



GIS & GISO Series End Suction Pumps

Technical Bulletin 2019

GISO End Suction Centrifugal Pump - Technical Sales Data

Goulds Water Technology is renowned for manufacturing the highest quality pumping equipment utilizing the best engineering practices available worldwide. The GISO / GIS series back pull out, foot mounted centrifugal pump is no exception. The single stage end suction pump has been designed with latest CAD (Computer Aided Design) and CFD (Computational Fluid Dynamics) and is in accordance with the international standard ISO 2858. This highly efficient and flexible design makes the GISO / GIS series pump ideal for a wide range of pumping applications, from water supply and irrigation to mining and building services.

Design Versions

The pump comes in two designs:-

- **GISO** frame mount series is suitable for long coupled
- **GIS** Stub shaft series is suitable for direct attachment to 2 or 4 pole IEC frame motors.

The standard horizontal configuration units have a vertical centerline discharge.

Pumped Liquid

Designed for non-combustible, low viscosity liquids, free of solids, abrasive materials and fibers.

Various liquid chemical compositions are capable of being pumped through the use of a variety of construction materials and seal options (Refer to materials listed below).

Construction Material

The “ GISO ” pumps (1# to 4# bracket frame)/GIS come with cast iron casing wet end, SS304 impeller, bronze Wear rings and SS420 shaft as standard configuration;

The “ GISO ” pumps (5# bracket frame) come with cast iron casing wet end, bronze impeller, bronze wear rings and SS420 shaft as standard configuration;

In order to suit a wider range of applications, the GISO/GIS series of pump casing are also available in the following materials:

- EN-GJL250 Cast Iron
- EN-GJS450-10 Ductile Iron
- EN 1.4301/AISI304 (Stainless Steel 304)
- EN 1.4401/AISI316 (Stainless Steel 316)

Shaft

Enlarged shaft to minimize deflection with tapered shaft keyed design ensuring positive locking when in operation and ease of impeller removal whilst servicing. But for the GISO pumps of 5# bracket frame its shaft extension for impeller is cylindrical shaft.

Shaft Sealing

Wide ranges of sealing solutions are available for the GISO / GIS series. The standard seal consists of carbon rotating face and ceramic stationary face with EPDM elastomers. For hot or abrasive applications, please contact your authorized Goulds Water Technology distributor.

Bearing Housing & Bearings

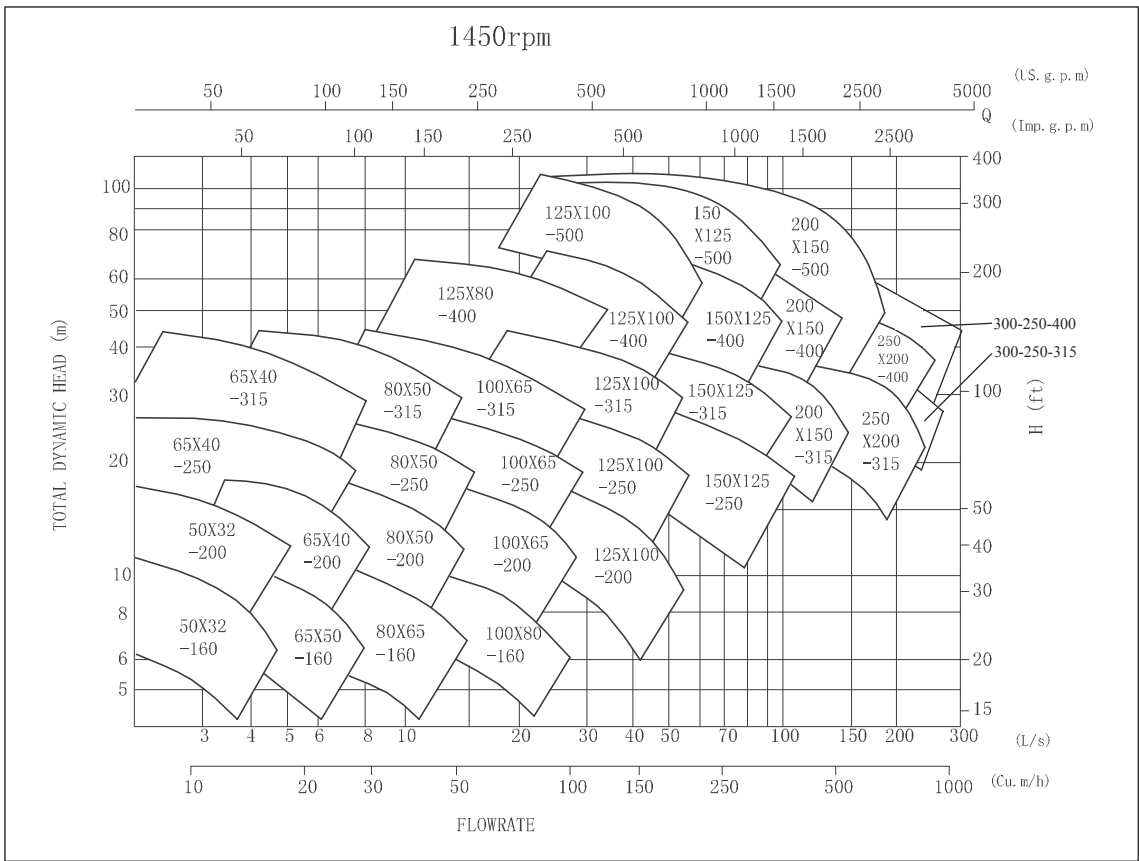
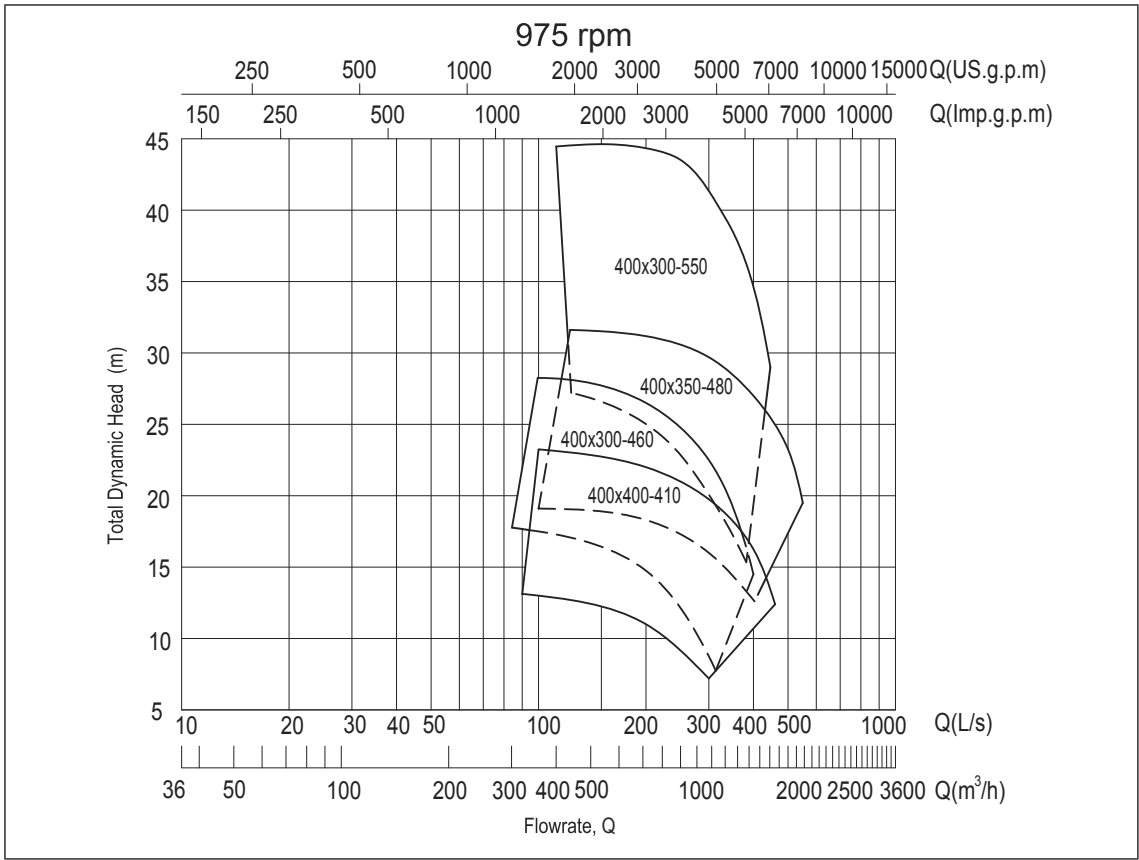
Features incorporated into the design of the GISO / GIS bearing housing makes it robust, reliable and easy to service. Standard features include a removable bearing cap on the non-drive end and lip seals fitted to both drive and non-drive ends in order to minimize the ingress of foreign liquids and materials. Bearings are normal bearings with pre-packed grease. The close coupled version has a cast iron motor adapter and robust drive shaft clamp for positive motor alignment and stability.

Operating Conditions

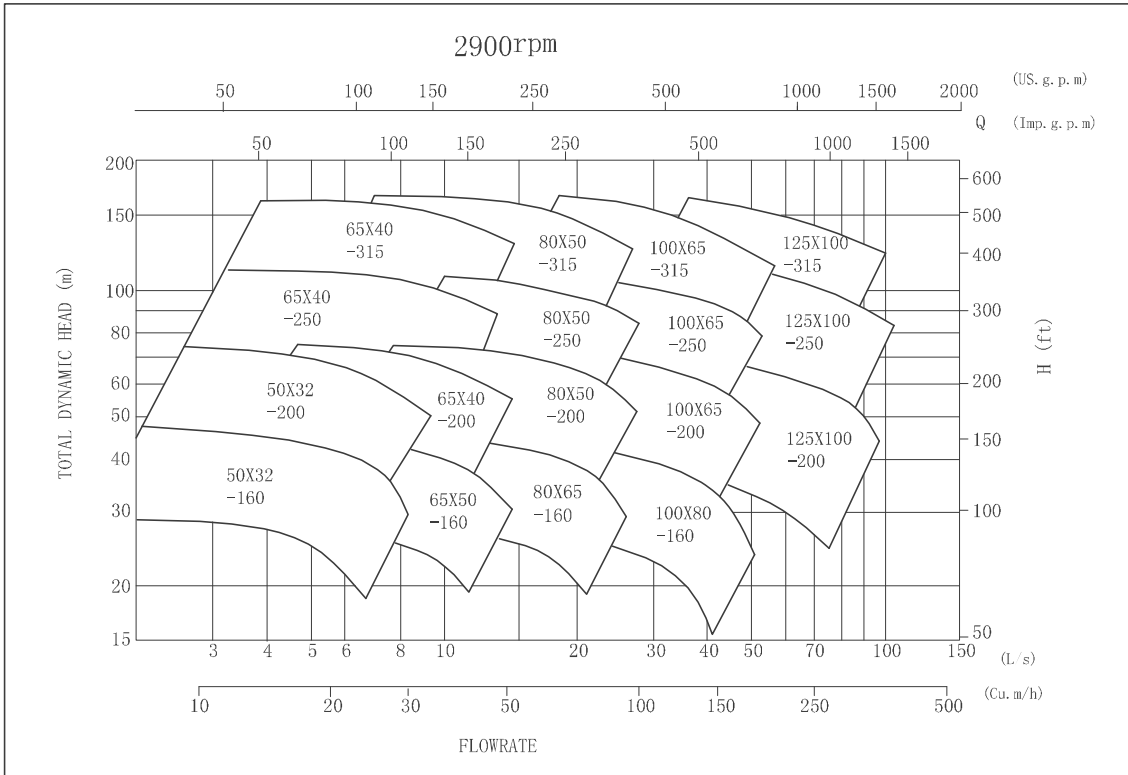
Flowrate:	Max. 2100 m ³ /hr
Pump Head:	Max. 160 meters
Liquid Temp:	15°C to 120°C (Standard Version)
Max Working Pressure:	160 Metres

Please note that Goulds Water Technology, in the interest of product development, may alter technical specifications without notice.

GISO End Suction Centrifugal Pump - 50HZ Performance Range

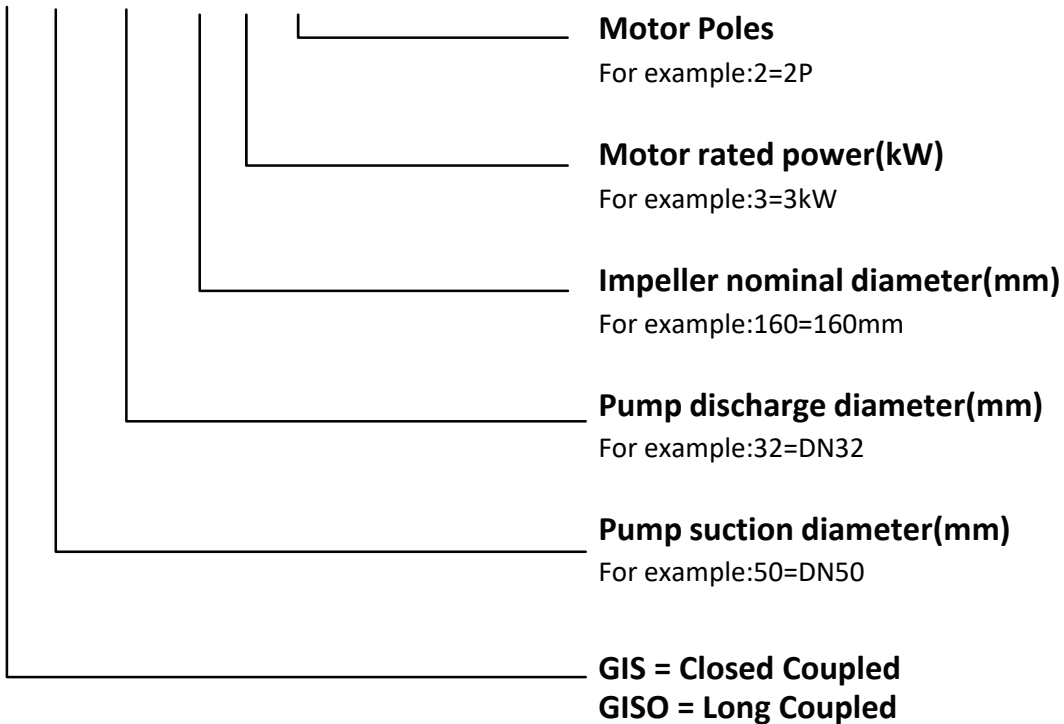


GISO End Suction Centrifugal Pump - 50HZ Performance Range



Model Description

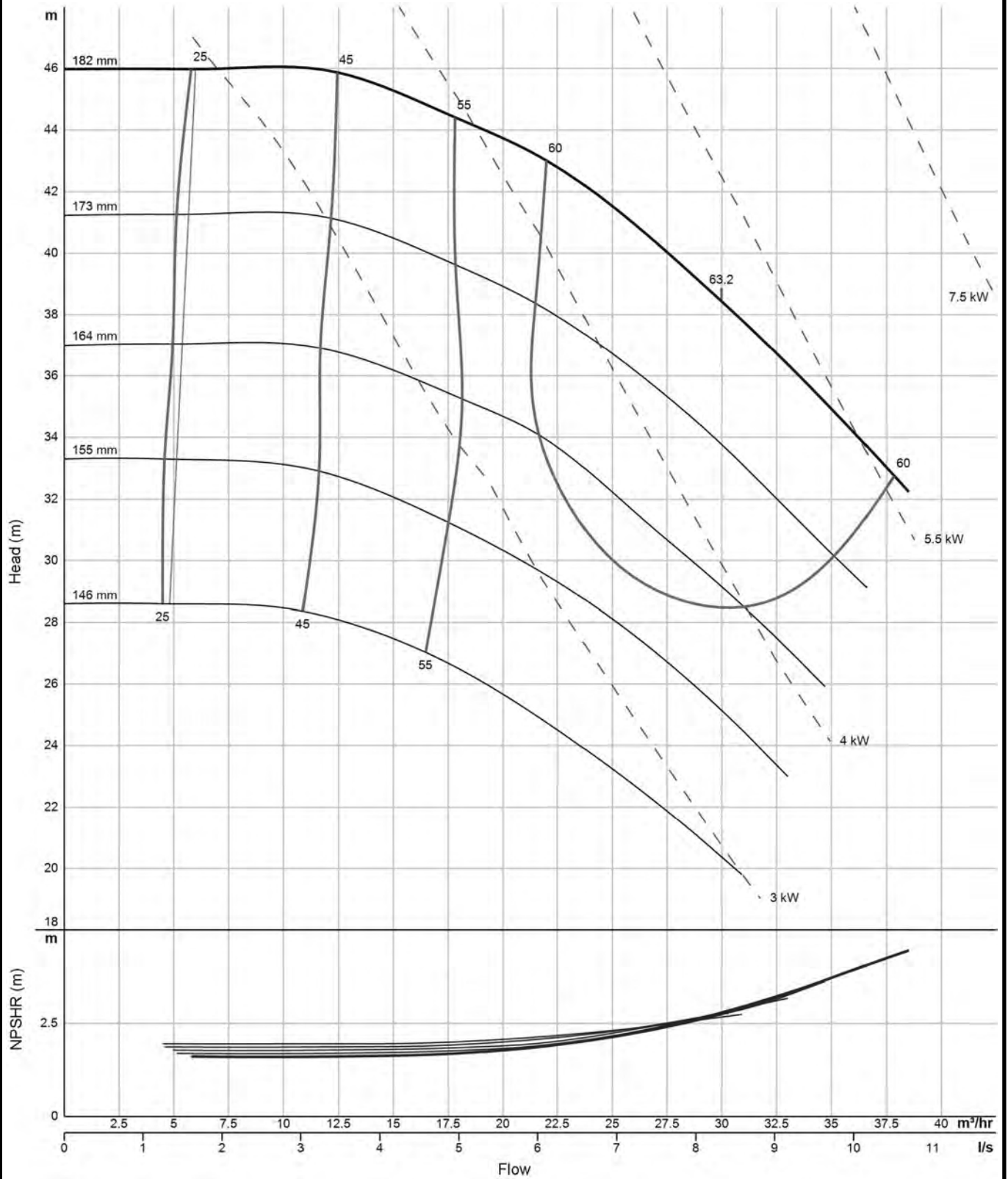
GIS50x32-160-3 / 2



50-32-160

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
3.0	146 mm	✓	✓
4.0	160 mm	✓	✓
5.5	180 mm	✓	✓
7.5	182 mm	✓	✓



Performance to ISO9906 Grade 2B

50-32-200

Nom Speed: - 2900Rpm

kW

7.5

11

Max Ø

202 mm

228 mm

GISO

✓

✓

GIS

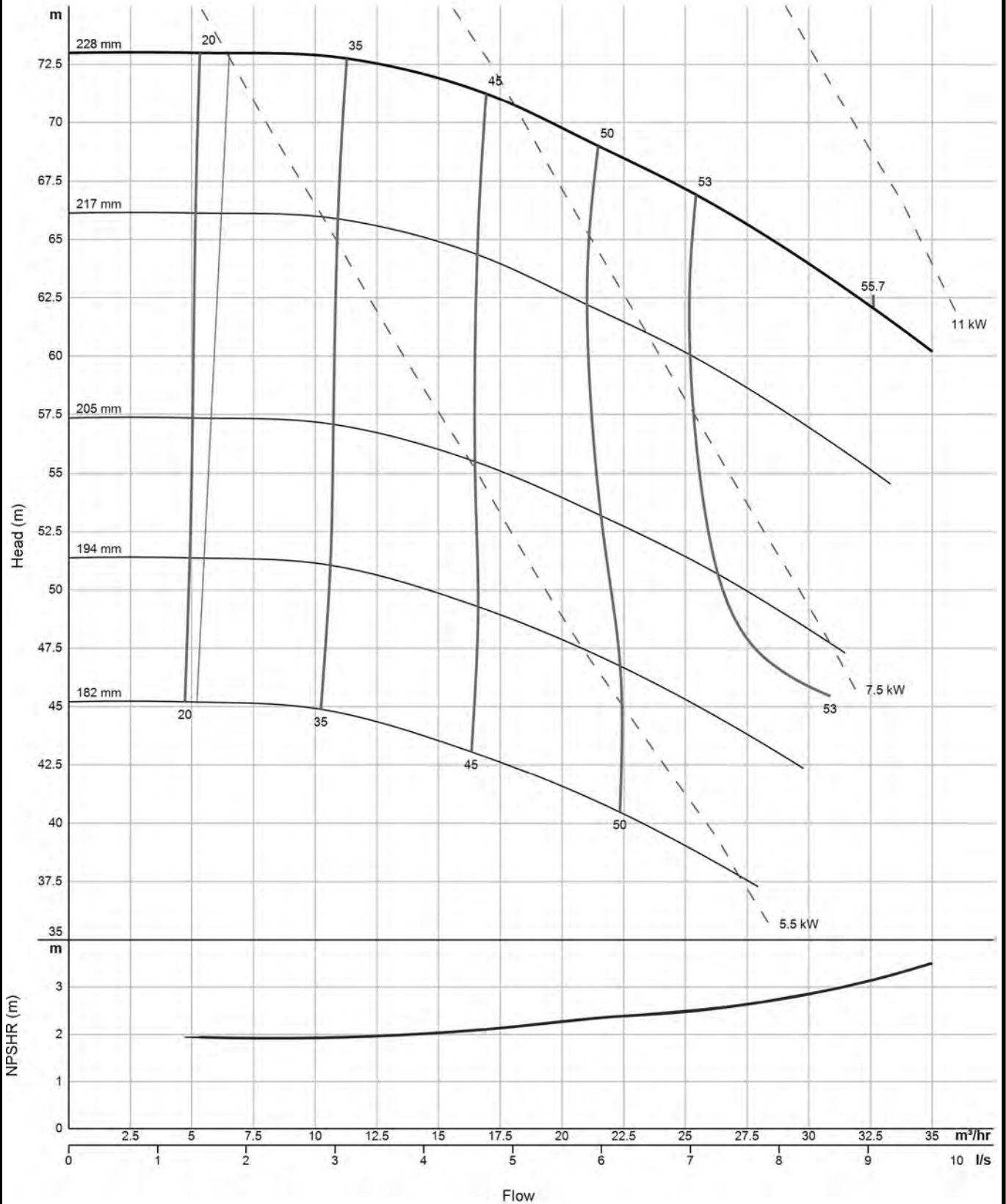
✓

✓



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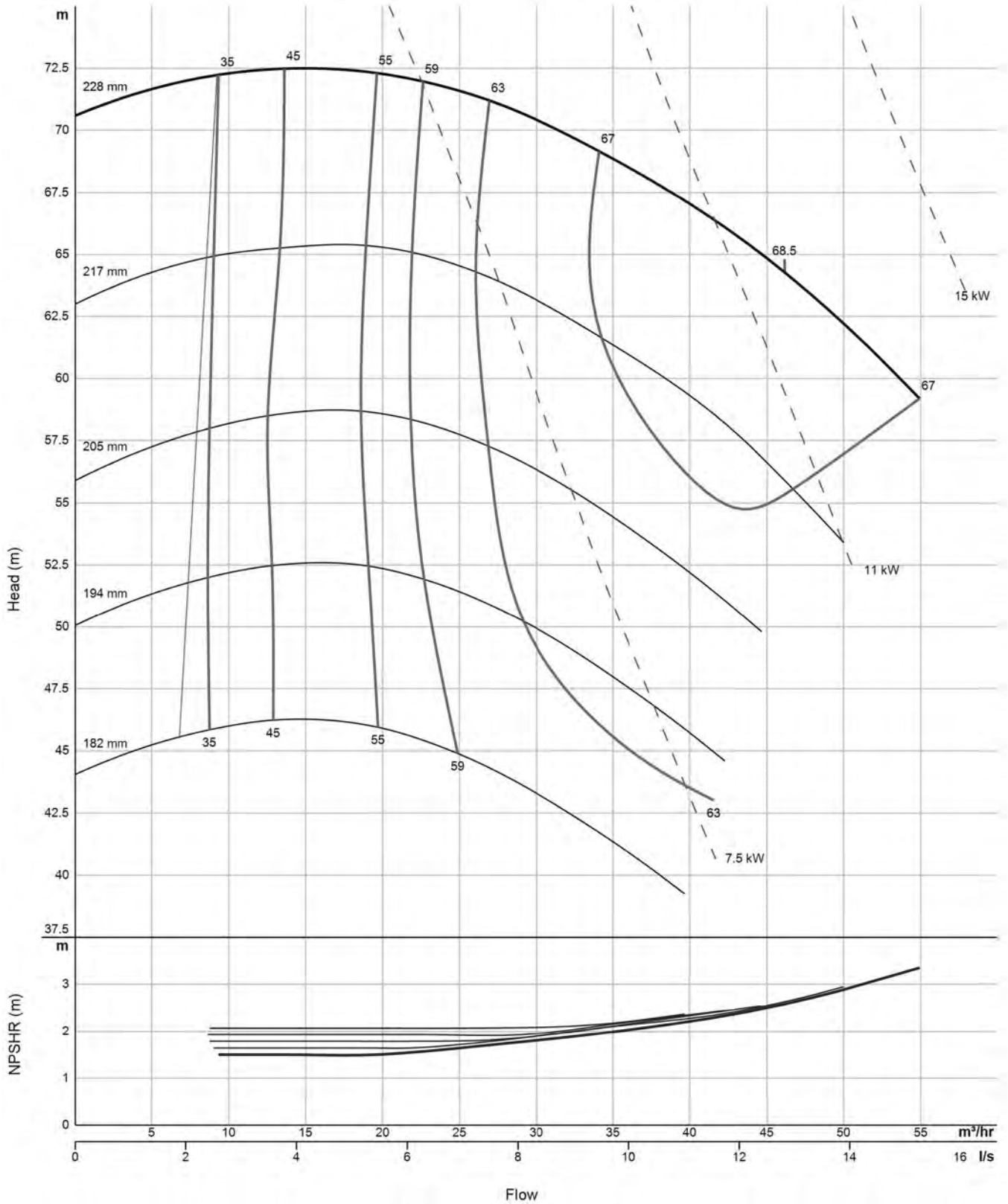


Performance to ISO9906 Grade 2B

65-40-200

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
7.5	187 mm	✓	✓
11	217 mm	✓	✓
15	228 mm	✓	✓

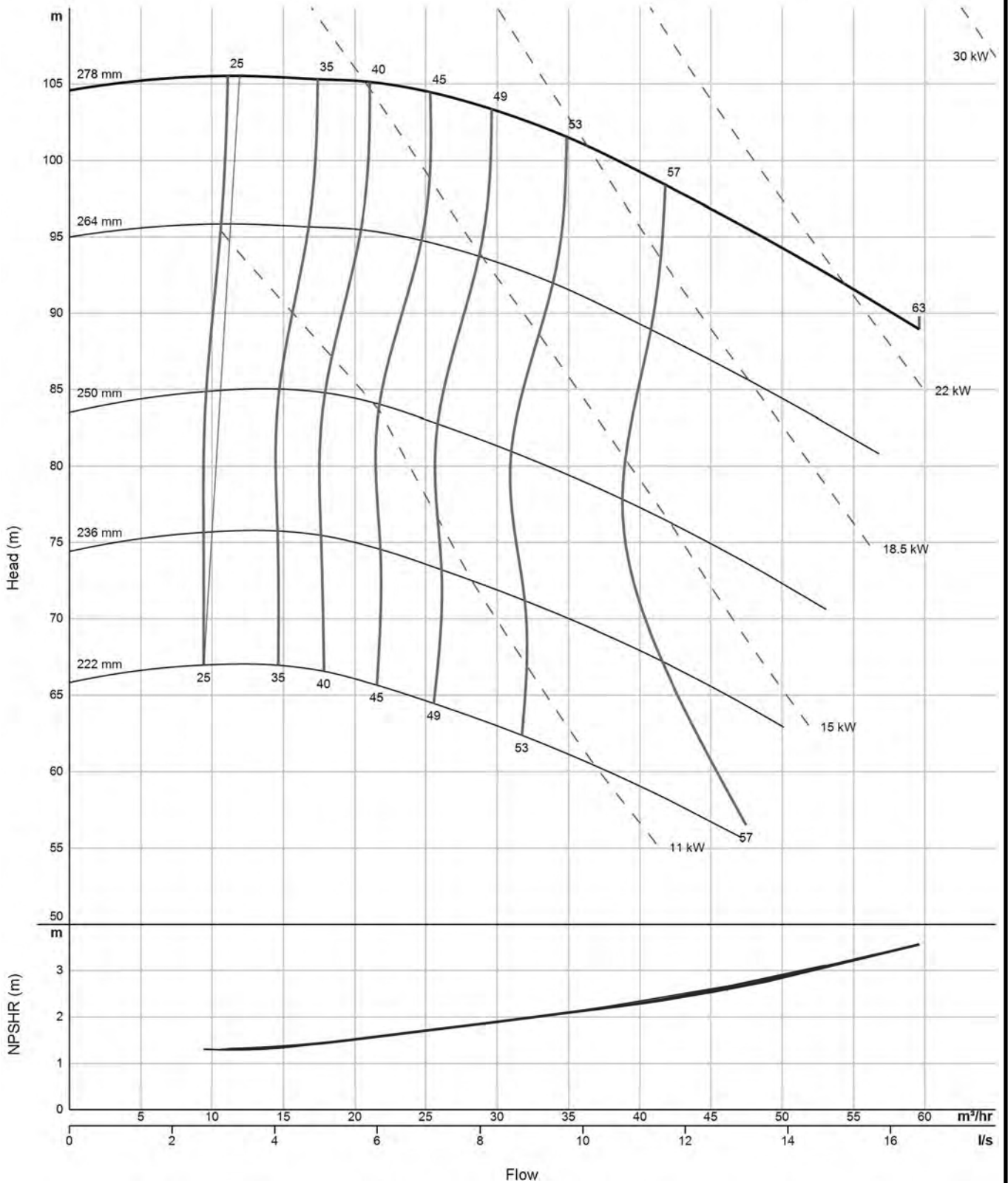


Performance to ISO9906 Grade 2B

65-40-250

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
15	238 mm	✓	✓
18.5	256 mm	✓	✓
22	274 mm	✓	✓
30	278 mm	✓	✓

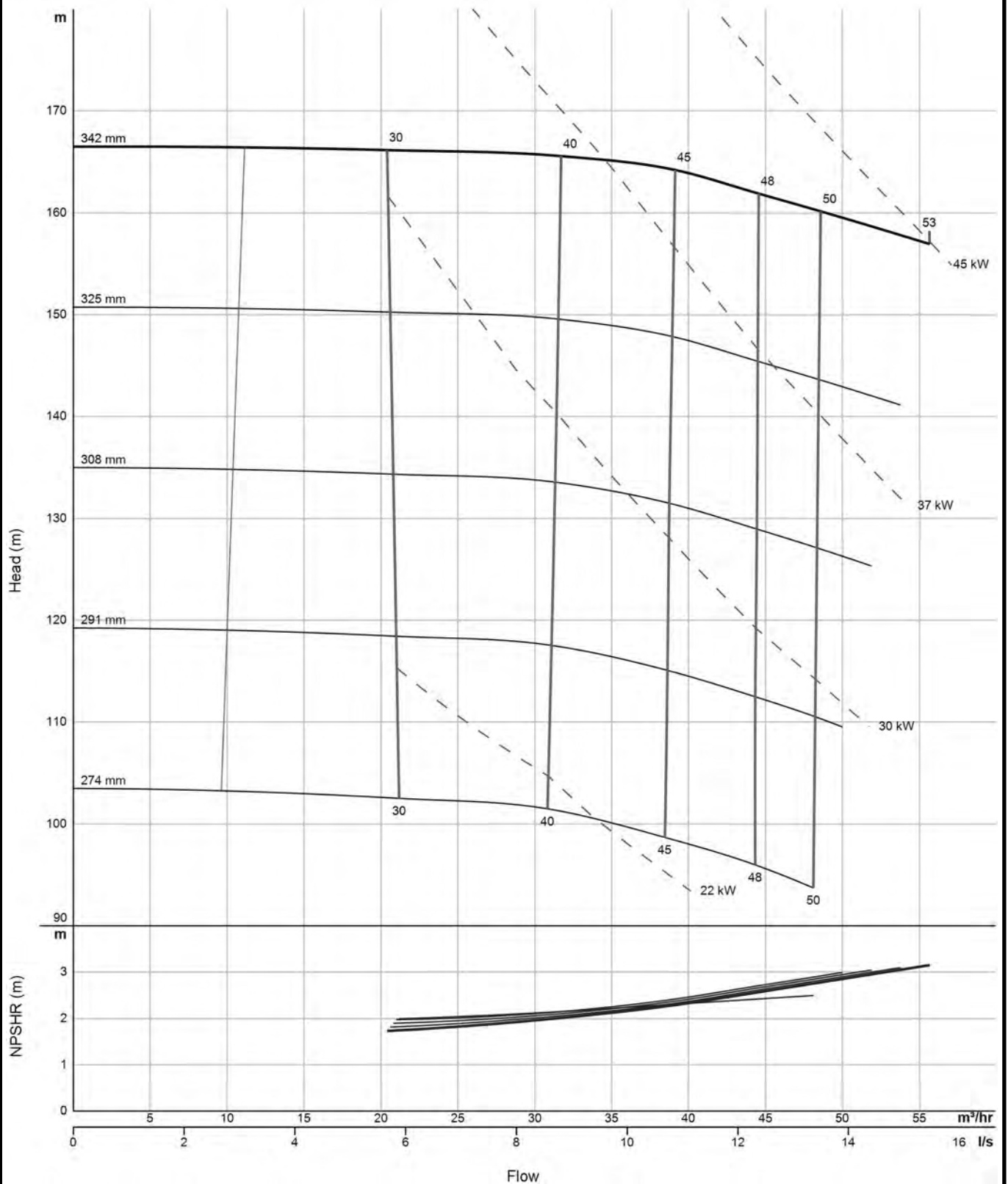


Performance to ISO9906 Grade 2B

65-40-315

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
30	292 mm	✓	✓
37	316 mm	✓	✓
45	342 mm	✓	✓

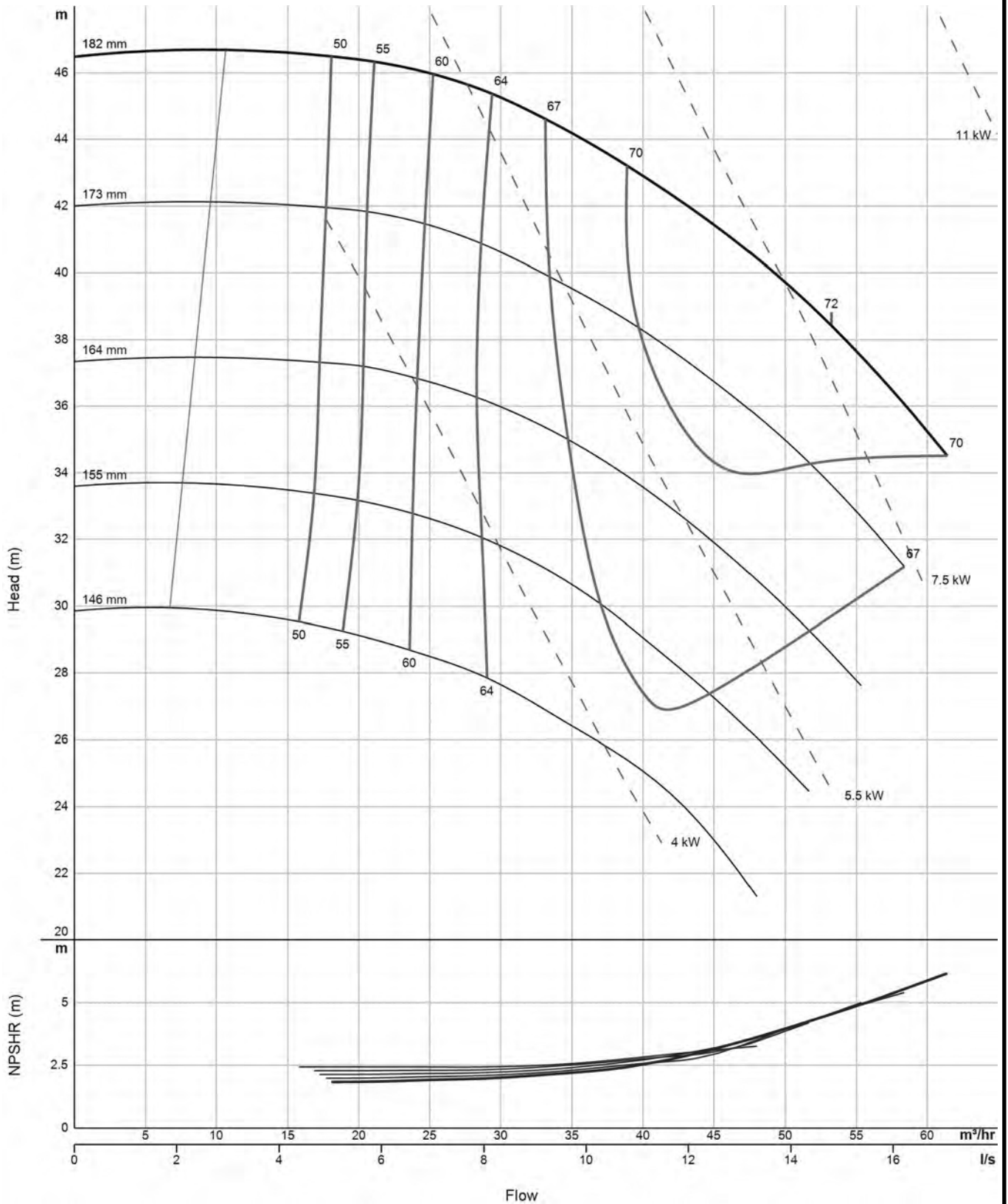


Performance to ISO9906 Grade 2B

65-50-160

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
5.5	156 mm	✓	✓
7.5	174 mm	✓	✓
11	182 mm	✓	✓

