



# ITT

Lowara

## SH Series

Centrifugal Electric pumps made of AISI 316 stainless steel in compliance with EN 733 equipped with high efficiency PLM motors

**50 Hz**



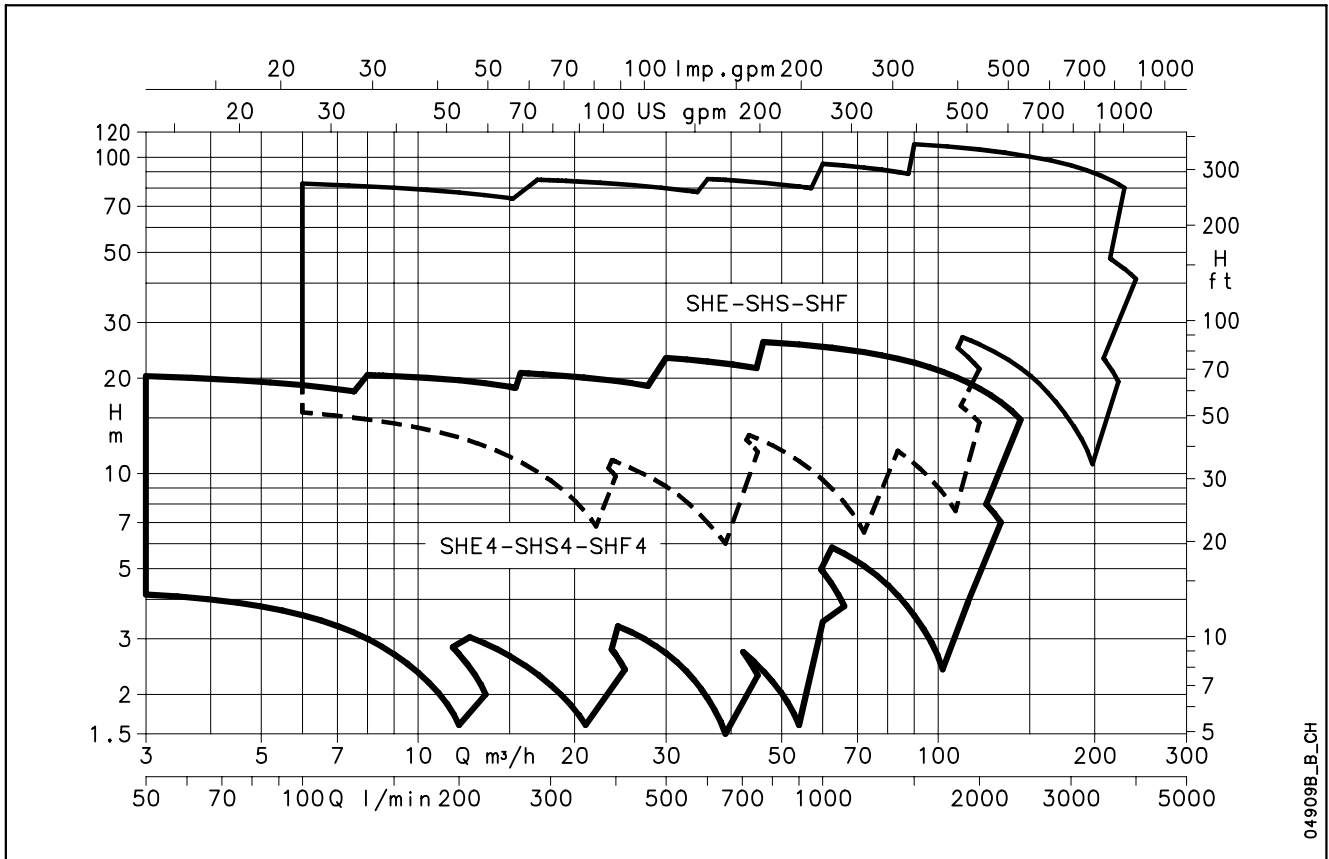
*Engineered for life*



# ITT

# Lowara

## SH SERIES HYDRAULIC PERFORMANCE RANGE AT 50 Hz



04909B\_B\_CH



# ITT

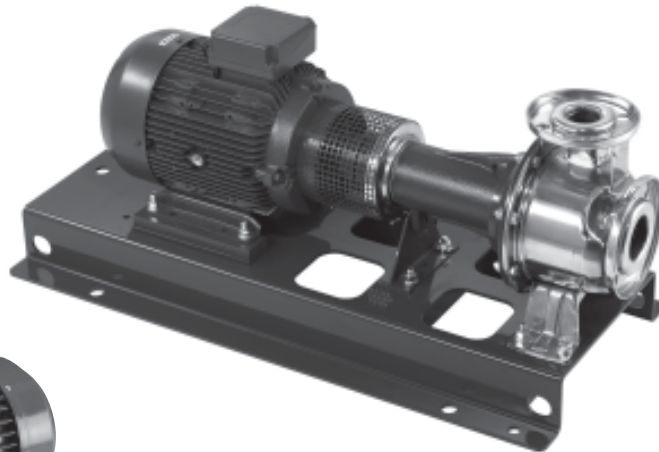
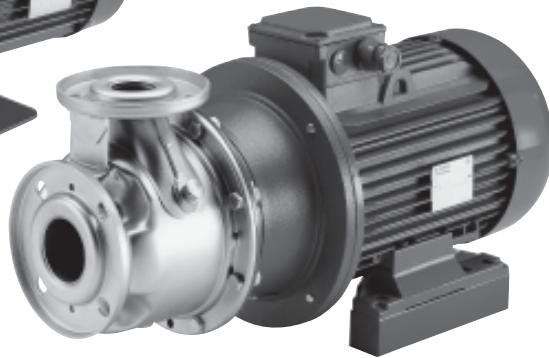
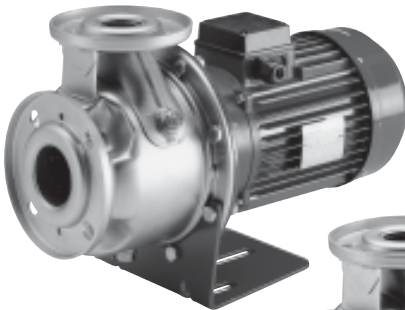
# Lowara

**Centrifugal electric pumps made of AISI 316 stainless steel in compliance with EN 733**

**SH Series with high efficiency PLM motors**

## MARKET SECTORS

The Lowara SH series pumps are used for water and clean liquid circulation in heating, ventilating and air conditioning systems, and for pressure boosting in industrial applications.



**• Temperature of pumped liquid:**

Standard -10°C to +120°C.  
Special versions available on request.

**• Maximum working pressure:**

12 bar (PN 12).

## MOTOR

• Three-phase asynchronous, squirrel cage rotor, enclosed construction, external ventilation.

• Performances according to EN 60034-1.

• Standard supply Lowara motors up to 11 kW (included) for the 4-pole version, and up to 22 kW (included) for the 2-pole version. Other motor brands for higher powers.

**• The Lowara PLM surface motors have efficiency values that fall within the range normally referred to as efficiency class 1.**

• IP 55 protection.

• Insulation class F.

• Max. ambient temperature: 40°C.

For different environmental conditions, check the power.

• Overload protection to be provided by user.

• Condensation drain plugs on all LOWARA motors.

**• Standard voltage:**

Single-phase version 220-240 V, 50 Hz

Three-phase version 220-240/380-415

V, 50 Hz for powers up to 3 kW;

380-415/660-690 V, 50 Hz for

powers above 3 kW.

## SPECIFICATIONS PUMP

• The SH series consists of singlestage centrifugal pumps made of pressed AISI 316 stainless steel.

• The liquid sizes and diameters of the suction and delivery ports are in compliance with EN 733 standards (ex DIN 24255).

• Flange dimensions in compliance with EN 1092-1.

• Available sizes: DN 25 to DN 80.

• Anti-clockwise rotation when facing pump's suction port.

• Back pull-out design.

## APPLICATION RANGE

**• Delivery:**

up to 240 m<sup>3</sup>/h, 2 poles.

up to 130 m<sup>3</sup>/h, 4 poles.

**• Head:**

up to 110 m, 2 poles.

up to 23 m, 4 poles.

## CONSTRUCTION CHARACTERISTICS

- Stainless steel centrifugal pump with end suction and radial discharge ports.
- Pump body made of AISI 316L stainless steel.
- Flanges in compliance with EN 1092-1 (ex UNI 2236 and DIN 2533).
- Back pull-out design (impeller, bracket and motor can be extracted without disconnecting the pump body from the piping).
- Closed impeller made of AISI 316L stainless steel, laser-technology welded (for sizes 25, 32, 40, 50, 65-160/75, 65-160/110A) or AISI CF8M cast stainless steel.
- Mechanical seal according to EN 12756 (ex DIN 24960).
- AISI 316L stainless steel fill & drain plugs.

## MOTOR-PUMP COUPLING

- **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.
- **SHF.SC**: with bracket, support, spacer coupling, aligning and anchoring base.
- Bare shaft pump version.

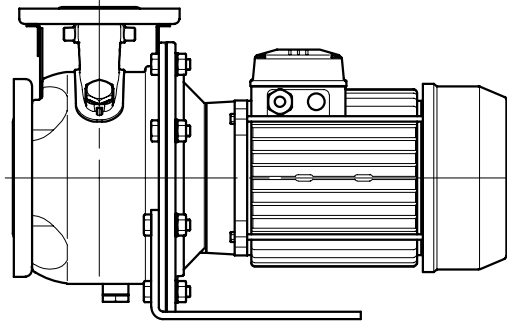
## ACCESSORIES ON REQUEST

- AISI 316 stainless steel or galvanized iron counterflanges.
- Intermediate flange with pressure gauge connection.
- Pump and motor shims.

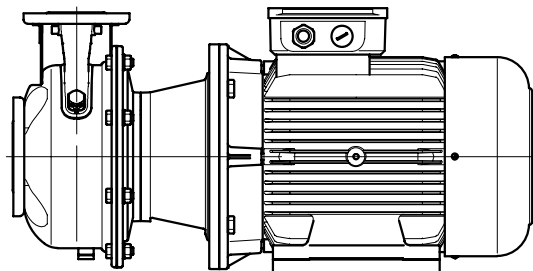
## OPTIONAL FEATURES

- Different voltages and frequencies.
- Special materials for the mechanical seal and gaskets.
- Version with internal recirculation of pumped liquid to mechanical seal.
- Version with rotation locking system seal.
- Tropicalized motors.
- Version with Hydrovar® control system.
- SHF with flexible coupling with spacer.
- Diesel motor.

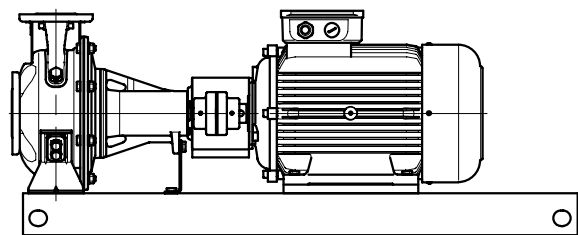
SHE – SHE4



SHS – SHS4



SHF – SHF4



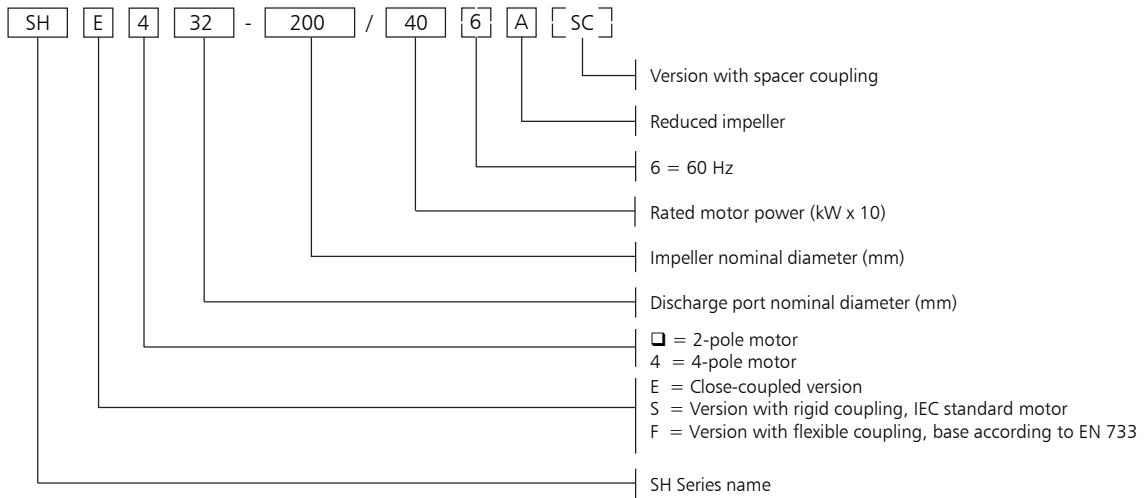
04905\_A\_SC



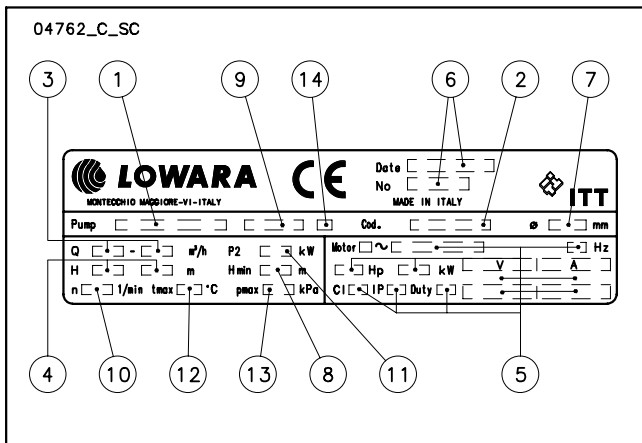
# ITT

# Lowara

## SH SERIES IDENTIFICATION CODE



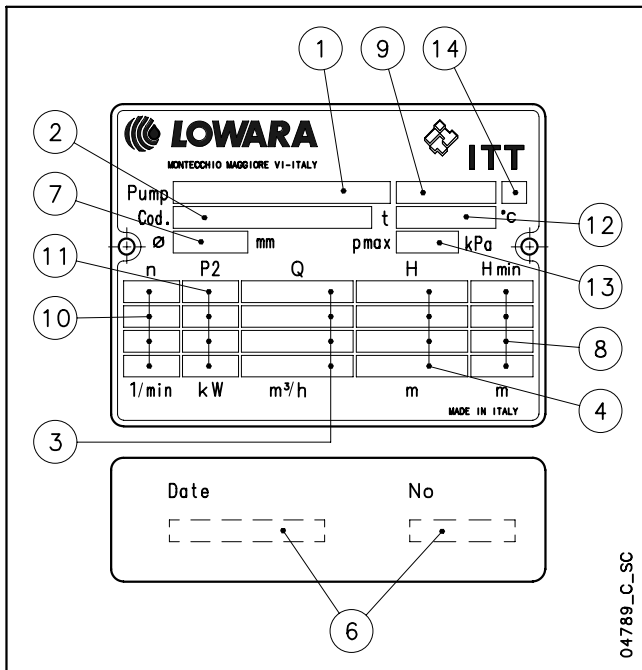
## SHE - SHS RATING PLATE



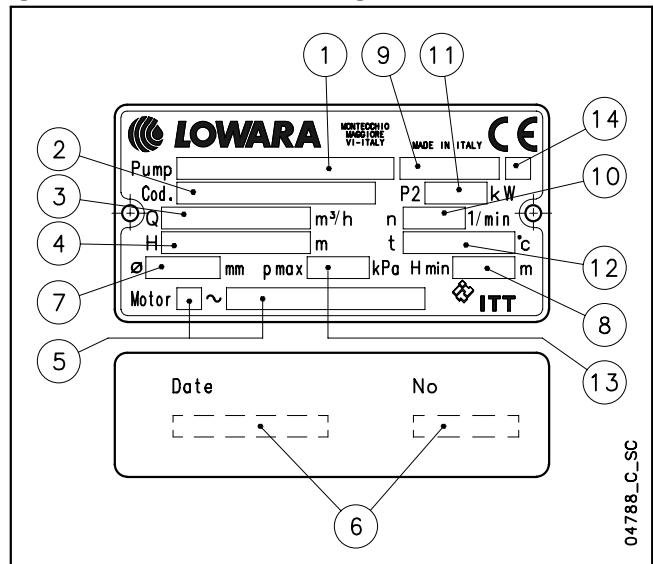
## LEGEND

- 1 - Electric pump type
- 2 - Code
- 3 - Delivery range
- 4 - Head range
- 5 - Motor type
- 6 - Date of manufacturing and serial number
- 7 - Impeller diameter
- 8 - Minimum head
- 9 - Mechanical seal material identification code
- 10 - Speed
- 11 - Rated power
- 12 - Maximum operating temperature
- 13 - Maximum operating pressure
- 14 - O-ring material identification code

## SHF RATING PLATE (PUMP ONLY)



## SHF RATING PLATE (ELECTRIC PUMP)



**LIST OF MODELS SH SERIES 50 Hz  
2 POLES**
**4 POLES**

SIZE	kW	VERSION			
		SHEM	SHE	SHS	SHF
25-125/07	0,75	•	•	•	•
25-125/11	1,1	•	•	•	•
25-160/15	1,5	•	•	•	•
25-160/22	2,2	•	•	•	•
25-200/30	3	-	•	•	•
25-200/40	4	-	•	•	•
25-250/55	5,5	-	•	•	•
25-250/75	7,5	-	•	•	•
25-250/110	11	-	•	•	•
32-125/07	0,75	•	•	•	•
32-125/11	1,1	•	•	•	•
32-160/15	1,5	•	•	•	•
32-160/22	2,2	•	•	•	•
32-200/30	3	-	•	•	•
32-200/40	4	-	•	•	•
32-250/55	5,5	-	•	•	•
32-250/75	7,5	-	•	•	•
32-250/110	11	-	•	•	•
40-125/11	1,1	•	•	•	•
40-125/15	1,5	•	•	•	•
40-125/22	2,2	•	•	•	•
40-160/30	3	-	•	•	•
40-160/40	4	-	•	•	•
40-200/55	5,5	-	•	•	•
40-200/75	7,5	-	•	•	•
40-250/92	9,2	-	•	-	-
40-250/110A	11	-	-	•	•
40-250/110	11	-	•	•	•
40-250/150	15	-	•	•	•
50-125/22	2,2	•	•	•	•
50-125/30	3	-	•	•	•
50-125/40	4	-	•	•	•
50-160/55	5,5	-	•	•	•
50-160/75	7,5	-	•	•	•
50-200/92	9,2	-	•	-	-
50-200/110A	11	-	-	•	•
50-200/110	11	-	•	•	•
50-250/150	15	-	•	•	•
50-250/185	18,5	-	•	•	•
50-250/220	22	-	•	•	•
65-160/40	4	-	•	•	•
65-160/55	5,5	-	•	•	•
65-160/75	7,5	-	•	•	•
65-160/92	9,2	-	•	-	-
65-160/110A	11	-	-	•	•
65-160/110	11	-	•	•	•
65-200/150	15	-	•	•	•
65-200/185	18,5	-	•	•	•
65-200/220	22	-	•	•	•
65-250/300	30	-	-	•	•
65-250/370	37	-	-	•	•
80-160/110	11	-	•	•	•
80-160/150	15	-	•	•	•
80-160/185	18,5	-	•	•	•
80-200/220	22	-	•	•	•
80-200/300	30	-	-	•	•
80-200/370	37	-	-	•	•
80-250/450	45	-	-	-	•
80-250/550	55	-	-	-	•
80-250/750	75	-	-	-	•

• = Available

sh\_she-shs-shf\_2p50-en\_b\_tem

SIZE	kW	VERSION		
		SHE4	SHS4	SHF4
25-125/02A	0,25	•	-	•
25-125/02	0,25	•	-	•
25-160/02	0,25	•	-	•
25-160/03	0,37	•	-	•
25-200/03	0,37	•	-	•
25-200/05	0,55	•	-	•
25-250/07	0,75	•	•	•
25-250/11	1,1	•	•	•
25-250/15	1,5	•	•	•
32-125/02A	0,25	•	-	•
32-125/02	0,25	•	-	•
32-160/02	0,25	•	-	•
32-160/03	0,37	•	-	•
32-200/03	0,37	•	-	•
32-200/05	0,55	•	-	•
32-250/07	0,75	•	•	•
32-250/11	1,1	•	•	•
32-250/15	1,5	•	•	•
40-125/02A	0,25	•	-	•
40-125/02	0,25	•	-	•
40-125/03	0,37	•	-	•
40-160/03	0,37	•	-	•
40-160/05	0,5	•	-	•
40-200/07	0,75	•	•	•
40-200/11	1,1	•	•	•
40-250/11	1,1	•	•	•
40-250/15	1,5	•	•	•
40-250/22	2,2	•	•	•
50-125/03A	0,37	•	-	•
50-125/03	0,37	•	-	•
50-125/05	0,5	•	-	•
50-160/07	0,75	•	•	•
50-160/11	1,1	•	•	•
50-200/11	1,1	•	•	•
50-200/15	1,5	•	•	•
50-250/22A	2,2	•	•	•
50-250/22	2,2	•	•	•
50-250/30	3	•	•	•
65-160/05	0,5	•	•	•
65-160/07	0,75	•	•	•
65-160/11A	1,1	•	•	•
65-160/11	1,1	•	•	•
65-160/15	1,5	•	•	•
65-200/15	1,5	•	•	•
65-200/22	2,2	•	•	•
65-200/30	3	•	•	•
65-250/40	4	•	•	•
65-250/55	5,5	•	•	•
80-160/15	1,5	•	•	•
80-160/22A	2,2	•	•	•
80-160/22	2,2	•	•	•
80-200/30	3	•	•	•
80-200/40	4	•	•	•
80-250/55	5,5	•	•	•
80-250/75	7,5	•	•	•
80-250/110	11	•	•	•

• = Available

sh\_she4-shs4-shf4\_4p50-en\_c\_tem

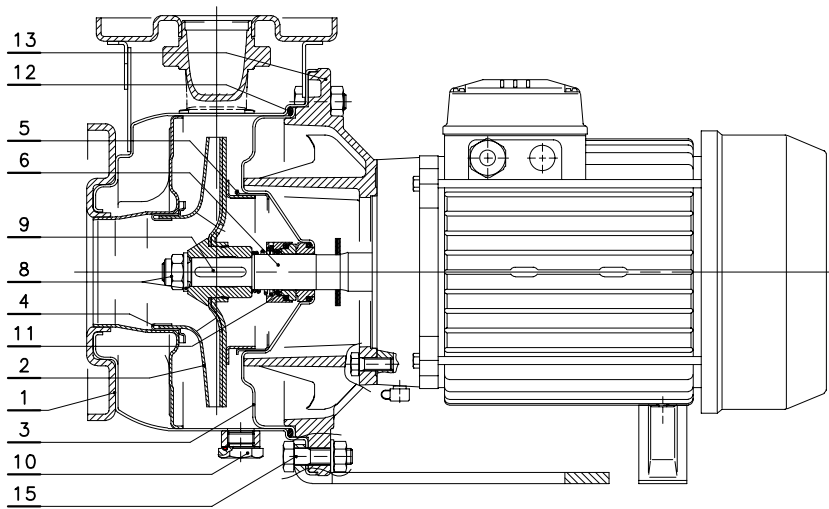


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## SHE - SHE4 SERIES LIST OF MODELS AND TABLE OF MATERIALS

04906\_B\_DS



VERSIONS	
2 POLES	4 POLES
SHE 25-125/07	SHE4 25-200/05
SHE 25-125/11	SHE4 25-250/07
SHE 25-160/15	SHE4 25-250/11
SHE 25-160/22	SHE4 25-250/15
SHE 25-200/30	SHE4 32-200/05
SHE 25-200/40	SHE4 32-250/07
SHE 25-250/55	SHE4 32-250/11
SHE 25-250/75	SHE4 32-250/15
SHE 25-250/110	SHE4 40-160/05
SHE 32-125/07	SHE4 40-200/07
SHE 32-125/11	SHE4 40-200/11
SHE 32-160/15	SHE4 40-250/11
SHE 32-160/22	SHE4 40-250/15
SHE 32-200/30	SHE4 40-250/22
SHE 32-200/40	SHE4 50-125/05
SHE 32-250/55	SHE4 50-160/07
SHE 32-250/75	SHE4 50-160/11
SHE 32-250/110	SHE4 50-200/11
SHE 40-125/11	SHE4 50-200/15
SHE 40-125/15	SHE4 50-250/22A
SHE 40-125/22	SHE4 50-250/22
SHE 40-160/30	SHE4 50-250/30
SHE 40-160/40	SHE4 65-160/05
SHE 40-200/55	SHE4 65-160/07
SHE 40-200/75	SHE4 65-160/11A
SHE 40-250/92	SHE4 65-160/11
SHE 40-250/110	SHE4 65-160/15
SHE 50-125/22	SHE4 65-200/15
SHE 50-125/30	SHE4 65-200/22
SHE 50-125/40	SHE4 65-200/30
SHE 50-160/55	SHE4 65-250/40
SHE 50-160/75	SHE4 65-250/55
SHE 50-200/92	SHE4 80-160/15
SHE 50-200/110	SHE4 80-160/22A
SHE 65-160/40	SHE4 80-160/22
SHE 65-160/55	SHE4 80-200/30
SHE 65-160/75	SHE4 80-200/40
SHE 65-160/92	SHE4 80-250/55
SHE 65-160/110	SHE4 80-250/75
SHE 80-160/110	

sh-she-p-en\_b\_mo

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter *	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

\* For the 25/32/40-125 2/4 pole, 25/32/40-160 2/4 pole, 25/32/40-200 2/4 pole versions

sh\_she-en\_c\_tm

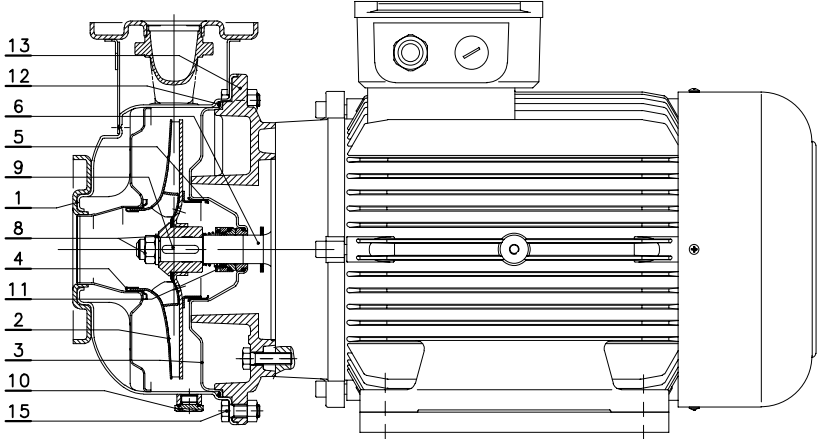
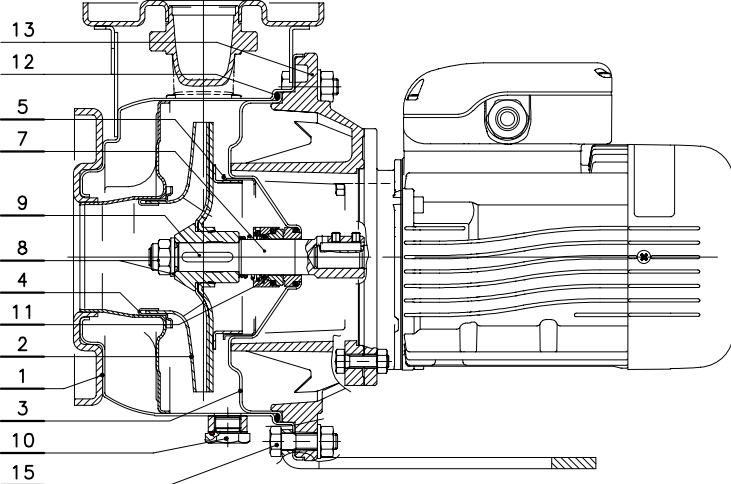


# ITT

# Lowara

## SHE - SHE4 SERIES

### LIST OF MODELS AND TABLE OF MATERIALS

<p>04902_B_DS</p> 	<table border="1"> <thead> <tr> <th colspan="2">VERSIONS</th> </tr> <tr> <th>2 POLES</th> <th>4 POLES</th> </tr> </thead> <tbody> <tr> <td>SHE 40-250/150</td> <td>SHE4 80-250/110</td> </tr> <tr> <td>SHE 50-250/150</td> <td></td> </tr> <tr> <td>SHE 50-250/185</td> <td></td> </tr> <tr> <td>SHE 50-250/220</td> <td></td> </tr> <tr> <td>SHE 65-200/150</td> <td></td> </tr> <tr> <td>SHE 65-200/185</td> <td></td> </tr> <tr> <td>SHE 65-200/220</td> <td></td> </tr> <tr> <td>SHE 80-160/150</td> <td></td> </tr> <tr> <td>SHE 80-160/185</td> <td></td> </tr> <tr> <td>SHE 80-200/220</td> <td></td> </tr> </tbody> </table> <p style="text-align: right;">sh-she-s-en_b_mo</p>	VERSIONS		2 POLES	4 POLES	SHE 40-250/150	SHE4 80-250/110	SHE 50-250/150		SHE 50-250/185		SHE 50-250/220		SHE 65-200/150		SHE 65-200/185		SHE 65-200/220		SHE 80-160/150		SHE 80-160/185		SHE 80-200/220	
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SHE4 32-200/03																									

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter *	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

\* For the 25/32/40-125 2/4 pole, 25/32/40-160 2/4 pole, 25/32/40-200 2/4 pole versions





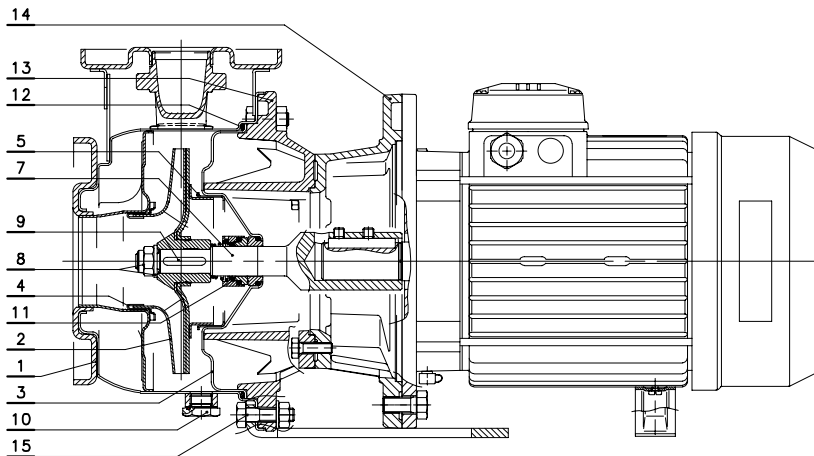
# ITT

# Lowara

## SHS - SHS4 SERIES

### LIST OF MODELS AND TABLE OF MATERIALS

04956\_C\_DS



VERSIONS	
2 POLES	4 POLES
SHS 25-125/07	SHS4 25-250/07
SHS 25-125/11	SHS4 25-250/11
SHS 25-160/15	SHS4 25-250/15
SHS 25-160/22	SHS4 32-250/07
SHS 25-200/30	SHS4 32-250/11
SHS 25-200/40	SHS4 32-250/15
SHS 25-250/55	SHS4 40-200/07
SHS 25-250/75	SHS4 40-200/11
SHS 32-125/07	SHS4 40-250/11
SHS 32-125/11	SHS4 40-250/15
SHS 32-160/15	SHS4 40-250/22
SHS 32-160/22	SHS4 50-160/07
SHS 32-200/30	SHS4 50-160/11
SHS 32-200/40	SHS4 50-200/11
SHS 32-250/55	SHS4 50-200/15
SHS 32-250/75	SHS4 50-250/22A
SHS 40-125/11	SHS4 50-250/22
SHS 40-125/15	SHS4 50-250/30
SHS 40-125/22	SHS4 65-160/05
SHS 40-160/30	SHS4 65-160/07
SHS 40-160/40	SHS4 65-160/11A
SHS 40-200/55	SHS4 65-160/11
SHS 40-200/75	SHS4 65-160/15
SHS 50-125/22	SHS4 65-200/15
SHS 50-125/30	SHS4 65-200/22
SHS 50-125/40	SHS4 65-200/30
SHS 50-160/55	SHS4 65-250/40
SHS 50-160/75	SHS4 65-250/55
SHS 65-160/40	SHS4 80-160/15
SHS 65-160/55	SHS4 80-160/22A
SHS 65-160/75	SHS4 80-160/22
	SHS4 80-200/30
	SHS4 80-200/40
	SHS4 80-250/55
	SHS4 80-250/75

sh-shs-p-en\_b\_mo

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Acciaio inox	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Adapter motor coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

\* For the 25/32/40-125 2/4 pole, 25/32/40-160 2/4 pole, 25/32/40-200 2/4 pole versions

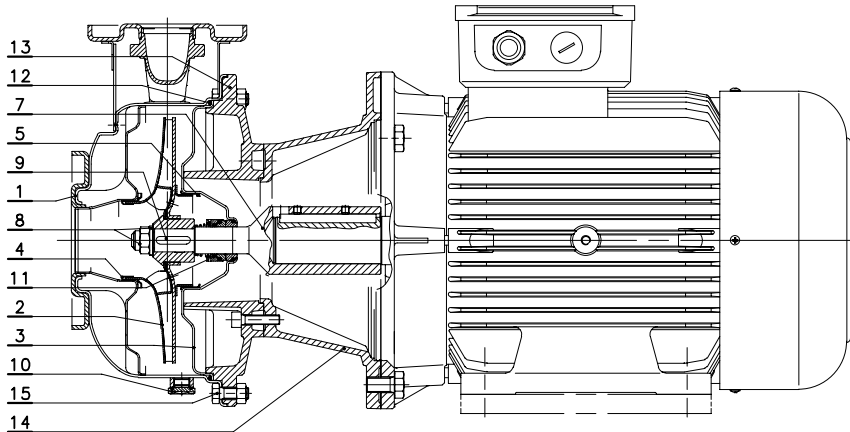


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# Lowara

## SHS SERIES LIST OF MODELS AND TABLE OF MATERIALS

04952\_B\_DS



VERSIONS	
2 POLES	4 POLES
SHS 25-250/110	SHS4 80-250/110
SHS 32-250/110	
SHS 40-250/110A	
SHS 40-250/110	
SHS 40-250/150	
SHS 50-200/110A	
SHS 50-200/110	
SHS 50-250/150	
SHS 50-250/185	
SHS 50-250/220	
SHS 65-160/110A	
SHS 65-160/110	
SHS 65-200/150	
SHS 65-200/185	
SHS 65-200/220	
SHS 65-250/300	
SHS 65-250/370	
SHS 80-160/110	
SHS 80-160/150	
SHS 80-160/185	
SHS 80-200/220	
SHS 80-200/300	
SHS 80-200/370	

sh-shs-s-en\_b\_mo

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Acciaio inox	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Adapter motor coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

\* For the 25/32/40-125 2/4 pole, 25/32/40-160 2/4 pole, 25/32/40-200 2/4 pole versions

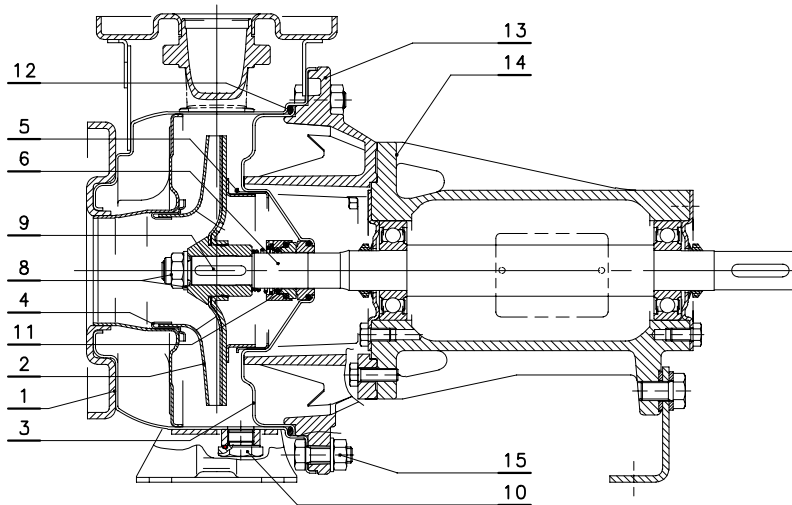


# ITT

# Lowara

## SHF BARE SHAFT SERIES LIST OF MODELS AND TABLE OF MATERIALS

04979\_B\_DS



### VERSIONS

SHF 25-125
SHF 25-160
SHF 25-200
SHF 25-250
SHF 32-125
SHF 32-160
SHF 32-200
SHF 32-250
SHF 40-125
SHF 40-160
SHF 40-200
SHF 40-250
SHF 50-125
SHF 50-160
SHF 50-200
SHF 50-250
SHF 65-160
SHF 65-200
SHF 65-250
SHF80-160
SHF 80-200
SHF 80-250

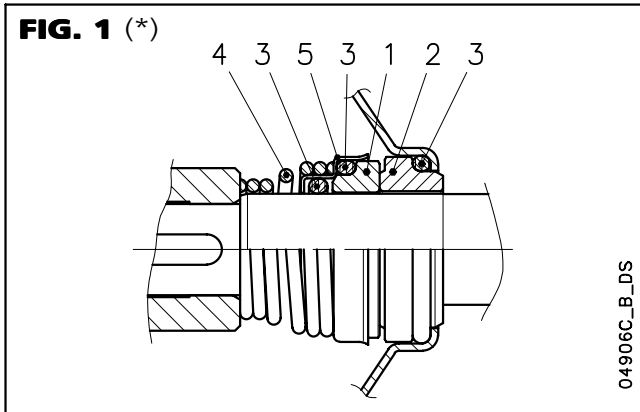
sh-shf-p-en\_a\_mo

REF. N.	NAME	MATERIAL	REFERENCE STANDARDS	
			EUROPE	USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65(160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65(200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter *	Aluminium	EN 1706-AC-AISI11Cu2 (Fe) (AC46100)	-
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Transmission support body	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

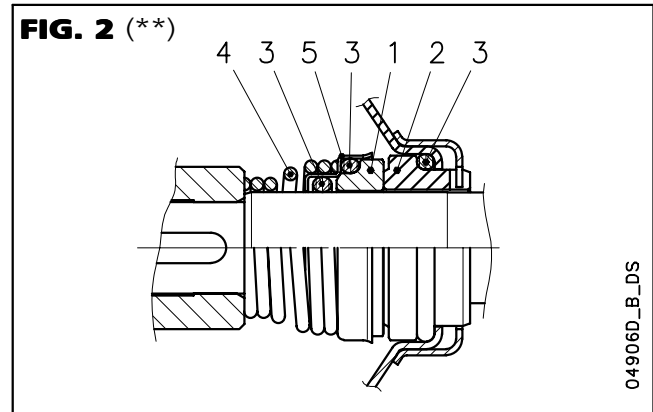
\* For the 25/32/40-125 2/4 pole, 25/32/40-160 2/4 pole, 25/32/40-200 2/4 pole versions

## SH MECHANICAL SEAL SERIES, ACCORDING TO EN 12756

Mechanical seal with mounting dimensions according to EN12756 (ex DIN 24960) and ISO 3069.



