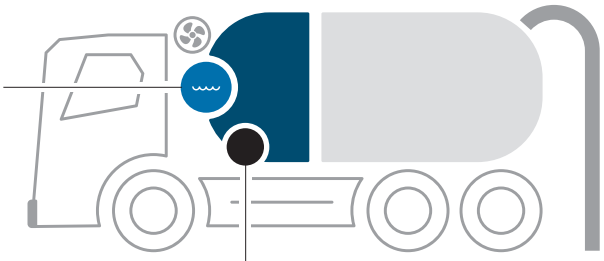
Water evaporation from saturation inside the pump

Metric	50% vacuum	70% vacuum	80% vacuum
20°C	10	5	3
30°C	25	13	7
40°C	50	26	13
50°C	87	46	23
55°C	142	75	37

L/h

US	50% vacuum	70% vacuum	80% vacuum
68°F	3	1	1
86°F	7	3	2
104°F	13	7	3
122°F	23	12	6
131°F	38	20	10

Gal/h



Vacuum

Metric	m3/h	kW	Nm
1600 RPM	2947	90	537
1500 RPM	2860	78	497
1400 RPM	2724	68	464
1300 RPM	2542	60	441
1200 RPM	2159	56	446

US	CFM	HP	Lbs *ft
1600 RPM	1735	121	396
1500 RPM	1683	105	366
1400 RPM	1603	91	342
1300 RPM	1496	80	325
1200 RPM	1271	75	329

Pressure

Metric	m3/h	kW	Nm
1600 RPM	1695	116	692
1500 RPM	1568	99	630
1400 RPM	1437	86	587
1300 RPM	1326	75	551
1200 RPM	1248	65	517

US	CFM	HP	Lbs *ft
1600 RPM	998	156	511
1500 RPM	923	133	465
1400 RPM	846	115	433
1300 RPM	780	101	406
1200 RPM	735	87	382