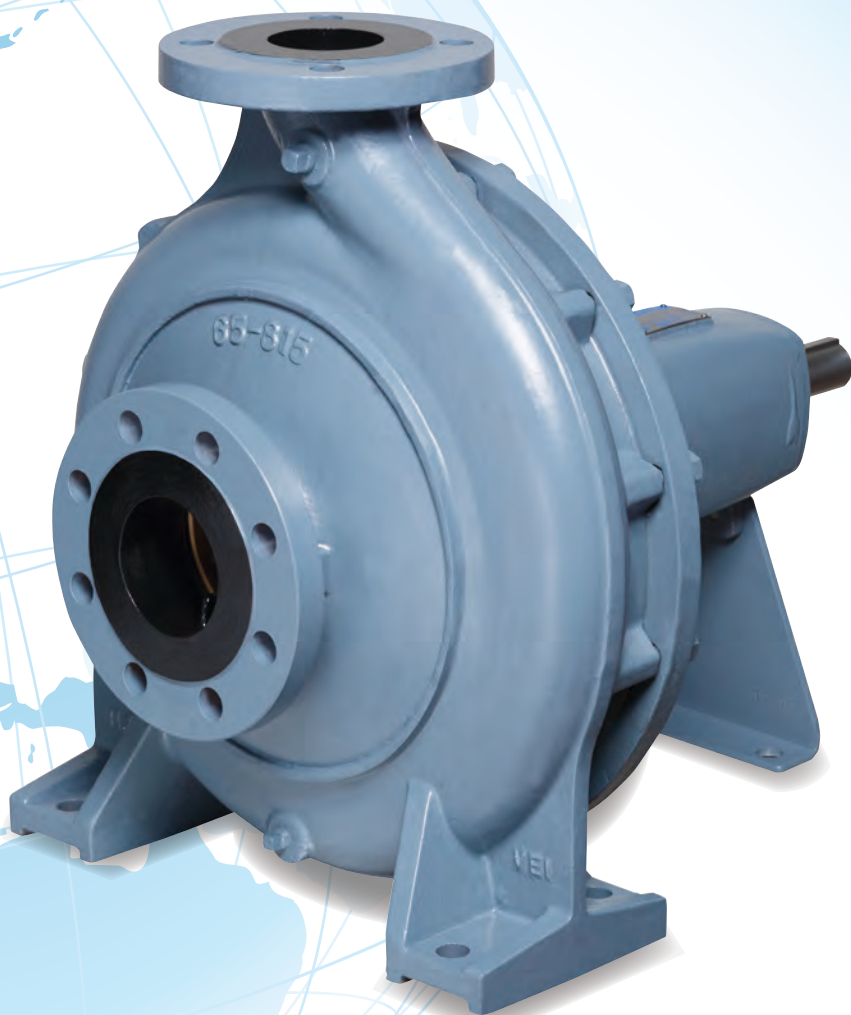


EBARA END SUCTION VOLUTE PUMP MODEL GS



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PERFORMANCE CURVES**50Hz – 2900 min-1**

GS32-125.1, GS 32-160.1, GS 32-200.1,
GS32-125, GS32-160, GS32-200, GS32-250,
GS40-125, GS40-160, GS40-200, GS40-250, GS40-315,
GS50-125, GS50-160, GS50-200, GS50-250, GS50-315,
GS65-125, GS65-160, GS65-200, GS65-250, GS65-315,
GS80-160, GS80-200, GS80-250, GS80-315L,
GS100-160, GS100-200, GS100-250, GS100-315L,
GS125-200, GS 125-250L, GS 125-315,
GS150-200, GS150-250,

50Hz – 1450 min-1

GS32-125.1, GS 32-160.1, GS 32-200.1,
GS32-125, GS32-160, GS32-200, GS32-250,
GS40-125, GS40-160, GS40-200, GS40-250, GS40-315,
GS50-125, GS50-160, GS50-200, GS50-250, GS50-315,
GS65-125, GS65-160, GS65-200, GS65-250, GS65-315,
GS80-160, GS80-200, GS80-250, GS80-315, GS80-400,
GS100-160, GS100-200, GS100-250, GS100-315, GS100-400,
GS125-200, GS 125-250, GS 125-315, GS 125-400, GS 125-500,
GS150-200, GS150-250, GS150-315, GS150-400, GS150-500,
GS200-400, GS200-500,

60Hz – 3500 min-1

GS32-125.1, GS 32-160.1, GS 32-200.1,
GS32-125, GS32-160, GS32-200, GS32-250,
GS40-125, GS40-160, GS40-200, GS40-250,
GS50-125, GS50-160, GS50-200, GS50-250,
GS65-125, GS65-160, GS65-200, GS65-250,
GS80-160, GS80-200, GS80-250,
GS100-160, GS100-200, GS100-250L,
GS125-200, GS 125-250L,
GS150-200,

60Hz – 1750 min-1

GS32-125.1, GS 32-160.1, GS 32-200.1,
GS32-125, GS32-160, GS32-200, GS32-250,
GS40-125, GS40-160, GS40-200, GS40-250, GS40-315,
GS50-125, GS50-160, GS50-200, GS50-250, GS50-315,
GS65-125, GS65-160, GS65-200, GS65-250, GS65-315,
GS80-160, GS80-200, GS80-250, GS80-315, GS80-400,
GS100-160, GS100-200, GS100-250, GS100-315, GS100-400,
GS125-200, GS 125-250, GS 125-315, GS 125-400, GS 125-500,
GS150-200, GS150-250, GS150-315, GS150-400L, GS150-500,
GS200-400, GS200-500,

BUILDING**• Air conditioning-District heating & cooling**

General water supply
Brine (antifreeze liquid)
Hot water circulation
High boost pressure

WATER SUPPLY

- **Water supply duties for municipalities**
- **Irrigation**
- **Drainage clean water**
- **Fire protection**
- **Swimming pool**

GENERAL INDUSTRY**• Semiconductor Industry**

Pure water

• Food industry

General water (Cooling water, Recycling water, Filtered water)
CIP (Cleaning in Place) , below 50°C and below conc. of 20%

• Pulp and Paper Industry

White water (below pulp conc.of 0.3%)

• Automobile industry

Water (without slurry)
Detergent (without slurry)

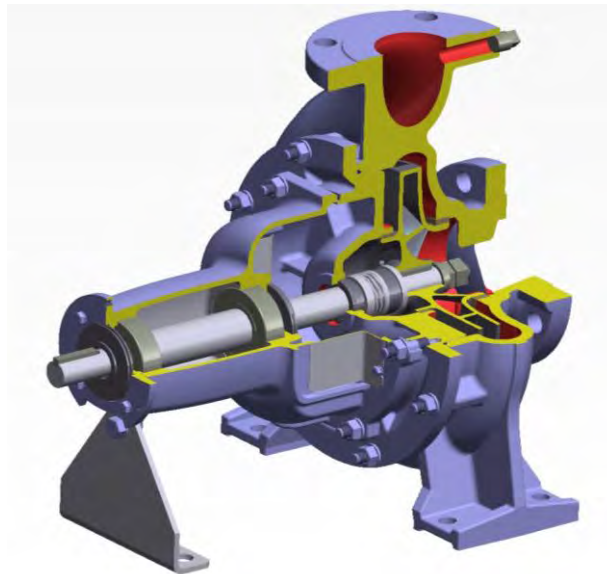
• Steel industry-Non-ferrous metals industry

Coolant
Cooling Water

• Garbage incineration

Cooling Water
Deaerator
Condensate water

Product Features



Energy-saving Design

- World top class pump efficiency achieved.
- Major improvement over our previous models by impeller designed using our proprietary 3D inverse design technology.
- Higher efficiency means lower energy consumption and motor output, and more compact size.

Simple Maintenance

- Back pull-out structure enables disassembly and inspection without removal of suction and discharge piping.
- Shield bearings eliminate need for adding or exchanging lubricating oil.
- Shaft seal flushing and quenching piping not required for the standard application.
- Air-bleeding not required.
- Simplified bearings and shaft seal enable easy assembly.

Pump Specifications

- Maximum operating pressure: 25 bar
- Liquid temperature range expansion : -10°C to 140°C
- Compatible with multiple flange standards.
- Able to meet customer specifications with many combinations of shaft seals and materials.

International Standards

- Pump dimensions adopt EN733
- Mechanical seal adopts EN12756
- Protector fitted in accordance with EN294.

SPECIFICATION - General Description

Capacities	To 1300 m ³ /hr (50Hz)
	To 1500 m ³ /hr (60Hz)
Heads	To 150 m (50Hz)
	To 150 m (60Hz)
Liquid temperatures	-10°C to 140°C
Max.working pressures	Up to 25Bar (2.5MPa)
Materials	Casing: Cast Iron , Ductile Cast Iron Impeller: Cast Iron , Ductile Cast Iron , Bronze, Stainless Steel
Standards	EN733
Rotation	Clockwise viewed from coupling end

FEATURES

- Horizontal foot mounting
- Back pull-out design
- Single-stage
- Radially split volute casing

APPLICABLE FLANGE STANDARD

- EN PN16
- EN PN25
- JIS 10K
- JIS 20K

IMPELLER TYPE

- Closed, single suction type and balancing holes to reduce axial thrust

SHAFT SEAL

- Gland packing
- Single mechanical seal based upon DIN24960 (Conical type)
- Single mechanical seal (Cylindrical type)
- Double mechanical seal (Cylindrical type)

BEARINGS AND LUBRICATION

- Shield ball bearing (Grease lubrication)

PAINTING

1. Outer Surface

• Standard up to 120°C

Primer coating	Epoxy based painting (Cationic electro-deposition; Cation)
Final coating	Alkyd resin based enamel
Finish color	Munsell 2.5PB4/2 (Dark gray)

• Standard above 120°C up to 140°C

Primer coating	Epoxy based painting (Cationic electro-deposition; Cation)
Final coating	Non painting
Finish color	Black

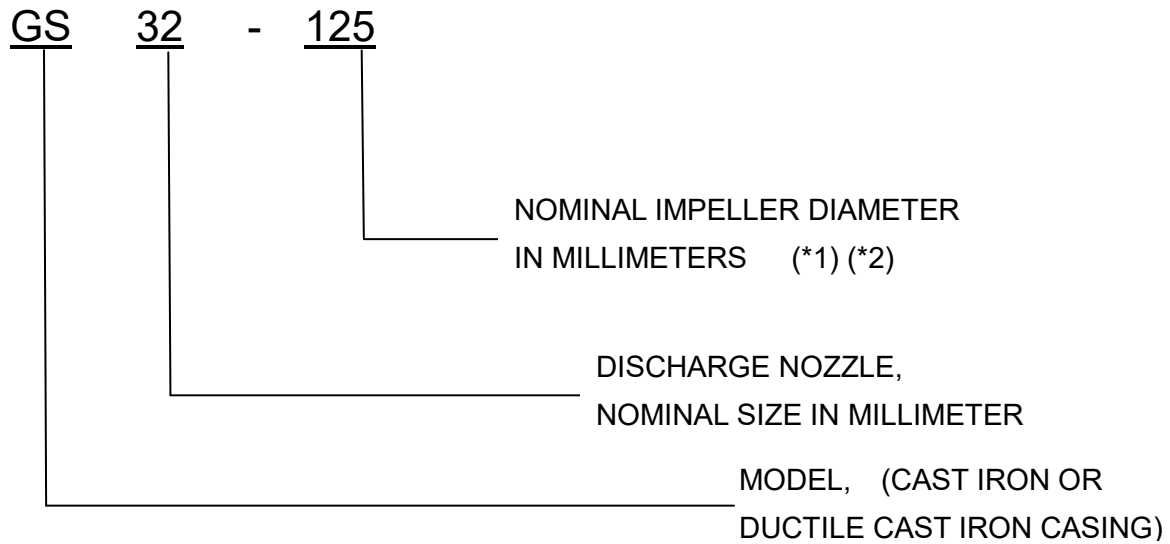
2. Inner Surface

• Standard up to 140°C

Primer coating	Epoxy based painting (Cationic electro-deposition; Cation)
Final coating	Non painting
Finish color	Black

SPECIFICATION – Designation

The following designation is system according to EN733.



(*1) The letter “L” following the impeller classification code indicates different bearing designs. To give an example, GS80-315 and GS80-315L have different bearing designs and shaft size.

(*2) The letter “.1” following the impeller classification code indicates different casing and impeller designs. To give an example, GS32-125 and GS32-125.1 have different casing and impeller designs from one another.

SPECIFICATION - Applicable Model

● : Applicable

Model	Shaft No.	50Hz		60Hz		Remarks
		2900 mim ⁻¹ (2 Pole)	1450 mim ⁻¹ (4 Pole)	3500 mim ⁻¹ (2 Pole)	1750 mim ⁻¹ (4 Pole)	
GS32-125.1	230	●	●	●	●	different hydraulic design each other
GS32-125	230	●	●	●	●	
GS32-160.1	230	●	●	●	●	different hydraulic design each other
GS32-160	230	●	●	●	●	
GS32-200.1	230	●	●	●	●	different hydraulic design each other
GS32-200	230	●	●	●	●	
GS32-250	230	●	●	●	●	
GS40-125	230	●	●	●	●	
GS40-160	230	●	●	●	●	
GS40-200	230	●	●	●	●	
GS40-250	230	●	●	●	●	
GS40-315	240	●	●	—	●	
GS50-125	230	●	●	●	●	
GS50-160	230	●	●	●	●	
GS50-200	230	●	●	●	●	
GS50-250	230	●	●	●	●	
GS50-315	240	●	●	—	●	
GS65-125	230	●	●	●	●	
GS65-160	230	●	●	●	●	
GS65-200	230	●	●	●	●	
GS65-250	240	●	●	●	●	
GS65-315	240	●	●	—	●	
GS80-160	230	●	●	●	●	
GS80-200	240	●	●	●	●	
GS80-250	240	●	●	●	●	
GS80-315	240	—	●	—	●	same hydraulic design and different shaft no. each other
GS80-315L	250	●	—	—	—	
GS80-400	250	—	●	—	●	
GS100-160	240	●	●	●	●	
GS100-200	240	●	●	●	●	
GS100-250	240	●	●	—	●	same hydraulic design and different shaft no. each other
GS100-250L	250	—	—	●	—	
GS100-315	240	—	●	—	●	same hydraulic design and different shaft no. each other
GS100-315L	250	●	—	—	—	
GS100-400	250	—	●	—	●	
GS125-200	240	●	●	●	●	
GS125-250	240	—	●	—	●	same hydraulic design and different shaft no. each other
GS125-250L	250	●	—	●	—	
GS125-315	250	●	●	—	●	
GS125-400	250	—	●	—	●	
GS125-500	260	—	●	—	●	
GS150-200	240	●	●	●	●	
GS150-250	250	●	●	—	●	
GS150-315	250	—	●	—	●	
GS150-400	250	—	●	—	—	same hydraulic design and different shaft no. each other
GS150-400L	260	—	—	—	●	
GS150-500	270	—	●	—	●	
GS200-400	270	—	●	—	●	
GS200-500	280	—	●	—	●	

TECHNICAL DATA – Impeller Diameter

— Not applicable Model

Unit : mm

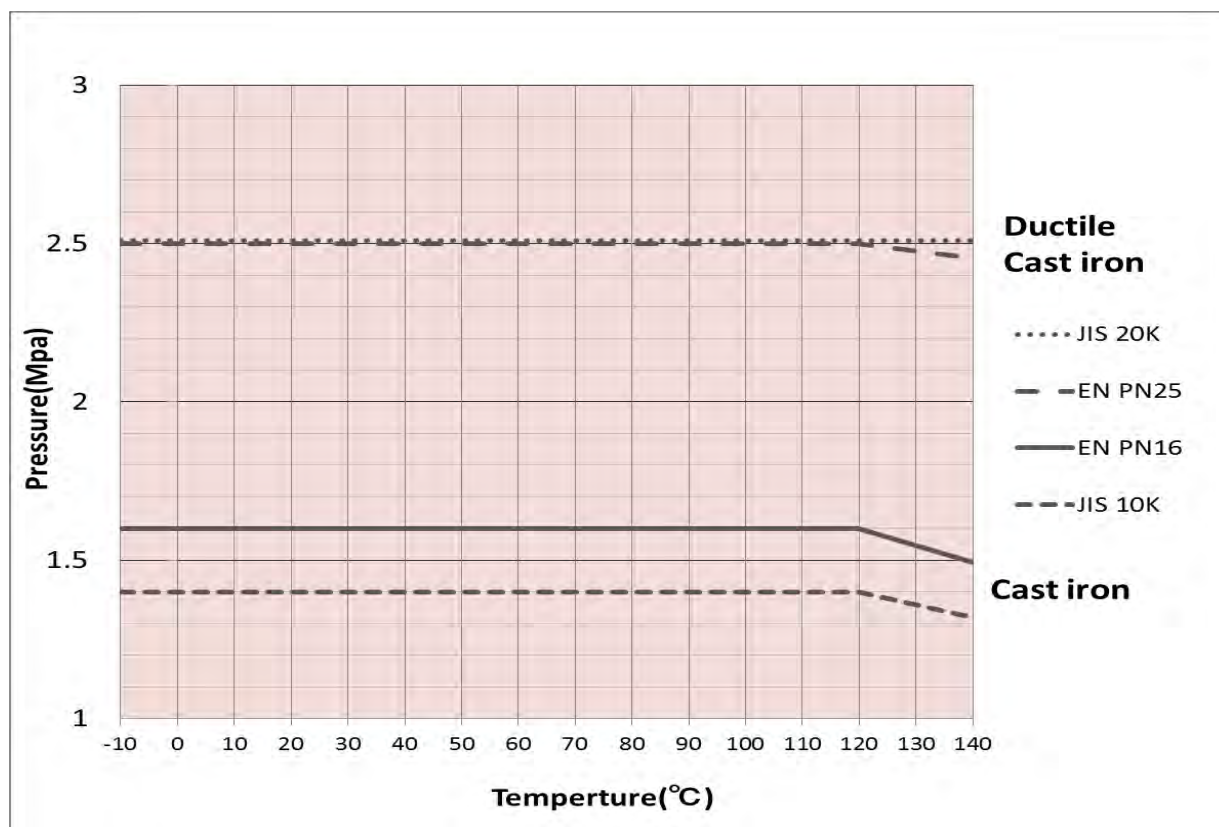
Model	Shaft No.	50Hz				60Hz			
		2P		4P		2P		4P	
		Max	Min	Max	Min	Max	Min	Max	Min
GS32-125.1	230	140	100	140	100	140	100	140	100
GS32-125	230	142	106	142	106	142	106	142	106
GS32-160.1	230	177	126	177	126	177	126	177	126
GS32-160	230	177	139	177	139	177	139	177	139
GS32-200.1	230	207	172	207	172	207	172	207	172
GS32-200	230	219	175	219	170	219	175	219	170
GS32-250	230	262	198	262	198	262	198	262	198
GS40-125	230	142	105	142	105	142	105	142	105
GS40-160	230	177	134	177	134	177	134	177	134
GS40-200	230	219	172	219	172	219	172	219	172
GS40-250	230	260	211	260	211	260	211	260	211
GS40-315	240	338	265	344	273	—	—	344	273
GS50-125	230	144	111	144	111	144	111	144	111
GS50-160	230	177	131	177	131	177	131	177	131
GS50-200	230	219	171	219	171	219	171	219	171
GS50-250	230	270	210	270	210	237	210	270	210
GS50-315	240	324	277	344	277	—	—	344	277
GS65-125	230	147	120	147	120	147	120	147	120
GS65-160	230	177	135	177	135	177	135	177	135
GS65-200	230	219	162	219	162	215	162	219	162
GS65-250	240	273	215	273	215	273	215	273	215
GS65-315	240	320	258	320	261	—	—	320	261
GS80-160	230	177	147/127	177	147/127	177	147/127	177	147/127
GS80-200	240	222	170/159.2	222	170/159.2	215	170/159.2	222	170/159.2
GS80-250	240	270	220	270	220	247	218	270	220
GS80-315	240	—	—	334	262	—	—	334	262
GS80-315L	250	334	265	—	—	—	—	—	—
GS80-400	250	—	—	438	335	—	—	438	335
GS100-160	240	183	149	183	149	181	149	181	149
GS100-200	240	220	171	220	171	220	171	220	171
GS100-250	240	265	210	270	210	—	—	270	210
GS100-250L	250	—	—	—	—	270	210	—	—
GS100-315	240	—	—	312	242	—	—	312	242
GS100-315L	250	312	242	—	—	—	—	—	—
GS100-400	250	—	—	412	320	—	—	412	320
GS125-200	240	224	174	224	174	201	174	221	174
GS125-250	240	—	—	274	213	—	—	274	213
GS125-250L	250	274	213	—	—	242	205	—	—
GS125-315	250	309	259	334	259	—	—	334	259
GS125-400	250	—	—	424	329	—	—	424	329
GS125-500	260	—	—	511	396	—	—	511	396
GS150-200	240	224/196.5	181/145.3	224/196.5	181/145.3	213/184.2	181/145.3	224/196.5	181/145.3
GS150-250	250	250	213	274	213	—	—	274	213
GS150-315	250	—	—	352	273	—	—	352	273
GS150-400	250	—	—	411	319	—	—	—	—
GS150-400L	260	—	—	—	—	—	—	411	319
GS150-500	270	—	—	511	396	—	—	511	396
GS200-400	270	—	—	420	326	—	—	420	326
GS200-500	280	—	—	530	411	—	—	530	411