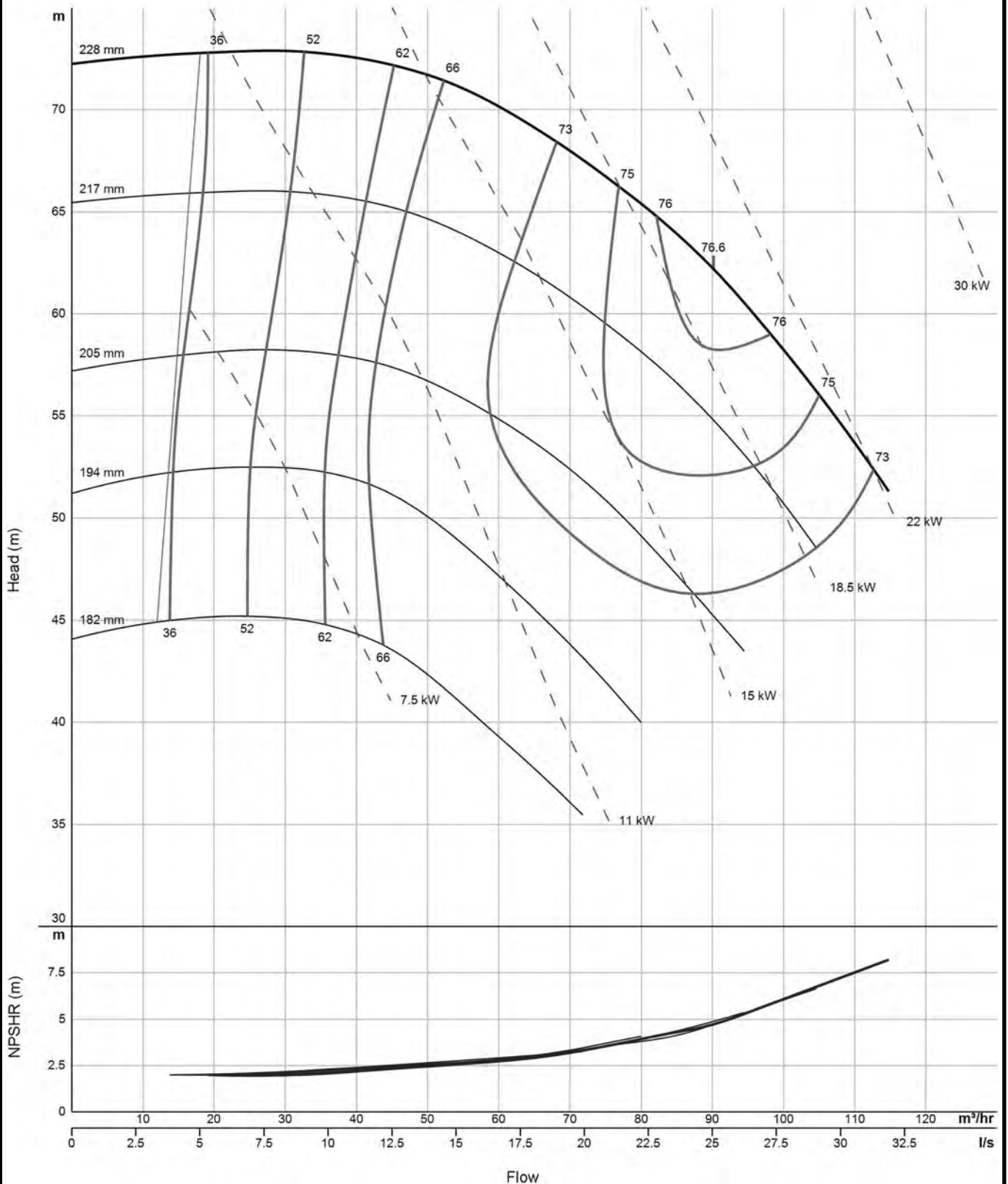


Performance to ISO9906 Grade 2B

80-50-200

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
11	184mm	✓	✓
15	202 mm	✓	✓
18.5	215 mm	✓	✓
22	228 mm	✓	✓

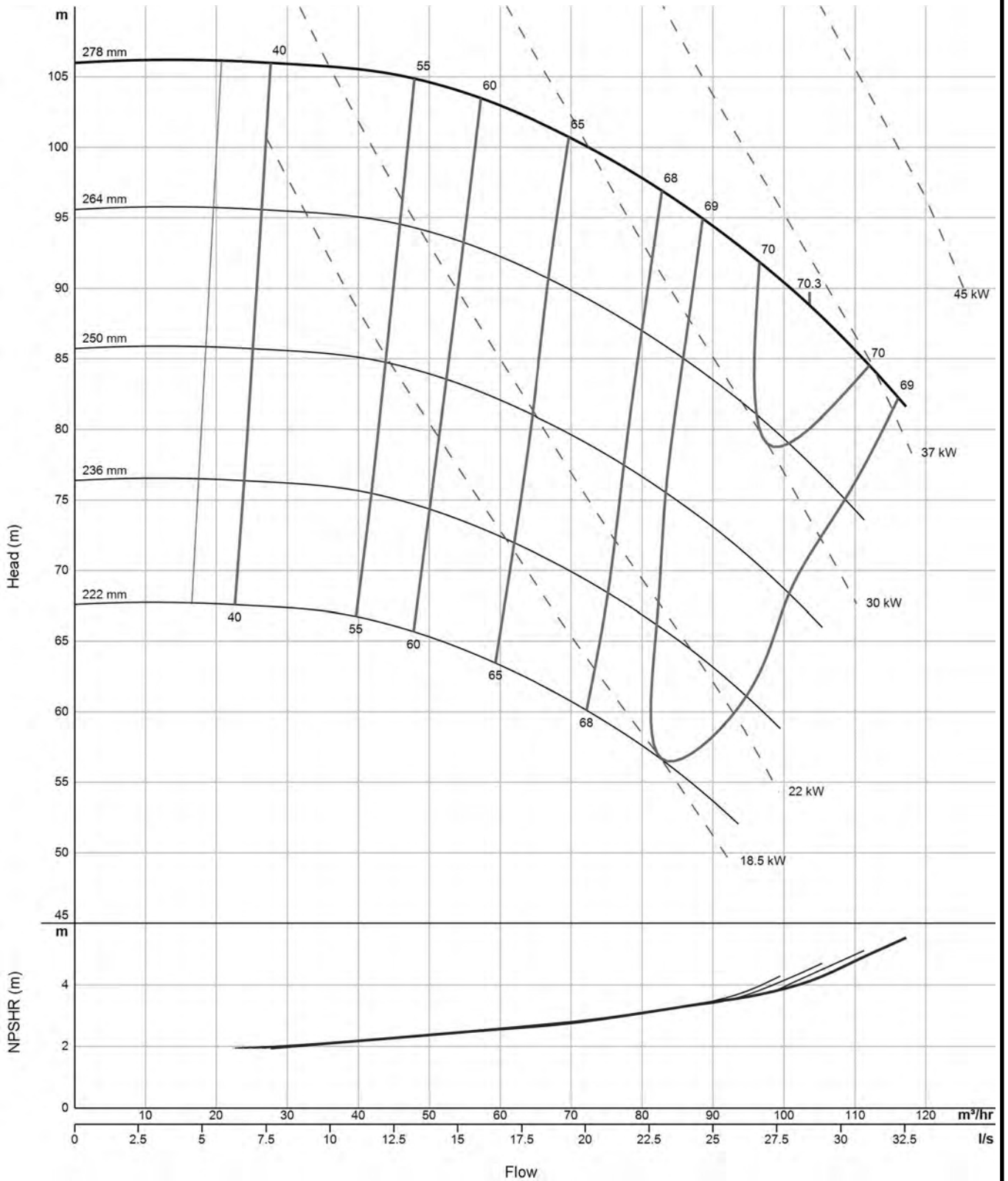


Performance to ISO9906 Grade 2B

80-50-250

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
22	230 mm	✓	✓
30	256 mm	✓	✓
37	274 mm	✓	✓
45	278 mm	✓	✓

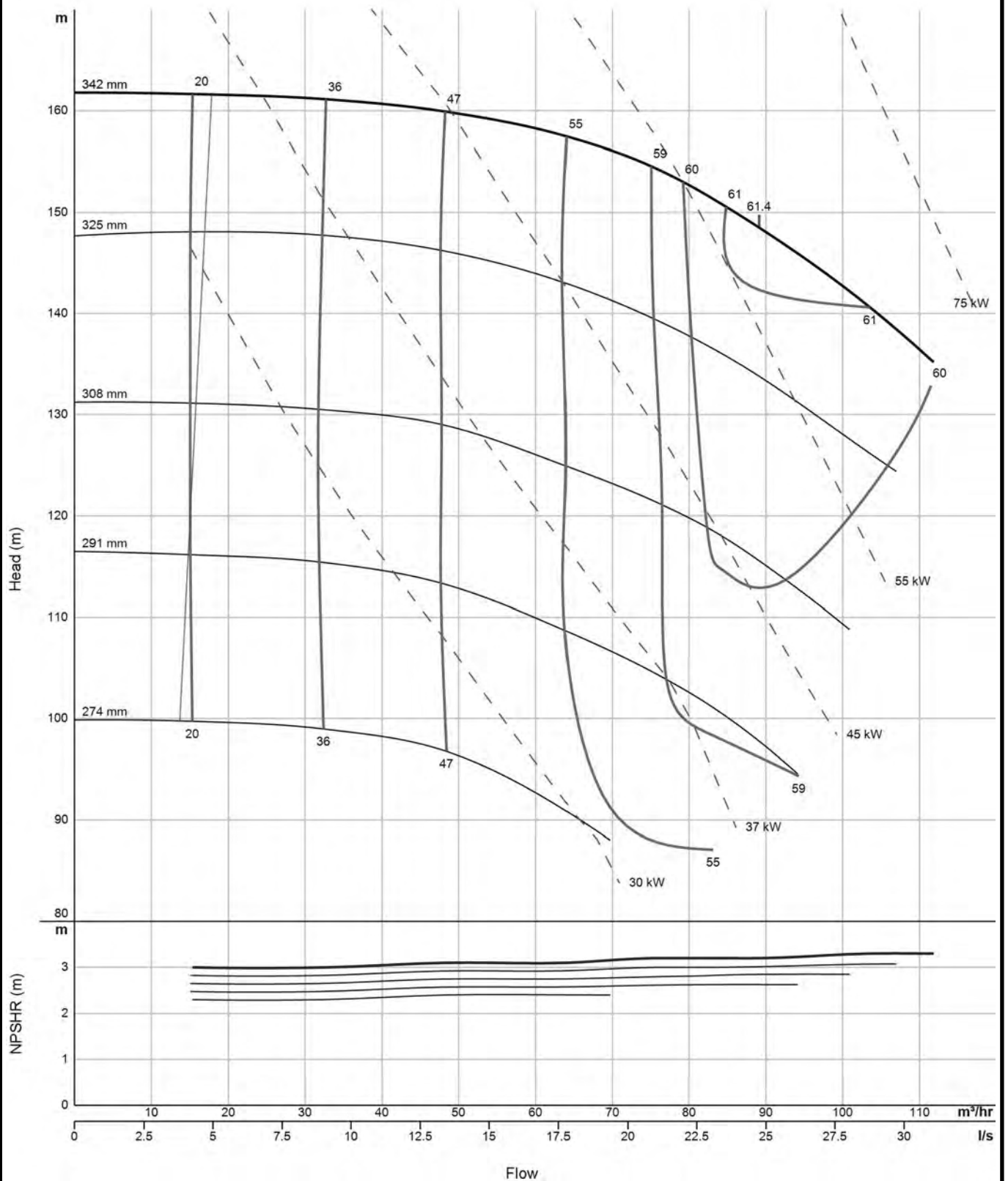


Performance to ISO9906 Grade 2B

80-50-315

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
37	284 mm	✓	✓
45	298 mm	✓	✓
55	316 mm	✓	✓
75	342 mm	✓	✓

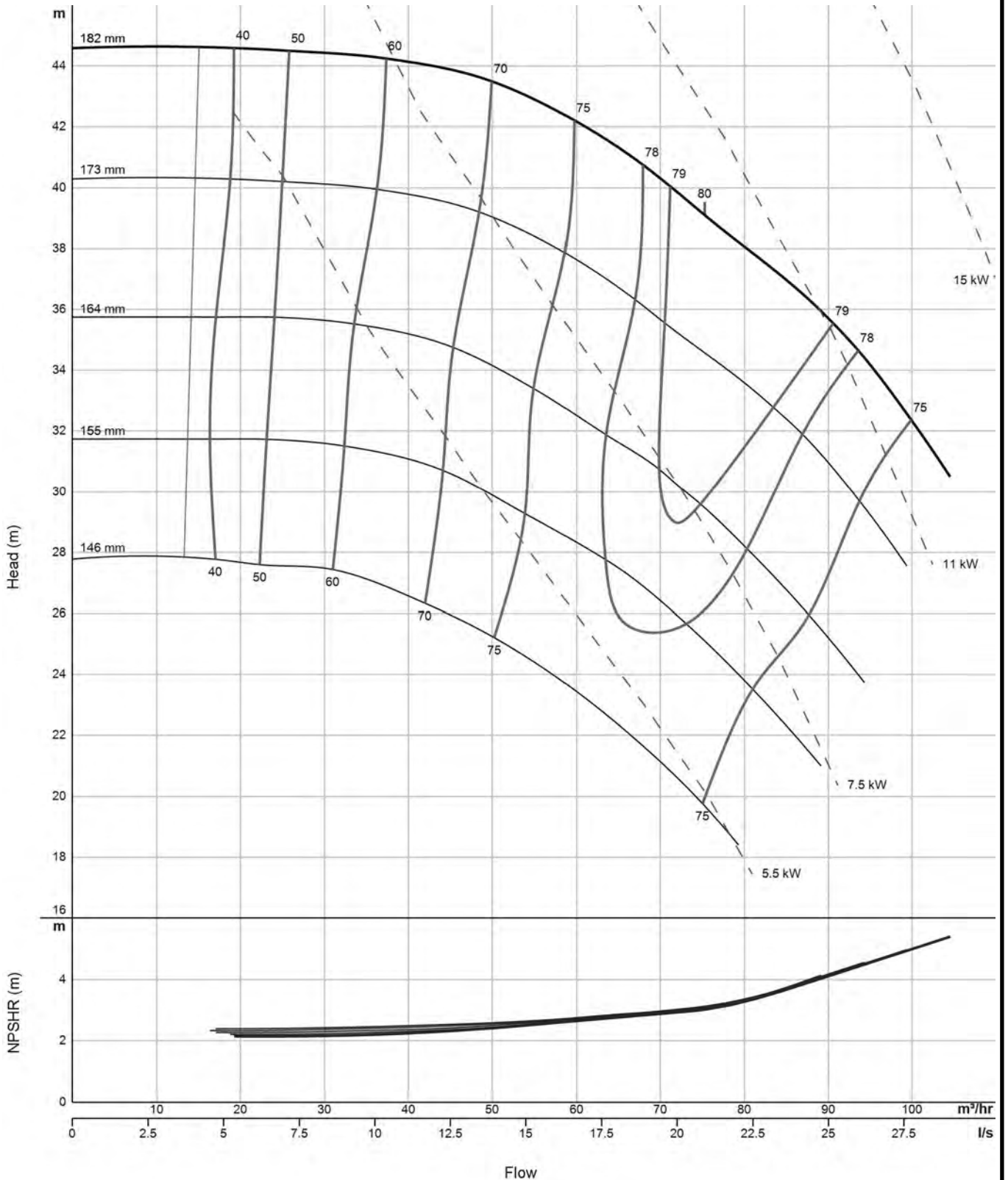


Performance to ISO9906 Grade 2B

80-65-160

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
5.5	146 mm	✓	✓
7.5	156 mm	✓	✓
11	176 mm	✓	✓
15	182 mm	✓	✓

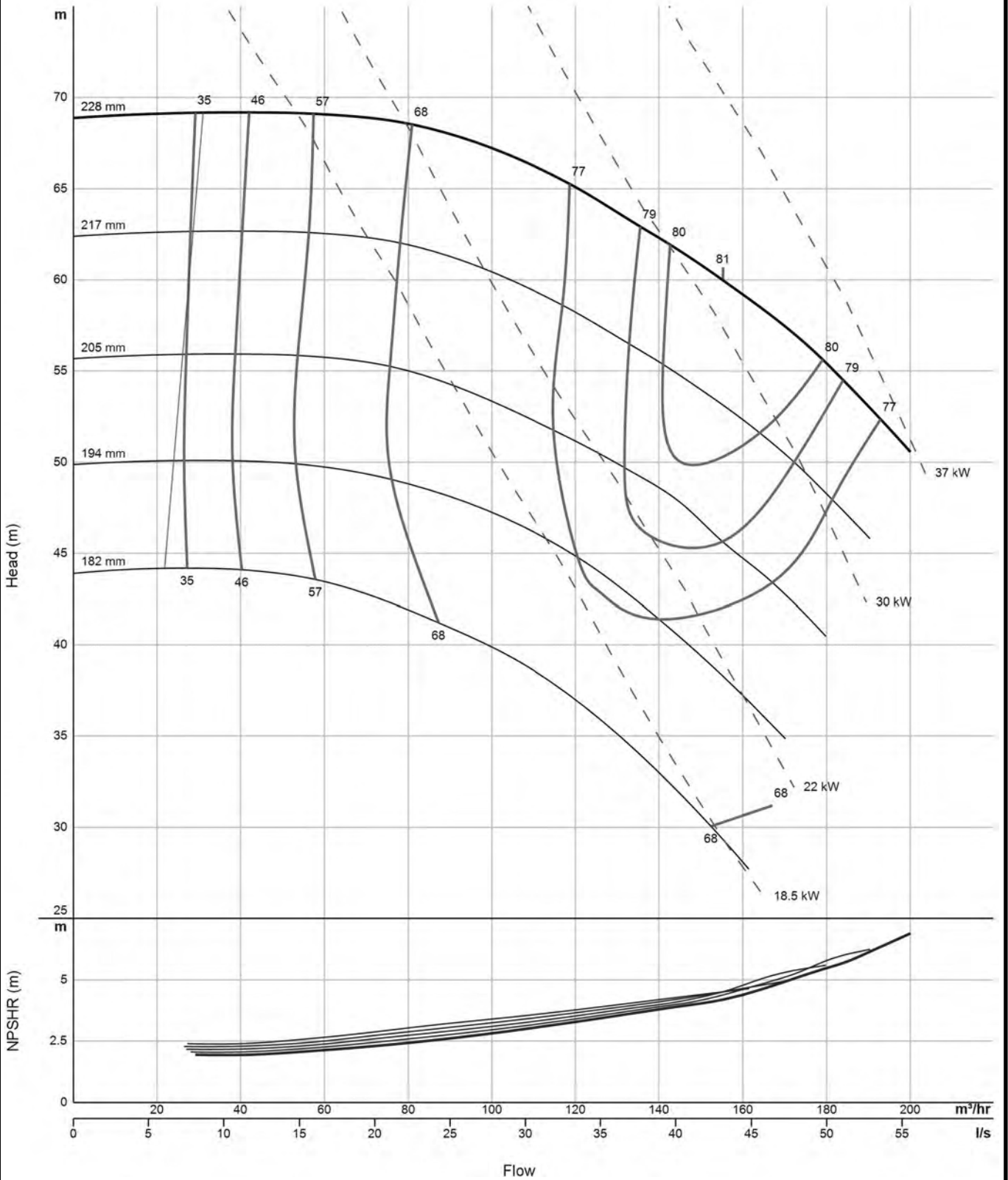


Performance to ISO9906 Grade 2B

100-65-200

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
18.5	182 mm	✓	✓
22	192 mm	✓	✓
30	212 mm	✓	✓
37	228 mm	✓	✓

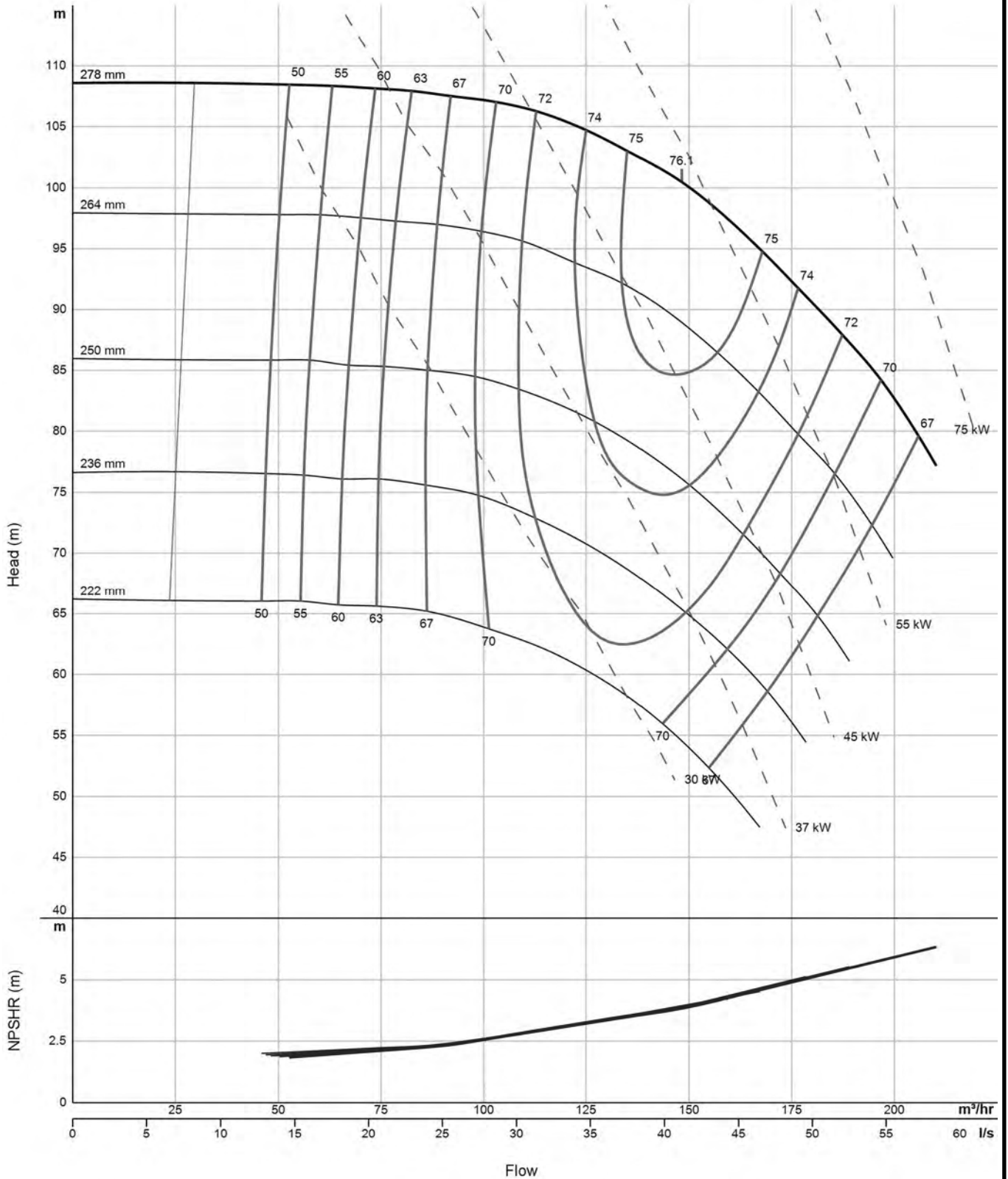


Performance to ISO9906 Grade 2B

100-65-250

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
37	226 mm	✓	✓
45	241 mm	✓	✓
55	258 mm	✓	✓
75	278 mm	✓	✓

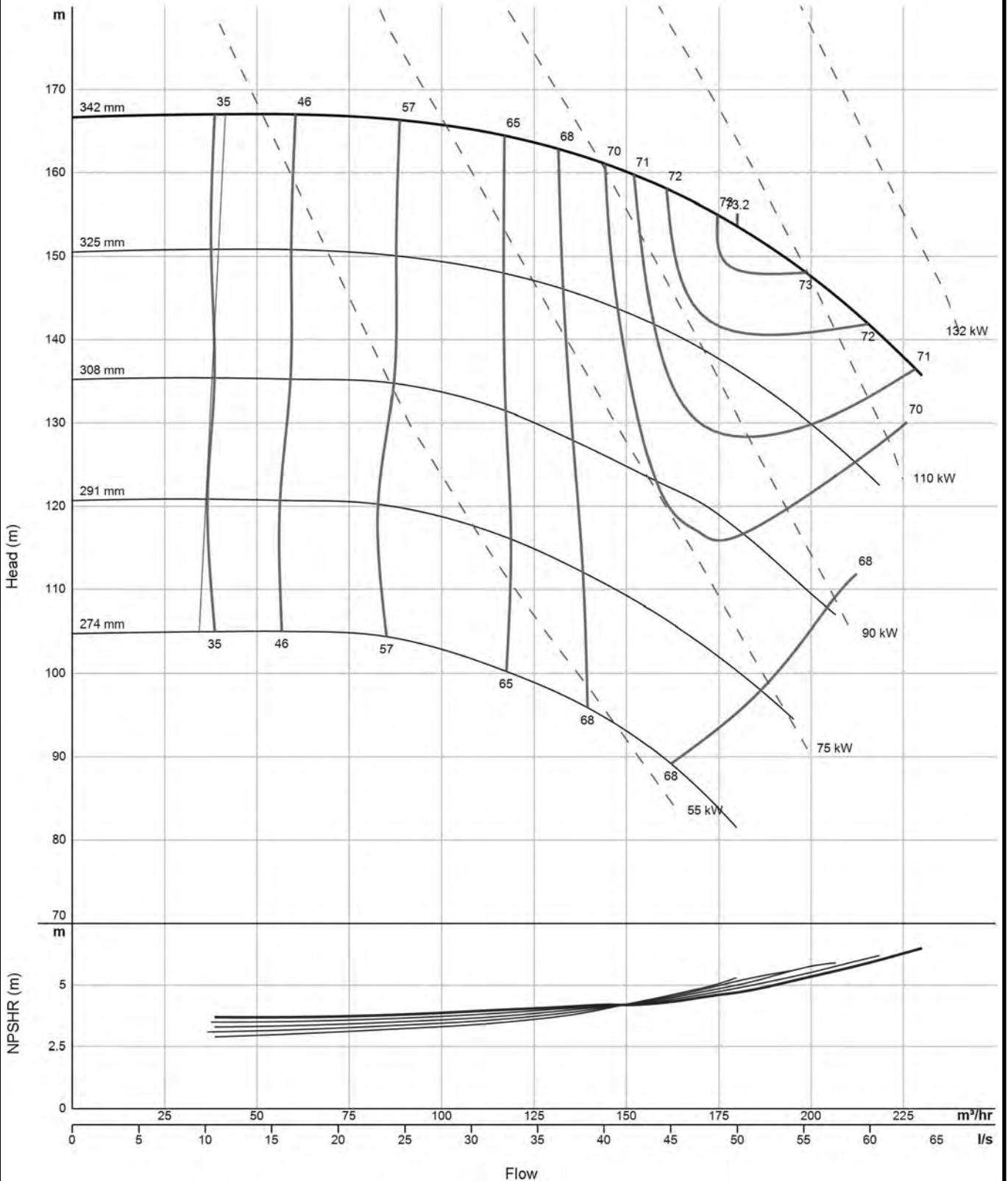


Performance to ISO9906 Grade 2B

100-65-315

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
75	290 mm	✓	✓
90	309 mm	✓	✓
110	331 mm	✓	✓
132	342 mm	✓	✗

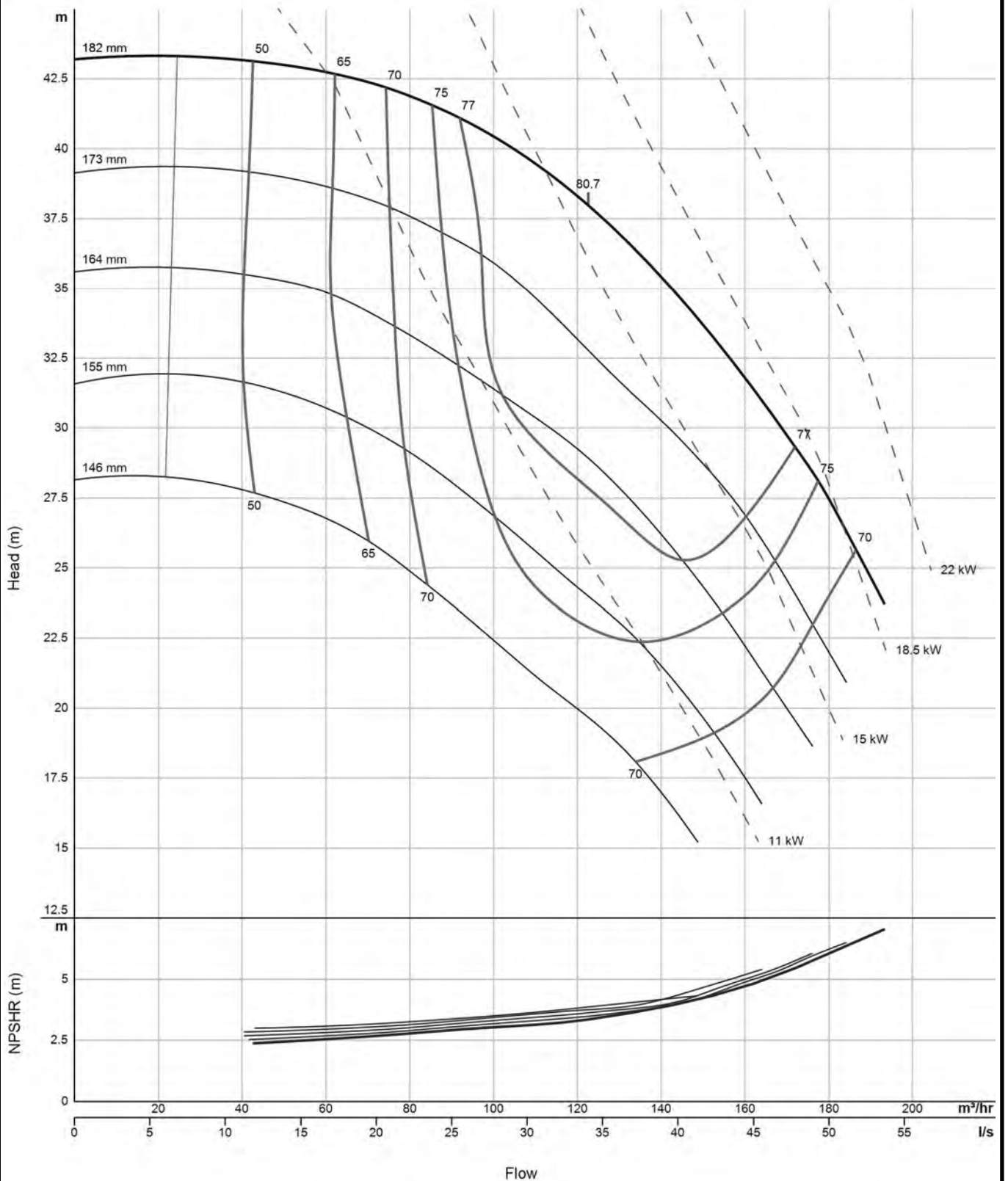


Performance to ISO9906 Grade 2B

100-80-160

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
11	152 mm	✓	✓
15	168 mm	✓	✓
18.5	180 mm	✓	✓
22	182 mm	✓	✓

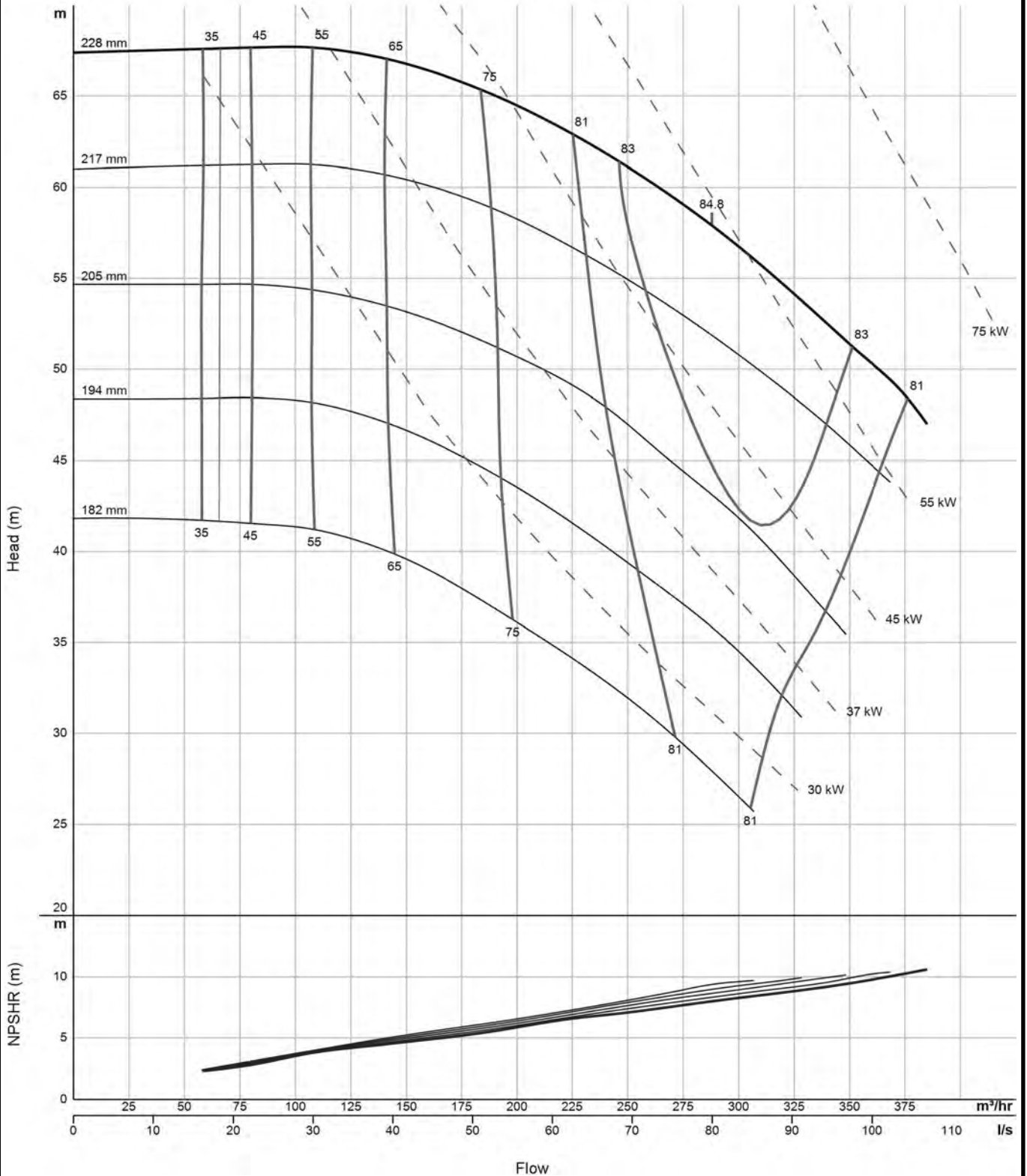


Performance to ISO9906 Grade 2B

125-100-200

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
30	187 mm	✓	✓
37	197 mm	✓	✓
45	208 mm	✓	✓
55	218 mm	✓	✓
75	228 mm	✓	✓

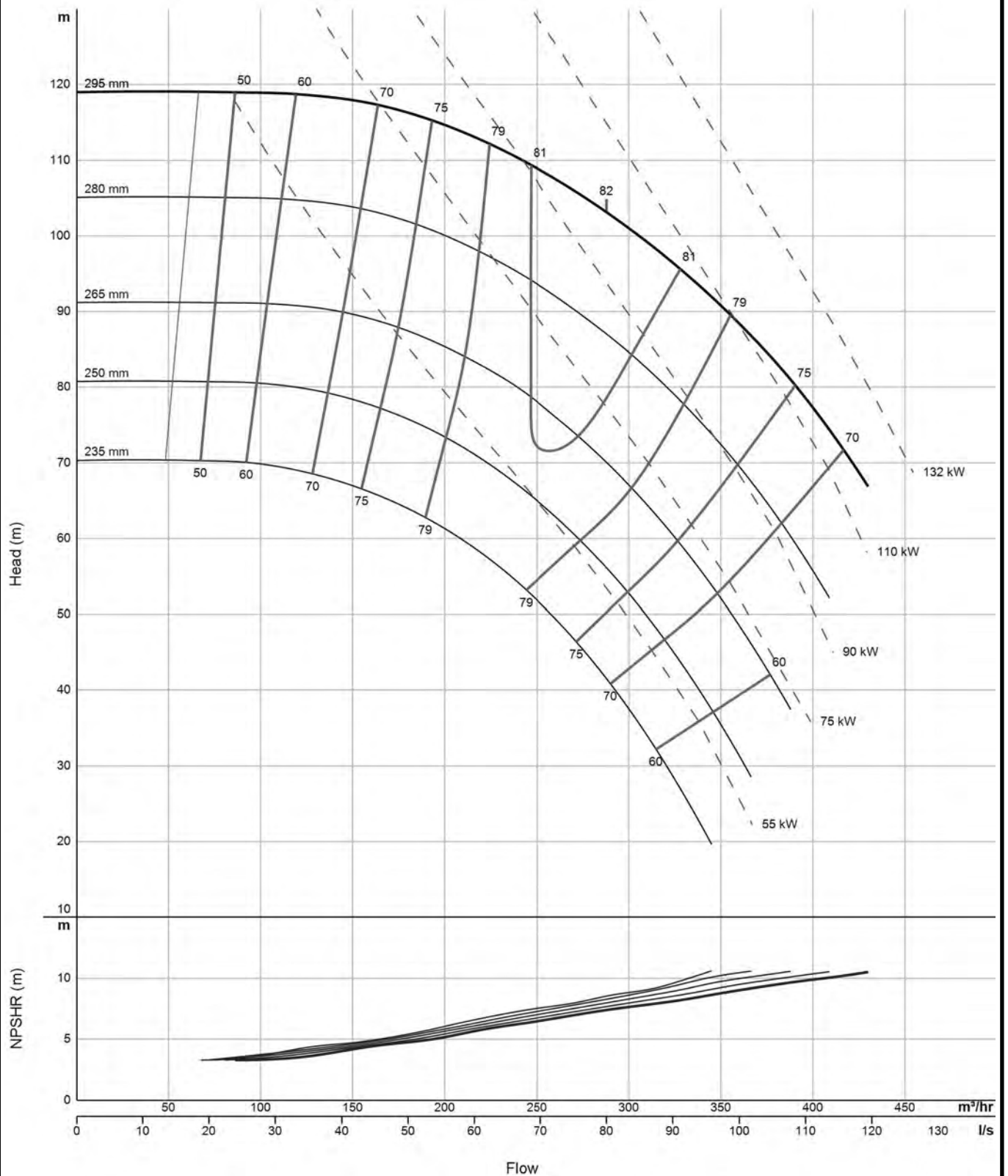


Performance to ISO9906 Grade 2B

125-100-250

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
75	248 mm	✓	✓
90	266 mm	✓	✓
110	289 mm	✓	✓
132	295 mm	✓	✗