(\*) Standard version



(\*\*) Version with fixed assembly anti-rotation lockpin

## LIST OF MATERIALS

POSITION 1 - 2	POSITION 3	POSITION 4 - 5
B : Resin impregnated carbon	E : EPDM	G : AISI 316
Q <sub>1</sub> : Silicon carbide	V : FPM	
V : Ceramic		

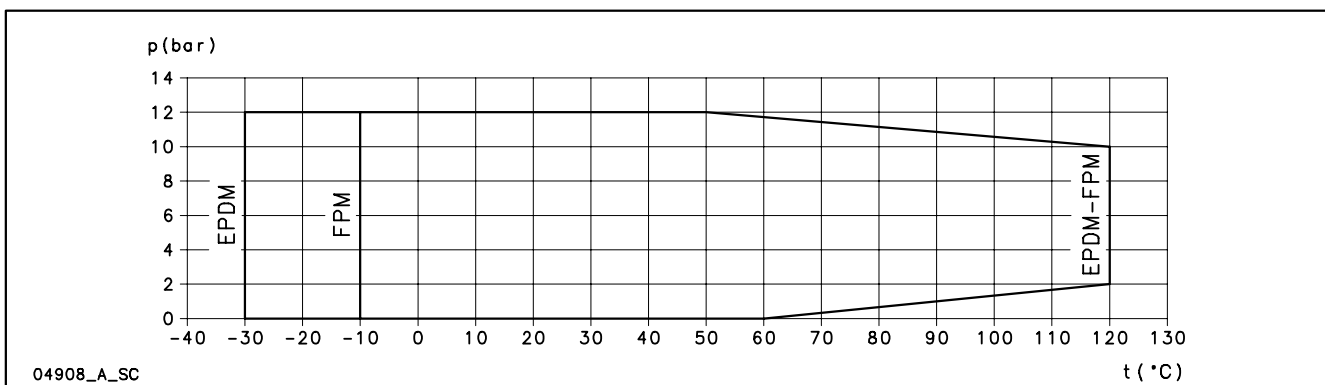
sh\_ten-mec-en\_a\_tm

## SEAL TYPES

TYPE	POSITION					TEMPERATURE (°C)
	1 ROTATING ASSEMBLY	2 FIXED ASSEMBLY	3 ELASTOMERS	4 SPRINGS	5 OTHER COMPONENTS	
<b>STANDARD MECHANICAL SEAL</b>						
VBVGG	V	B	V	G	G	-10 +120
<b>OTHER MECHANICAL SEAL TYPES</b>						
Q <sub>1</sub> BVGG	Q <sub>1</sub>	B	V	G	G	-10 +120
Q <sub>1</sub> Q <sub>1</sub> VGG	Q <sub>1</sub>	Q <sub>1</sub>	V	G	G	-10 +120
VBEGG	V	B	E	G	G	-30 +120
Q <sub>1</sub> BEGG	Q <sub>1</sub>	B	E	G	G	-30 +120
Q <sub>1</sub> Q <sub>1</sub> EGG	Q <sub>1</sub>	Q <sub>1</sub>	E	G	G	-30 +120

sh\_tipi-ten-mec-en\_a\_tc

## COMPLETE PUMP PRESSURE / TEMPERATURE OPERATING LIMITS (WITH ANY OF THE SEALS LISTED ABOVE)



04908\_A\_SC

**MOTORS**

Squirrel cage motor in short circuit (TEFC), enclosed construction with external ventilation. The standard supply features Lowara motors for powers up to 11 kW (included) in the 4-pole version, and up to 22 kW (included) in the 2-pole version. Other motor are used for higher powers.

**The Lowara PLM surface motors have efficiency values that fall within the range normally referred to as efficiency class 1.**

Cooling is ensured by a fan according to EN 60034-6.

The cable gland has standard passage dimensions according to EN 50262 (metric size).

The standard protection IP55, insulation class F.

Standard voltage:

- Single-phase version: 220/240 V 50 Hz, with incorporated automatic-reset overload protection up to 1,5 kW.
- Three-phase version: 220-240/380-415 V 50 Hz for powers up to 3 kW. 380-415/660-690 V 50 Hz for powers above 3 kW. Overload protection to be provided by the user.

**Type of motor used:**

**2-Pole**

Single-phase: Lowara SM (up to 1,5 kW).

Lowara PLM (above 1,5 kW).

Three-phase: Lowara SM (up to 2,2 kW).

Lowara PLM (above 2,2 kW).

**4-Pole**

Three-phase: Lowara SM (up to 0,75 kW).

Lowara PLM (above 0,75 kW).

**SHE SERIES  
SINGLE-PHASE 50 Hz, 2-POLE MOTORS**

MOTOR TYPE			INPUT CURRENT	CAPACITOR		DATA FOR 230 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN	In (A)	µF	V	min <sup>-1</sup>	Is / In	η %	cosφ	Tn Nm	Ts/Tn**
			220-240 V								
0,75	90R	B14	4,83-5,23	30	450	2875	5,28	71,8	0,92	2,49	0,70
1,1	90R	B14	6,88-6,65	30	450	2800	3,89	74,7	0,96	3,75	0,46
1,5	90R	B14	9,21-8,58	40	450	2810	4,00	76,1	0,98	5,09	0,39
2,2	90	B14	12,5-11,6	70	450	2825	4,47	82,4	0,97	7,43	0,53

\* R = Reduced size of motor casing as compared to shaft extension and flange.

she-motm-2p50-en\_d\_te

\*\* Ts/Tn = ratio between starting torque and nominal torque.

**SHE SERIES  
THREE-PHASE 50 Hz, 2-POLE MOTORS**

MOTOR TYPE			INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN	In (A)				min <sup>-1</sup>	Is / In	η %	cosφ	Tn Nm	Ts/Tn**
			Δ	Y	Δ	Y						
			220-240 V	380-415 V	380-415 V	660-690 V						
0,75	90R	B14	3,55	2,05	-	-	2905	8,24	77,5	0,68	2,46	5,20
1,1	90R	B14	4,42	2,55	-	-	2855	6,64	78,2	0,80	3,68	3,48
1,5	90R	B14	5,94	3,43	-	-	2855	6,83	79,1	0,80	5,01	3,58
2,2	90R	B14	8,52	4,92	-	-	2835	6,66	81,2	0,80	7,41	3,68
3	90	B14	10,7	6,19	-	-	2885	8,32	85,6	0,82	9,92	3,52
4	112R	B14	-	-	7,63	4,41	2905	9,52	89,1	0,85	13,1	3,04
5,5	112	B14	-	-	10,4	6,00	2900	10,3	87,5	0,87	18,1	4,43
7,5	132	B14	-	-	14,0	8,08	2925	9,21	88,5	0,87	24,5	3,26
9,2	132	B14	-	-	16,8	9,70	2925	9,66	90,0	0,88	30,0	3,17
11	132	B14	-	-	20,5	11,8	2925	9,60	89,6	0,86	35,9	3,47
15	160	B34	-	-	26,0	15,0	2945	8,45	91,7	0,91	48,6	2,26
18,5	160	B34	-	-	33,2	19,2	2950	9,75	92,0	0,88	59,8	2,82
22	160	B34	-	-	38,6	22,3	2955	9,50	92,1	0,89	71,1	2,74

\* R = Reduced size of motor casing as compared to shaft extension and flange.

she-mott-2p50-en\_d\_te

\*\* Ts/Tn = ratio between starting torque and nominal torque.



# ITT

# Lowara

## SHS-SHF SERIES THREE-PHASE 50 Hz, 2-POLE MOTORS

MOTOR TYPE				INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION		In (A)				min <sup>-1</sup>	Is / In	η %	cosφ	Tn	
		SHS	SHF	Δ	Y	Δ	Y					Nm	Ts/Tn**
				220-240 V	380-415 V	380-415 V	660-690 V						
0,75	80R	B5	-	3,45	1,99	-	-	2845	6,00	73,5	0,74	2,52	3,91
0,75	80	-	B3	3,55	2,05	-	-	2905	8,24	77,5	0,68	2,46	5,20
1,1	80	B5	B3	4,42	2,55	-	-	2855	6,64	78,2	0,80	3,68	3,48
1,5	90R	B5	-	5,94	3,43	-	-	2855	6,83	79,1	0,80	5,01	3,58
1,5	90	-	B3	5,23	3,02	-	-	2885	7,86	83,8	0,86	4,96	3,34
2,2	90R	B5	-	8,52	4,92	-	-	2835	6,66	81,2	0,80	7,41	3,68
2,2	90	-	B3	8,04	4,64	-	-	2895	8,63	85,7	0,80	7,25	3,74
3	100R	B5	-	10,7	6,19	-	-	2885	8,32	85,6	0,82	9,92	3,52
3	100	-	B3	10,2	5,91	-	-	2910	9,45	87,4	0,84	9,83	3,59
4	112R	B5	-	-	-	7,63	4,41	2905	9,52	89,1	0,85	13,1	3,04
4	112	-	B3	-	-	7,73	4,46	2890	8,83	86,2	0,87	13,2	3,50
5,5	132R	B5	-	-	-	10,4	6,00	2900	10,3	87,5	0,87	18,1	4,43
5,5	132	-	B3	-	-	10,8	6,24	2940	9,93	88,5	0,83	17,9	3,34
7,5	132	B5	B3	-	-	14,0	8,08	2925	9,21	88,5	0,87	24,5	3,26
11	160	B35	B3	-	-	20,0	11,5	2940	7,43	89,8	0,88	35,7	1,99
15	160	B35	B3	-	-	26,0	15,0	2945	8,45	91,7	0,91	48,6	2,26
18,5	160	B35	B3	-	-	33,2	19,2	2950	9,75	92,0	0,88	59,8	2,82
22	180R	B35	-	-	-	38,6	22,3	2955	9,50	92,1	0,89	71,1	2,74
22	180	-	B3	-	-	41,7	24,1	2930	7,10	90,8	0,84	72,0	2,50
30	200	B35	B3	-	-	54	31,2	2950	6,80	92,5	0,87	97,0	2,40
37	200	B35	B3	-	-	65	37,5	2950	7,20	92,9	0,88	120	2,50
45	225	-	B3	-	-	80	46	2960	6,70	92,9	0,88	145	2,40
55	250	-	B3	-	-	99	57	2955	6,70	93,0	0,87	178	2,40
75	280	-	B3	-	-	133	77	2960	6,80	93,8	0,87	242	2,30

\* R = Reduced size of motor casing as compared to shaft extension and flange.

shs-shf-mott-2p50-en\_d\_te

\*\* Ts/Tn = ratio between starting torque and nominal torque.



# ITT

# Lowara

## SHE SERIES THREE-PHASE 50 Hz, 4-POLE MOTORS

MOTOR TYPE			INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE*	CONSTRUCTION DESIGN	In (A)				min <sup>-1</sup>	Is / In	η %	cosφ	Tn Nm	Ts/Tn**
			Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V						
0,25	71	B5	1,71	0,99	-	-	1390	3,58	62,0	0,59	1,71	3,16
0,37	71	B5	2,53	1,46	-	-	1370	3,39	61,4	0,60	2,57	3,40
0,55	90R	B14	3,03	1,75	-	-	1390	3,95	68,2	0,67	3,77	2,45
0,75	90R	B5	4,04	2,33	-	-	1395	4,06	70,1	0,66	5,13	2,73
1,1	90	B5	4,61	2,66	-	-	1440	6,34	83,5	0,72	7,27	2,80
1,5	90	B5	6,51	3,76	-	-	1450	6,79	85,7	0,67	9,88	3,33
2,2	100	B5	8,31	4,80	-	-	1455	7,50	85,6	0,77	14,4	2,71
3	100	B5	11,9	6,89	-	-	1460	7,84	86,6	0,73	19,6	2,96
4	112	B5	-	-	8,64	4,99	1450	7,91	85,9	0,78	26,3	2,86
5,5	132	B14	-	-	11,5	6,64	1460	7,89	88,4	0,78	35,9	2,79
7,5	132	B14	-	-	15,6	9,01	1455	7,71	88,7	0,78	49,1	2,75
11	160	B34	-	-	21,2	12,2	1465	6,94	90,0	0,83	71,6	2,34

\* R = Reduced size of motor casing as compared to shaft extension and flange.

she-mott-4p50-en\_d\_te

\*\* Ts/Tn = ratio between starting torque and nominal torque.

## SHS-SHF SERIES THREE-PHASE 50 Hz, 4-POLE MOTORS

MOTOR TYPE				INPUT CURRENT				DATA FOR 400 V 50 Hz VOLTAGE					
kW	IEC SIZE	CONSTRUCTION DESIGN		In (A)				min <sup>-1</sup>	Is / In	η %	cosφ	Tn Nm	Ts/Tn**
		SHS	SHF	Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V						
0,25	71	-	B3	1,71	0,99	-	-	1390	3,58	62,0	0,59	1,71	3,16
0,37	71	-	B3	2,53	1,46	-	-	1370	3,39	61,4	0,60	2,57	3,40
0,55	80	B5	B3	3,03	1,75	-	-	1390	3,95	68,2	0,67	3,77	2,45
0,75	80	B5	B3	4,04	2,33	-	-	1395	4,06	70,1	0,66	5,13	2,73
1,1	90	B5	B3	4,61	2,66	-	-	1440	6,34	83,5	0,72	7,27	2,80
1,5	90	B5	B3	6,51	3,76	-	-	1450	6,79	85,7	0,67	9,88	3,33
2,2	100	B5	B3	8,31	4,80	-	-	1455	7,50	85,6	0,77	14,4	2,71
3	100	B5	B3	11,9	6,89	-	-	1460	7,84	86,6	0,73	19,6	2,96
4	112	B5	B3	-	-	8,64	4,99	1450	7,91	85,9	0,78	26,3	2,86
5,5	132	B5	B3	-	-	11,5	6,64	1460	7,89	88,4	0,78	35,9	2,79
7,5	132	B5	B3	-	-	15,6	9,01	1455	7,71	88,7	0,78	49,1	2,75
11	160	B35	B3	-	-	21,2	12,2	1465	6,94	90,0	0,83	71,6	2,34

\*\* Ts/Tn = ratio between starting torque and nominal torque.

shs-shf-mott-4p50-en\_d\_te

**MOTOR NOISE**

The tables below show the mean sound pressure levels (Lp) measured at 1 meter's distance in a free field according to the A curve (ISO 1680 standard).

The noise values are measured with idling 50 Hz motor with a tolerance of 3 dB (A).

**SHE-SHS MOTORS  
50 Hz 2-POLE**

POWER	MOTOR TYPE	NOISE
kW	IEC* SIZE	LpA dB
0,75	90R	<70
1,1	90R	<70
1,5	90R	<70
2,2	90R	<70
3	90	<70
3	100R	<70
4	112R	<70
5,5	112	<70
7,5	132	71
9,2	132	73
11	132	73
11	160	71
15	160	71
18,5	160	73
22	160	70
22	180R	70
30	200	80
37	200	80

**SHF MOTORS  
50 Hz 2-POLE**

POWER	MOTOR TYPE	NOISE
kW	IEC SIZE	LpA dB
0,75	80	<70
1,1	80	<70
1,5	90	<70
2,2	90	<70
3	100	<70
4	112	<70
5,5	132	71
7,5	132	71
11	160	71
15	160	71
18,5	160	73
22	180	78
30	200	80
37	200	80
45	225	84
55	250	84
75	280	84

**SHE4-SHS4 MOTORS  
50 Hz 4-POLE**

POWER	MOTOR TYPE	NOISE
kW	IEC* SIZE	LpA dB
0,25	71	<70
0,37	71	<70
0,55	90R	<70
0,75	90R	<70
1,1	90	<70
1,5	90	<70
2,2	100	<70
3	100	<70
4	112	<70
5,5	132	<70
7,5	132	<70
11	160	<70

**SHF4 MOTORS  
50 Hz 4-POLE**

POWER	MOTOR TYPE	NOISE
kW	IEC SIZE	LpA dB
0,25	71	<70
0,37	71	<70
0,55	80	<70
0,75	80	<70
1,1	90	<70
1,5	90	<70
2,2	100	<70
3	100	<70
4	112	<70
5,5	132	<70
7,5	132	<70
11	160	<70

\*R=Reduced size of motor as compared to shaft extension and flange.

sh\_she-shs-shf\_mott-en\_c\_tr



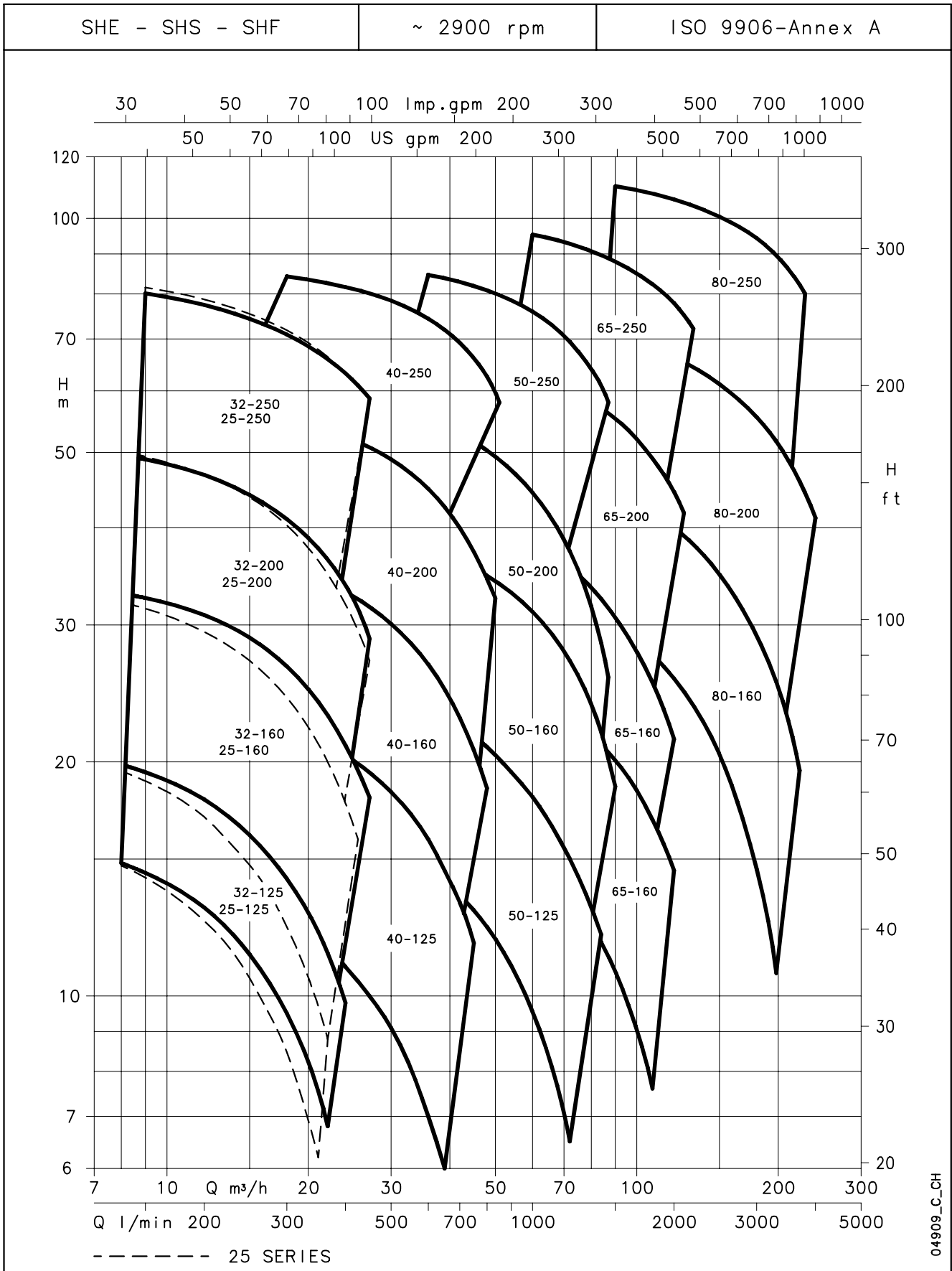


# ITT

# Lowara

## SHE-SHS-SHF SERIES

### HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 2 POLES



04909\_C\_CH

These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES

### TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 2 POLES

PUMP TYPE	RATED POWER		Q = DELIVERY																			
	kW	HP	Vmin 0	150	200	250	300	400	450	600	700	800	900	1000	1200	1500	1800	2000	2500	3150	3700	
			m³/h 0	9	12	15	18	24	27	36	42	48	54	60	72	90	108	120	150	189	222	
H = TOTAL HEAD METRES COLUMN OF WATER																						
25-125/07 *	0,75	1	17,3	14,2	12,5	10,5	8,4															
25-125/11 *	1,1	1,5	22,3	18,9	17	14,7	12,3															
25-160/15 *	1,5	2	27,7	24,8	22,9	20,5	17,9	11,9														
25-160/22 *	2,2	3	34,6	31,5	29,4	27	24,2	17,7														
25-200/30	3	4	44,9	39,2	36,7	33,8	30,4	22,4														
25-200/40	4	5,5	54,5	49,4	46,8	43,8	40,3	31,9	27													
25-250/55	5,5	7,5	61,4	55,8	53,2	50,3	47	39,2														
25-250/75	7,5	10	75,9	69,3	66,5	63,2	59,6	51,1														
25-250/110	11	15	87,5	81,5	78,7	75,4	71,8	63,3	58,4													
32-125/07 *	0,75	1	16,6	14,4	13	11,3	9,5															
32-125/11 *	1,1	1,5	21,6	19,4	17,8	16,2	14,2	9,8														
32-160/15 *	1,5	2	27,6	24,6	22,7	20,6	18,1	12,7														
32-160/22 *	2,2	3	35	32,5	31	29	26,6	21	18													
32-200/30	3	4	43,7	38,5	36	33	30	22,3														
32-200/40	4	5,5	53,5	49	46,8	44	41	33,8	28,8													
32-250/55	5,5	7,5	61,7	56,7	54,2	51,2	47,9	40														
32-250/75	7,5	10	74,1	68,9	66,2	63	60	52,2														
32-250/110	11	15	86,2	80,1	77,5	74,3	71	63,3	58,7													
40-125/11 *	1,1	1,5	14,4				12,5	10,9	10	7												
40-125/15 *	1,5	2	17,5				16	14,4	13,4	10,2	8											
40-125/22 *	2,2	3	25,3				22,2	20,4	19,5	15,9	13,2											
40-160/30	3	4	32,2				29,5	26,9	25,4	20,8	17											
40-160/40	4	5,5	38				35,5	33,2	31,7	26,7	22,8	18,5										
40-200/55	5,5	7,5	49,1				46,4	43,8	42	36,2	31	25										
40-200/75	7,5	10	58,2				55,1	52,3	50,8	45	40	34,5										
40-250/ **	**	**	64,9				62	59,5	58	51,5	44,6											
40-250/110	11	15	74,7				71,4	69	67,8	61,5	55,2											
40-250/150	15	20	87,7				84,2	81,5	80	74,3	69,2	62,5										
50-125/22 *	2,2	3	17,2						14,6	13,4	12,2	11	9,5	6,5								
50-125/30	3	4	21,7						18,8	17,5	16,3	14,8	13,4	10,5								
50-125/40	4	5,5	25,7						23,3	22,2	20,8	19,3	18	15								
50-160/55	5,5	7,5	34,1						30,6	29,2	27,6	28	26,6	19,8								
50-160/75	7,5	10	40,8						37,5	36,2	34,8	25,8	24	27	18,6							
50-200/ **	**	**	53						47,5	45,3	42,8	40	36,8	29,8								
50-200/110	11	15	60,1						55	52,8	50,3	47,5	44,3	37,5								
50-250/150	15	20	70,2						66,6	65	63,3	61	58,3	51								
50-250/185	19	25	80						75	73,2	71,4	69	66,3	59,5								
50-250/220	22	30	88,9						84,6	82,8	80,7	78,5	75,8	69,5								
65-160/40	4	5,5	19,6								16,8	16	15,2	13,5	10,8	7,6						
65-160/55	5,5	7,5	24,2								21,4	20,7	19,8	18	15,2	11,8						
65-160/75	7,5	10	28,2								26	25,3	24,7	23	20	16,8	14,5					
65-160/ **	**	**	38,2								35,4	34,3	33	30	25,5	20						
65-160/110	11	15	43,2								40,8	39,8	38,5	35,5	30,6	25,4	21,4					
65-200/150	15	20	53									48,8	47,5	44,3	38,5	32						
65-200/185	19	25	60,2									56,5	55,3	52	47	40	35,4					
65-200/220	22	30	68									64,4	63,3	60	55	49	44,5					
65-250/300	30	40	84,3										81,7	79,5	75	69	64					
65-250/370	37	50	98										95,3	93	88	82,5	78					
80-160/110	11	15	33,6											31,9	30	27,5	25,5	20,5	12,5			
80-160/150	15	20	40,3											38,8	37	34,5	33	27,5	20			
80-160/185	19	25	47,2											45,7	44	41,5	40	35	27,5	19,5		
80-200/220	22	30	53												49,8	47,5	46	41	33,5			
80-200/300	30	40	63,6												61,2	59	57	52	44	36,5		
80-200/370	37	50	71,4												69,5	67,5	66	61	53,5	46		
80-250/450***	45	60	83,5												80,5	78	76	70	61			
80-250/550***	55	75	95,7												93,6	91	89	83,5	75	64,6		
80-250/750***	75	100	112												110	108	106	101	92	82		

\* A single-phase version (SHEM) is also available

\*\* /92 = 9.2kW - 12.5HP SHE \*\* /110 = 11kW - 15HP SHS

\*\*\* Only the SHF version is available

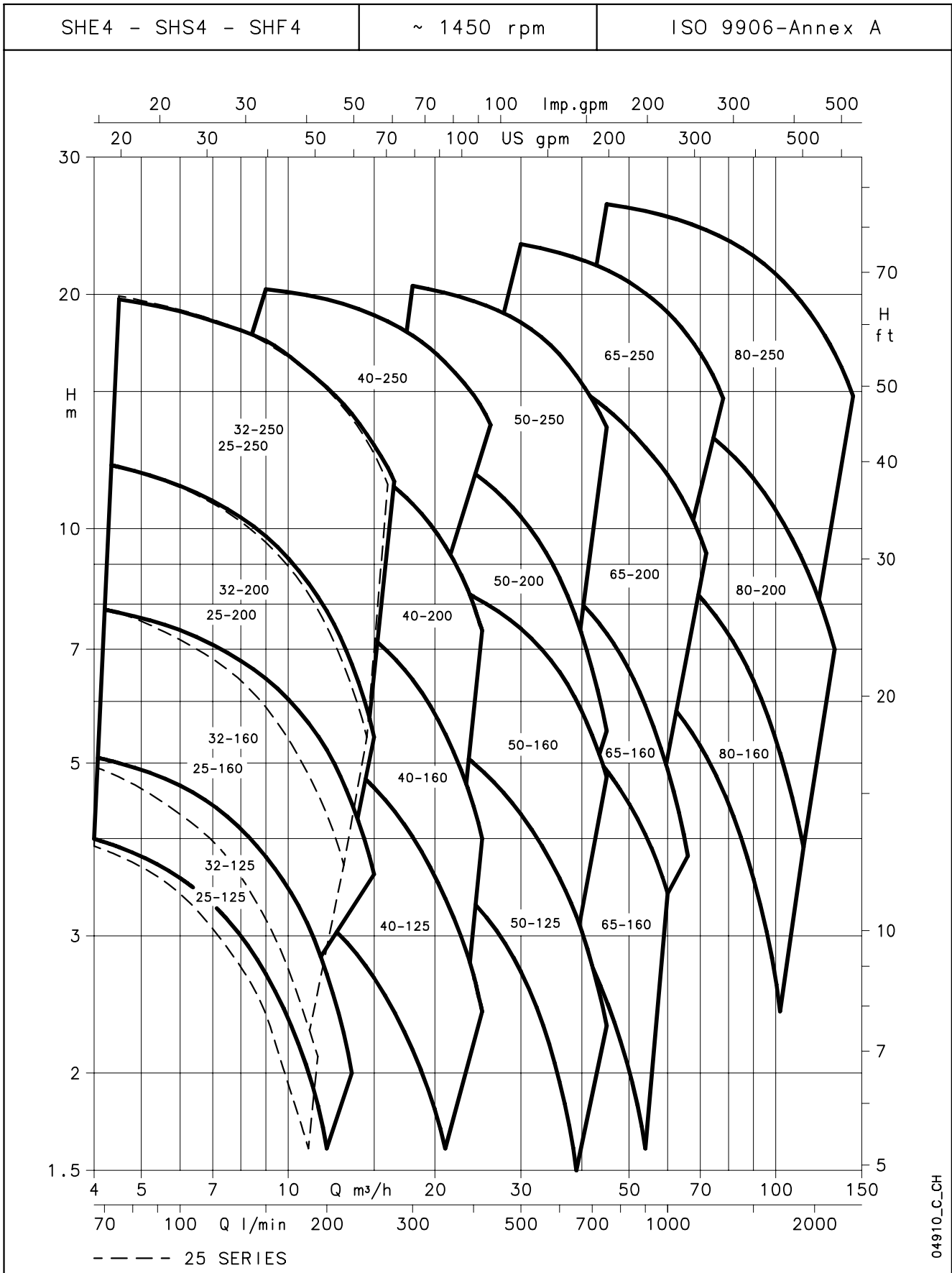
Performances according to ISO standards 9906 - Annex A.



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES HYDRAULIC PERFORMANCE RANGE AT 50 Hz, 4 POLES



04910\_C\_CH

These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES

### TABLE OF HYDRAULIC PERFORMANCES AT 50 Hz, 4 POLES

PUMP TYPE	RATED POWER		Q = DELIVERY																		
			l/min	75	100	125	150	200	250	300	350	400	450	500	600	750	1000	1200	1800	2000	2200
			m <sup>3</sup> /h	0	4,5	6	7,5	9	12	15	18	21	24	27	30	36	45	60	72	108	120
kW		HP		H = TOTAL HEAD METRES COLUMN OF WATER																	
25-125/02A *	0,25	0,33	4,4	3,8	3,4	2,9	2,4														
25-125/02 *	0,25	0,33	5,6	4,8	4,3	3,8	3,2														
25-160/02 *	0,25	0,33	6,9	6,1	5,6	5,1	4,4	2,9													
25-160/03 *	0,37	0,5	8,6	7,8	7,2	6,6	5,9	4,3													
25-200/03 *	0,37	0,5	11	9,4	8,7	8	7,1	5,1													
25-200/05 *	0,55	0,75	13,4	12	11,3	10,5	9,6	7,5													
25-250/07	0,75	1	14,9	13,3	12,6	11,9	11	9	6,7												
25-250/11	1,1	1,5	18,8	17,1	16,3	15,5	14,6	12,4	9,9												
25-250/15	1,5	2	21,5	19,9	19,1	18,3	17,3	15,1	12,6												
32-125/02A *	0,25	0,33	4,4	3,9	3,6	3,1	2,7	1,6													
32-125/02 *	0,25	0,33	5,5	5	4,7	4,3	3,8	2,7													
32-160/02 *	0,25	0,33	6,9	5,9	5,4	4,9	4,4	2,9													
32-160/03 *	0,37	0,5	8,6	7,8	7,4	6,9	6,4	5,2	3,6												
32-200/03 *	0,37	0,5	10,8	9,4	8,7	7,9	7	5,1													
32-200/05 *	0,55	0,75	13,2	12	11,3	10,6	9,8	7,8	5,4												
32-250/07	0,75	1	14,5	13	12,3	11,6	10,8	8,9	6,5												
32-250/11	1,1	1,5	18,4	16,8	16,1	15,3	14,4	12,5	10,1												
32-250/15	1,5	2	21,3	19,7	19	18,2	17,5	15,2	12,8												
40-125/02A *	0,25	0,33	3,5				3	2,7	2,3	1,8	1,3										
40-125/02 *	0,25	0,33	5,4				4,8	4,4	3,9	3,3	2,7	2									
40-125/03 *	0,37	0,5	6,3				5,7	5,2	4,7	4	3,3	2,7									
40-160/03 *	0,37	0,5	8				7,2	6,6	5,9	5,2	4	3,1									
40-160/05 *	0,55	0,75	9,2				8,5	7,9	7,2	6,4	5,4	4,4									
40-200/07	0,75	1	11,9				11,2	10,5	9,7	8,6	7,3	5,8									
40-200/11	1,1	1,5	14,2				13,3	12,7	11,8	10,8	9,5	8									
40-250/11	1,1	1,5	15,7				15	14	13	11,9	10,3										
40-250/15	1,5	2	18,1				17	16,3	15,6	14,5	13	11,4									
40-250/22	2,2	3	21,5				20,3	19,7	18,8	17,7	16,3	14,8									
50-125/03A *	0,37	0,5	4,4							3,8	3,6	3,3	3	2,7	1,9						
50-125/03 *	0,37	0,5	5,4							4,6	4,3	4	3,7	3,3	2,6						
50-125/05 *	0,55	0,75	6,4							5,6	5,3	5	4,7	4,3	3,6	2,3					
50-160/07	0,75	1	8,2							7,3	7	6,7	6,3	5,8	5						
50-160/11	1,1	1,5	9,9							8,8	8,5	8,2	7,8	7,5	6,5	4,8					
50-200/11	1,1	1,5	12,8							11,2	10,7	10	9,3	8,6	6,8						
50-200/15	1,5	2	14,7							13	12,4	11,8	11,2	10,3	8,7	5,5					
50-250/22A	2,2	3	17,5							16	15,5	15	14,3	13,8	12						
50-250/22	2,2	3	19,4							17,8	17,3	16,8	16,2	15,4	13,8						
50-250/30	3	4	21,9							20,5	20,2	19,6	19	18,4	16,7	13,5					
65-160/05	0,55	0,75	5,4									4,2	3,9	3,7	3,2	2,5					
65-160/07	0,75	1	6,4									5,3	5,1	4,8	4,4	3,6					
65-160/11A	1,1	1,5	7,6									7	6,3	6,1	5,7	4,9	3,4				
65-160/11	1,1	1,5	9,4									8,5	8,2	8	7	5,9	3,4				
65-160/15	1,5	2	10,6									9,7	9,5	9,2	8,5	7,3	4,9				
65-200/15	1,5	2	11,9									10,6	10,2	9,3	7,9	5,1					
65-200/22	2,2	3	14,4									13,2	12,8	12	10,6	7,8					
65-200/30	3	4	17,5									16,6	16,3	15,6	14,2	11,7	9,3				
65-250/40	4	5,5	20,7										19,5	18,8	17,7	15	12				
65-250/55	5,5	7,5	24										23,2	22,7	21,4	19	16,4				
80-160/15	1,5	2	8,3											7,6	7	6	5,2				
80-160/22A	2,2	3	9,6											9	8,5	7,5	6,5	3,2			
80-160/22	2,2	3	11											10,4	9,8	9	8	4,5			
80-200/30	3	4	12,9												12	10,8	9,8	6,1	4,6		
80-200/40	4	5,5	16,1												15,4	14,3	11,3	9,7	8,4	7	
80-250/55	5,5	7,5	20,3												19,5	18,4	17,3	12,3	10,1		
80-250/75	7,5	1	23,1												22,2	21,3	20,3	16,1	14,2	12,2	
80-250/110	11	15	26,7												26,1	25,2	24,2	20,2	18,6	16,8	

\* SHS4 version is not available.

she4-shs4-shf4-4p50-en\_f\_th

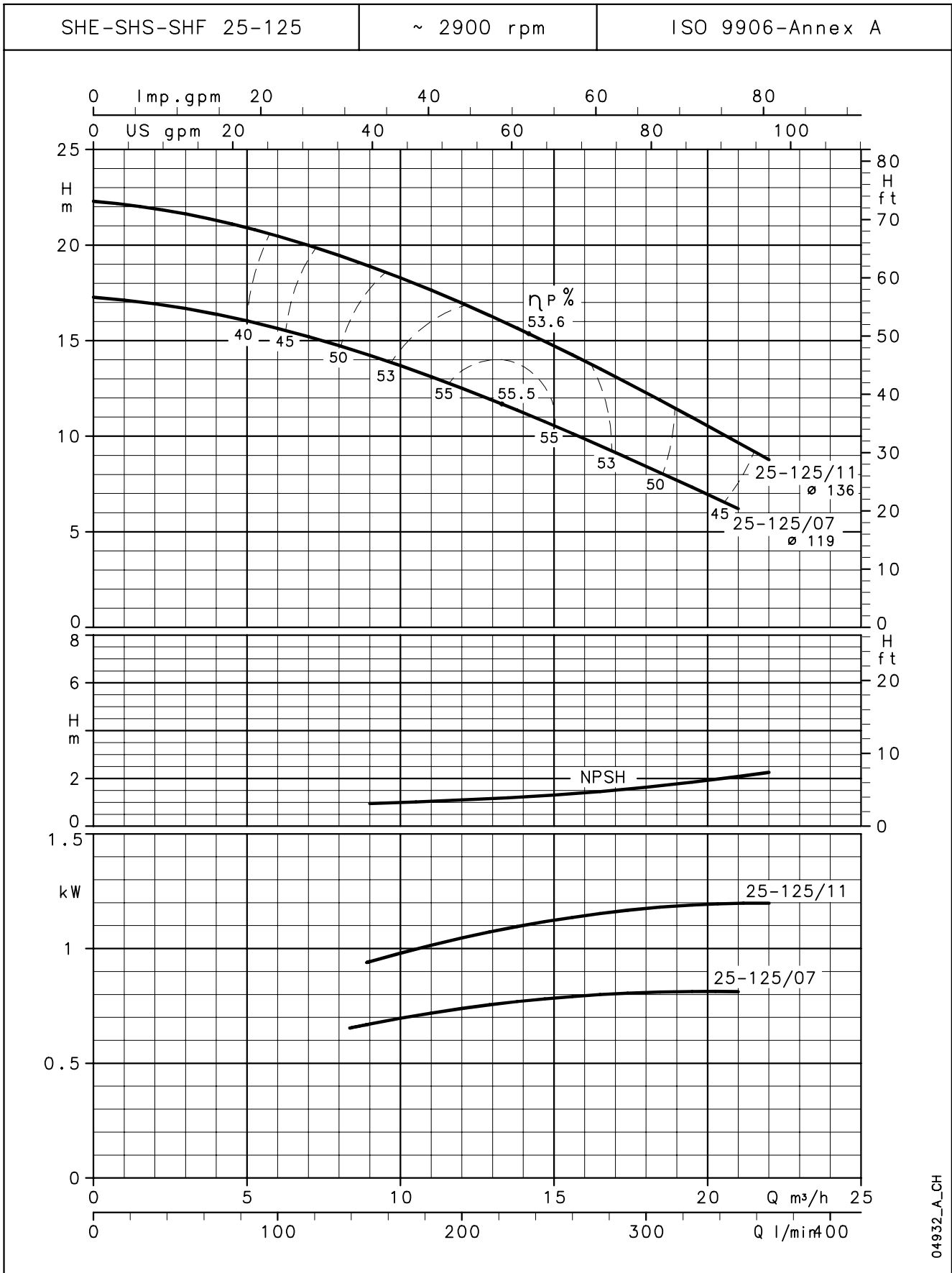
Performances according to ISO standards 9906 - Annex A.