TECHNICAL DATA – Shaft No. and Shaft Diameter

Model	Shaft No.	At Coupling (mm)	At Radial Bearing (mm)	At Thrust Bearing (mm)	Under Shaft Sleeve (mm)	Sleeve Dia. (For Gland packing) (mm)
GS32-125.1	230	24	30	30	28	33
GS32-125	230	24	30	30	28	33
GS32-160.1	230	24	30	30	28	33
GS32-160	230	24	30	30	28	33
GS32-200.1	230	24	30	30	28	33
GS32-200	230	24	30	30	28	33
GS32-250	230	24	30	30	28	33
GS40-125	230	24	30	30	28	33
GS40-160	230	24	30	30	28	33
GS40-200	230	24	30	30	28	33
GS40-250	230	24	30	30	28	33
GS40-315	240	32	40	40	38	43
GS50-125	230	24	30	30	28	33
GS50-160	230	24	30	30	28	33
GS50-200	230	24	30	30	28	33
GS50-250	230	24	30	30	28	33
GS50-315	240	32	40	40	38	43
GS65-125	230	24	30	30	28	33
GS65-160	230	24	30	30	28	33
GS65-200	230	24	30	30	28	33
GS65-250	240	32	40	40	38	43
GS65-315	240	32	40	40	38	43
GS80-160	230	24	30	30	28	33
GS80-200	240	32	40	40	38	43
GS80-250	240	32	40	40	38	43
GS80-315	240	32	40	40	38	43
GS80-315L	250	42	50	50	48	53
GS80-400	250	42	50	50	48	53
GS100-160	240	32	40	40	38	43
GS100-200	240	32	40	40	38	43
GS100-250	240	32	40	40	38	43
GS100-250L	250	42	50	50	48	53
GS100-315	240	32	40	40	38	43
GS100-315L	250	42	50	50	48	53
GS100-400	250	42	50	50	48	53
GS125-200	240	32	40	40	38	43
GS125-250	240	32	40	40	38	43
GS125-250L	250	42	50	50	48	53
GS125-315	250	42	50	50	48	53
GS125-400	250	42	50	50	48	53
GS125-500	260	48	60	60	55	60
GS150-200	240	32	40	40	38	43
GS150-250	250	42	50	50	48	53
GS150-315	250	42	50	50	48	53
GS150-400	250	42	50	50	48	53
GS150-400L	260	48	60	60	55	60
GS150-500	270	60	70	70	65	70
GS200-400	270	60	70	70	65	70
GS200-500	280	75	80	80	75	80

1. Maximum Allowable Working Pressure (MAWP)

Pressure casing material	Liquid temperature	Max. allowable working pressures	Flange standard
Cast iron	-10°C to 140°C	16 bar (1.6MPa)	EN PN16
		14bar (1.4MPa)	JIS 10K
Ductile cast iron	-10°C to 140°C	25 bar (2.5MPa)	EN PN25
			JIS 20K



2. Maximum Allowable Suction Pressure (MASP)

(1) Mechanical Seal Application

Maximum Allowable Suction Pressure (MASP) must be smaller than the difference between the Maximum Allowable Working Pressure (MAWP) and Pump Shut-off Pressure (PSP), as follows. However, MASP shall not exceed 16 bar.

$$MASP < MAWP - PSP$$

$$[\text{PSP(in bar)} = 0.098 \times \text{Pump Shut-off Head(in m)} \times \text{Liquid Density(in kg/}\ell\text{)}]$$

(2) Gland Packing Application

Maximum Allowable Suction Pressure (MASP) of Gland Packing application is **6 bar** as standard.

TECHNICAL DATA - Interchangeability Chart

Interchangeability Chart											
Model	Shaft No.	Impeller (*1)	Ball Bearing	Deflector	Case Wear Ring (front side)	Case Wear Ring (back side)	O Ring (for casing)	Mechanical Seal	For Gland packing		
								Mechanical Seal	Shaft Sleeve	Sleeve Gasket	Gland Packing
GS32-125.1	230		A	A	A	A	A	A	A	A	A
GS32-125	230		A	A	A	A	A	A	A	A	A
GS32-160.1	230		A	A	A	A	A	A	A	A	A
GS32-160	230		A	A	A	A	A	A	A	A	A
GS32-200.1	230		A	A	A	A	B	A	A	A	A
GS32-200	230		A	A	A	A	B	A	A	A	A
GS32-250	230		A	A	A	A	C	A	A	A	A
GS40-125	230		A	A	B	B	A	A	A	A	A
GS40-160	230		A	A	B	B	A	A	A	A	A
GS40-200	230		A	A	B	B	B	A	A	A	A
GS40-250	230		A	A	B	B	C	A	A	A	A
GS40-315	240		B	B	C	C	D	B	B	B	B
GS50-125	230		A	A	C	C	A	A	A	A	A
GS50-160	230		A	A	C	C	A	A	A	A	A
GS50-200	230		A	A	C	C	B	A	A	A	A
GS50-250	230		A	A	C	C	C	A	A	A	A
GS50-315	240		B	B	D	D	D	B	B	B	B
GS65-125	230		A	A	D	D	A	A	A	A	A
GS65-160	230		A	A	D	D	A	A	A	A	A
GS65-200	230		A	A	D	D	B	A	A	A	A
GS65-250	240		B	B	D	D	C	B	B	B	B
GS65-315	240		B	B	E	E	D	B	B	B	B
GS80-160	230		A	A	E	E	A	A	A	A	A
GS80-200	240		B	B	E	E	B	B	B	B	B
GS80-250	240		B	B	F	F	C	B	B	B	B
GS80-315	240		B	B	F	F	D	B	B	B	B
GS80-315L	250		C	C	F	F	D	C	C	C	C
GS80-400	250		C	C	F	F	E	C	C	C	C
GS100-160	240		B	B	F	F	G	B	B	B	B
GS100-200	240		B	B	G	G	H	B	B	B	B
GS100-250	240		B	B	G	G	H	C	B	B	B
GS100-250L	250		C	C	G	G	H	C	C	C	C
GS100-315	240		B	B	G	G	I	B	B	B	B
GS100-315L	250		C	C	G	G	I	C	C	C	C
GS100-400	250		C	C	H	H	J	C	C	C	C
GS125-200	240		B	B	H	H	B	B	B	B	B
GS125-250	240		B	B	I	I	C	B	B	B	B
GS125-250L	250		C	C	I	I	K	C	C	C	C
GS125-315	250		C	C	J	J	K	C	C	C	C
GS125-400	250		C	C	J	J	L	C	C	C	C
GS125-500	260		D	D	K	K	M	D	D	D	D
GS150-200	240		B	B	I	I	B	B	B	B	B
GS150-250	250		C	C	L	L	N	C	C	C	C
GS150-315	250		C	C	L	L	N	D	C	C	C
GS150-400	250		C	C	M	M	O	E	C	C	C
GS150-400L	260		D	D	M	M	O	E	D	D	D
GS150-500	270		E	E	N	N	P	F	E	E	E
GS200-400	270		E	E	O	O	Q	E	E	E	E
GS200-500	280		F	F	O	O	Q	F	F	F	F

Note: Materials of every parts should be specified by the section of "Materials of Construction".

The same letters in the same vertical column are interchangeable.

*1: FC and FCD impellers are coated with cationic electro-deposition painting.

Nominal dimension of parts

Model	Shaft No.	Case Wear Ring (front side)	Case Wear Ring (back side)	O Ring (for casing)	Ball Bearing	For Gland Paking	
						Gland Packing	Sleeve Gasket
GS32-125.1	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS32-125	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS32-160.1	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS32-160	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS32-200.1	230	76	76	3.53X234.54	6306ZZ	33X49X8	24X28X1
GS32-200	230	76	76	3.53X234.54	6306ZZ	33X49X8	24X28X1
GS32-250	230	76	76	3.53X278.99	6306ZZ	33X49X8	24X28X1
GS40-125	230	88	88	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS40-160	230	88	88	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS40-200	230	88	88	3.53X234.54	6306ZZ	33X49X8	24X28X1
GS40-250	230	88	88	3.53X278.99	6306ZZ	33X49X8	24X28X1
GS40-315	240	100	100	3.53X355.19	6308ZZ	43X63X10	32X38X1
GS50-125	230	100	100	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS50-160	230	100	100	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS50-200	230	100	100	3.53X234.54	6306ZZ	33X49X8	24X28X1
GS50-250	230	100	100	3.53X278.99	6306ZZ	33X49X8	24X28X1
GS50-315	240	116	116	3.53X355.19	6308ZZ	43X63X10	32X38X1
GS65-125	230	116	116	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS65-160	230	116	116	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS65-200	230	116	116	3.53X234.54	6306ZZ	33X49X8	24X28X1
GS65-250	240	116	116	3.53X278.99	6308ZZ	43X63X10	32X38X1
GS65-315	240	132	132	3.53X355.19	6308ZZ	43X63X10	32X38X1
GS80-160	230	132	132	3.53X183.74	6306ZZ	33X49X8	24X28X1
GS80-200	240	132	132	3.53X234.54	6308ZZ	43X63X10	32X38X1
GS80-250	240	148	148	3.53X278.99	6308ZZ	43X63X10	32X38X1
GS80-315	240	148	148	3.53X355.19	6308ZZ	43X63X10	32X38X1
GS80-315L	250	148	148	3.53X355.19	6310ZZ	53X73X10	42X48X1
GS80-400	250	148	148	5.33X456.06	6310ZZ	53X73X10	42X48X1
GS100-160	240	148	153	3.53X183.74	6308ZZ	43X63X10	32X38X1
GS100-200	240	158	158	3.53X234.54	6308ZZ	43X63X10	32X38X1
GS100-250	240	158	158	3.53X278.99	6308ZZ	43X63X10	32X38X1
GS100-250L	250	158	158	3.53X278.99	6310ZZ	53X73X10	42X48X1
GS100-315	240	158	162	3.53X355.19	6308ZZ	43X63X10	32X38X1
GS100-315L	250	158	162	3.53X355.19	6310ZZ	53X73X10	42X48X1
GS100-400	250	168	168	5.33X456.06	6310ZZ	53X73X10	42X48X1
GS125-200	240	168	158	3.53X234.54	6308ZZ	43X63X10	32X38X1
GS125-250	240	178	168	3.53X278.99	6308ZZ	43X63X10	32X38X1
GS125-250L	250	178	178	3.53X278.99	6310ZZ	53X73X10	42X48X1
GS125-315	250	188	178	3.53X355.19	6310ZZ	53X73X10	42X48X1
GS125-400	250	188	188	5.33X456.06	6310ZZ	53X73X10	42X48X1
GS125-500	260	200	200	5.33X532.26	6312ZZ	60X85X12.5	48X55X1
GS150-200	240	178	162	3.53X234.54	6308ZZ	43X63X10	32X38X1
GS150-250	250	212	212	3.53X278.99	6310ZZ	53X73X10	42X48X1
GS150-315	250	212	212	3.53X355.19	6310ZZ	53X73X10	42X48X1
GS150-400	250	236	236	5.33X456.06	6310ZZ	53X73X10	42X48X1
GS150-400L	260	236	236	5.33X456.06	6312ZZ	60X85X12.5	48X55X1
GS150-500	270	250	250	5.33X532.26	6314ZZ	70X95X12.5	60X65X1
GS200-400	270	278	278	5.33X456.06	6314ZZ	70X95X12.5	60X65X1
GS200-500	280	278	278	5.33X532.26	6316ZZ	80X109X14.5	70X75X1

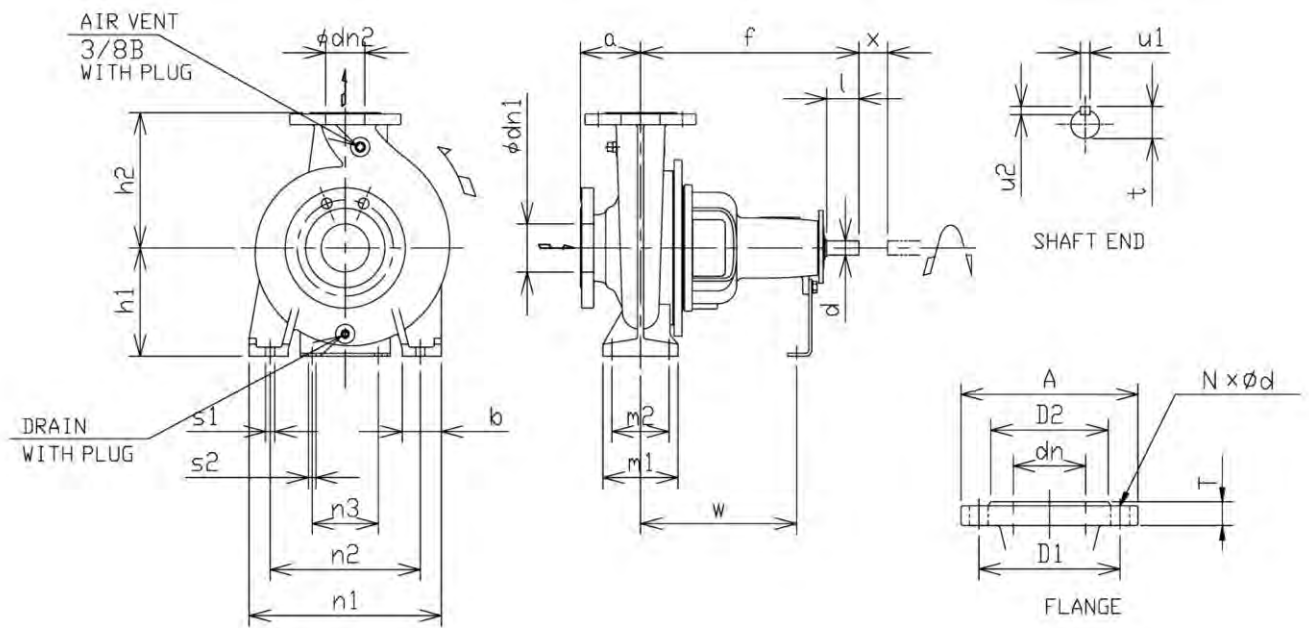
Note: Materials of every parts should be specified by the section of "Materials of Construction".

Figures in above chart show nominal parts size.

TECHNICAL DATA – Noise Data

Model	50Hz		60Hz	
	2900 mim ⁻¹ (2 Pole)	1450 mim ⁻¹ (4 Pole)	3500 mim ⁻¹ (2 Pole)	1750 mim ⁻¹ (4 Pole)
	Overall Sound Pressure Level dB(A)			
GS32-125.1	62	52	66	54
GS32-125	64	52	68	54
GS32-160.1	66	54	70	58
GS32-160	68	54	72	58
GS32-200.1	68	54	72	58
GS32-200	72	58	74	62
GS32-250	73	62	76	65
GS40-125	66	54	70	58
GS40-160	70	58	73	62
GS40-200	73	62	77	65
GS40-250	76	63	80	67
GS40-315	81	69	—	71
GS50-125	70	54	72	58
GS50-160	72	58	76	63
GS50-200	76	63	78	67
GS50-250	78	67	80	69
GS50-315	83	71	—	73
GS65-125	70	58	74	62
GS65-160	74	62	77	65
GS65-200	77	65	80	69
GS65-250	81	69	84	71
GS65-315	85	72	—	74
GS80-160	76	63	80	67
GS80-200	81	69	83	71
GS80-250	84	71	85	73
GS80-315	—	74	—	77
GS80-315L	87	—	—	—
GS80-400	—	78	—	80
GS100-160	77	65	80	67
GS100-200	81	69	85	72
GS100-250	85	72	—	74
GS100-250L	—	—	88	—
GS100-315	—	74	—	77
GS100-315L	87	—	—	—
GS100-400	—	78	—	80
GS125-200	84	71	85	73
GS125-250	—	74	—	77
GS125-250L	87	—	89	—
GS125-315	89	77	—	79
GS125-400	—	79	—	82
GS125-500	—	81	—	84
GS150-200	84	71	85	73
GS150-250	89	77	—	79
GS150-315	—	79	—	82
GS150-400	—	80	—	—
GS150-400L	—	—	—	84
GS150-500	—	84	—	86
GS200-400	—	85	—	88
GS200-500	—	88	—	91

Note : The overall sound pressure level is the value measured 1m away from the pump unit and does not include driver noise.