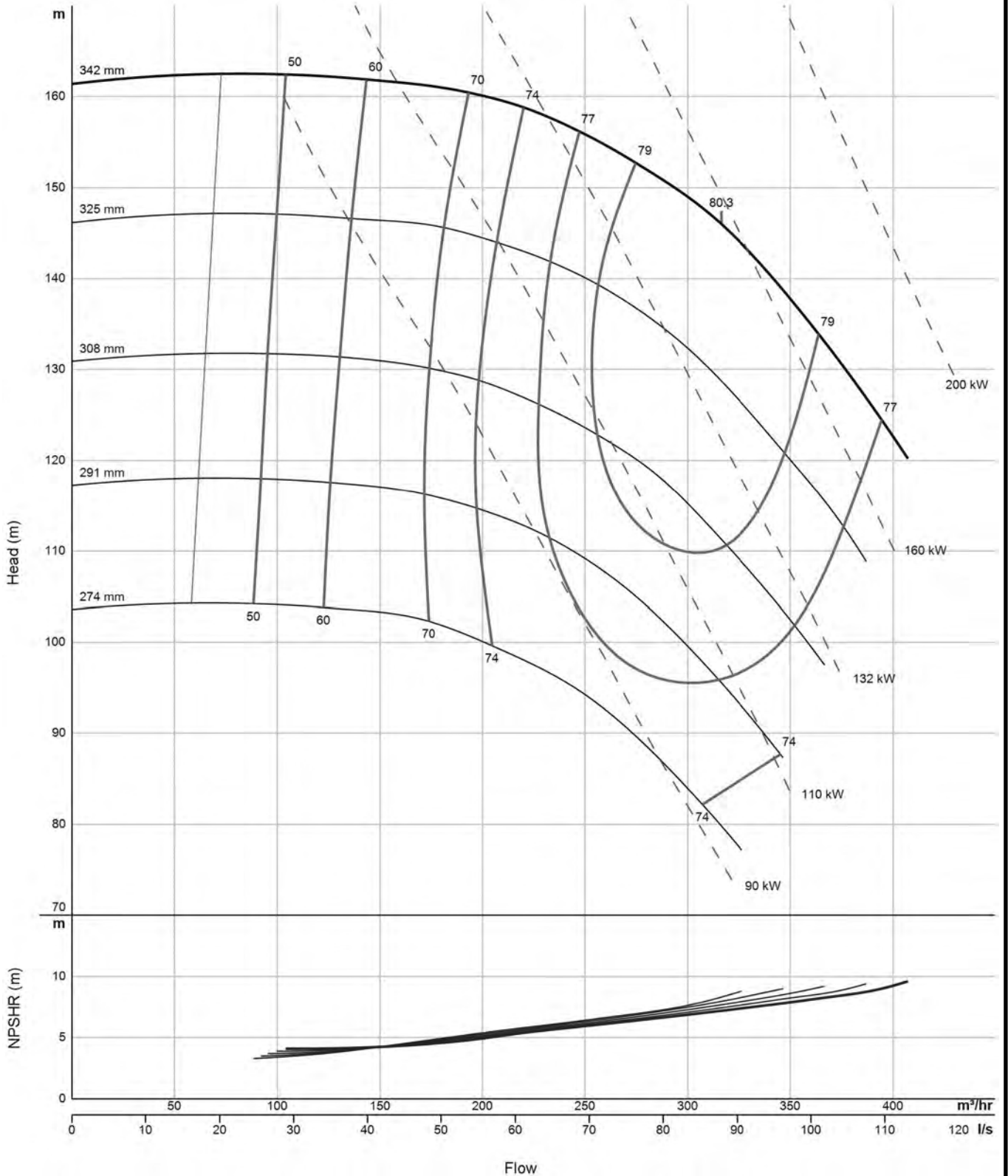


Performance to ISO9906 Grade 2B

125-100-315

Nom Speed: - 2900Rpm

kW	Max Ø	GISO	GIS
110	289 mm	✓	✓
132	310 mm	✓	✗
160	331 mm	✓	✗
200	342 mm	✓	✗



Performance to ISO9906 Grade 2B

4 POLE RANGE

50-32-160

kW

Max Ø

GISO

GIS



Nom Speed: - 1450Rpm

0.75

180 mm

✓

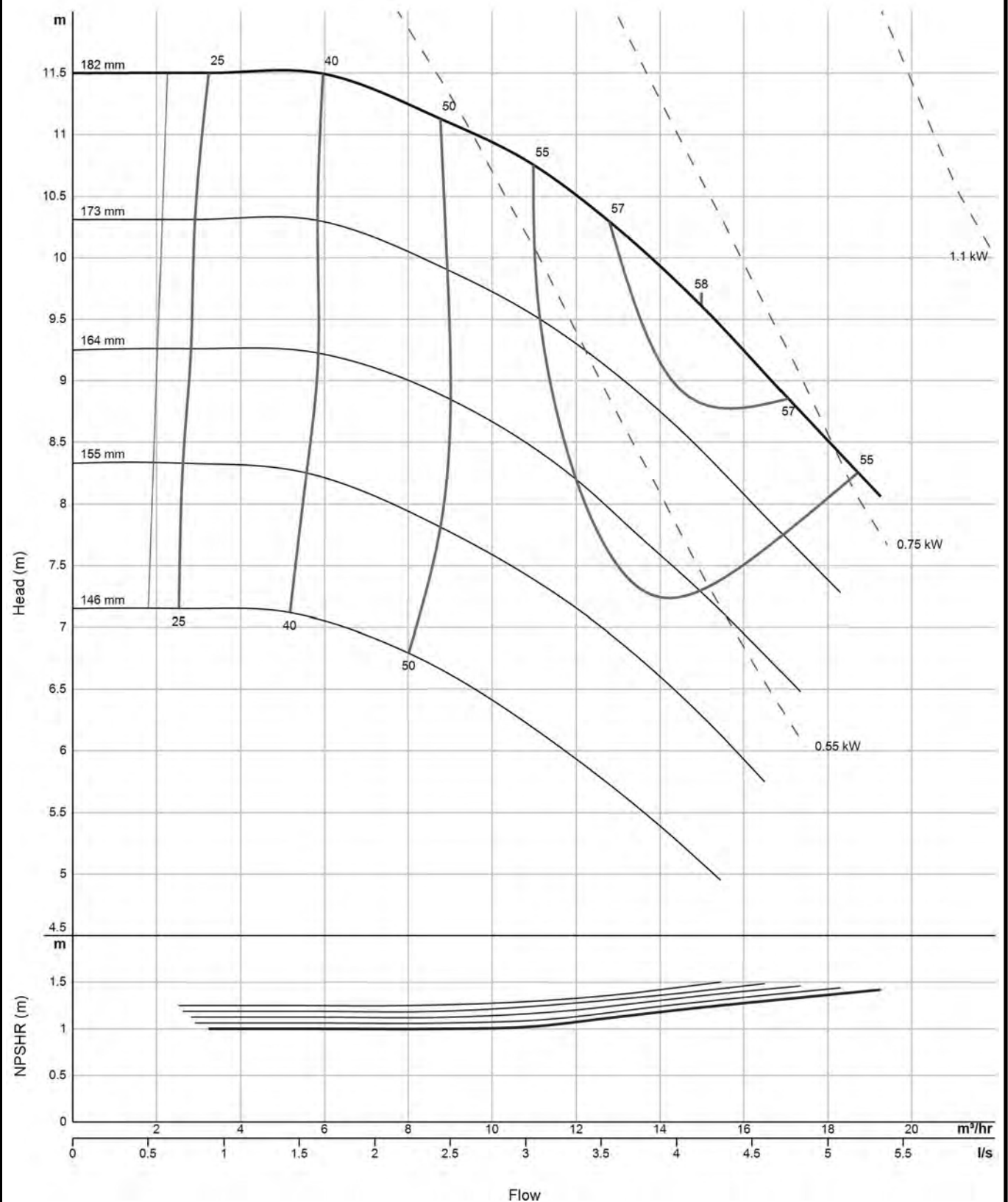
✓

1.1

182 mm

✓

✓

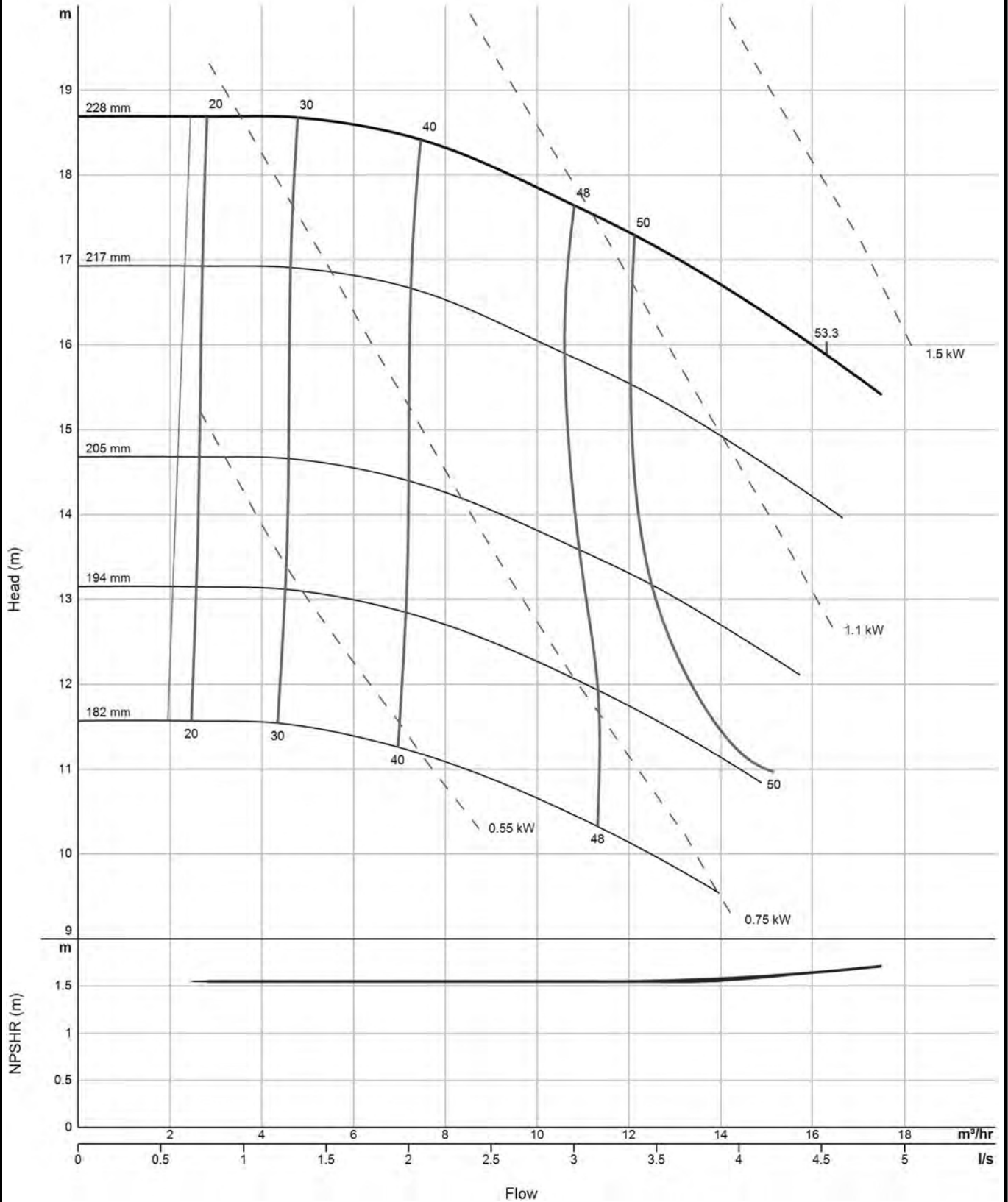


Performance to ISO9906 Grade 2B

50-32-200

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
0.75	182 mm	✓	✓
1.1	210 mm	✓	✓
1.5	228 mm	✓	✓

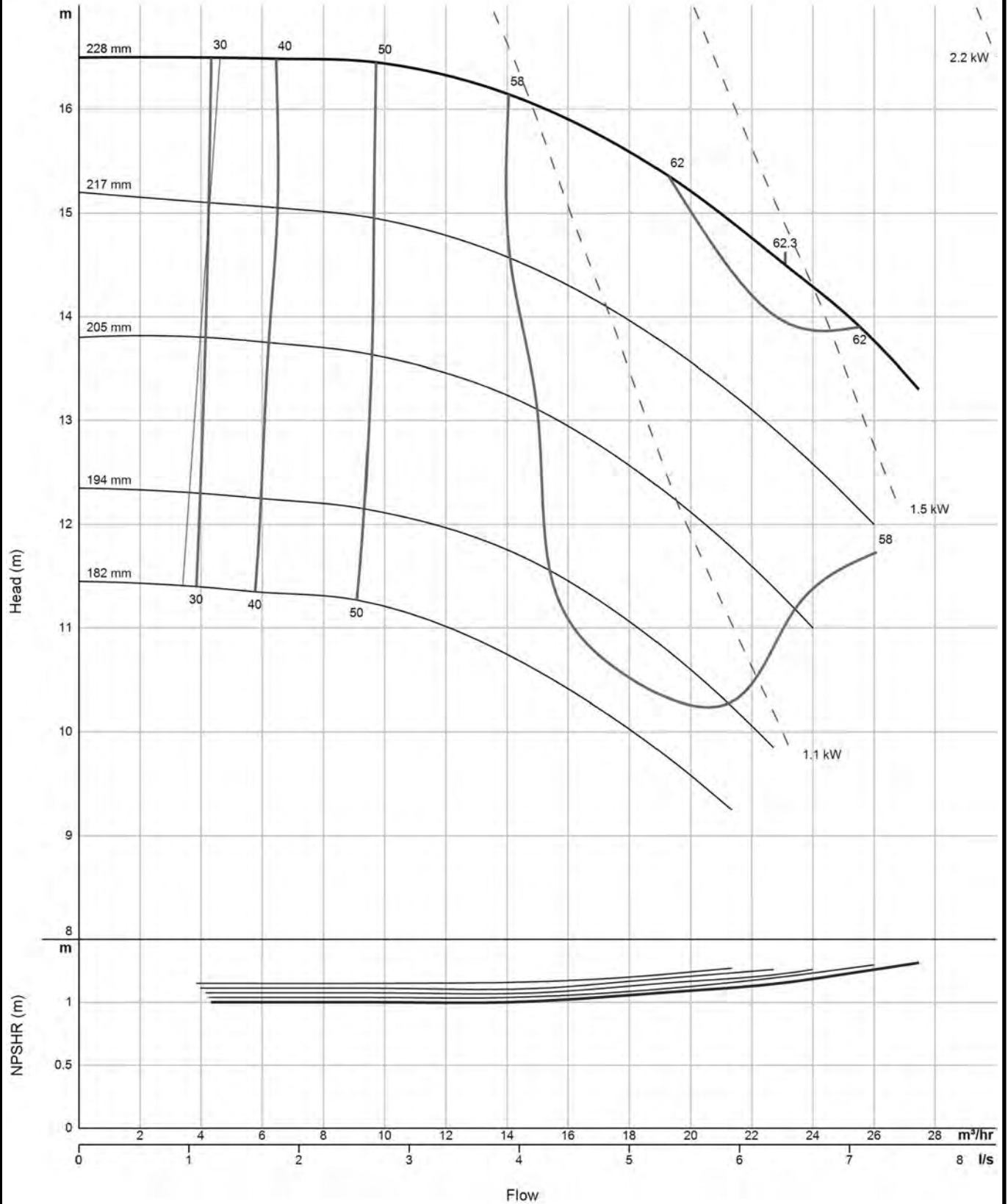


Performance to ISO9906 Grade 2B

65-40-200

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
1.1	196 mm	✓	✓
1.5	220 mm	✓	✓
2.2	228 mm	✓	✓

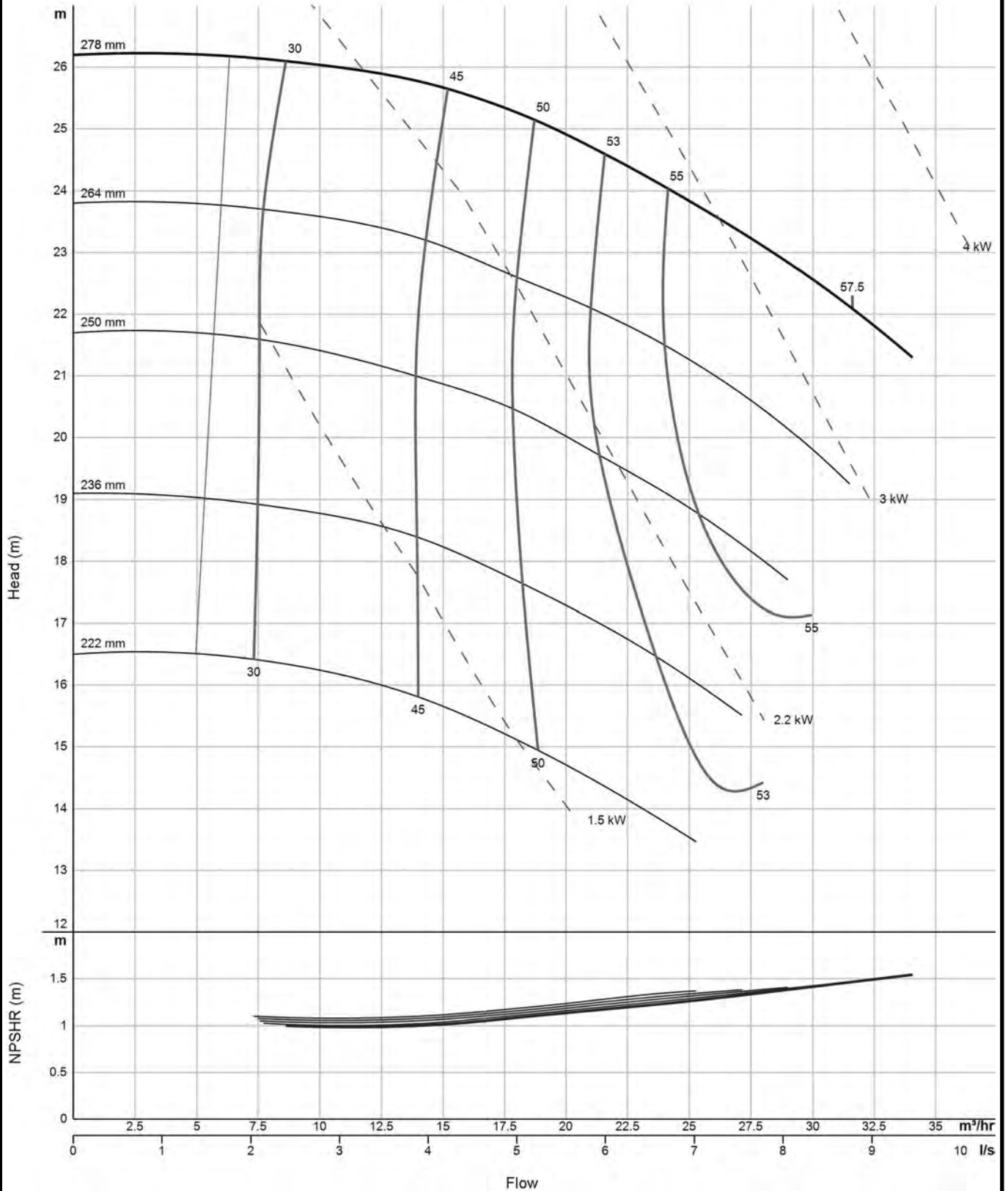


Performance to ISO9906 Grade 2B

65-40-250

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
2.2	238 mm	✓	✓
3.0	265 mm	✓	✓
4.0	278 mm	✓	✓

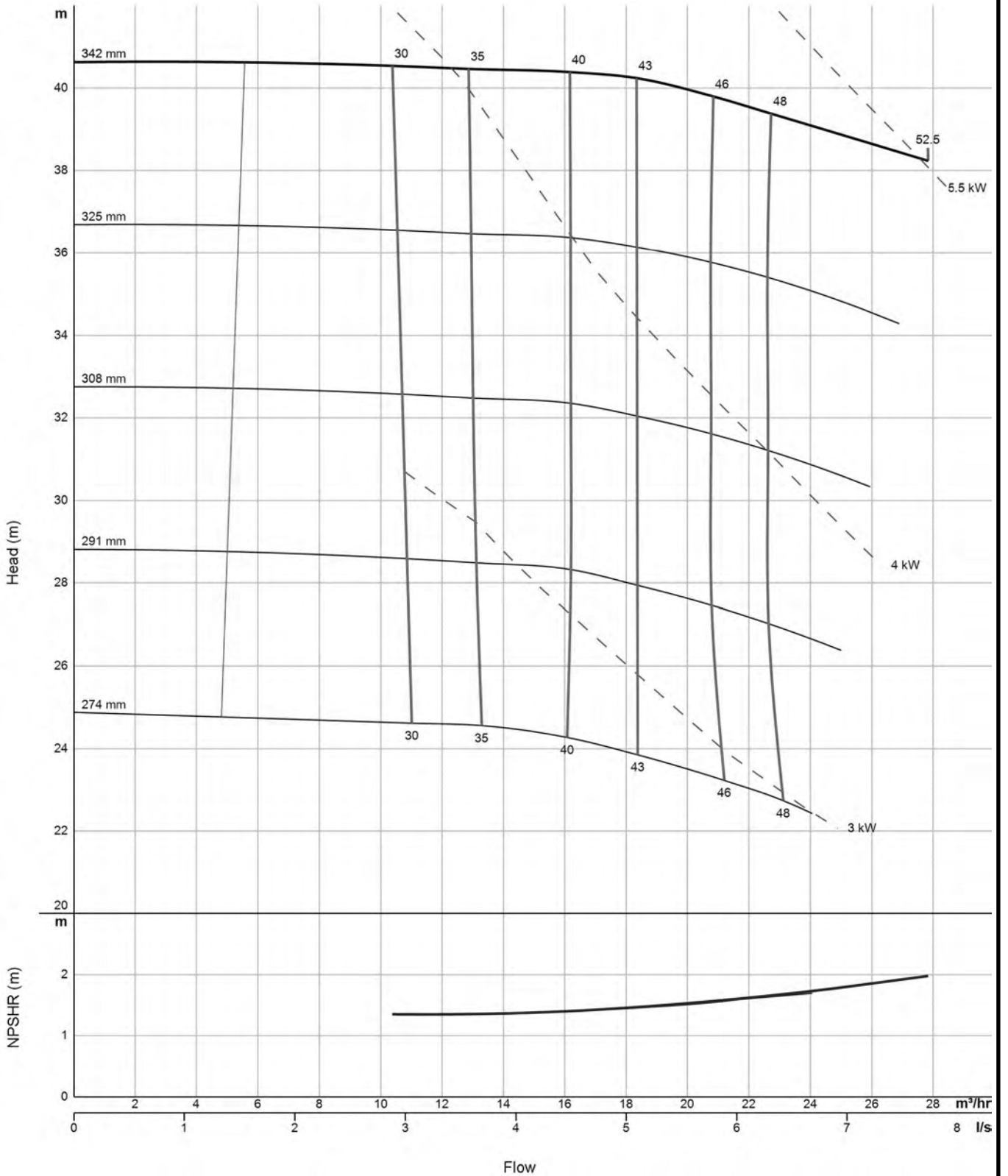


Performance to ISO9906 Grade 2B

65-40-315

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
3.0	274 mm	✓	✓
4.0	302 mm	✓	✓
5.5	341 mm	✓	✓
7.5	342 mm	✓	✓

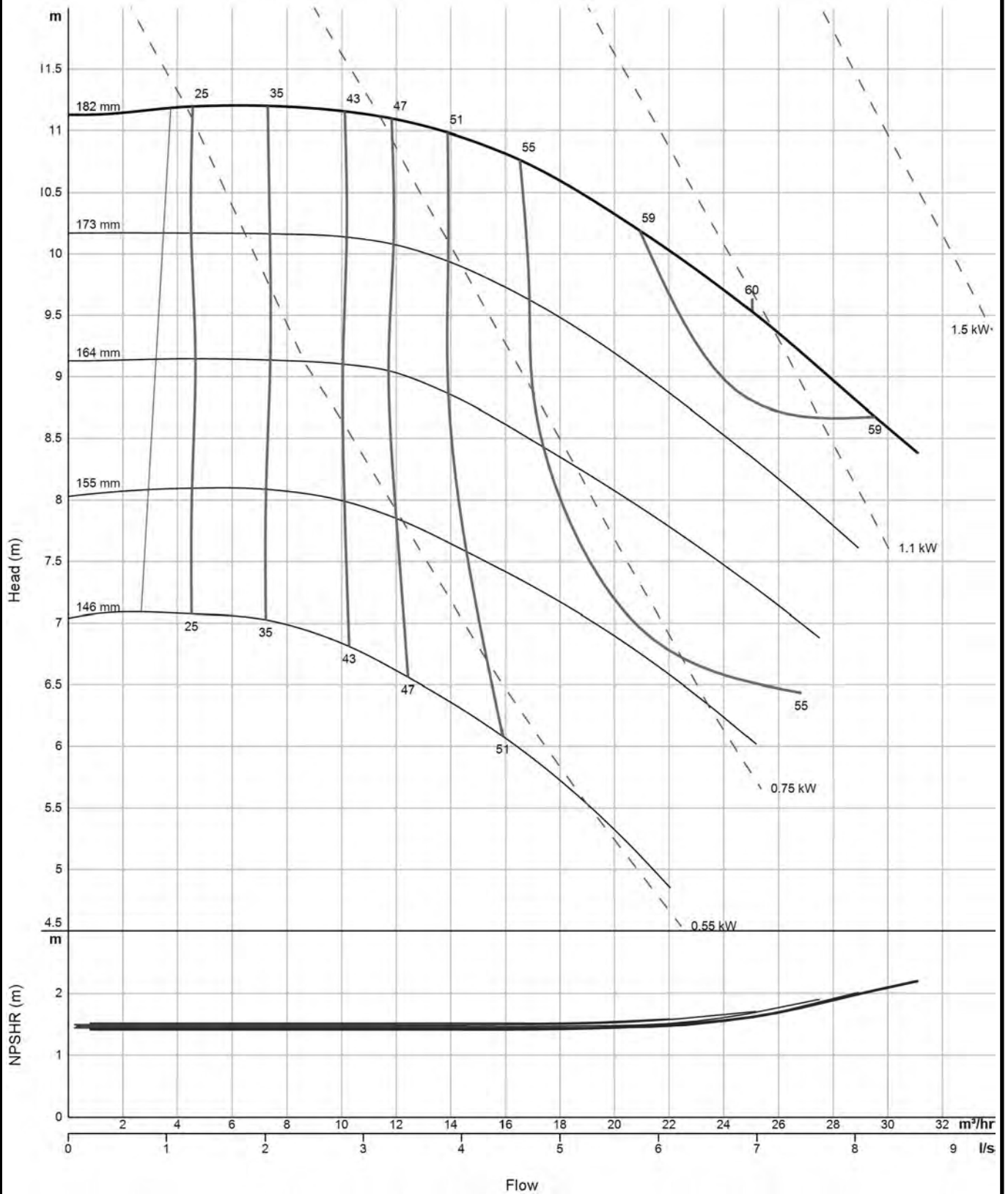


Performance to ISO9906 Grade 2B

65-50-160

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
0.75	146 mm	✓	✓
1.1	176 mm	✓	✓
1.5	182 mm	✓	✓

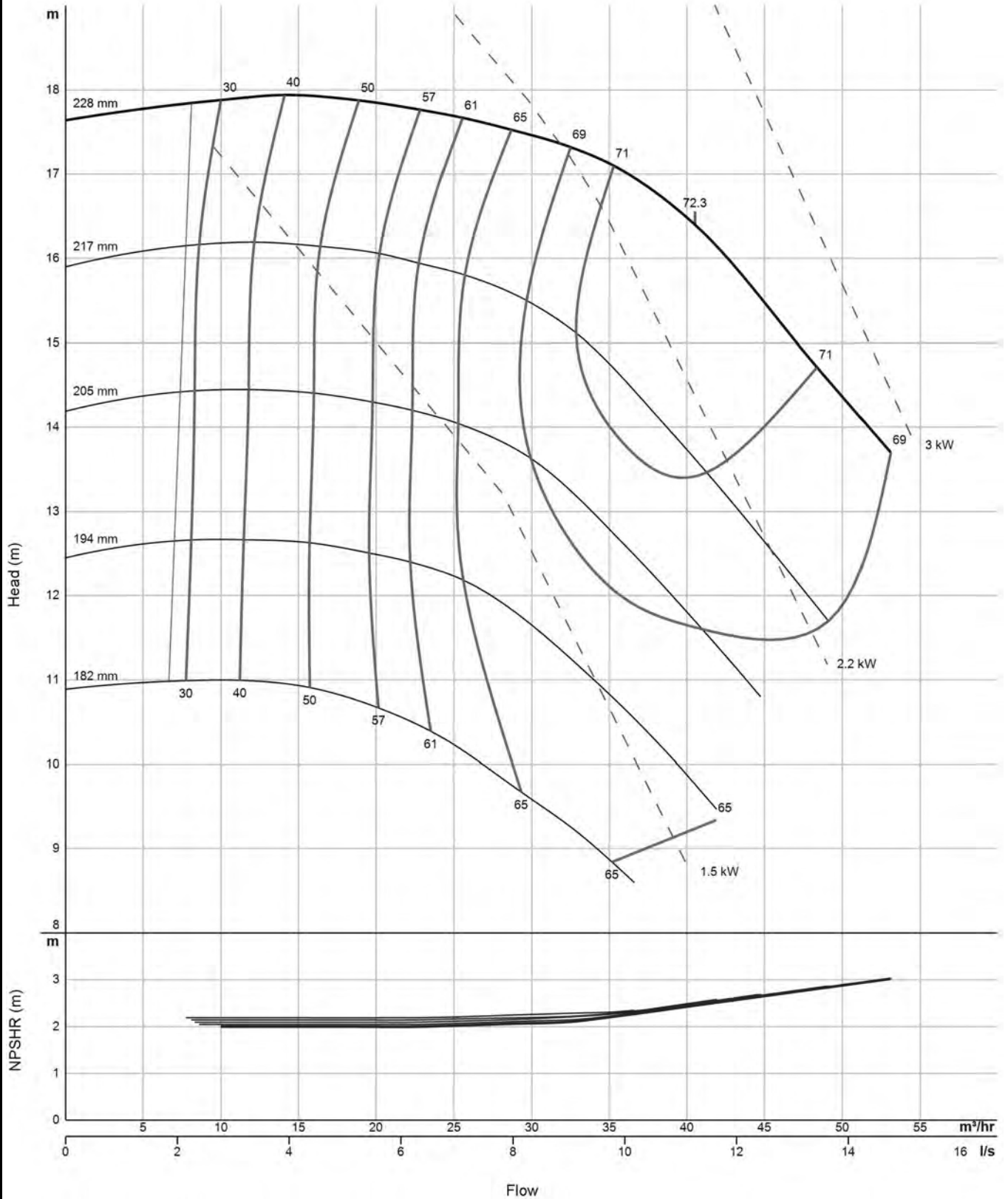


Performance to ISO9906 Grade 2B

80-50-200

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
1.5	188 mm	✓	✓
2.2	214 mm	✓	✓
3.0	228 mm	✓	✓

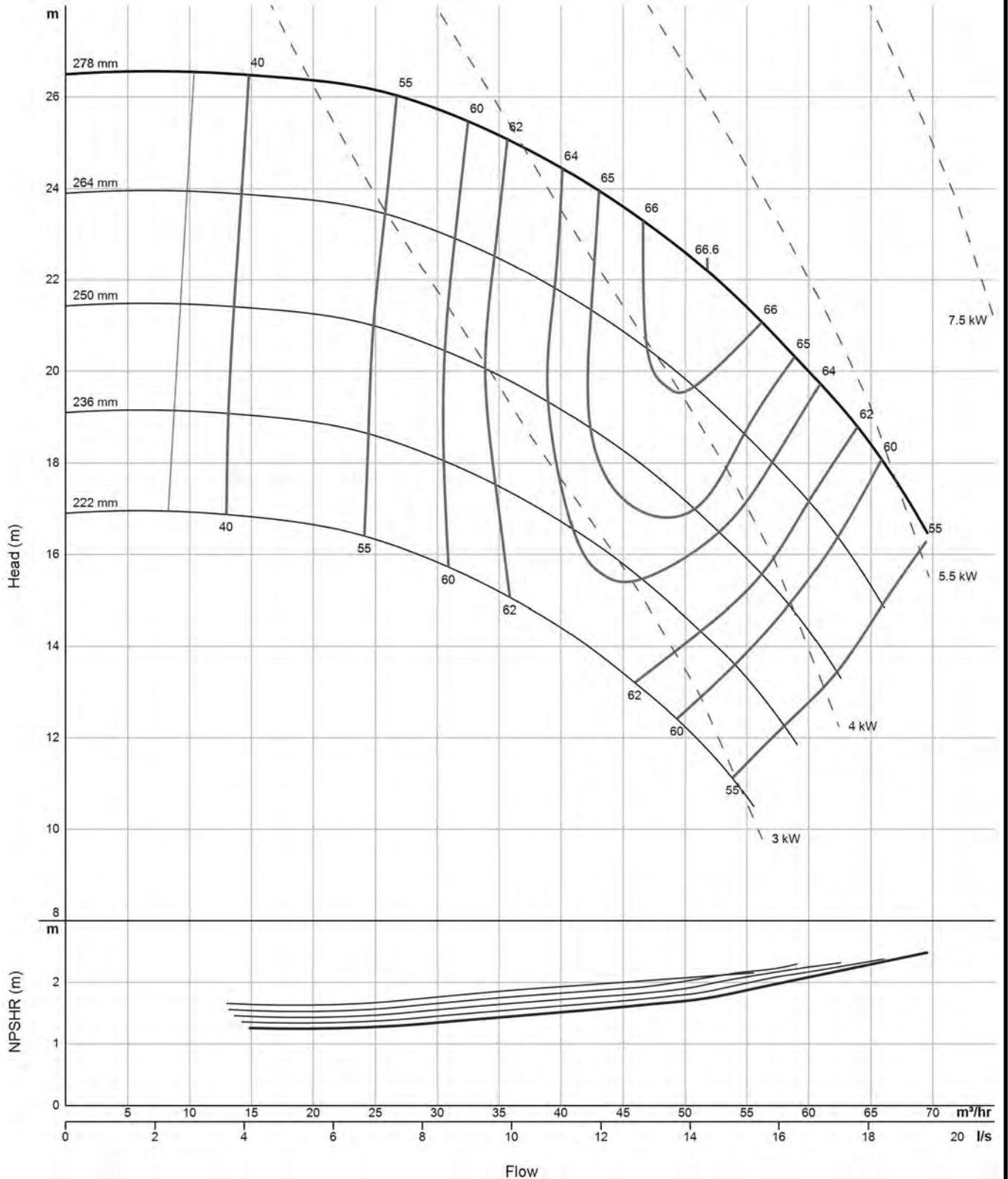


Performance to ISO9906 Grade 2B

80-50-250

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
3.0	222mm	✓	✓
4.0	246 mm	✓	✓
5.5	276 mm	✓	✓
7.5	278 mm	✓	✓