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04932\_A\_CH

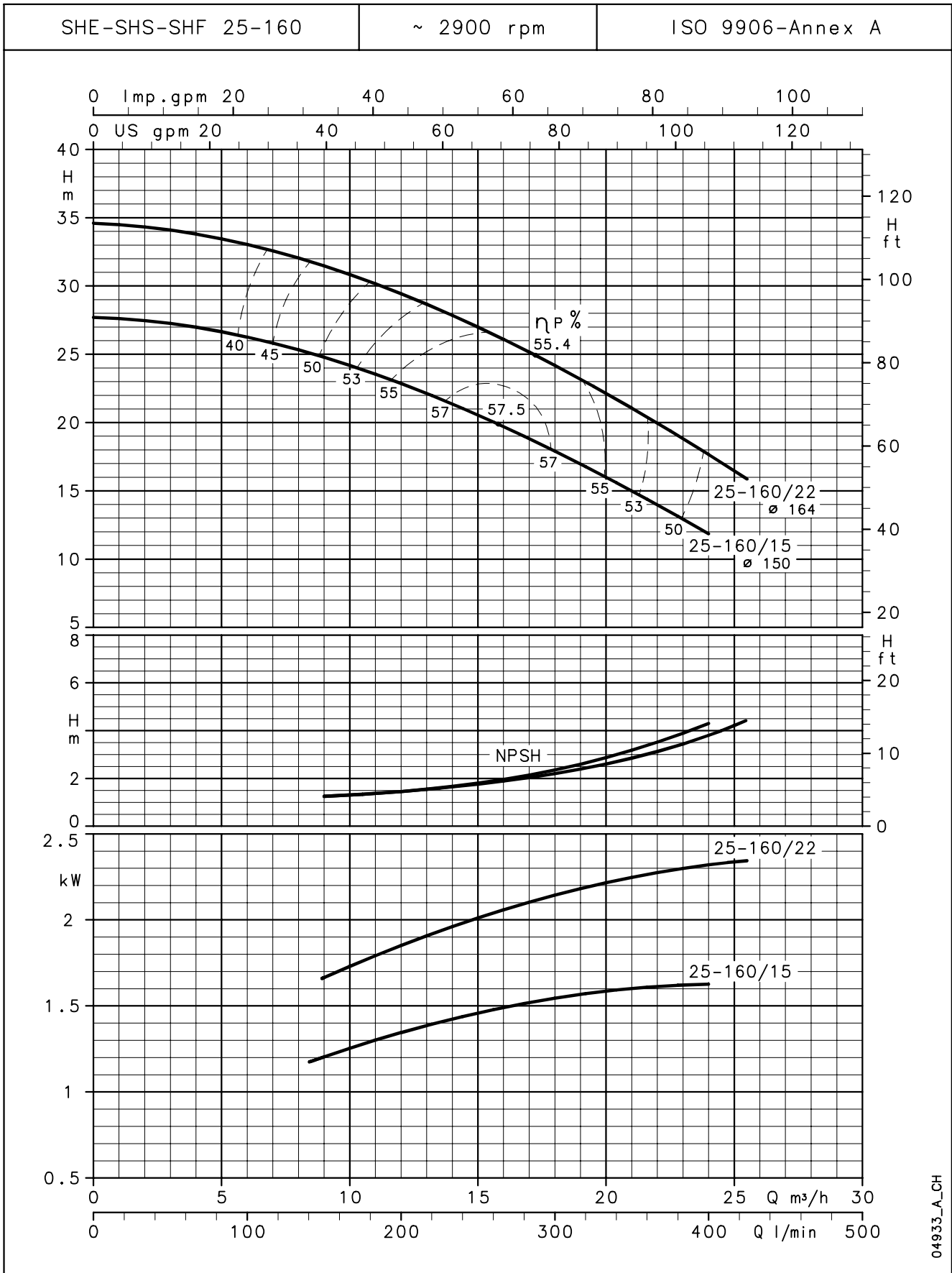
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04933\_A\_CH

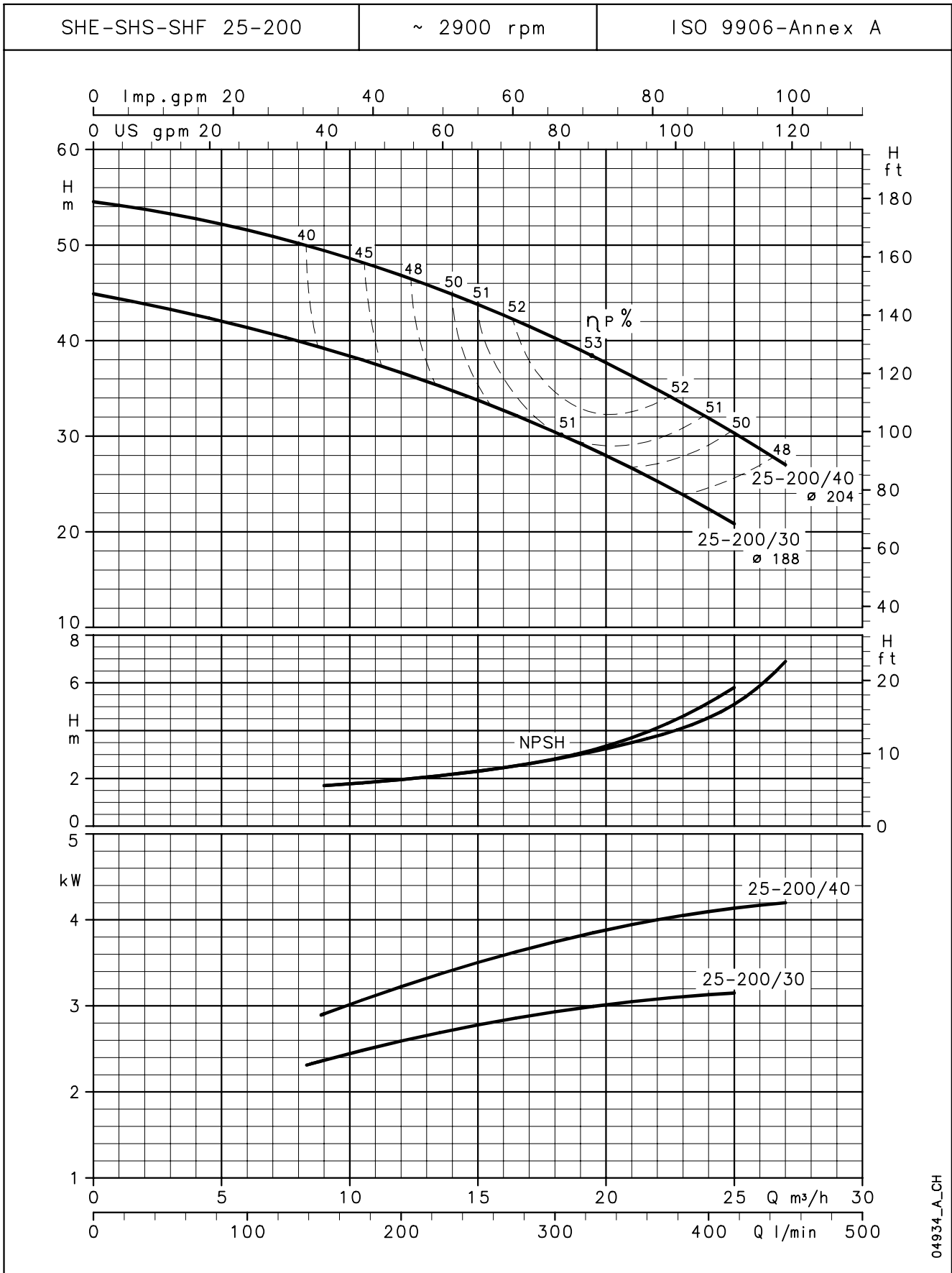
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density ρ = 1,0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04934\_A\_CH

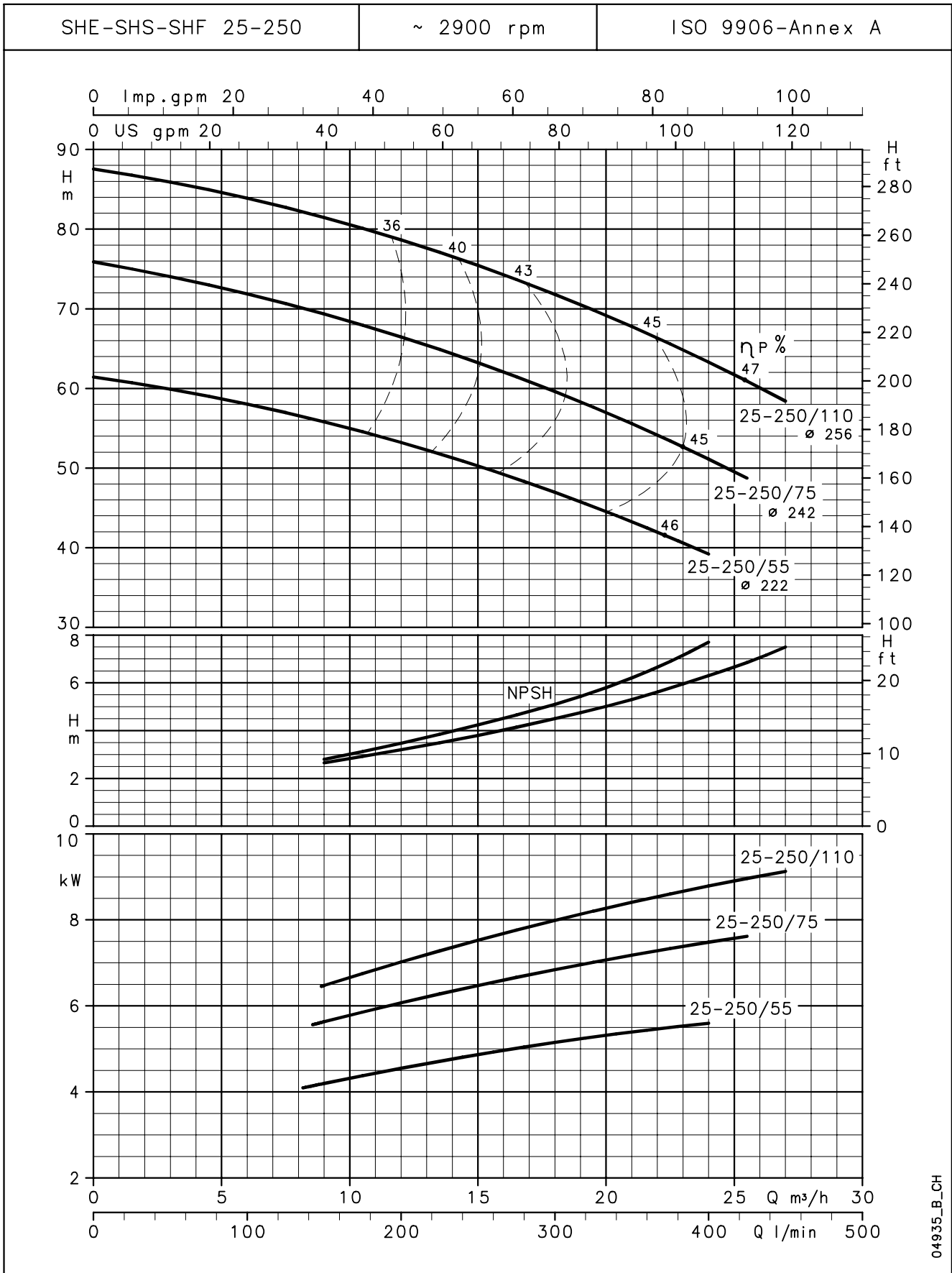
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04935\_B\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

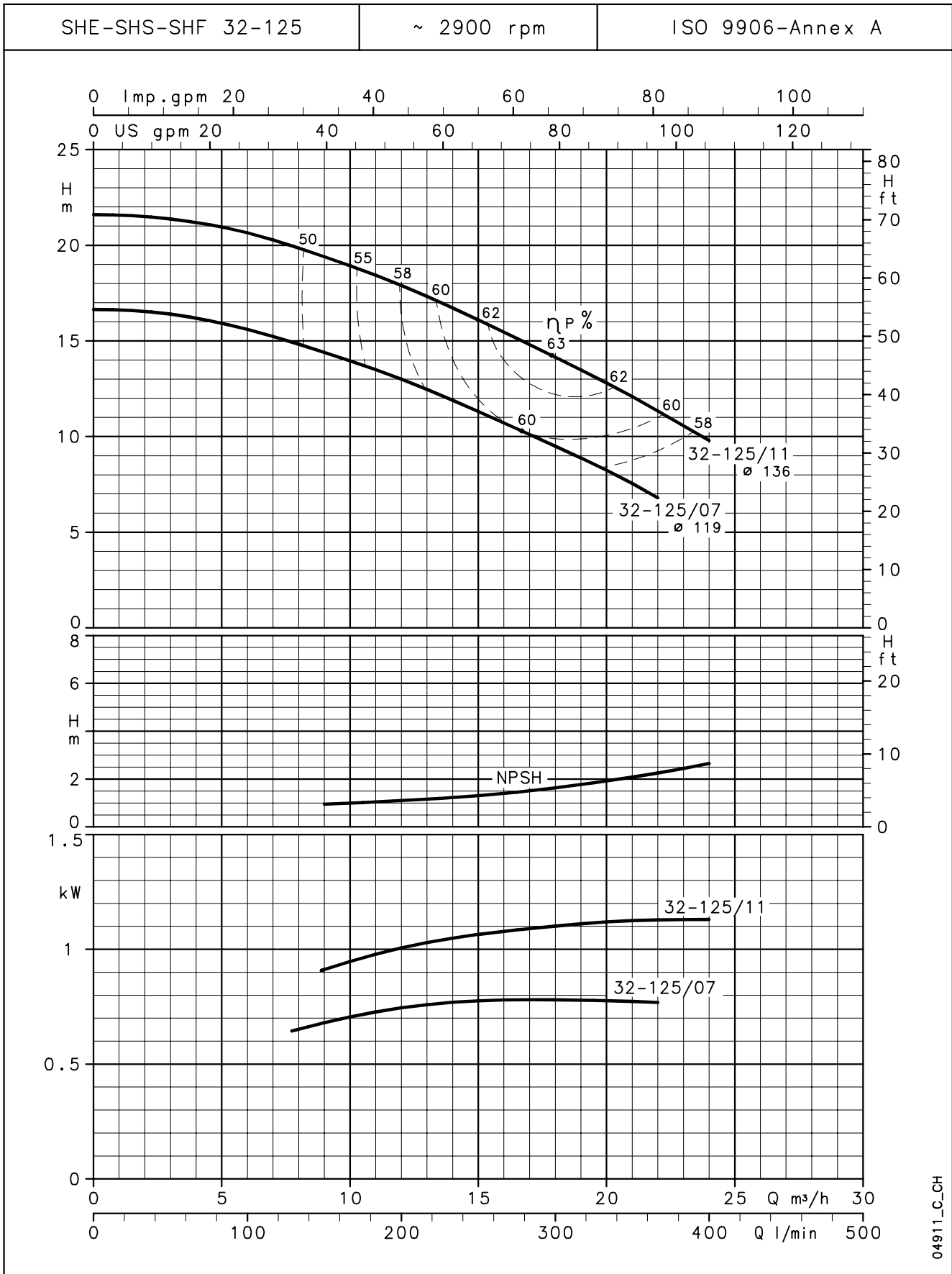




# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04911\_C\_CH

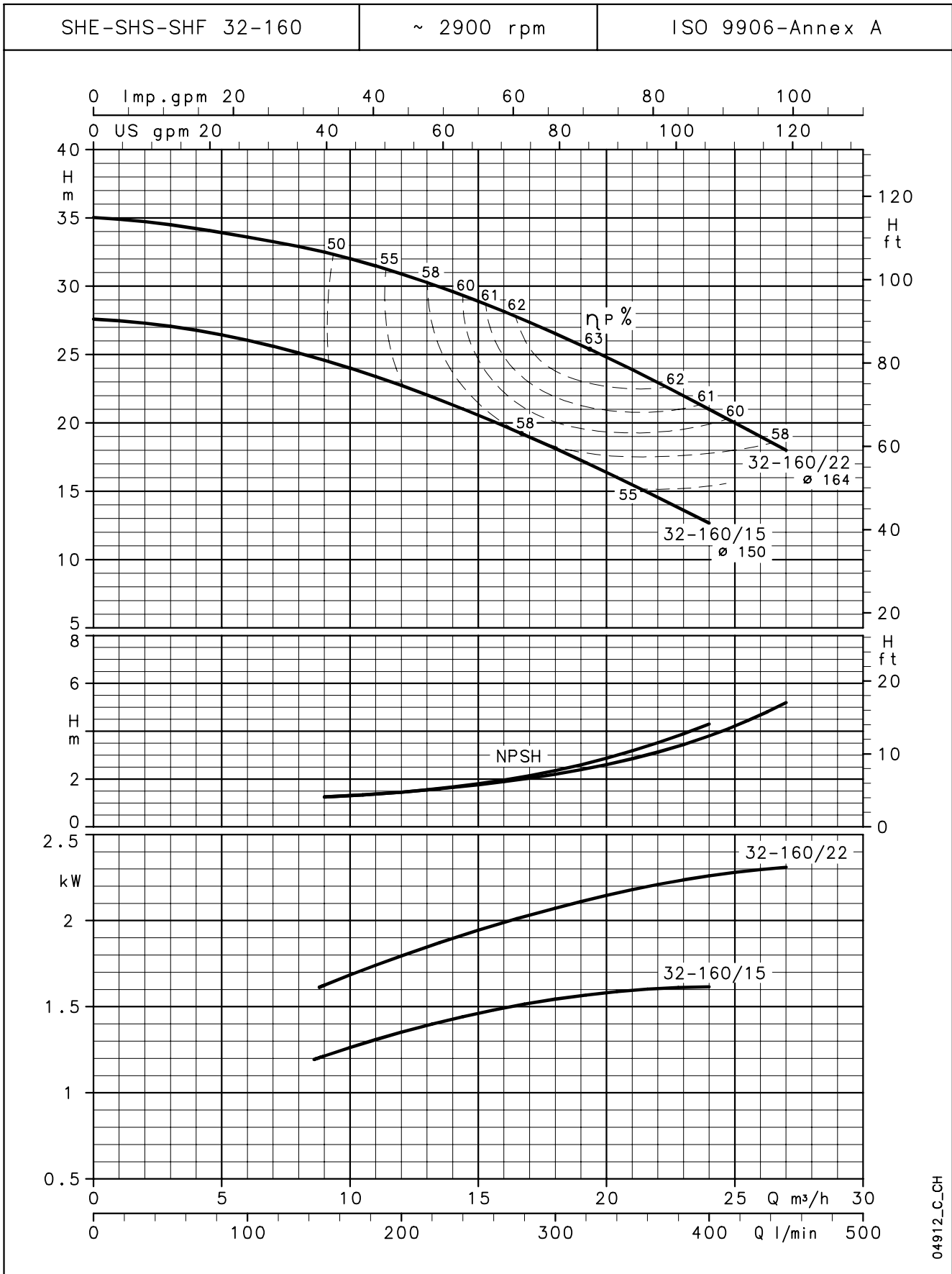
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04912\_C\_CH

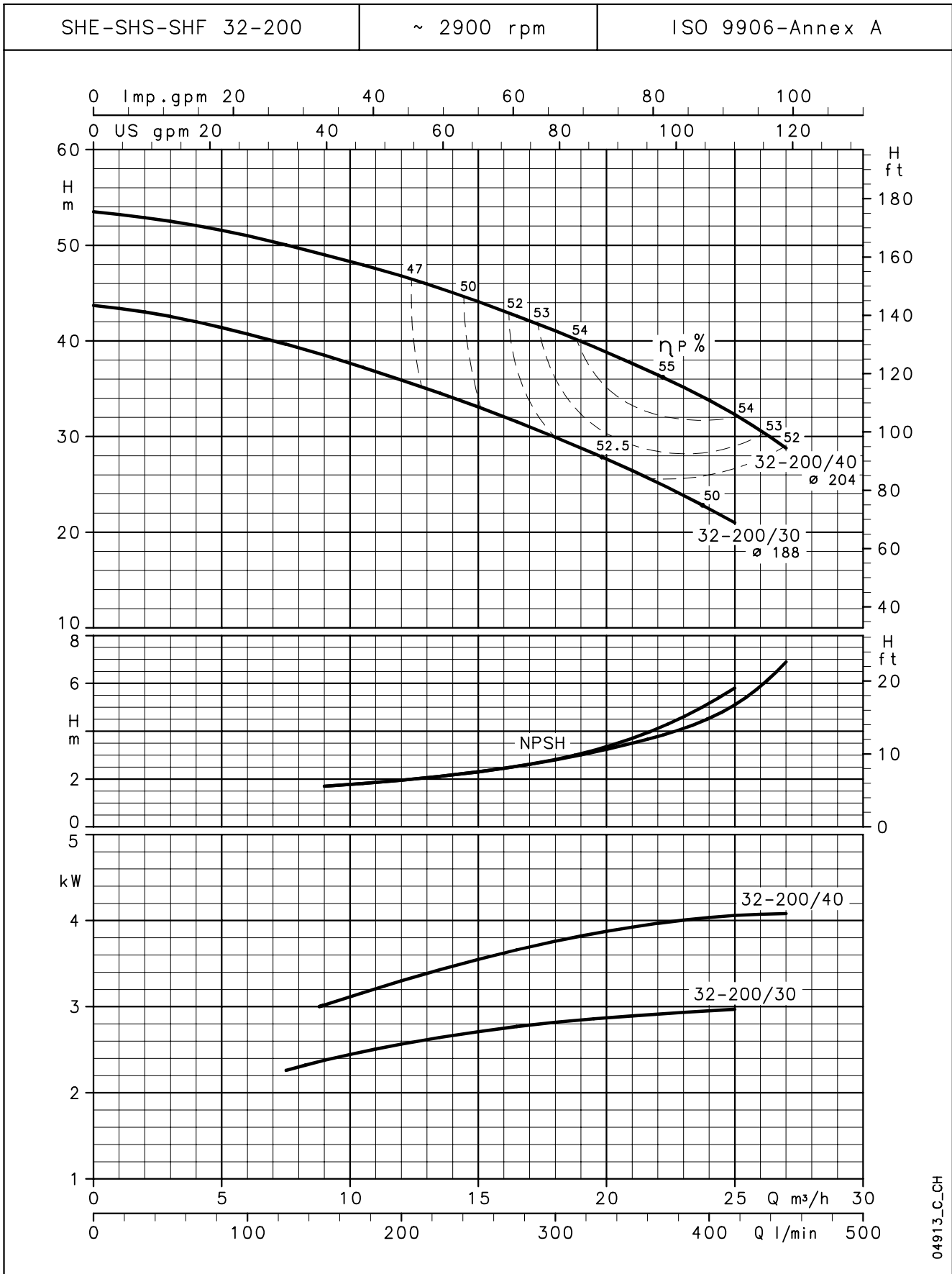
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04913\_C\_CH

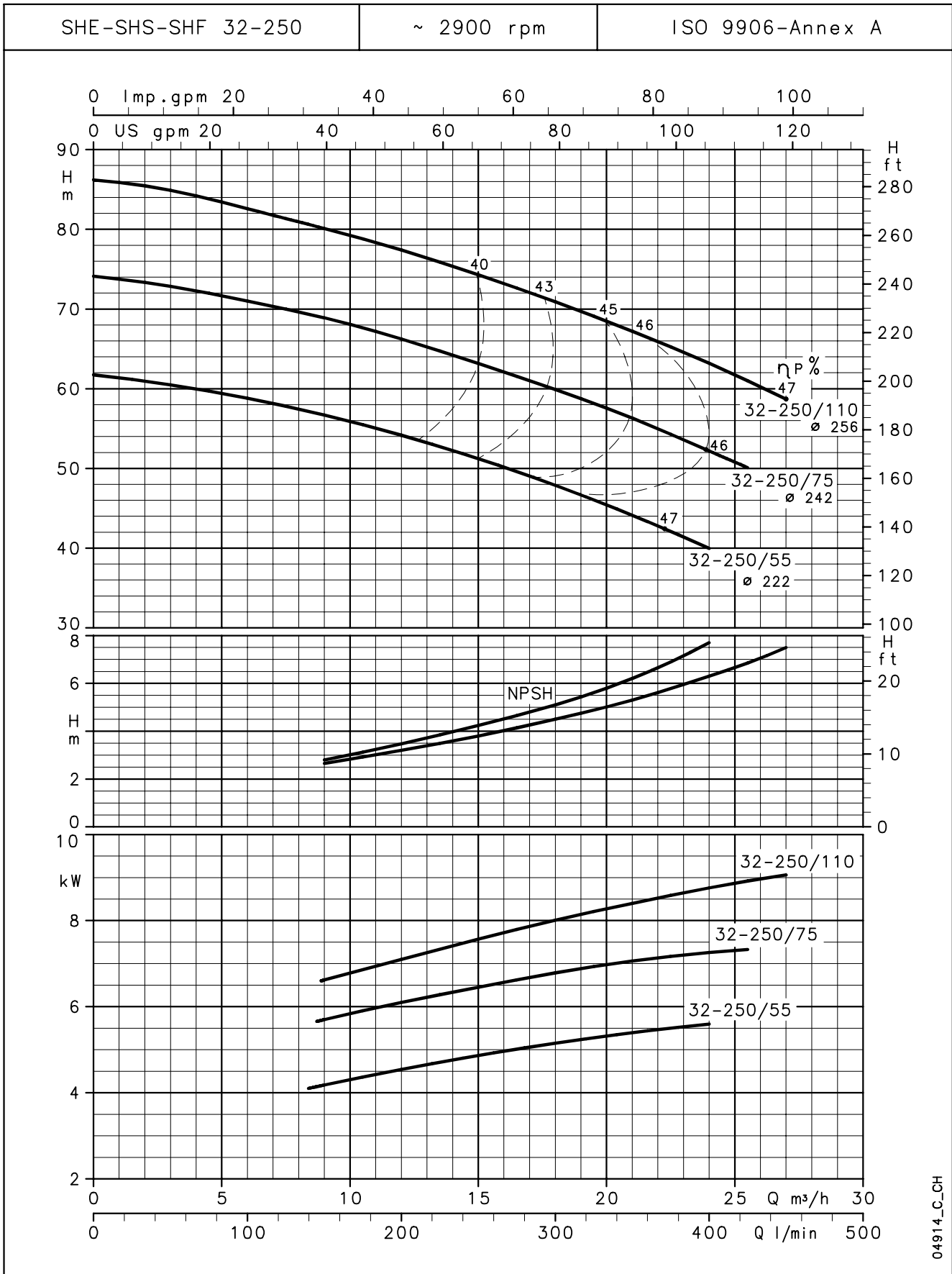
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04914\_C\_CH

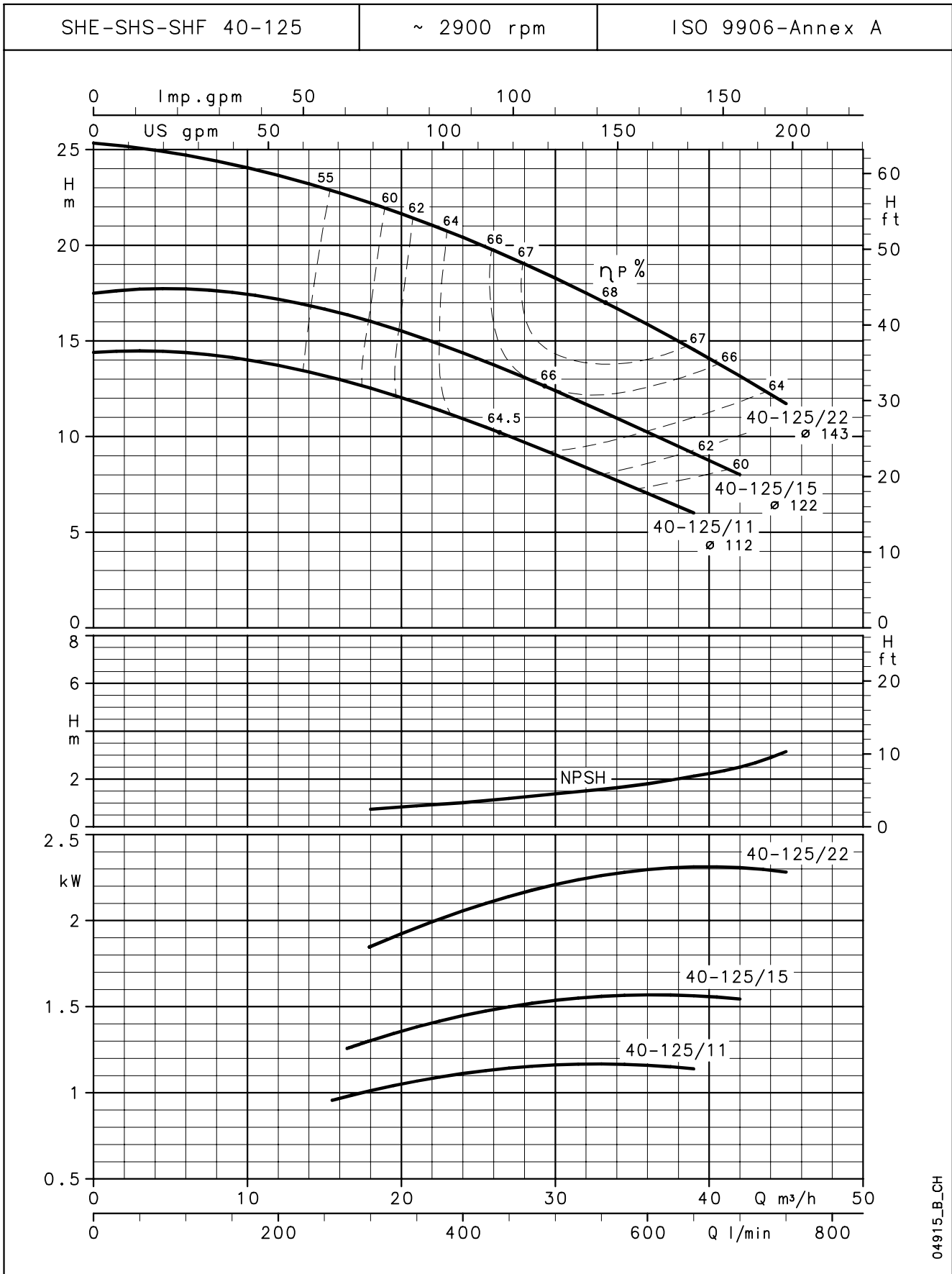
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density ρ = 1,0 Kg/dm<sup>3</sup> and kinematic viscosity ν = 1 mm<sup>2</sup>/sec.



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04915\_B\_CH

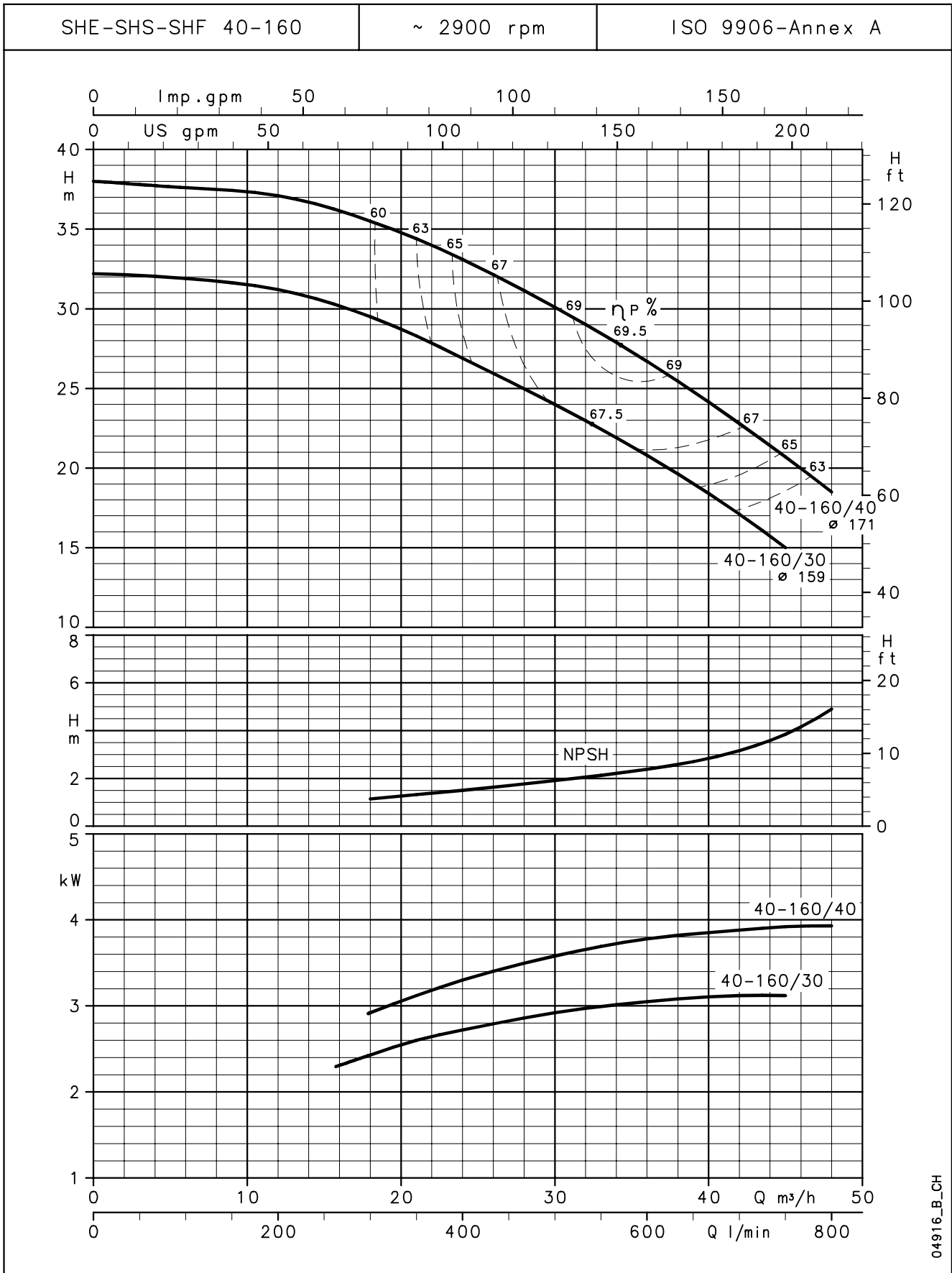
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04916\_B\_CH

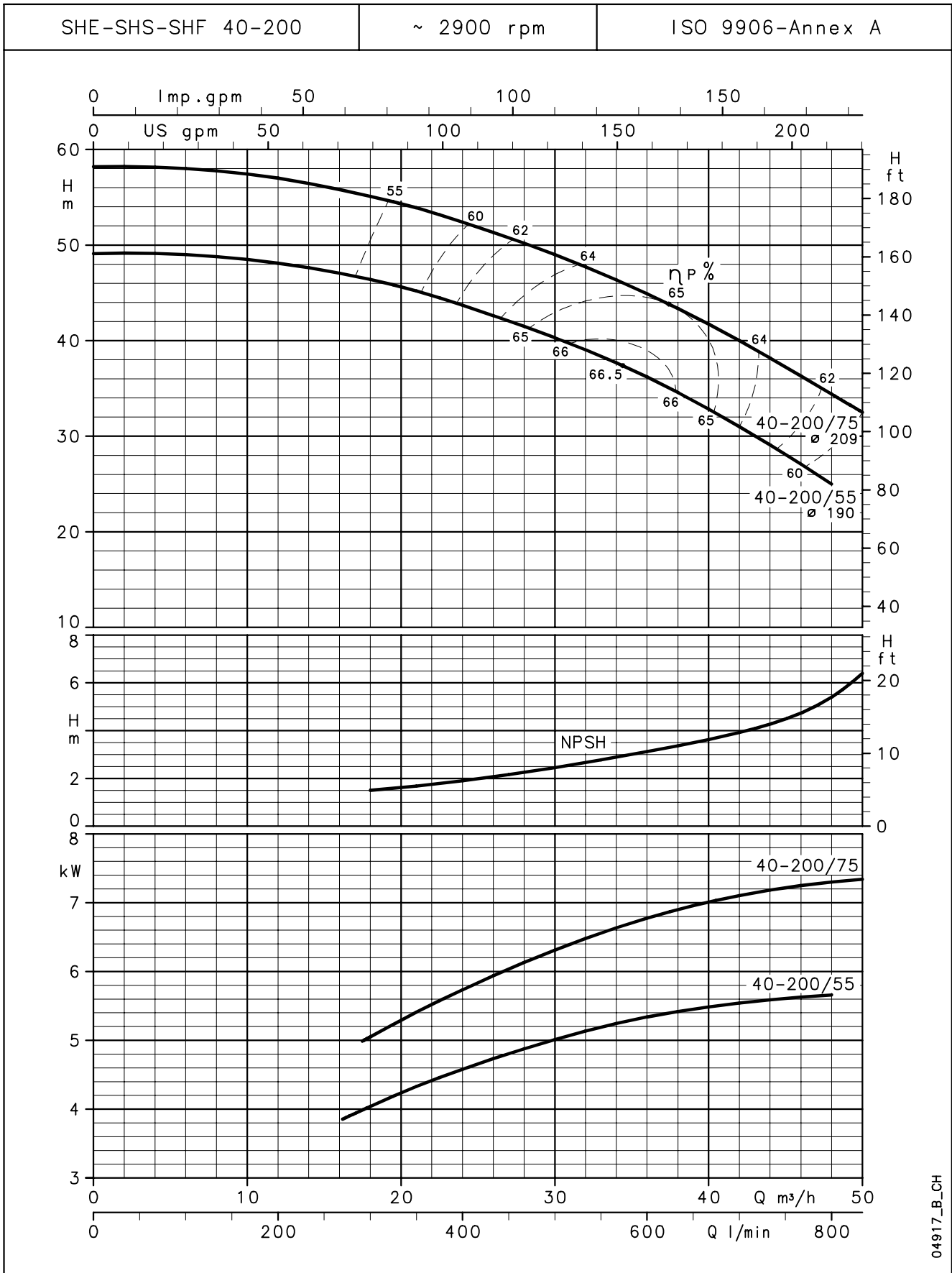
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04917\_B\_CH

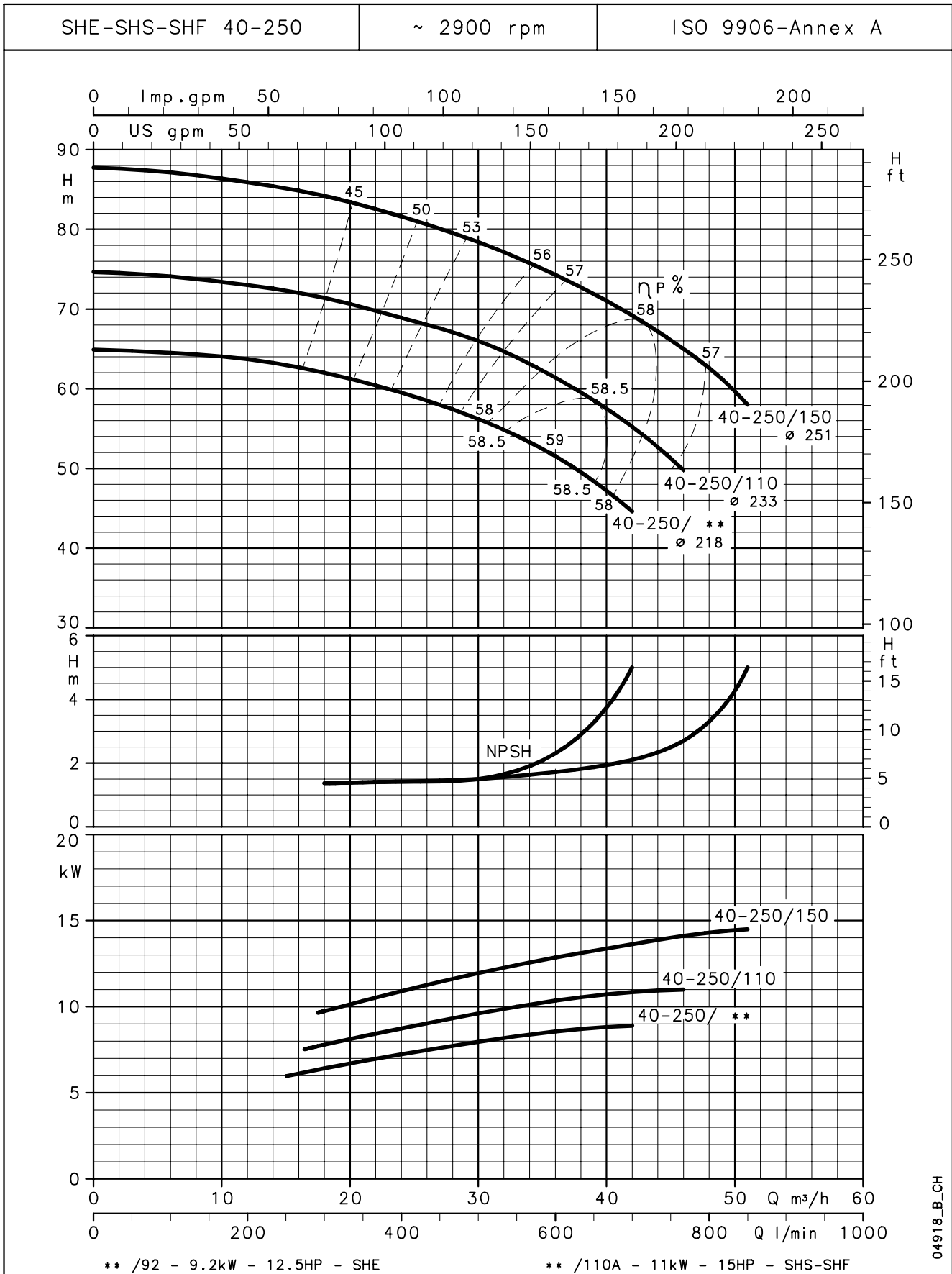
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
 These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