Flange Dimension

Material: **Cast Iron**
Flange Standard: **EN PN16**

Unit: mm

Model	Suction flange								Discharge flange							
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d		
GS32	50	165	125	99	20	4	19	32	140	100	76	18	4	19		
GS40	65	185	145	118	20	4	19	40	150	110	84	18	4	19		
GS50	65	185	145	118	20	4	19	50	165	125	99	20	4	19		
GS65	80	200	160	132	22	8	19	65	185	145	118	20	4	19		
GS80	100	220	180	156	24	8	19	80	200	160	132	22	8	19		
GS100	125	250	210	184	26	8	19	100	220	180	156	24	8	19		
GS125	150	285	240	211	26	8	23	125	250	210	184	26	8	19		
GS150	200	340	295	266	30	12	23	150	285	240	211	26	8	23		
GS200	250	405	355	319	32	12	28	200	340	295	266	30	12	23		

Flange Standard: **JIS 10K**

Unit: mm

Model	Suction flange								Discharge flange							
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d		
GS32	50	155	120	96	20	4	19	32	135	100	76	20	4	19		
GS40	65	175	140	116	22	4	19	40	140	105	81	20	4	19		
GS50	65	175	140	116	22	4	19	50	155	120	96	20	4	19		
GS65	80	185	150	126	22	8	19	65	175	140	116	22	4	19		
GS80	100	210	175	151	24	8	19	80	185	150	126	22	8	19		
GS100	125	250	210	182	24	8	23	100	210	175	151	24	8	19		
GS125	150	280	240	212	26	8	23	125	250	210	182	24	8	23		
GS150	200	330	290	262	26	12	23	150	280	240	212	26	8	23		
GS200	250	400	355	324	30	12	25	200	330	290	262	26	12	23		

Material: **Ductile Cast Iron**
Flange Standard: **EN PN25**

Unit: mm

Model	Suction flange								Discharge flange							
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d		
GS80	100	235	190	156	19	8	23	80	200	160	132	19	8	19		
GS100	125	270	220	184	19	8	28	100	235	190	156	19	8	23		
GS125	150	300	250	211	20	8	28	125	270	220	184	19	8	28		
GS150	200	360	310	274	22	12	28	150	300	250	211	20	8	28		
GS200	250	425	370	330	24.5	12	31	200	360	310	274	22	12	28		

Flange Standard: **JIS 20K**

Unit: mm

Model	Suction flange								Discharge flange							
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d		
GS80	100	225	185	160	24	8	23	80	200	160	132	22	8	23		
GS100	125	270	225	195	26	8	25	100	225	185	160	24	8	23		
GS125	150	305	260	230	28	12	25	125	270	225	195	26	8	25		
GS150	200	350	305	275	30	12	25	150	305	260	230	28	12	25		
GS200	250	430	380	345	34	12	27	200	350	305	275	30	12	25		

Dimensions of Bare Shaft Pump

Unit: mm

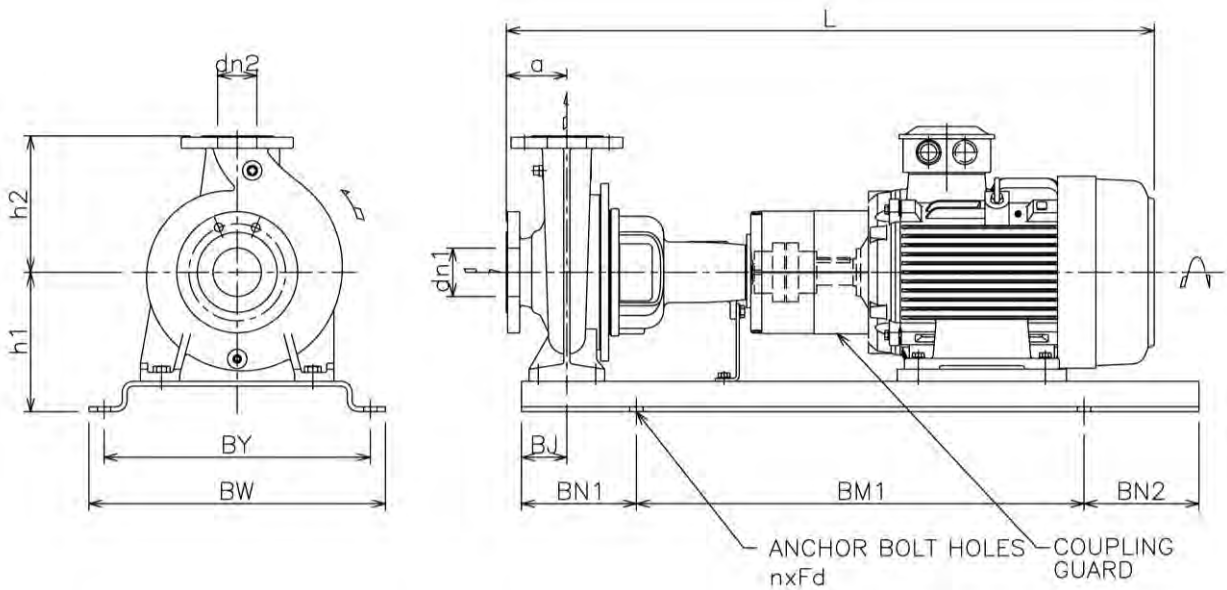
MODEL	φ		Pump					Support							Holes for bolts		Shaft end					1)	Mass (kg)
	dn1	dn2	a	f	h1	h2	Drain plug	b	m1	m2	n1	n2	n3	w	s1	s2	d	l	t	u1	u2	X	GS
GS32-125.1	50	32	80	360	112	140	1/4B	50	100	70	190	140	110	260	M12	M12	24	50	27	8	7	100	28
GS32-125	50	32	80	360	112	140	1/4B	50	100	70	190	140	110	260	M12	M12	24	50	27	8	7	100	28
GS32-160.1	50	32	80	360	132	160	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	29
GS32-160	50	32	80	360	132	160	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	29
GS32-200.1	50	32	80	360	160	180	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	39
GS32-200	50	32	80	360	160	180	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	39
GS32-250	50	32	100	360	180	225	1/4B	65	125	95	320	250	110	260	M12	M12	24	50	27	8	7	100	46
GS40-125	65	40	80	360	112	140	1/4B	50	100	70	210	160	110	260	M12	M12	24	50	27	8	7	100	30
GS40-160	65	40	80	360	132	160	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	31
GS40-200	65	40	100	360	160	180	1/4B	50	100	70	265	212	110	260	M12	M12	24	50	27	8	7	100	41
GS40-250	65	40	100	360	180	225	1/4B	65	125	95	320	250	110	260	M12	M12	24	50	27	8	7	100	48
GS40-315	65	40	125	470	225	250	1/4B	65	125	95	345	280	110	340	M12	M12	32	80	35	10	8	100	82
GS50-125	65	50	100	360	132	160	1/4B	50	100	70	240	190	110	260	M12	M12	24	50	27	8	7	100	33
GS50-160	65	50	100	360	160	180	1/4B	50	100	70	265	212	110	260	M12	M12	24	50	27	8	7	100	33
GS50-200	65	50	100	360	160	200	1/4B	50	100	70	265	212	110	260	M12	M12	24	50	27	8	7	100	44
GS50-250	65	50	100	360	180	225	1/4B	65	125	95	320	250	110	260	M12	M12	24	50	27	8	7	100	50
GS50-315	65	50	125	470	225	280	1/4B	65	125	95	345	280	110	340	M12	M12	32	80	35	10	8	100	86
GS65-125	80	65	100	360	160	180	1/4B	65	125	95	280	212	110	260	M12	M12	24	50	27	8	7	100	37
GS65-160	80	65	100	360	160	200	1/4B	65	125	95	280	212	110	260	M12	M12	24	50	27	8	7	100	41
GS65-200	80	65	100	360	180	225	1/4B	65	125	95	320	250	110	260	M12	M12	24	50	27	8	7	140	47
GS65-250	80	65	100	470	200	250	1/4B	80	160	120	360	280	110	340	M16	M12	32	80	35	10	8	140	73
GS65-315	80	65	125	470	225	280	1/4B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	90
GS80-160	100	80	125	360	180	225	1/4B	65	125	95	320	250	110	260	M12	M12	24	50	27	8	7	140	46
GS80-200	100	80	125	470	180	250	1/4B	65	125	95	345	280	110	340	M12	M12	32	80	35	10	8	140	67
GS80-250	100	80	125	470	200	280	1/4B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	77
GS80-315	100	80	125	470	250	315	1/4B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	101
GS80-315L	100	80	125	530	250	315	1/4B	80	160	120	400	315	110	370	M16	M12	42	110	45	12	8	140	112
GS80-400	100	80	125	530	280	355	1/4B	80	160	120	435	355	110	370	M16	M12	42	110	45	12	8	140	162
GS100-160	125	100	125	470	200	250	3/8B	80	160	120	360	280	110	340	M16	M12	32	80	35	10	8	140	91
GS100-200	125	100	125	470	200	280	3/8B	80	160	120	360	280	110	340	M16	M12	32	80	35	10	8	140	103
GS100-250	125	100	140	470	225	280	3/8B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	108
GS100-250L	125	100	140	530	225	280	3/8B	80	160	120	400	315	110	370	M16	M12	42	110	45	12	8	140	120
GS100-315	125	100	140	470	250	315	3/8B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	109
GS100-315L	125	100	140	530	250	315	3/8B	80	160	120	400	315	110	370	M16	M12	42	110	45	12	8	140	134
GS100-400	125	100	140	530	280	355	3/8B	100	200	150	500	400	110	370	M20	M12	42	110	45	12	8	140	189
GS125-200	150	125	140	470	250	315	3/8B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	120
GS125-250	150	125	140	470	250	355	3/8B	80	160	120	400	315	110	340	M16	M12	32	80	35	10	8	140	131
GS125-250L	150	125	140	530	250	355	3/8B	80	160	120	400	315	110	370	M16	M12	42	110	45	12	8	140	148
GS125-315	150	125	140	530	280	355	3/8B	100	200	150	500	400	110	370	M20	M12	42	110	45	12	8	140	176
GS125-400	150	125	140	530	315	400	3/8B	100	200	150	500	400	110	370	M20	M12	42	110	45	12	8	140	218
GS125-500	150	125	180	670	375	450	3/8B	100	200	150	550	450	140	500	M20	M16	48	110	51.5	14	9	140	365
GS150-200	200	150	160	470	280	355	3/8B	100	200	150	500	400	110	340	M20	M12	32	80	35	10	8	140	154
GS150-250	200	150	160	530	280	375	3/8B	100	200	150	500	400	110	370	M20	M12	42	110	45	12	8	140	171
GS150-315, 2)	200	150	160	530	315	400	3/8B	100	200	150	550	450	110	370	M20	M12	42	110	45	12	8	140	225
GS150-400	200	150	160	530	315	450	1/2B	100	200	150	550	450	110	370	M20	M12	42	110	45	12	8	140	339
GS150-400L	200	150	160	670	315	450	1/2B	100	200	150	550	450	140	500	M20	M16	48	110	51.5	14	9	140	363
GS150-500	200	150	180	670	375	560	1/2B	100	200	150	550	450	140	500	M20	M16	60	110	64	18	11	180	491
GS200-400	250	200	180	670	385	560	1/2B	100	315	250	660	560	140	500	M20	M16	60	110	64	18	11	180	508
GS200-500	250	200	200	820	435	630	1/2B	100	315	250	660	560	160	630	M24	M16	75	125	79.5	20	12	180	645

1) Dimension to be considered by the manufacturer in respect of removal of inner parts of the Pump. The dimension X must not be identical with the distance between the shafts of the pump and the driving machine. The given dimension considers the use of flexible shaft couplings with spacer. The gap is necessary for the withdrawal of the rotor toward the driven side.

2) h1 is 35mm higher than EN733 dimension.

Steel Baseplate (Fig. A) Up to 90kW *

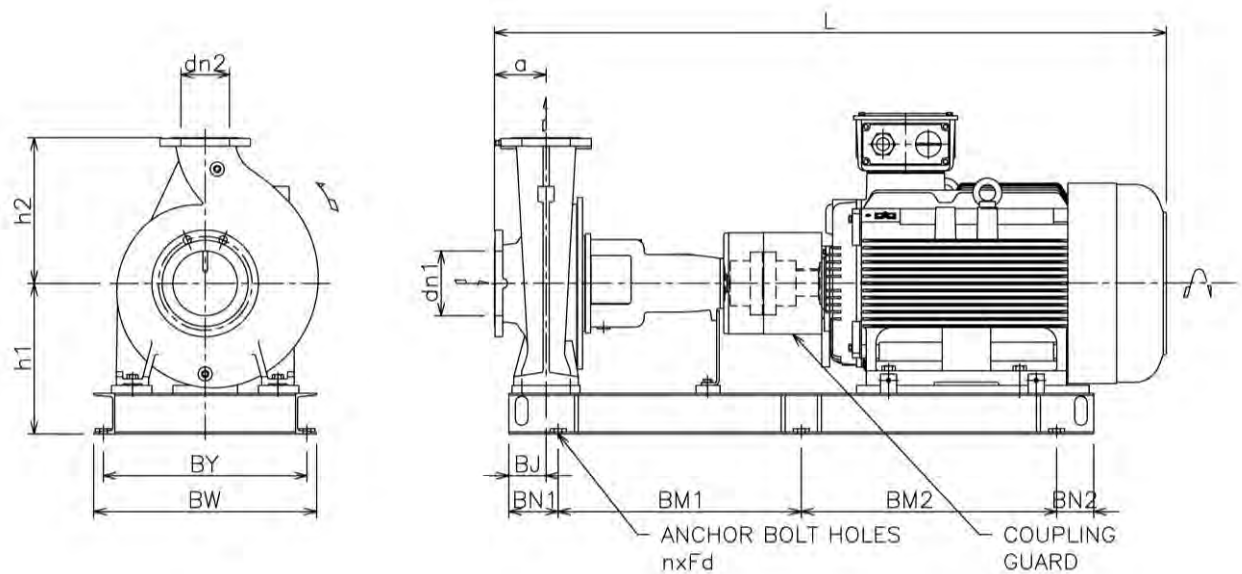
*Except for model GS/GSS 200-400



This baseplate is not necessary to grout .

Special base can be provided for grouting.

Fabricated Baseplate (Fig. B) 110kW and over



DIMENSIONS - Dimensions of Pump with motor(2P)

GS PUMP-2P 50Hz/60Hz ✓ : Applicable Doc.No.6312-W69092_rev0

Model	Pole	Hz		Power kW	Fig	Size		Pump		Mass (kg)	Motor ※1)		Baseplate										Total (Approx.)	
		50	60			φ 1	φ 2	a	h2		Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)
32-125.1	2	✓		0.75	A	50	32	80	140	28	80M	16.5	162	60	540	-	130	130	320	360	4xM16	21	736	76
		✓		1.1							80M	18											78	78
		✓		1.5							90S	23											82	82
		✓		2.2							90L	27											87	87
		✓		3							100L	37.5											98	98
		✓		4							112M	47.5											110	110
		✓		5.5							132S	61											132	132
32-125	2	✓		0.75	A	50	32	80	140	28	80M	16.5	162	60	540	-	130	130	320	360	4xM16	21	736	76
		✓		1.1							80M	18											78	78
		✓		1.5							90S	23											82	82
		✓		2.2							90L	27											87	87
		✓		3							100L	37.5											98	98
		✓		4							112M	47.5											110	110
		✓		5.5							132S	61											132	132
32-160.1	2	✓		1.5	A	50	32	80	160	29	90S	23	182	60	540	-	130	130	350	390	4xM16	23	787	88
		✓		2.2							90L	27											92	92
		✓		3							100L	37.5											105	105
		✓		4							112M	47.5											114	114
		✓		5.5							132S	61											131	131
		✓		7.5							132S	65											136	136
		✓		11							160M	105											189	189
32-160	2	✓		2.2	A	50	32	80	160	29	90L	27	182	60	540	-	130	130	350	390	4xM16	23	812	92
		✓		3							100L	37.5											105	105
		✓		4							112M	47.5											114	114
		✓		5.5							132S	61											131	131
		✓		7.5							132S	65											136	136
		✓		11							160M	105											189	189
		✓		15							160M	120											206	206
32-200.1	2	✓		3	A	50	32	80	180	39	100L	37.5	210	60	540	-	130	130	350	390	4xM16	23	835	117
		✓		4							112M	47.5											129	129
		✓		5.5							132S	61											145	145
		✓		7.5							132S	65											150	150
		✓		11							160M	105											199	199
		✓		15							160M	120											215	215
		✓		15							160M	120											215	215
32-200	2	✓		5.5	A	50	32	80	180	39	132S	61	210	60	600	-	150	150	350	390	4xM16	25	909	145
		✓		7.5							132S	65											150	150
		✓		11							160M	105											199	199
		✓		15							160M	120											215	215
		✓		18.5							160L	135											232	232
		✓		22							180M	175											282	282
		✓		22							180M	175											282	282
32-250	2	✓		7.5	A	50	32	100	225	46	132S	65	230	75	660	-	150	150	440	490	4xM20	35	929	169
		✓		11							160M	105											215	215
		✓		15							160M	120											231	231
		✓		18.5							160L	135											248	248
		✓		22							180M	175											288	288
		✓		30							200L	240											370	370
		✓		30							200L	240											370	370
40-125	2	✓		1.5	A	65	40	80	140	30	90S	23	162	60	540	-	130	130	320	360	4xM16	21	787	84
		✓		2.2							90L	27											89	89
		✓		3							100L	37.5											100	100
		✓		4							112M	47.5											112	112
		✓		5.5							132S	61											134	134
		✓		7.5							132S	65											138	138
		✓		11							160M	105											192	192
40-160	2	✓		4	A	65	40	80	160	31	112M	47.5	182	60	540	-	130	130	350	390	4xM16	23	855	116
		✓		5.5							132S	61											134	134
		✓		7.5							132S	65											138	138
		✓		11							160M	105											192	192
		✓		15							160M	120											208	208
		✓		18.5							160L	135											225	225
		✓		18.5							160L	135											225	225
40-200	2	✓		7.5	A	65	40	100	180	41	132S	65	210	60	660	-	150	150	350	390	4xM16	25	929	152
		✓		11							160M	105											201	201
		✓		15							160M	120											217	217
		✓		18.5							160L	135											234	234
		✓		22							180M	175											284	284
		✓		30							200L	240											369	369
		✓		37							200L	270											402	402
40-250	2	✓		11	A	65	40	100	225	48	160M	105	230	75	660	-	170	170	440	490	4xM20	35	1071	217
		✓		15							160M	120											234	234
		✓		18.5							160L	135											250	250
		✓		22							180M	175											291	291
		✓		30							200L	240											376	376
		✓		37							200L	270											409	409
		✓		45							225MA	315											488	488
40-315	2	✓		22	A	65	40	125	250	82	180M	175	275	75	840	-	205	205	490	540	4xM20	47	1271	355
		✓		30							200L	240											425	425
		✓		37							200L	270											458	458
		✓		45							225MA	315											520	520
		✓		55							250MA	405											641	641
		✓		55							250MA	405											641	641
		✓		75							280SA	515											802	802

