

Self-priming pumps

LOWARA SHE-SHS-SHF 2-POLE



Pumps made of stainless steel and synthetic material



 **LOWARA**
a xylem brand

Description

The SH serie from Lowara is normal priming, but thanks to a special technique developed by Van der Ende Groep, it is possible to make this serie of pumps self-priming. The SH serie self-priming pumps can be used in industrial and horticultural applications. The hydraulic part of the pump is made of AISI 316 and the self-priming tubing is made of pvc (16 bar). The pump is standard available with a 3-phase motor.

SHE = close-coupled by means of a bracket with impeller keyed directly to the motor shaft extension.

SHS = with a bracket, adaptor and rigid coupling keyed to the standard motor shaft extension.

SHF = with bracket, support, flexible coupling, and aligning and anchoring base.

Applications

- o irrigation and sprinkling
- o pressure boosting
- o industrial washing

Specifications

- o suitable for clean liquids and continuously operating
- o construction: AISI 316 and pvc
- o capacity: up to 180 m³/h
- o head: up to 67 m
- o max. pressure: 10 bar
- o liquid temperature: -10°C up to +40°C
- o asynchronous motor IE2/IE3
- o insulation class: F
- o protection: IP55
- o suction stub (pvc): NW75 – NW125
- o delivery stub (pvc): NW63 – NW110
- o power (P2): up to 22,0 kW
- o voltages:
 - 1-phase 220-240 Volt 50 Hz (up to 2,2 kW)
 - 3-phase 220-240/380-415 Volt 50 Hz (up to 3,0 kW)
 - 3-phase 380-415/660-690 Volt 50 Hz
- o automatic or manual bypass
- o UL/CSA certification available on request

HYDRAULIC PERFORMANCE SHE-SHS-SHF SERIES AT 50 HZ, 2-POLE

PUMPTYPE	RATED POWER		Q=CAPACITY																				
			l/min	100	150	200	250	300	400	500	600	700	800	1000	1200	1400	1600	1800	2000	2500	3000	3500	3800
	m ³ /h	6	9	12	15	18	24	30	36	42	48	60	72	84	96	108	120	150	180	210	228		
kW	pk	H = TOTAL HEAD IN METRES COLUMN OF WATER																					
32-125/11	1,1	1,5		20	18	16	14	12	8														
32-160/15	1,5	2		23,5	22	20	18	16	10														
32-160/22	2,2	3		28	27	25	23	20,56	15														
32-200/30	3	4		40	38	35	31	27	20														
32-200/40	4	5,5		48,5	47,5	45	40,5	36,5	30														
32-250/55	5,5	7,5		51	49	47	44,6	39,9	34														
32-250/75	7,5	10		65	62	60	58	53,2	47														
40-125/11	1,1	1,5					11,5	10,6	8	5,7													
40-125/15	1,5	2					15	13,5	11,5	9,5													
40-125/22	2,2	3					20,4	20	19,6	16	13,5	10,9											
40-160/30	3	4					29	27	24	20	16	11											
40-160/40	4	5,5					33,5	32,7	30,3	27,5	24	18,4	13,5										
40-200/55	5,5	7,5					45	44	40	37	31	25	19										
40-200/75	7,5	10					55	54	52	47	43	36	30										
40-250/92	9,2	15					57	56	53	49	45	40	25										
40-250/110	11	15					67	65	61	58	54	49	41										
50-125/22	2,2	3								12,5	11,5	10,5	9,5	7									
50-125/30	3	4								16,5	15	14	13	10									
50-125/40	4	5,5								21	19	18	17	13,5									
50-160/55	5,5	7,5								29	28	26	24,5	20	15	11							
50-160/75	7,5	10								36	35	33	30	27	21	16							
50-200/92	9,2	15								46	44	43	40	33	24	16							
50-200/110	11	15								52	49	47	45	39	28	18							
65-160/40	4	5,5												12	10	8,3	7,5	6					
65-160/55	5,5	7,5												15,4	14,4	12,2	10,4	8,7					
65-160/75	7,5	10												19	17,5	16	14,5	12					
65-160/92	9,2	15												28	26	23	19,3	15					
65-160/110	11	15												33	30,5	28	25,3	21					
65-200/150	15	20												42,5	40,5	37,5	34	39,5	24,5				
65-200/185	18,5	25												50	47	45	41	36	31				
80-160/110	11	15															23	21	17,5	12			
80-160/150	15	20															28,5	27,5	25	18	13		
80-160/185	18,5	25															35	32,4	32	26,8	18,7		
80-200/220	22	30															41,5	40	38	34	30		

SHE pumps in self-priming version

In some cases, it is necessary to make use of a self-priming pump. The SHE serie from Lowara is normal priming, but thanks to a special technique developed by Van der Ende Groep, it is possible to make this serie of pumps self-priming. We have been doing this for almost 20 years. Thanks to this customisation, it is now possible to continue deploying system pumps from the SHE serie, which are used for their large capacity and lifts.