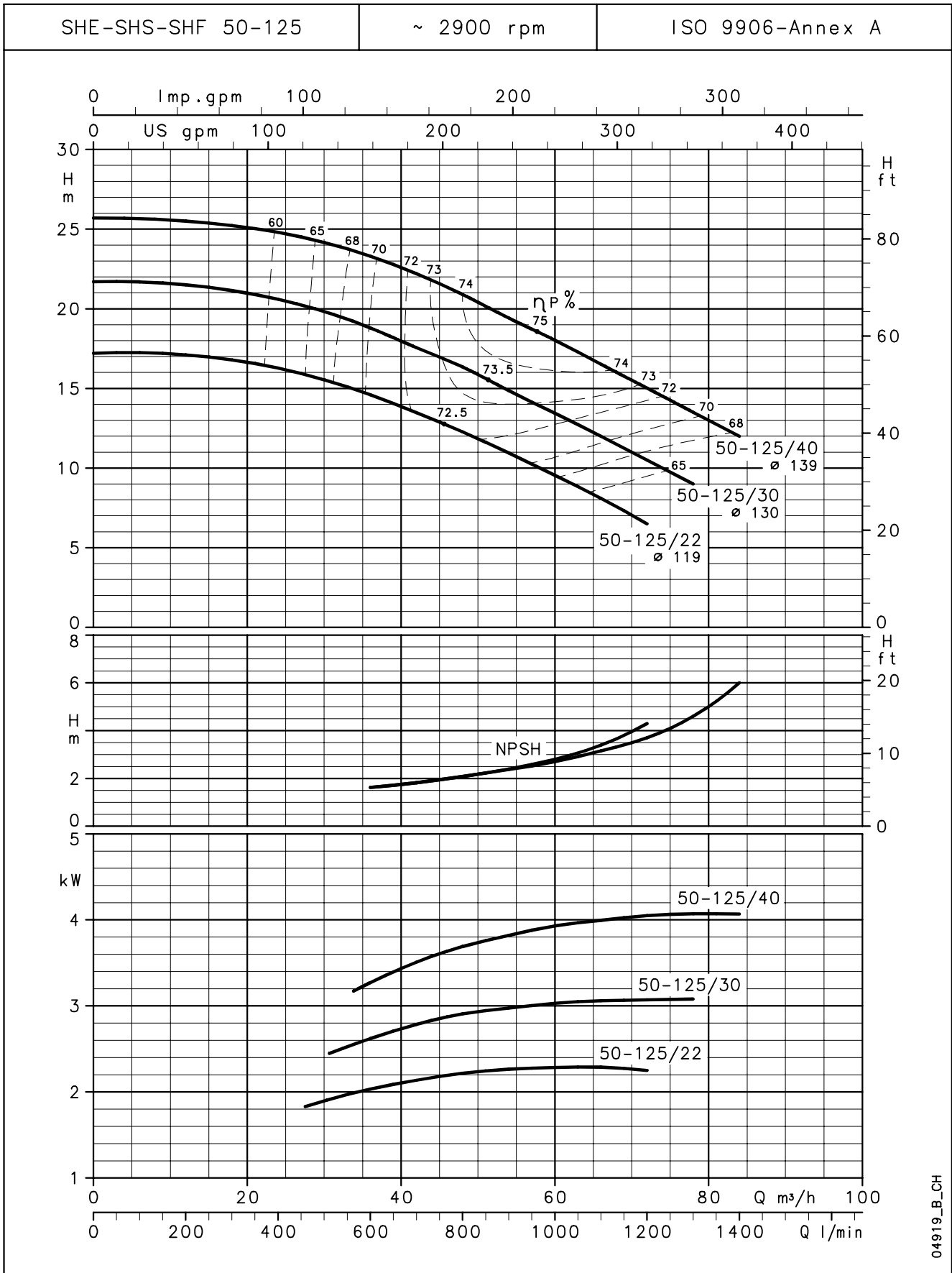




# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04919\_B\_CH

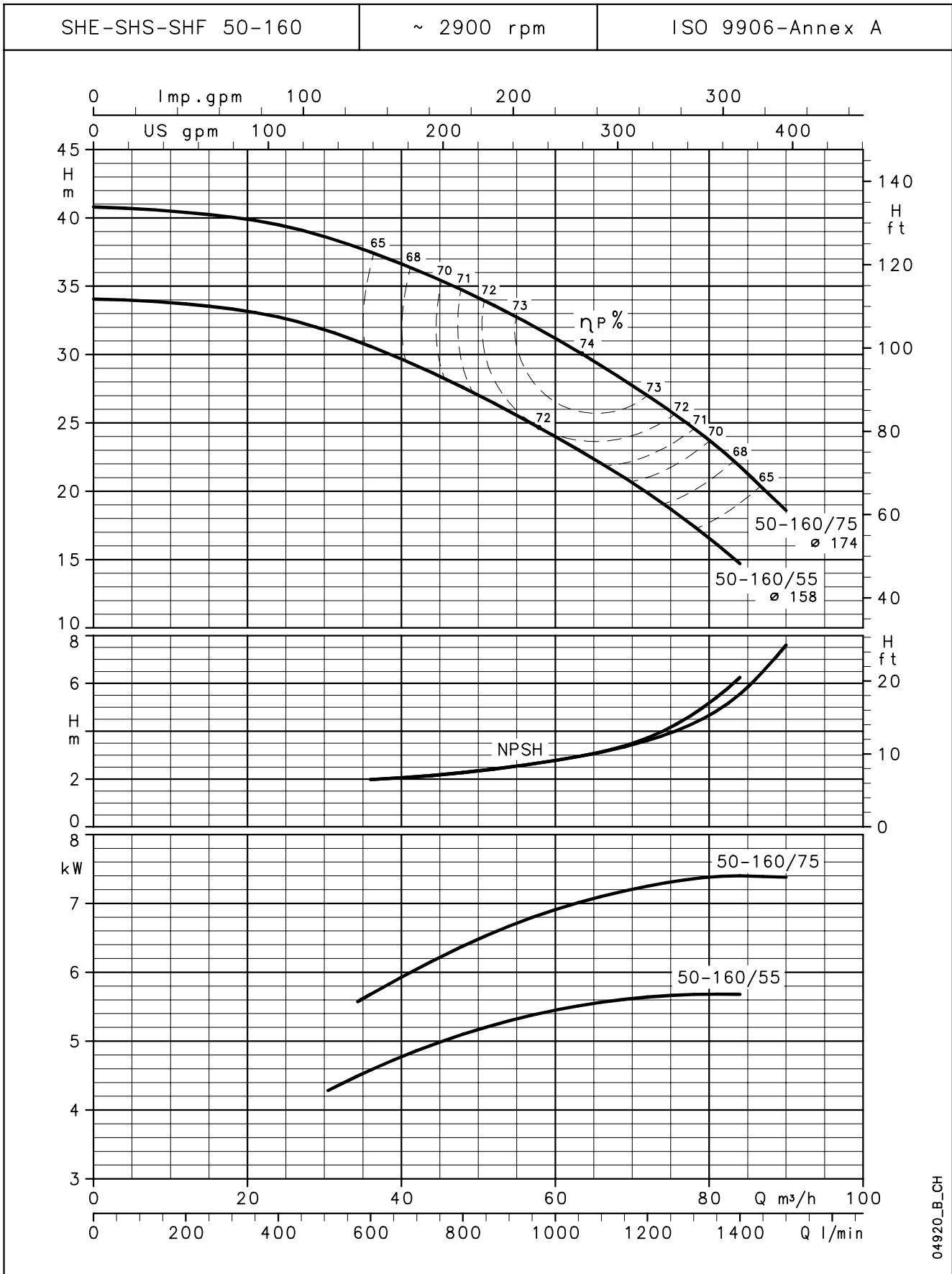
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04920\_B\_CH

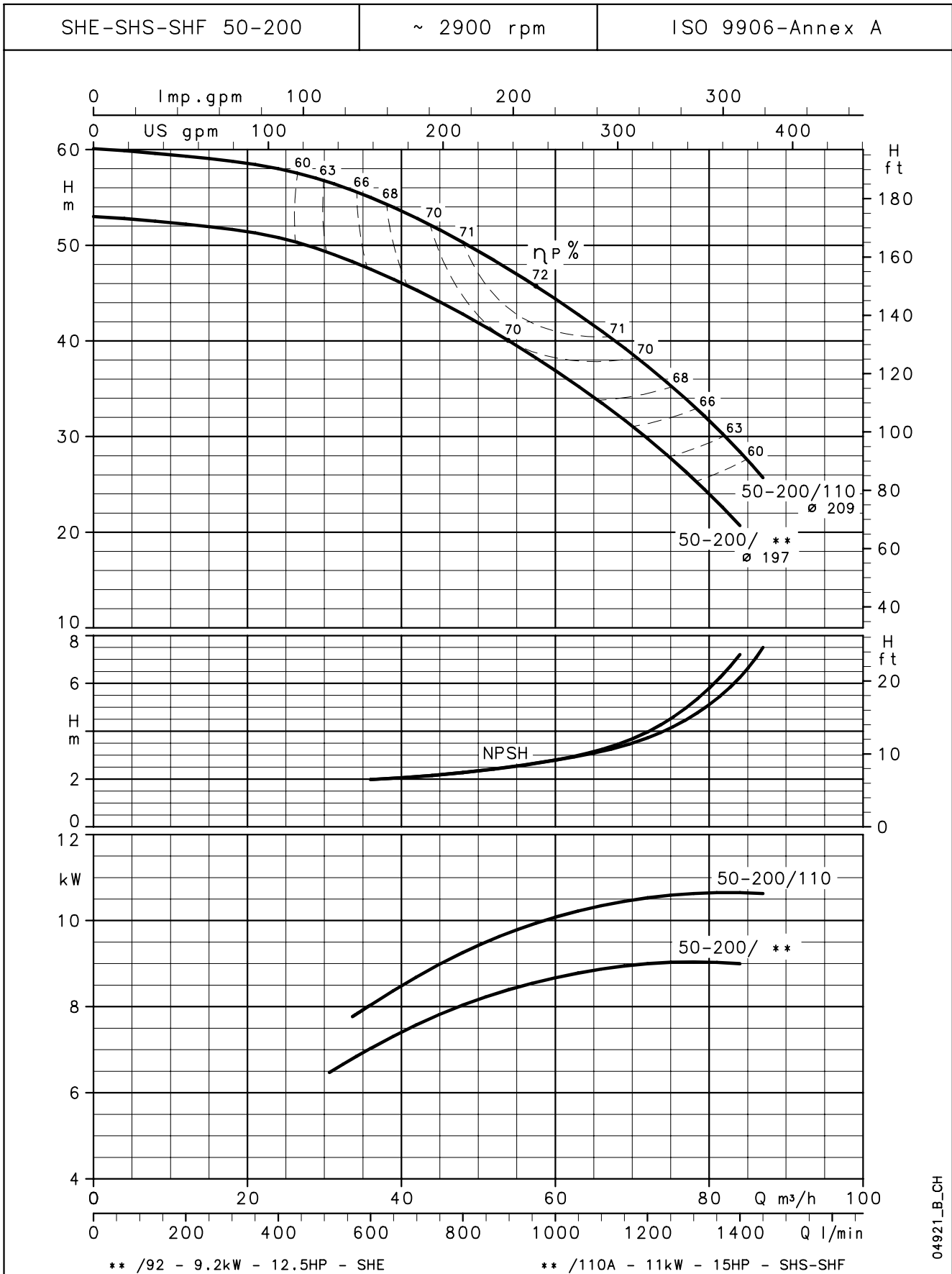
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04921\_B\_CH

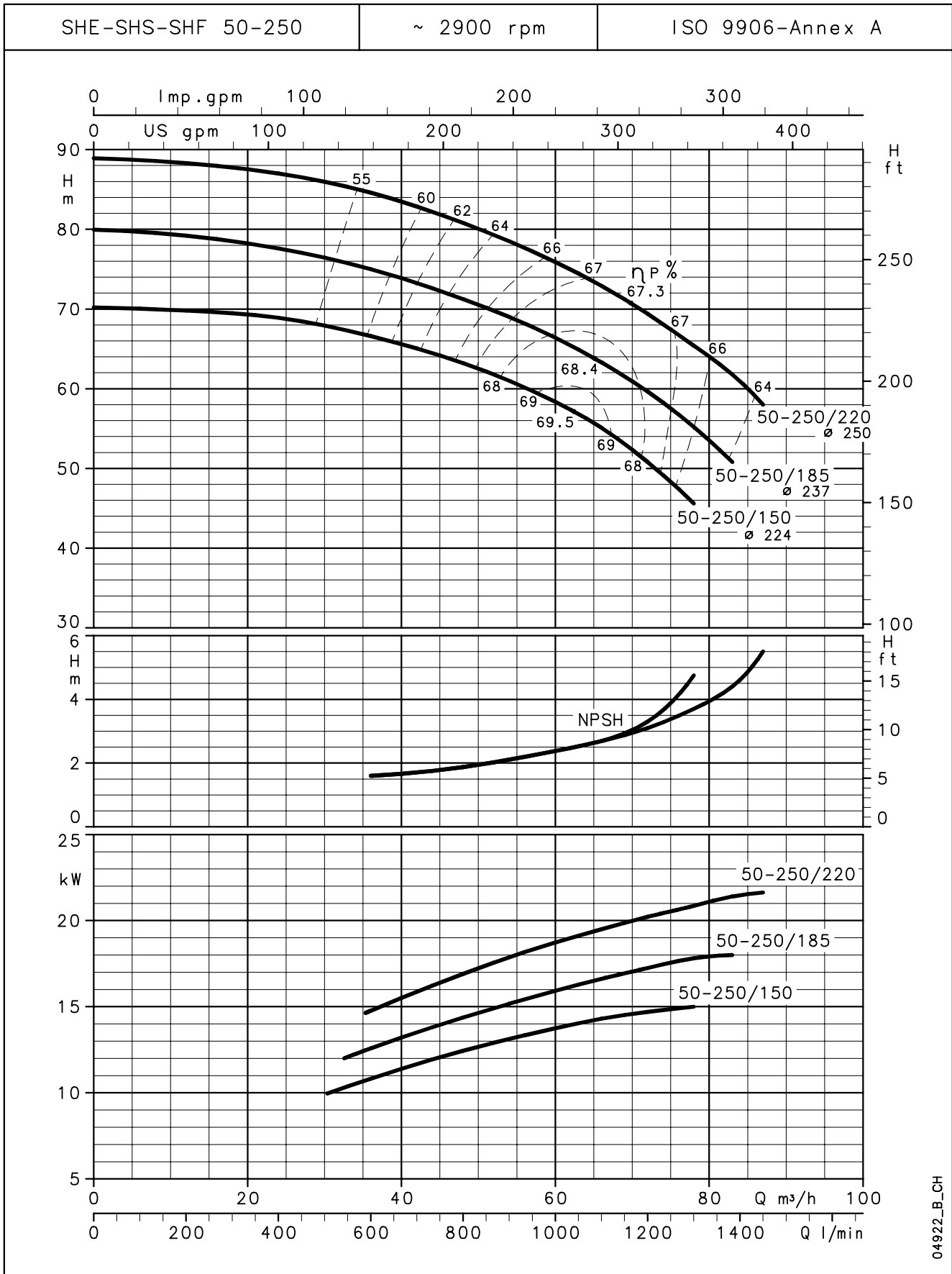
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
 These performances are valid for liquids with density ρ = 1,0 Kg/dm<sup>3</sup> and kinematic viscosity ν = 1 mm<sup>2</sup>/sec.



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04922\_B\_CH

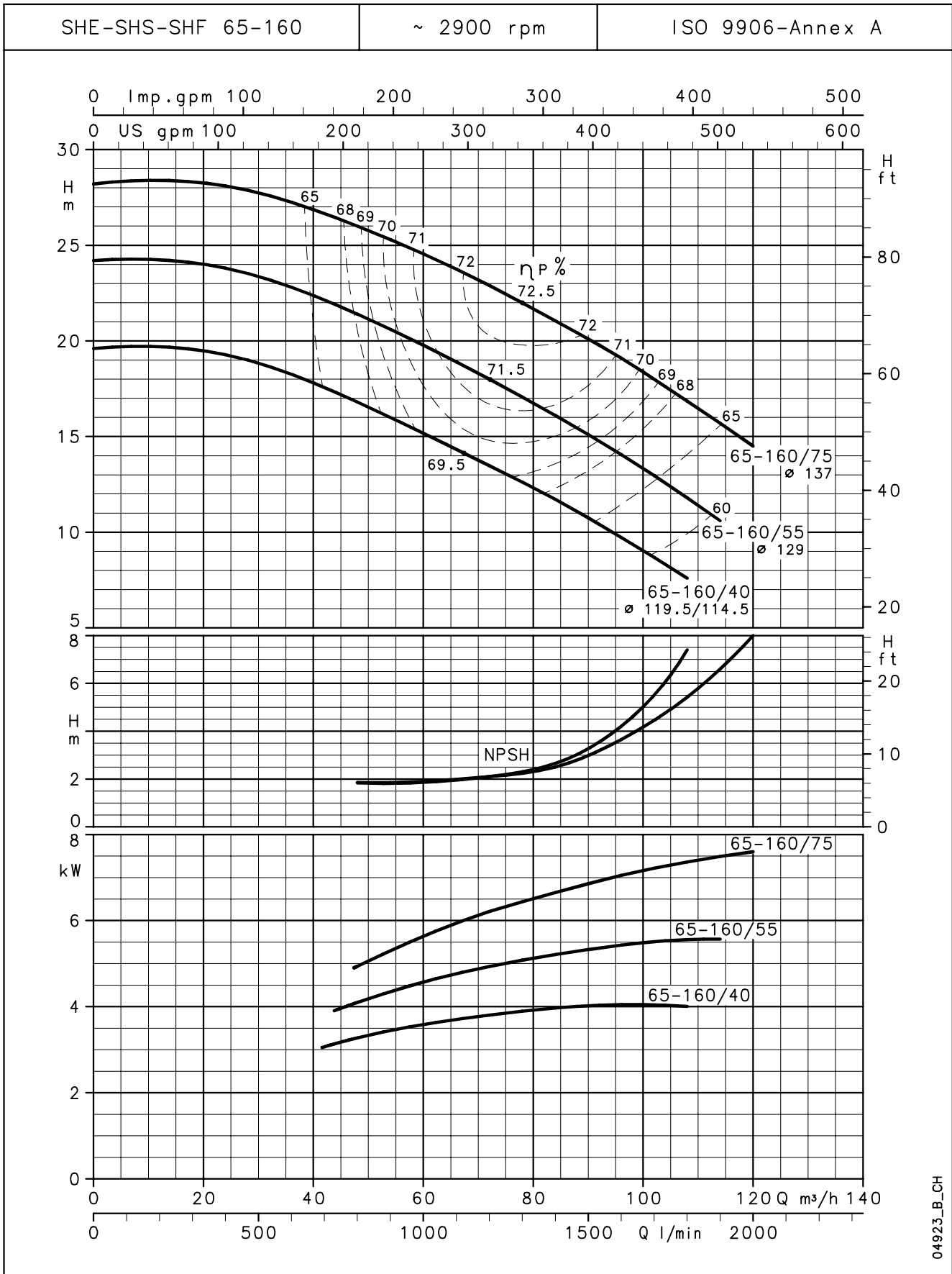
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04923\_B\_CH

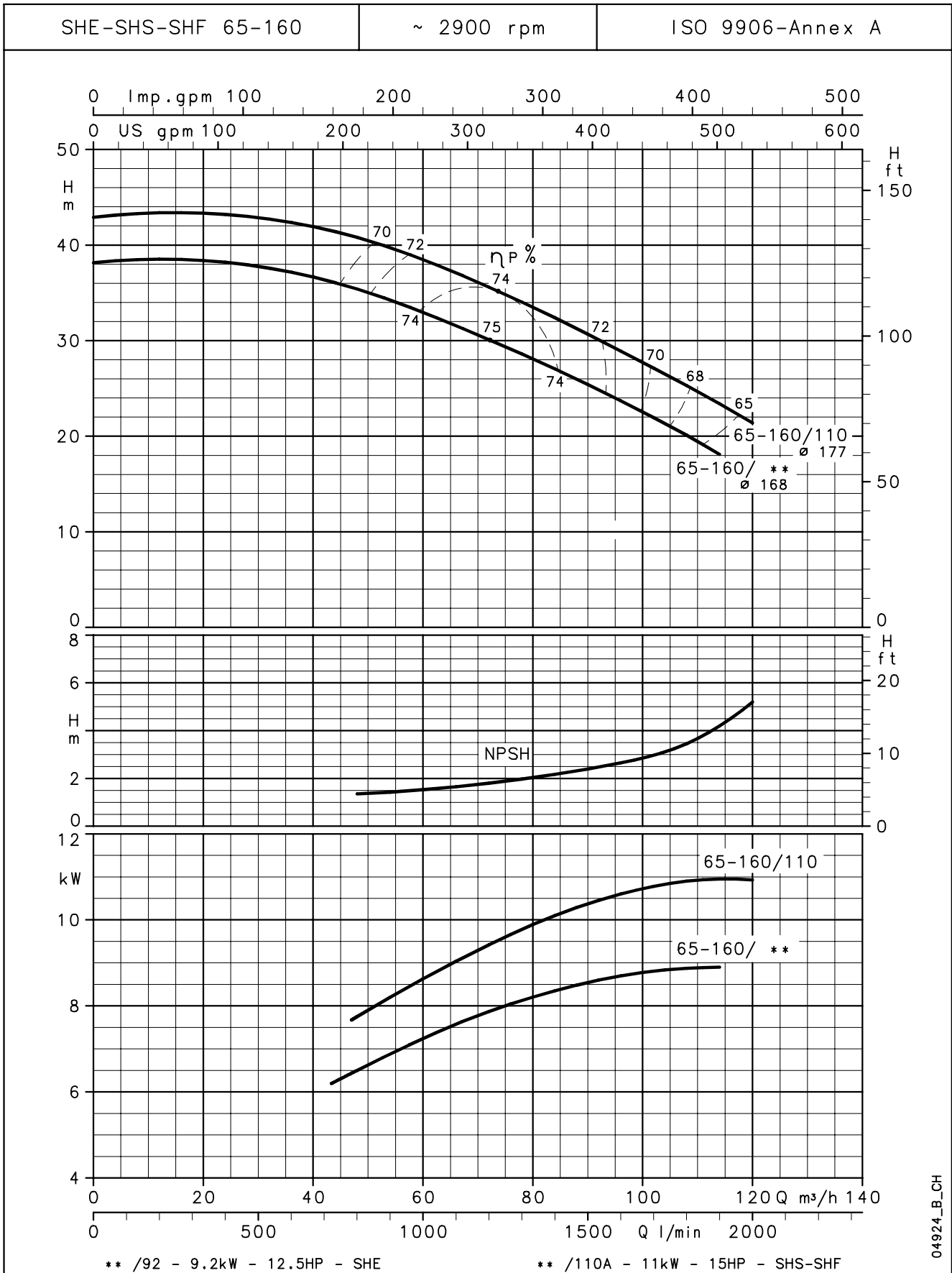
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04924\_B\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
 These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

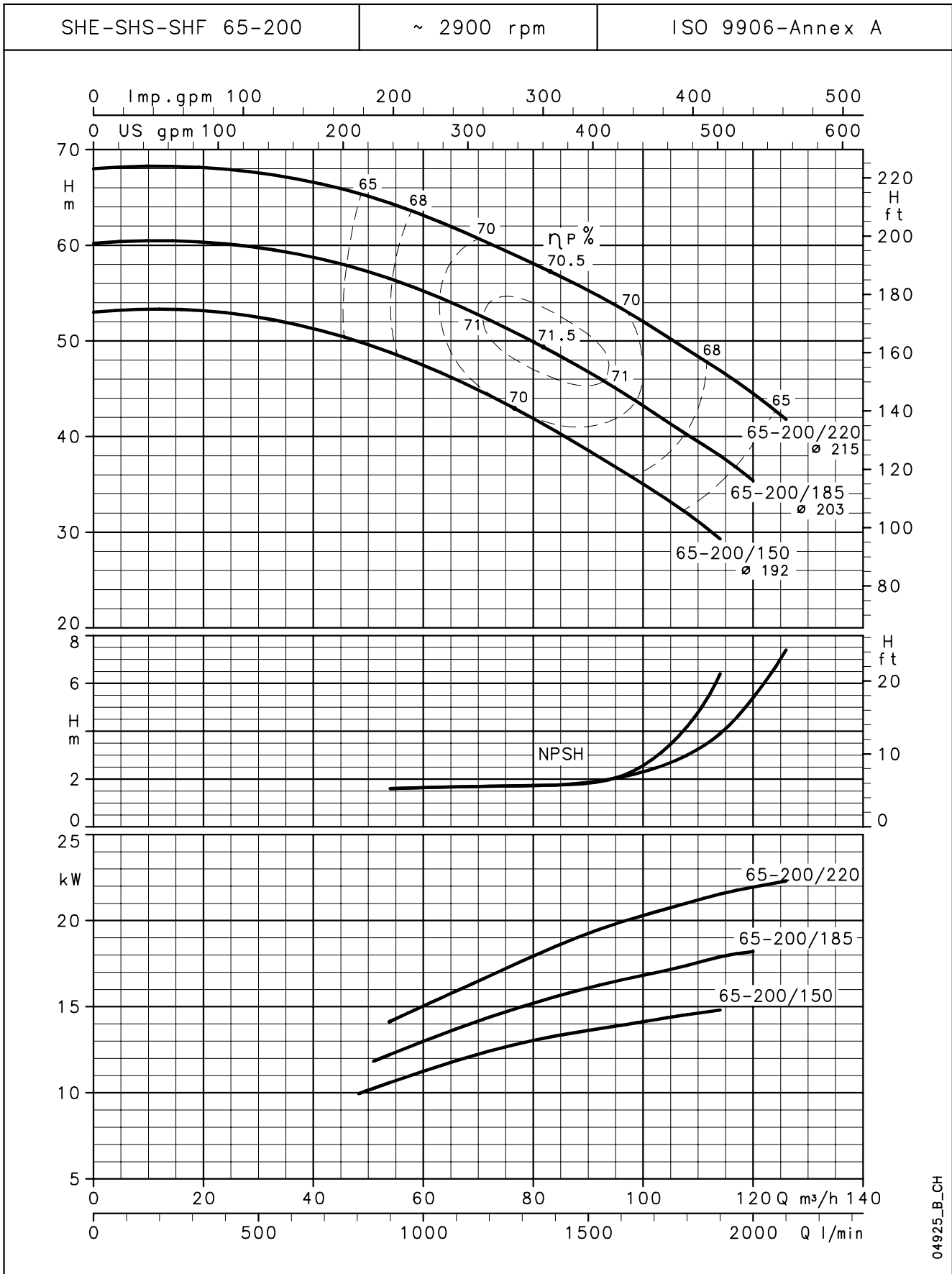


# ITT

# Lowara

## SHE-SHS-SHF SERIES

### OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04925\_B\_CH

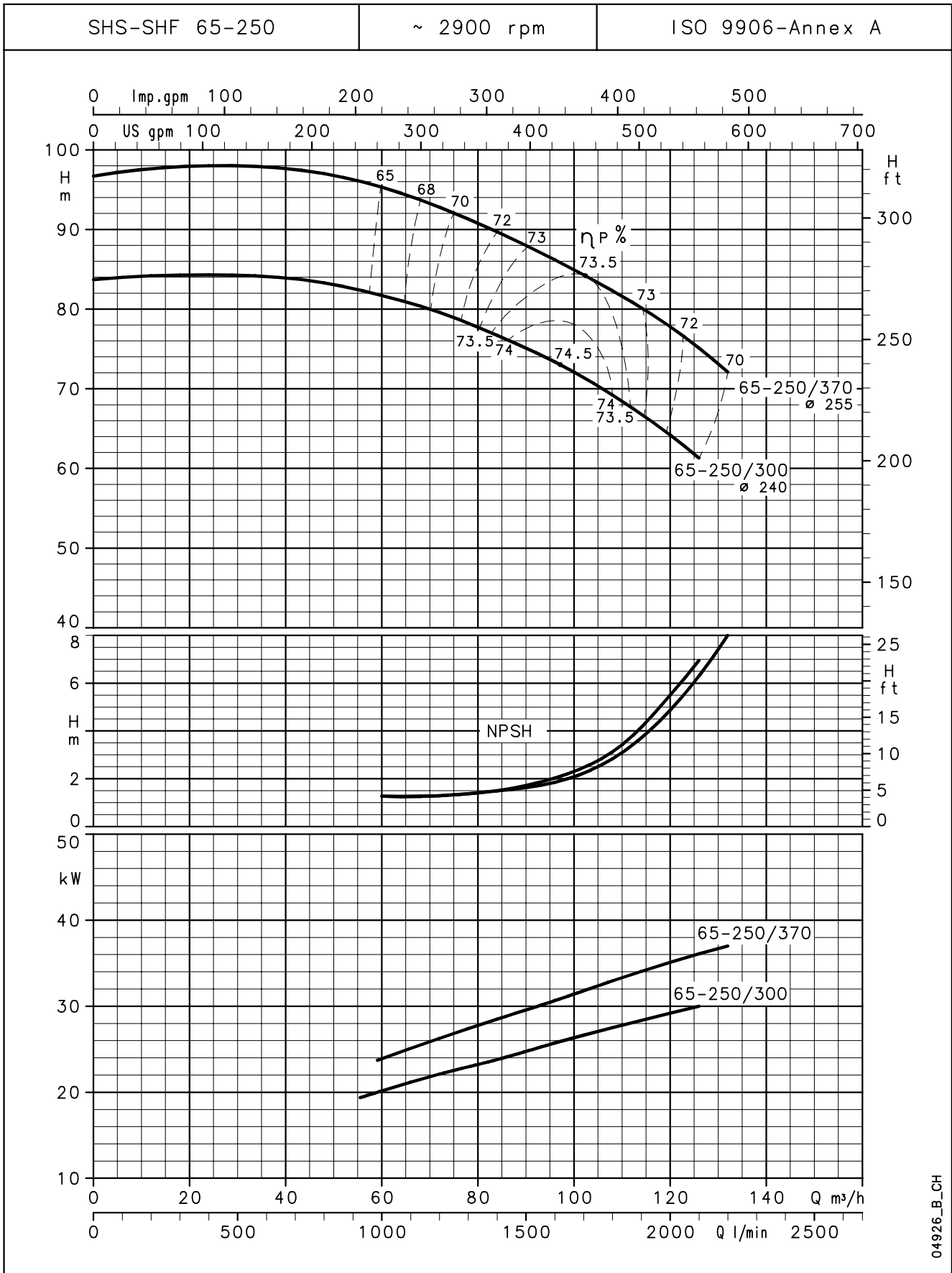
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m. These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04926\_B\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

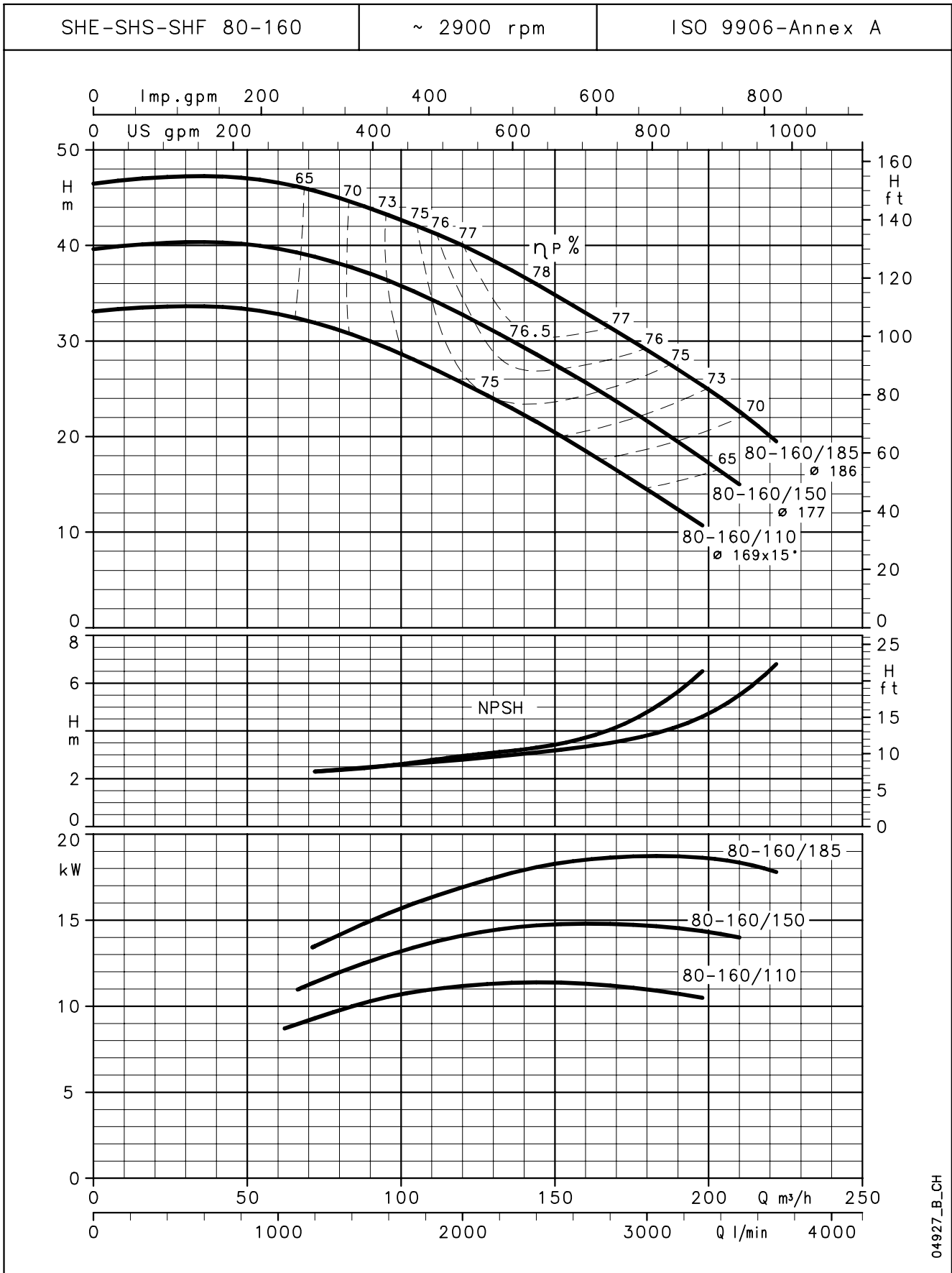




# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04927\_B\_CH

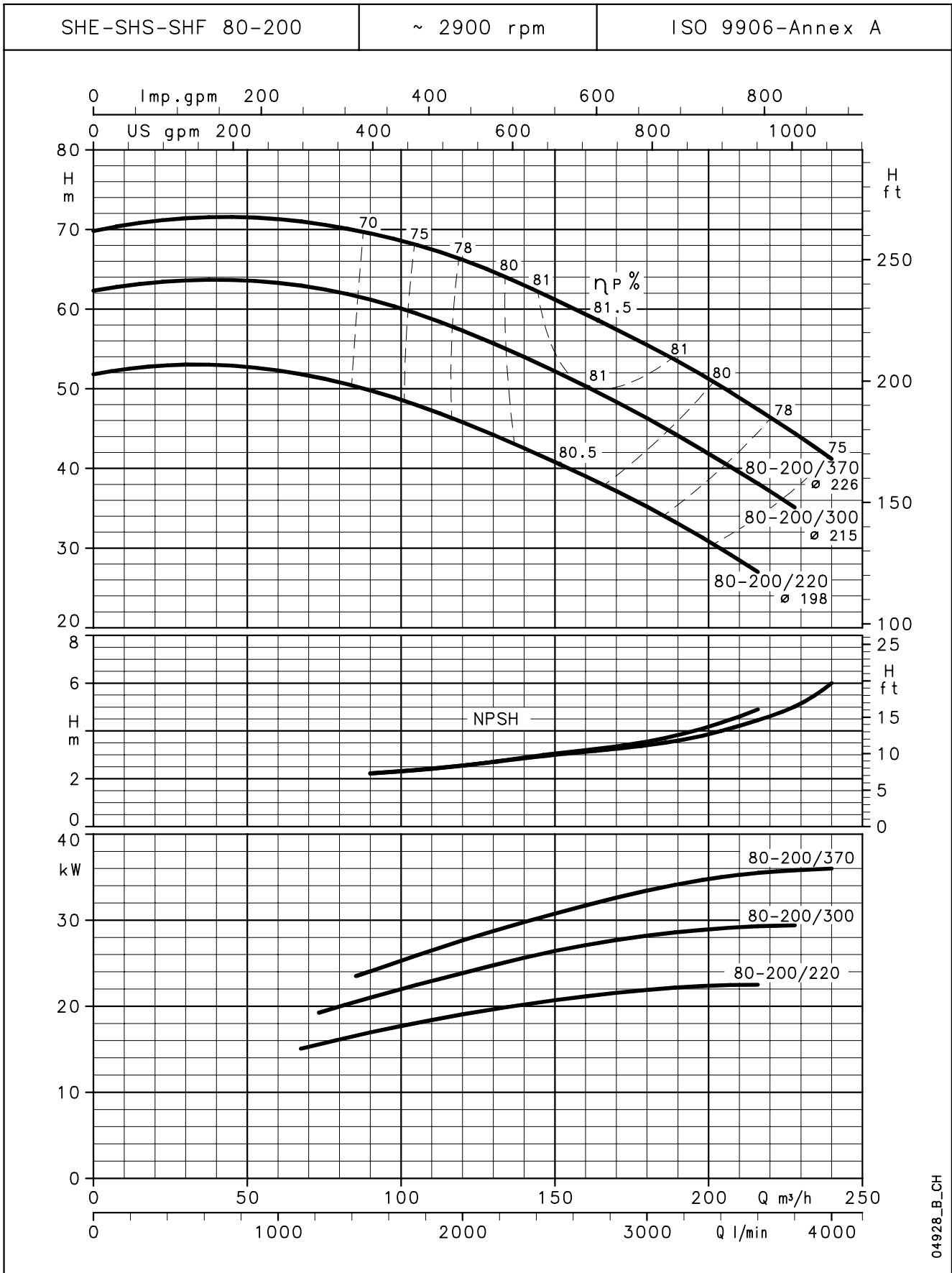
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE-SHS-SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04928\_B\_CH