※1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

DIMENSIONS - Dimensions of Pump with motor(2P)

GS PUMP-2P 50Hz/60Hz ✓ : Applicable Doc.No.6312-W69092_rev0

Model	Pole	Hz		Power kW	Fig	Size				Pump Mass (kg)	Motor ※1		Baseplate										Total (Approx.)		
		50	60			φ 1	φ 2	a	h2		Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)	
50-125	2	✓	✓	2.2	A	65	50	100	160	33	90L	27	182	60	600	-	130	130	350	390	4xM16	23	832	97	
		100L	37.5	855							110														
		112M	47.5	875							118														
		132S	61	929							136														
		132S	65	140																					
		160M	105	194																					
		160M	120	210																					
50-160	2	✓	✓	5.5	A	65	50	100	180	33	132S	61	210	60	660	-	170	170	400	450	4xM16	25	929	139	
		132S	65	143																					
		160M	105	192																					
		160M	120	209																					
		160L	135	225																					
		180M	175	230																					
		180M	240	275																					
		200L	240	250																					
		200L	270	335																					
		225MA	315	300																					
50-200	2	✓	✓	11	A	65	50	100	200	44	160M	105	210	60	660	-	170	170	400	450	4xM20	32	1071	204	
		160M	120	221																					
		160L	135	237																					
		180M	175	230																					
		180M	240	287																					
		200L	240	372																					
		200L	270	405																					
		225MA	315	300																					
		225MA	315	482																					
		250MA	405	325																					
50-250	2	✓	✓	22	A	65	50	100	225	50	180M	175	230	75	740	-	190	190	490	540	4xM20	42	1234	293	
		200L	240	378																					
		200L	270	411																					
		225MA	315	300																					
		225MA	315	490																					
		250MA	405	325																					
		250MA	405	611																					
		200L	240	275																					
		200L	270	380																					
		225MA	315	300																					
50-315	2	✓	✓	30	A	65	50	125	280	86	200L	240	275	75	840	-	205	205	490	540	4xM20	47	1369	430	
		200L	270	463																					
		225MA	315	300																					
		225MA	315	524																					
		250MA	405	325																					
		250MA	405	645																					
		280SA	515	797																					
		280SA	515	797																					
		280MA	552	847																					
		280MA	552	130																					
65-125	2	✓	✓	4	A	80	65	100	180	37	112M	47.5	210	75	660	-	170	170	400	450	4xM20	32	929	151	
		132S	61	155																					
		132S	65	196																					
		160M	105	213																					
		160M	120	229																					
		160L	135	281																					
		180M	175	230																					
		132S	65	929																					
		160M	105	210																					
		160M	120	201																					
65-160	2	✓	✓	7.5	A	80	65	100	200	41	132S	65	210	75	660	-	170	170	400	450	4xM20	32	1071	160	
		160M	105	201																					
		160M	120	217																					
		160L	135	234																					
		180M	175	285																					
		200L	240	370																					
		200L	270	403																					
		225MA	315	300																					
		225MA	315	408																					
		250MA	405	325																					
65-200	2	✓	✓	11	A	80	65	100	225	47	160M	105	230	75	740	-	190	190	490	540	4xM20	35	1071	216	
		160M	120	232																					
		160L	135	249																					
		180M	175	289																					
		200L	240	375																					
		200L	270	408																					
		225MA	315	300																					
		225MA	315	488																					
		250MA	405	325																					
		250MA	405	608																					
65-250	2	✓	✓	22	A	80	65	100	250	73	180M	175	250	90	840	-	205	205	490	540	4xM20	47	1246	337	
		200L	240	407																					
		200L	270	440																					
		225MA	315	300																					
		225MA	315	514																					
		250MA	405	325																					
		250MA	405	637																					
		280SA	515	791																					
		280SA	515	791																					
		280MA	552	832																					
65-315	2	✓	✓	55	A	80	65	125	280	90	250MA	405	325	90	1060	-	270	270	670	730	4xM24	104	1636	805	
		280SA	515	885																					
		280MA	552	855																					
		315SA	800	1173																					
		315MA	900	1283																					
		B	80	65	125	280	90	315SA	800	465	120	680	680	120	120	630	690	6xM20	170	1815	1173				
								315MA	900	1283															
								160M	105	1096															
								160M	120	1140															
								160L	135	1161															
80-160	2	✓	✓	11	A	100	80	125	225	46	160M	105	230	75	660	-	170	170	440	490	4xM20	35	1096	215	
		160M	120	231																					
		160L	135	248																					
		180M	175	288																					
		200L	240	374																					
		200L	270	407																					
		225MA	315	300																					
		225MA	315	485																					
		250MA	405	325																					
		250MA	405	606																					
80-200	2	✓	✓	22	A	100	80	125	250	67	180M	175	230	75	740	-	190	190	440	490	4xM20	39	1271	316	
		200L	240	402																					
		200L	270	435																					
		225MA	315	300																					
		225MA	315	508																					
		250MA	405	325																					
		250MA	405	630																					
		280SA	515	781																					
		280SA	515	781																					
		280MA	552	822																					
80-250	2	✓	✓	45	A	100	80	125	280	77	225MA	315	300	90	940	-	205	205	550	610	4xM24	66	1410	519	
		250MA	405	641																					
		280SA	515	795																					
		280SA	515	795																					
		280MA	552	845																					
		B	100	80	125	280	77	315SA	800	465	120	680	680	120	120	630	690	6xM20	175	1815	1164				
								315MA	900	1274															
								280MA	552	875															
								315SA	800	1203															
								315LA	980	1313															
80-315L	2	✓	✓	110	B	100	80	125	315	112	280MA	552	380	90	1060	-	270	270	670	730	4xM24	104	1746	875	
		315SA	800	1203																					
		315MA	900	1313																					
		315LA	980	1414																					
		315LA	1100	1546																					

※1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)



DIMENSIONS - Dimensions of Pump with motor(2P)

GS PUMP-2P 50Hz/60Hz

✓ : Applicable

Doc.No.6312-W6902_rev0

Model	Pole	Hz		Power kW	Fig	Size			Pump		Motor ※1		Baseplate											Total (Approx.)			
		50	60			φ 1	φ 2	a	h2	Mass (kg)	Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)			
100-160	2	✓		15	A	125	100	125	250	91		160M	120	250	90	840	-	205	205	490	540	4xM20	47	1206	300		
		✓		18.5								160L	135											1250	317		
		✓	✓	22								180M	175											1271	356		
		✓	✓	30								200L	240											1369	426		
		✓	✓	37								200L	270											1410	459		
		✓	✓	45								225MA	315											1410	534		
		✓	✓	55								250MA	405											1520	657		
100-200	2	✓		22	A	125	100	125	280	103		180M	175	250	90	840	-	205	205	490	540	4xM20	47	1271	370		
		✓		30								200L	240											1369	440		
		✓	✓	37								200L	270											1410	473		
		✓	✓	45								225MA	315											1410	547		
		✓	✓	55								250MA	405											1520	670		
		✓	✓	75	280SA	515	1636	824																			
		✓	✓	90	280MA	552	1686	865																			
		✓	✓	110	315SA	800	1815	1193																			
		✓	✓	132	315MA	900	1865	1303																			
		100-250	2	✓		37	A	125	100	140	280	108		200L	270	300	90	840	-	205	205	550	610	4xM24	66	1384	508
✓				45	225MA	315								1425	548												
✓	✓			55	250MA	405								1535	671												
✓	✓			75	280SA	515								1651	825												
✓	✓			90	280MA	552								1701	875												
✓	✓			110	315SA	800	1830	1193																			
✓	✓			132	315MA	900	1880	1303																			
100-250L	2			✓		90	A	125	100	140	280	120		280MA	552	380	90	1060	-	270	270	670	730	4xM24	104	1761	879
				✓	✓	110								315SA	800											1890	1211
		✓	✓	132	315MA	900								1940	1321												
		✓	✓	160	315LA	980	1940							1414													
		✓	✓	200	315LA	1100	2040							1555													
		✓	✓	220	355MA	1550	2300							2100													
		100-315L	2	✓		75	A							125	100											140	315
✓				90	280MA	552		1761	899																		
✓	✓			110	315SA	800		1890	1227																		
✓	✓			132	315MA	900	1940	1337																			
✓	✓			160	315LA	980	2040	1438																			
✓	✓			200	315LA	1100	2279	1570																			
125-200	2	✓		45	A	150	125	140	315	120		225MA	315	325	90	840	-	205	205	550	610	4xM24	66	1425	571		
		✓		55								250MA	405											1535	680		
		✓	✓	75								280SA	515											1651	834		
		✓	✓	90								280MA	552											1701	883		
		✓	✓	110								315SA	800											1830	1206		
		✓	✓	132	315MA							900	1880	1316													
125-250L	2	✓		75	A	150	125	140	355	148		280SA	515	380	90	1060	-	270	270	670	730	4xM24	104	1711	865		
		✓		90								280MA	552											1761	914		
		✓	✓	110								315SA	800											1890	1242		
		✓	✓	132								315MA	900											1940	1352		
		✓	✓	160								315LA	980											2040	1454		
		✓	✓	200	315LA							1100	2279											1586			
		✓	✓	220	355MA							1550	2300											2131			
		✓	✓	250	355MA							1650	2279											2241			
		125-315	2	✓								110	B											150	125	140	355
✓				132	315MA	900	1940	1393																			
✓	✓			160	315LA	980	2040	1495																			
✓	✓			200	315LA	1100	2279	1627																			
✓	✓			220	355MA	1550	2300	2162																			
✓	✓			250	355MA	1650	2279	2285																			
150-200	2	✓		37	A	200	150	160	355	154		200L	270	380	110	940	-	230	230	670	730	4xM24	92	1404	600		
		✓		45								225MA	315											1445	649		
		✓	✓	55								250MA	405											1555	745		
		✓	✓	75								280SA	515											1671	866		
		✓	✓	90	280MA							552	1721	915													
		✓	✓	110	315SA							800	1850	1254													
		✓	✓	132	315MA							900	1900	1364													
		150-250	2	✓								110	B	200	150	160	375	171		315SA	800	465	120	710	710	120	120
✓				132	315MA	900	1960	1388																			
✓	✓			160	315LA	980	2060	1489																			
✓	✓			200	315LA	1100	2279	1621																			
✓	✓			220	355MA	1550	2300	2156																			

※1) Up to 55kW: EBARA motor more than 75kW: TECO motor(AESV)

DIMENSIONS - Dimensions of Pump with motor(4P)

GS PUMP-4P 50Hz/60Hz ✓ : Applicable Doc.No.6312-W69093_rev0

Model	Pole	Hz		Power kW	Fig	Size				Pump		Motor ※1		Baseplate										Total (Approx.)	
		50	60			φ 1	φ 2	a	h2	Mass (kg)	Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)	
32-125.1	4	✓	✓	0.55	A	50	32	80	140	28	80M	15	162	60	540	-	130	130	320	360	4xM16	21	736	75	
		80M	16.5	76																					
32-125	4	✓	✓	0.55	A	50	32	80	140	28	80M	15	162	60	540	-	130	130	320	360	4xM16	21	736	75	
		80M	16.5	76																					
		90S	22	787							81														
32-160.1	4	✓	✓	0.55	A	50	32	80	160	29	80M	15	182	60	540	-	130	130	350	390	4xM16	23	736	79	
		80M	16.5	80																					
		90S	22	787							87														
		90L	24	812							89														
32-160	4	✓	✓	0.55	A	50	32	80	160	29	80M	15	182	60	540	-	130	130	350	390	4xM16	23	736	79	
		80M	16.5	80																					
		90S	22	787							87														
		90L	24	812							89														
32-200.1	4	✓	✓	0.55	A	50	32	80	180	39	80M	15	210	60	540	-	130	130	350	390	4xM16	23	736	90	
		80M	16.5	92																					
		90S	22	787							99														
		90L	24	812							101														
		100L	32	835							111														
32-200	4	✓	✓	0.75	A	50	32	80	180	39	80M	16.5	210	60	540	-	130	130	350	390	4xM16	23	736	92	
		90S	22	787							99														
		90L	24	812							101														
		100L	32	835							111														
		100L	37.5	835							118														
		100L	37.5	835							118														
32-250	4	✓	✓	0.75	A	50	32	100	225	46	80M	16.5	230	75	600	-	150	150	440	490	4xM20	31	756	109	
		90S	22	807							116														
		90L	24	832							118														
		100L	32	855							129														
		100L	37.5	855							136														
		112M	47.5	876							147														
		132S	64.0	929							168														
40-125	4	✓	✓	0.55	A	65	40	80	140	30	80M	15	162	60	540	-	130	130	320	360	4xM16	21	736	77	
		80M	16.5	79																					
		90S	22	787							83														
		90L	24	812							86														
		90L	24	812							86														
40-160	4	✓	✓	0.55	A	65	40	80	160	31	80M	15	182	60	540	-	130	130	350	390	4xM16	23	736	81	
		80M	16.5	83																					
		90S	22	787							89														
		90L	24	812							91														
		100L	32	835							101														
		100L	37.5	835							108														
40-200	4	✓	✓	1.1	A	65	40	100	180	41	90S	22	210	60	540	-	130	130	350	390	4xM16	23	807	101	
		90L	24	832							103														
		100L	32	855							113														
		100L	37.5	855							120														
		112M	47.5	876							132														
		132S	64	929							151														
40-250	4	✓	✓	1.5	A	65	40	100	225	48	90L	24	230	75	600	-	150	150	440	490	4xM20	31	832	120	
		100L	32	855							131														
		100L	37.5	855							138														
		112M	47.5	876							149														
		132S	64	929							170														
		132M	78	967							186														
40-315	4	✓	✓	2.2	A	65	40	125	250	82	100L	32	275	75	600	-	170	170	440	490	4xM20	35	990	171	
		100L	37.5	1011							177														
		112M	47.5	1011							195														
		132S	64	1102							215														
		132M	78	1102							230														
		160M	105	1207							269														
		160L	130	1251							296														

※1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

DIMENSIONS - Dimensions of Pump with motor(4P)

GS PUMP-4P 50Hz/60Hz ✓ : Applicable Doc.No.6312-W69093_rev0

Model	Pole	Hz		Power kW	Fig	Size			Pump		Motor ※1		Baseplate										Total (Approx.)	
		50	60			φ 1	φ 2	a	h2	Mass (kg)	Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)
50-125	4	✓	✓	0.55	A	65	50	100	160	33	80M	15	182	60	540	-	130	130	350	390	4xM16	23	756	83
		80M	16.5	807							91													
		90S	22	832							94													
		90L	24	855							103													
		100L	32																					
		100L	37.5																					
50-160	4	✓	✓	0.55	A	65	50	100	180	33	80M	15	210	60	540	-	130	130	350	390	4xM16	23	756	84
		80M	16.5	807							92													
		90S	22	832							94													
		90L	24	855							105													
		100L	32																					
		100L	37.5																					
50-200	4	✓	✓	1.1	A	65	50	100	200	44	90S	22	210	60	540	-	130	130	350	390	4xM16	23	807	104
		90L	24	832							106													
		100L	32	855							117													
		100L	37.5	876							124													
		112M	47.5	876							135													
		132S	64	929							154													
50-250	4	✓	✓	1.5	A	65	50	100	225	50	100L	32	230	75	600	-	150	150	440	490	4xM20	31	855	133
		100L	37.5	876							140													
		112M	47.5	876							151													
		132S	64	929							172													
		132M	78	967							188													
		160M	105	1071							219													
50-315	4	✓	✓	4	A	65	50	125	280	86	112M	47.5	275	75	660	-	170	170	440	490	4xM20	35	1011	198
		132S	64	1064							219													
		132M	78	1102							234													
		160M	105	1207							273													
		160L	130	1251							300													
		180M	175	1271							359													
65-125	4	✓	✓	0.55	A	80	65	100	180	37	80M	15	210	75	540	-	130	130	400	450	4xM20	26	756	92
		80M	16.5	807							93													
		90S	22	807							100													
		90L	24	832							102													
		100L	32	855							112													
		100L	37.5	855							119													
65-160	4	✓	✓	0.75	A	80	65	100	200	41	80M	16.5	210	75	540	-	130	130	400	450	4xM20	26	756	98
		90S	22	807							104													
		90L	24	832							106													
		100L	32	855							117													
		100L	37.5	855							124													
		112M	47.5	876							135													
65-200	4	✓	✓	1.1	A	80	65	100	225	47	90L	24	230	75	600	-	150	150	440	490	4xM20	31	832	119
		100L	32	855							130													
		100L	37.5	855							137													
		112M	47.5	876							148													
		132S	64	929							169													
		132M	78	967							184													
65-250	4	✓	✓	1.5	A	80	65	100	250	73	90L	24	250	90	740	-	190	190	490	540	4xM20	42	832	119
		100L	32	855							130													
		100L	37.5	855							137													
		112M	47.5	876							148													
		132S	64	929							169													
		132M	78	967							184													
65-315	4	✓	✓	3	A	80	65	125	280	90	100L	37.5	300	90	840	-	205	205	550	610	4xM24	66	965	178
		112M	47.5	986							190													
		132S	64	1039							211													
		132M	78	1077							226													
		160M	105	1181							264													
		160L	130	1226							293													
65-315	4	✓	✓	7.5	A	80	65	125	280	90	132M	78	300	90	840	-	205	205	550	610	4xM24	66	1102	273
		160M	105	1207							307													
		160L	130	1251							335													
		180M	175	1271							384													
		180L	190	1309							405													
		200L	255	1369							472													