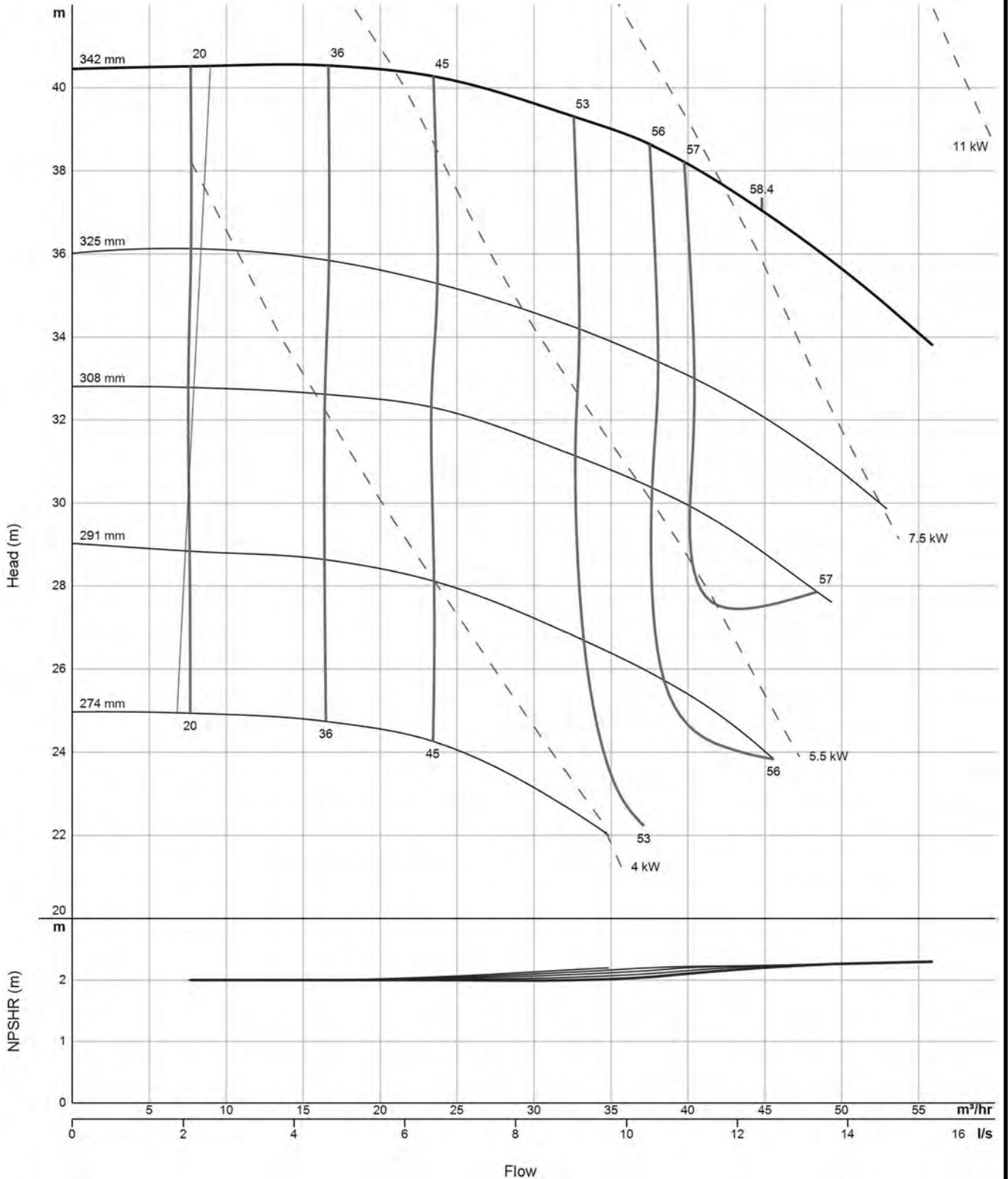


Performance to ISO9906 Grade 2B

80-50-315

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
4.0	274 mm	✓	✓
5.5	294 mm	✓	✓
7.5	324 mm	✓	✓
11	342 mm	✓	✓

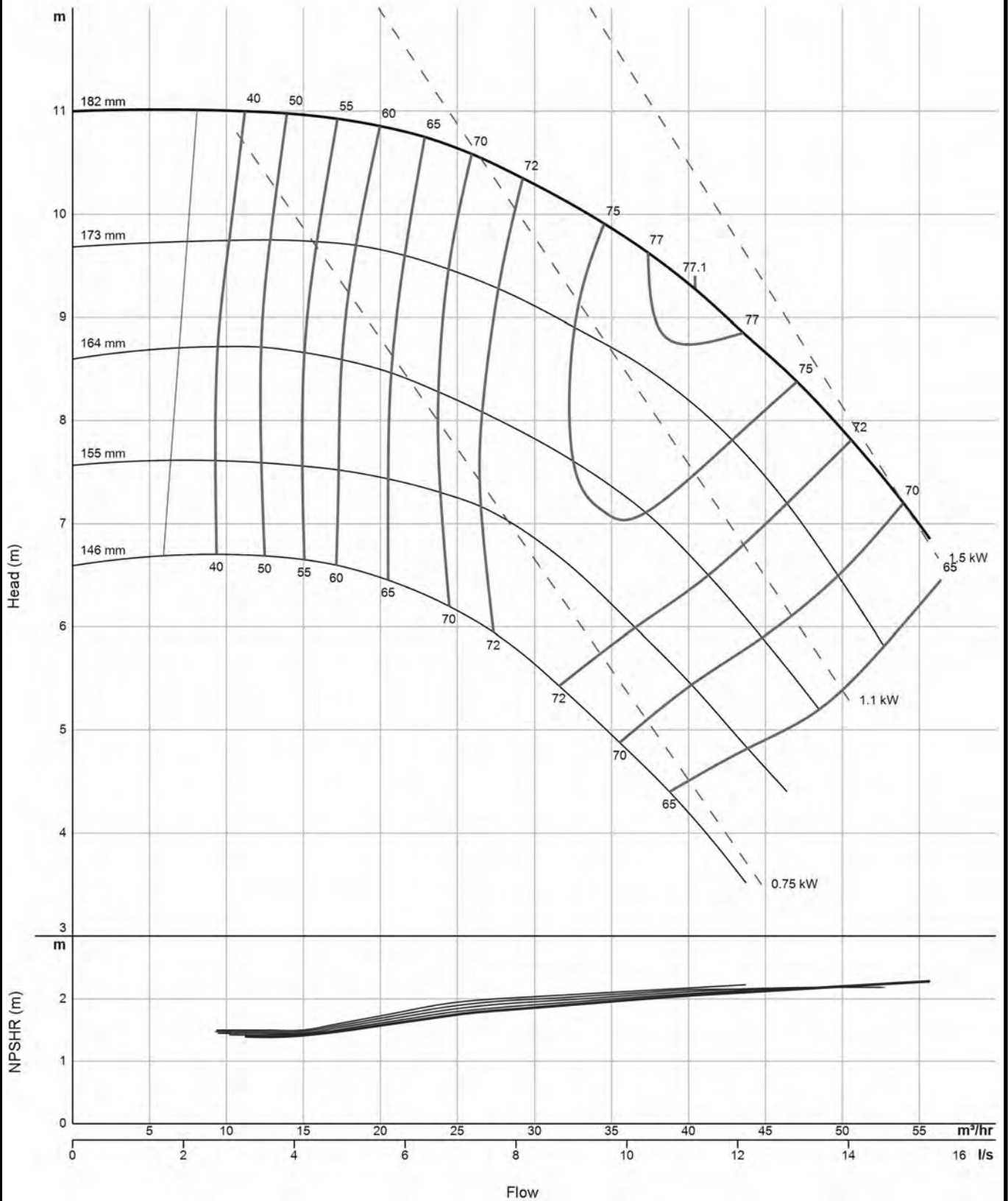


Performance to ISO9906 Grade 2B

80-65-160

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
0.75	146 mm	✓	✓
1.1	167 mm	✓	✓
1.5	182 mm	✓	✓

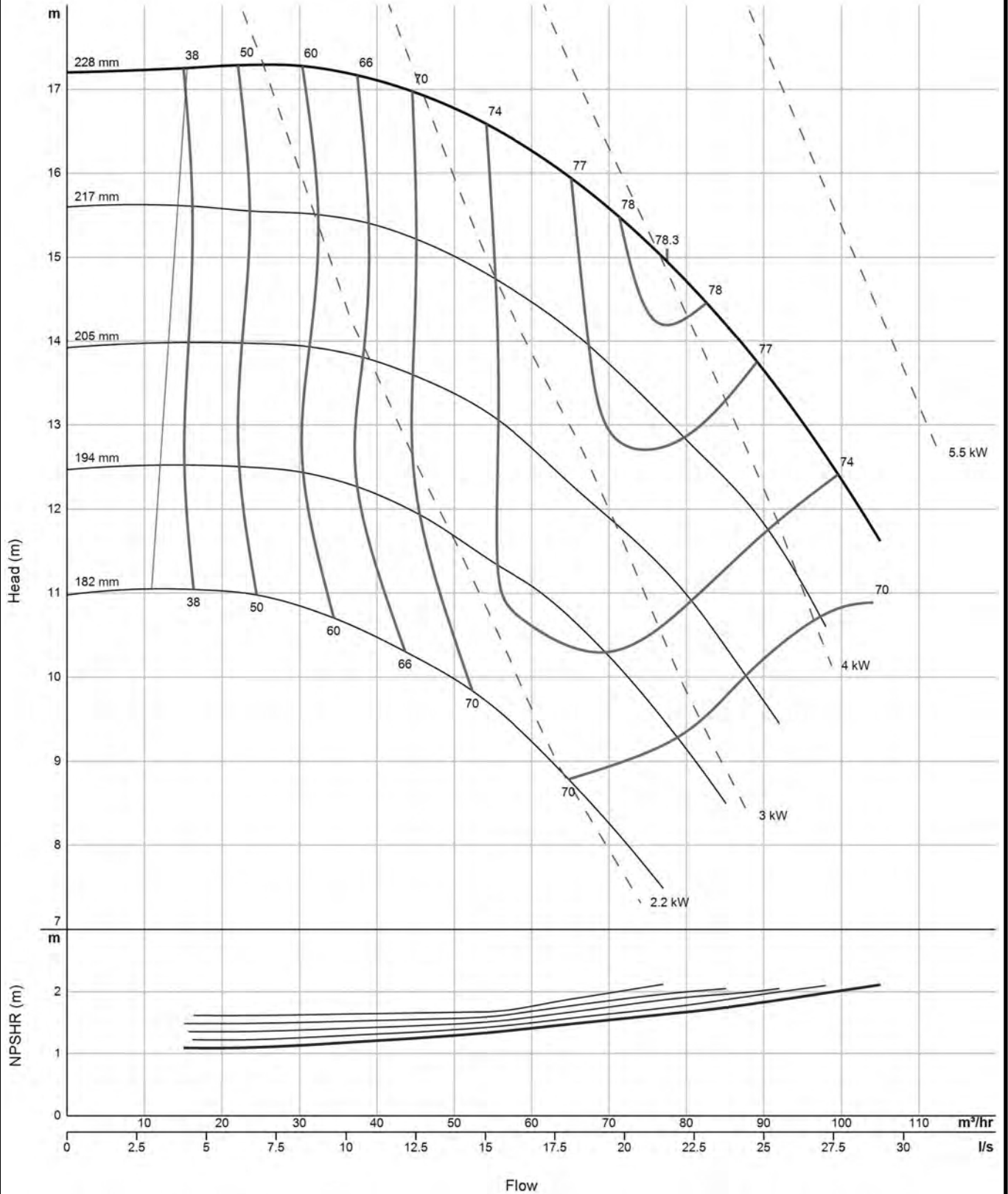


Performance to ISO9906 Grade 2B

100-65-200

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
3.0	196 mm	✓	✓
4.0	216 mm	✓	✓
5.5	228 mm	✓	✓

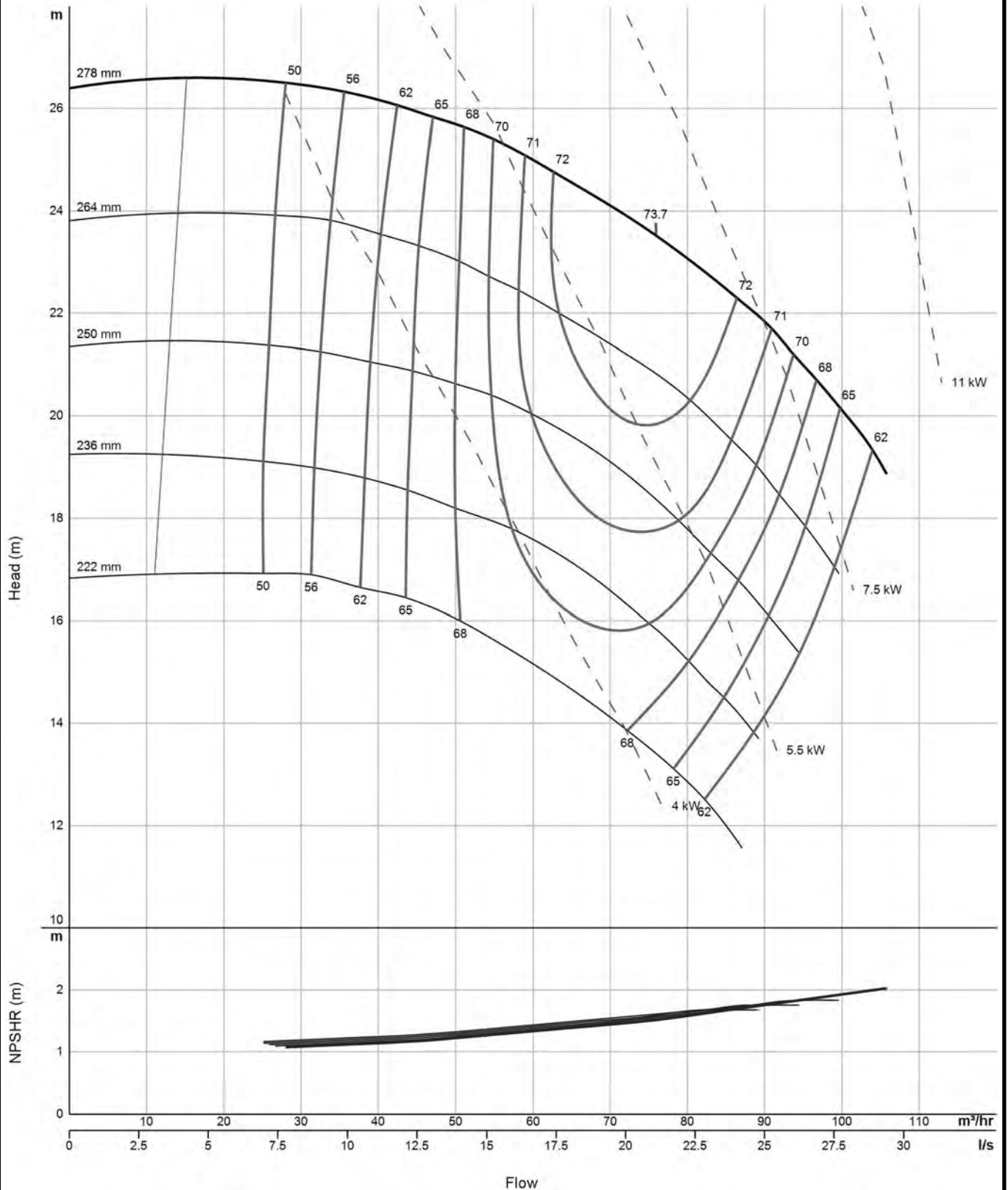


Performance to ISO9906 Grade 2B

100-65-250

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
5.5	237 mm	✓	✓
7.5	265 mm	✓	✓
11	278 mm	✓	✓



Performance to ISO9906 Grade 2B

100-65-315

Nom Speed: - 1450Rpm

kW

11

15

Max Ø

309 mm

342 mm

GISO

✓

✓

GIS

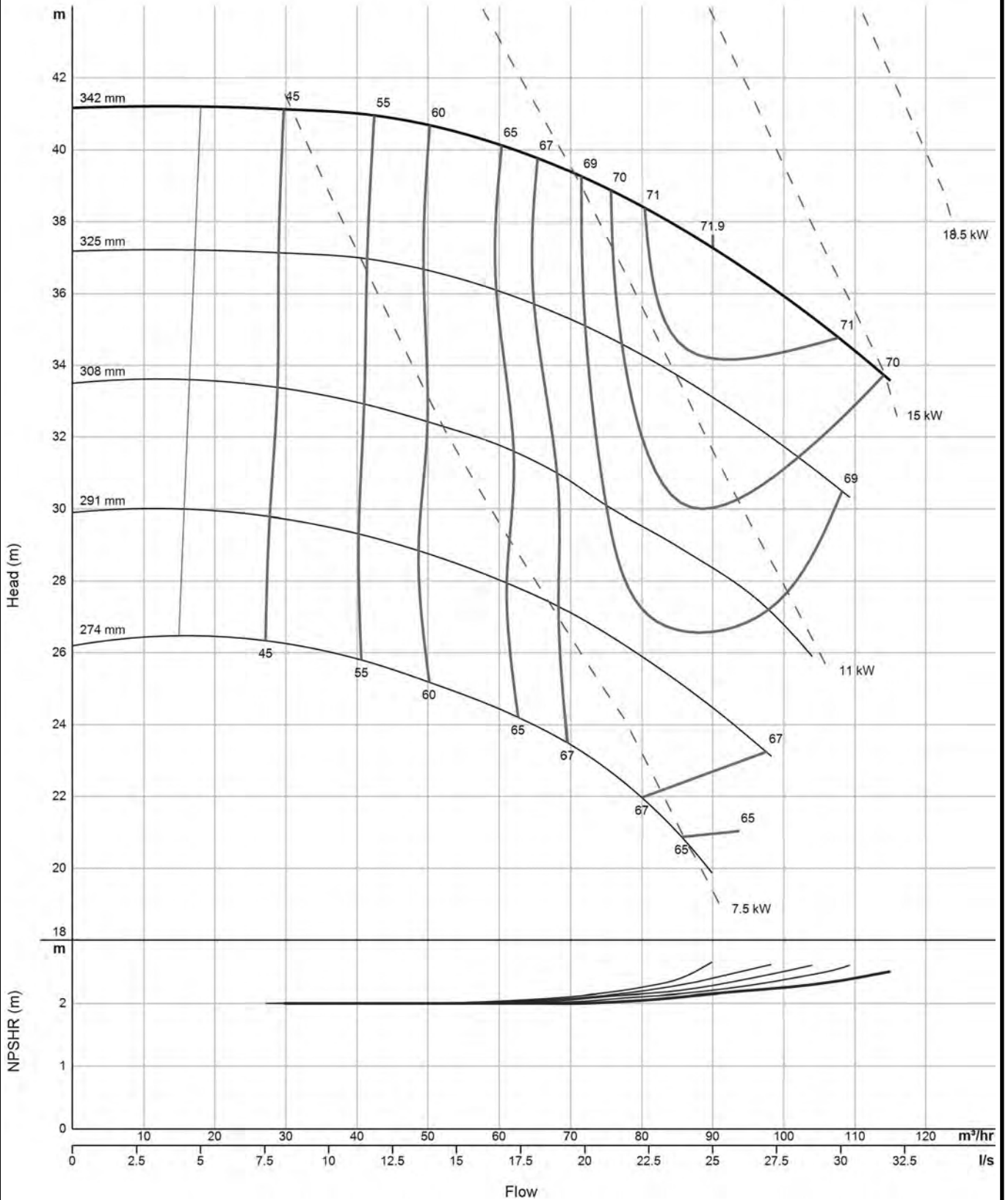
✓

✓



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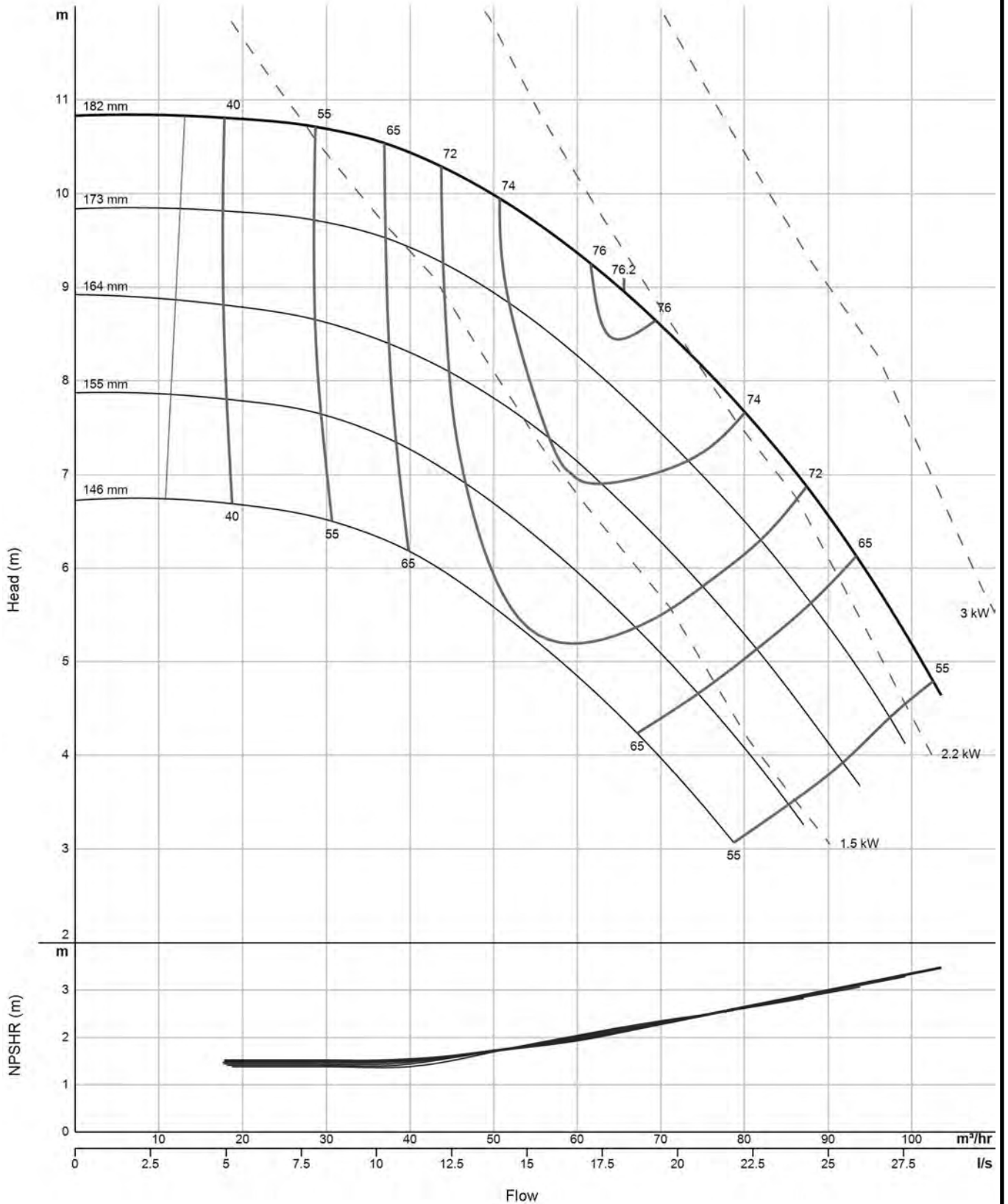


Performance to ISO9906 Grade 2B

100-80-160

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
1.5	156 mm	✓	✓
2.2	176 mm	✓	✓
3.0	182 mm	✓	✓

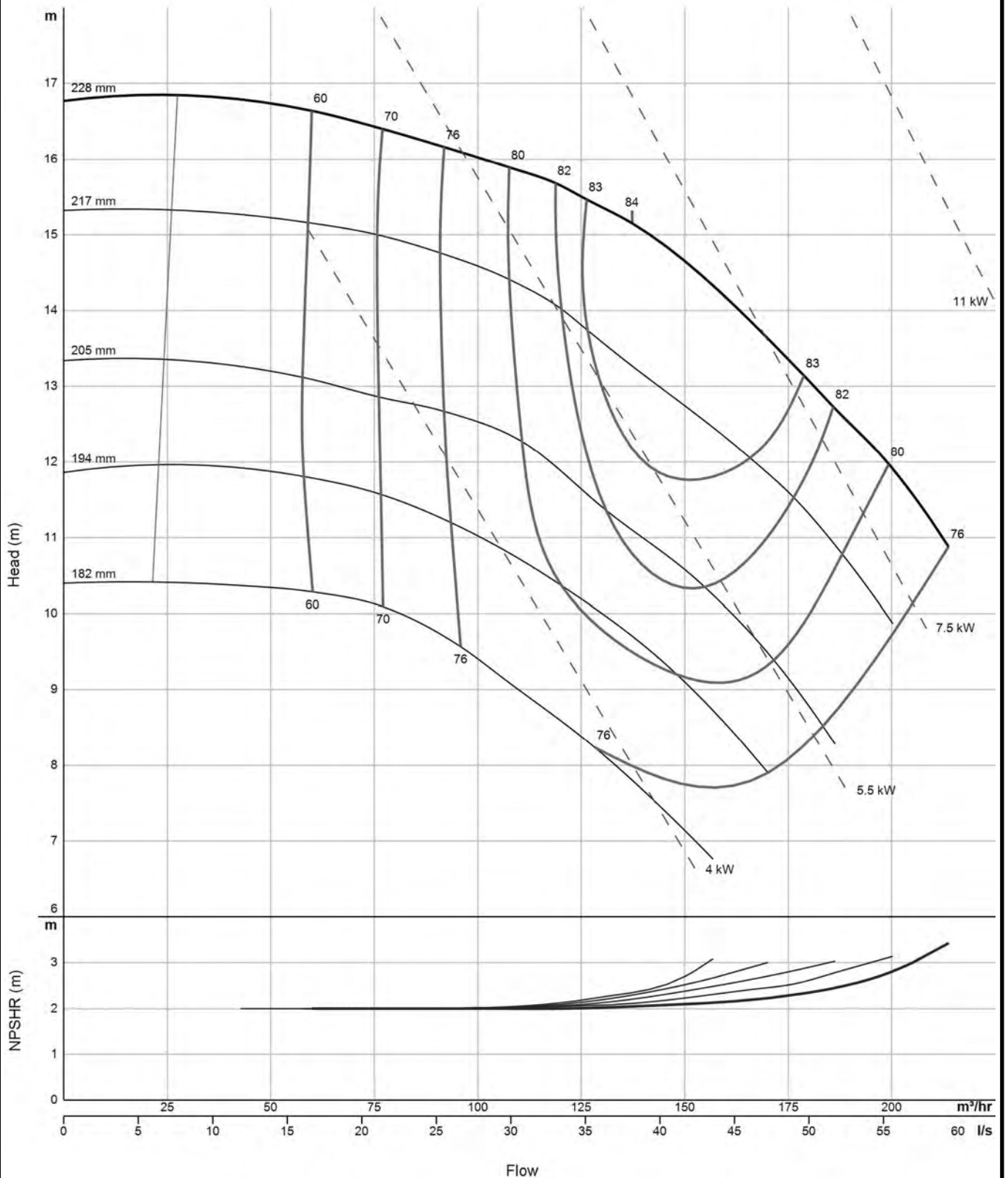


Performance to ISO9906 Grade 2B

125-100-200

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
4.0	190 mm	✓	✓
5.5	207 mm	✓	✓
7.5	225 mm	✓	✓
11	228 mm	✓	✓

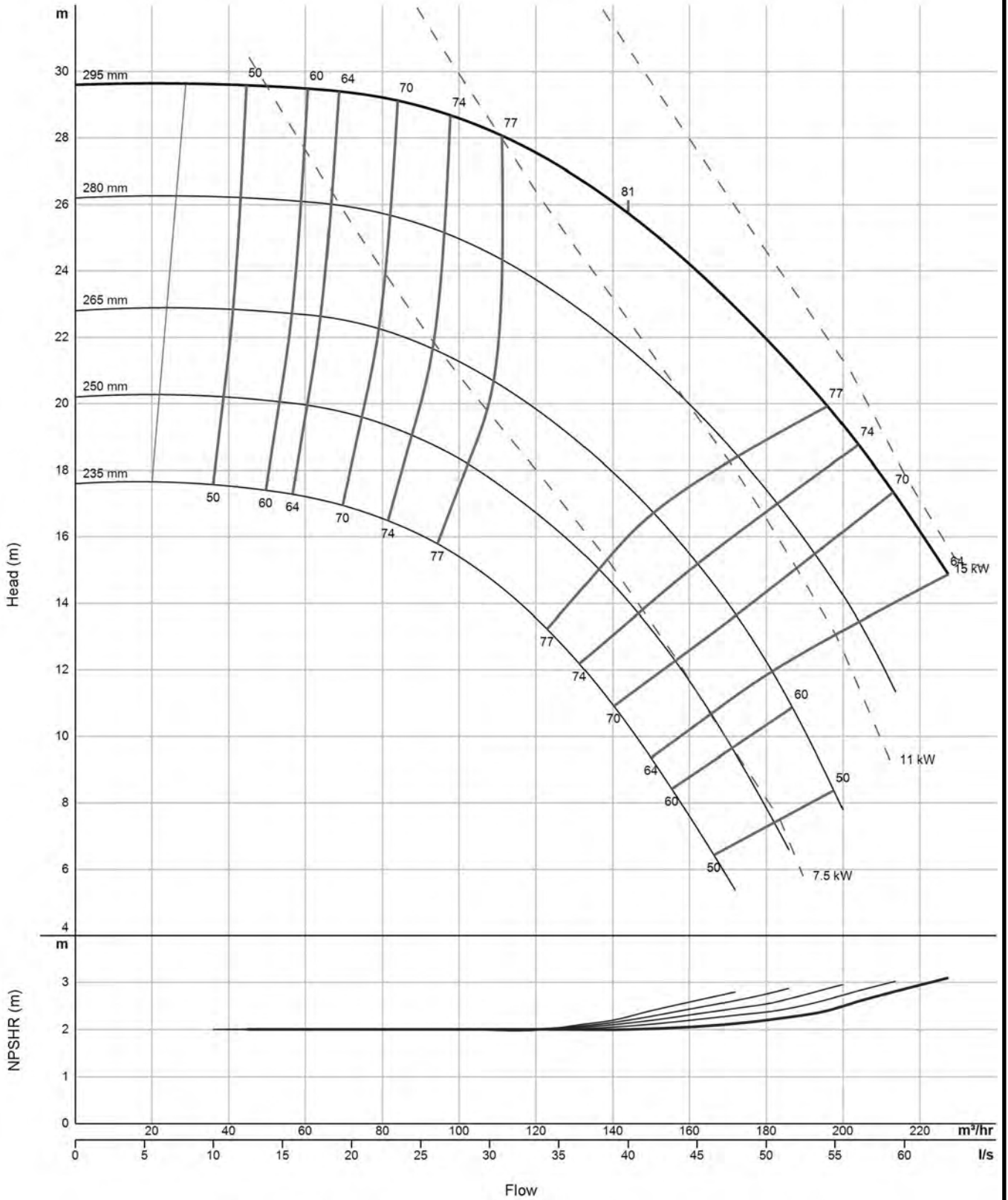


Performance to ISO9906 Grade 2B

125-100-250

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
7.5	249 mm	✓	✓
11	262 mm	✓	✓
15	295 mm	✓	✓

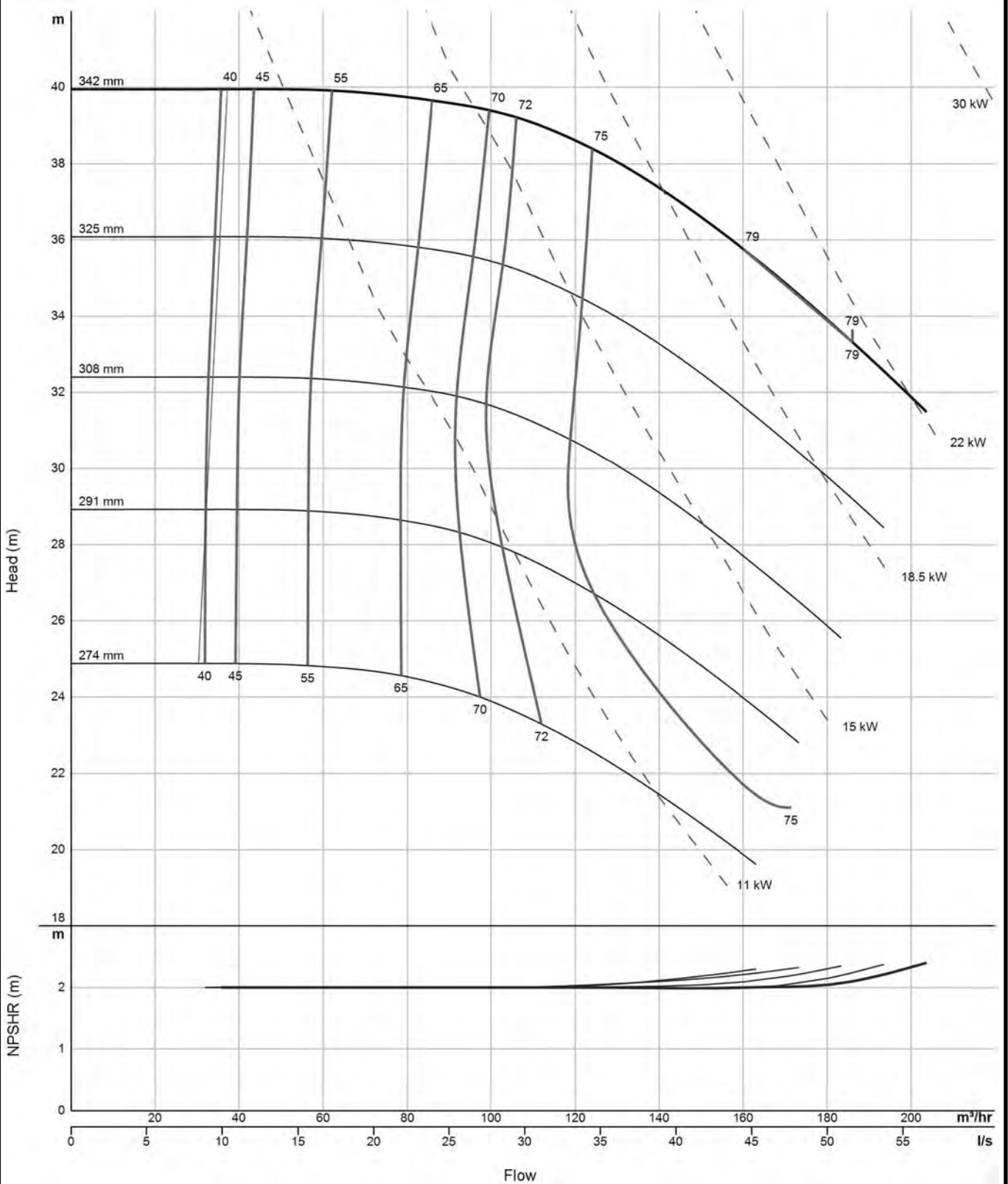


Performance to ISO9906 Grade 2B

125-100-315

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
15	297 mm	✓	✓
18.5	321 mm	✓	✓
22	341 mm	✓	✓
30	342 mm	✓	✓

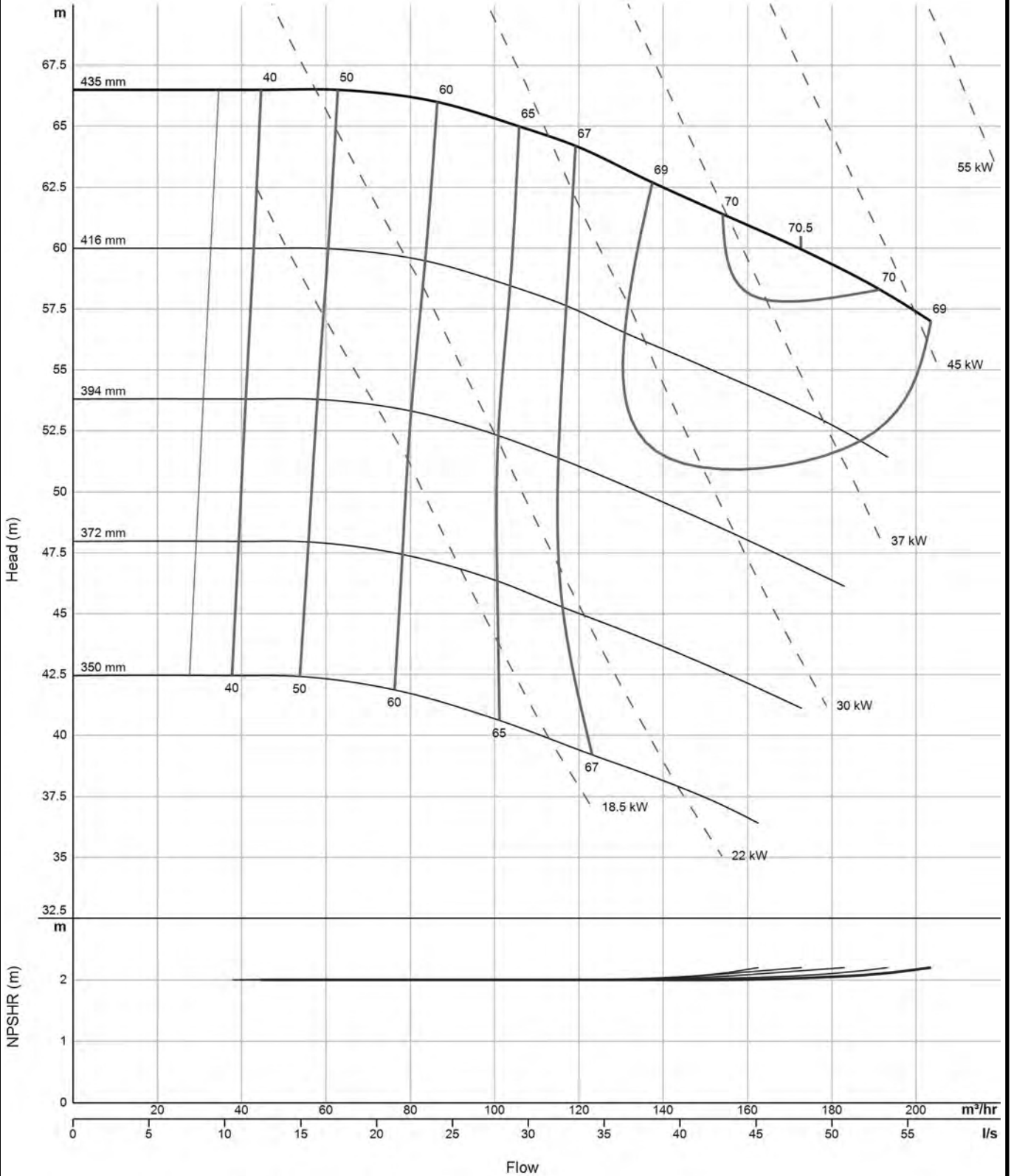


Performance to ISO9906 Grade 2B

125-100-400

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
30	377 mm	✓	✓
37	406 mm	✓	✓
45	432 mm	✓	✓
55	435mm	✓	✗