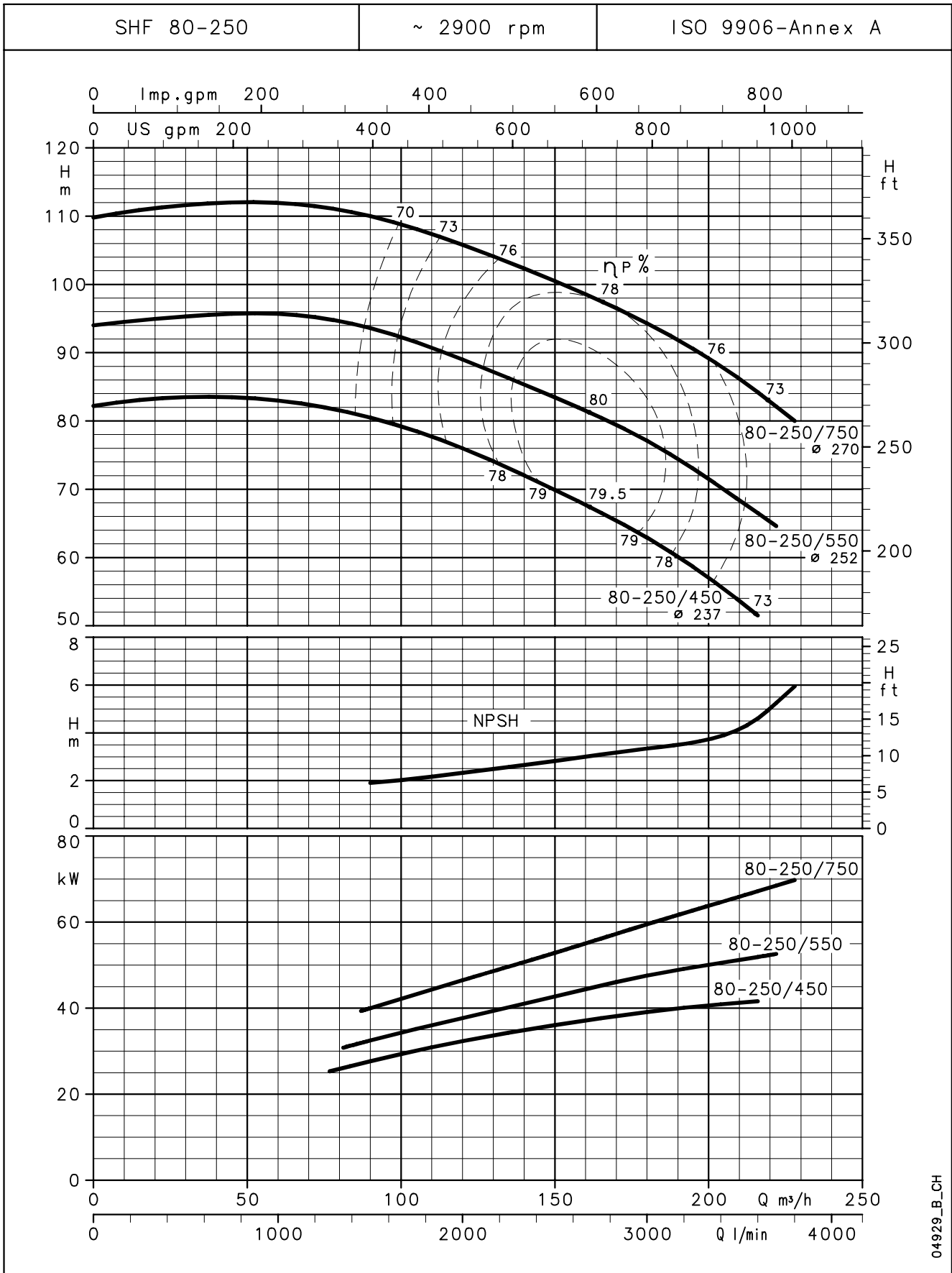
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHF SERIES OPERATING CHARACTERISTICS AT 50 Hz, 2 POLES



04929\_B\_CH

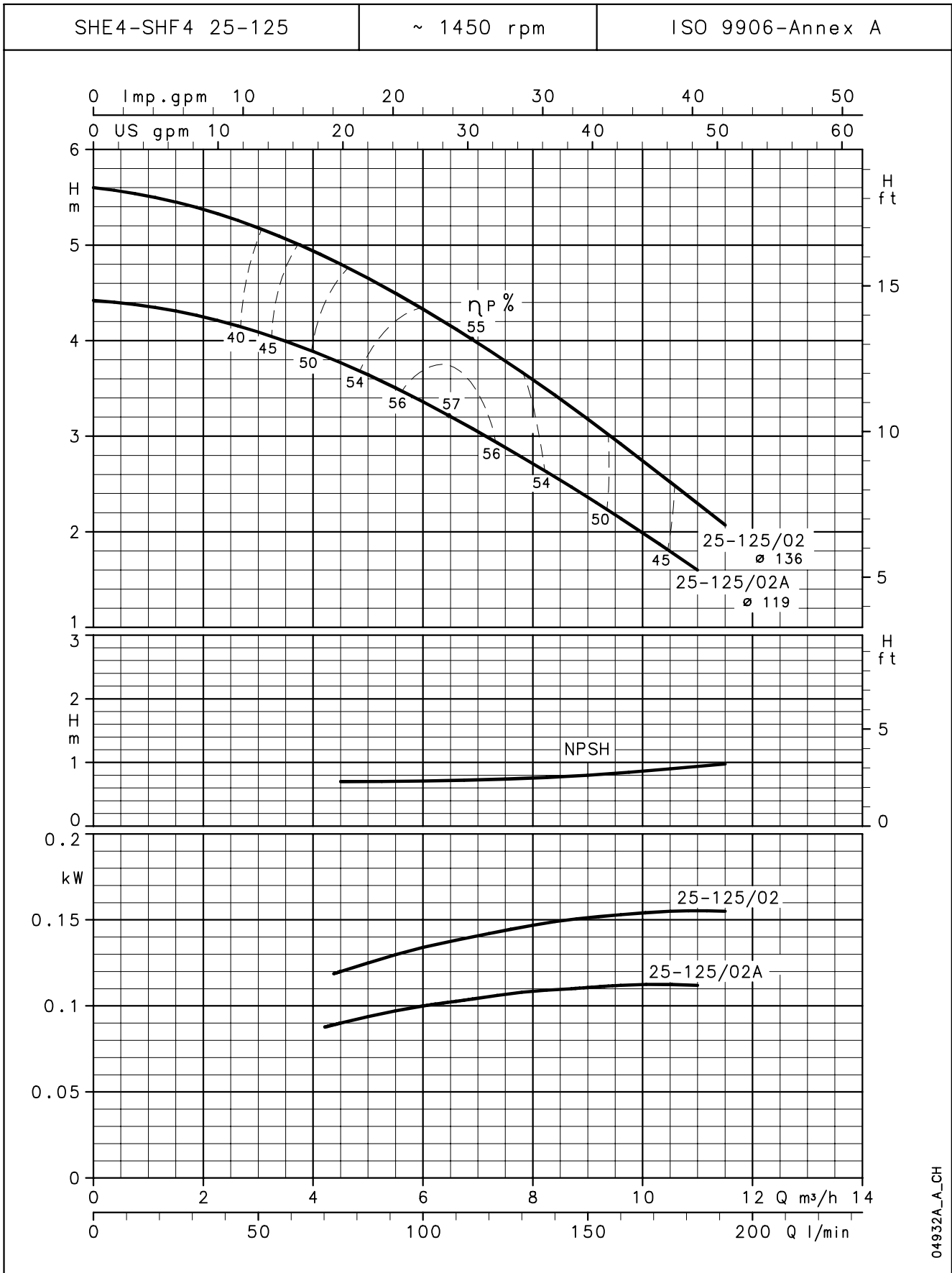
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04932A\_A\_CH

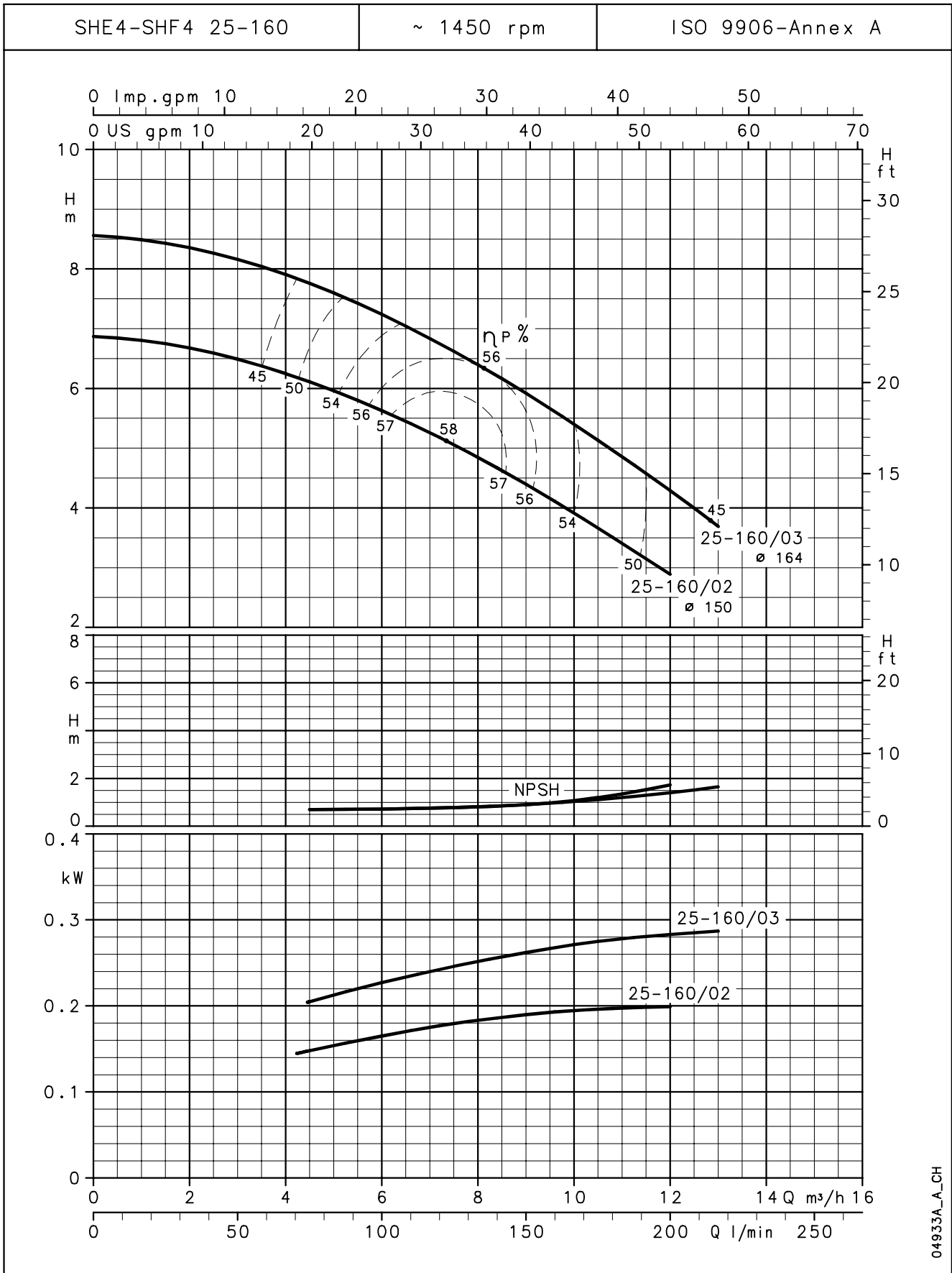
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04933A\_A\_CH

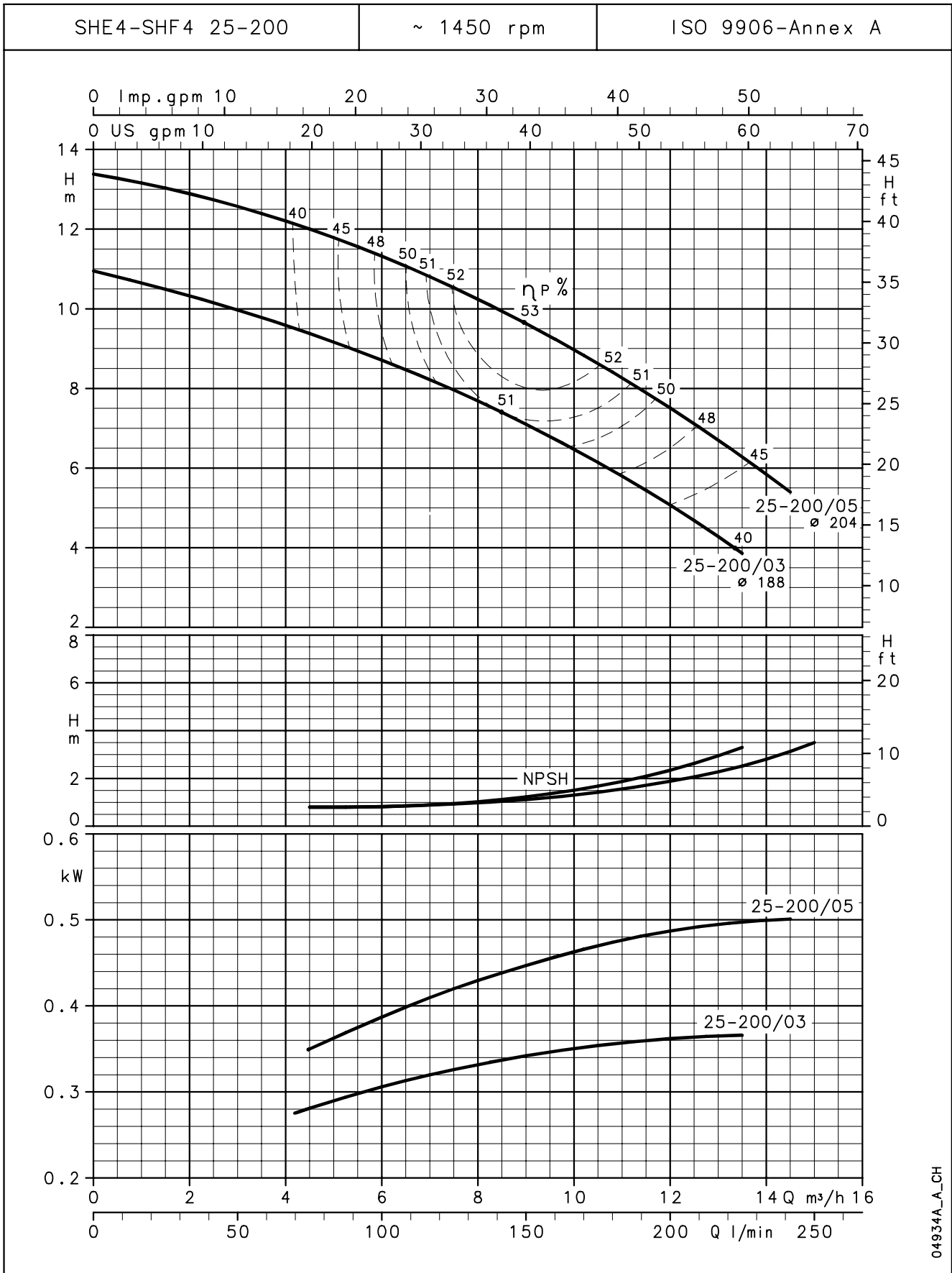
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04934A\_A\_CH

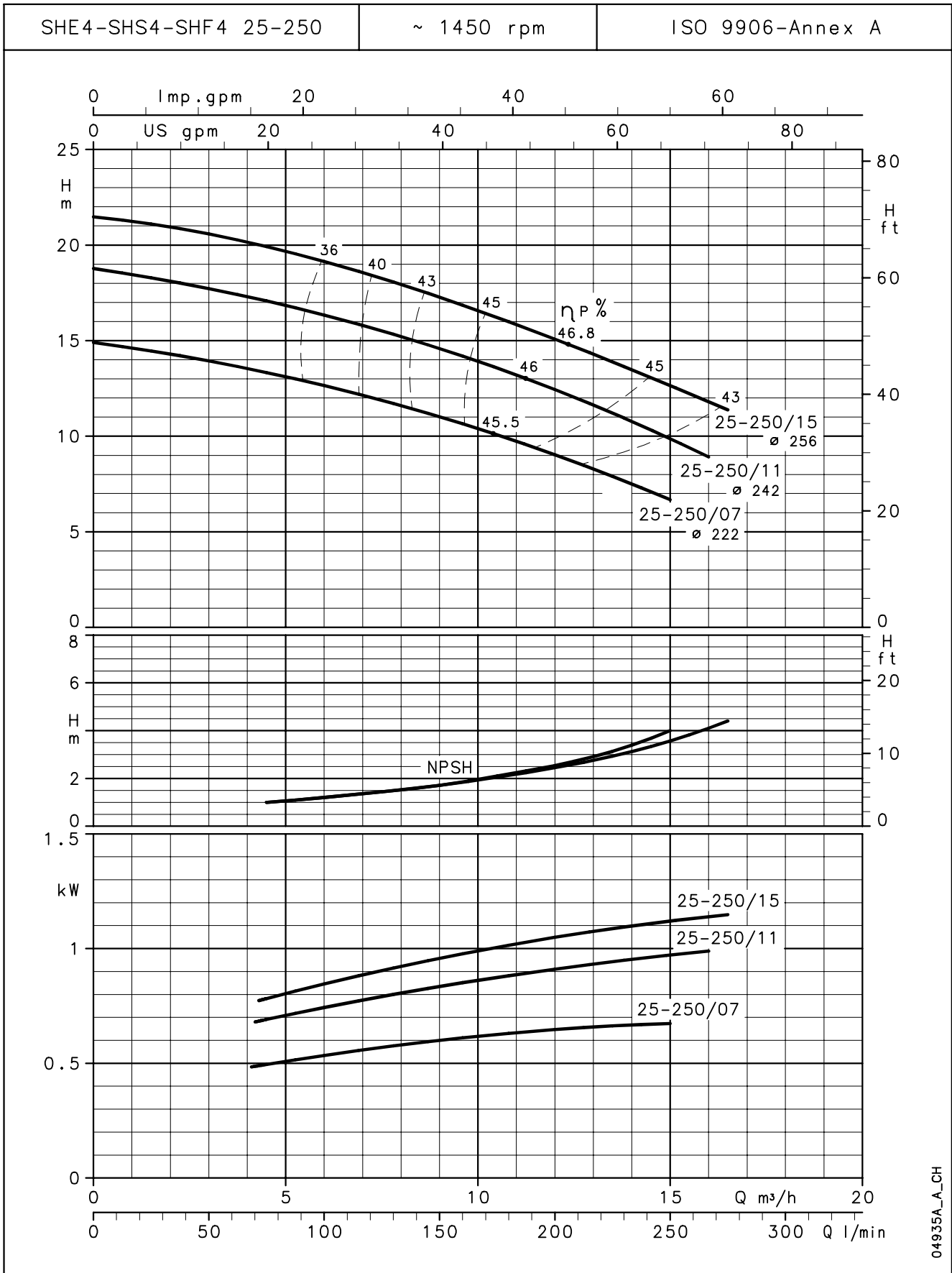
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
 These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04935A\_A\_CH

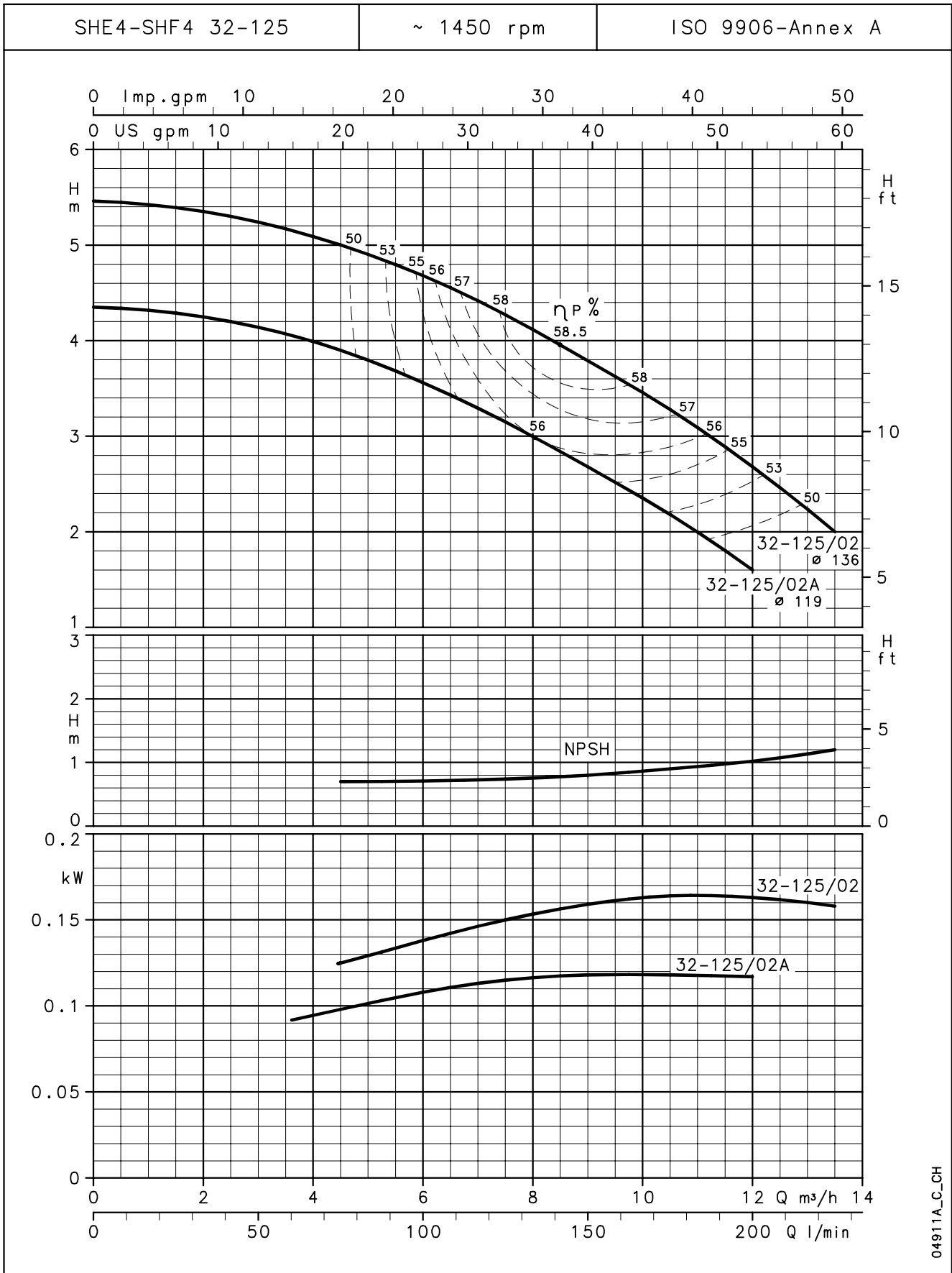
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density ρ = 1,0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04911A\_C\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density ρ = 1,0 Kg/dm³ and kinematic viscosity ν = 1 mm²/sec.

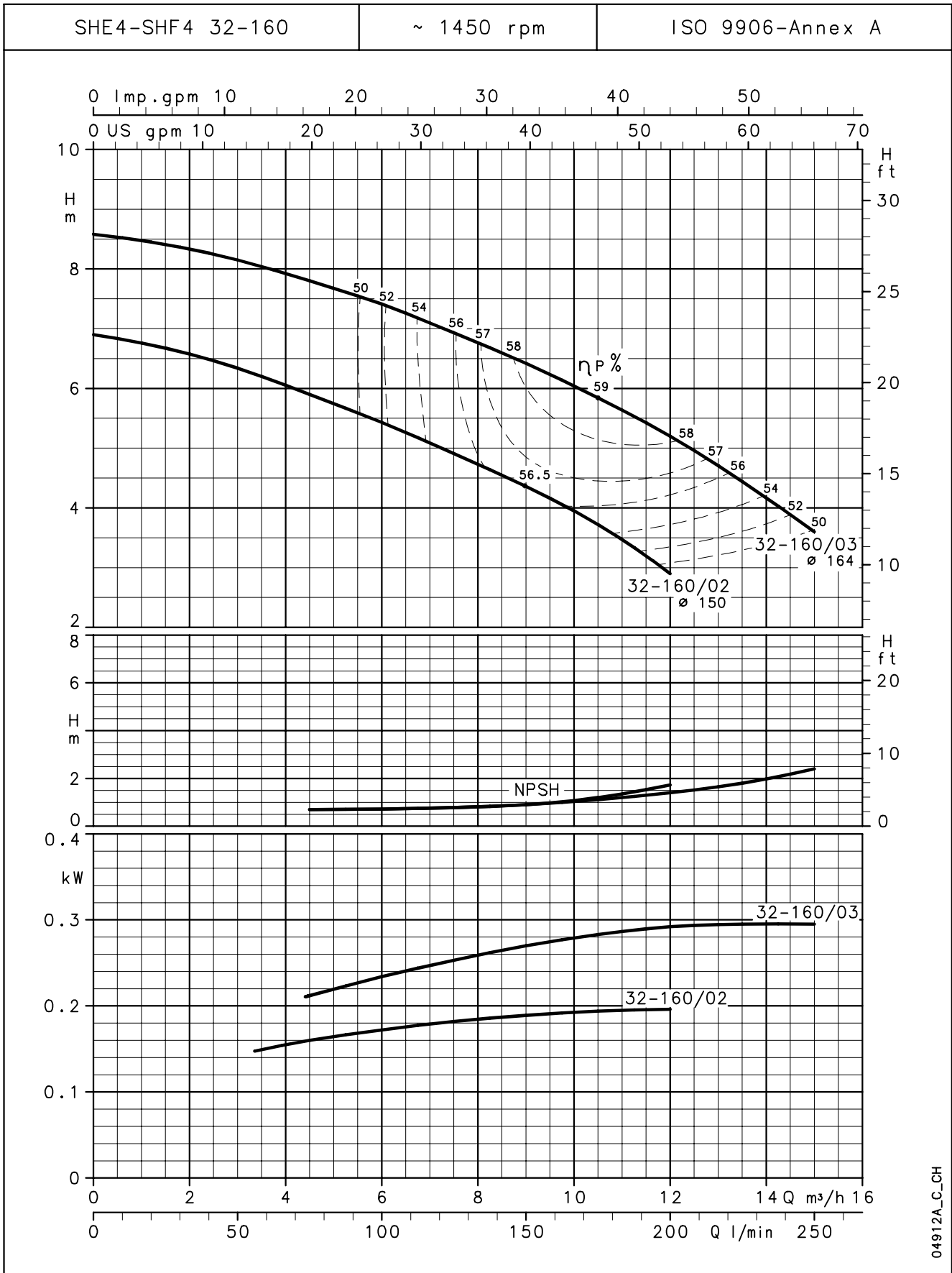




# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04912A\_C-CH

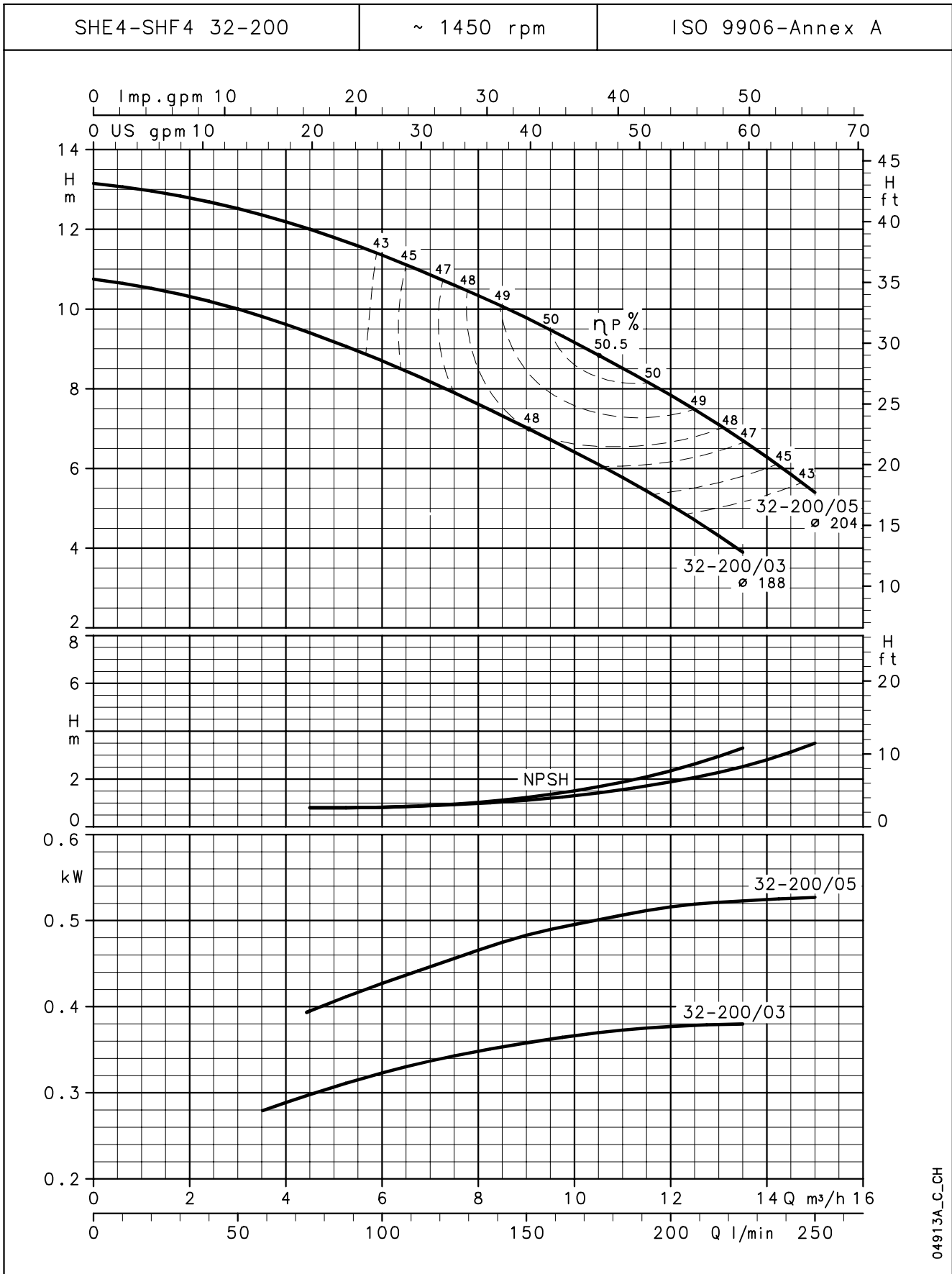
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04913A\_C\_CH

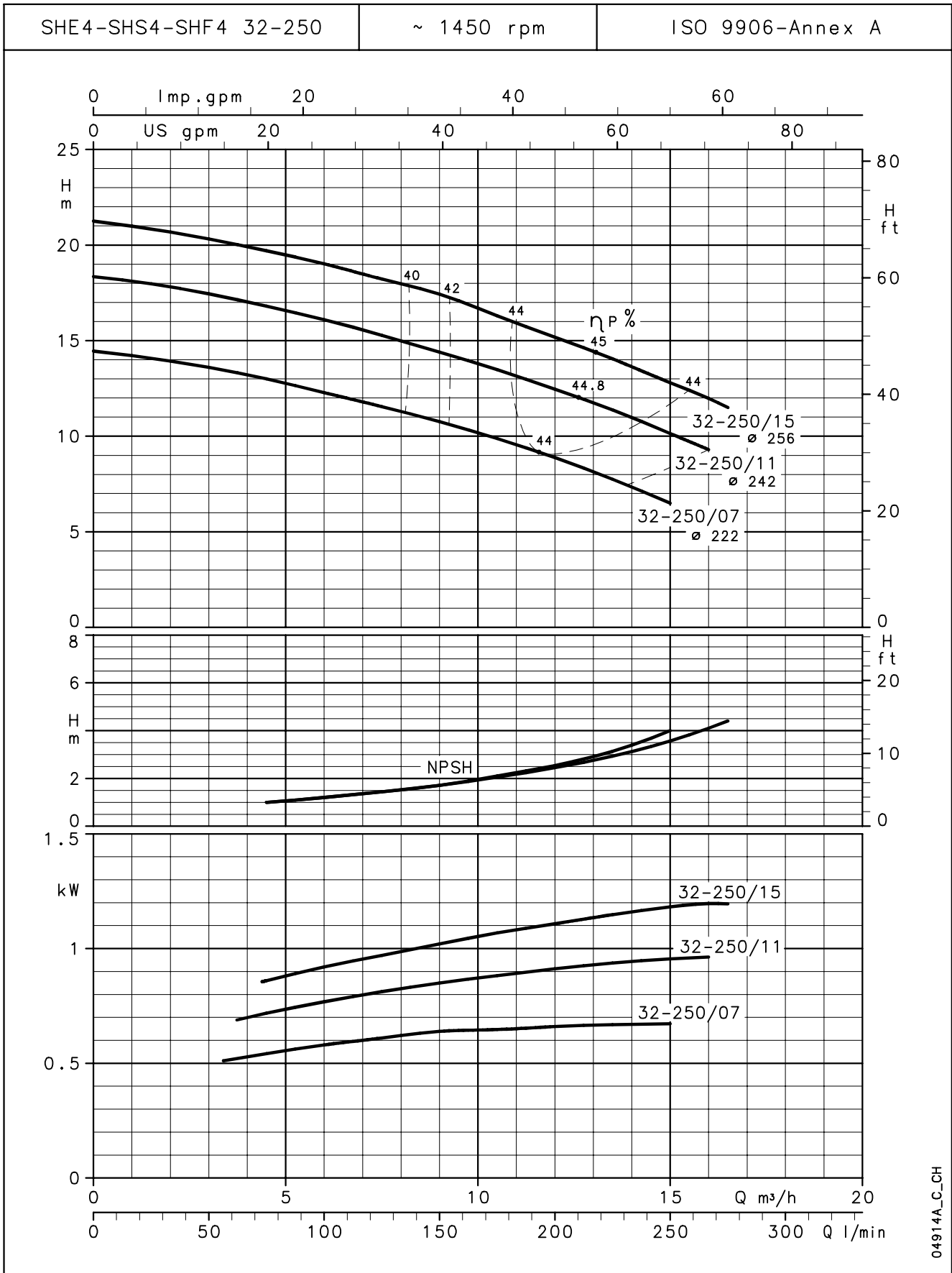
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04914A\_C-CH

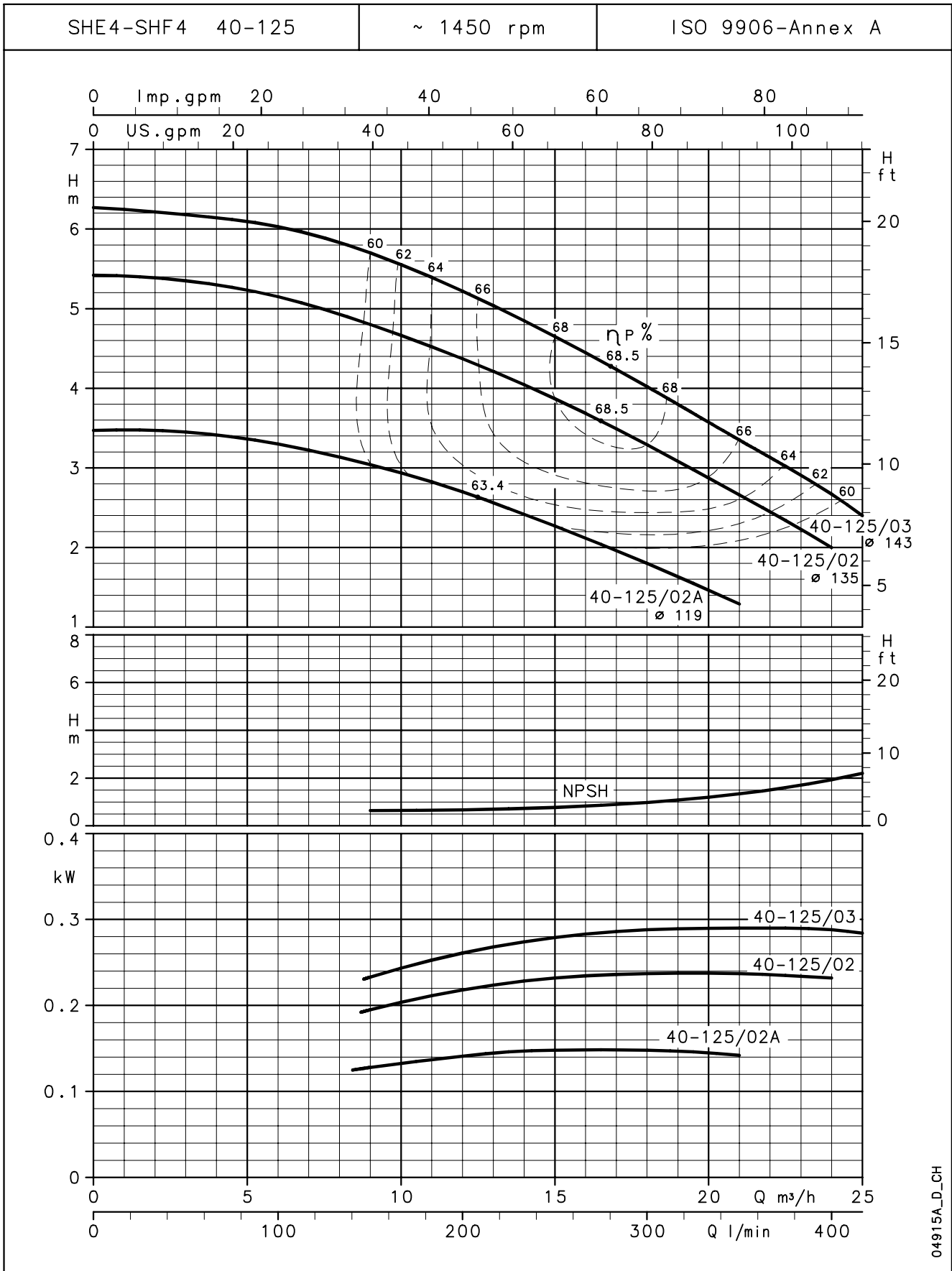
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04915A\_D\_CH