※1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

DIMENSIONS - Dimensions of Pump with motor(4P)

GS PUMP-4P 50Hz/60Hz ✓ : Applicable Doc.No.6312-W69093_rev0

Model	Pole	Hz		Power kW	Fig	Size		Pump		Motor ※1		Baseplate								Total (Approx.)				
		50	60			φ 1	φ 2	a	h2	Mass (kg)	Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxM2	Mass (kg)	L	Mass (kg)
80-160	4	✓		1.1	A	100	80	125	225	46	90S	22	230	75	600	-	150	150	440	490	4xM20	31	832	116
		✓		1.5							90L	24											857	118
		✓	✓	2.2							100L	32											880	129
		✓	✓	3							100L	37.5											901	147
		✓		4							112M	47.5											954	168
		✓	✓	5.5							132S	64											992	183
		✓	✓	7.5							132M	78												
80-200	4	✓		2.2	A	100	80	125	250	67	100L	32	230	75	600	-	150	150	440	490	4xM20	31	990	153
		✓		3							100L	37.5											1011	175
		✓	✓	4							112M	47.5											1064	196
		✓	✓	5.5							132S	64											1102	211
		✓	✓	7.5							132M	78											1206	242
		✓	✓	11							160M	105											1251	271
		✓	✓	15							160L	130												
80-250	4	✓		5.5	A	100	80	125	280	77	132S	64	275	90	840	-	205	205	550	610	4xM24	66	1064	241
		✓	✓	7.5							132M	78											1102	257
		✓	✓	11							160M	105											1207	291
		✓	✓	15							160L	130											1251	319
		✓	✓	18.5							180M	175											1271	362
		✓	✓	22							180L	190											1309	382
		✓	✓								200L	255												
80-315	4	✓		11	A	100	80	125	315	101	160M	105	325	90	840	-	205	205	550	610	4xM24	66	1207	321
		✓		15							160L	130											1251	349
		✓	✓	18.5							180M	175											1271	402
		✓	✓	22							180L	190											1309	418
		✓	✓	30							200L	255											1369	493
		✓	✓	37							225SC	315											1415	555
		✓	✓	45							225MC	330											1440	572
80-400	4	✓		11	A	100	80	125	355	162	160M	105	355	90	840	-	205	205	550	610	4xM24	66	1267	390
		✓		15							160L	130											1311	418
		✓	✓	18.5							180M	175											1331	480
		✓	✓	22							180L	190											1369	497
		✓	✓	30							200L	255											1429	578
		✓	✓	37							225SC	315											1475	643
		✓	✓	45							225MC	330											1500	668
		✓	✓	55							250MC	450											1580	798
		✓	✓	75							280SB	566											1696	940
		✓	✓	90							280MB	624											1746	1012
		✓	✓								280MB	624												
100-160	4	✓		2.2	A	125	100	125	250	91	100L	32	250	90	740	-	190	190	490	540	4xM20	42	990	192
		✓		3							100L	37.5											1011	210
		✓	✓	4							112M	47.5											1064	230
		✓	✓	5.5							132S	64											1102	246
		✓	✓	7.5							132M	78												
100-200	4	✓		4	A	125	100	125	280	103	112M	47.5	250	90	740	-	190	190	490	540	4xM20	42	1011	223
		✓	✓	5.5							132S	64											1064	243
		✓	✓	7.5							132M	78											1102	259
		✓	✓	11							160M	105											1207	299
		✓	✓	15							160L	130											1251	326
		✓	✓	18.5							180M	175											1271	370
100-250	4	✓		5.5	A	125	100	140	280	108	132S	64	300	90	840	-	205	205	550	610	4xM24	66	1079	277
		✓		7.5							132M	78											1117	293
		✓	✓	11							160M	105											1222	327
		✓	✓	15							160L	130											1266	354
		✓	✓	18.5							180M	175											1286	408
		✓	✓	22							180L	190											1324	424
		✓	✓	30							200L	255											1384	491
100-315	4	✓		7.5	A	125	100	140	315	109	132M	78	325	90	840	-	205	205	550	610	4xM24	66	1117	295
		✓		11							160M	105											1222	330
		✓	✓	15							160L	130											1266	358
		✓	✓	18.5							180M	175											1286	410
		✓	✓	22							180L	190											1324	427
		✓	✓	30							200L	255											1384	507
		✓	✓	37							225SC	315											1430	564
		✓	✓	45							225MC	330											1455	580
100-400	4	✓		15	A	125	100	140	355	189	160L	130	380	110	940	-	230	230	670	730	4xM24	92	1326	476
		✓		18.5							180M	175											1346	530
		✓	✓	22							180L	190											1384	546
		✓	✓	30							200L	255											1444	627
		✓	✓	37							225SC	315											1490	692
		✓	✓	45							225MC	330											1515	718
		✓	✓	55							250MC	450											1595	842
		✓	✓	75							280SB	566											1711	969
		✓	✓	90							280MB	624											1761	1042
		✓	✓								280MB	624												

※1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

DIMENSIONS - Dimensions of Pump with motor(4P)

GS PUMP-4P 50Hz/60Hz				✓ : Applicable		Doc.No.6312-W69093_rev0																																				
Model	Pole	Hz		Power kW	Fig	Size		Pump		Motor ※1)		Baseplate								Total (Approx.)																						
		50	60			φ 1	φ 2	a	h2	Mass (kg)	Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)																		
125-200	4	✓		5.5	A	150	125	140	315	120	132S	64	325	90	840	-	205	205	550	610	4xM24	66	1079	291																		
		✓	✓	7.5							132M	78											1117	307																		
		✓	✓	11							160M	105											1222	342																		
		✓	✓	15							160L	130											1266	370																		
			✓	18.5							180M	175											1286	419																		
			✓	22							180L	190											1324	439																		
125-250	4	✓		11	A	150	125	140	355	131	160M	105	325	90	840	-	205	205	550	610	4xM24	66	1222	354																		
		✓		15							160L	130											1266	382																		
		✓	✓	18.5							180M	175											1286	435																		
		✓	✓	22							180L	190											1324	451																		
			✓	30							200L	255											1384	531																		
			✓	37							225SC	315											1430	588																		
			✓	45							225MC	330											1455	605																		
			✓	55							250MC	450											1595	828																		
125-315	4	✓		15	A	150	125	140	355	176	160L	130	380	110	940	-	230	230	670	730	4xM24	92	1326	462																		
		✓		18.5							180M	175											1346	516																		
		✓	✓	22							180L	190											1384	532																		
		✓	✓	30							200L	255											1444	613																		
		✓	✓	37							225SC	315											1490	678																		
		✓	✓	45							225MC	330											1515	703																		
			✓	55							250MC	450											1595	828																		
			✓	75							280SB	566											1711	955																		
																							1060	270	270		104	1711	955													
		125-400	4	✓								22											A	150	125	140	400	218	180L	190	415	110	940	-	230	230	670	730	4-M24	92	1384	580
✓				30	200L	255	1444	661																																		
✓				37	225SC	315	1490	728																																		
✓	✓			45	225MC	330	1515	754																																		
✓	✓			55	250MC	450	1595	901																																		
✓	✓			75	280SB	566	1711	1040																																		
	✓			90	280MB	624	1761	1104																																		
	✓			110	315SB	800	1920	1338																																		
	✓			132	315MB	900	1970	1448																																		
							1060	270	270		104	1711	1040																													
125-500	4			✓		30	A	150	125	180	450	365	200L	255	475	110	1060	-	270	270	670	730							4xM24	104											1624	840
				✓		37							225SC	315																											1670	908
		✓	✓	45	225MC	330							1695	933																												
		✓	✓	55	250MC	450							1775	1071																												
		✓	✓	75	280SB	566							1891	1226																												
		✓	✓	90	280MB	624							1941	1290																												
		✓	✓	110	315SB	800							2100	1535																												
			✓	132	315MB	900							2150	1645																												
			✓	160	315LB	990							2250	1762																												
													1060	270									270		117	1941	1290															
													525	115									790	790	115	115	630	690			6xM20	220	2100	1535								
		150-200	4	✓		4							A	200									150	160	355	154	112M	47.5			380	110	940	-	230	230	670	730	4xM24	92	1046	337
✓				5.5	132S	64	1099	358																																		
✓	✓			7.5	132M	78	1137	374																																		
✓	✓			11	160M	105	1242	410																																		
✓	✓			15	160L	130	1286	437																																		
	✓			18.5	180M	175	1306	488																																		
	✓			22	180L	190	1344	508																																		
							1060	270	270		104	1346			457																											
150-250	4			✓		15	A	200	150	160	375	171			160L	130	380	110	940	-	230	230					670	730	4xM24	92											1346	457
				✓		18.5									180M	175																									1366	510
		✓		22	180L	190							1404	527																												
		✓	✓	30	200L	255							1464	607																												
		✓	✓	37	225SC	315							1510	672																												
		✓	✓	45	225MC	330							1535	698																												
			✓	55	250MC	450							1615	822																												
			✓	75	280SB	566							1731	950																												
													1060	270	270								104	1731	950																	
		150-315	4	✓		18.5							A	200	150	160							400	225	180M	175					415	110	940	-	230	230	670	730	4xM24	92	1366	571
✓				22	180L	190	1404	588																																		
✓				30	200L	255	1464	669																																		
✓	✓			37	225SC	315	1510	736																																		
✓	✓			45	225MC	330	1535	761																																		
✓	✓			55	250MC	450	1615	909																																		
✓	✓			75	280SB	566	1731	1058																																		
	✓			90	280MB	624	1781	1122																																		
	✓			110	315SB	800	1940	1346																																		
	✓			132	315MB	900	1990	1456																																		
							1060	270	270		104	1731					1058																									
							465	120	710	710	120	120					630	690	6xM20	185	1940	1346																				

※1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

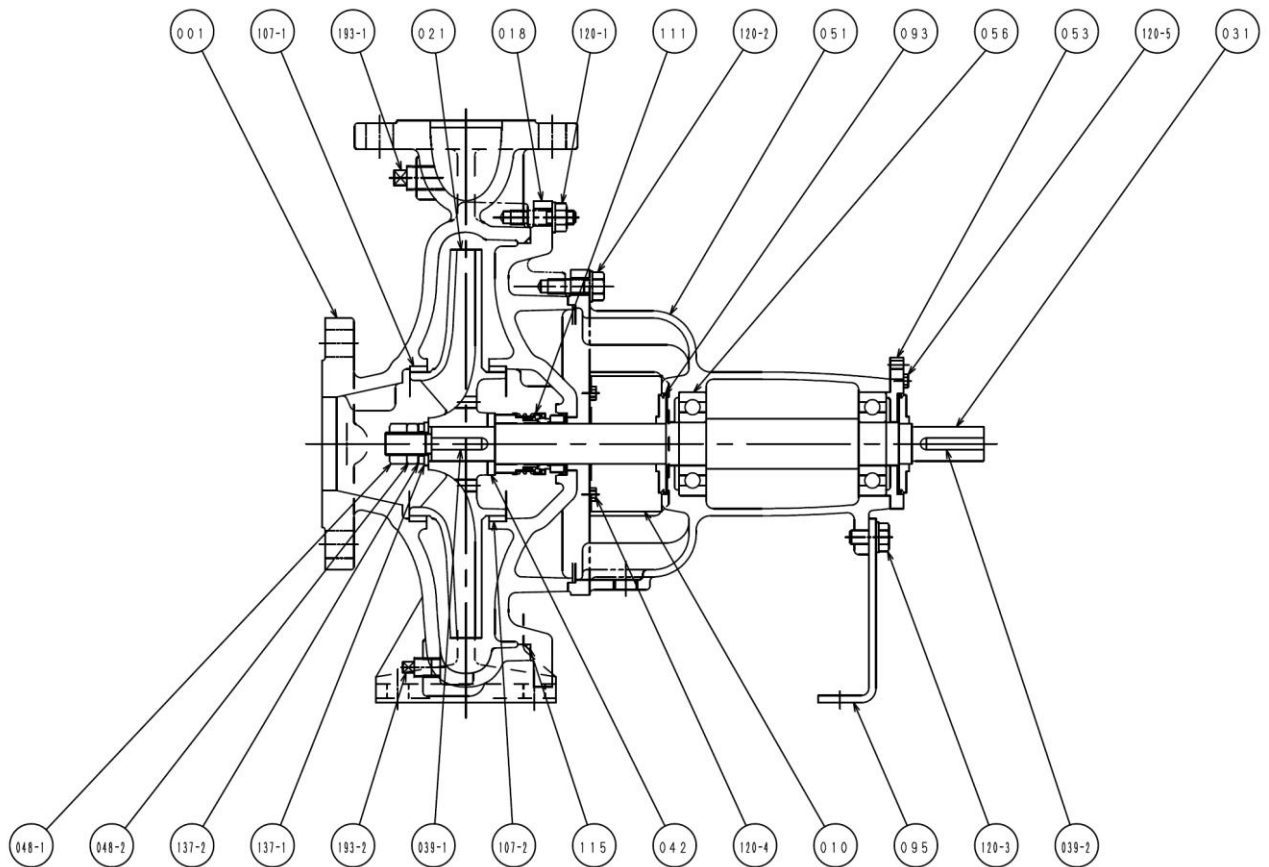
DIMENSIONS - Dimensions of Pump with motor(4P)

GS PUMP-4P 50Hz/60Hz ✓ : Applicable Doc.No.6312-W69093_rev0

Model	Pole	Hz		Power kW	Fig	Size			Pump		Motor ※(1)		Baseplate										Total (Approx.)																					
		50	60			φ 1	φ 2	a	h2	Mass (kg)	Frame	Mass (kg)	h1	BJ	BM1	BM2	BN1	BN2	BY	BW	nxFd	Mass (kg)	L	Mass (kg)																				
150-400	4	✓		37	A	200	150	160	450	339	225SC	315	415	110	940		230	230	670	730	4xM24	92	1510	861																				
		✓		45							225MC	330																																
		✓		55							250MC	450																					104	1615	1035									
		✓		75							280SB	566															270	270																
		✓		90							280MB	624																																
150-400L	4		✓	55	A	200	150	160	450	363	250MC	450	415	110	1060		270	270	670	730	4xM24	104	1755	1061																				
			✓	75							280SB	566																																
			✓	90							280MB	624															1200	-	300	300														
			✓	110	315SB						800	B	200	150	160	450	363	315SB	800	465	115	790	790	115	115	630	690	6xM20	190	2080	1502													
			✓	132	315MB						900																																	
			✓	160	315LB						990																							845	845									
			✓	200	315LB						1160																														200	2230	1735	
150-500	4	✓		55	A	200	150	180	560	491	250MC	450						475	110	1060		270	270	670	730	4xM24	104	1775	1210															
		✓		75							280SB	566																																
		✓		90							280MB	624																																
		✓		110							315SB	800																																
		✓	✓	132							315MB	900															790	790																
		✓	✓	160	315LB						990	B	200	150	180	560	491	315LB	990	525	115	845	845	115	115	630	690	6xM20	225	2250	1735													
			✓	200	315LB						1160																																	
			✓	220	355MB						1550																																	
			✓	250	355MB						1650																																	
			✓	315	355LB						1900																																	
			✓	315	355LB						1900																																	
200-400	4	✓		75	B	250	200	180	560	508	280SB	566						535	220	650	650	680	740	6xM20	235	1891	1449																	
		✓		90							280MB	624																																
		✓		110							315SB	800																																
		✓	✓	132							315MB	900																																
		✓	✓	160							315LB	990																																
		✓	✓	200	315LB						1160	560	250	200	180	560	508	315LB	1160	560	220	795	795	220	220	680	740	6xM20	290	2250	1984													
		✓	✓	220	355MB						1550																																	
		✓	✓	250	355MB						1650																																	
		✓	✓	315	355LB						1900																																	
		✓	✓	315	355LB						1900																																	
		✓	✓	375	355CB						2340																																	
200-500	4	✓		160	B	250	200	200	630	645	315LB	990						585	220	870	870	680	740	6xM20	260	2420	2105																	
		✓		200							315LB	1160																																
		✓		220							355MB	1550																																
		✓	✓	250							355MB	1650						610	250	200	200	630	645	355MB	1650	610	220	975	975	220	220	680	740	6xM22	370	2669	2843							
		✓	✓	315							355LB	1900																																
		✓	✓	315							355LB	1900																																
		✓	✓	375							355CB	2340																																

※(1) Up to 55kW: EBARA motor
more than 75kW: TECO motor(AESV)

CONSTRUCTION - Sectional view (Mechanical Seal Type)