The technique used has been carefully reviewed and modified. Now a valve is used which shuts off the bypass once the pump is pumping water.

This makes a difference to the loss of pressure and capacity or, in other words, the yield.

The suction opening is constructed with a 45° Y-piece so that the suction pipe can be installed above the pump house at an angle of 45°, so that a water seal is created.

The valve is available in both a manual and an automatic version. In the automatic version, the bypass is closed once the water has been sucked up and the pressure built up.

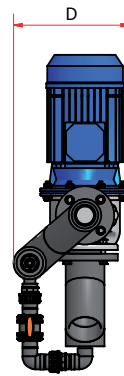
The advantage of this version is that when the pump sucks up air and/or the pressure drops below a specific level, the self-priming action once again comes into action when the valve reopens the bypass.

A patent has been granted to the system with the valves, manual, hydraulic or electrical. Once the pump has been made self-priming, the compression and suction connection is suitable for the use of pvc piping.

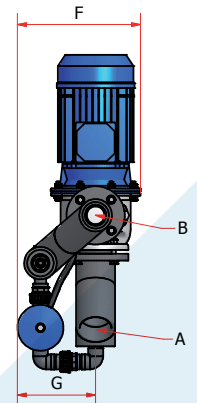
The capacity and pressure of all pumps are measured in our workshop. The results of these measurements are used in this folder.

The dimensions of the pump with connected bypass are stated in this folder. The other dimensions and also the motor capacity and the NPSH, are in the original documents of the factory.

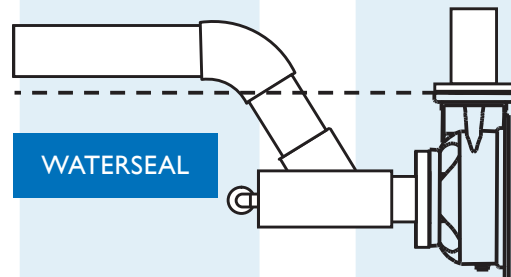
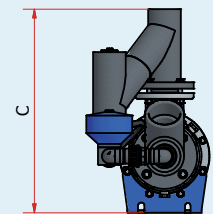
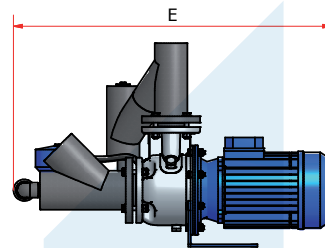
DIMENSION LOWARA SELF-PRIMING PUMPS (MM)							
PUMPTYPE	A	B	C	D	E	F	G
SHE 32-125/11	75	63	475	300	775	320	190
SHE 32-160/15	75	63	515	320	765	340	190
SHE 32-160/22	75	63	515	320	765	340	190
SHE 32-200/30	75	63	560	330	805	350	190
SHE 32-200/40	75	63	560	330	825	350	190
SHE 32-250/55	75	63	630	360	885	380	190
SHE 32-250/75	75	63	630	360	900	380	190
SHE 40-125/11	90	75	500	315	815	335	200
SHE 40-125/15	90	75	500	315	815	335	200
SHE 40-125/22	90	75	500	315	815	335	200
SHE 40-160/30	90	75	540	325	845	345	200
SHE 40-160/40	90	75	540	325	870	345	200
SHE 40-200/55	90	75	590	340	925	360	200
SHE 40-250/75	90	75	590	340	925	360	200
SHE 40-250/92	90	75	655	365	980	385	200
SHE 40-250/110	90	75	655	365	975	385	200
SHE 50-125/22	90	75	545	320	852	340	200
SHE 50-125/30	90	75	545	320	852	340	200
SHE 50-125/40	90	75	545	320	880	340	200
SHE 50-160/55	90	75	590	320	920	340	200
SHE 50-160/75	90	75	590	320	920	340	200
SHE 50-200/92	90	75	610	350	980	370	200
SHE 50-200/110	90	75	610	350	980	370	200
SHE 65-160/40	110	90	650	360	935	370	200
SHE 65-160/55	110	90	650	360	1020	370	220
SHE 65-160/75	110	90	650	360	1020	370	200
SHE 65-160/92	110	90	650	360	935	370	200
SHE 65-160/110	110	90	650	360	935	370	200
SHE 65-200/150	110	90	670	360	1110	370	200
SHE 65-200/185	110	90	670	360	1110	370	200
SHE 80-160/110	125	110	750	390	1100	390	220
SHE 80-160/150	125	110	770	390	1190	390	220
SHE 80-160/185	125	110	750	390	1190	390	220
SHE 80-200/220	125	110	750	390	1225	390	220