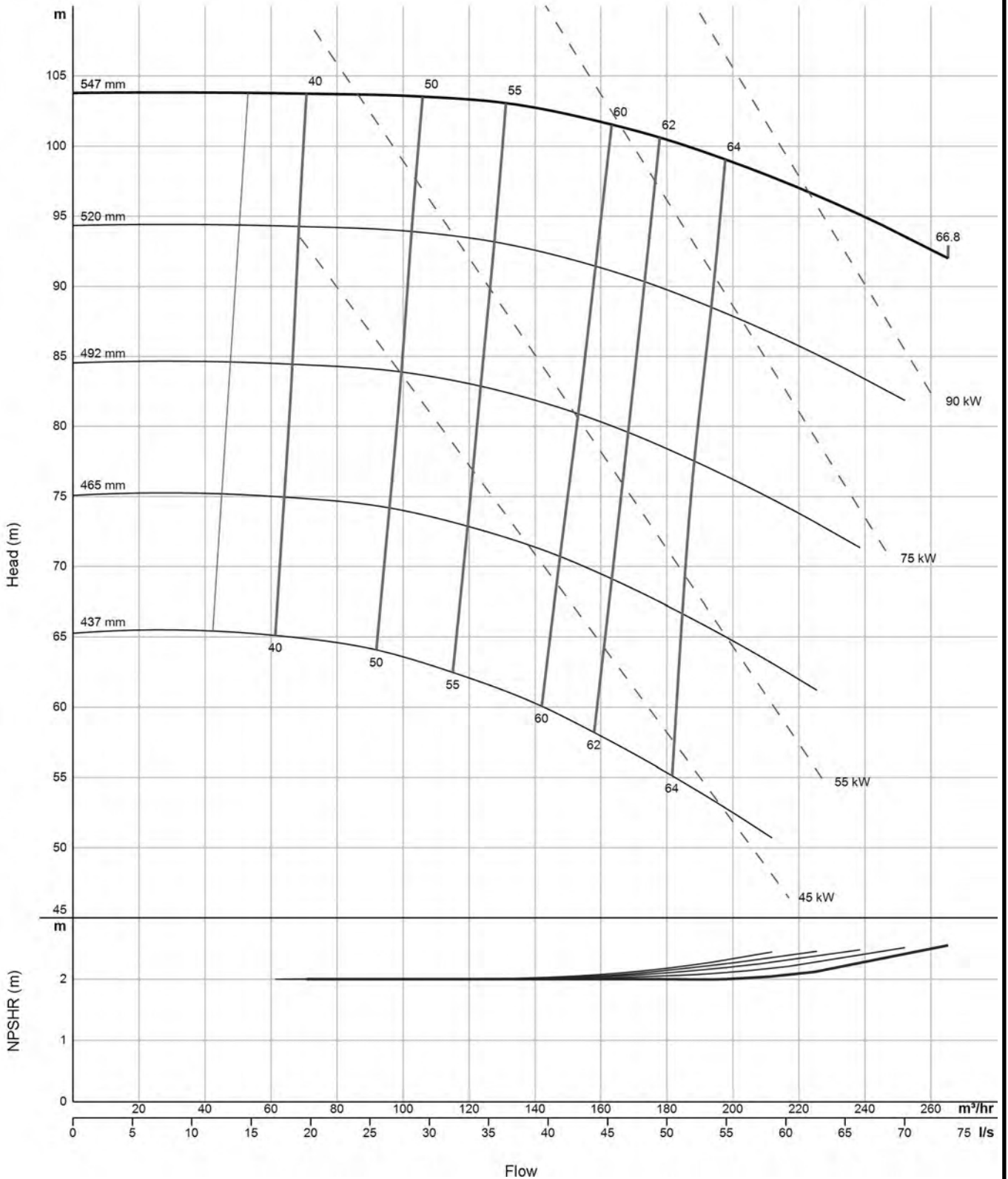


Performance to ISO9906 Grade 2B

125-100-500

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
55	456 mm	✓	✗
75	498 mm	✓	✗
90	528 mm	✓	✗
110	547 mm	✓	✗

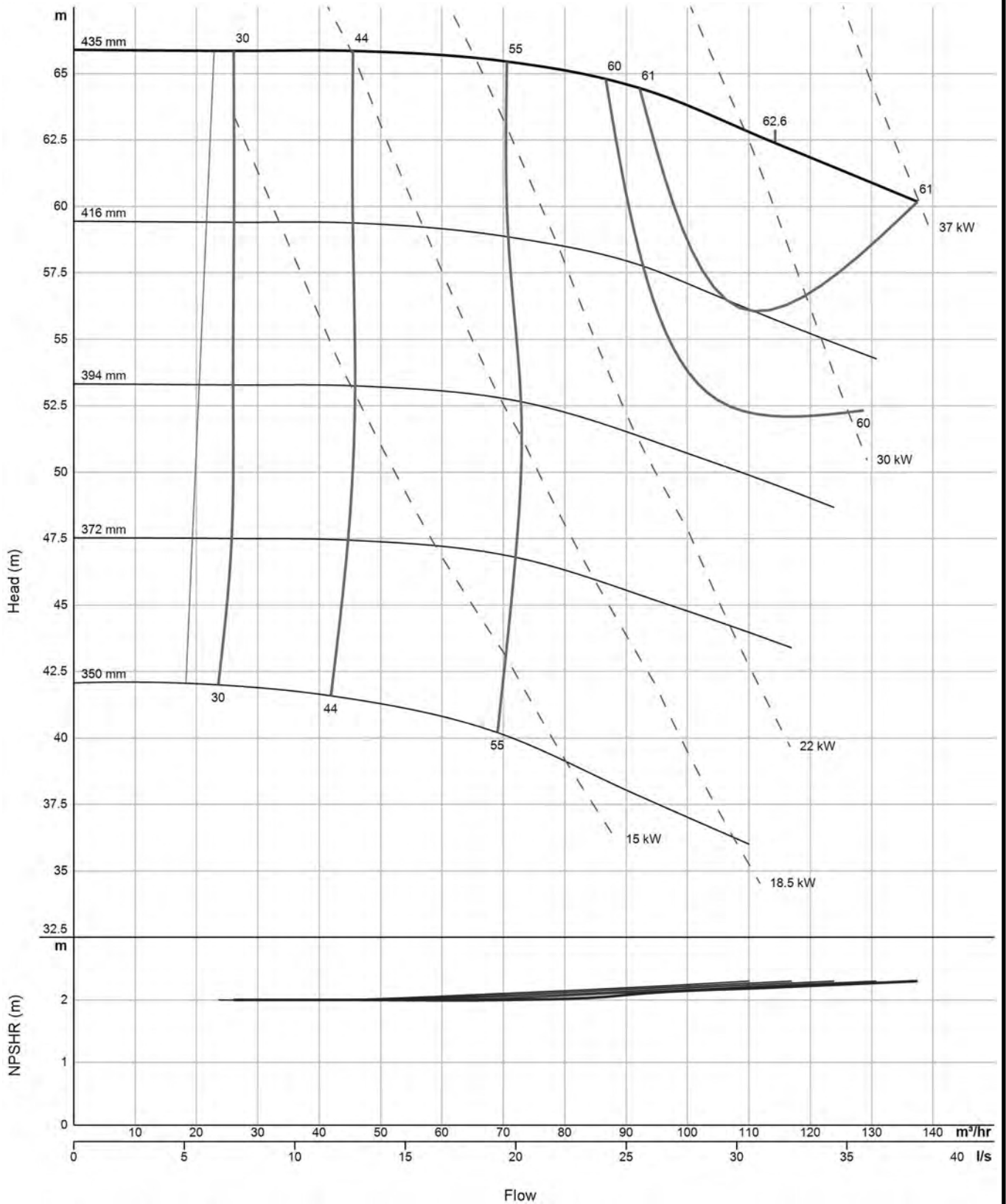


Performance to ISO9906 Grade 2B

125-80-400

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
22	364 mm	✓	✓
30	404 mm	✓	✓
37	435 mm	✓	✓

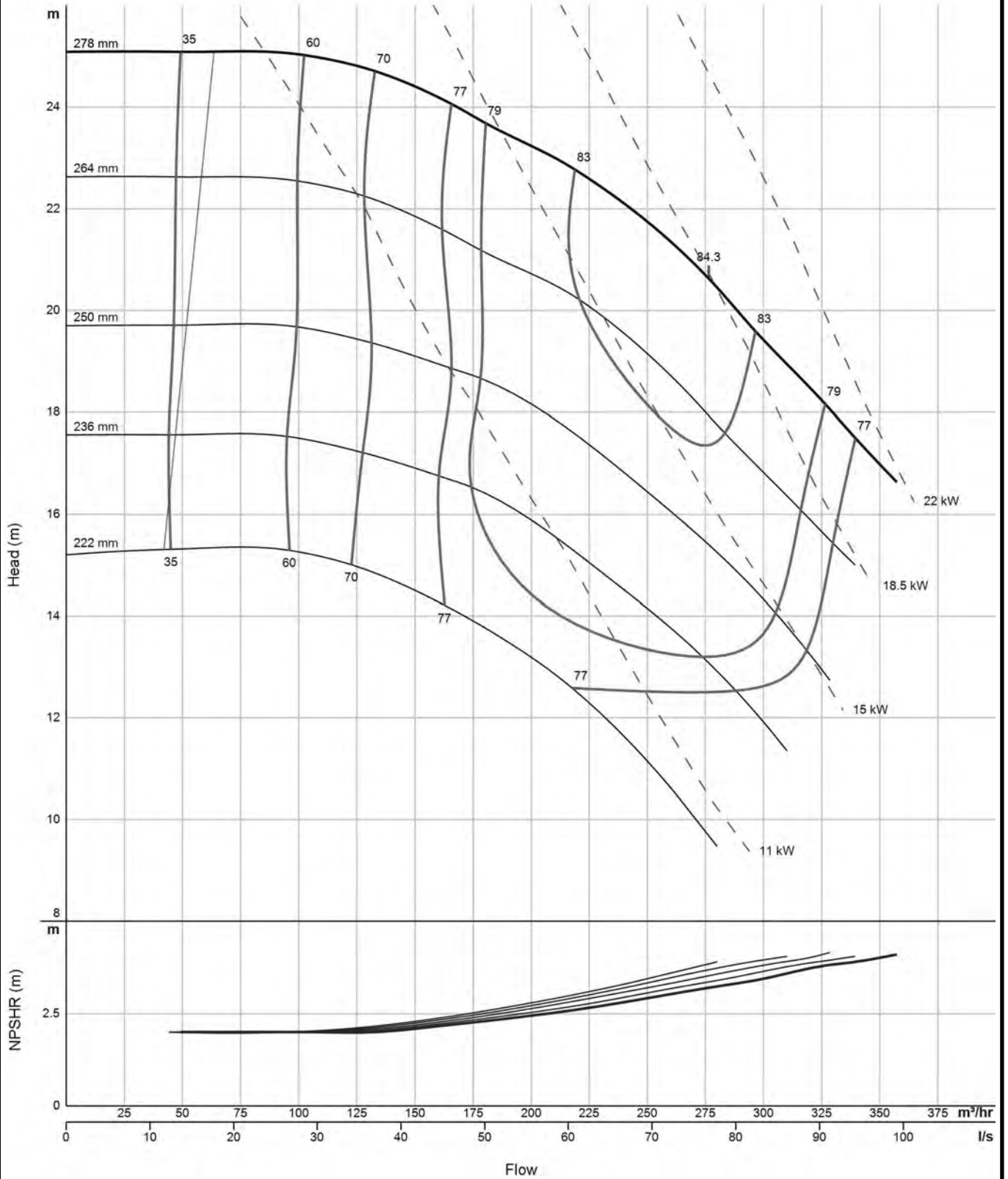


Performance to ISO9906 Grade 2B

150-125-250

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
11	225 mm	✓	✓
15	249 mm	✓	✓
18.5	265 mm	✓	✓
22	278 mm	✓	✓

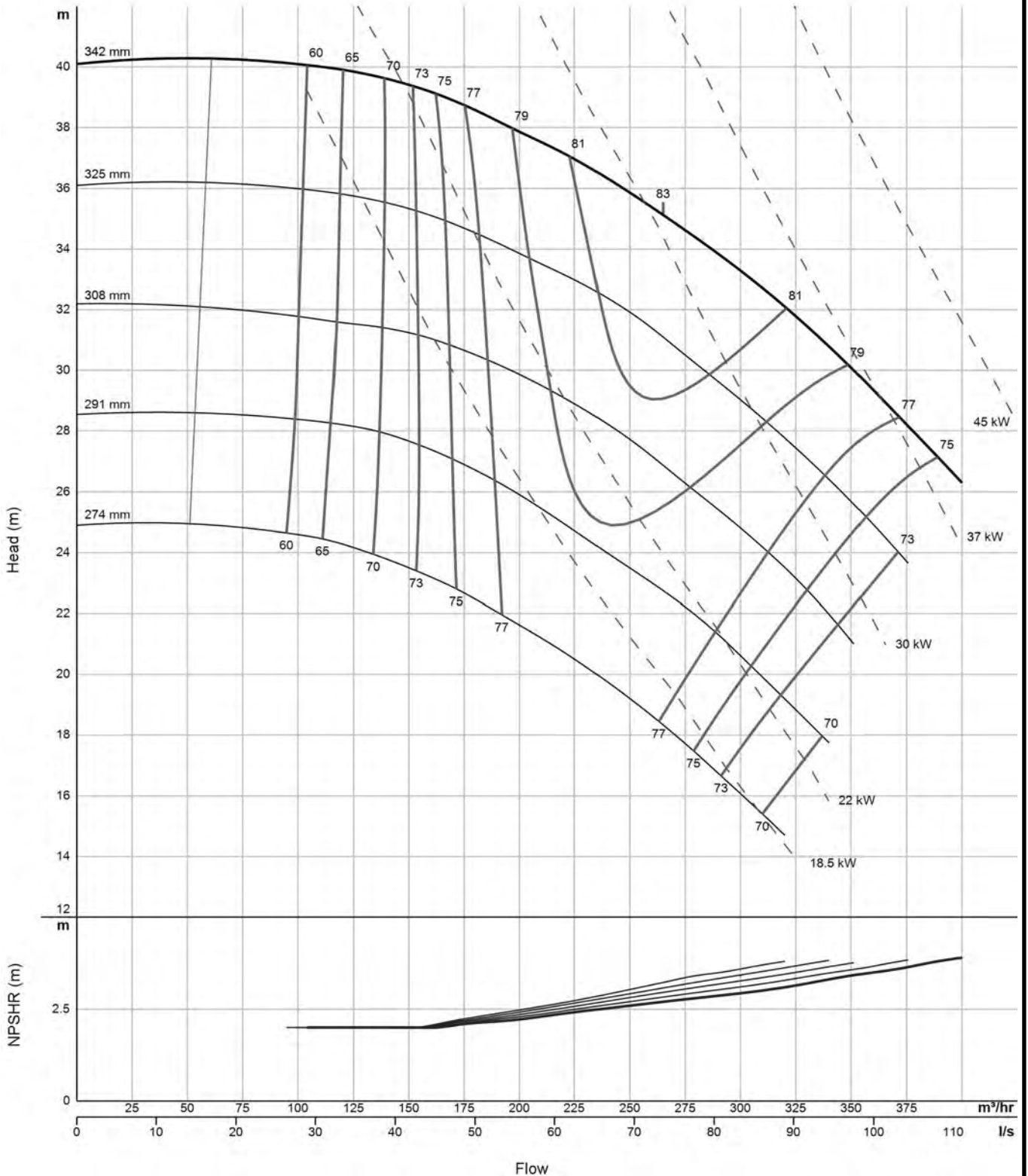


Performance to ISO9906 Grade 2B

150-125-315

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
18.5	274 mm	✓	✓
22	283 mm	✓	✓
30	310 mm	✓	✓
37	328 mm	✓	✓
45	342 mm	✓	✓

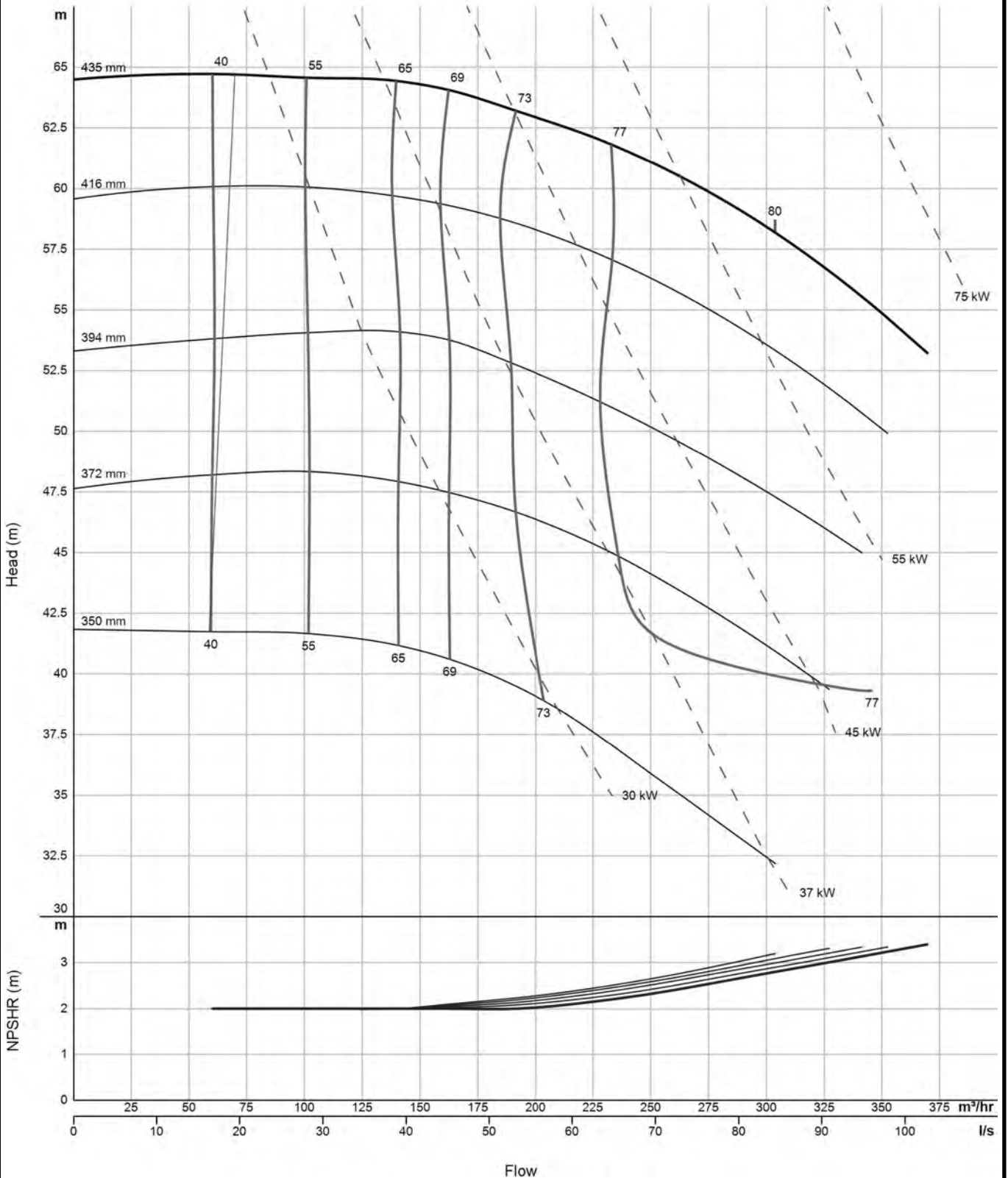


Performance to ISO9906 Grade 2B

150-125-400

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
37	350 mm	✓	✓
45	370 mm	✓	✓
55	397 mm	✓	✗
75	435 mm	✓	✗

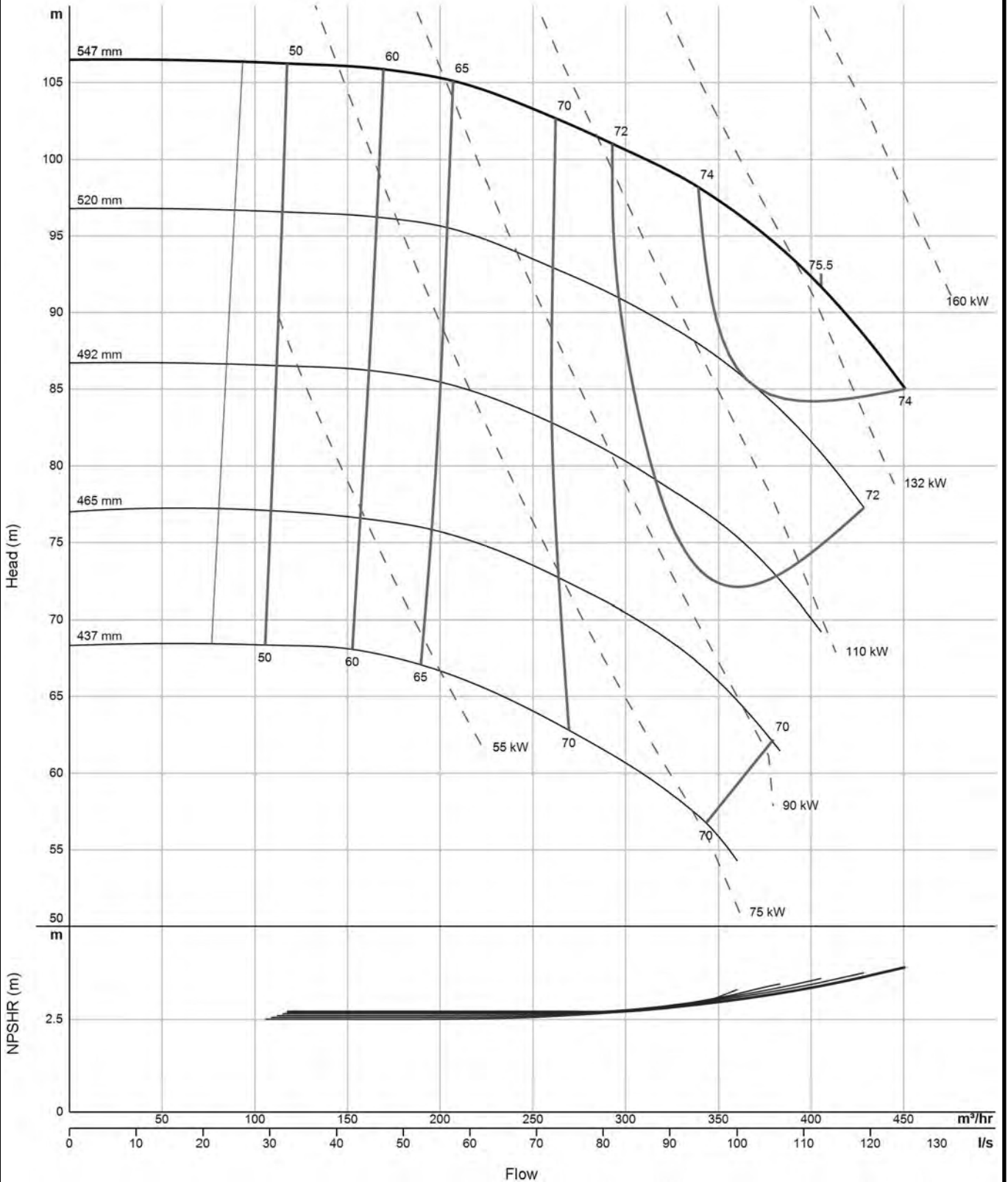


Performance to ISO9906 Grade 2B

150-125-500

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
90	458 mm	✓	✗
110	494 mm	✓	✗
132	532 mm	✓	✗
160	547 mm	✓	✗

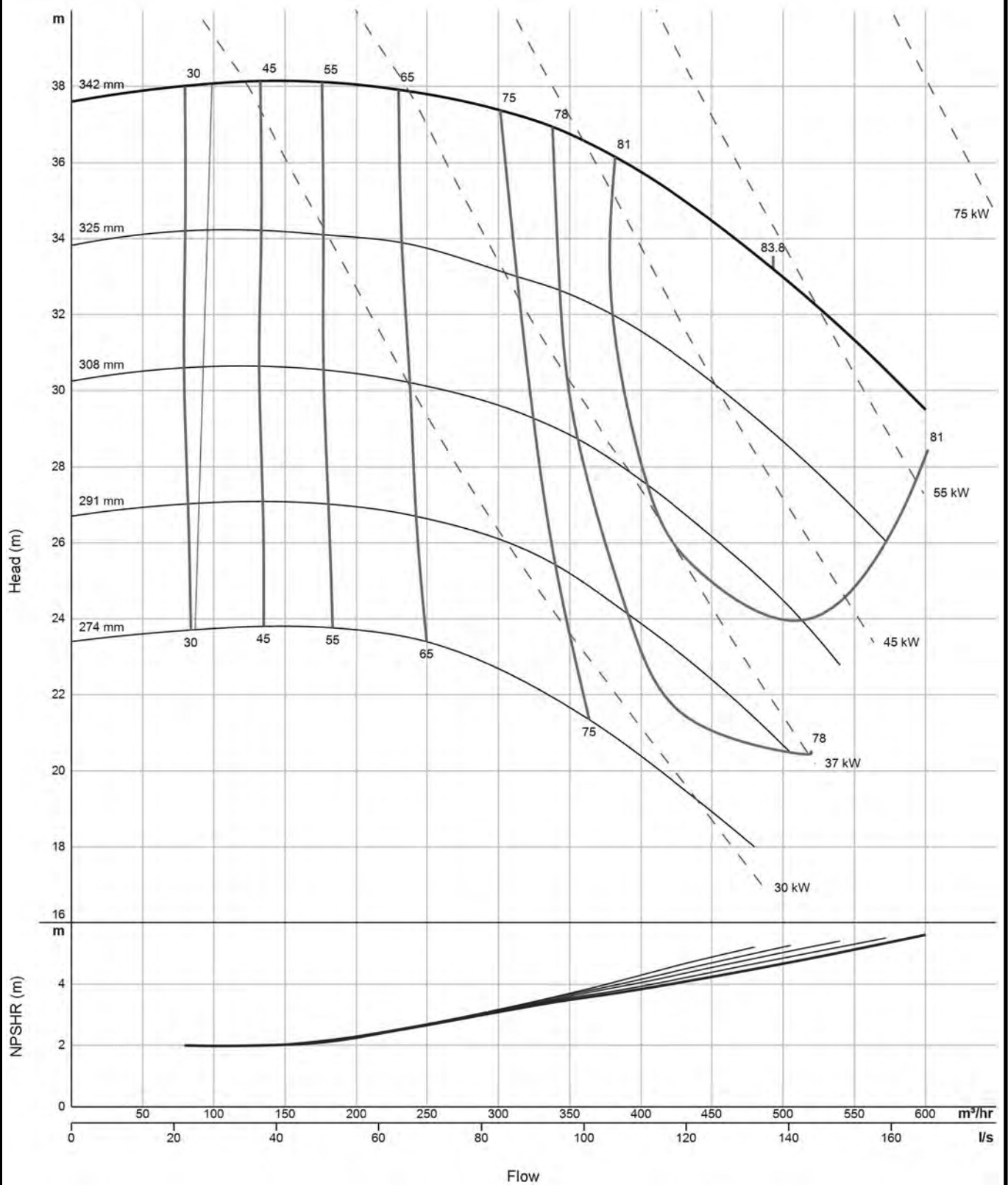


Performance to ISO9906 Grade 2B

200-150-315

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
37	293 mm	✓	✗
45	314 mm	✓	✗
55	334 mm	✓	✗
75	342 mm	✓	✗

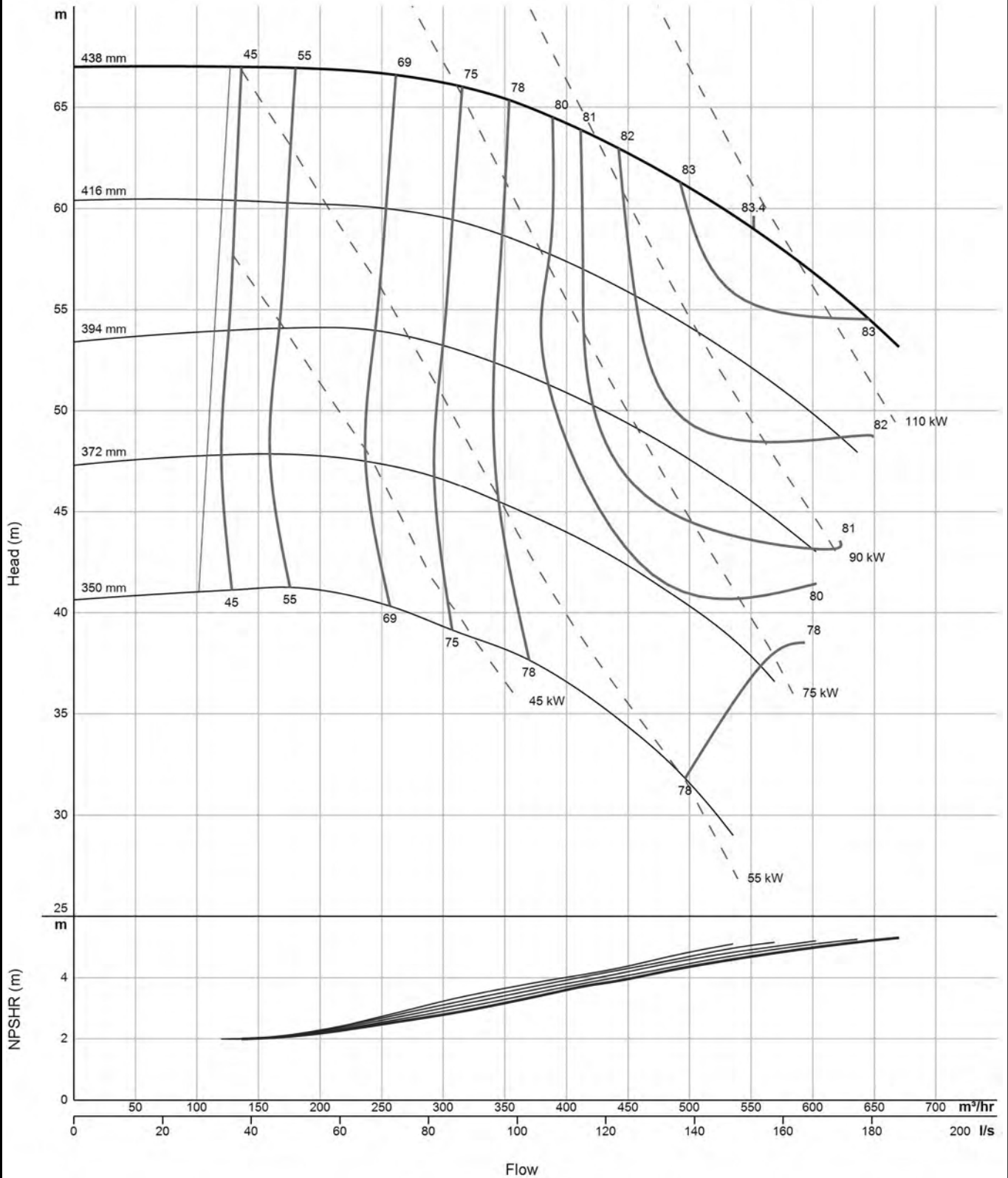


Performance to ISO9906 Grade 2B

200-150-400

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
75	374 mm	✓	✗
90	398 mm	✓	✗
110	428 mm	✓	✗
132	438 mm	✓	✗

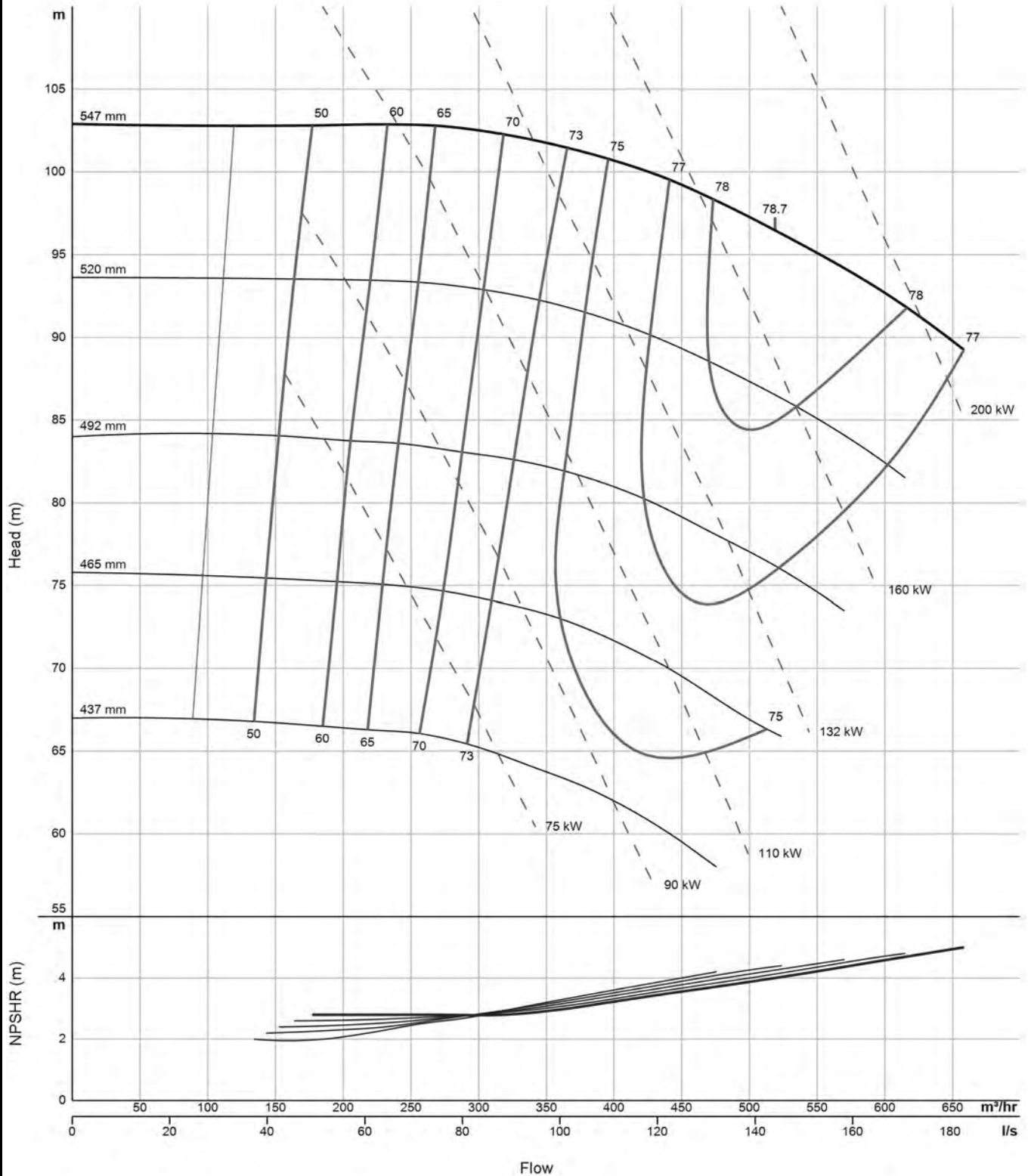


Performance to ISO9906 Grade 2B

200-150-500

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
110	446 mm	✓	✗
132	472 mm	✓	✗
160	502 mm	✓	✗
200	540 mm	✓	✗
250	547 mm	✓	✗

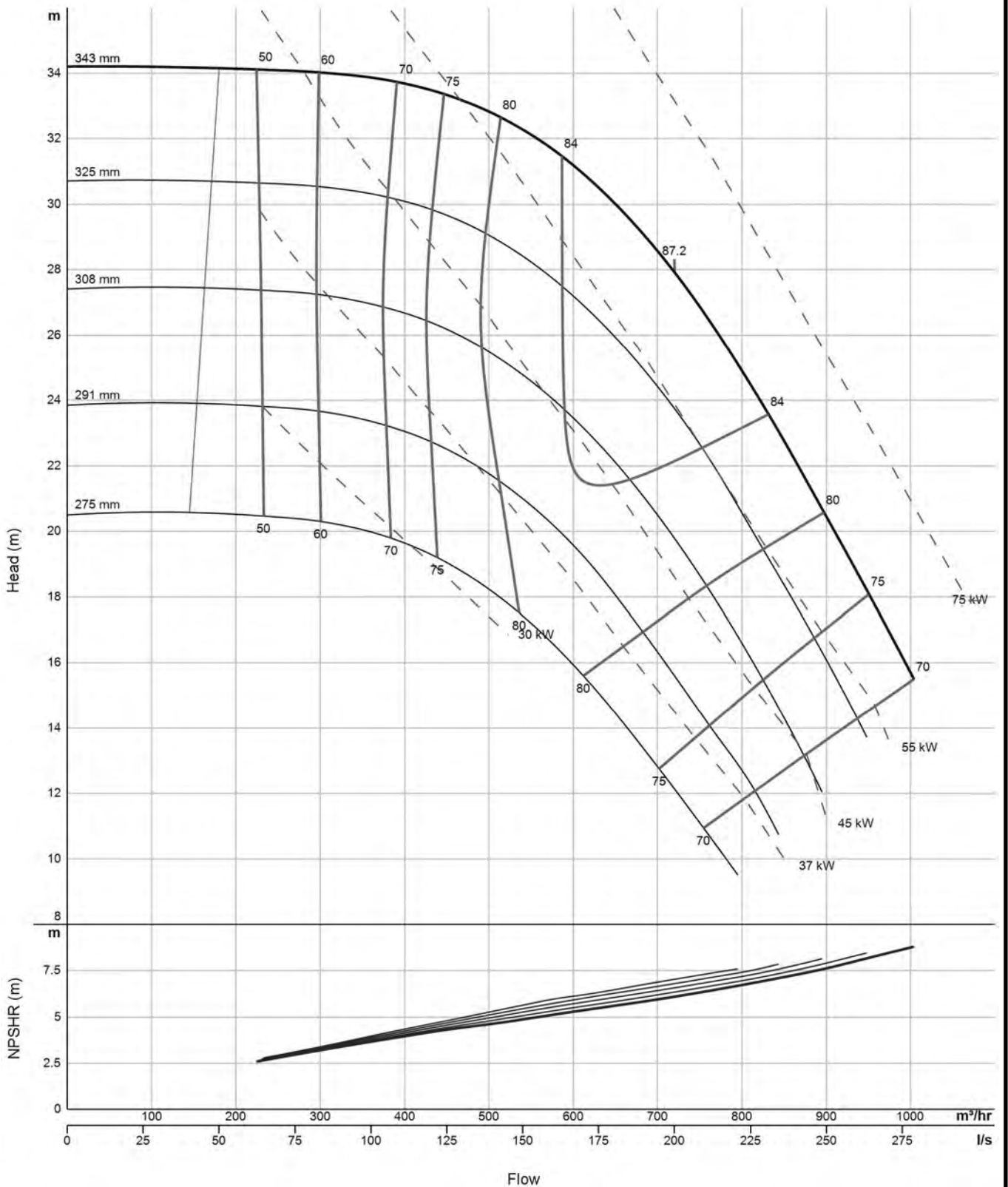


Performance to ISO9906 Grade 2B

250-200-315

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
37	285 mm	✓	✗
45	303 mm	✓	✗
55	325 mm	✓	✗
75	343 mm	✓	✗