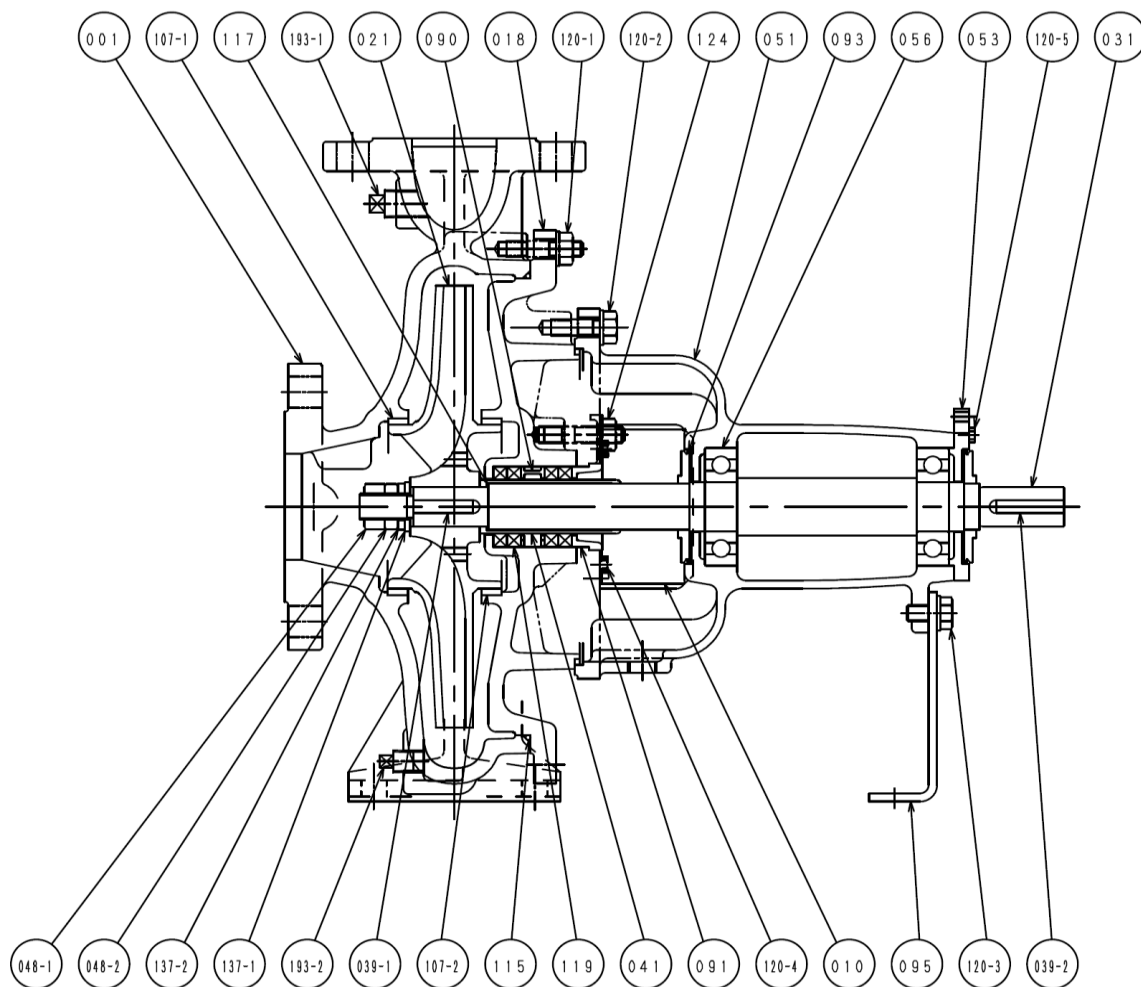


Mechanical Seal Type

No.	Part name	Qty
001	CASING	1
010	PROTECTOR	2
018	CASING COVER	1
021	IMPELLER	1
031	SHAFT	1
039-1	KEY	1
039-2	KEY	1
042	SPACER	1
048-1	IMPELLER NUT (A)	1
048-2	IMPELLER NUT (B)	1
051	BEARING HOUSING	1
053	BEARING COVER	1
056	BALL BEARING	2
093	DEFLECTOR	2

No.	Part name	Qty
095	STAY	1
107-1	CASE WEAR RING	1
107-2	CASE WEAR RING	1
111	MECHANICAL SEAL	1
115	O-RING	1
120-1	BOLT	-
120-2	BOLT	6
120-3	BOLT	1
120-4	BOLT	4
120-5	BOLT	4
137-1	PLAIN WASHER	1
137-2	SPRING LOCK WASHER	1
193-1	PLUG	1
193-2	PLUG	1

CONSTRUCTION - Sectional view (Gland Packing Type)



Gland Packing Type

No.	Part name	Qty
001	CASING	1
010	PROTECTOR	2
018	CASING COVER	1
021	IMPELLER	1
031	SHAFT	1
039-1	KEY	1
039-2	KEY	1
041	SHAFT SLEEVE	1
048-1	IMPELLER NUT (A)	1
048-2	IMPELLER NUT (B)	1
051	BEARING HOUSING	1
053	BEARING COVER	1
056	BALL BEARING	2
090	LANTERN RING	1
091	GLAND	1
093	DEFLECTOR	2

No.	Part name	Qty
095	STAY	1
107-1	CASE WEAR RING	1
107-2	CASE WEAR RING	1
115	O-RING	1
117	GASKET	1
119	GLAND PACKING	4
120-1	BOLT	-
120-2	BOLT	6
120-3	BOLT	1
120-4	BOLT	4
120-5	BOLT	4
124	GLAND BOLT	2
137-1	PLAIN WASHER	1
137-2	SPRING LOCK WASHER	1
193-1	PLUG	1
193-2	PLUG	1

CONSTRUCTION - Materials of Constructions

No.	Name of part	Material	JIS Material	ASTM equivalent	ISO or EN equivalent	Remarks	Material group			
							G1	G2	G3	G4
001	CASING	Cast iron	FC250	A278-35	EN-GJL-250(EN-JL1040)		●	●	●	●
010	PROTECTOR	Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15(5.3106)		○	○	○	○
		Carbon steel	SPPC	A569	DC01(1.0330)		●	●	●	●
018	CASING COVER (conical)	Cast iron	FC250	A278-35	EN-GJL-250(EN-JL1040)		●	●	●	●
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15(5.3106)		○	○	○	○
021	IMPELLER	Cast iron	FC200	A278-30	EN-GJL-200(EN-JL1030)		●	●	●	●
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15(5.3106)		○	○	○	○
031	SHAFT	Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5(CC491K)		●	●	●	●
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)					
039-1	KEY	Cr. steel	SUS431eq.	A276-431	X17CrNi16-2(1.4057)		●	●	●	●
		Duplex stainless steel	SUS329J3L /S35C	A276-S31803 /Grade1035	X2CrNiMoN22-5-3(1.4462) /C35					
039-2	KEY	12% Cr. steel	SUS420J2	A276-420	X30Cr13(1.4028)		●	●	●	○
042	SPACER	316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)		●	●	●	●
		Carbon steel	S50C	A576-1050	C50(1.0540)		●	●	●	●
048-1	IMPELLER NUT (A)	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
048-2	IMPELLER NUT (B)	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
051	BEARING HOUSING	Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)		●	●	●	●
053	BEARING COVER	Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)		●	●	●	●
056	BALL BEARING	Steel	---	---	---		●	●	●	●
093	DEFLECTOR	EPDM	---	---	---		●	●	●	●
095	STAY	Carbon steel	SPHC	A569	---		●	●	●	●
107	CASE WEAR RING	Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5(CC491K)		●	●	●	●
		Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)		●	●	●	●
111	MECHANICAL SEAL	Sic/carbon/FKM	---	---	---		●	●	●	●
		Sic/carbon/EPDM	---	---	---		○	○	○	○
		Tc/carbon/EPDM	---	---	---		○	○	○	○
		Sic/Sic/	---	---	---		○	○	○	○
115	O-RING	NBR	---	---	---		●	●	●	●
		FKM	---	---	---		○	○	○	○
120	BOLTS	EPDM	---	---	---		○	○	○	○
		Carbon steel	SS	A283-D	---		●	●	●	●
137-1	PLAIN WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
137-2	SPRING LOCK WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
193-1	PLUG	Carbon steel	SS	A283-D	---		●	●	●	●
193-2	PLUG	Carbon steel	SS	A283-D	---		●	●	●	●

Materials of mechanical seal application (conical type) ● : Standard ○ : Optional

(*1) Except pumps model GS100-400, 125-400, 150-400, 150-500, 200-400 and 200-500, impellers made of cast iron are applied for all pumps.
 (*2) Impellers made of ductile cast iron are applied only the pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500.
 (*3) Duplex stainless steel is used for wetted part only. The remaining atmospheric side of shaft is made of carbon steel.
 (*4) Deep groove ball bearing, single row / Vacuum degassed steel



Materials of gland packing application (*5)

● : Standard ○ : Optional

No.	Name of part	Material	JIS Material	ASTM equivalent	ISO or EN equivalent	Remarks	Material group			
							G1	G2	G3	G4
018	CASING COVER (cylindrical)	Cast iron	FC250	A278-35	EN-GJL-250(EN-JL1040)		●	●	●	●
041	SHAFT SLEEVE	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
090	LANTERN RING	Cast iron	FC150 or 200	A48-20 or 30	EN-GJL-150(EN-JL1020) or EN-GJL-200(EN-JL1030)			○		
091	GLAND	Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5(CC491K)		●		●	
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)				○	
		Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)				○	
117	GASKET	Joint sheet gasket	---	---	---	V#6500AC eq.	●	●	●	●
119	GLAND PACKING	Silicone carbide fiber packing	---	---	---	P#6501L or P#6502L	●	●	●	●
124	GLAND BOLT	12% Cr. steel	SUS403	A276-403	---				○	
		Brass	C3604BD	B16-C36000	---					
		304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●			○

(*5) The components which constitute the gland packing pump are these parts instead of P/N 018, 042 and 111of the mechanical seal pump.

Explanation of Material Group

Material Group	Casing, 001 and Casing Cover, 018	Impeller, 021	Case Wear Ring, 107	Shaft, 031	Notes	
G1	Casting iron or Ductile cast irons	Cast iron or Ductile cast irons	Bronze	Cr.steel	Cast iron impeller with Bronze case wear ring	
G2		Cast iron or Ductile cast irons	Cast iron	Cr.steel	All wetted parts are iron material.	
G3		Ductile cast irons	Bronze	Bronze	Cr.steel	Bronze impeller with Bronze case wear ring
G4			304 Stainless steel	Cast iron	Duplex stainless steel	Stainless steel impeller with Duplex stainless steel shaft

Material availability depend on pump models and flange rating

MODEL	CASING, 001/ CASING COVER, 018		IMPELLER, 021				SHAFT SEAL		FLANGE (CASING, 001)				
	MATERIALS												
	CAST IRON	DUCTILE CAST IRON	CAST IRON	DUCTILE CAST IRON	BRONZE	304 STAINLESS STEEL			CAST IRON	DUCTILE CAST IRON	CAST IRON	DUCTILE CAST IRON	
JIS	FC250	FCD400	FC200	FCD400	CAC406	SCS13	MECH. SEAL, 111	GLAND PACKING, 119	EN			JIS	
ASTM eq.	A278-35	A536-60 -40-18	A278-30	A536-60 -40-18	B584 C83600	A351-CF8			PN10	PN16	PN25	10K	20K
32-125.1	□	-	□	-	□	□	□	□	□	-	□	-	
32-160.1	□	-	□	-	□	□	□	□	□	-	□	-	
32-200.1	□	-	□	-	□	□	□	□	□	-	□	-	
32-125	□	-	□	-	□	□	□	□	□	-	□	-	
32-160	□	-	□	-	□	□	□	□	□	-	□	-	
32-200	□	-	□	-	□	□	□	□	□	-	□	-	
32-250	□	-	□	-	□	□	□	□	□	-	□	-	
40-125	□	-	□	-	□	□	□	□	□	-	□	-	
40-160	□	-	□	-	□	□	□	□	□	-	□	-	
40-200	□	-	□	-	□	□	□	□	□	-	□	-	
40-250	□	-	□	-	□	□	□	□	□	-	□	-	
40-315	□	-	□	-	□	-	□	□	□	-	□	-	
50-125	□	-	□	-	□	□	□	□	□	-	□	-	
50-160	□	-	□	-	□	□	□	□	□	-	□	-	
50-200	□	-	□	-	□	□	□	□	□	-	□	-	
50-250	□	-	□	-	□	□	□	□	□	-	□	-	
50-315	□	-	□	-	□	□	□	□	□	-	□	-	
65-125	□	-	□	-	□	□	□	□	□	-	□	-	
65-160	□	-	□	-	□	□	□	□	□	-	□	-	
65-200	□	-	□	-	□	□	□	□	□	-	□	-	
65-250	□	-	□	-	□	□	□	□	□	-	□	-	
65-315	□	-	□	-	□	□	□	□	□	-	□	-	
80-160	□	◇	□	-	□	□	□	△	□	◇	□	◇	
80-200	□	◇	□	-	□	□	□	△	□	◇	□	◇	
80-250	□	◇	□	-	□	□	□	△	□	◇	□	◇	
80-315	□	◇	□	-	□	□	□	△	□	◇	□	◇	
80-315L	□	◇	□	-	□	□	□	△	□	◇	□	◇	
80-400	□	◇	□	-	□	□	□	△	□	◇	□	◇	
100-160	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
100-200	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
100-250	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
100-250L	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
100-315	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
100-315L	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
100-400	□	◇	-	□	□	Later	□	△	□	◇	□	◇	
125-200	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
125-250	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
125-250L	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
125-315	□	◇	□	-	□	Later	□	△	□	◇	□	◇	
125-400	□	◇	-	□	□	Later	□	△	□	◇	□	◇	
125-500	□	◇	-	□	□	Later	□	△	□	◇	□	◇	
150-200	□	◇	□	-	□	Later	□	△	-	□	◇	□	◇
150-250	□	◇	□	-	□	Later	□	△	-	□	◇	□	◇
150-315	□	◇	□	-	□	Later	□	△	-	□	◇	□	◇
150-400	□	◇	-	□	□	Later	□	△	-	□	◇	□	◇
150-400L	□	◇	-	□	□	Later	□	△	-	□	◇	□	◇
150-500	□	◇	-	□	□	Later	□	△	-	□	◇	□	◇
200-400	□	◇	-	□	□	Later	□	△	-	□	◇	□	◇
200-500	□	◇	-	□	□	Later	□	△	-	□	◇	□	◇

□ : Available

◇, △ : Available with the following conditions

◇ : Pumps of ductile cast iron made are applied only the mechanical seal application and flange rating of EN PN25 or JIS20K.

△ : Gland packing installed pumps of ductile cast iron made do not exist.

Mechanical seal selection of conical type (*1)

Description		Standard	Optional	
Liquid temp (*2)		-10~120 °C	-10~120 °C	0~140 °C
Materials (*3)		SiC / C / FKM	SiC / C / EPDM	Tc / C / EPDM (*4)
Max. allowable operating pressure (*5)(*6)	Shaft no. 230,240,250,260	-0.5~24.5 bar (-0.05~2.45MPa)	-0.5~16 bar (-0.05~1.6MPa)	-0.2~25 bar (-0.02~2.5MPa)
	Shaft no. 270,280	-0.5~16 bar (-0.05~1.6MPa)		

(*1) This table shows only the EBARA standard type mechanical seal. If you want mechanical seal with other types or material combinations, please contact engineering center.

(*2) Please contact engineering center for the application of low temperature mechanical seal.

(*3) SiC : silicon carbide / Tc : Tungsten carbide / C : carbon

(*4) It is prohibited to adopt this type mechanical seal for portable water applications.

(*5) These value show the allowable range of mechanical seal itself.

(*6) Calculation of P box is based on below equation.

$$P_{box} = (0.05 \times T.H.) + P_s$$

Pbox: Box pressure

T.H.: Total head in pressure (Differential pressure)

P_s: Suction pressure

Gland packing

Gland packing material	Liquid temp (*7)	Shaft no.230,240,250		Shaft no.260,270,280	
		Max.speed	Allowable operating pressure(*7)(*8)	Max.speed	Allowable operating pressure(*7)(*8)
Silicone carbide fiber packing (P#6501L or P#6502L)	0~80°C	3600 min-1	6 bar (0.6 MPa)	1800 min-1	6 bar (0.6 MPa)

(*7) These value show the allowable range of gland packing itself.

(*8) Calculation of P box is based on below equation.

$$P_{box} = (0.05 \times T.H.) + P_s$$

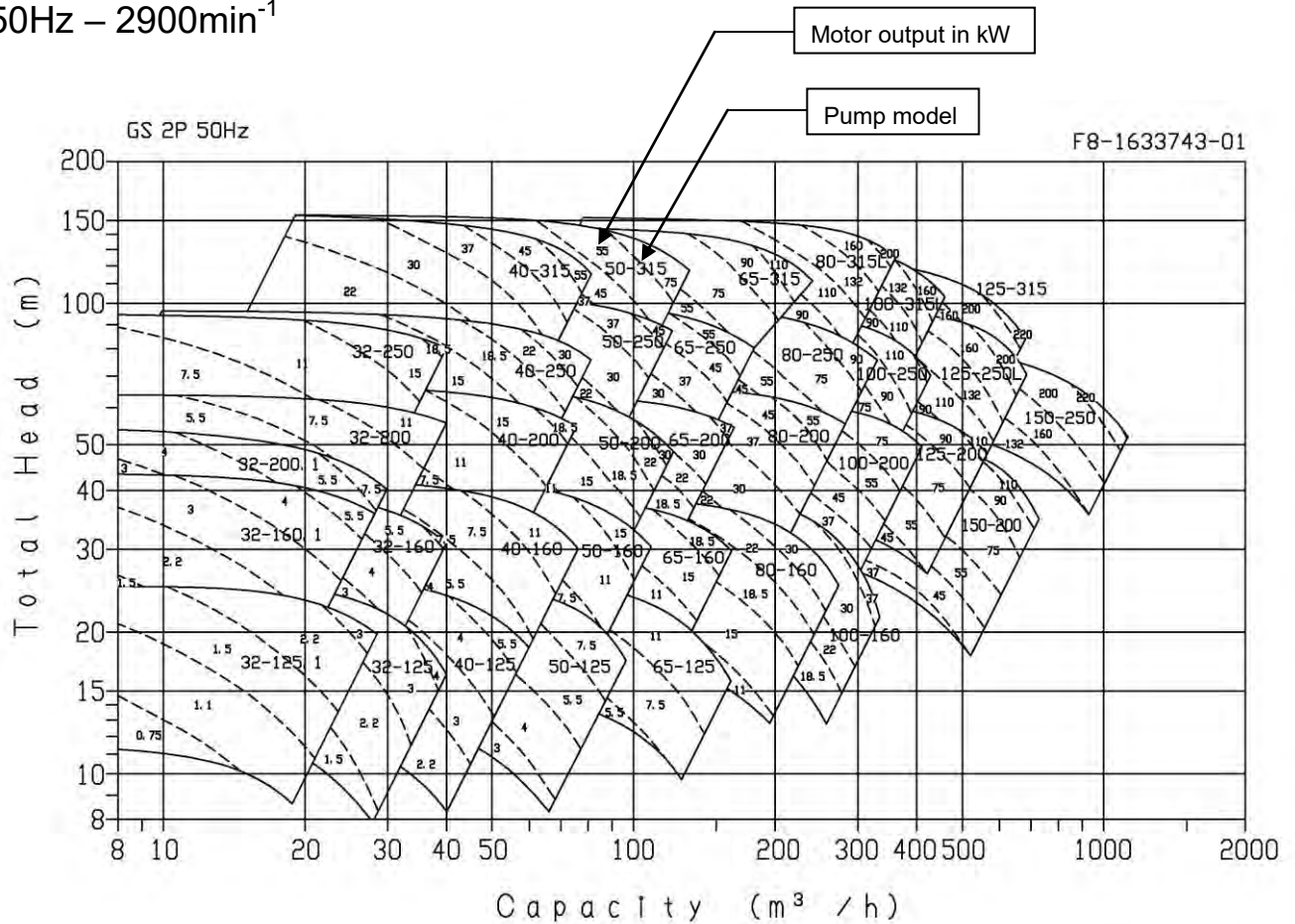
Pbox: Box pressure

T.H.: Total head in pressure (Differential pressure)

P_s: Suction pressure

SELECTION CHART

50Hz – 2900min⁻¹



Note1 : The values inside the broken lines are motor output(kW) in case of density 1.0kg/ℓ and viscosity 1.0mPa · s.