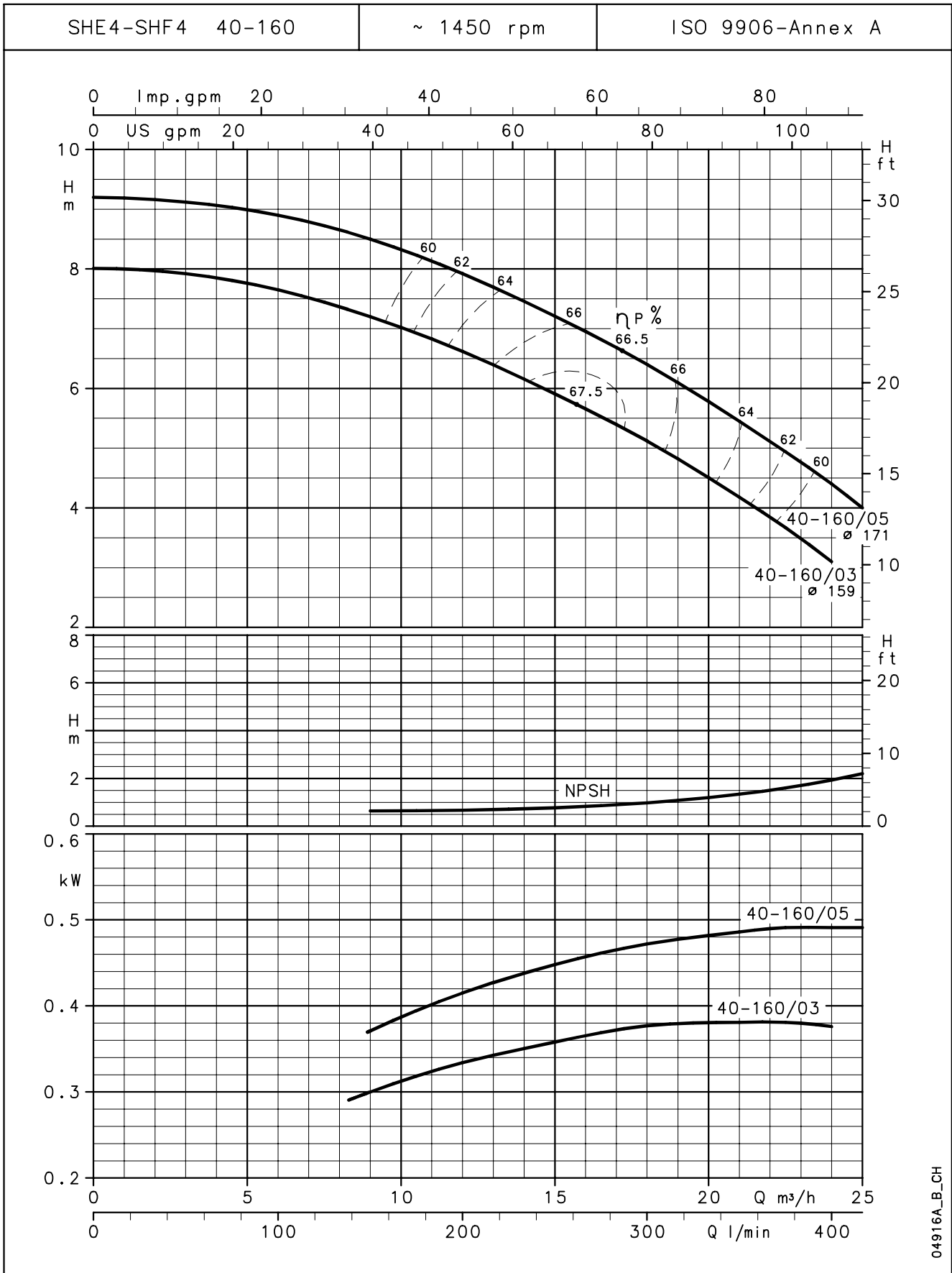
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04916A\_B\_CH

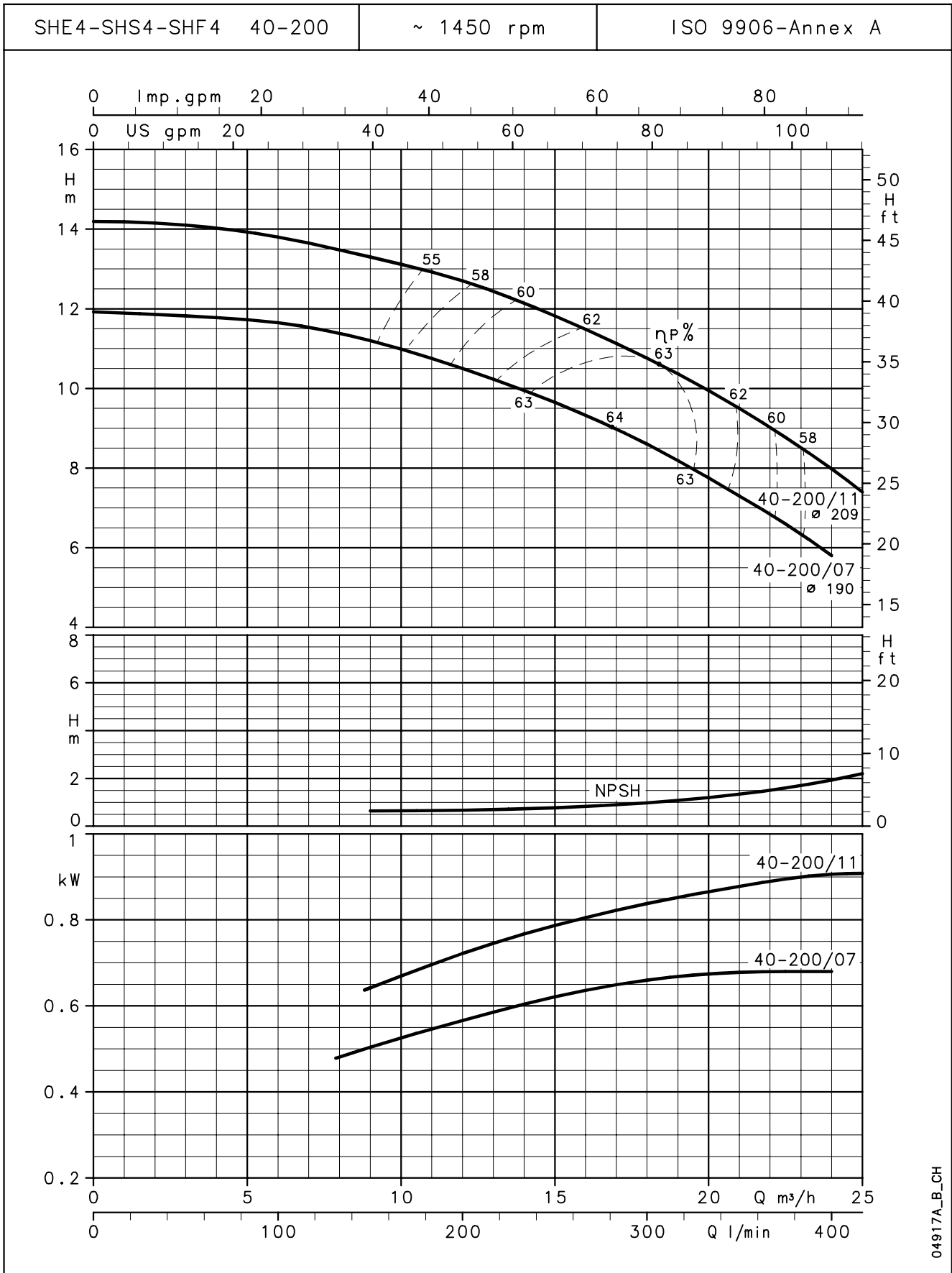
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04917A\_B\_CH

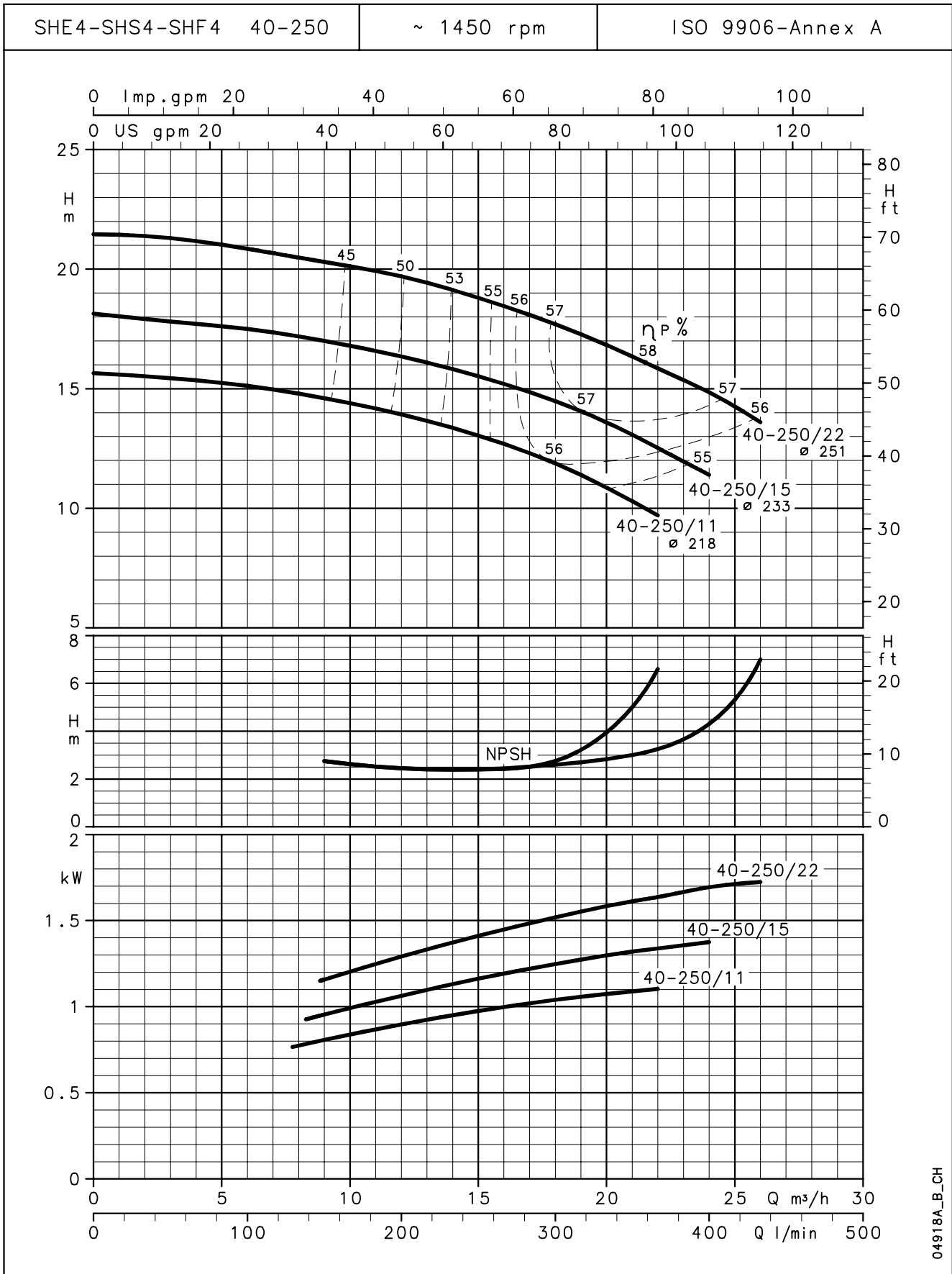
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04918A\_B\_CH

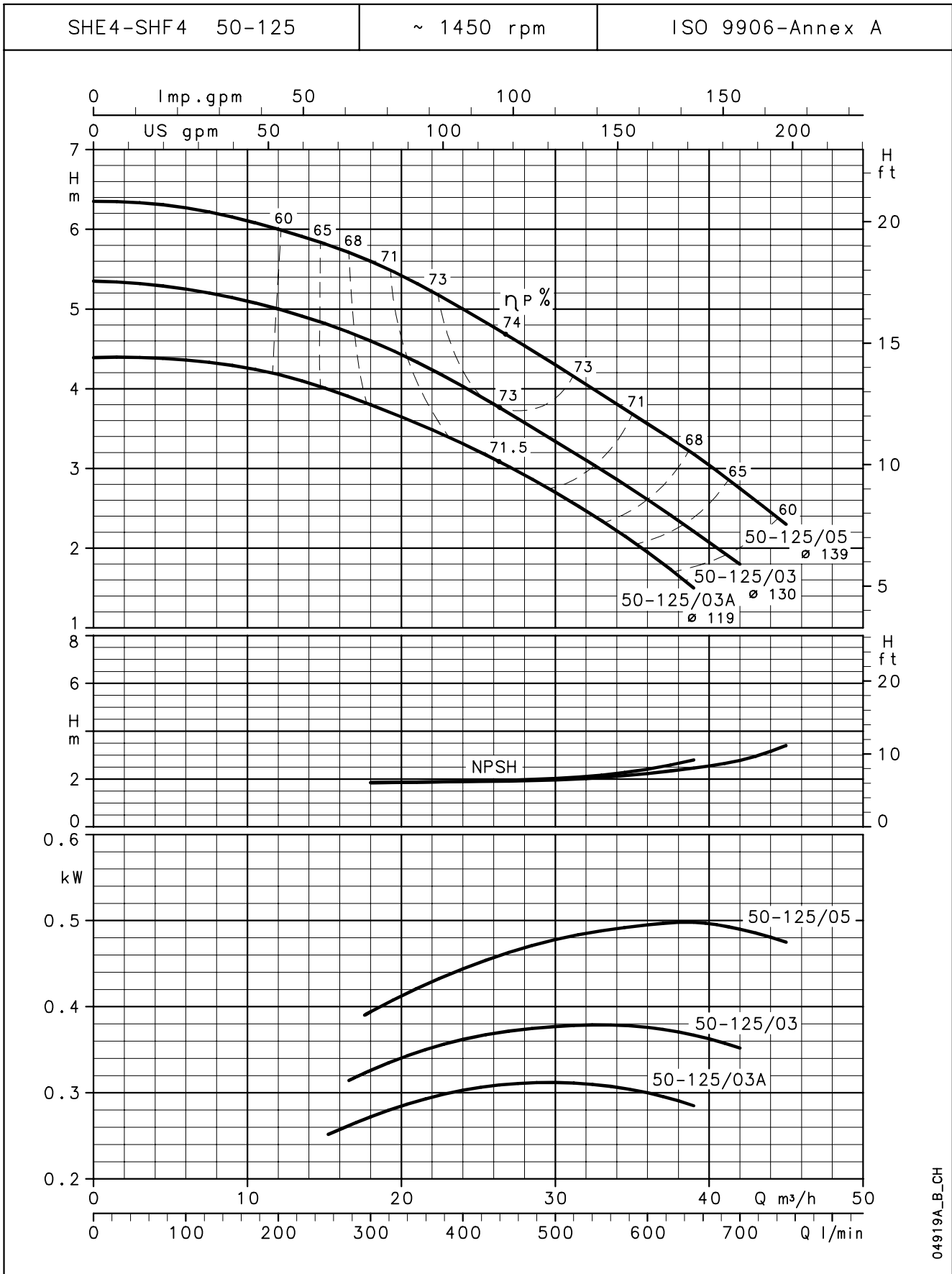
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density ρ = 1,0 Kg/dm<sup>3</sup> and kinematic viscosity ν = 1 mm<sup>2</sup>/sec.



# ITT

# Lowara

## SHE4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04919A\_B\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

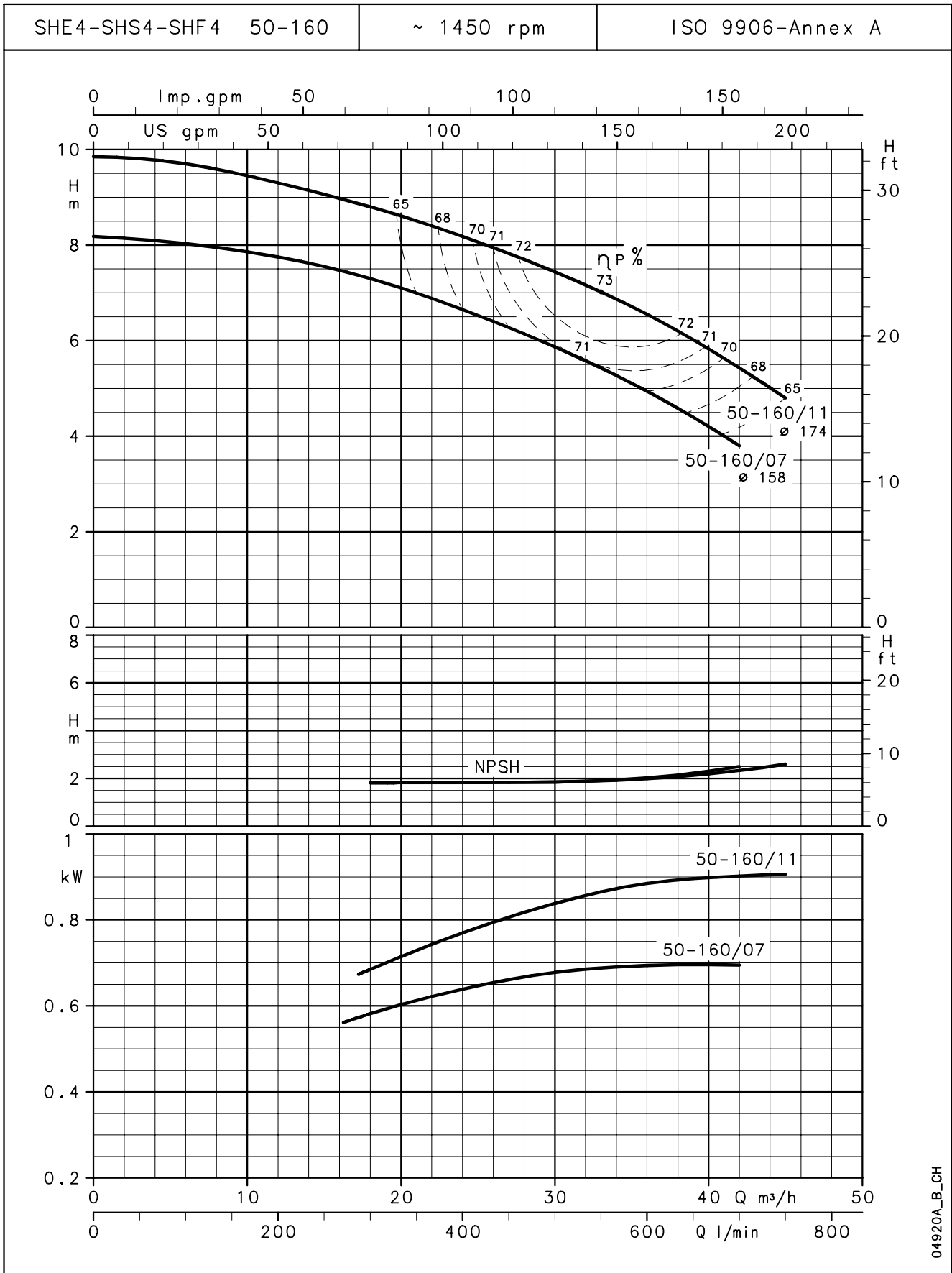




# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04920A\_B\_CH

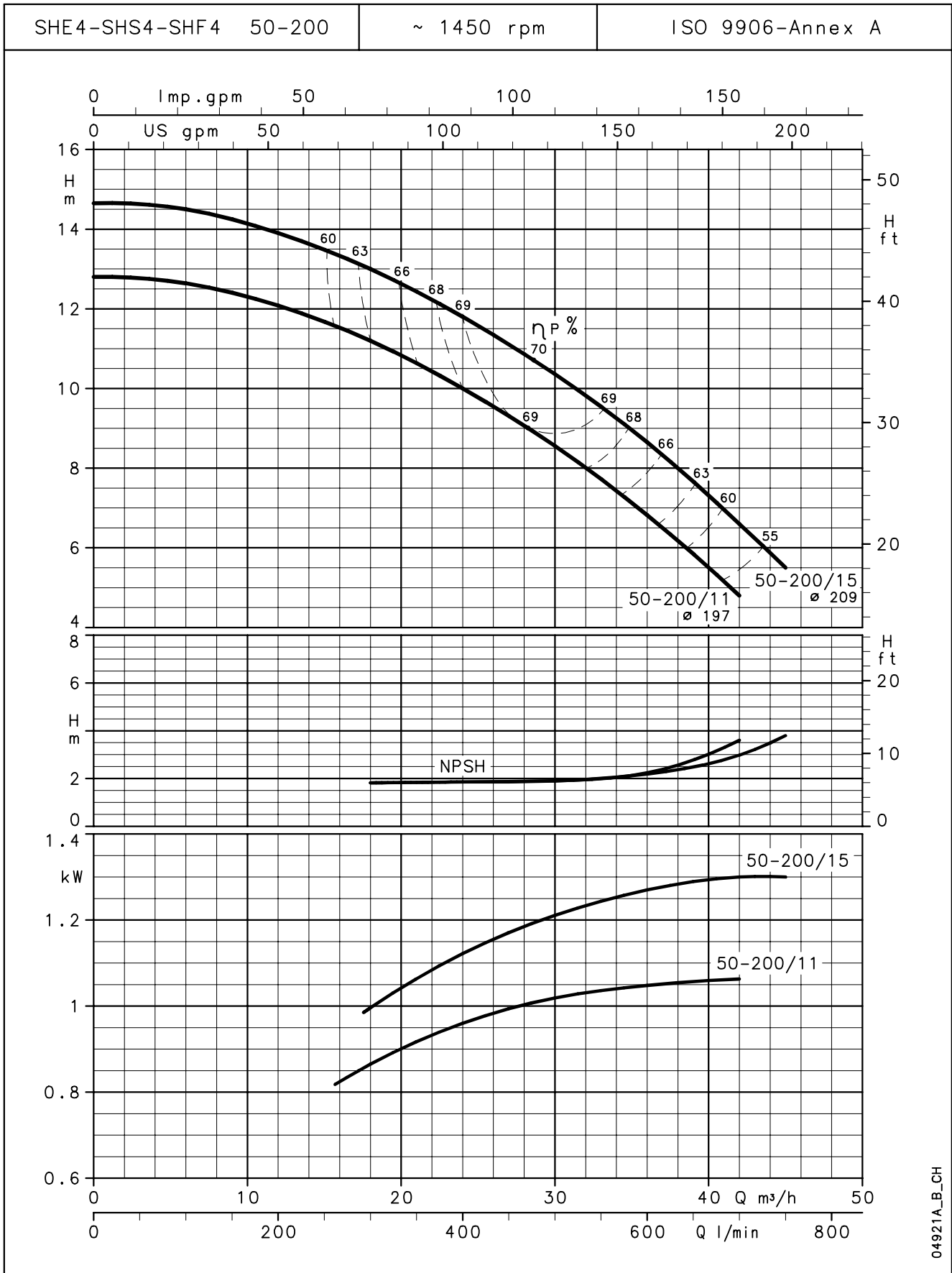
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04921A\_B\_CH

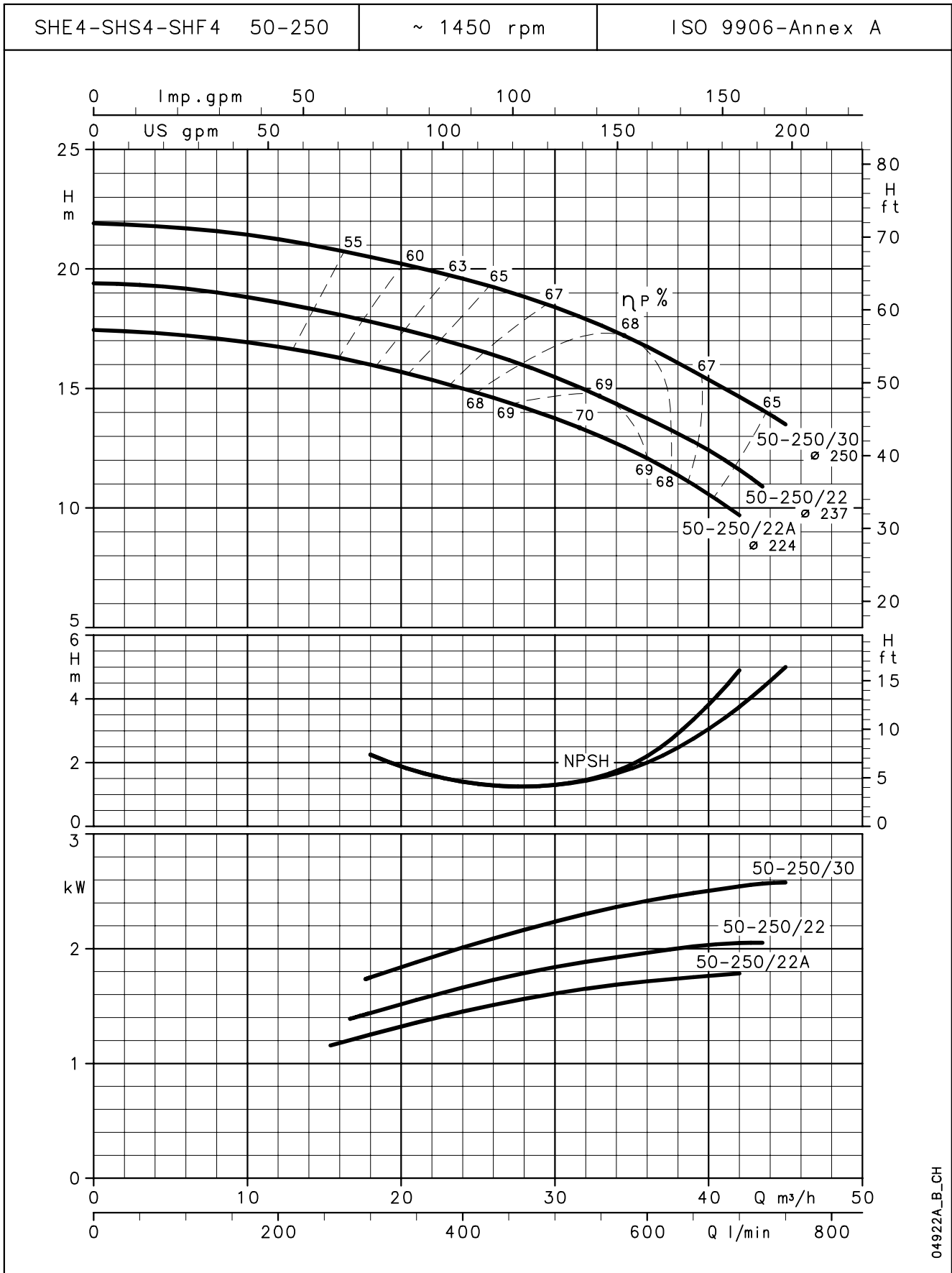
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04922A\_B\_CH

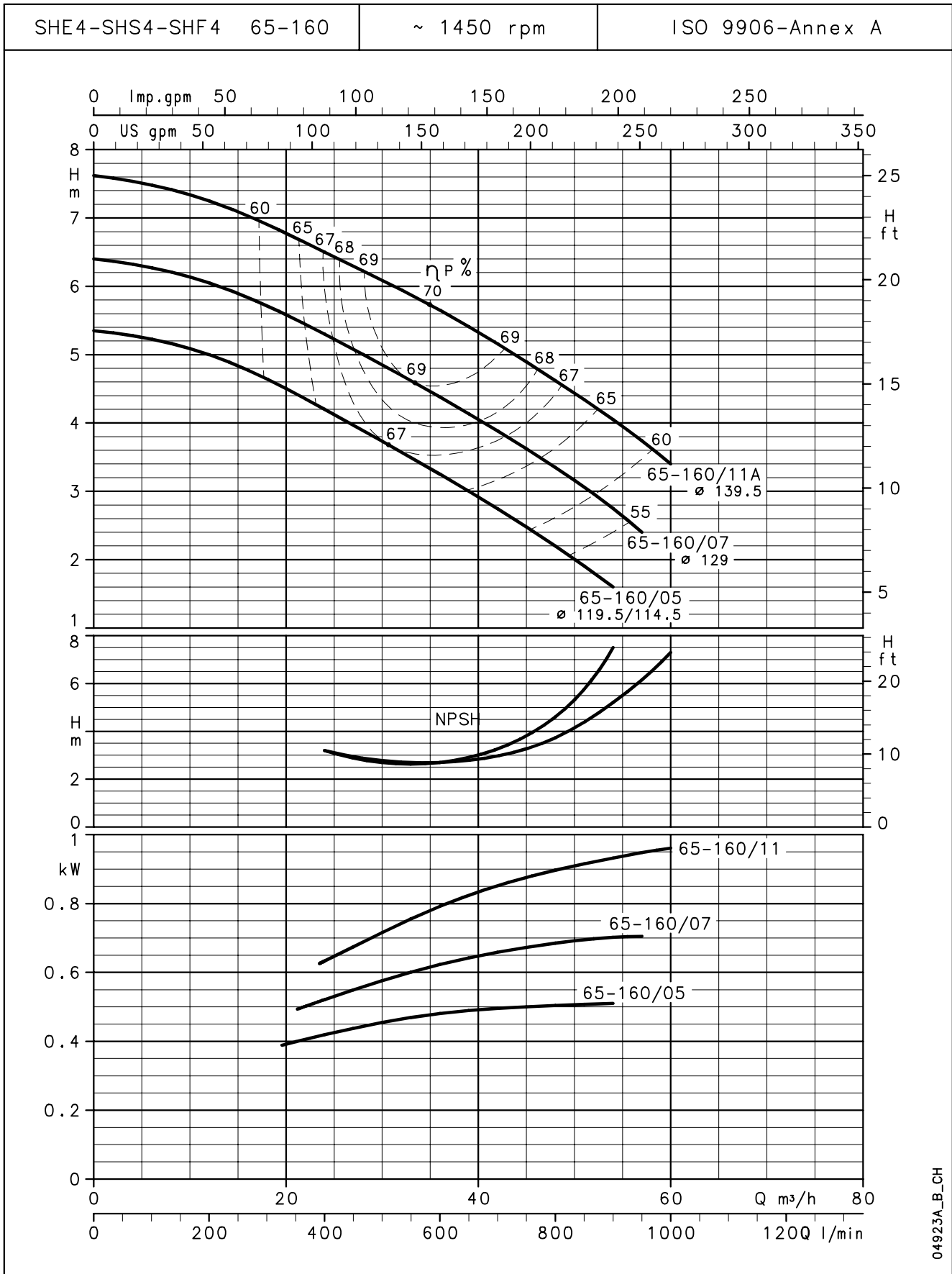
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04923A\_B\_CH

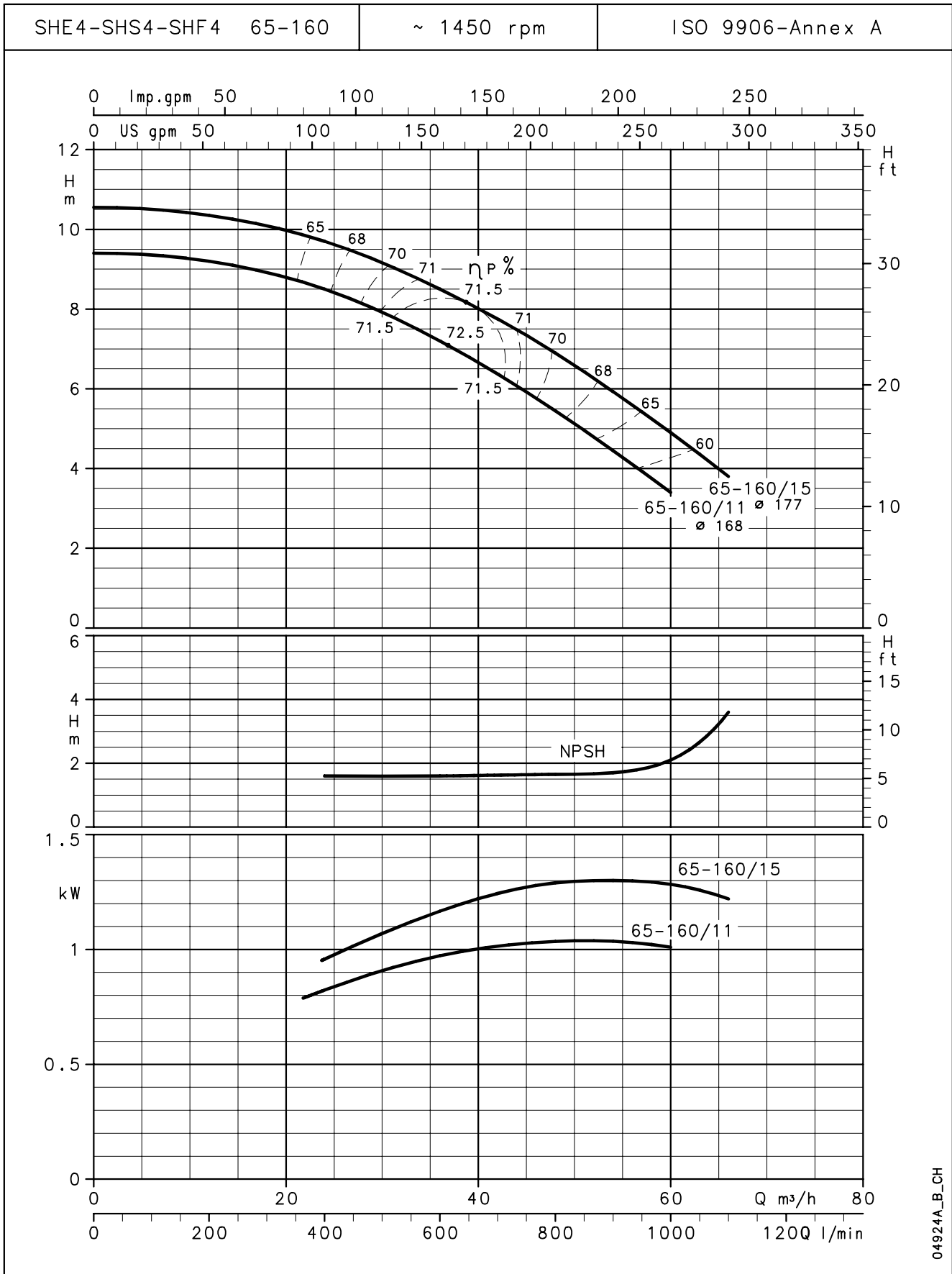
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04924A\_B\_CH

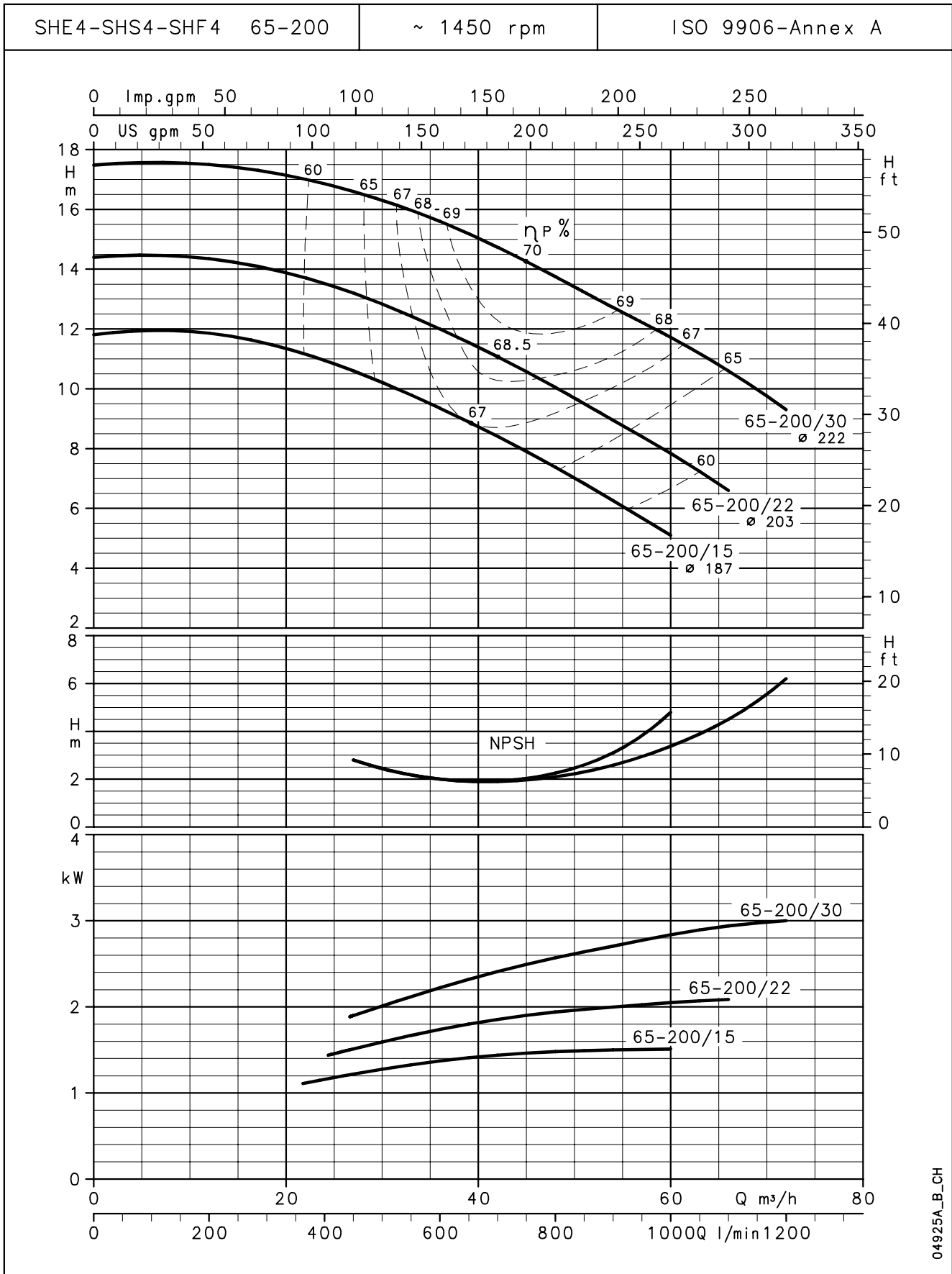
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04925A\_B\_CH

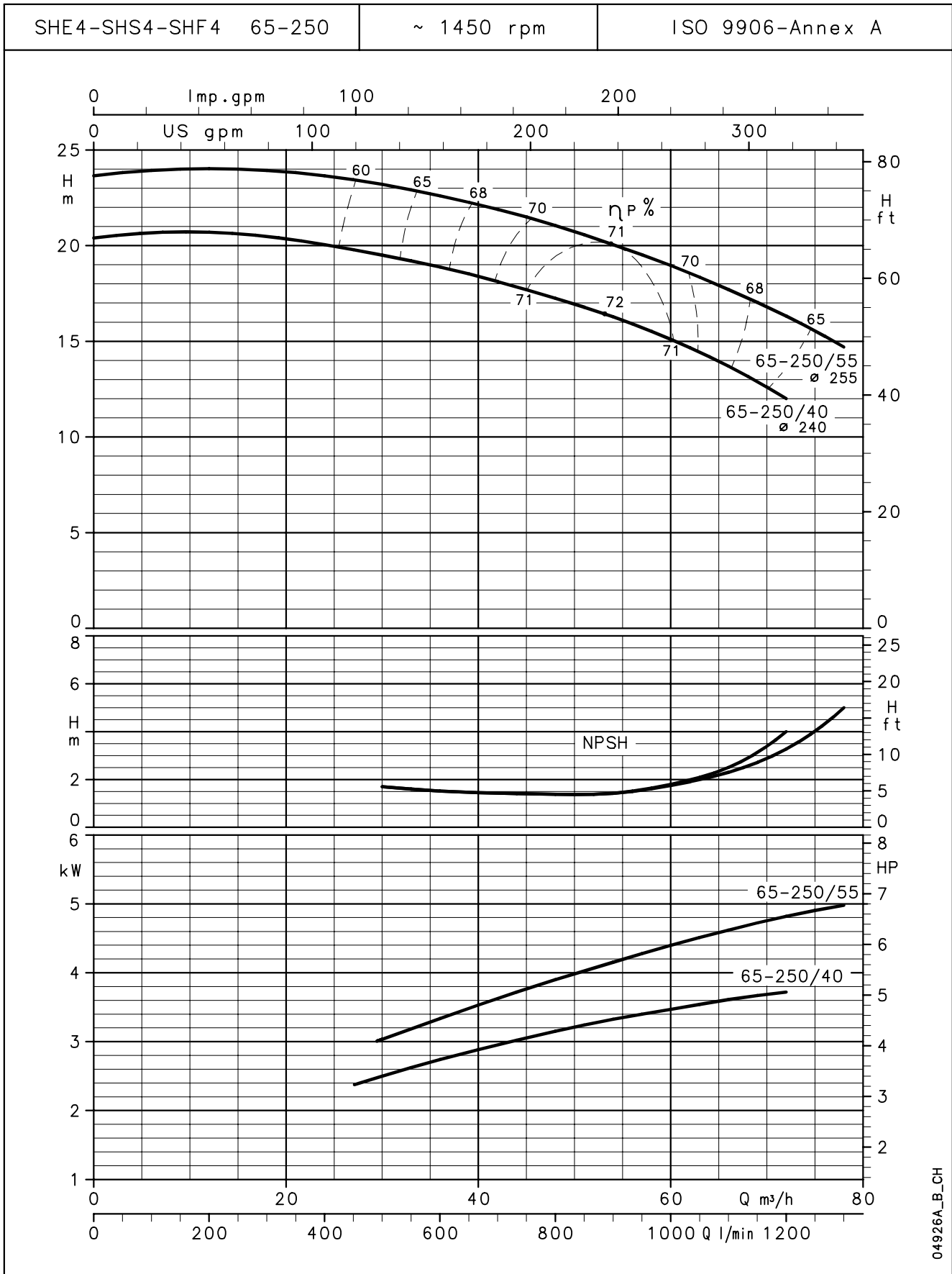
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04926A\_B\_CH

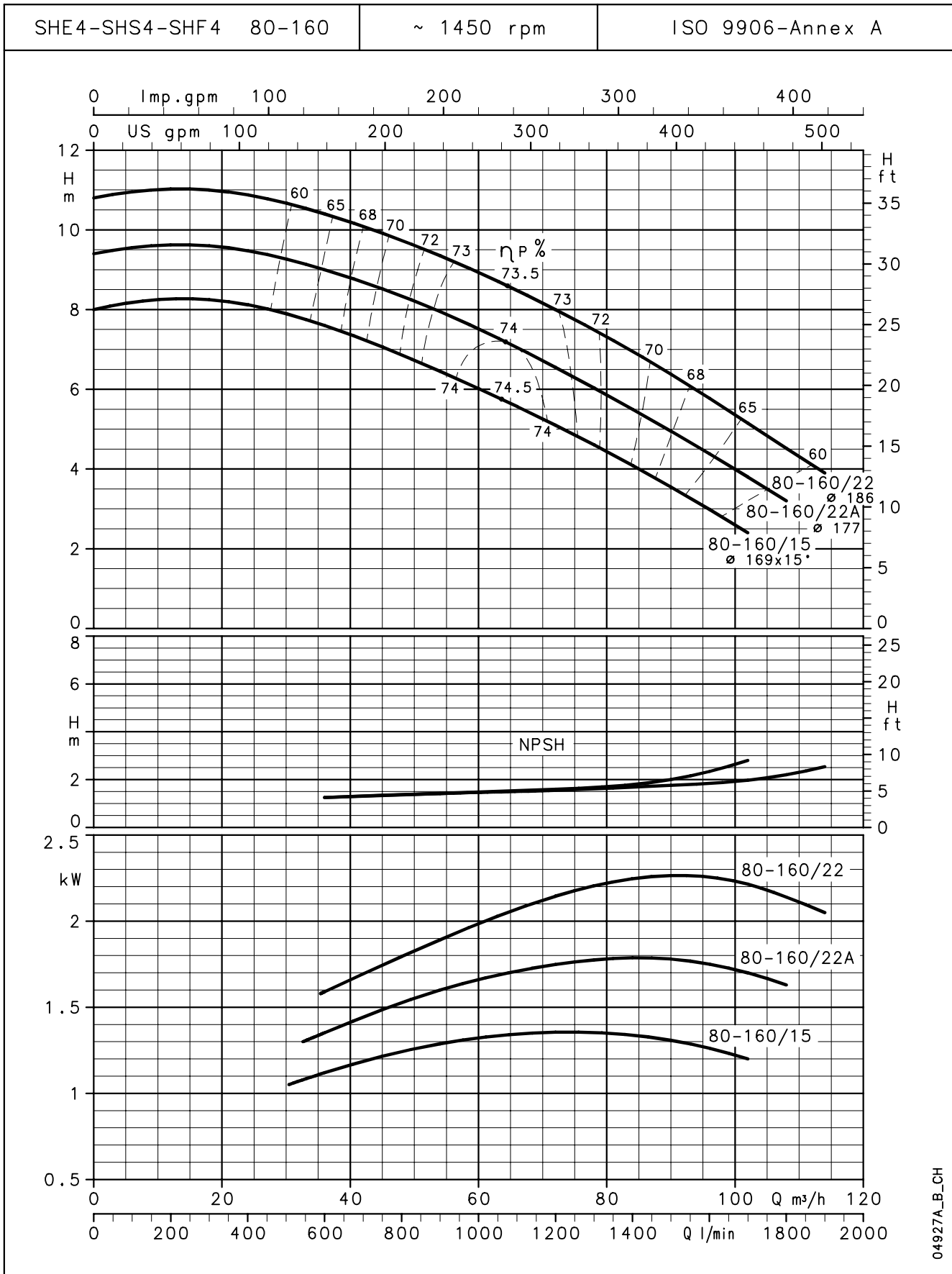
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04927A\_B\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .