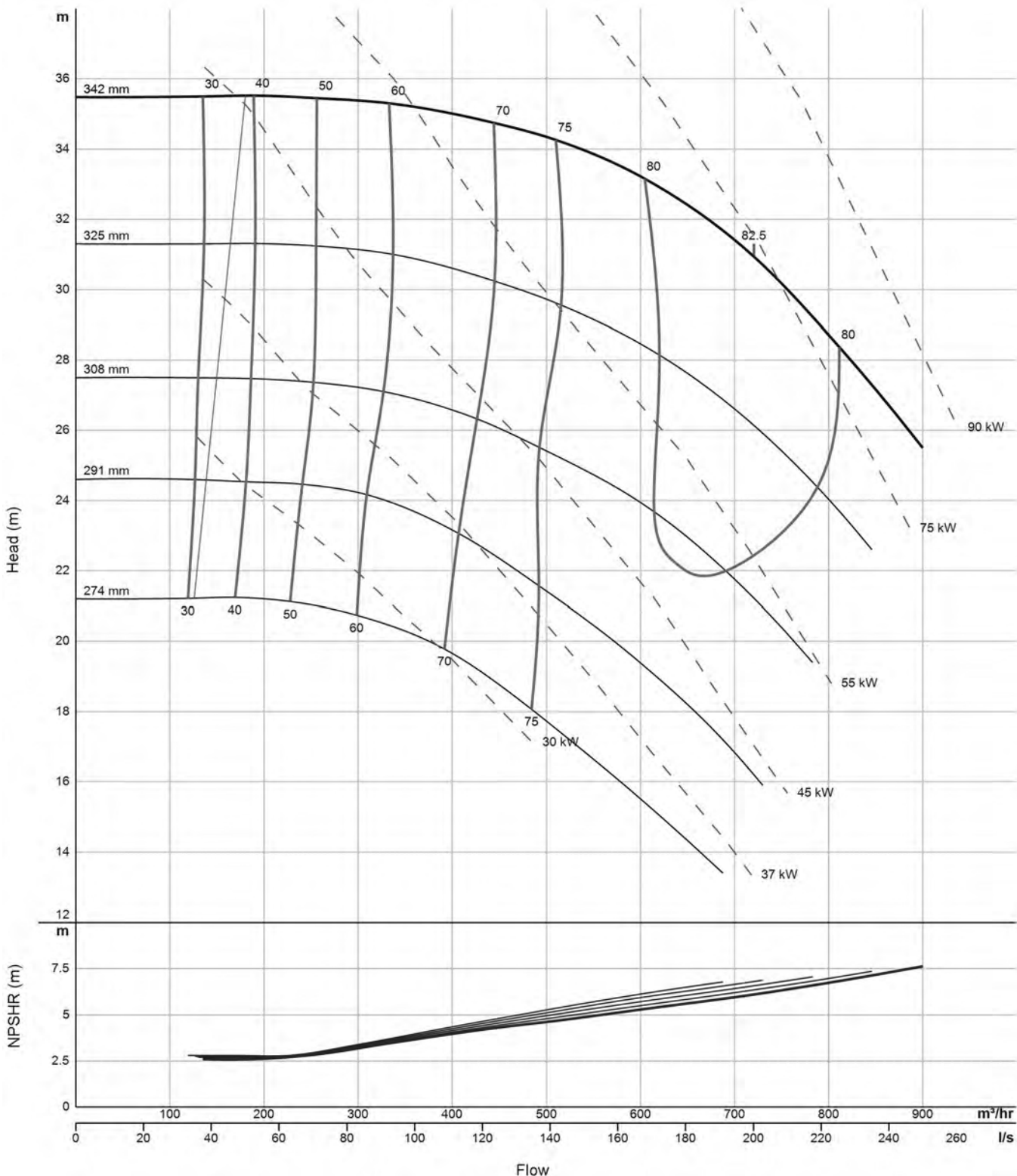
Performance to ISO9906 Grade 2B

250-200-315**

Nom Speed: - 1450Rpm

** This is an alternative volute design with different performance characteristics.

kW	Max Ø	GISO	GIS
37	276 mm	✓	✗
45	297 mm	✓	✗
55	321 mm	✓	✗
75	333 mm	✓	✗
90	342 mm	✓	✗

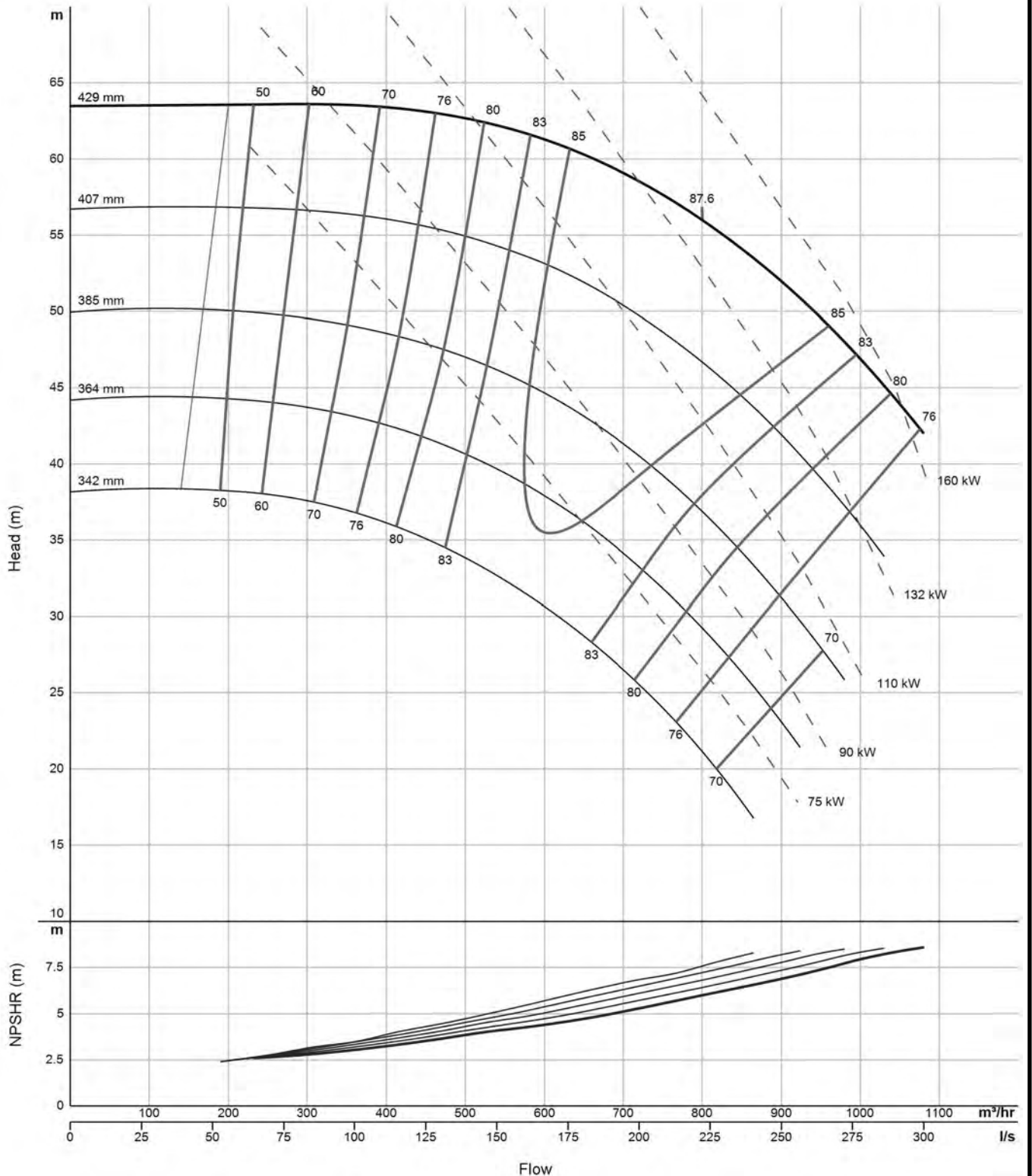


Performance to ISO9906 Grade 2B

250-200-400

Nom Speed: - 1450Rpm

kW	Max Ø	GISO	GIS
90	353 mm	✓	✗
110	379 mm	✓	✗
132	408 mm	✓	✗
160	425 mm	✓	✗
200	429 mm	✓	✗



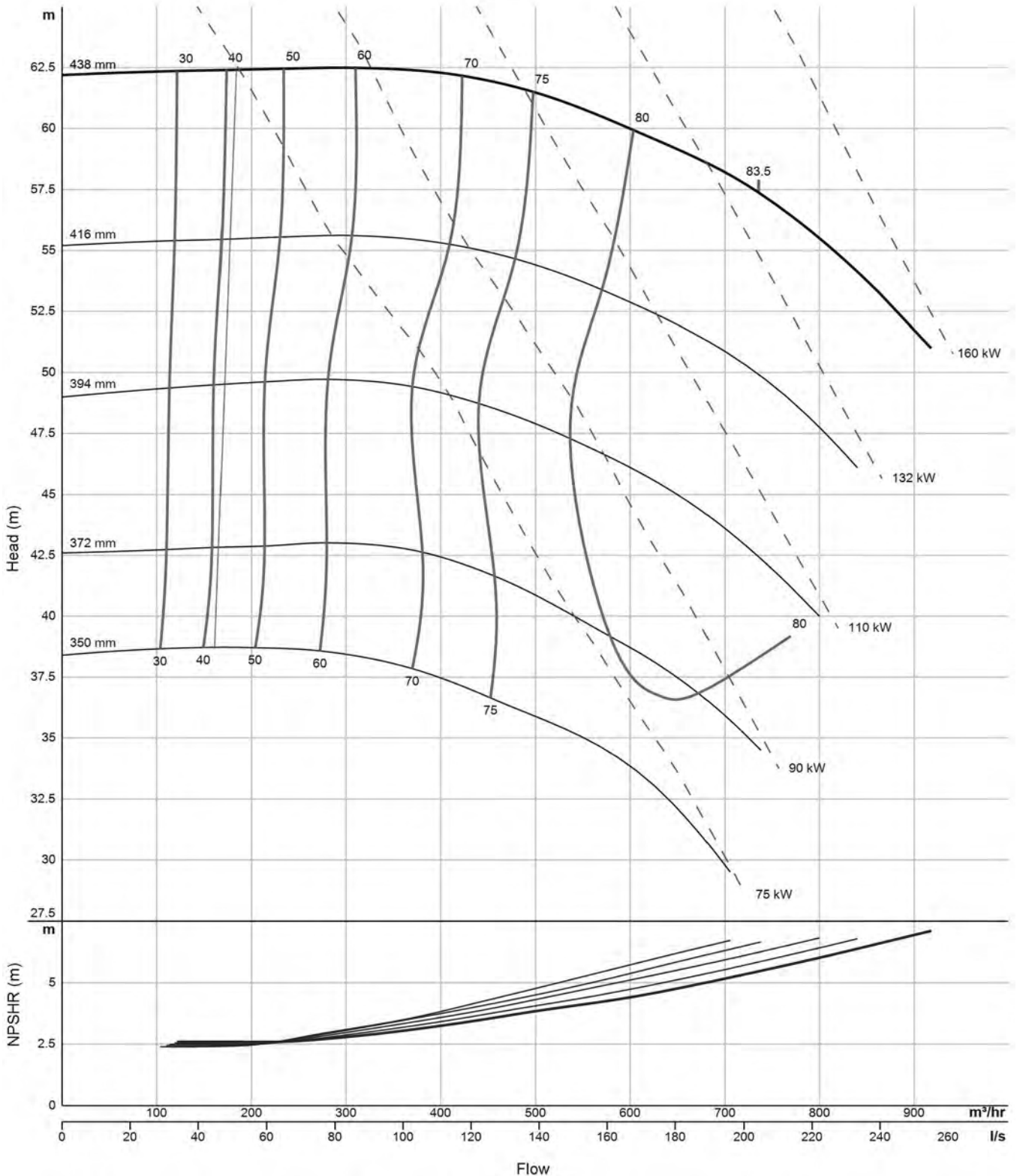
Performance to ISO9906 Grade 2B

250-200-400**

Nom Speed: - 1450Rpm

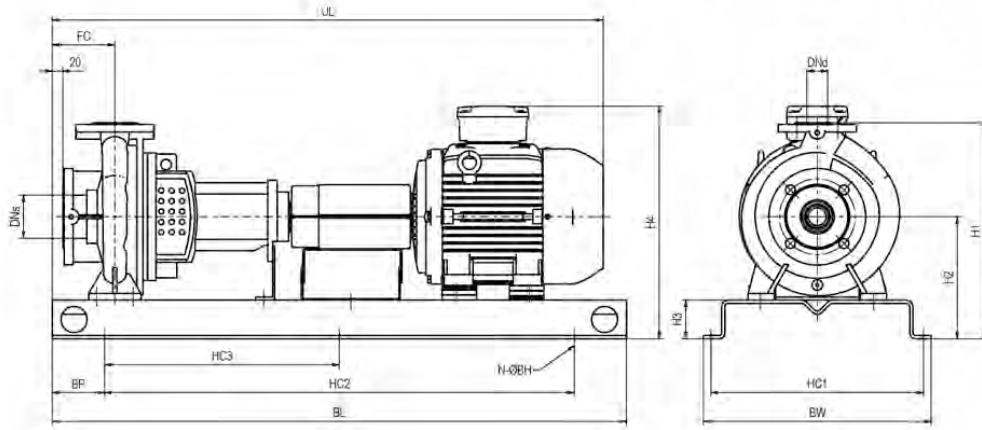
** This is an alternative volute design with different performance characteristics.

kW	Max Ø	GISO	GIS
75	350 mm	✓	✗
90	373 mm	✓	✗
110	396 mm	✓	✗
132	418 mm	✓	✗
160	438 mm	✓	✗



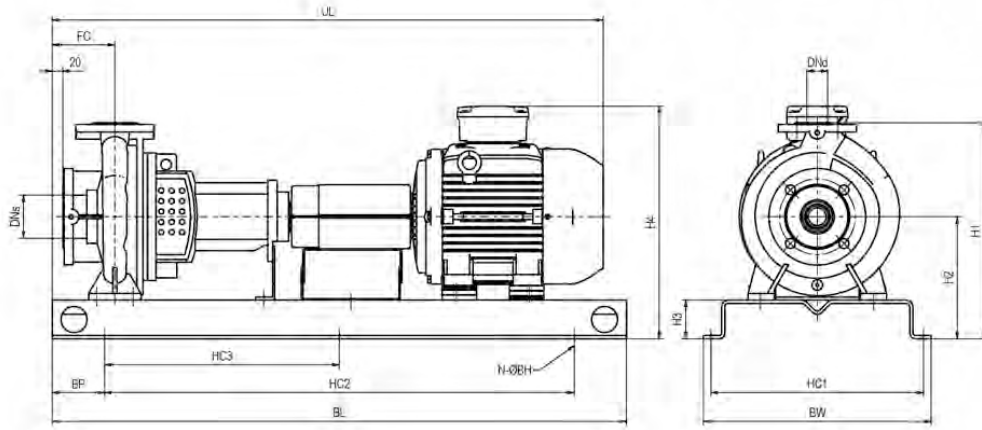
Performance to ISO9906 Grade 2B

GISO End Suction Centrifugal Pump Set Dimensions



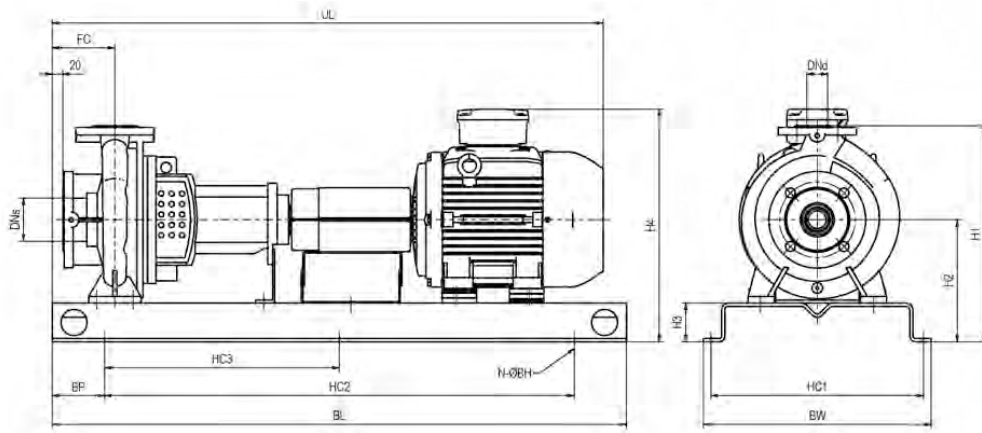
GISO Model	Motor kW		H1	H2	H3	H4	HC1	HC2	HC3	BW	BL	BP	N	ØBH	UL	FC	DNs	DNd	Weight (Kg)
	4P	2P																	
50x32-160	0.75		374	214	74	350	407	700	-	436	900	100	4	15	861	100	50	32	90
50x32-160	1.1		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	100	50	32	TBC
50x32-160		3	366	206	74	400	407	900	450	436	1100	100	6	15	960	100	50	32	107
50x32-160		4	366	206	74	413	407	900	450	436	1100	100	6	15	980	100	50	32	118
50x32-160		5.5	366	206	74	440	407	900	450	436	1100	100	6	15	1040	100	50	32	133
50x32-160		7.5	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	100	50	32	TBC
50x32-200	0.75		414	234	74	370	407	700	-	436	900	100	4	15	861	100	50	32	98
50x32-200	1.1		414	234	74	385	407	700	-	436	900	100	4	15	890	100	50	32	102
50x32-200	1.5		414	234	74	460	407	900	450	436	1100	100	6	15	915	100	50	32	110
50x32-200		7.5	414	234	74	530	407	900	450	436	1100	100	6	15	1036	100	50	32	142
50x32-200		11	414	234	74	530	407	1100	550	436	1300	100	6	15	1185	100	50	32	202
65x40-200	1.1		414	234	74	385	407	700	-	436	900	100	4	15	930	120	65	40	105
65x40-200	1.5		414	234	74	389	407	900	450	436	1100	100	6	15	934	120	65	40	105
65x40-200	2.2		414	234	74	400	407	900	450	436	1100	100	6	15	1000	120	65	40	120
65x40-200		7.5	414	234	74	446	407	900	450	436	1100	100	6	15	1056	120	65	40	142
65x40-200		11	414	234	74	489	407	1100	550	436	1300	100	6	15	1218	120	65	40	203
65x40-200		15	414	234	74	489	407	1100	550	436	1300	100	6	15	1203	120	65	40	203
65x40-250	2.2		479	254	74	419	407	900	450	436	1100	100	6	15	1096	120	65	40	142
65x40-250	3		479	254	74	419	407	900	450	436	1100	100	6	15	1096	120	65	40	142
65x40-250	4		479	254	74	438	407	1100	550	436	1300	100	6	15	1115	120	65	40	158
65x40-250		15	498	273	93	528	595	1300	650	642	1500	100	6	19	1318	120	65	40	267
65x40-250		18.5	498	273	93	528	595	1300	650	642	1500	100	6	19	1363	120	65	40	293
65x40-250		22	498	273	93	548	595	1300	650	642	1500	100	6	19	1384	120	65	40	335
65x40-250		30	518	293	93	593	595	1300	650	642	1500	100	6	19	1486	120	65	40	407
65x40-315	3		534	284	74	449	470	1100	550	510	1300	100	6	15	1121	145	65	40	162
65x40-315	4		536	286	74	469	470	1100	550	510	1300	100	6	15	1140	145	65	40	175
65x40-315	5.5		536	286	74	498	470	1100	550	510	1300	100	6	15	1196	145	65	40	190
65x40-315	7.5		536	286	74	498	470	1100	550	510	1300	100	6	15	1234	145	65	40	190
65x40-315		30	580	330	120	630	676	1500	750	728	1700	100	6	24	1511	145	65	40	441
65x40-315		37	580	330	120	630	676	1500	750	728	1700	100	6	24	1511	145	65	40	441
65x40-315		45	595	345	120	718	676	1500	750	728	1700	100	6	24	1564	145	65	40	613
65x50-160	0.75		374	214	74	350	407	700	-	436	900	100	4	15	861	100	65	50	92
65x50-160	1.1		384	224	74	379	407	700	-	436	900	100	4	15	890	100	65	50	97
65x50-160	1.5		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	100	65	50	TBC
65x50-160		5.5	370	210	74	422	407	900	450	436	1100	100	6	15	1036	100	65	50	135
65x50-160		7.5	370	210	74	422	407	900	450	436	1100	100	6	15	1036	100	65	50	135
65x50-160		11	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	100	65	50	TBC
80x50-200	1.5		444	244	74	399	407	900	450	436	1100	100	6	15	933	120	80	50	117
80x50-200	2.2		444	244	74	409	407	900	450	436	1100	100	6	15	979	120	80	50	125
80x50-200	3		444	244	74	409	407	900	450	436	1100	100	6	15	979	120	80	50	125
80x50-200		11	444	244	74	499	470	1100	550	510	1300	100	6	15	1201	120	80	50	212
80x50-200		15	444	244	74	499	470	1100	550	510	1300	100	6	15	1201	120	80	50	212
80x50-200		18.5	444	244	74	499	470	1100	550	510	1300	100	6	15	1246	120	80	50	238
80x50-200		22	454	254	74	529	470	1100	550	510	1300	100	6	15	1267	120	80	50	282
80x50-250	3		489	264	74	429	407	1100	550	436	1300	100	6	15	1121	145	80	50	150
80x50-250	4		489	264	74	448	407	1100	550	436	1300	100	6	15	1140	145	80	50	161
80x50-250	5.5		489	264	74	476	407	1100	550	436	1300	100	6	15	1196	145	80	50	177
80x50-250	7.5		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	145	80	50	TBC
80x50-250		22	498	273	93	548	595	1300	650	642	1500	100	6	19	1409	145	80	50	337
80x50-250		30	545	320	120	620	676	1500	750	728	1700	100	6	24	1511	145	80	50	433
80x50-250		37	545	320	120	620	676	1500	750	728	1700	100	6	24	1511	145	80	50	433
80x50-250		45	570	345	120	718	676	1500	750	728	1700	100	6	24	1564	145	80	50	607

GISO End Suction Centrifugal Pump Set Dimensions



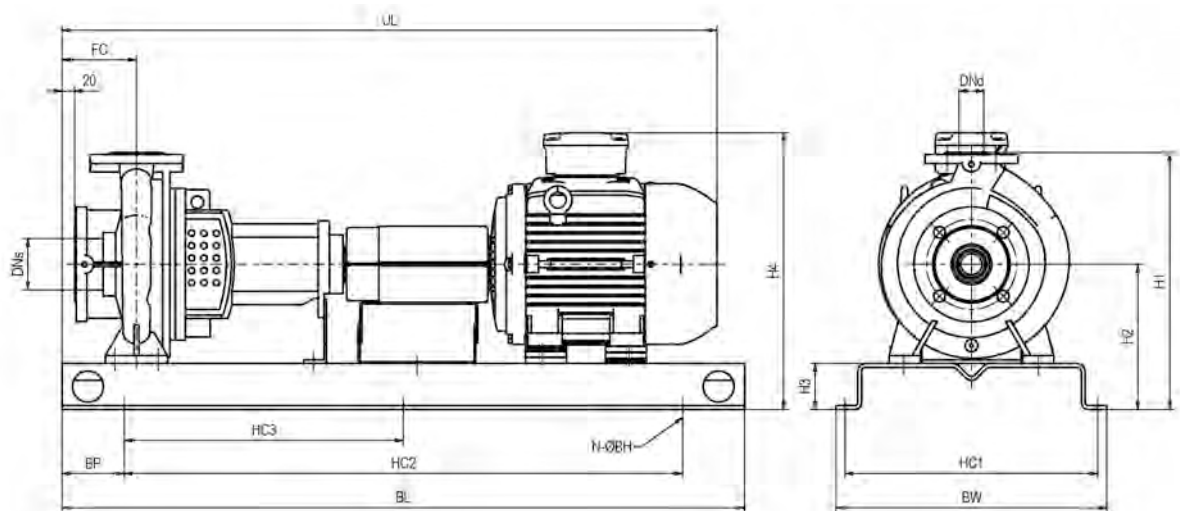
GISO Model	Motor kW		H1	H2	H3	H4	HC1	HC2	HC3	BW	BL	BP	N	ØBH	UL	FC	DNs	DNd	Weight (Kg)
	4P	2P																	
80x50-315	4		580	300	74	484	470	1100	550	510	1300	100	6	15	1140	145	80	50	180
80x50-315	5.5		586	306	74	518	470	1100	550	510	1300	100	6	15	1196	145	80	50	197
80x50-315	7.5		586	306	74	518	470	1100	550	510	1300	100	6	15	1234	145	80	50	216
80x50-315	11		603	323	93	577	595	1300	650	642	1500	100	6	19	1343	145	80	50	216
80x50-315		37	625	345	120	645	676	1500	750	728	1700	100	6	24	1511	145	80	50	448
80x50-315		45	625	345	120	718	676	1500	750	728	1700	100	6	24	1564	145	80	50	618
80x50-315		55	650	370	120	743	676	1500	750	728	1700	100	6	24	1670	145	80	50	700
80x50-315		75	650	370	120	743	676	1500	750	728	1700	100	6	24	1670	145	80	50	794
80x65-160	0.75		414	234	74	370	407	700	-	436	900	100	4	15	881	120	80	65	98
80x65-160	1.1		414	234	74	389	407	900	450	436	1100	100	6	15	909	120	80	65	107
80x65-160	1.5		414	234	74	389	407	900	450	436	1100	100	6	15	933	120	80	65	110
80x65-160		5.5	414	234	74	446	407	900	450	436	1100	100	6	15	1056	120	80	65	141
80x65-160		7.5	414	234	74	446	407	900	450	436	1100	100	6	15	1056	120	80	65	141
80x65-160		11	414	234	74	489	470	1100	550	510	1300	100	6	15	1203	120	80	65	205
80x65-160		15	414	234	74	489	470	1100	550	510	1300	100	6	15	1203	120	80	65	205
100x65-200	3		479	254	74	419	407	900	450	436	1100	100	6	15	1096	120	100	65	141
100x65-200	4		479	254	74	438	407	1100	550	436	1300	100	6	15	1115	120	100	65	157
100x65-200	5.5		491	266	74	478	407	1100	550	436	1300	100	6	15	1171	120	100	65	175
100x65-200		18.5	498	273	93	528	595	1300	650	642	1500	100	6	19	1363	120	100	65	292
100x65-200		22	498	273	93	548	595	1300	650	642	1500	100	6	19	1384	120	100	65	335
100x65-200		30	518	293	93	593	595	1300	650	642	1500	100	6	19	1486	120	100	65	406
100x65-200		37	518	293	93	593	595	1300	650	642	1500	100	6	19	1486	120	100	65	406
100x65-250	5.5		524	274	74	486	470	1100	550	510	1300	100	6	15	1236	145	100	65	189
100x65-250	7.5		524	274	74	486	470	1100	550	510	1300	100	6	15	1274	145	100	65	208
100x65-250	11		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	145	100	65	TBC
100x65-250		37	570	320	120	620	676	1500	750	728	1700	100	6	24	1551	145	100	65	441
100x65-250		45	595	345	120	718	676	1500	750	728	1700	100	6	24	1604	145	100	65	615
100x65-250		55	620	370	120	743	784	1750	875	844	1950	100	6	24	1710	145	100	65	788
100x65-250		75	620	370	120	743	784	1750	875	844	1950	100	6	24	1710	145	100	65	788
100x65-315	11		598	318	93	568	595	1300	650	642	1500	100	6	19	1413	145	100	65	325
100x65-315	15		598	318	93	573	595	1300	650	642	1500	100	6	19	1458	145	100	65	350
100x65-315		75	650	370	120	743	784	1750	875	844	1950	100	6	24	1740	145	100	65	823
100x65-315		90	680	400	120	866	784	1750	875	844	1950	100	6	24	1852	145	100	65	1173
100x65-315		110	680	400	120	866	784	1750	875	844	1950	100	6	24	1852	145	100	65	1173
100x65-315		132	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	145	100	65	TBC
100x80-160	1.5		434	234	74	389	407	900	450	436	1100	100	6	15	1050	120	100	80	130
100x80-160	2.2		434	234	74	399	407	900	450	436	1100	100	6	15	1096	120	100	80	138
100x80-160	3		434	234	74	399	407	900	450	436	1100	100	6	15	1096	120	100	80	138
100x80-160		11	453	253	93	508	595	1300	650	642	1500	100	6	19	1318	120	100	80	265
100x80-160		15	453	253	93	508	595	1300	650	642	1500	100	6	19	1318	120	100	80	265
100x80-160		18.5	453	253	93	508	595	1300	650	642	1500	100	6	19	1363	120	100	80	290
100x80-160		22	473	273	93	548	595	1300	650	642	1500	100	6	19	1384	120	100	80	335
125x80-400	18.5		728	373	93	648	595	1300	650	642	1500	100	6	19	1479	145	125	80	440
125x80-400	22		755	400	120	675	676	1500	750	728	1700	100	6	24	1517	145	125	80	485
125x80-400	30		755	400	120	700	676	1500	750	728	1700	100	6	24	1581	145	125	80	537
125x80-400	37		755	400	120	700	676	1500	750	728	1700	100	6	24	1581	145	125	80	537
125x100-200	4		566	286	74	470	470	1100	550	510	1300	100	6	15	1180	145	125	100	180

GISO End Suction Centrifugal Pump Set Dimensions



GISO Model	Motor kW		H1	H2	H3	H4	HC1	HC2	HC3	BW	BL	BP	N	ØBH	UL	FC	DNs	DNd	Weight Kg
	4P	2P																	
125x100-200	5.5		554	274	74	486	470	1100	550	510	1300	100	6	15	1236	145	125	100	194
125x100-200	7.5		554	274	74	486	470	1100	550	510	1300	100	6	15	1274	145	125	100	213
125x100-200	11		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	145	125	100	TBC
125x100-200		30	610	330	120	630	676	1500	750	728	1700	100	6	24	1551	145	125	100	448
125x100-200		37	610	330	120	630	676	1500	750	728	1700	100	6	24	1551	145	125	100	448
125x100-200		45	625	345	120	718	676	1500	750	728	1700	100	6	24	1604	145	125	100	620
125x100-200		55	650	370	120	743	784	1750	875	844	1950	100	6	24	1710	145	125	100	793
125x100-200		75	650	370	120	743	784	1750	875	844	1950	100	6	24	1710	145	125	100	796
125x100-250	7.5		605	325	93	537	595	1300	650	642	1500	100	6	19	1319	160	125	100	291
125x100-250	11		598	318	93	573	595	1300	650	642	1500	100	6	19	1428	160	125	100	330
125x100-250	15		598	318	93	573	595	1300	650	642	1500	100	6	19	1473	160	125	100	361
125x100-250		75	650	370	120	743	784	1750	875	844	1950	100	6	24	1755	160	125	100	835
125x100-250		90	680	400	120	866	784	1750	875	844	1950	100	6	24	1867	160	125	100	1181
125x100-250		110	680	400	120	866	784	1750	875	844	1950	100	6	24	1867	160	125	100	1186
125x100-250		132	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	160	125	100	TBC
125x100-315	15		668	353	93	608	595	1300	650	642	1500	100	6	19	1473	160	125	100	373
125x100-315	18.5		658	343	93	613	595	1300	650	642	1500	100	6	19	1494	160	125	100	409
125x100-315	22		685	370	120	645	676	1500	750	728	1700	100	6	24	1532	160	125	100	455
125x100-315	30		695	380	120	680	676	1500	750	728	1700	100	6	24	1596	160	125	100	507
125x100-315		110	715	400	120	866	784	1750	875	844	1950	100	6	24	1867	160	125	100	1175
125x100-315		132	750	435	120	932	862	2050	1025	950	2250	100	6	28	1957	160	125	100	1445
125x100-315		160	750	435	120	932	862	2050	1025	950	2250	100	6	28	1957	160	125	100	1445
125x100-315		200	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	160	125	100	TBC
125x100-400	30		775	420	120	720	676	1500	750	728	1700	100	6	24	1596	160	125	100	549
125x100-400	37		775	420	120	720	676	1500	750	728	1700	100	6	24	1596	160	125	100	549
125x100-400	45		765	410	120	783	676	1500	750	728	1700	100	6	24	1679	160	125	100	721
125x100-500	55		925	475	120	848	862	2050	1025	950	2250	100	6	28	1955	180	125	100	1165
125x100-500	75		925	475	120	848	862	2050	1025	950	2250	100	6	28	1955	180	125	100	1165
125x100-500	90		925	475	120	938	862	2050	1025	950	2250	100	6	28	2097	180	125	100	1499
125x100-500	110		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	180	125	100	TBC
150x125-250	11		708	353	93	608	595	1300	650	642	1500	100	6	19	1428	160	150	125	348
150x125-250	15		708	353	93	603	595	1300	650	642	1500	100	6	19	1473	160	150	125	377
150x125-250	18.5		698	343	93	618	595	1300	650	642	1500	100	6	19	1494	160	150	125	414
150x125-250	22		725	370	120	645	676	1500	750	728	1500	100	6	24	1532	160	150	125	459
150x125-315	18.5		728	373	93	643	595	1300	650	642	1500	100	6	19	1495	160	150	125	425
150x125-315	22		755	400	120	675	676	1500	750	728	1700	100	6	24	1532	160	150	125	470
150x125-315	30		755	400	120	700	676	1500	750	728	1700	100	6	24	1596	160	150	125	522
150x125-315	37		755	400	120	700	676	1500	750	728	1700	100	6	24	1596	160	150	125	522
150x125-315	45		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	160	150	125	TBC
150x125-400	37		835	435	120	735	676	1500	750	728	1700	100	6	24	1596	160	150	125	559
150x125-400	45		845	445	120	818	676	1500	750	728	1700	100	6	24	1679	160	150	125	735
150x125-400	55		835	435	120	808	784	1750	875	844	1950	100	6	24	1755	160	150	125	946
150x125-400	75		835	435	120	808	784	1750	875	844	1950	100	6	24	1755	160	150	125	946
150x125-500	90		945	495	120	958	862	2050	1025	950	2250	100	6	28	2097	180	150	125	1525
150x125-500	110		945	495	120	958	862	2050	1025	950	2250	100	6	28	2097	180	150	125	1525
150x125-500	132		945	495	120	992	922	2050	1025	1010	2250	100	6	28	2187	180	150	125	1715
150x125-500	160		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	180	150	125	TBC
200x150-315	37		835	435	120	730	784	1750	875	844	1950	100	6	24	1796	180	200	150	688

GISO End Suction Centrifugal Pump Set Dimensions



GISO Size	Motor kW 4P	2P	H1	H2	H3	H4	HC1	HC2	HC3	BW	BL	BP	N	ØBH	UL	FC	DNs	DNd	Weight Kg
200x150-315	45		835	435	120	808	784	1750	875	844	1950	100	6	24	1879	180	200	150	861
200x150-315	55		835	435	120	808	862	2050	1025	950	2250	100	6	28	1955	180	200	150	1071
200x150-315	75		835	435	120	808	862	2050	1025	950	2250	100	6	28	1955	180	200	150	1071
200x150-400	75		920	470	120	843	862	2050	1025	950	2250	100	6	28	1955	180	200	150	1155
200x150-400	90		910	460	120	923	862	2050	1025	950	2250	100	6	28	2097	180	200	150	1488
200x150-400	110		910	460	120	923	862	2050	1025	950	2250	100	6	28	2097	180	200	150	1488
200x150-400	132		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	180	200	150	TBC
200x150-500	110		1020	520	120	983	862	2050	1025	950	2250	100	6	28	2097	180	200	150	1571
200x150-500	132		1020	520	120	1017	922	2050	1025	1010	2250	100	6	28	2187	180	200	150	1759
200x150-500	160		1020	520	120	1017	922	2050	1025	1010	2250	100	6	28	2187	180	200	150	1759
200x150-500	200		1020	520	120	1017	922	2050	1025	1010	2250	100	6	28	2187	180	200	150	1759
200x150-500	250		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	180	200	150	TBC
250x200-315	30		910	460	120	755	784	1750	875	844	1950	100	6	24	1816	200	250	200	747
250x200-315	37		910	460	120	755	784	1750	875	844	1950	100	6	24	1816	200	250	200	747
250x200-315	45		910	460	120	833	784	1750	875	844	1950	100	6	24	1899	200	250	200	921
250x200-315	55		910	460	120	833	862	2050	1025	950	2250	100	6	28	1975	200	250	200	1131
250x200-315	75		910	460	120	833	862	2050	1025	950	2250	100	6	28	1975	200	250	200	1131
250x200-400	90		995	495	120	958	862	2050	1025	950	2250	100	6	28	2117	200	250	200	1530
250x200-400	110		995	495	120	958	862	2050	1025	950	2250	100	6	28	2117	200	250	200	1530
250x200-400	132		995	495	120	992	922	2050	1025	1010	2250	100	6	28	2207	200	250	200	1718
250x200-400	160		995	495	120	992	922	2050	1025	101	2250	100	6	28	2207	200	250	200	1718
250x200-400	200		TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	200	250	200	TBC