Note2 : The indicated motor output(kW) value includes the following safety margins ;

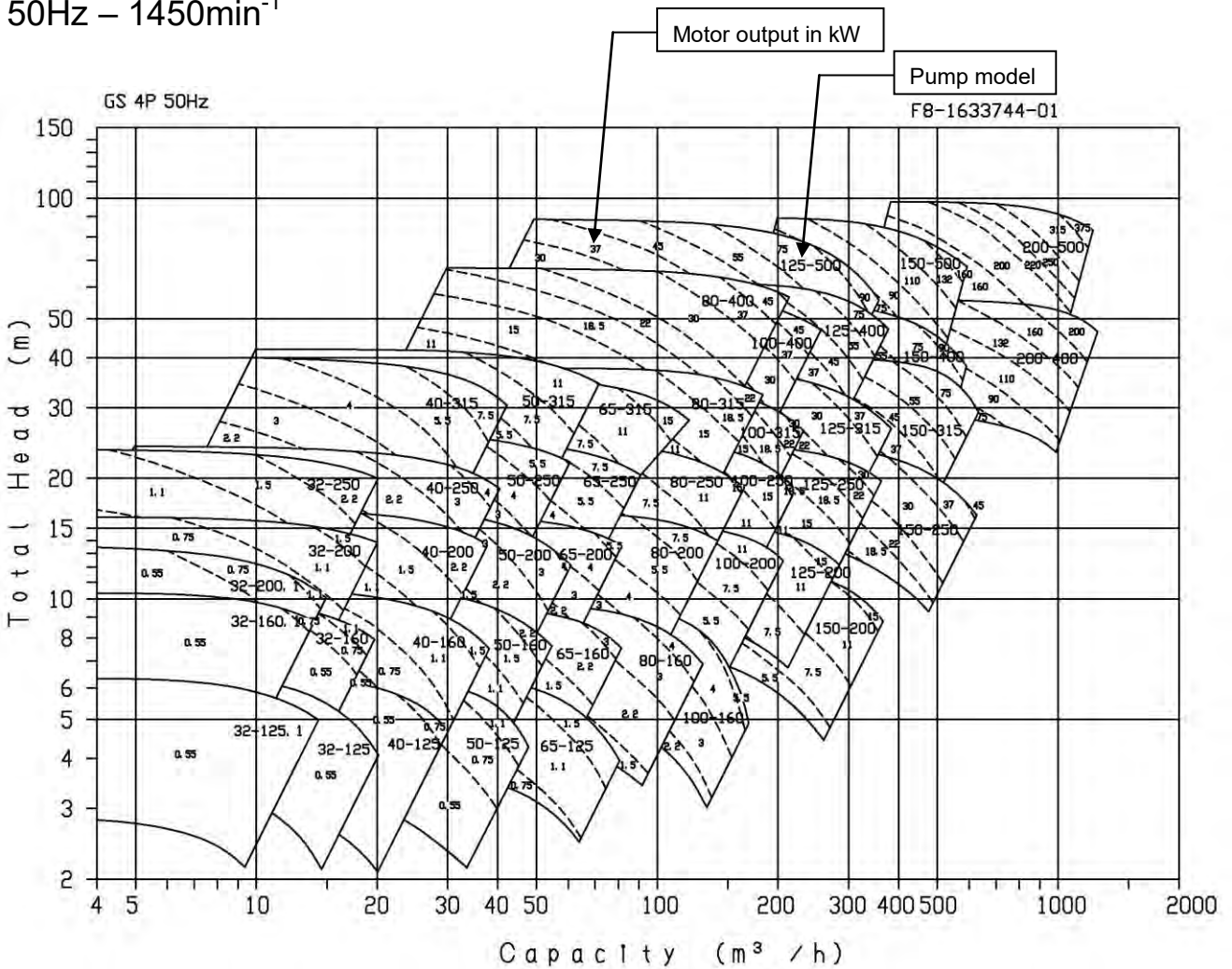
up to 7.5kW : 15%

11kW and above : 10%

Note3 : When selecting a pump , NPSH Av. should have a safety margin of at least 0.5m from NPSH Re.

SELECTION CHART

50Hz – 1450min⁻¹



Note1 : The values inside the broken lines are motor output(kW) in case of density 1.0kg/ℓ and viscosity 1.0mPa · s.

Note2 : The indicated motor output(kW) value includes the following safety margins ;

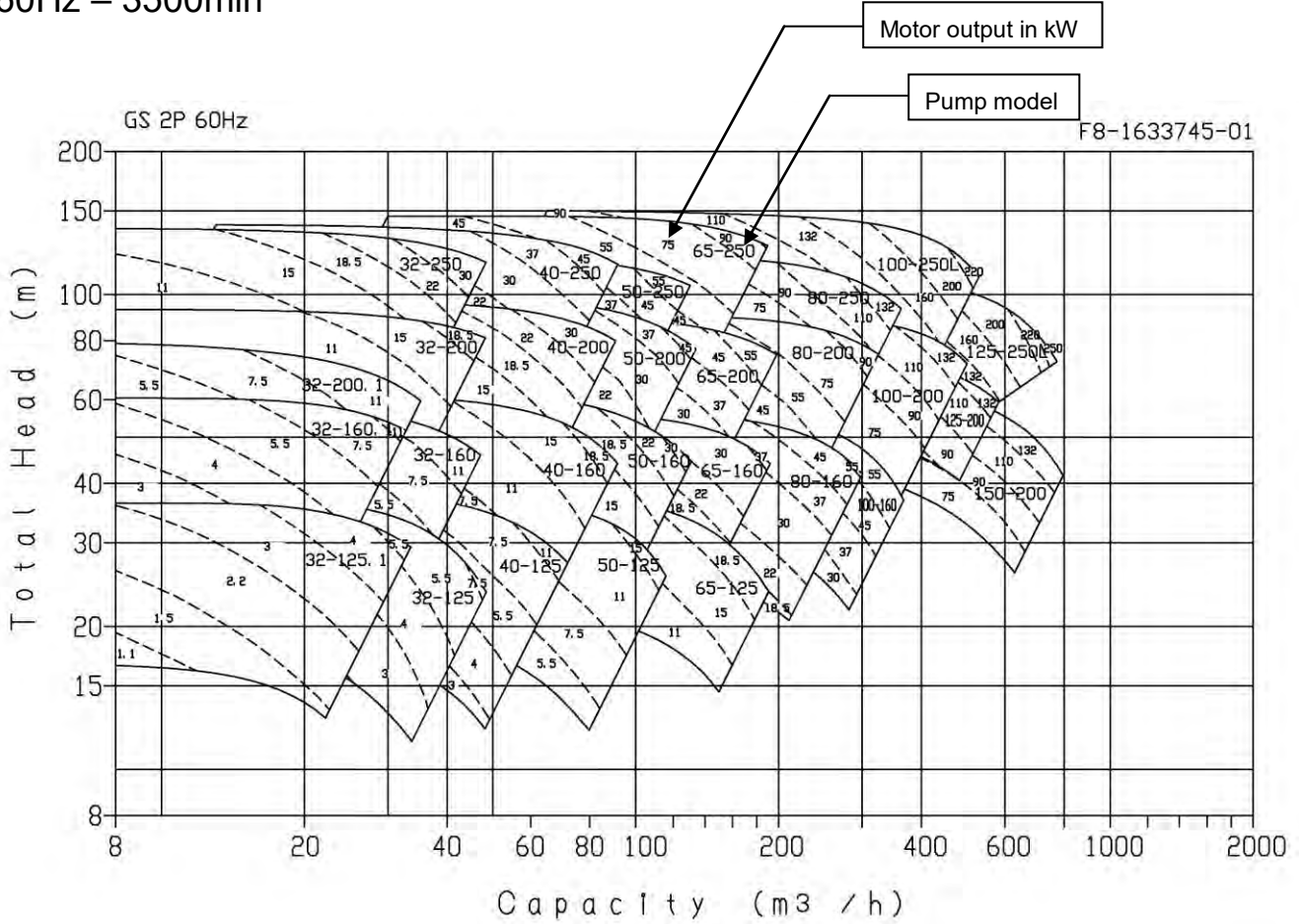
up to 7.5kW : 15%

11kW and above : 10%

Note3 : When selecting a pump , NPSH Av. should have a safety margin of at least 0.5m from NPSH Re.

SELECTION CHART

60Hz – 3500min⁻¹



Note1 : The values inside the broken lines are motor output(kW) in case of density 1.0kg/l and viscosity 1.0mPa · s.

Note2 : The indicated motor output(kW) value includes the following safety margins ;

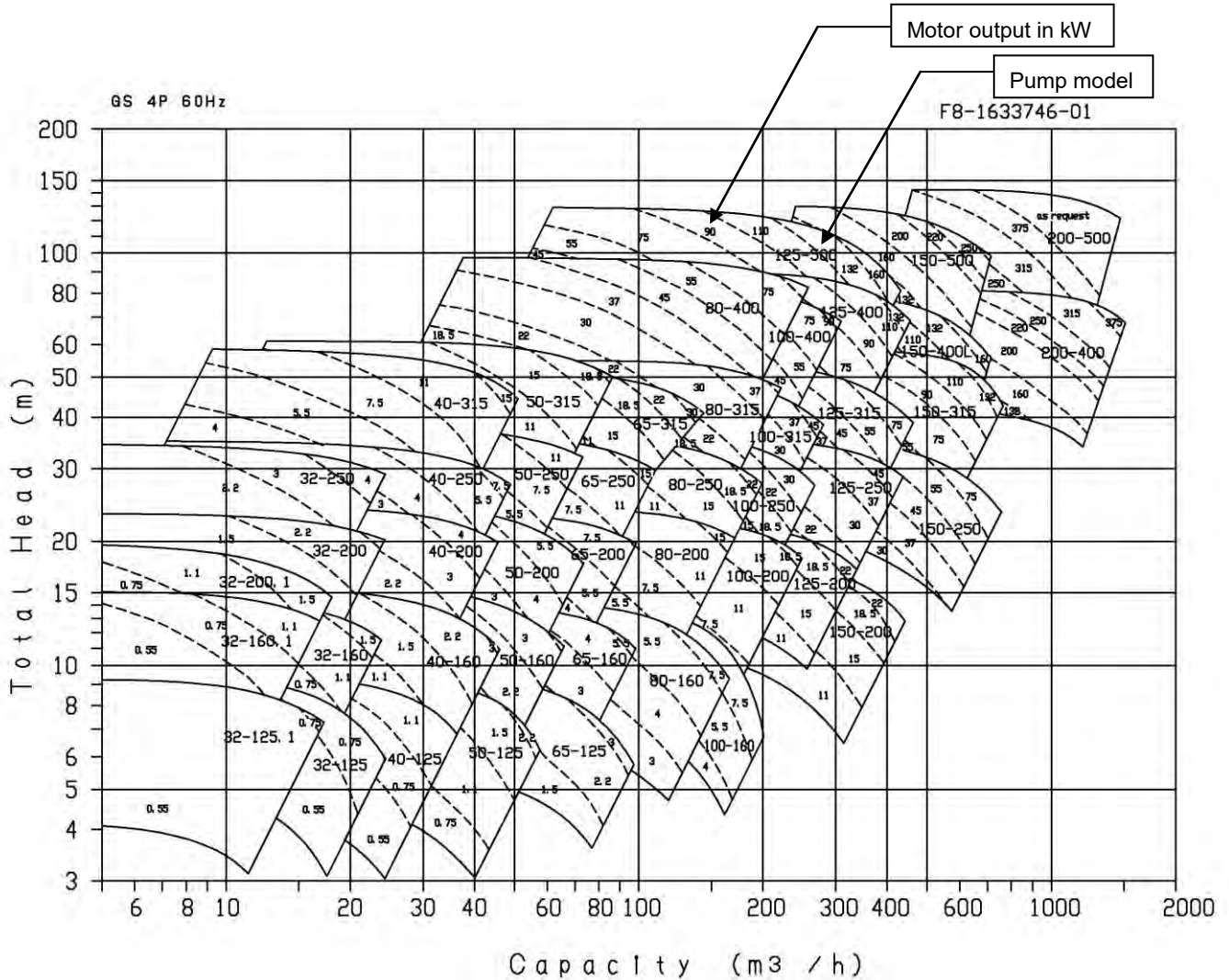
up to 7.5kW : 15%

11kW and above : 10%

Note3 : When selecting a pump , NPSH Av. should have a safety margin of at least 0.5m from NPSH Re.

SELECTION CHART

60Hz – 1750min⁻¹



Note1 : The values inside the broken lines are motor output(kW) in case of density 1.0kg/l and viscosity 1.0mPa · s.

Note2 : The indicated motor output(kW) value includes the following safety margins ;

up to 7.5kW : 15%

11kW and above : 10%

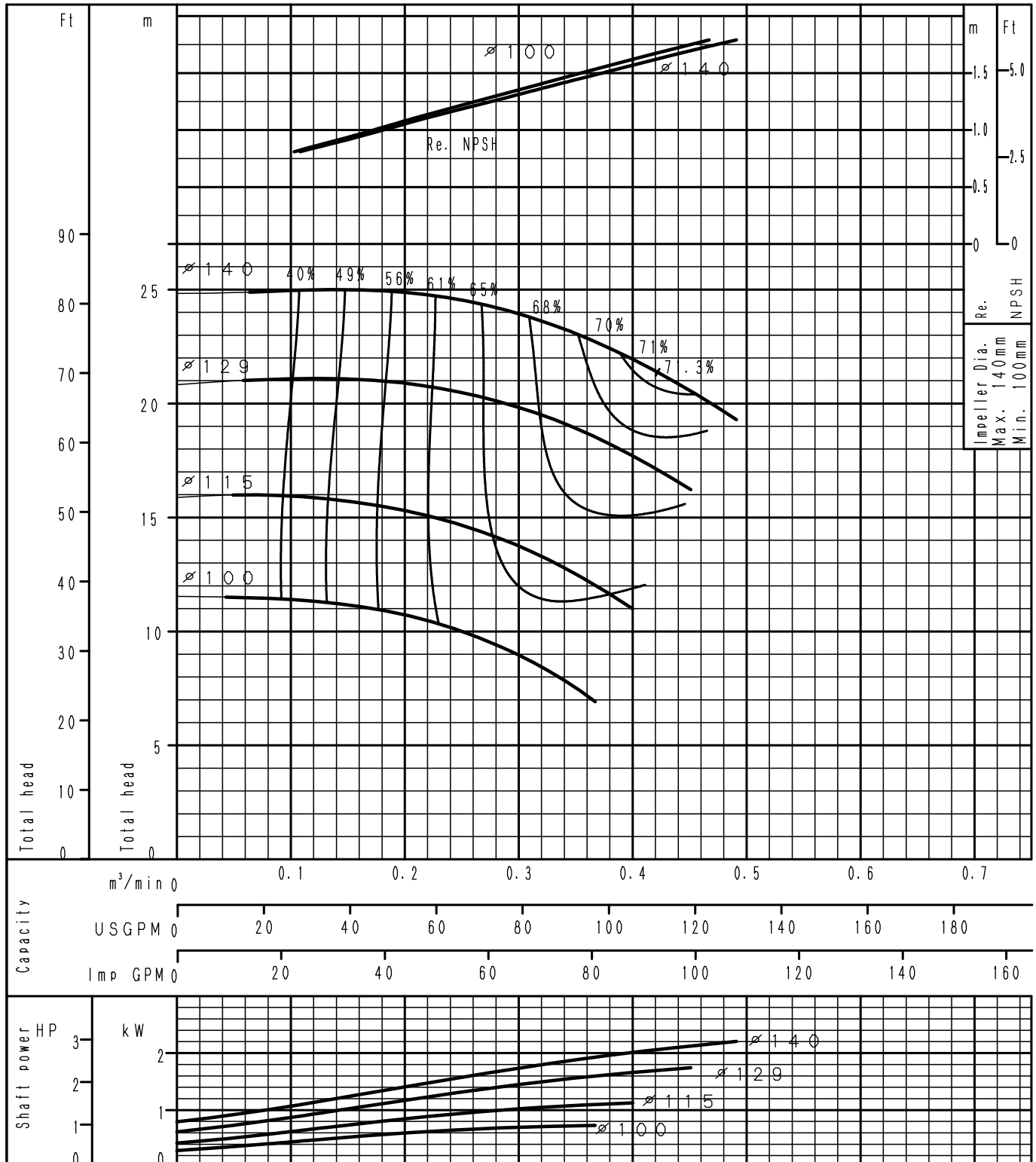
Note3 : When selecting a pump , NPSH Av. should have a safety margin of at least 0.5m from NPSH Re.