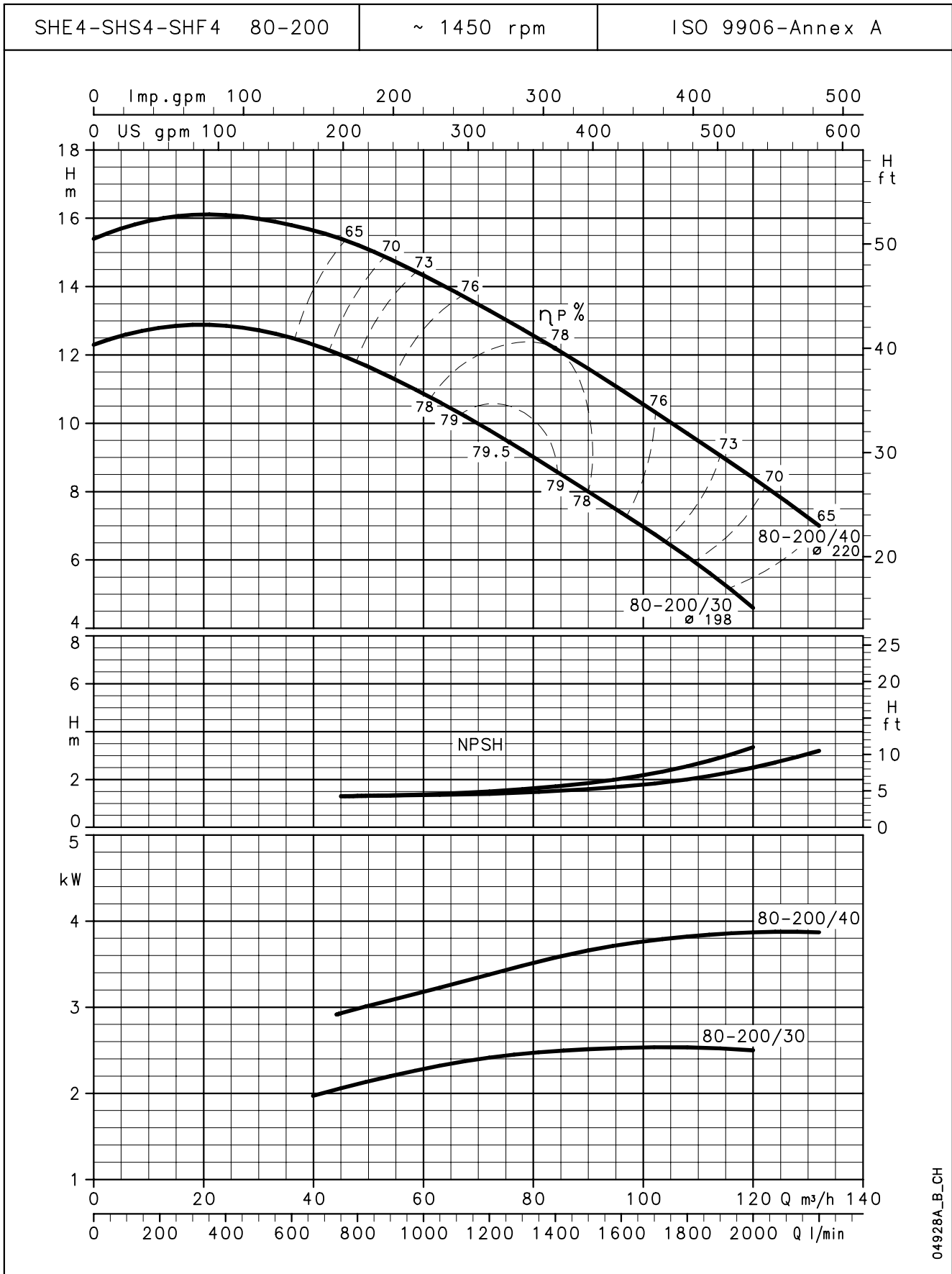




# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04928A\_B\_CH

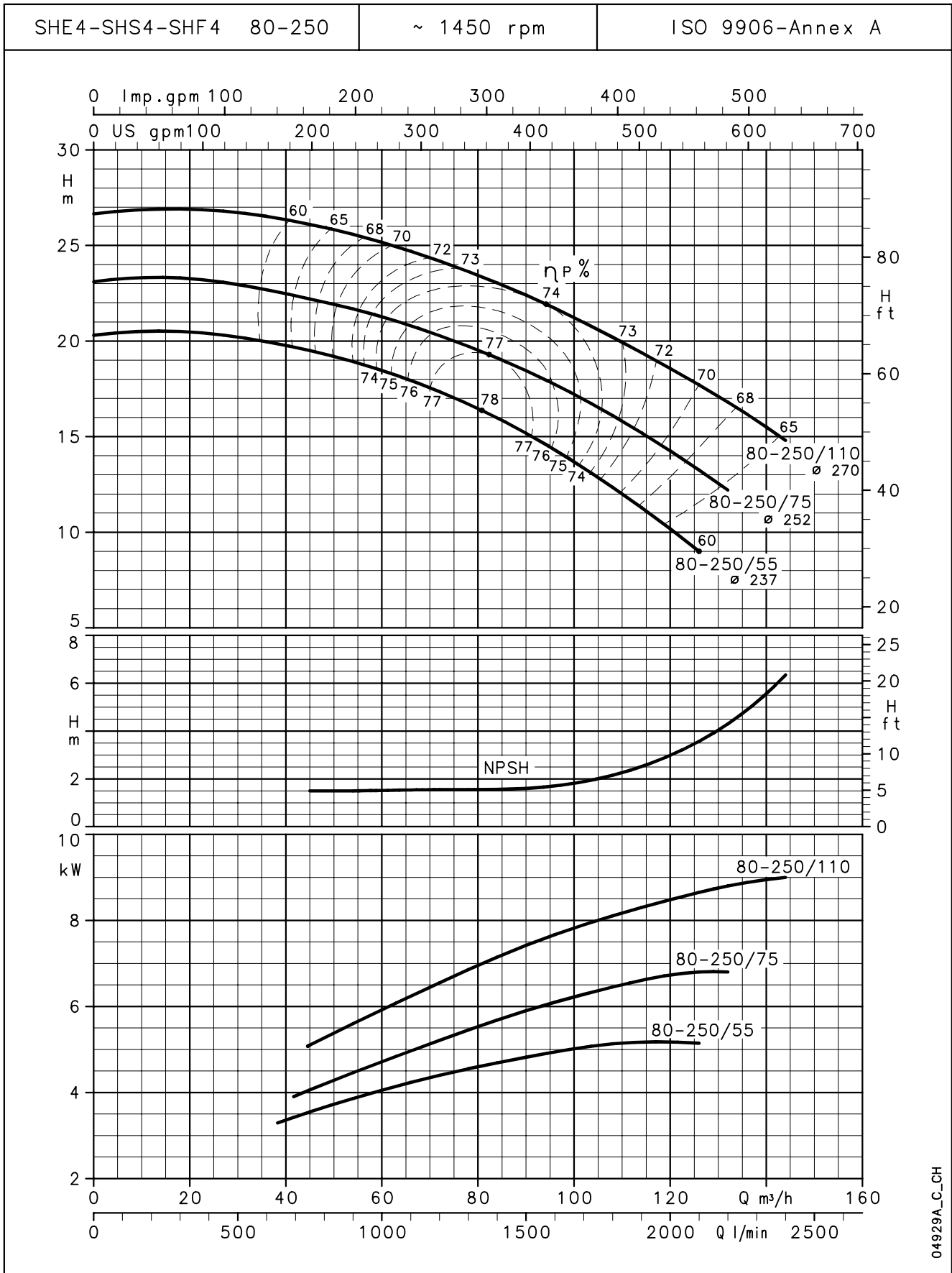
The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



# ITT

# Lowara

## SHE4-SHS4-SHF4 SERIES OPERATING CHARACTERISTICS AT 50 Hz, 4 POLES



04929A\_C\_CH

The NPSH values are laboratory values; for practical use we suggest increasing these values by 0,5 m.  
These performances are valid for liquids with density  $\rho = 1,0 \text{ Kg/dm}^3$  and kinematic viscosity  $\nu = 1 \text{ mm}^2/\text{sec}$ .



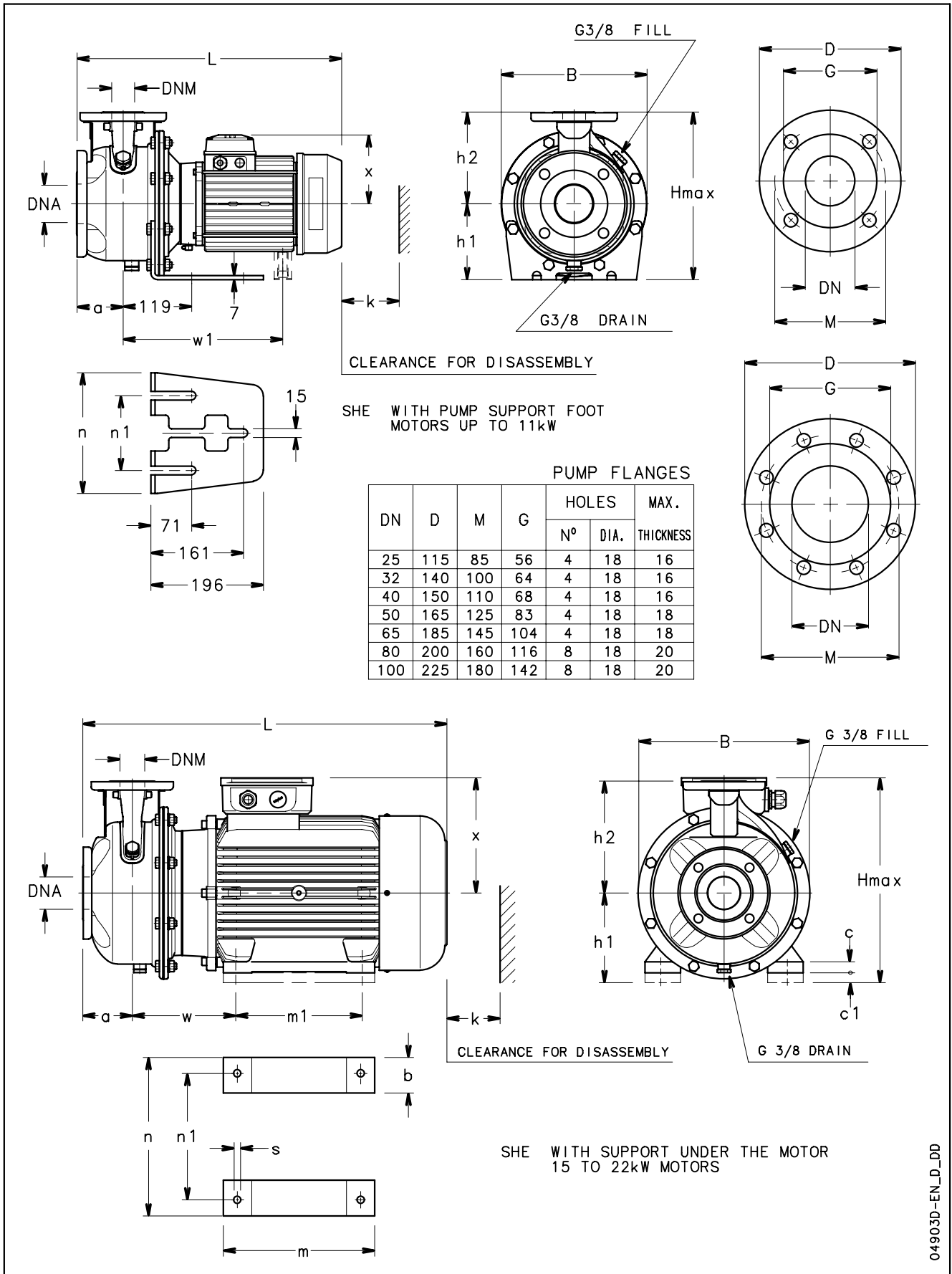
# **DIMENSIONS AND WEIGHTS**



# ITT

# Lowara

## SHE SERIES DIMENSIONS AND WEIGHTS





# ITT

# Lowara

## SHE SERIES DIMENSIONS AND WEIGHTS

PUMP TYPE	DIMENSIONS (mm)															B	H max	L	k	WEIGHT kg	
	DNM	DNA	PUMP					SUPPORT													
			a	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s					
SHE 25-125/07	25	50	80	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	443	98	17
SHE 25-125/11	25	50	80	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	443	98	19
SHE 25-160/15	25	50	80	160	-	-	129	-	-	-	160	-	-	210	130	-	253	320	443	98	23
SHE 25-160/22	25	50	80	160	-	-	129	-	-	-	160	-	-	210	130	-	253	320	443	98	24
SHE 25-200/30	25	50	80	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	478	98	38
SHE 25-200/40	25	50	80	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	499	98	41
SHE 25-250/55	25	50	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	553	98	66
SHE 25-250/75	25	50	100	225	-	305	191	-	-	-	180	-	-	265	130	-	345	405	567	98	84
SHE 25-250/110	25	50	100	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	605	98	92
SHE 32-125/07	32	50	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	98	17
SHE 32-125/11	32	50	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	98	19
SHE 32-160/15	32	50	80	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	443	98	23
SHE 32-160/22	32	50	80	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	443	98	24
SHE 32-200/30	32	50	80	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	478	98	38
SHE 32-200/40	32	50	80	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	499	98	41
SHE 32-250/55	32	50	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	553	98	66
SHE 32-250/75	32	50	100	225	-	305	191	-	-	-	180	-	-	265	130	-	345	405	567	98	84
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SHE 40-125/11	40	65	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	100	20
SHE 40-125/15	40	65	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	100	21
SHE 40-125/22	40	65	80	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	443	100	25
SHE 40-160/30	40	65	80	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	478	100	32
SHE 40-160/40	40	65	80	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	499	100	40
SHE 40-200/55	40	65	100	180	-	-	168	-	-	-	160	-	-	230	130	-	284	340	553	100	52
SHE 40-200/75	40	65	100	180	-	305	191	-	-	-	160	-	-	230	130	-	284	340	567	100	65
SHE 40-250/92	40	65	100	225	-	343	191	-	-	-	180	-	-	265	130	-	345	405	605	107	89
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SHE 40-250/150	40	65	100	225	208	-	240	49	5	20	180	304	210	304	254	15	345	420	694	107	130
SHE 50-125/22	50	65	100	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	463	104	25
SHE 50-125/30	50	65	100	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	498	104	33
SHE 50-125/40	50	65	100	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	519	104	40
SHE 50-160/55	50	65	100	180	-	-	168	-	-	-	160	-	-	210	130	-	253	340	553	104	52
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SHE 50-200/92	50	65	100	200	-	343	191	-	-	-	160	-	-	245	130	-	310	360	605	104	84
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SHE 50-250/185	50	65	100	225	208	-	240	49	5	20	180	304	254	304	254	15	345	420	694	107	144
SHE 50-250/220	50	65	100	225	208	-	240	49	5	20	180	304	254	304	254	15	345	420	694	107	147
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SHE 80-160/150	80	100	125	225	208	-	240	49	5	20	180	304	210	304	254	15	345	420	719	160	128
SHE 80-160/185	80	100	125	225	208	-	240	49	5	20	180	304	254	304	254	15	345	420	719	160	139
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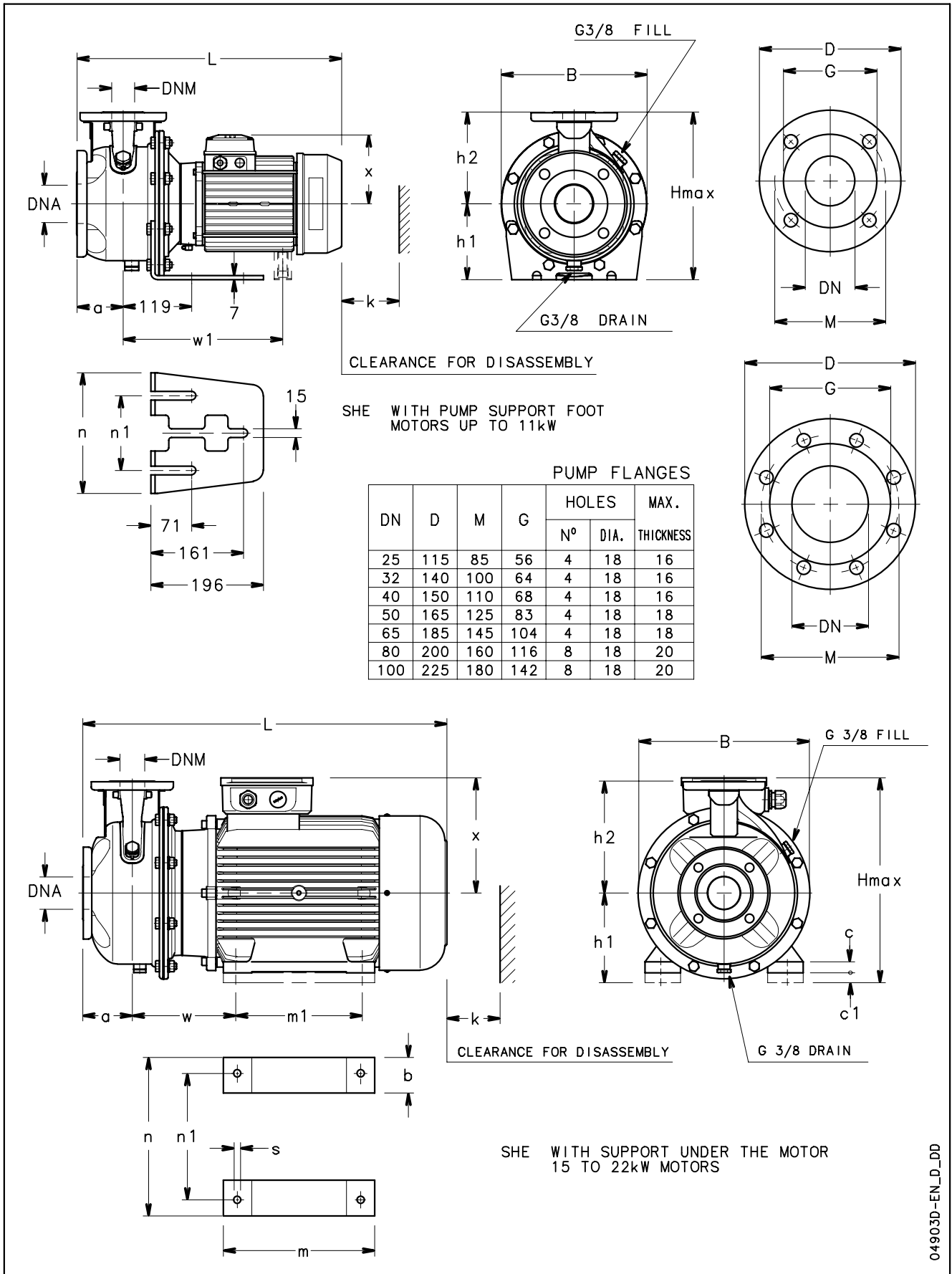
sh-she-2p50-en\_c\_td



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## SHE4 SERIES DIMENSIONS AND WEIGHTS





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## SHE4 SERIES DIMENSIONS AND WEIGHTS

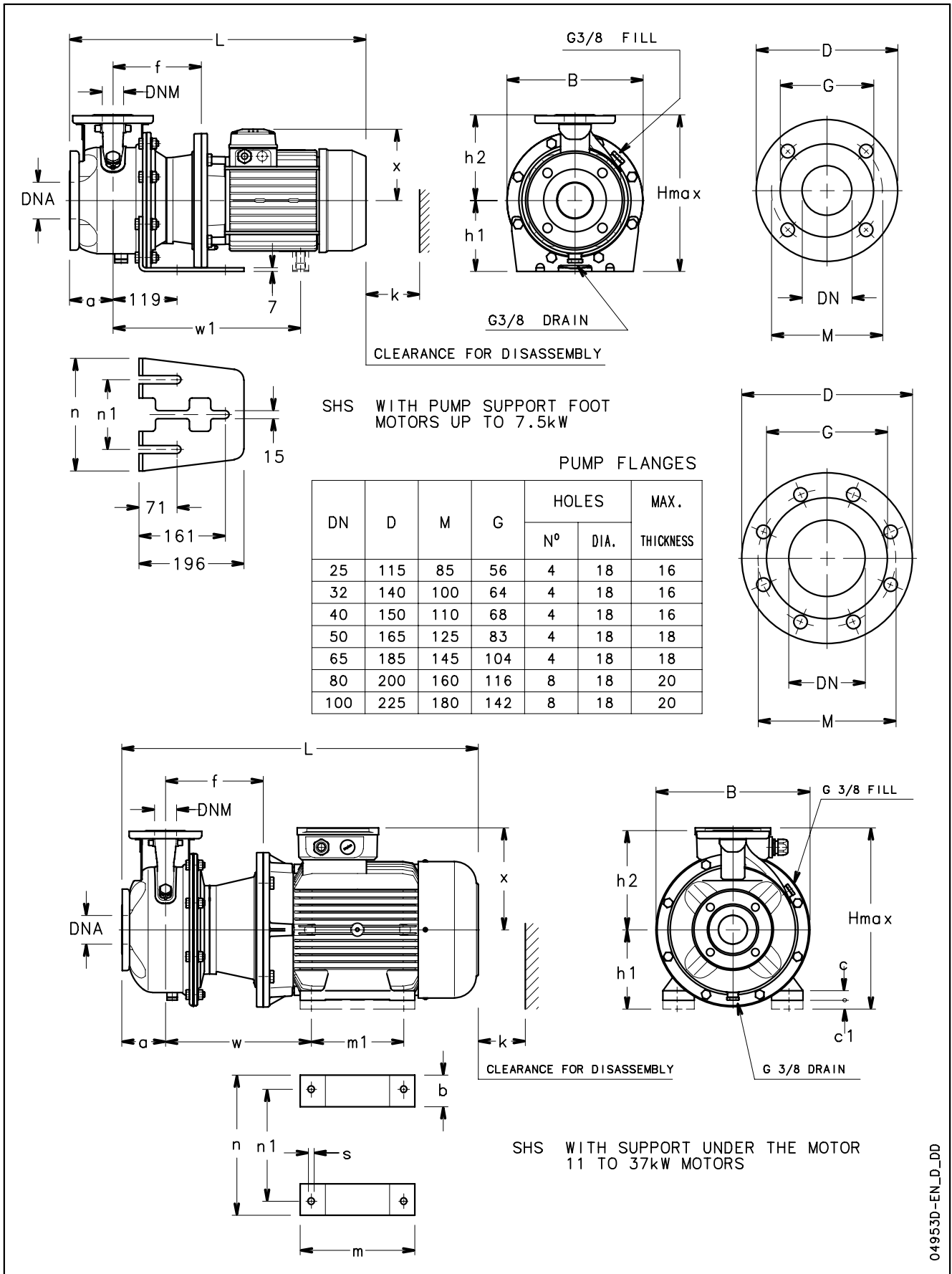
PUMP TYPE	DIMENSIONS (mm)																B	H max	L	k	WEIGHT kg
	PUMP						SUPPORT														
	DNM	DNA	a	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s					
SHE4 25-125/02A	25	50	80	140	-	-	121	-	-	-	160	-	-	190	130	-	218	300	411	98	15
SHE4 25-125/02	25	50	80	140	-	-	121	-	-	-	160	-	-	190	130	-	218	300	411	98	16
SHE4 25-160/02	25	50	80	160	-	-	121	-	-	-	160	-	-	210	130	-	253	320	411	98	18
SHE4 25-160/03	25	50	80	160	-	-	121	-	-	-	160	-	-	210	130	-	253	320	411	98	19
SHE4 25-200/03	25	50	80	180	-	-	121	-	-	-	160	-	-	230	130	-	284	340	411	98	26
SHE4 25-200/05	25	50	80	180	-	-	129	-	-	-	160	-	-	230	130	-	284	340	443	98	27
SHE4 25-250/07	25	50	100	225	-	-	129	-	-	-	180	-	-	265	130	-	345	405	463	98	41
SHE4 25-250/11	25	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	49
SHE4 25-250/15	25	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	51
SHE4 32-125/02A	32	50	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	98	15
SHE4 32-125/02	32	50	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	98	16
SHE4 32-160/02	32	50	80	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	411	98	18
SHE4 32-160/03	32	50	80	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	411	98	19
SHE4 32-200/03	32	50	80	180	-	-	121	-	-	-	160	-	-	230	130	-	284	340	411	98	26
SHE4 32-200/05	32	50	80	180	-	-	129	-	-	-	160	-	-	230	130	-	284	340	443	98	27
SHE4 32-250/07	32	50	100	225	-	-	129	-	-	-	180	-	-	265	130	-	345	405	463	98	41
SHE4 32-250/11	32	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	49
SHE4 32-250/15	32	50	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	98	51
SHE4 40-125/02A	40	65	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	100	16
SHE4 40-125/02	40	65	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	100	17
SHE4 40-125/03	40	65	80	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	411	100	18
SHE4 40-160/03	40	65	80	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	411	100	20
SHE4 40-160/05	40	65	80	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	443	100	24
SHE4 40-200/07	40	65	100	180	-	-	129	-	-	-	160	-	-	230	130	-	285	340	463	100	26
SHE4 40-200/11	40	65	100	180	-	-	134	-	-	-	160	-	-	230	130	-	285	340	498	100	35
SHE4 40-250/11	40	65	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	107	47
SHE4 40-250/15	40	65	100	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	498	107	61
SHE4 40-250/22	40	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	522	107	65
SHE4 50-125/03A	50	65	100	160	-	-	121	-	-	-	132	-	-	210	130	-	253	292	431	104	20
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SHE4 50-125/05	50	65	100	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	463	104	26
SHE4 50-160/07	50	65	100	180	-	-	129	-	-	-	160	-	-	210	130	-	253	340	463	104	29
SHE4 50-160/11	50	65	100	180	-	-	134	-	-	-	160	-	-	210	130	-	253	340	498	104	40
SHE4 50-200/11	50	65	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	104	48
SHE4 50-200/15	50	65	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	104	51
SHE4 50-250/22A	50	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	522	107	56
SHE4 50-250/22	50	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	522	107	56
SHE4 50-250/30	50	65	100	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	553	107	62
SHE4 65-160/05	65	80	100	200	-	-	129	-	-	-	160	-	-	245	130	-	310	360	463	130	32
SHE4 65-160/07	65	80	100	200	-	-	129	-	-	-	160	-	-	245	130	-	310	360	463	130	35
SHE4 65-160/11A	65	80	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	130	44
SHE4 65-160/11	65	80	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	130	45
SHE4 65-160/15	65	80	100	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	498	130	48
SHE4 65-200/15	65	80	100	225	-	-	134	-	-	-	180	-	-	245	130	-	310	405	498	130	56
SHE4 65-200/22	65	80	100	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	522	130	64
SHE4 65-200/30	65	80	100	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	553	130	64
SHE4 65-250/40	65	80	100	250	-	315	168	-	-	-	200	-	-	265	130	-	345	450	598	140	84
SHE4 65-250/55	65	80	100	250	-	343	191	-	-	-	200	-	-	265	130	-	345	450	605	140	97
SHE4 80-160/15	80	100	125	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	523	160	55
SHE4 80-160/22A	80	100	125	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	547	160	63
SHE4 80-160/22	80	100	125	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	547	160	66
SHE4 80-200/30	80	100	125	250	-	-	168	-	-	-	180	-	-	265	130	-	345	430	578	160	69
SHE4 80-200/40	80	100	125	250	-	315	168	-	-	-	180	-	-	265	130	-	345	430	623	160	88
SHE4 80-250/55	80	100	125	280	-	343	191	-	-	-	200	-	-	303	210	-	383	480	630	160	102
SHE4 80-250/75	80	100	125	280	-	343	191	-	-	-	200	-	-	303	210	-	383	480	630	160	106
SHE4 80-250/110	80	100	125	280	208	-	240	49	5	40	200	304	210	304	254	15	383	480	719	160	145



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**SHS SERIES  
DIMENSIONS AND WEIGHTS**





**SHS SERIES  
DIMENSIONS AND WEIGHTS**

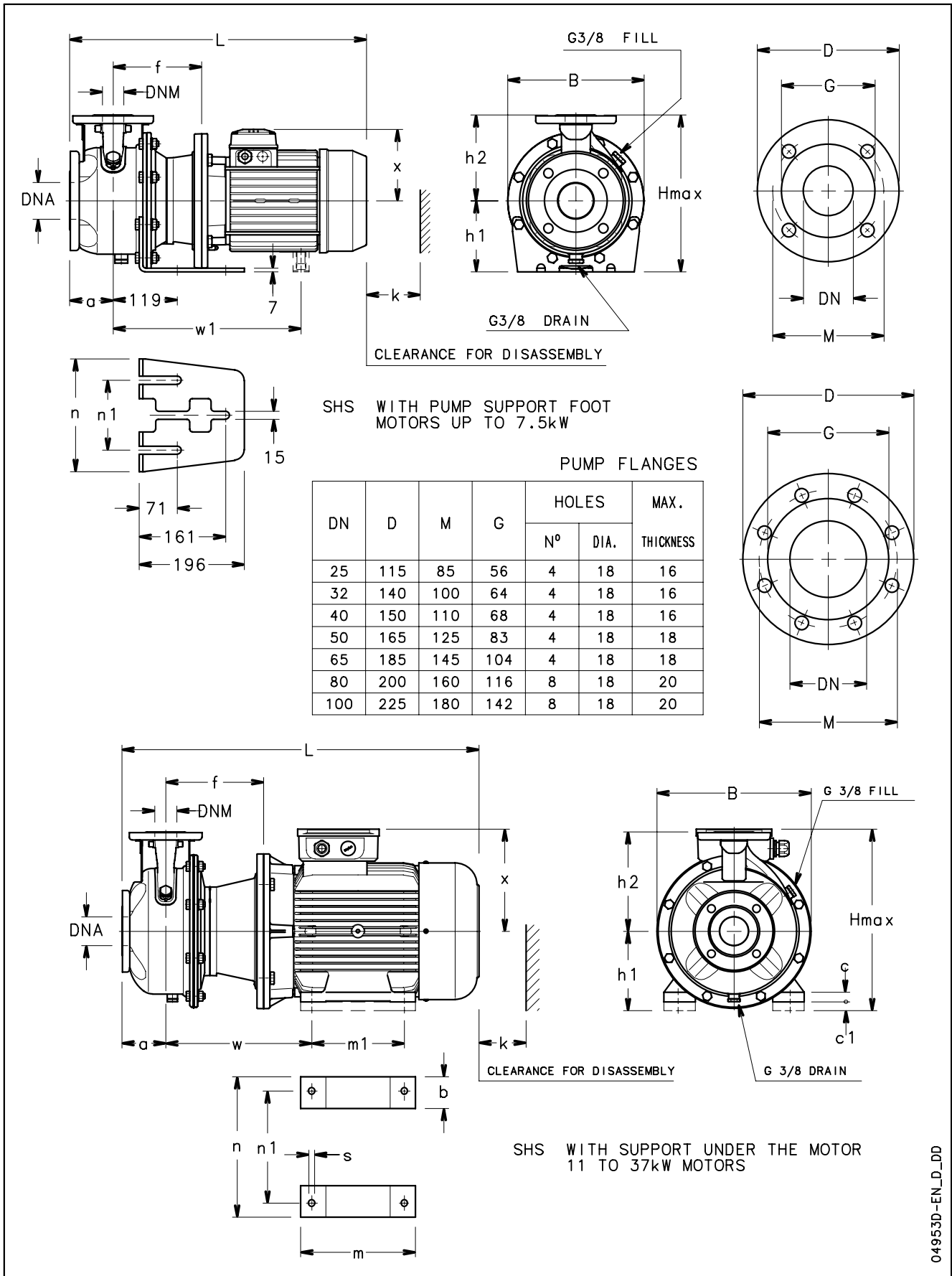
PUMP TYPE	DIMENSIONS (mm)																			B	H	L	k	WEIGHT kg
	PUMP									SUPPORT														
	DNM	DNA	a	f	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s	max						
SHS 25-125/07	25	50	80	155	140	-	-	121	-	-	-	160	-	-	190	130	-	218	300	461	98	22		
SHS 25-125/11	25	50	80	155	140	-	-	129	-	-	-	160	-	-	190	130	-	218	300	498	98	23		
SHS 25-160/15	25	50	80	155	160	-	-	129	-	-	-	160	-	-	210	130	-	253	320	498	98	26		
SHS 25-160/22	25	50	80	155	160	-	-	129	-	-	-	160	-	-	210	130	-	253	320	498	98	28		
SHS 25-200/30	25	50	80	165	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	543	98	44		
SHS 25-200/40	25	50	80	165	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	564	98	51		
SHS 25-250/55	25	50	100	192	225	-	399	168	-	-	-	180	-	-	265	130	-	345	405	667	98	77		
SHS 25-250/75	25	50	100	192	225	-	397	191	-	-	-	180	-	-	265	130	-	345	405	659	98	91		
SHS 25-250/110	25	50	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	98	130		
SHS 32-125/07	32	50	80	155	140	-	-	121	-	-	-	112	-	-	190	130	-	218	252	461	98	22		
SHS 32-125/11	32	50	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	98	23		
SHS 32-160/15	32	50	80	155	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	498	98	26		
SHS 32-160/22	32	50	80	155	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	498	98	28		
SHS 32-200/30	32	50	80	165	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	543	98	44		
SHS 32-200/40	32	50	80	165	180	-	-	154	-	-	-	160	-	-	230	130	-	284	340	564	98	51		
SHS 32-250/55	32	50	100	192	225	-	399	168	-	-	-	180	-	-	265	130	-	345	405	667	98	77		
SHS 32-250/75	32	50	100	192	225	-	397	191	-	-	-	180	-	-	265	130	-	345	405	659	98	91		
SHS 32-250/110	32	50	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	98	130		
SHS 40-125/11	40	65	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	100	24		
SHS 40-125/15	40	65	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	100	24		
SHS 40-125/22	40	65	80	155	140	-	-	129	-	-	-	112	-	-	190	130	-	218	252	498	100	27		
SHS 40-160/30	40	65	80	165	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	543	100	42		
SHS 40-160/40	40	65	80	165	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	564	100	48		
SHS 40-200/55	40	65	100	192	180	-	399	168	-	-	-	160	-	-	230	130	-	300	340	667	100	63		
SHS 40-200/75	40	65	100	192	180	-	397	191	-	-	-	160	-	-	230	130	-	300	340	659	100	80		
SHS 40-250/110A	40	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	129		
SHS 40-250/110	40	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	129		
SHS 40-250/150	40	65	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	107	142		
SHS 50-125/22	50	65	100	155	160	-	-	129	-	-	-	132	-	-	210	130	-	253	292	518	104	31		
SHS 50-125/30	50	65	100	165	160	-	-	134	-	-	-	132	-	-	210	130	-	253	292	563	104	37		
SHS 50-125/40	50	65	100	165	160	-	-	154	-	-	-	132	-	-	210	130	-	253	292	584	104	48		
SHS 50-160/55	50	65	100	192	180	-	399	168	-	-	-	160	-	-	210	130	-	300	340	667	104	62		
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SHS 50-250/185	50	65	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	107	156		
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SHS 65-160/40	65	80	100	165	200	-	-	154	-	-	-	160	-	-	245	130	-	310	360	584	130	60		
SHS 65-160/55	65	80	100	192	200	-	399	168	-	-	-	160	-	-	245	130	-	310	360	667	130	78		
SHS 65-160/75	65	80	100	192	200	-	397	191	-	-	-	160	-	-	245	130	-	310	360	659	130	93		
SHS 65-160/110A	65	80	100	222	200	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	130	116		
SHS 65-160/110	65	80	100	222	200	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	130	120		
SHS 65-200/150	65	80	100	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	816	130	147		
SHS 65-200/185	65	80	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	130	153		
SHS 65-200/220	65	80	100	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	816	130	167		
SHS 65-250/300	65	80	100	228	250	361	-	278	60	24	-	200	345	305	360	318	18	400	478	941	140	194		
SHS 65-250/370	65	80	100	228	250	361	-	278	60	24	-	200	345	305	360	318	18	400	478	941	140	215		
SHS 80-160/110	80	100	125	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	841	160	116		
SHS 80-160/150	80	100	125	222	225	330	-	240	49	5	20	180	304	210	304	254	15	350	420	841	160	152		
SHS 80-160/185	80	100	125	222	225	330	-	240	49	5	20	180	304	254	304	254	15	350	420	841	160	160		
SHS 80-200/220	80	100	125	222	250	330	-	240	49	5	20	180	304	254	304	254	15	350	430	841	160	162		
SHS 80-200/300	80	100	125	228	250	361	-	278	60	24	-	200	345	305	360	318	18	400	478	966	160	216		
SHS 80-200/370	80	100	125	228	250	361	-	278	60	24	-	200	345	305	360	318	18	400	478	966	160	210		