Version with manual valve

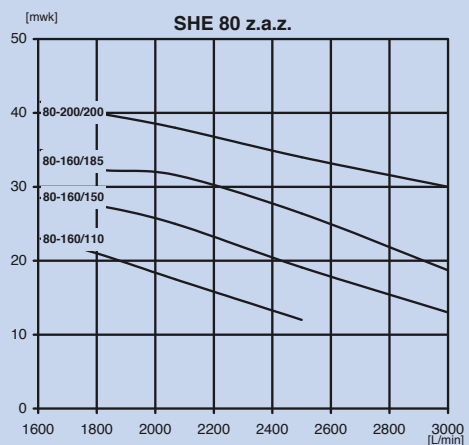
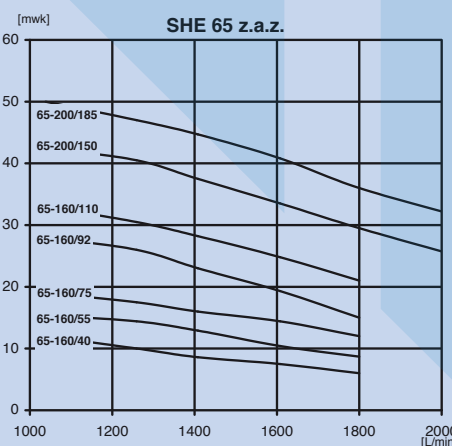
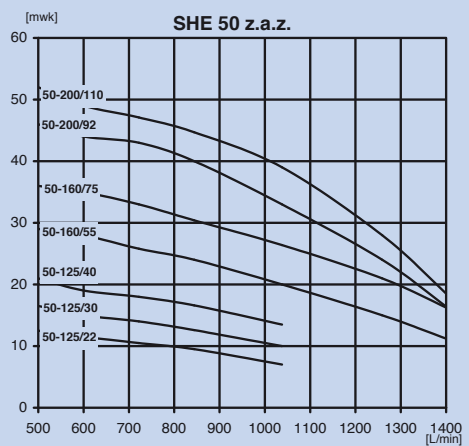
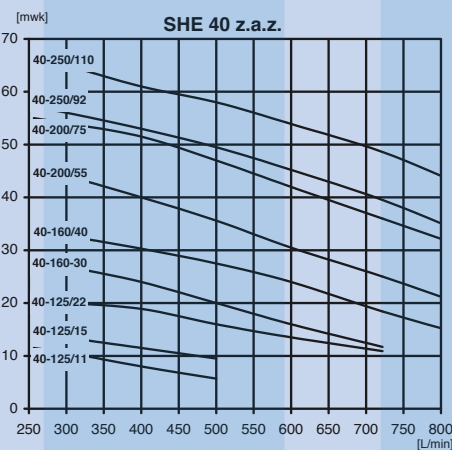
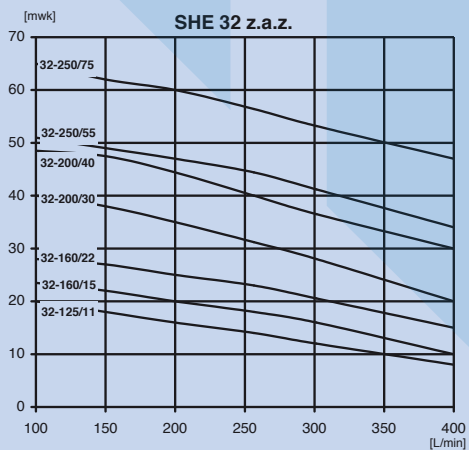


Version with automatic valve



WATERSEAL

CONTINUE ►



VAN DER ENDE GROEP

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