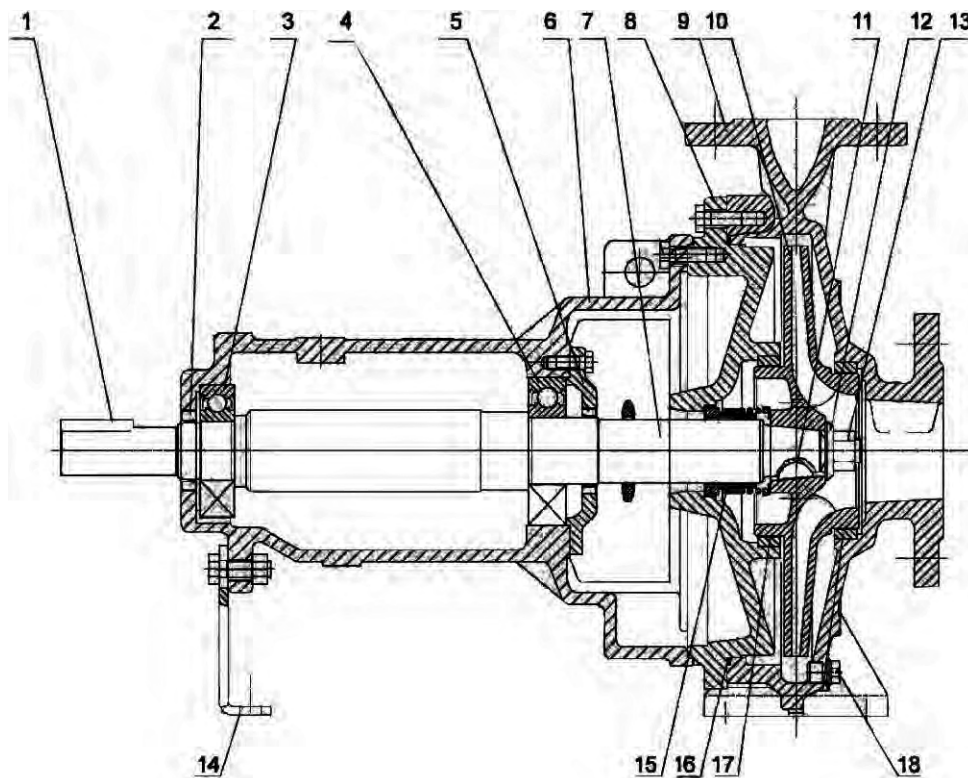
GISO Flange Data

NOTES:

1. Standard flange drilling to AS2129 -1982 Table "E"
2. Other flange patterns available upon request
3. Dimensions subject to change without notice.
4. Motor dimensions and data may vary dependent on motor type /brand.
5. All dimensions are in mm

Nominal Size DNs / DNd (mm)	Pitch Circle Diameter (mm)	No of Holes	Diameter of Holes (mm)	Fastener Size
32	87	4	14	M12
40	98	4	14	M12
50	114	4	18	M16
65	127	4	18	M16
80	146	4	18	M16
100	178	8	18	M16
125	210	8	18	M16
150	235	8	22	M20
200	292	8	22	M20
250	356	12	22	M20
300	406	12	26	M24

GISO End Suction Centrifugal Pump - GISO Pump Grease - Lubricated Sectional Drawing

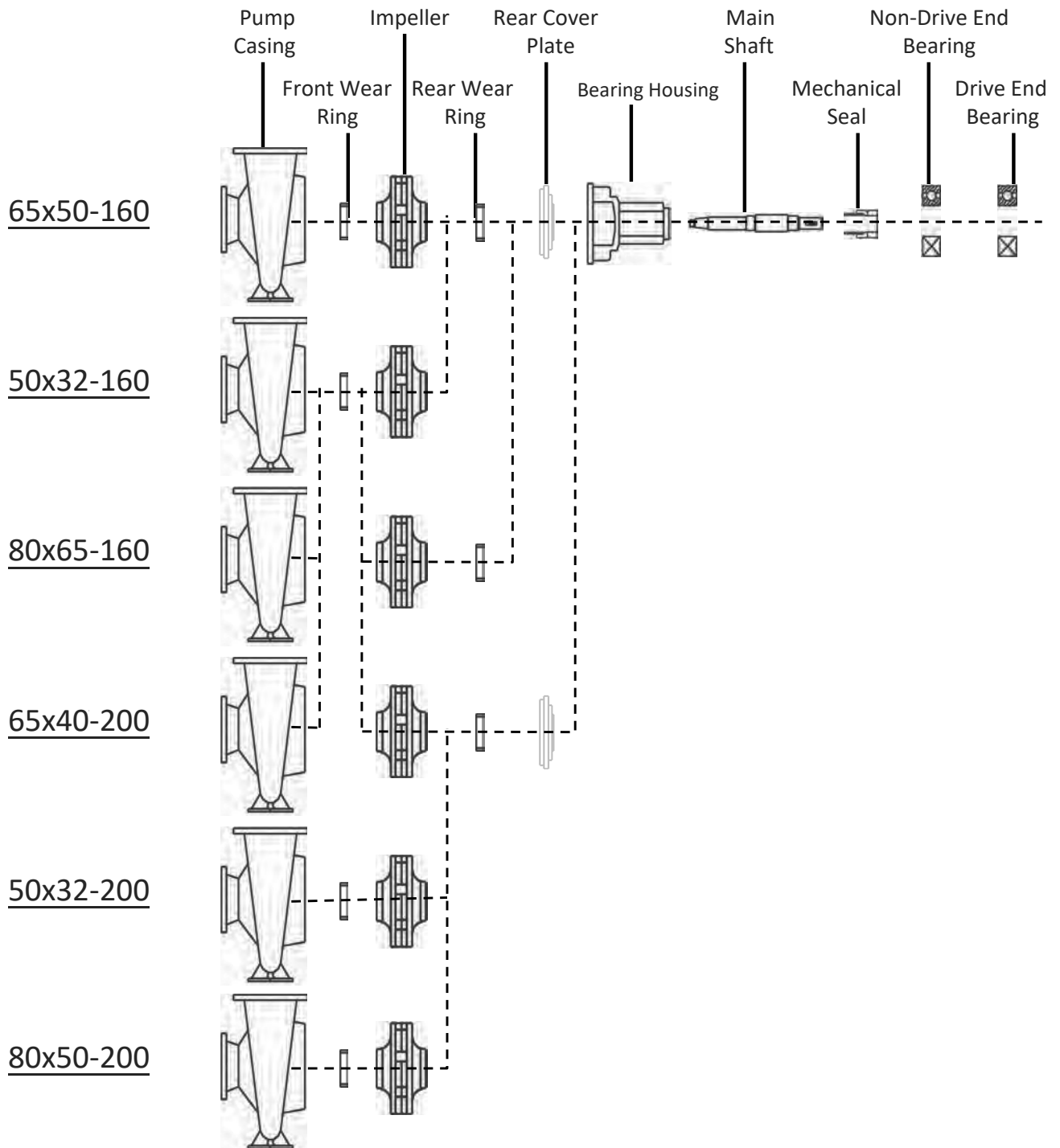


No.	Description	Standard Materials
1	Coupling Key	Nickl Plated Steel
2	Oil Sea	Nitrile Rubber
3	Bearing-Driver End	Ball Bearing
4	Bearingnd-Driver End	Ball Bearing
5	Bearing Cover	Cast Iron
6	Bearing Housing	Cast Iron
7	Shaft	SS 420
8	Back Plate	Cast Iron
9	Pump Casing	Cast Iron

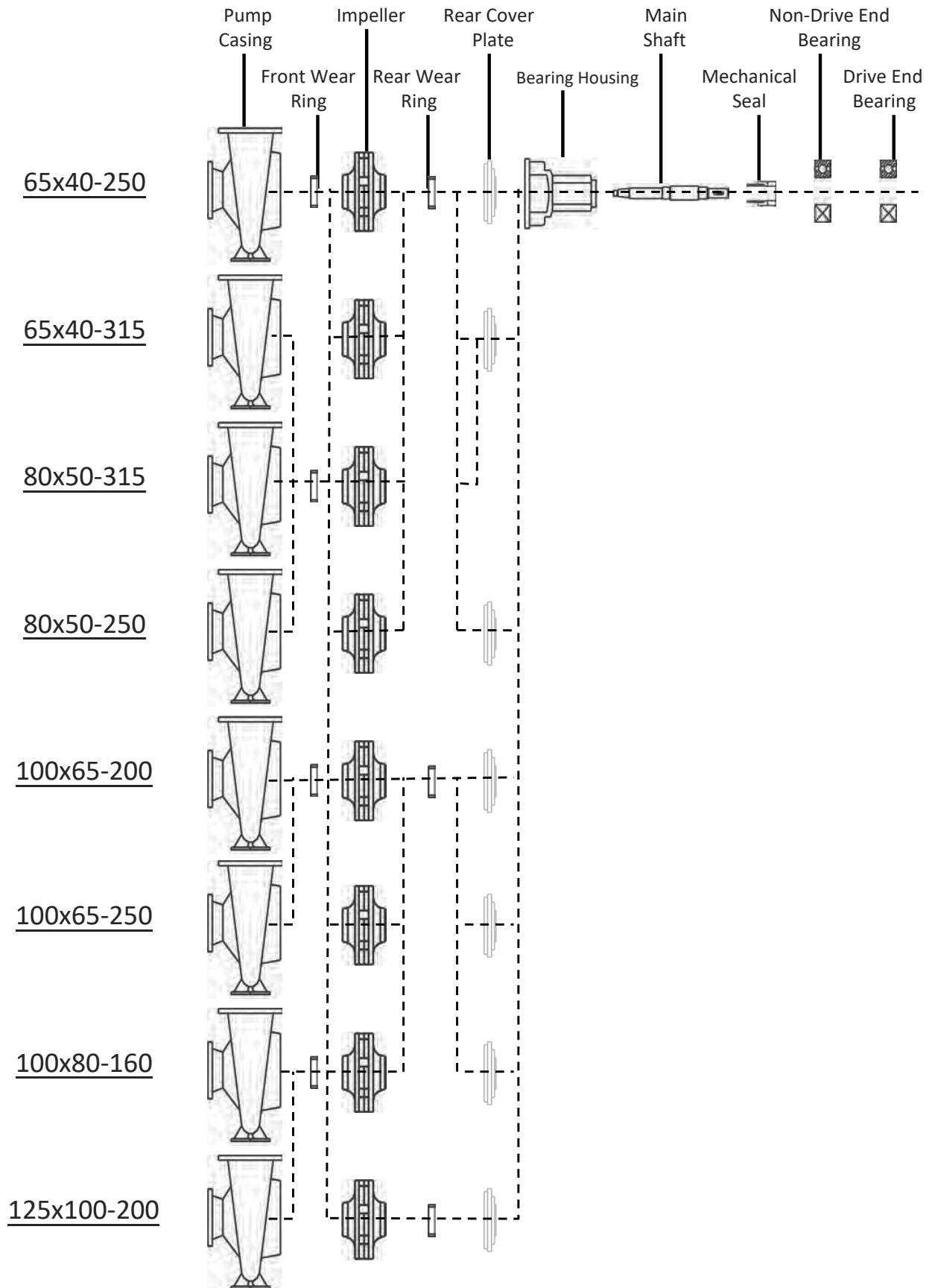
No.	Description	Standard Materials
10	Impeller	SS 304
11	Half Round Key	SS 304
12	Impeller Washer	SS 304
13	Impeller Nut	SS 304
14	Foot Support	Mild Steel
15	Mechanical Seal	Carbon/Ceramic/EPDM
16	Rear Wear Ring	Bronze
17	Front Wear Ring	Bronze
18	Drain Plug	Malleable Steel

*Note Group 4 GISO has no rear wear ring.

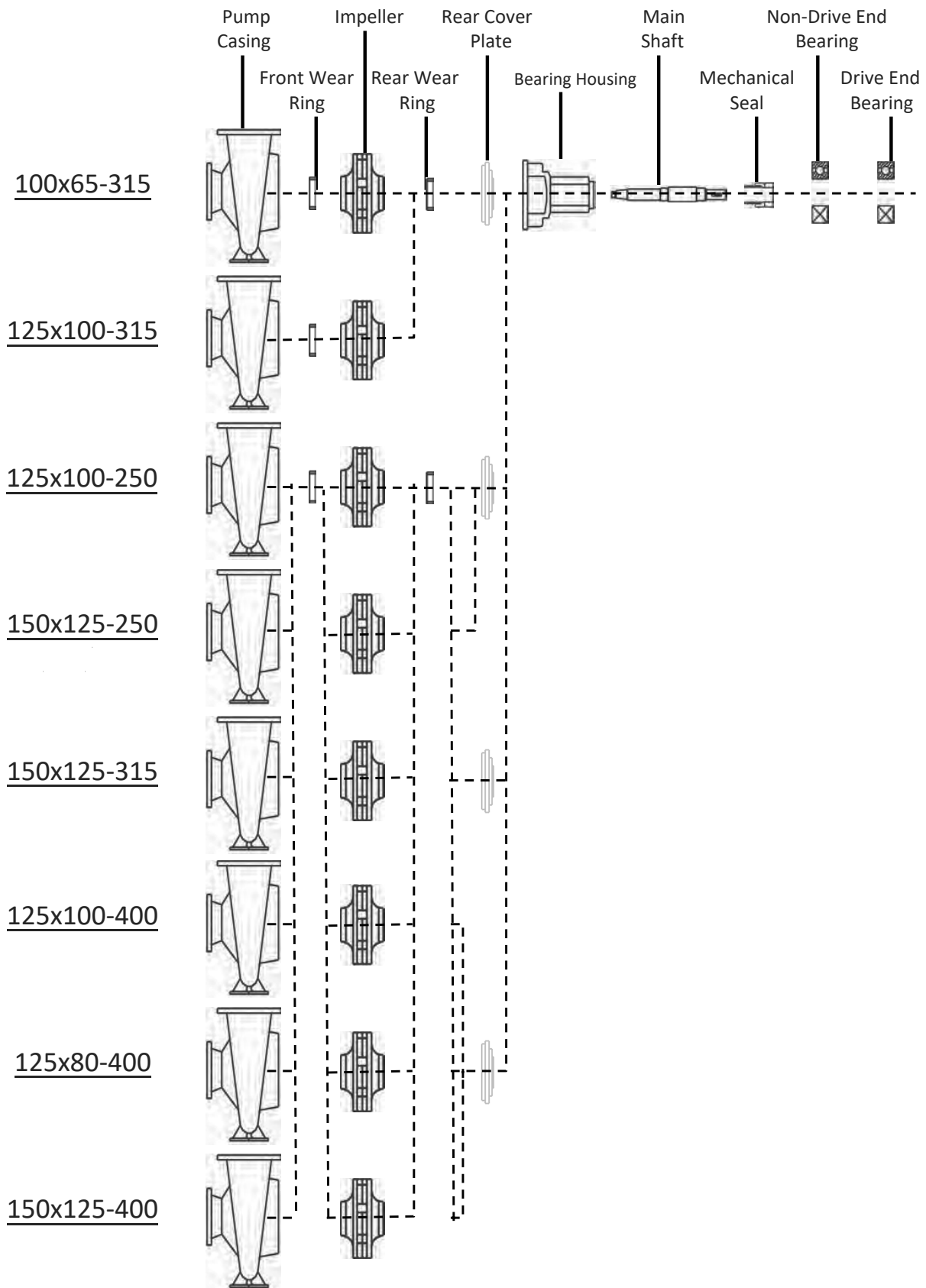
GISO End Suction Centrifugal Pump - GISO Pump Component Interchangeability Module #1



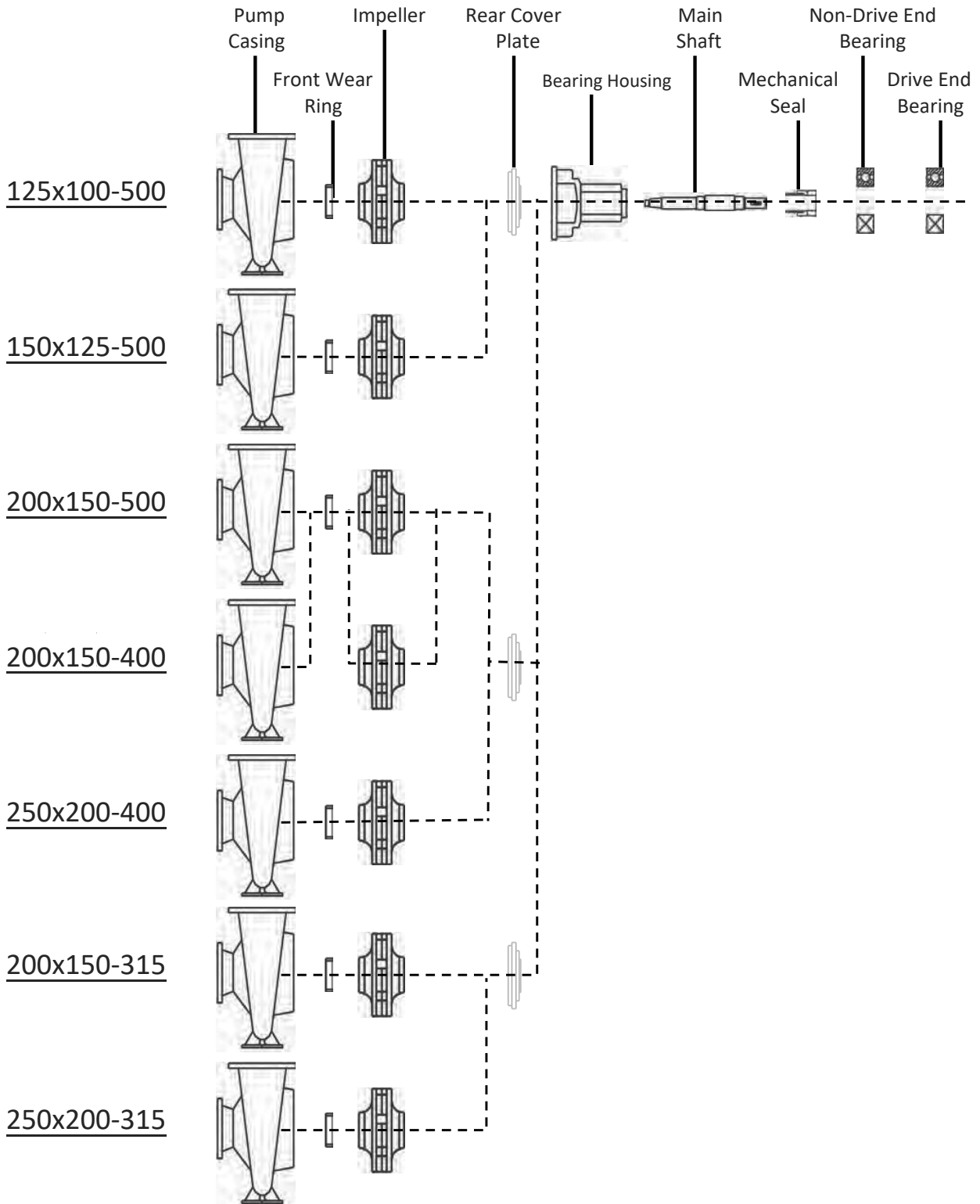
GISO End Suction Centrifugal Pump - GISO Pump Component Interchangeability Module #2



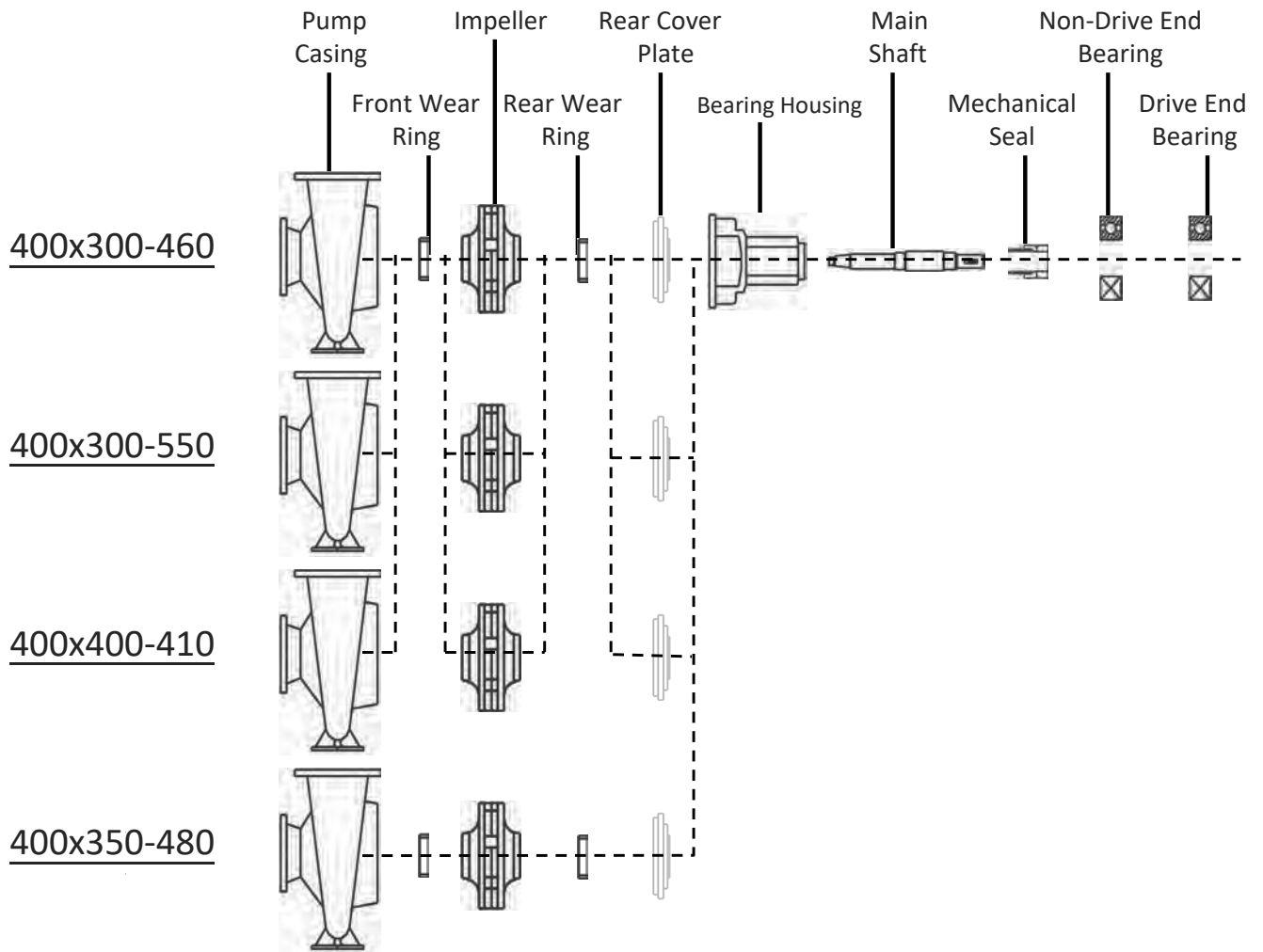
GISO End Suction Centrifugal Pump - GISO Pump Component Interchangeability Module #3



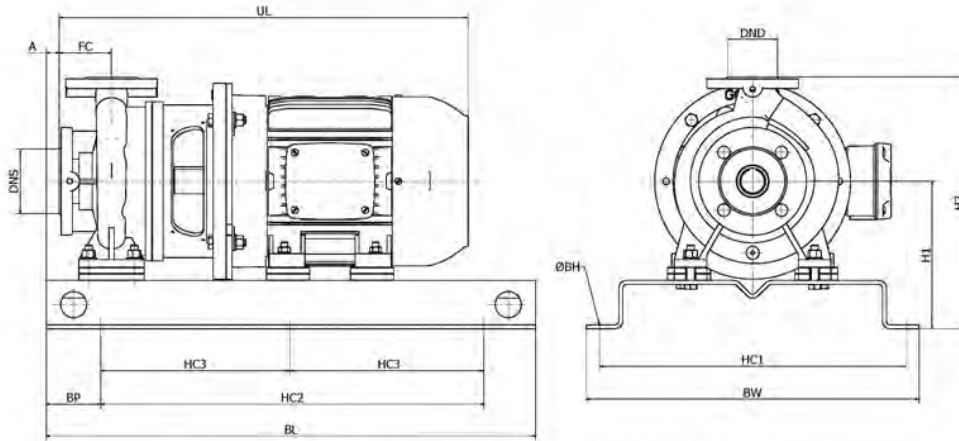
GISO End Suction Centrifugal Pump - GISO Pump Component Interchangeability Module #4



GISO End Suction Centrifugal Pump - GISO Pump Component Interchangeability Module #5

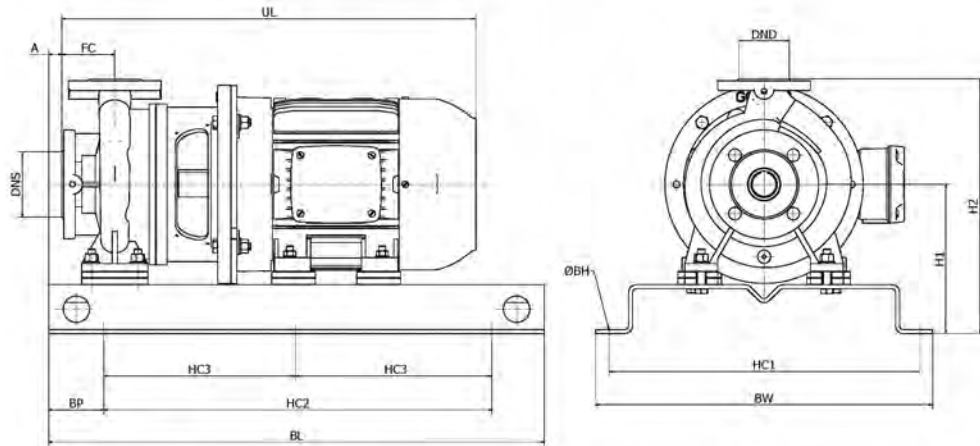


GIS End Suction Centrifugal Pump Set Dimensions



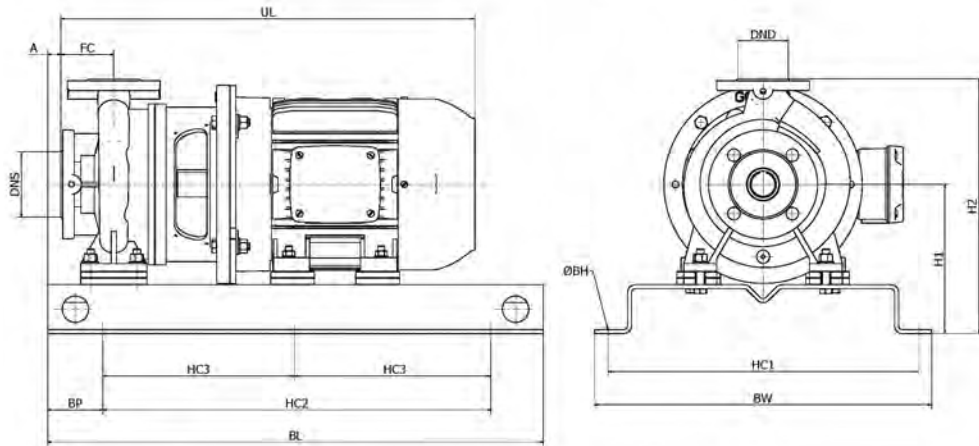
GIS Model	4P kW	2P kW	UL	BL	BW	DNS	DND	H1	H2	FC	HC1	HC2	HC3	∅ BH	BP	A	Weight (Kg)
50x32-160	0.75		451	600	436	50	32	214	374	80	407	400	N/A	15	100	20	74
50x32-160	1.1		TBC	TBC	TBC	50	32	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
50x32-160		3	542	600	436	50	32	206	366	80	407	400	N/A	15	100	20	91.5
50x32-160		4	561	600	436	50	32	206	366	80	407	400	N/A	15	100	20	99.5
50x32-160		5.5	627	750	510	50	32	226	386	80	470	550	N/A	15	100	20	126.5
50x32-160		7.5	TBC	TBC	TBC	50	32	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
50x32-200	0.75		451	600	436	50	32	234	414	80	407	400	N/A	15	100	20	81
50x32-200	1.1		469	600	436	50	32	234	414	80	407	400	N/A	15	100	20	90
50x32-200	1.5		542	600	436	50	32	234	414	80	407	400	N/A	15	100	20	100
50x32-200		7.5	626	750	510	50	32	234	414	80	470	550	N/A	15	100	20	145.5
50x32-200		11	778	900	577	50	32	273	453	80	528	700	N/A	15	100	20	197.8
65x50-160	0.75		451	600	436	65	50	214	374	80	407	400	N/A	15	100	20	77
65x50-160	1.1		469	600	436	65	50	224	384	80	407	400	N/A	15	100	20	84.5
65x50-160	1.5		TBC	TBC	TBC	65	50	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
65x50-160		5.5	627	750	510	65	50	226	386	80	470	550	N/A	15	100	20	129.9
65x50-160		7.5	627	750	510	65	50	226	386	80	470	550	N/A	15	100	20	135.9
65x50-160		11	TBC	TBC	TBC	65	50	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
65x40-200	1.1		489	600	436	65	40	234	414	100	407	400	N/A	15	100	20	93
65x40-200	1.5		514	600	436	65	40	234	414	100	407	400	N/A	15	100	20	92
65x40-200	2.2		562	600	436	65	40	234	414	100	407	400	N/A	15	100	20	103
65x40-200		7.5	646	750	510	65	40	234	414	100	470	550	N/A	15	100	20	146.5
65x40-200		11	798	900	577	65	40	273	453	100	528	700	N/A	15	100	20	198.8
65x40-200		15	798	900	577	65	40	273	453	100	528	700	N/A	15	100	20	203.8
65x40-250	2.2		559	600	436	65	40	254	479	100	407	400	N/A	15	100	20	123
65x40-250	3		559	600	436	65	40	254	479	100	407	400	N/A	15	100	20	133
65x40-250	4		578	600	436	65	40	254	479	100	407	400	N/A	15	100	20	137
65x40-250		15	798	900	577	65	40	273	498	100	528	700	N/A	15	100	20	228.2
65x40-250		18.5	842	900	577	65	40	273	498	100	528	700	N/A	15	100	20	249.2
65x40-250		22	863	900	577	65	40	273	498	100	528	700	N/A	15	100	20	290.4
65x40-250		30	973	1100	642	65	40	293	518	100	595	900	450	19	100	20	381.4
65x40-315	3		584	600	436	65	40	284	534	125	407	400	N/A	15	100	10	150
65x40-315	4		603	750	510	65	40	286	536	125	470	550	N/A	15	100	20	162
65x40-315	5.5		668	750	510	65	40	284	534	125	470	550	N/A	15	100	20	176
65x40-315	7.5		706	750	510	65	40	284	534	125	470	550	N/A	15	100	20	196
65x40-315		22	886	900	577	65	40	293	543	125	528	700	N/A	15	100	10	308.9
65x40-315		30	998	1100	642	65	40	303	553	125	595	900	450	19	100	20	397
65x40-315		37	998	1100	642	65	40	303	553	125	595	900	450	19	100	20	412
65x40-315		45	1049	1100	642	65	40	323	573	125	595	900	450	19	100	20	564.6
80x65-160	1.1		489	600	436	80	65	234	414	100	407	400	N/A	15	100	20	90
80x65-160	1.5		514	600	436	80	65	234	414	100	407	400	N/A	15	100	20	89
80x65-160		5.5	647	750	520	80	65	234	414	100	470	550	N/A	15	100	20	138.1
80x65-160		7.5	647	750	520	80	65	234	414	100	470	550	N/A	15	100	20	144.1
80x65-160		11	798	900	577	80	65	273	453	100	528	700	N/A	15	100	20	202.2
80x65-160		15	798	900	577	80	65	273	453	100	528	700	N/A	15	100	20	207.2
80x50-200	1.5		514	600	436	80	50	234	434	100	407	400	N/A	15	100	20	94
80x50-200	2.2		562	600	436	80	50	234	434	100	407	400	N/A	15	100	20	105
80x50-200	3		562	600	436	80	50	234	434	100	407	400	N/A	15	100	20	115
80x50-200		11	798	900	577	80	50	273	473	100	528	700	N/A	15	100	20	198.8
80x50-200		15	798	900	577	80	50	273	473	100	528	700	N/A	15	100	20	203.8
80x50-200		18.5	842	900	577	80	50	273	473	100	528	700	N/A	15	100	20	224.8
80x50-200		22	863	900	577	80	50	273	473	100	528	700	N/A	15	100	20	266
80x50-250	3		584	600	436	80	50	274	499	125	407	400	N/A	15	100	10	142
80x50-250	4		603	750	510	80	50	264	489	125	470	550	N/A	15	100	10	149
80x50-250	5.5		668	750	510	80	50	266	491	125	470	550	N/A	15	100	20	166
80x50-250	7.5		TBC	TBC	TBC	80	50	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
80x50-250		22	888	900	577	80	50	283	508	125	528	700	N/A	15	100	10	298.4
80x50-250		30	998	1100	642	80	50	293	518	125	595	900	450	19	100	20	386.4
80x50-250		37	998	1100	642	80	50	293	518	125	595	900	450	19	100	20	401.4
80x50-250		45	1049	1100	642	80	50	323	573	125	595	900	450	19	100	20	556

GIS End Suction Centrifugal Pump Set Dimensions



GIS Model	4P kW	2P kW	UL	BL	BW	DNS	DND	H1	H2	FC	HC1	HC2	HC3	Ø BH	BP	A	Weight (Kg)
80x50-315	4		603	750	510	80	50	299	579	125	470	550	N/A	15	100	20	164
80x50-315	5.5		668	750	510	80	50	306	586	125	470	550	N/A	15	100	20	180
80x50-315	7.5		706	750	510	80	50	306	586	125	470	550	N/A	15	100	20	200
80x50-315	11		822	900	577	80	50	318	595	125	528	700	N/A	15	100	20	251.4
80x50-315		37	998	1100	642	80	50	318	598	125	595	900	450	19	100	20	422
80x50-315		45	1049	1100	642	80	50	318	598	125	595	900	450	19	100	20	567
80x50-315		55	1164	1300	728	80	50	395	675	125	676	1000	500	24	150	20	683
80x50-315		75	1164	1300	728	80	50	395	675	125	676	1000	500	24	150	20	933
100x80-160	1.5		513	600	436	100	80	234	434	100	407	400	N/A	15	100	20	111
100x80-160	2.2		559	600	436	100	80	234	434	100	407	400	N/A	15	100	20	122
100x80-160	3		559	600	436	100	80	234	434	100	407	400	N/A	15	100	20	132
100x80-160	4		578	600	436	100	80	246	443	100	407	400	N/A	15	100	20	137
100x80-160		11	797	900	577	100	80	271	471	100	528	700	N/A	15	100	20	217.8
100x80-160		15	797	900	577	100	80	271	471	100	528	700	N/A	15	100	20	222.8
100x80-160		18.5	842	900	577	100	80	271	471	100	528	700	N/A	15	100	20	243.8
100x80-160		22	863	900	577	100	80	273	473	100	528	700	N/A	15	100	20	285.2
100x65-200	3		559	600	436	100	65	254	479	100	407	400	N/A	15	100	20	137
100x65-200	4		578	600	436	100	65	254	479	100	407	400	N/A	15	100	20	139
100x65-200	5.5		643	750	510	100	65	266	491	100	470	550	N/A	15	100	20	162
100x65-200		18.5	842	900	577	100	65	273	498	100	528	700	N/A	15	100	20	244.2
100x65-200		22	863	900	577	100	65	273	498	100	528	700	N/A	15	100	20	285.4
100x65-200		30	973	1100	642	100	65	293	518	100	595	900	450	19	100	20	377.8
100x65-200		37	973	1100	642	100	65	293	518	100	595	900	450	19	100	20	392.8
100x65-250	5.5		668	750	510	100	65	274	524	125	470	550	N/A	15	100	20	164
100x65-250	7.5		706	750	510	100	65	274	524	125	470	550	N/A	15	100	20	184
100x65-250	11		TBC	TBC	TBC	100	65	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
100x65-250		37	998	1100	642	100	65	293	543	125	595	900	450	19	100	20	402
100x65-250		45	1051	1100	642	100	65	318	568	125	595	900	450	19	100	20	558.4
100x65-250		55	1164	1300	728	100	65	395	706	125	676	1000	500	24	150	20	684
100x65-250		75	1164	1300	728	100	65	395	706	125	676	1000	500	24	150	20	934
100x65-315	11		829	900	577	100	65	318	598	125	528	700	N/A	15	100	20	283.4
100x65-315	15		873	900	577	100	65	318	598	125	528	700	N/A	15	100	20	288.4
100x65-315		75	1172	1300	728	100	65	395	675	125	676	1000	500	24	150	20	977
100x65-315		90	1284	1300	728	100	65	400	788	125	676	1000	500	24	150	10	1002.4
100x65-315		110	1284	1300	728	100	65	400	788	125	676	1000	500	24	150	10	1012.4
100x65-315		132	TBC	TBC	TBC	100	65	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC
125x100-200	4		603	750	510	125	100	286	566	125	470	550	N/A	15	100	20	158
125x100-200	5.5		668	750	510	125	100	274	554	125	470	550	N/A	15	100	20	172
125x100-200	7.5		706	750	510	125	100	274	554	125	470	550	N/A	15	100	20	192
125x100-200	11		TBC	TBC	TBC	125	100	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
125x100-200		30	998	1100	642	125	100	303	583	125	595	900	450	19	100	20	403.4
125x100-200		37	998	1100	642	125	100	303	583	125	595	900	450	19	100	20	418.4
125x100-200		45	1051	1100	642	125	100	318	598	125	595	900	450	19	100	20	576
125x100-200		55	1164	1300	728	125	100	395	675	125	676	1000	500	24	150	20	696
125x100-200		75	1164	1300	728	125	100	395	675	125	676	1000	500	24	150	20	946
125x100-250	7.5		TBC	TBC	TBC	125	100	TBC	TBC	TBC	TBC	TBC	N/A	TBC	TBC	TBC	TBC
125x100-250	11		844	900	577	125	100	318	598	125	528	700	N/A	15	100	20	291.4
125x100-250	15		888	900	577	125	100	318	598	125	528	700	N/A	15	100	10	296.4
125x100-250		75	1187	1300	728	125	100	395	675	125	676	1000	500	24	150	20	977
125x100-250		90	1299	1300	728	125	100	400	788	125	676	1000	500	24	150	0	1002.4
125x100-250		110	1299	1300	728	125	100	400	788	125	676	1000	500	24	150	0	1012.4
125x100-315	15		888	900	577	125	100	353	668	140	528	700	N/A	15	100	10	308.4
125x100-315	18.5		910	900	642	125	100	343	658	140	595	900	450	19	100	20	375
125x100-315	22		948	1100	642	125	100	343	658	140	595	900	450	19	100	20	395
125x100-315	30		TBC	TBC	TBC	125	100	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC
125x100-315		110	1299	1300	728	125	100	400	715	140	676	1000	500	24	150	0	1018
125x80-400	22		928	1100	642	125	80	373	728	125	595	900	450	19	100	20	430
125x80-400	30		1006	1100	642	125	80	373	728	125	595	900	450	19	100	20	481
125x80-400	37		TBC	TBC	TBC	125	80	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC	TBC