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## SHS4 SERIES DIMENSIONS AND WEIGHTS





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## SHS4 SERIES DIMENSIONS AND WEIGHTS

PUMP TYPE	DIMENSIONS (mm)																			WEIGHT kg		
	PUMP									SUPPORT									B		H	L
	DNM	DNA	a	f	h2	w	w1	x	b	c	c1	h1	m	m1	n	n1	s	max				
SHS4 25-250/07	25	50	100	155	225	-	-	129	-	-	-	180	-	-	265	130	-	345	405	518	98	41
SHS4 25-250/11	25	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	49
SHS4 25-250/15	25	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	50
SHS4 32-250/07	32	50	100	155	225	-	-	129	-	-	-	180	-	-	265	130	-	345	405	518	98	41
SHS4 32-250/11	32	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	49
SHS4 32-250/15	32	50	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	98	50
SHS4 40-200/07	40	65	100	155	180	-	-	129	-	-	-	160	-	-	230	130	-	284	340	518	100	30
SHS4 40-200/11	40	65	100	155	180	-	-	134	-	-	-	160	-	-	230	130	-	284	340	553	100	37
SHS4 40-250/11	40	65	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	107	51
SHS4 40-250/15	40	65	100	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	553	107	64
SHS4 40-250/22	40	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	587	107	68
SHS4 50-160/07	50	65	100	155	180	-	-	129	-	-	-	160	-	-	210	130	-	253	340	518	104	29
SHS4 50-160/11	50	65	100	155	180	-	-	134	-	-	-	160	-	-	210	130	-	253	340	553	104	36
SHS4 50-200/11	50	65	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	104	49
SHS4 50-200/15	50	65	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	104	52
SHS4 50-250/22A	50	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	587	107	58
SHS4 50-250/22	50	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	587	107	59
SHS4 50-250/30	50	65	100	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	618	107	65
SHS4 65-160/05	65	80	100	155	200	-	-	129	-	-	-	160	-	-	245	130	-	310	360	518	130	34
SHS4 65-160/07	65	80	100	155	200	-	-	129	-	-	-	160	-	-	245	130	-	310	360	518	130	37
SHS4 65-160/11A	65	80	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	130	46
SHS4 65-160/11	65	80	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	130	48
SHS4 65-160/15	65	80	100	155	200	-	-	134	-	-	-	160	-	-	245	130	-	310	360	553	130	51
SHS4 65-200/15	65	80	100	155	225	-	-	134	-	-	-	180	-	-	245	130	-	310	405	553	130	54
SHS4 65-200/22	65	80	100	165	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	587	130	71
SHS4 65-200/30	65	80	100	165	225	-	-	168	-	-	-	180	-	-	245	130	-	310	405	618	130	72
SHS4 65-250/40	65	80	100	165	250	-	380	168	-	-	-	200	-	-	265	130	-	345	450	663	140	97
SHS4 65-250/55	65	80	100	192	250	-	435	191	-	-	-	200	-	-	265	130	-	345	450	697	140	104
SHS4 80-160/15	80	100	125	155	225	-	-	134	-	-	-	180	-	-	265	130	-	345	405	578	160	59
SHS4 80-160/22A	80	100	125	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	612	160	67
SHS4 80-160/22	80	100	125	165	225	-	-	168	-	-	-	180	-	-	265	130	-	345	405	612	160	67
SHS4 80-200/30	80	100	125	165	250	-	-	168	-	-	-	180	-	-	265	130	-	345	430	643	160	72
SHS4 80-200/40	80	100	125	165	250	-	380	168	-	-	-	180	-	-	265	130	-	345	430	688	160	88
SHS4 80-250/55	80	100	125	192	280	-	435	191	-	-	-	200	-	-	303	210	-	383	480	722	160	107
SHS4 80-250/75	80	100	125	192	280	-	435	191	-	-	-	200	-	-	303	210	-	383	480	722	160	113
SHS4 80-250/110	80	100	125	222	280	330	-	240	49	5	40	200	304	210	304	254	15	383	480	841	160	153

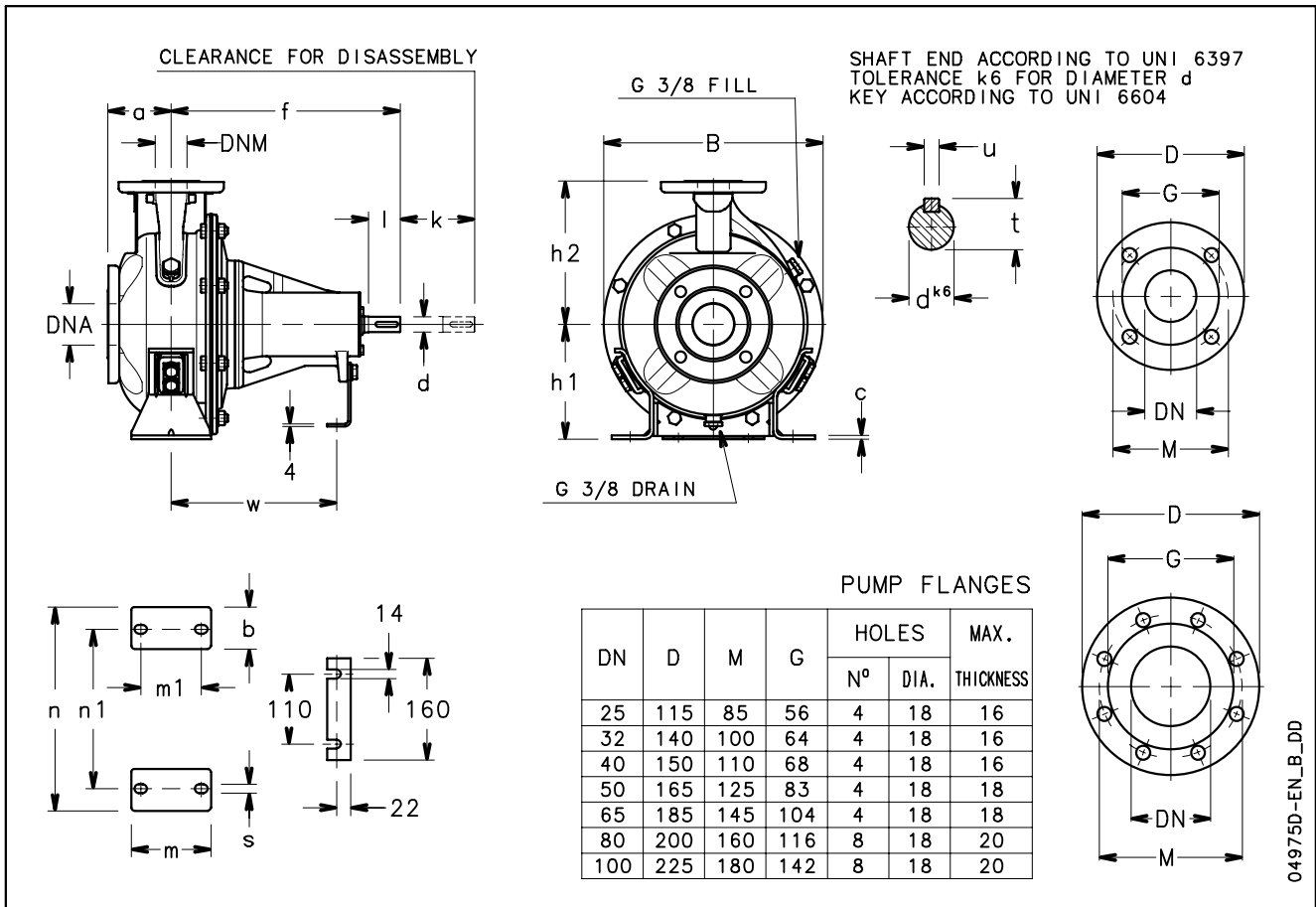
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## SHF BARE SHAFT SERIES DIMENSIONS AND WEIGHTS





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## SHF BARE SHAFT SERIES DIMENSIONS AND WEIGHTS

PUMP TYPE	DIMENSIONS (mm)																			B	k	WEIGHT kg
	PUMP						SUPPORT						SHAFT									
	DNM	DNA	a	f	h1	h2	b	c	m	m1	n	n1	s	w	d	l	t	u				
SHF 25-125	25	50	80	360	112	140	47	3	100	70	190	140	14	260	24	50	27	8	218	98	14	
SHF 25-160	25	50	80	360	132	160	48	3	100	70	240	190	14	260	24	50	27	8	253	98	17	
SHF 25-200	25	50	80	360	160	180	47	3	100	70	240	190	14	260	24	50	27	8	284	98	20	
SHF 25-250	25	50	100	360	180	225	54	6	125	95	320	250	14	260	24	50	27	8	345	98	34	
SHF 32-125	32	50	80	360	112	140	47	3	100	70	190	140	14	260	24	50	27	8	218	98	14	
SHF 32-160	32	50	80	360	132	160	48	3	100	70	240	190	14	260	24	50	27	8	253	98	17	
SHF 32-200	32	50	80	360	160	180	47	3	100	70	240	190	14	260	24	50	27	8	284	98	20	
SHF 32-250	32	50	100	360	180	225	54	6	125	95	320	250	14	260	24	50	27	8	345	98	34	
SHF 40-125	40	65	80	360	112	140	47	3	100	70	210	160	14	260	24	50	27	8	218	100	16	
SHF 40-160	40	65	80	360	132	160	48	3	100	70	240	190	14	260	24	50	27	8	253	100	18	
SHF 40-200	40	65	100	360	160	180	50	3	100	70	265	212	14	260	24	50	27	8	284	100	20	
SHF 40-250	40	65	100	360	180	225	54	6	125	95	320	250	14	260	24	50	27	8	345	107	33	
SHF 50-125	50	65	100	360	132	160	48	3	100	70	240	190	14	260	24	50	27	8	253	104	17	
SHF 50-160	50	65	100	360	160	180	48	3	100	70	265	212	14	260	24	50	27	8	253	104	24	
SHF 50-200	50	65	100	360	160	200	40	6	100	70	265	212	14	260	24	50	27	8	310	104	30	
SHF 50-250	50	65	100	360	180	225	54	6	125	95	320	250	14	260	24	50	27	8	345	107	37	
SHF 65-160	65	80	100	360	160	200	48	6	125	95	280	212	14	260	24	50	27	8	310	130	31	
SHF 65-200	65	80	100	360	180	225	65	15	125	95	320	250	14	260	24	50	27	8	310	130	42	
SHF 65-250	65	80	100	470	200	250	80	18	160	120	360	280	18	340	32	80	35	10	345	140	55	
SHF 80-160	80	100	125	360	180	225	54	6	125	95	320	250	14	260	24	50	27	8	345	160	37	
SHF 80-200	80	100	125	470	180	250	65	15	125	95	345	280	14	340	32	80	35	10	345	160	55	
SHF 80-250	80	100	125	470	200	280	80	18	160	120	400	315	18	340	32	80	35	10	383	160	67	

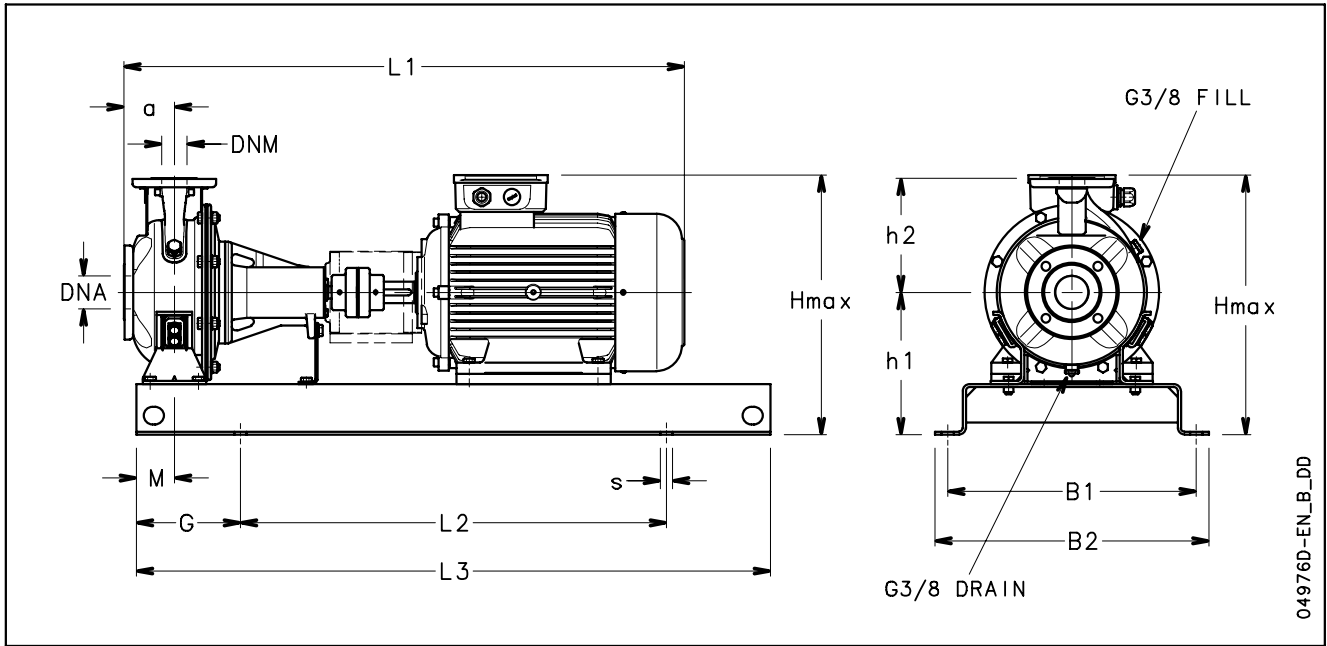
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## SHF BASE-MOUNTED SERIES DIMENSIONS AND WEIGHTS





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## SHF BASE-MOUNTED SERIES DIMENSIONS AND WEIGHTS

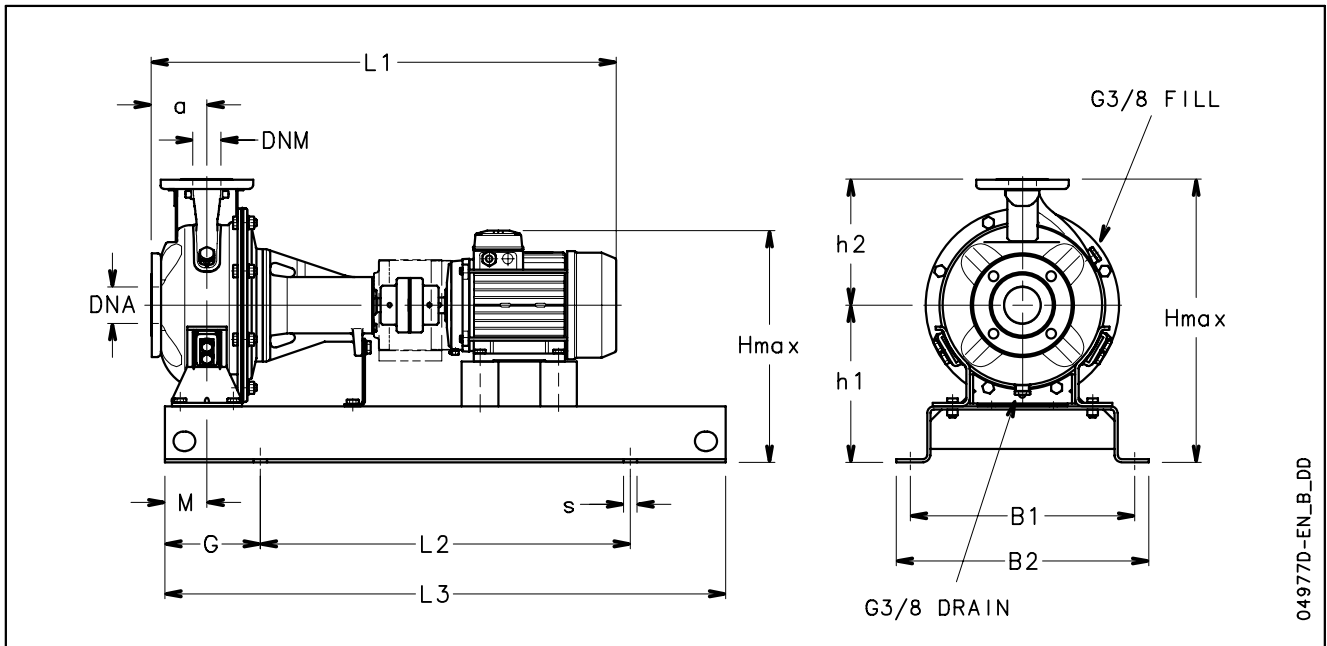
PUMP TYPE	DIMENSIONS (mm)													s FOR SCREWS	WEIGHT kg	COUPLING TYPE
	DNM	DNA	a	B1	B2	L1	L2	L3	G	M	h1	h2	Hmax			
SHF 25-125/07	25	50	80	320	360	746	540	800	130	60	212	140	352	M16	65	A2
SHF 25-125/11	25	50	80	320	360	746	540	800	130	60	212	140	352	M16	67	A2
SHF 25-160/15	25	50	80	350	390	791	600	900	150	60	232	160	392	M16	73	A3
SHF 25-160/22	25	50	80	350	390	791	600	900	150	60	232	160	392	M16	75	A3
SHF 25-200/30	25	50	80	350	390	822	600	900	150	60	260	180	440	M16	95	B1
SHF 25-200/40	25	50	80	350	390	825	600	900	150	60	260	180	440	M16	97	B1
SHF 25-250/55	25	50	100	440	490	910	740	1120	190	75	280	225	505	M20	130	C1
SHF 25-250/75	25	50	100	440	490	910	740	1120	190	75	280	225	505	M20	134	C1
SHF 25-250/110	25	50	100	490	540	1067	840	1250	205	75	280	225	520	M20	181	C2
SHF 32-125/07	32	50	80	320	360	746	540	800	130	60	212	140	352	M16	65	A2
SHF 32-125/11	32	50	80	320	360	746	540	800	130	60	212	140	352	M16	67	A2
SHF 32-160/15	32	50	80	350	390	791	600	900	150	60	232	160	392	M16	73	A3
SHF 32-160/22	32	50	80	350	390	791	600	900	150	60	232	160	392	M16	75	A3
SHF 32-200/30	32	50	80	350	390	822	600	900	150	60	260	180	440	M16	95	B1
SHF 32-200/40	32	50	80	350	390	825	600	900	150	60	260	180	440	M16	97	B1
SHF 32-250/55	32	50	100	440	490	910	740	1120	190	75	280	225	505	M20	130	C1
SHF 32-250/75	32	50	100	440	490	910	740	1120	190	75	280	225	505	M20	134	C1
SHF 32-250/110	32	50	100	490	540	1067	840	1250	205	75	280	225	520	M20	181	C2
SHF 40-125/11	40	65	80	350	390	746	600	900	150	60	212	140	352	M16	68	A2
SHF 40-125/15	40	65	80	350	390	791	600	900	150	60	212	140	352	M16	74	A3
SHF 40-125/22	40	65	80	350	390	791	600	900	150	60	212	140	352	M16	77	A3
SHF 40-160/30	40	65	80	350	390	822	600	900	150	60	232	160	392	M16	92	B1
SHF 40-160/40	40	65	80	350	390	825	600	900	150	60	232	160	400	M16	96	B1
SHF 40-200/55	40	65	100	400	450	910	660	1000	170	60	260	180	451	M20	123	C1
SHF 40-200/75	40	65	100	400	450	910	660	1000	170	60	260	180	451	M20	128	C1
SHF 40-250/110A	40	65	100	490	540	1067	840	1250	205	75	280	225	520	M20	167	C2
SHF 40-250/110	40	65	100	490	540	1067	840	1250	205	75	280	225	520	M20	170	C2
SHF 40-250/150	40	65	100	490	540	1067	840	1250	205	75	280	225	520	M20	175	C2
SHF 50-125/22	50	65	100	350	390	811	600	900	150	60	232	160	392	M16	84	A3
SHF 50-125/30	50	65	100	350	390	842	600	900	150	60	232	160	392	M16	92	B1
SHF 50-125/40	50	65	100	350	390	845	600	900	150	60	232	160	400	M16	95	B1
SHF 50-160/55	50	65	100	400	450	910	660	1000	170	60	260	180	451	M20	120	C1
SHF 50-160/75	50	65	100	400	450	910	660	1000	170	60	260	180	451	M20	122	C1
SHF 50-200/110A	50	65	100	440	490	1067	740	1120	190	60	260	200	500	M20	145	C2
SHF 50-200/110	50	65	100	440	490	1067	740	1120	190	60	260	200	500	M20	150	C2
SHF 50-250/150	50	65	100	490	540	1067	840	1250	205	75	280	225	520	M20	165	C2
SHF 50-250/185	50	65	100	490	540	1067	840	1250	205	75	280	225	520	M20	170	C2
SHF 50-250/220	50	65	100	490	540	1111	840	1250	205	75	280	225	538	M20	180	D1
SHF 65-160/40	65	80	100	400	450	845	660	1000	170	75	260	200	460	M20	133	B1
SHF 65-160/55	65	80	100	440	490	910	740	1120	190	75	260	200	460	M20	150	C1
SHF 65-160/75	65	80	100	440	490	910	740	1120	190	75	260	200	460	M20	154	C1
SHF 65-160/110A	65	80	100	490	540	1067	840	1250	205	75	260	200	500	M20	162	C2
SHF 65-160/110	65	80	100	490	540	1067	840	1250	205	75	260	200	500	M20	162	C2
SHF 65-200/150	65	80	100	490	540	1067	840	1250	205	75	280	225	520	M20	185	C2
SHF 65-200/185	65	80	100	490	540	1067	840	1250	205	75	280	225	520	M20	190	C2
SHF 65-200/220	65	80	100	490	540	1111	840	1250	205	75	280	225	538	M20	208	D1
SHF 65-250/300	65	80	100	550	610	1296	940	1400	230	90	310	250	588	M24	271	E1
SHF 65-250/370	65	80	100	550	610	1296	940	1400	230	90	310	250	588	M24	296	E1
SHF 80-160/110	80	100	125	490	540	1092	840	1250	205	75	280	225	520	M20	198	C2
SHF 80-160/150	80	100	125	490	540	1092	840	1250	205	75	280	225	520	M20	209	C2
SHF 80-160/185	80	100	125	490	540	1092	840	1250	205	75	280	225	520	M20	220	C2
SHF 80-200/220	80	100	125	490	540	1246	840	1250	205	75	280	250	538	M20	236	D2
SHF 80-200/300	80	100	125	550	610	1321	940	1400	230	75	310	250	588	M24	277	E1
SHF 80-200/370	80	100	125	550	610	1321	940	1400	230	75	310	250	588	M24	295	E1
SHF 80-250/450	80	100	125	550	610	1398	940	1400	230	90	365	280	663	M24	355	E1
SHF 80-250/550	80	100	125	600	660	1428	1060	1600	270	90	390	280	688	M24	394	F1
SHF 80-250/750	80	100	125	670	730	1558	1200	1800	300	90	420	280	780	M24	405	G1



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## SHF4 BASE-MOUNTED SERIES DIMENSIONS AND WEIGHTS



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## SHF4 BASE-MOUNTED SERIES DIMENSIONS AND WEIGHTS

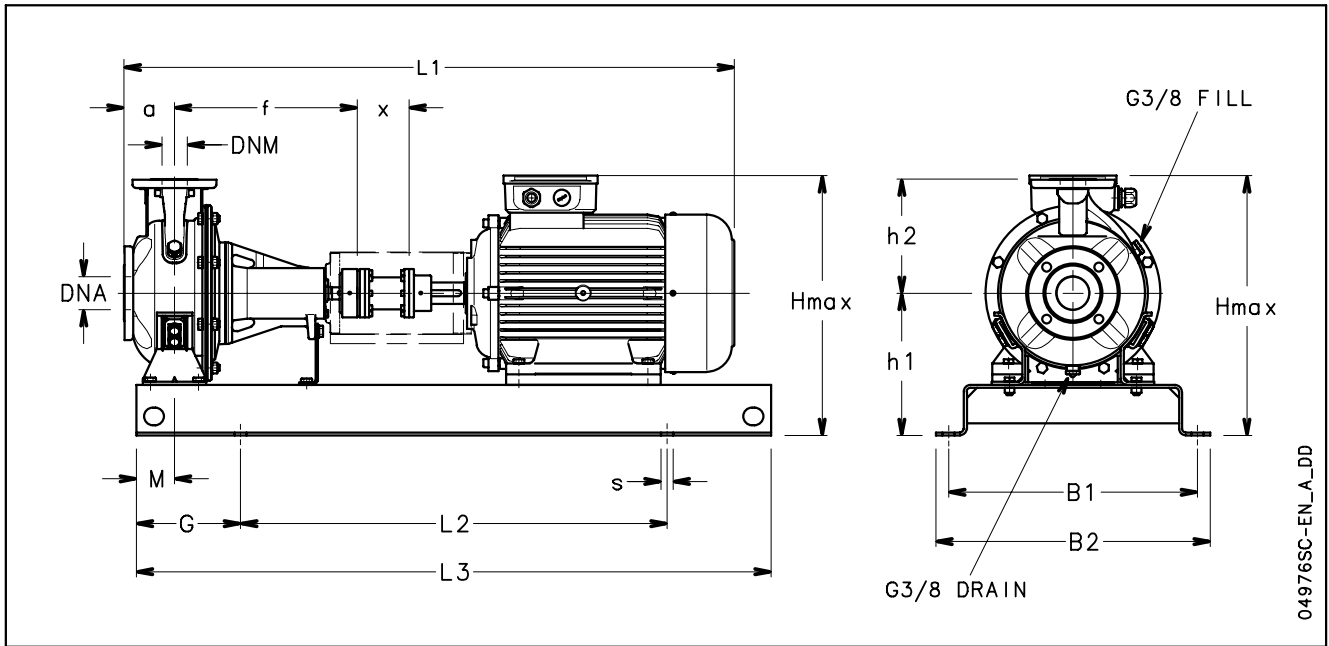
PUMP TYPE	DIMENSIONS (mm)													s FOR SCREWS	WEIGHT kg	COUPLING TYPE
	DNM	DNA	a	B1	B2	L1	L2	L3	G	M	h1	h2	Hmax			
SHF4 25-125/02A	25	50	80	320	360	704	540	800	130	60	212	140	352	M16	72	A1
SHF4 25-125/02	25	50	80	320	360	704	540	800	130	60	212	140	352	M16	72	A1
SHF4 25-160/02	25	50	80	320	360	704	540	800	130	60	232	160	392	M16	74	A1
SHF4 25-160/03	25	50	80	320	360	704	540	800	130	60	232	160	392	M16	74	A1
SHFE4 25-200/03	25	50	80	320	360	704	540	800	130	60	260	180	440	M16	78	A1
SHF4 25-200/05	25	50	80	320	360	746	540	800	130	60	260	180	440	M16	80	A2
SHF4 25-250/07	25	50	100	400	450	766	660	1000	170	75	280	225	505	M20	97	A2
SHF4 25-250/11	25	50	100	400	450	811	660	1000	170	75	280	225	505	M20	106	A3
SHF4 25-250/15	25	50	100	400	450	811	660	1000	170	75	280	225	505	M20	108	A3
SHF4 32-125/02A	32	50	80	320	360	704	540	800	130	60	212	140	352	M16	72	A1
SHF4 32-125/02	32	50	80	320	360	704	540	800	130	60	212	140	352	M16	72	A1
SHF4 32-160/02	32	50	80	320	360	704	540	800	130	60	232	160	392	M16	74	A1
SHF4 32-160/03	32	50	80	320	360	704	540	800	130	60	232	160	392	M16	74	A1
SHFE4 32-200/03	32	50	80	320	360	704	540	800	130	60	260	180	440	M16	78	A1
SHF4 32-200/05	32	50	80	320	360	746	540	800	130	60	260	180	440	M16	80	A2
SHF4 32-250/07	32	50	100	400	450	766	660	1000	170	75	280	225	505	M20	97	A2
SHF4 32-250/11	32	50	100	400	450	811	660	1000	170	75	280	225	505	M20	106	A3
SHF4 32-250/15	32	50	100	400	450	811	660	1000	170	75	280	225	505	M20	108	A3
SHF4 40-125/02A	40	65	80	320	360	704	540	800	130	60	212	140	352	M16	57	A1
SHF4 40-125/02	40	65	80	320	360	704	540	800	130	60	212	140	352	M16	57	A1
SHF4 40-125/03	40	65	80	320	360	704	540	800	130	60	212	140	352	M16	58	A1
SHF4 40-160/03	40	65	80	320	360	704	540	800	130	60	232	160	392	M16	60	A1
SHF4 40-160/05	40	65	80	320	360	746	540	800	130	60	232	160	392	M16	62	A2
SHF4 40-200/07	40	65	100	350	390	766	600	900	150	60	260	180	440	M16	69	A2
SHF4 40-200/11	40	65	100	350	390	811	600	900	150	60	260	180	440	M16	78	A3
SHF4 40-250/11	40	65	100	400	450	811	660	1000	170	75	280	225	505	M20	105	A3
SHF4 40-250/15	40	65	100	400	450	811	660	1000	170	75	280	225	505	M20	108	A3
SHF4 40-250/22	40	65	100	400	450	888	660	1000	170	75	280	225	505	M20	131	B1
SHF4 50-125/03A	50	65	100	320	360	724	540	800	130	60	232	160	392	M16	59	A1
SHF4 50-125/03	50	65	100	320	360	724	540	800	130	60	232	160	392	M16	59	A1
SHF4 50-125/05	50	65	100	320	360	766	540	800	130	60	232	160	392	M16	61	A2
SHF4 50-160/07	50	65	100	350	390	766	600	900	150	60	260	180	440	M16	68	A2
SHF4 50-160/11	50	65	100	350	390	811	600	900	150	60	260	180	440	M16	77	A3
SHF4 50-200/11	50	65	100	350	390	811	600	900	150	60	260	200	460	M16	88	A3
SHF4 50-200/15	50	65	100	350	390	811	600	900	150	60	260	200	460	M16	91	A3
SHF4 50-250/22A	50	65	100	400	450	888	660	1000	170	75	280	225	505	M20	132	B1
SHF4 50-250/22	50	65	100	400	450	888	660	1000	170	75	280	225	505	M20	132	B1
SHF4 50-250/30	50	65	100	400	450	888	660	1000	170	75	280	225	505	M20	136	B1
SHF4 65-160/05	65	80	100	350	390	766	600	900	150	75	260	200	460	M16	84	A2
SHF4 65-160/07	65	80	100	350	390	766	600	900	150	75	260	200	460	M16	85	A2
SHF4 65-160/11A	65	80	100	400	450	811	600	1000	170	75	260	200	460	M20	94	A3
SHF4 65-160/11	65	80	100	400	450	811	660	1000	170	75	260	200	460	M20	94	A3
SHF4 65-160/15	65	80	100	400	450	811	660	1000	170	75	260	200	460	M20	97	A3
SHF4 65-200/15	65	80	100	400	450	811	660	1000	170	75	280	225	505	M20	109	A3
SHF4 65-200/22	65	80	100	440	490	888	740	1120	190	75	280	225	505	M20	133	B1
SHF4 65-200/30	65	80	100	440	490	888	740	1120	190	75	280	225	505	M20	137	B1
SHF4 65-250/40	65	80	100	440	490	1031	740	1120	190	90	310	250	550	M20	178	C3
SHF4 65-250/55	65	80	100	440	490	1058	740	1120	190	90	310	250	550	M20	193	C4
SHF4 80-160/15	80	100	125	400	450	836	660	1000	170	75	280	225	505	M20	127	A3
SHF4 80-160/22A	80	100	125	440	490	913	740	1120	190	75	280	225	505	M20	143	B1
SHF4 80-160/22	80	100	125	440	490	913	740	1120	190	75	280	225	505	M20	143	B1
SHF4 80-200/30	80	100	125	440	490	1023	740	1120	190	75	280	250	530	M20	162	C3
SHF4 80-200/40	80	100	125	440	490	1056	740	1120	190	75	280	250	530	M20	171	C3
SHF4 80-250/55	80	100	125	490	540	1083	840	1250	205	90	310	280	590	M20	194	C4
SHF4 80-250/75	80	100	125	490	540	1083	840	1250	205	90	310	280	590	M20	198	C4
SHF4 80-250/110	80	100	125	490	540	1202	840	1250	205	90	310	280	590	M20	256	C5



# ITT

# Lowara

## SHF SC SERIES MOUNTED ON BASE DIMENSIONS AND WEIGHTS



**SHF SC SERIES MOUNTED ON BASE  
DIMENSIONS AND WEIGHTS**

PUMP TYPE	DIMENSIONS (mm)															s FOR SCREWS	WEIGHT kg	COUPLING TYPE
	DNM	DNA	a	B1	B2	L1	L2	L3	G	M	h1	h2	Hmax	f	x			
SHF 32-125/07 SC	32	50	80	320	360	845	540	800	130	60	212	140	352	360	100	M16	67	A2S
SHF 32-125/11 SC	32	50	80	320	360	845	540	800	130	60	212	140	352	360	100	M16	69	A2S
SHF 32-160/15 SC	32	50	80	350	390	889	600	900	150	60	232	160	392	360	100	M16	75	A3S
SHF 32-160/22 SC	32	50	80	350	390	889	600	900	150	60	232	160	392	360	100	M16	77	A3S
SHF 32-200/30 SC	32	50	80	350	390	920	600	900	150	60	260	180	440	360	100	M16	97	B1S
SHF 32-200/40 SC	32	50	80	350	390	923	600	900	150	60	260	180	440	360	100	M16	99	B1S
SHF 32-250/55 SC	32	50	100	440	490	1007	740	1120	190	75	280	225	505	360	100	M20	132	C1S
SHF 32-250/75 SC	32	50	100	440	490	1007	740	1120	190	75	280	225	505	360	100	M20	136	C1S
SHF 32-250/110 SC	32	50	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	183	C2S
SHF 40-125/11 SC	40	65	80	350	390	845	600	900	150	60	212	140	352	360	100	M16	70	A2S
SHF 40-125/15 SC	40	65	80	350	390	889	600	900	150	60	212	140	352	360	100	M16	76	A3S
SHF 40-125/22 SC	40	65	80	350	390	889	600	900	150	60	212	140	352	360	100	M16	79	A3S
SHF 40-160/30 SC	40	65	80	350	390	920	600	900	150	60	232	160	392	360	100	M16	94	B1S
SHF 40-160/40 SC	40	65	80	350	390	923	600	900	150	60	232	160	400	360	100	M16	98	B1S
SHF 40-200/55 SC	40	65	100	400	450	1007	660	1000	170	60	260	180	451	360	100	M20	125	C1S
SHF 40-200/75 SC	40	65	100	400	450	1007	660	1000	170	60	260	180	451	360	100	M20	130	C1S
SHF 40-250/110A SC	40	65	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	169	C2S
SHF 40-250/110 SC	40	65	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	172	C2S
SHF 40-250/150 SC	40	65	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	177	C2S
SHF 50-125/22 SC	50	65	100	350	390	909	600	900	150	60	232	160	392	360	100	M16	86	A3S
SHF 50-125/30 SC	50	65	100	350	390	940	600	900	150	60	232	160	392	360	100	M16	94	B1S
SHF 50-125/40 SC	50	65	100	350	390	943	600	900	150	60	232	160	400	360	100	M16	97	B1S
SHF 50-160/55 SC	50	65	100	400	450	1007	660	1000	170	60	260	180	451	360	100	M20	122	C1S
SHF 50-160/75 SC	50	65	100	400	450	1007	660	1000	170	60	260	180	451	360	100	M20	124	C1S
SHF 50-200/110A SC	50	65	100	440	490	1164	740	1120	190	60	260	200	500	360	100	M20	147	C2S
SHF 50-200/110 SC	50	65	100	440	490	1164	740	1120	190	60	260	200	500	360	100	M20	152	C2S
SHF 50-250/150 SC	50	65	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	167	C2S
SHF 50-250/185 SC	50	65	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	172	C2S
SHF 50-250/220 SC	50	65	100	490	540	1208	840	1250	205	75	280	225	538	360	100	M20	182	D1S
SHF 65-160/40 SC	65	80	100	400	450	943	660	1000	170	75	260	200	460	360	100	M20	135	B1S
SHF 65-160/55 SC	65	80	100	440	490	1007	740	1120	190	75	260	200	460	360	100	M20	152	C1S
SHF 65-160/75 SC	65	80	100	440	490	1007	740	1120	190	75	260	200	460	360	100	M20	156	C1S
SHF 65-160/110A SC	65	80	100	490	540	1164	840	1250	205	75	260	200	500	360	100	M20	164	C2S
SHF 65-160/110 SC	65	80	100	490	540	1164	840	1250	205	75	260	200	500	360	100	M20	164	C2S
SHF 65-200/150 SC	65	80	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	187	C2S
SHF 65-200/185 SC	65	80	100	490	540	1164	840	1250	205	75	280	225	520	360	100	M20	192	C2S
SHF 65-200/220 SC	65	80	100	490	540	1208	840	1250	205	75	280	225	538	360	100	M20	210	D1S
SHF 65-250/300 SC	65	80	100	550	610	1433	940	1400	230	90	310	250	588	470	140	M24	274	E1S
SHF 65-250/370 SC	65	80	100	550	610	1433	940	1400	230	90	310	250	588	470	140	M24	299	E1S
SHF 80-160/110 SC	80	100	125	490	540	1189	840	1250	205	75	280	225	520	360	100	M20	200	C2S
SHF 80-160/150 SC	80	100	125	490	540	1189	840	1250	205	75	280	225	520	360	100	M20	211	C2S
SHF 80-160/185 SC	80	100	125	490	540	1189	840	1250	205	75	280	225	520	360	100	M20	222	C2S
SHF 80-200/220 SC	80	100	125	490	540	1343	840	1250	205	75	280	250	538	470	100	M20	238	D2S
SHF 80-200/300 SC	80	100	125	550	610	1458	940	1400	230	75	310	250	588	470	140	M24	280	E1S
SHF 80-200/370 SC	80	100	125	550	610	1458	940	1400	230	75	310	250	588	470	140	M24	298	E1S
SHF 80-250/450 SC	80	100	125	550	610	1535	940	1400	230	90	365	280	663	470	140	M24	358	E1S
SHF 80-250/550 SC	80	100	125	600	660	1565	1060	1600	270	90	390	280	688	470	140	M24	399	F1S
SHF 80-250/750 SC	80	100	125	670	730	1695	1200	1800	300	90	420	280	780	470	140	M24	411	G1S