GIS End Suction Centrifugal Pump Set Dimensions



GIS Model	Motor Kw		UL	BL	BW	DNS	DND	H1	H2	FC	HC1	HC2	HC3	Ø BH	BP	A	Weight (Kg)
	4P	2P															
125x100-400	30		1021	1100	642	125	100	393	748	140	595	900	450	19	100	20	494
125x100-400	37		1108	1100	728	125	100	415	770	140	676	1000	500	24	150	20	646
125x100-400	45		1108	1100	728	125	100	415	770	140	676	1000	500	24	150	20	681
150x125-250	11		842	900	577	150	125	353	708	140	528	700	N/A	15	100	20	312.4
150x125-250	15		888	900	577	150	125	353	708	140	528	700	N/A	15	100	10	317.4
150x125-250	18.5		910	900	642	150	125	343	698	140	595	900	450	19	100	20	384
150x125-250	22		948	1100	642	150	125	343	698	140	595	900	450	19	100	20	404
150x125-315	18.5		910	1100	642	150	125	373	728	140	595	900	450	19	100	20	422
150x125-315	22		948	1100	642	150	125	373	728	140	595	900	450	19	100	20	442
150x125-315	30		1021	1100	642	150	125	373	728	140	595	900	450	19	100	20	493
150x125-315	37		1108	1100	728	150	125	405	760	140	676	1000	500	24	150	20	640
150x125-315	45		1108	1100	728	150	125	405	760	140	676	1000	500	24	150	20	675
150x125-400	37		1103	1100	728	150	125	445	845	140	676	1000	500	24	150	20	645
150x125-400	45		1103	1100	728	150	125	445	845	140	676	1000	500	24	150	20	680

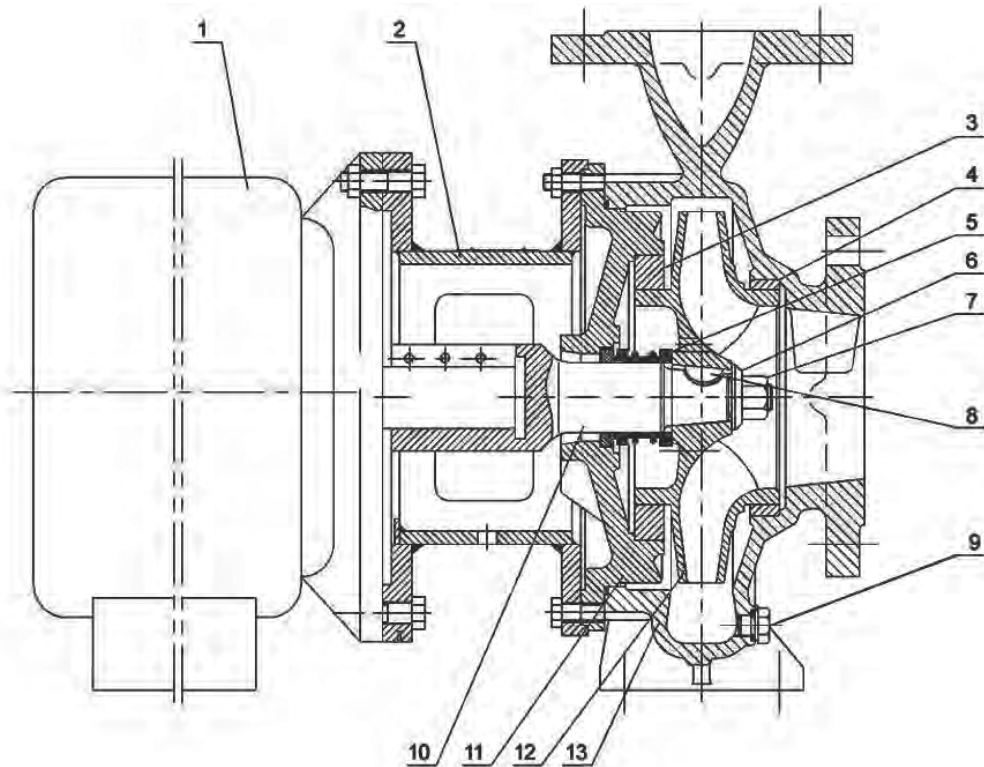
GIS Flange Data

NOTES:

1. Standard large drilling to AS2129-1982 Table "E"
2. Other large patterns available upon request
3. Dimensions subject to change without notice.
4. Motor dimensions and data may vary dependent on motor type / brand.
5. All dimensions are in mm

AS2129 Table-E Flange Dimensions Metric				
Nominal Size DN _s / DN _d (mm)	Pitch Circle Diameter (mm)	No of Holes	Diameter of Holes (mm)	Fastener Size
32	87	4	14	M12
40	98	4	14	M12
50	114	4	18	M16
65	127	4	18	M16
80	146	4	18	M16
100	178	8	18	M16
125	210	8	18	M16
150	235	8	22	M20

GIS End Suction Centrifugal Pump - GIS Pump Sectional Drawing(Pumpset)

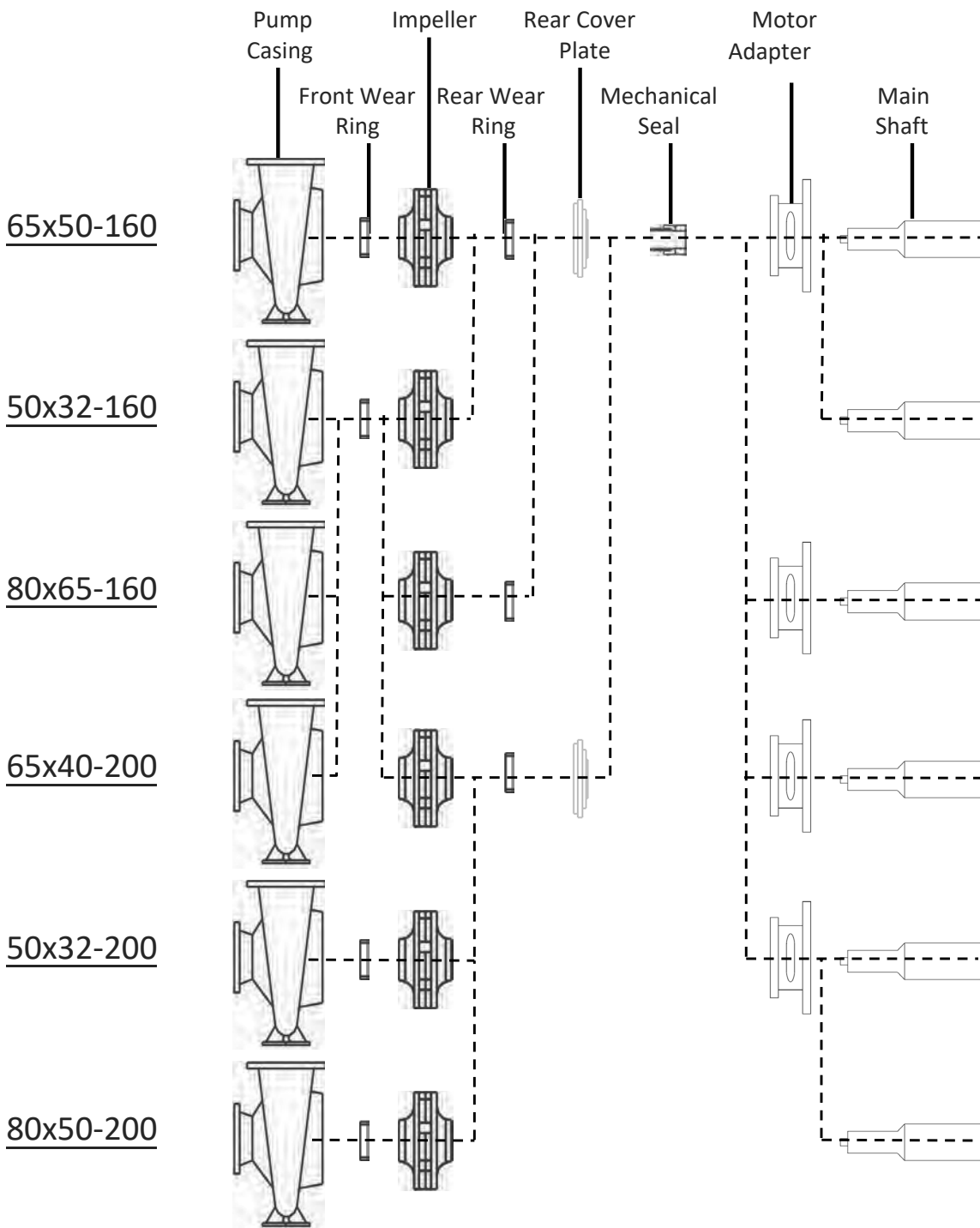


No.	Description	Standard Materials
1	Motor	
2	Motor Adaptor	Cast Iron
3	Rear Wear Ring	Bronze
4	Front Wear Ring	Bronze
5	Mechanical Seal	Carbon/Ceramic/EPDM
6	Impeller Washer	SS304
7	Impeller Nut	SS304

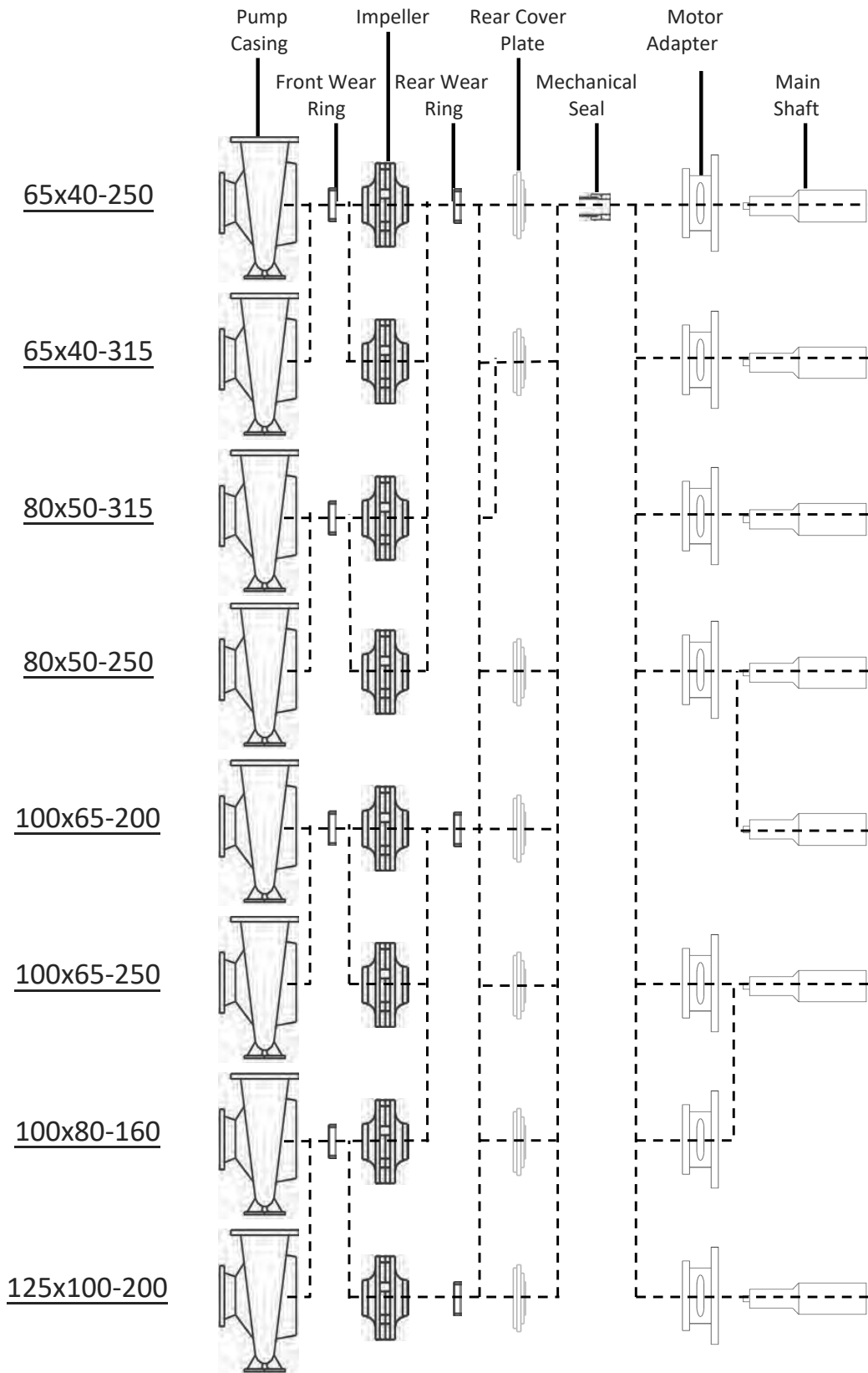
No.	Description	Standard Materials
8	Impeller Key	SS304
9	Drain Plug	Malleable Iron
10	Stub Shaft	SS420
11	Backplate	Cast Iron
12	Impeller	SS304
13	Pump Casing	Cast Iron

*Group 4 has no rear wear ring

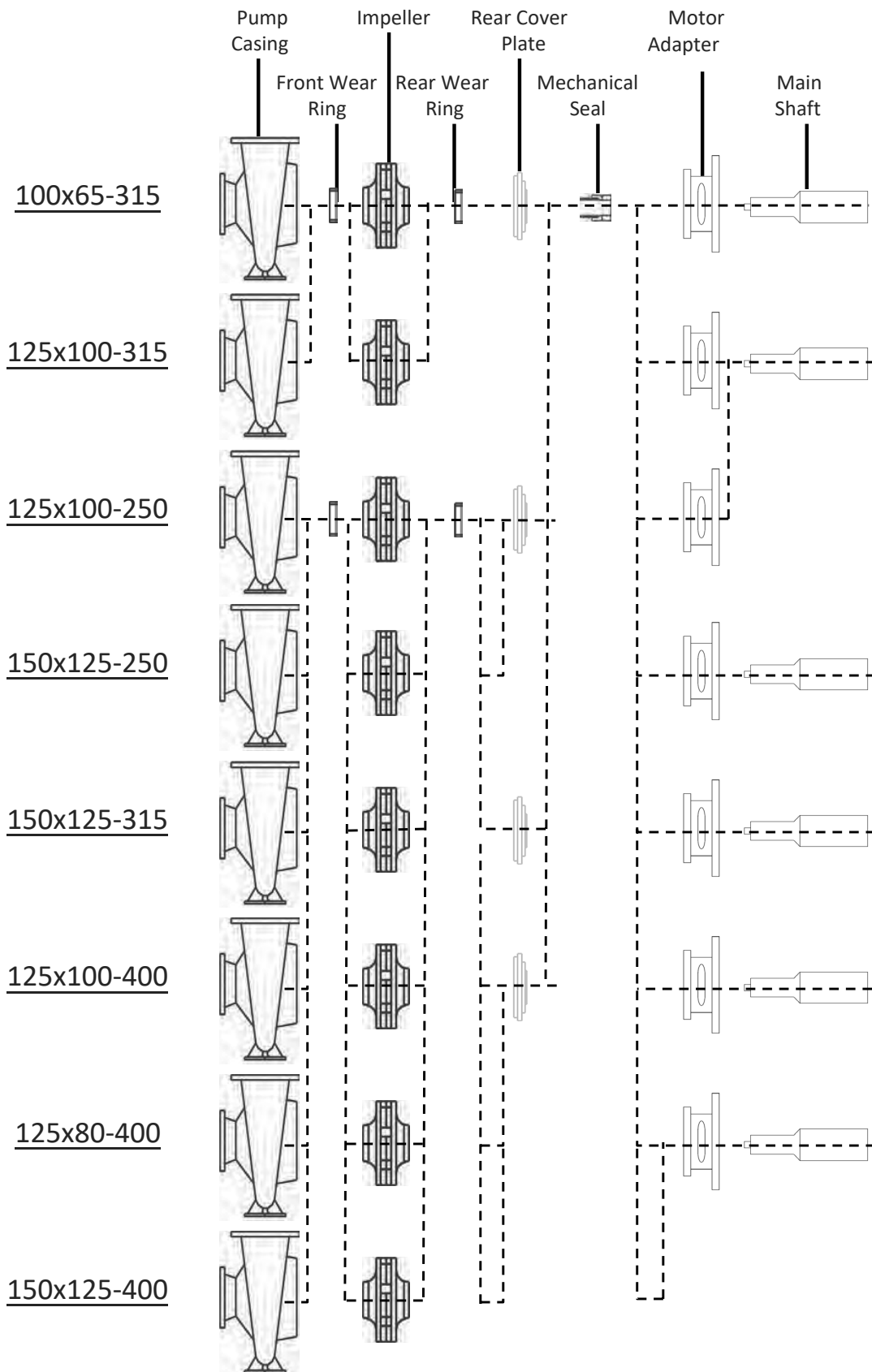
GIS End Suction Centrifugal Pump - GIS Pump Component Interchangeability Module #1



GIS End Suction Centrifugal Pump - GIS Pump Component Interchangeability Module #2



GIS End Suction Centrifugal Pump - GIS Pump Component Interchangeability Module #3



GISO End Suction Centrifugal Pump - GISO (Long Coupled) Pump Material Configuration

Standard Material

Pump Casting	Pump Cover	Impeller	Shaft	Wear Ring	Impeller Key	ImpellerNut	Remark
EN-GJL-250	EN-GJL-250	EN 1.430/ AISI 304	EN 1.4021/ AISI 420	CuSn 10	EN 1.4021/ AISI 420	EN 1.430/ AISI 304	GISO 1"4"
EN-GJL-250	EN-GJL-250	CuSn 10	EN 1.4021/ AISI 420	UNSS20910/ NITRONIC®50	EN 1.4021/ AISI 420	EN 1.430/ AISI 304	GISO 5'

Optional Material (GISO 1# - 4#)

Pump Casting	Pump Cover	Impeller	Shaft	Wear Ring	Impeller Key	Impeller Nut
EN-GJL-250	EN-GJL-250	CuSn 10	EN 1.4021/ AISI 420	CuSn 10	EN 1.4021/ AISI 420	EN 1.430/ AISI 304
EN-GJL-250	EN-GJL-250	EN-GJL-250	EN 1.4021/ AISI 420	UNSS20910/ NITRONICo50	EN 1.4021/ AISI 420	EN 1.430/ AISI 304
EN 1.430/ AISI 304	EN 1.430/ AISI 304	EN 1.430/ AISI 304	EN 1.430/ AISI 304	UNSS20910/ NITRONICe50	EN 1.430/ AISI 304	EN 1.430/ AISI 304
EN 1.4401/ AISI 316	EN 1.4401/ AISI 316	EN 1.4401/ AISI 316	EN 1.4401/ AISI 316	UNSS20910/ NITRONICO50	EN 1.4401/ AISI 316	EN 1.4401/ AISI 316

GIS End Suction Centrifugal Pump - GIS (Close Coupled) Pump Material Configuration

Standard Material

Pump Casting	Pump Cover	Impeller	Shaft	Wear Ring	ImpellerKey	ImpellerNut
EN-GJL-250	EN-GJL-250	EN 1.430/ AISI 304	EN 1.4021/ AISI 420	CuSn 10	EN 1.4021/ AISI 420	EN 1.430/ AISI 304

Optional Material

Pump Casting	Pump Cover	Impeller	Shaft	Wear Ring	Impeller Key	Impeller Nut
EN-GJL-250	EN-GJL-250	EN-GJL-250	EN 1.4021/ AISI 420	UNSS20910/ NITRONIC®50	EN 1.4021/ AISI 420	EN 1.430/ AISI 304
EN-GJS-450-10	EN-GJS-450-10	EN-GJL-250	EN 1.4021/ AISI 420	UNSS20910/ NITRONIGR)50	EN 1.4021/ AISI 420	EN 1.430/ AISI 304
EN 1.430/ AISI 304	EN 1.430/ AISI 304	EN 1.430/ AISI 304	EN 1.430/ AISI 304	UNSS20910/ NITRONIC®50	EN 1.430/ AISI 304	EN 1.430/ AISI 304
EN 1.4401/ AISI 316	EN 1.4401/ AISI 316	EN 1.4401/ AISI 316	EN 1.4401/ AISI 316	UNSS20910/ NITRONIC(R)50	EN 1.4401/ AISI 316	EN 1.4401/ AISI 316
EN 1.4462/ UNSS32205	EN 1.4462/ UNSS32205	EN 1.4462/ UNSS32205	EN 1.4462/ UNSS32205	EN 1.4462/ UNSS32205	EN 1.4462/ UNSS32205	EN 1.4462/ UNSS32205

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	50-32-160	50-32-200	65-50-160	65-40-200
1. Discharge	mm	32	32	50	40
2. Suction	mm	50	50	65	65
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double-seal-ring type			
5. Mean thickness of pump casing	mm	8	8	8	8
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	38	46	40	48
8. Bearing Frame Size		1	1	1	1

Impeller	Unit	50-32-160	50-32-200	65-50-160	65-40-200
1. Max. impeller diameter	mm	182	228	182	228
2. Weight of impeller (Bronze)	Kg	5.5	6.5	5.4	8.4
3. Weight of impeller (SS304)	Kg	5.1	6.0	5.0	7.8
4. Weight of bearing	Kg	0.464	0.464	0.464	0.464
5. Max. redundancy of friction ring	mm	0.3054	0.3054	0.3054	0.3054
6. Min redundancy of friction ring	mm	0.3	0.3	0.3	0.3
7. Max. rotation inertia (Bronze)	Kg.m ²	0.0149	0.0292	0.0166	0.0325
8. Max. rotation inertia (SS304)	Kg.m ²	0.0131	0.0258	0.0146	0.0287

Shaft and bearing	Unit	50-32-160	50-32-200	65-50-160	65-40-200
1. Shaft diameter (at impeller)	mm	25	25	25	25
2. Shaft diameter (at coupling)	mm	24	24	24	24
3. Bearing center distance	mm	154	154	154	154
4. Bearing type (drive end)		6306ZZ (30x72x19)			
5. Bearing type (non-drive end)		6307ZZ (35x80x21)			

Mechanical seal	Unit	50-32-160	50-32-200	65-50-160	65-40-200
1. Material of mechanical seal		Carbon / ceramic / EPDM rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	32			

Operation limits	Unit	50-32-160	50-32-200	65-50-160	65-40-200
1. Max. operating pressure	Bar	16	16	16	16
2. Max suction pressure	Bar	7.5	6	7.5	6
3. Service life of bearing (calculated)	Hours	44385	43125	44000	42560
4. Max. temperature of mechanical seal	Deg C	120	120	120	120
6. Max. speed	RPM	3600	3600	3600	3600

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	65-40-250	65-40-315	80-65-160	80 50 200
1. Discharge	mm	40	40	65	50
2. Suction	mm	65	65	80	80
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double-seal-ring type			
5. Mean thickness of pump casing	mm	9	10	9	9
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	70	80	46	52
8. Bearing Frame Size		2	2	1	1

Impeller	Unit	65-40-250	65-40-315	80-65-160	80-50-200
1. Max. impeller diameter	mm	278	342	182	228
2. Weight of impeller (Bronze)	Kg	9.8	18	5.4	8.4
3. Weight of impeller (SS304)	Kg	9.0	16.6	5.0	7.8
4. Weight of bearing	Kg	0.829	0.829	0.464	0.464
5. Max. redundancy of friction ring	mm	0.3054	0.3054	0.3054	0.3054
6. Min redundancy of friction ring	mm	0.3	0.3	0.3	0.3
7. Max. rotation inertia (Bronze)	Kg.m ²	0.0725	0.1901	0.0149	0.0325
8. Max. rotation inertia (SS304)	Kg.m ²	0.0639	0.1677	0.0131	0.0287

Shaft and bearing	Unit	65-40-250	65-40-315	80-65-160	80-50-200
1. Shaft diameter (at impeller)	mm	35	35	35	35
2. Shaft diameter (at coupling)	mm	32	32	32	32
3. Bearing center distance	mm	224	224	154	154
4. Bearing type (drive end)		6308ZZ (40x90x23)		6306ZZ (30x72x19)	
5. Bearing type (non-drive end)		6309ZZ (40x100x25)		6307ZZ (35x80x21)	

Mechanical seal	Unit	65-40-250	65-40-315	80-65-160	80-50-200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	43			32

Operation limits	Unit	65-40-250	65-40-315	80-65-160	80-65-200
1. Max. operating pressure	Bar	16	16	16	16
2. Max suction pressure	Bar	3.5	2	7.5	6
3. Service life of bearing (calculated)	Hours	39285	35670	41550	39684
4. Max. temperature of mechanical seal	Deg C	120	120	120	120
6. Max. speed	RPM	3600	3000	3600	3600

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	80-50-250	80-50-315	100-80-160	100-65-200
1. Discharge	mm	50	50	60	65
2. Suction	mm	80	80	100	100
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double-seal-ring type			
5. Mean thickness of pump casing	mm	9	12	9	9
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	72	67	68	70
8. Bearing Frame Size		2	2	2	2

Impeller	Unit	80-50-250	80-50-315	100-80-160	100-65-200
1. Max. impeller diameter	mm	278	342	182	228
2. Weight of impeller (Bronze)	Kg	12.5	14	7.2	10.5
3. Weight of impeller (SS304)	Kg	11.5	12.9	6.6	9.7
4. Weight of bearing	Kg	0.829	0.829	0.829	0.829
5. Max. redundancy of friction ring	mm	0.404	0.404	0.413	0.413
6. Min redundancy of friction ring	mm	0.35	0.35	0.35	0.35
7. Max. rotation inertia (Bronze)	Kg.m ²	0.0734	0.1842	0.0232	0.0448
8. Max. rotation inertia (SS304)	Kg.m ²	0.0647	0.1625	0.0205	0.0395

Shaft and bearing	Unit	80-50-250	80-50-315	100-80-160	100-65-200
1. Shaft diameter (at impeller)	mm	35	35	35	35
2. Shaft diameter (at coupling)	mm	32	32	32	32
3. Bearing center distance	mm	224	224	224	224
4. Bearing type (drive end)		6308ZZ (40x90x23)			
5. Bearing type (non-drive end)		6309ZZ (45x100x25)			

Mechanical seal	Unit	80-50-250	80-50-315	100-80-160	100-65-200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	43			

Operation limits	Unit	80-50-250	80-50-315	100-80-160	100-65-200
1. Max. operating pressure	Bar	16	16	16	16
2. Max suction pressure	Bar	3.5	2	7.5	6
3. Service life of bearing (calculated)	Hours	36578	30867	43056	38057
4. Max. temperature of mechanical seal	Deg C	120	120	120	120
6. Max. speed	RPM	3600	3000	3600	3600

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	100-65-250	100-65-315	125-80-400	125-100-200
1. Discharge	mm	65	65	80	100
2. Suction	mm	100	100	125	125
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double-seal-ring type			
5. Mean thickness of pump casing	mm	10	12	15	12
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	80	118	165	85
8. Bearing Frame Size		2	3	3	2

Impeller	Unit	100-65-250	100-65-315	125-80-400	125-100-200
1. Max. impeller diameter	mm	278	342	438	228
2. Weight of impeller (Bronze)	Kg	10.2	16.6	28	9.2
3. Weight of impeller (SS304)	Kg	9.4	15.3	25.8	8.5
4. Weight of bearing	Kg	0.829	1.37	1.37	0.829
5. Max. redundancy of friction ring	mm	0.413	0.463	0.522	0.463
6. Min redundancy of friction ring	mm	0.35	0.4	0.45	0.4
7. Max. rotation inertia (Bronze)	Kg.m2	0.0734	0.2047	0.6235	0.0533
8. Max. rotation inertia (SS304)	Kg.m2	0.0647	0.1806	0.5499	0.0470

Shaft and bearing	Unit	100-65-250	100-65-315	125-80-400	125-100-200
1. Shaft diameter (at impeller)	mm	35	45	45	35
2. Shaft diameter (at coupling)	mm	32	42	42	32
3. Bearing center distance	mm	224	192	192	224
4. Bearing type (drive end)		6308ZZ (40x90x23)		6310ZZ (50x110x27)	6308ZZ (40x90x23)
5. Bearing type (non-drive end)		6309ZZ (45x100x25)		6311ZZ (55x120x28)	6309ZZ (45x100x25)

Mechanical seal	Unit	100-65-250	100-65-315	125-80-400	125-100-200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	43		53	43

Operation limits	Unit	100-65-250	100-65-315	125-80-400	125-100-200
1. Max. operating pressure	Bar	16	16	16	16
3. Max suction pressure	Bar	3.5	2	7	6
4. Service life of bearing (calculated)	Hours	28557	18000	38150	28345
5. Max. temperature of mechanical seal	Deg C	120	120	120	120
6. Max. speed	RPM	3600	3000	2350	3600

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	125-100-250	125-100-315	125-100-400	125-100-500
1. Discharge	mm	100	100	100	100
2. Suction	mm	125	125	125	125
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double-seal-ring type			
5. Mean thickness of pump casing	mm	11	15	15	19
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	126	135	175	313
8. Bearing Frame Size		3	3	3	4

Impeller	Unit	125-100-250	125-100-315	125-100-400	125-100-500
1. Max. impeller diameter	mm	295	342	435	547
2. Weight of impeller (Bronze)	Kg	15.2	19.8	28	39.5
3. Weight of impeller (SS304)	Kg	14.0	18.3	25.8	36.5
4. Weight of bearing	Kg	1.37	1.37	1.37	2.11
5. Max. redundancy of friction ring	mm	0.522	0.463	0.522	0.463
6. Min redundancy of friction ring	mm	0.45	0.4	0.45	0.4
7. Max. rotation inertia (Bronze)	Kg.m ²	0.1256	0.1314	0.5995	0.8633
8. Max. rotation inertia (SS304)	Kg.m ²	0.1108	0.1159	0.5288	0.7615

Shaft and bearing	Unit	125-100-250	125-100-315	125-100-400	125-100-500
1. Shaft diameter (at impeller)	mm	45	45	45	53
2. Shaft diameter (at coupling)	mm	42	42	42	48
3. Bearing center distance	mm	192	192	192	258
4. Bearing type (drive end)		6310ZZ (50x120x27)		6313ZZ (65x140x33)	
5. Bearing type (non-drive end)		6311ZZ (55x120x29)		6313ZZ (65x140x33)	

Mechanical seal	Unit	125-100-250	125-100-315	125-100-400	125-100-500
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	53	53	53	60

Operation limits	Unit	125-100-250	125-100-315	125-100-400	125-100-500
1. Max. operating pressure	Bar	16	16	16	16
3. Max suction pressure	Bar	3.5	2	7	4.5
4. Service life of bearing (calculated)	Hours	18122	17500	35450	29450
5. Max. temperature of mechanical seal	Deg C	120	120	120	120
6. Max. speed	RPM	3600	3000	2350	1800

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	150-125-250	150-125-315	150-125-400	150-125-500
1. Discharge	mm	125	125	115	125
2. Suction	mm	150	150	150	150
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double	seal-ring type	Single-suction single	seal-ring type
5. Mean thickness of pump casing	mm	14	15	16	20
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	140	150	196	336
8. Bearing Frame Size		3	3	3	4

Impeller	Unit	150-125-250	150-125-315	150-125-400	150-125-500
1. Max. impeller diameter	mm	278	342	435	547
2. Weight of impeller (Bronze)	Kg	15.2	20.2	28.5	42.5
3. Weight of impeller (SS304)	Kg	14.0	18.6	26.3	39.2
4. Weight of bearing	Kg	1.37	1.37	1.37	2.11
5. Max. redundancy of friction ring	mm	0.522	0.522	0.522	0.522
6. Min redundancy of friction ring	mm	0.45	0.45	0.45	0.45
7. Max. rotation inertia (Bronze)	Kg.m ²	0.1159	0.2396	0.5516	0.9592
8. Max. rotation inertia (SS304)	Kg.m ²	0.1022	0.2113	0.4865	0.8460

Shaft and bearing	Unit	150-125-250	150-125-315	150-125-400	150-125-500
1. Shaft diameter (at impeller)	mm	45	45	45	53
2. Shaft diameter (at coupling)	mm	42	42	42	48
3. Bearing center distance	mm	192	192	192	258
4. Bearing type (drive end)		6310ZZ (50x110x27)		6310ZZ (50x110x27)	6313ZZ(65x140x33)
5. Bearing type (non-drive end)		6311ZZ (55x120x29)		6311ZZ (55x120x29)	6313ZZ(65x140x33)

Mechanical seal	Unit	150-125-250	150-125-315	150-125-400	150-125-500
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	53	53	53	60

Operation limits	Unit	150-125-250	150-125-315	150-125-400	150-125-500
1. Max. operating pressure	Bar	16	16	16	16
3. Max suction pressure	Bar	3.5	2	7	4.5
4. Service life of bearing (calculated)	Hours	42000	39235	32000	24538
5. Max. temperature of mechanical seal	Deg C	120	120	120	120
6. Max. speed	RPM	2350	2350	2350	1800

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	200-150-315	200-150-400	200-150-500	250-200-315	250-200-400
1. Discharge	mm	150	150	150	200	200
2. Suction	mm	200	200	200	250	250
3. Flange Standard		AS2129-1982 Table "E" PN16 standard				
4. Impeller Type		Single-suction single-seal-ring type				
5. Mean thickness of pump casing	mm	16	18	22	17	19
6. Pump casing structure		Radial - Split / Back-Pullout Type				
7. Weight of Bare Pump	Kg	222	300	382	277	340
8. Bearing Frame Size		4	4	4	4	4

Impeller	Unit	200-150-315	200-150-400	200-150-500	250-200-315	250-200-400
1. Max. impeller diameter	mm	342	438	547	343	429
2. Weight of impeller (Bronze)	Kg	23.2	42	51.6	34.6	37.6
3. Weight of impeller (SS304)	Kg	21.4	38.8	47.6	31.9	34.7
4. Weight of bearing	Kg	2.11	2.11	2.11	2.11	2.11
5. Max. redundancy of friction ring	mm	0.572	0.572	0.572	0.581	0.581
6. Min redundancy of friction ring	mm	0.5	0.5	0.5	0.5	0.5
7. Max. rotation inertia (Bronze)	Kg.m2	0.2924	0.7434	1.533	0.3655	0.7554
8. Max. rotation inertia (SS304)	Kg.m2	0.2579	0.6557	1.3521	0.3224	0.6663

Shaft and bearing	Unit	200-150-315	200-150-400	200-150-500	250-200-315	250-200-400
1. Shaft diameter (at impeller)	mm	53	53	53	53	53
2. Shaft diameter (at coupling)	mm	48	48	48	48	48
3. Bearing center distance	mm	258	258	258	258	258
4. Bearing type (drive end)		6313 EZ (65x140x33)				
5. Bearing type (non-drive end)		6313 EZ (65x140x33)				

Mechanical seal	Unit	200-150-315	200-150-400	200-150-500	250-200-315	250-200-400
1. Material of mechanical seal		Carbon I ceramic / fluorine rubber (dynamic / static ring I rubber)				
2. Specification of mechanical seal	mm	60				

Operation limits	Unit	200-150-315	200-150-400	200-150-500	250-200-315	250-200-400
1. Max. operating pressure	Bar	16	16	16	16	16
2. Max suction pressure	Bar	2	7	4.5	2	7
3. Service life of bearing (calculated)	Hours	28588	28676	21559	27689	23120
4. Max. temperature of mechanical seal	Deg C	120	120	120	120	120
6. Max. speed	RPM	1800	1800	1500	1800	1500

GISO End Suction Centrifugal Pump - Technical Data (Standard Construction)

Pump	Unit	400-300-460	400-300-550	400-350-480	400-400-410
1. Discharge	mm	400	400	400	400
2. Suction	mm	300	300	350	400
3. Flange Standard		AS2129-1982 Table "E" PN16 standard			
4. Impeller Type		Single-suction double-seal-ring type			
5. Mean thickness of pump casing	mm	20	20	20	20
6. Pump casing structure		Radial - Split / Back-Pullout Type			
7. Weight of Bare Pump	Kg	620	700	730	660
8. Bearing Frame Size		5	5	5	5

Impeller	Unit	400-300-460	400-300-550	400-350-480	400-400-410
1. Max. impeller diameter	mm	450	540	480	404
2. Weight of impeller (Bronze)	Kg	44	62	56	40
3. Weight of impeller (SS304)	Kg	40.6	57.2	51.7	36.9
4. Weight of bearing	Kg	3.05	3.05	3.05	3.06
5. Max. redundancy of friction ring	mm	0.389	0.389	0.489	0.389
6. Min redundancy of friction ring	mm	0.3	0.3	0.4	0.3
7. Max. rotation inertia (Bronze)	Kg.m2	1.5188	2.8431	2.0736	1.1767
8. Max. rotation inertia (SS304)	Kg.m2	1.3396	2.5077	1.8290	1.0379

Shaft and bearing	Unit	400-300-460	400-300-550	400-350-480	400-400-410
1. Shaft diameter (at impeller)	mm	60	60	60	60
2. Shaft diameter (at coupling)	mm	70	70	70	70
3. Bearing center distance	mm	297	297	297	297
4. Bearing type (drive end)		6315ZZ (75x160x37)			
5. Bearing type (pump head end)		6316ZZ (80x170x39)			

Mechanical seal	Unit	400-300-460	400-300-550	400-350-480	400-400-410
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	75			

Operation limits	Unit	400-300-460	400-300-550	400-350-480	400-400-410
1. Max. operating pressure	Bar	16	16	16	16
2. Service life of bearing (calculated)	Hours	51999	23704	25472	80706
3. Max. temperature of mechanical seal	Deg C	120	120	120	120
5. Max. speed	RPM	1200	1200	1200	1200

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