SELECTION CHART

Performance Curve

2 Poles

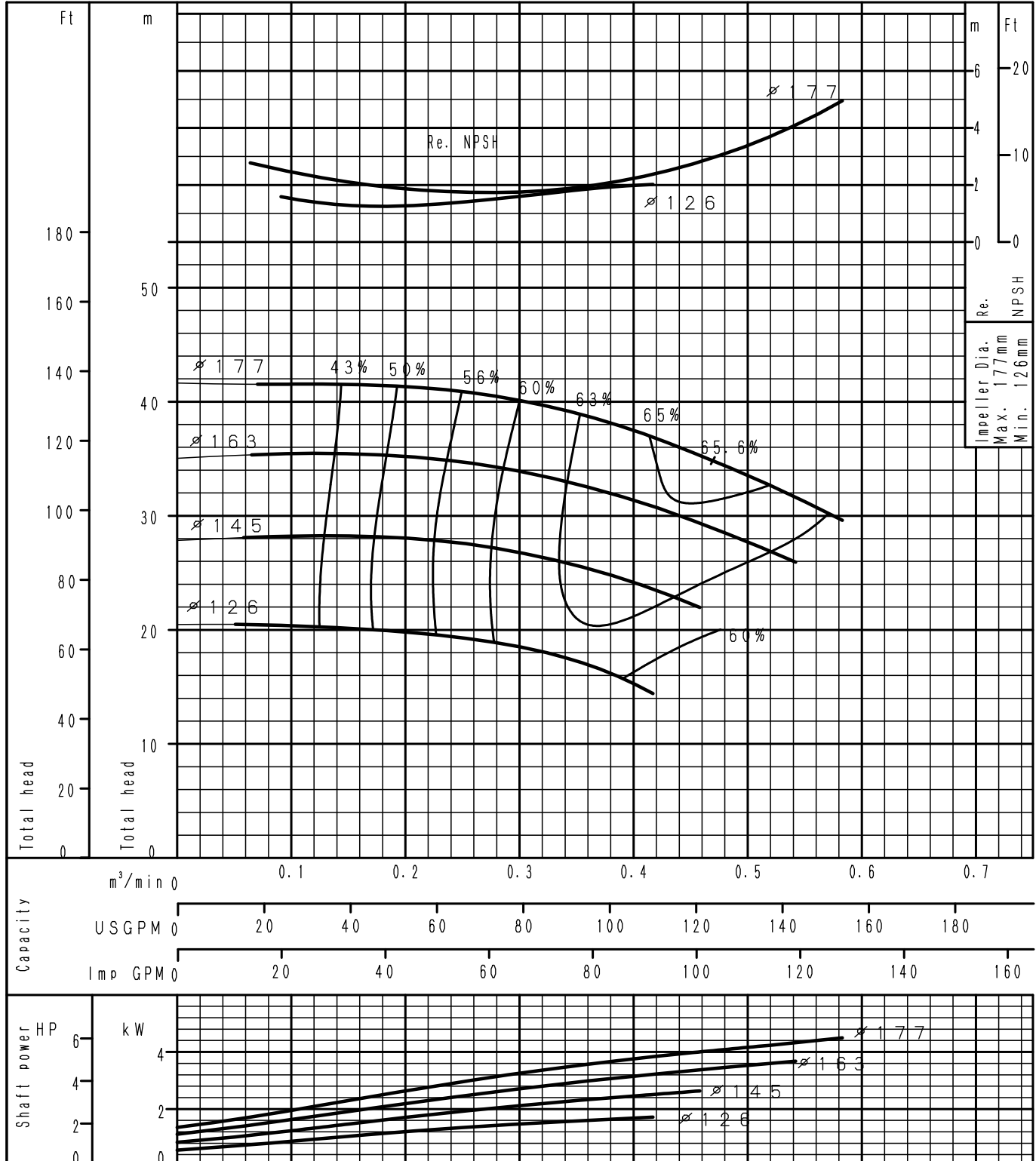
GS32-125.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

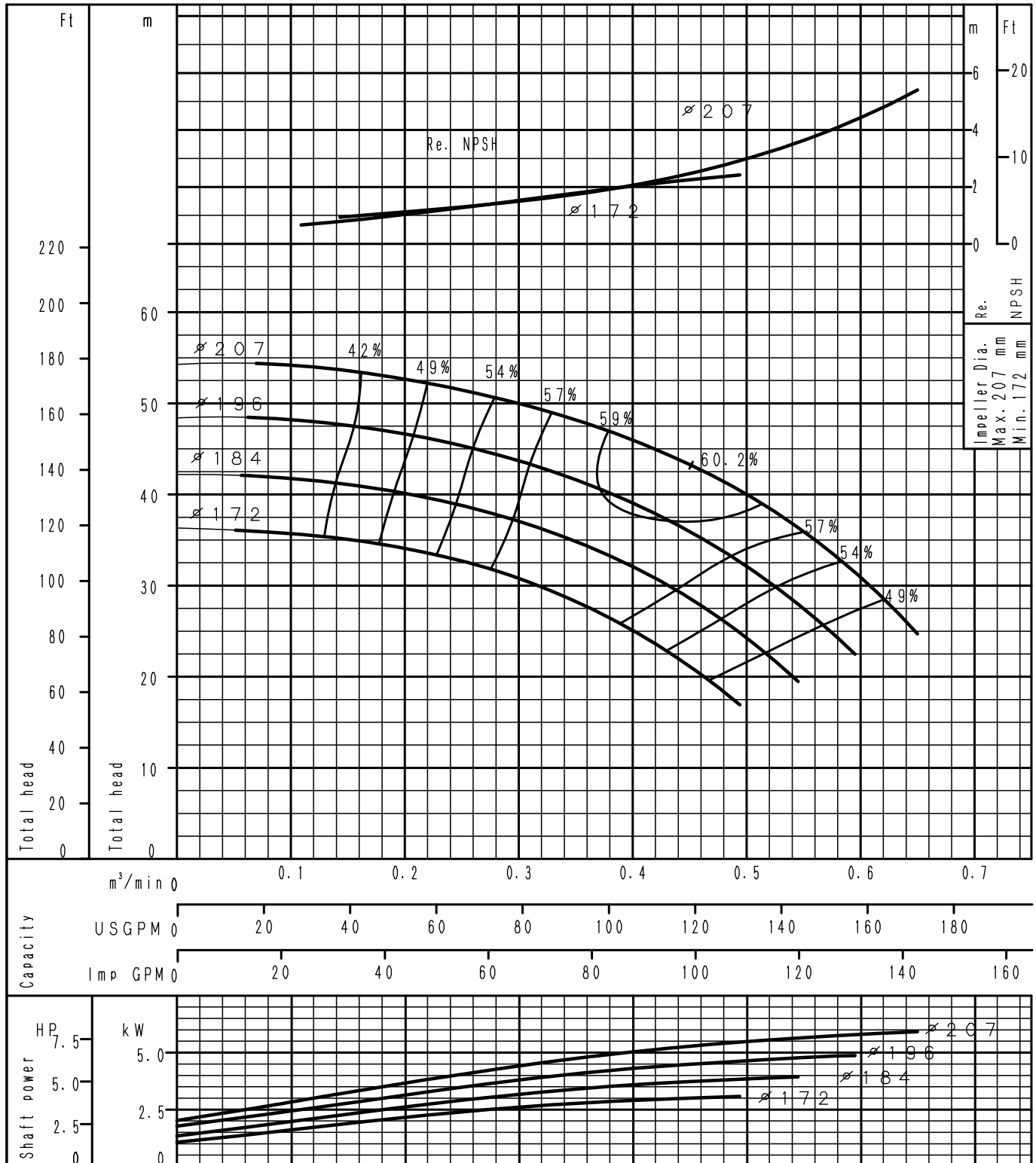
GS32-160.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

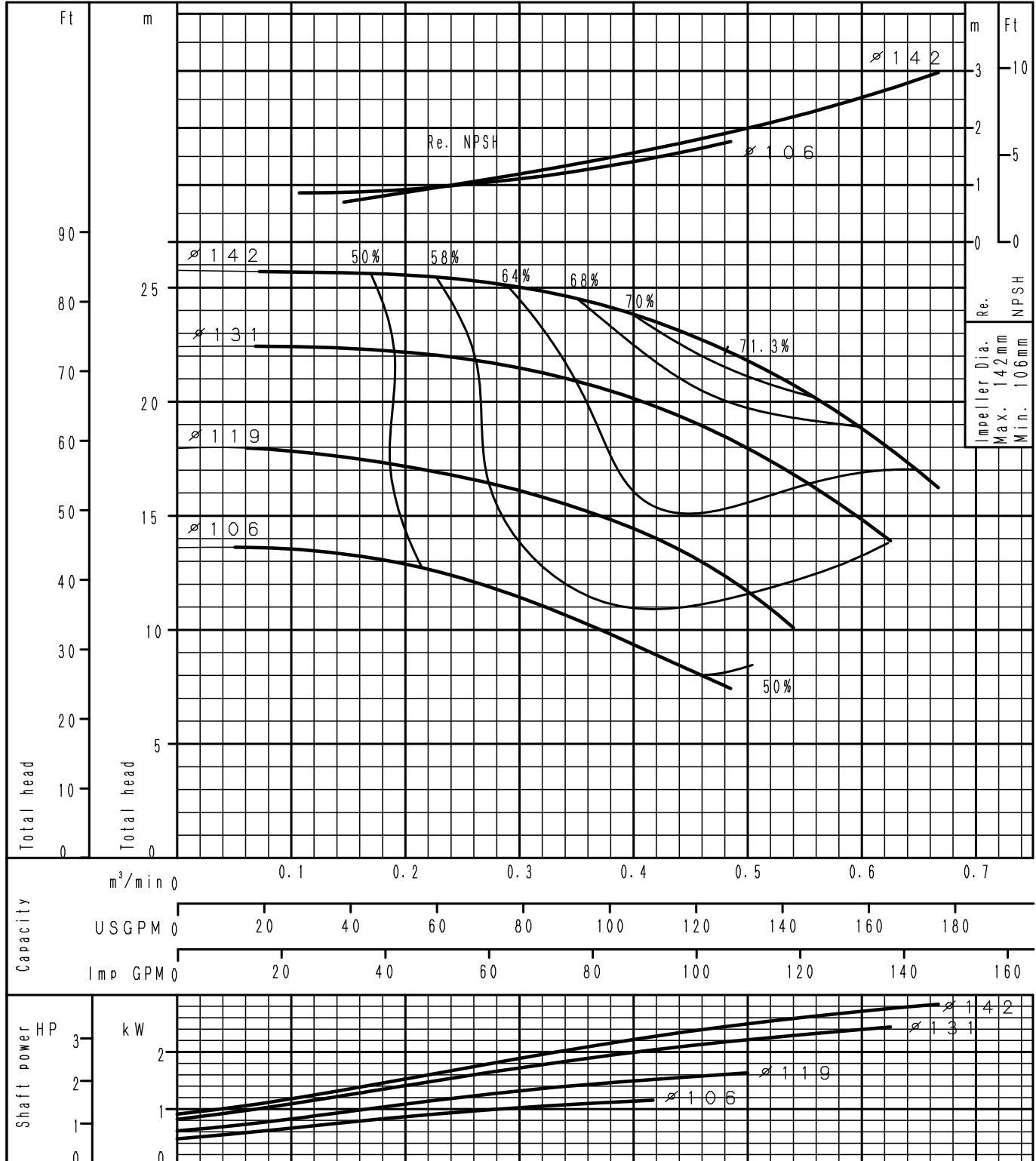
GS32-200.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

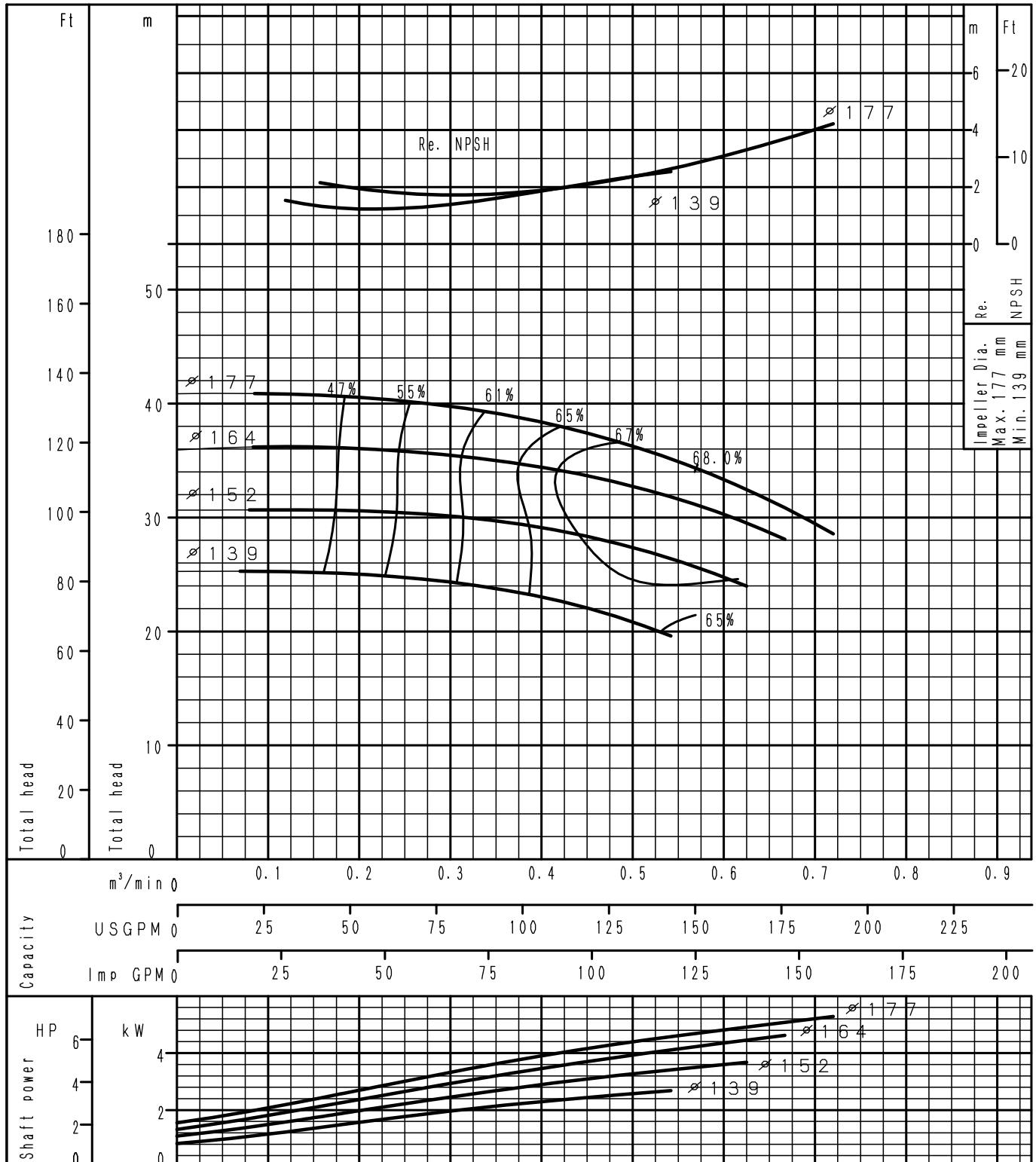
GS32-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

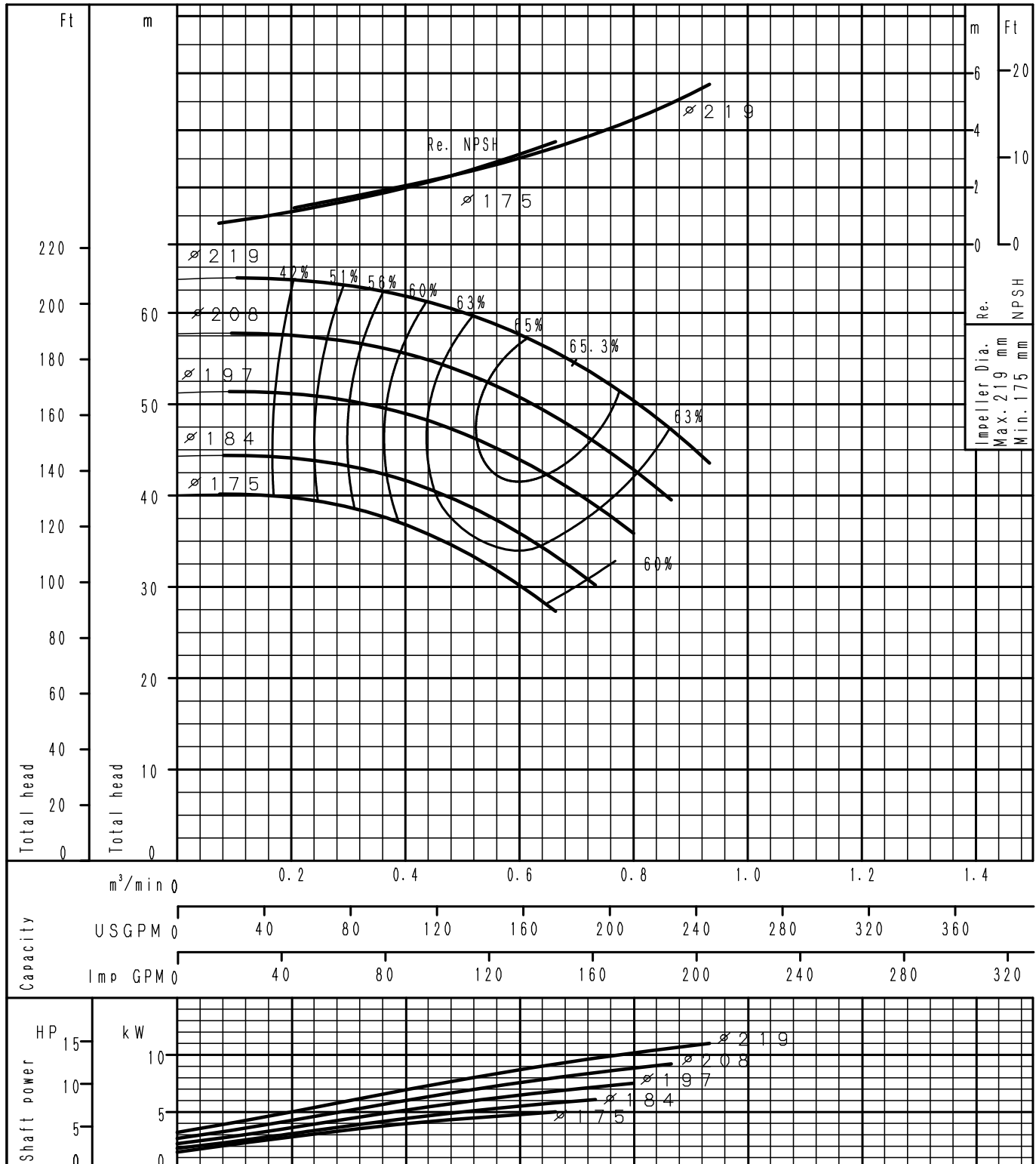
GS32-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

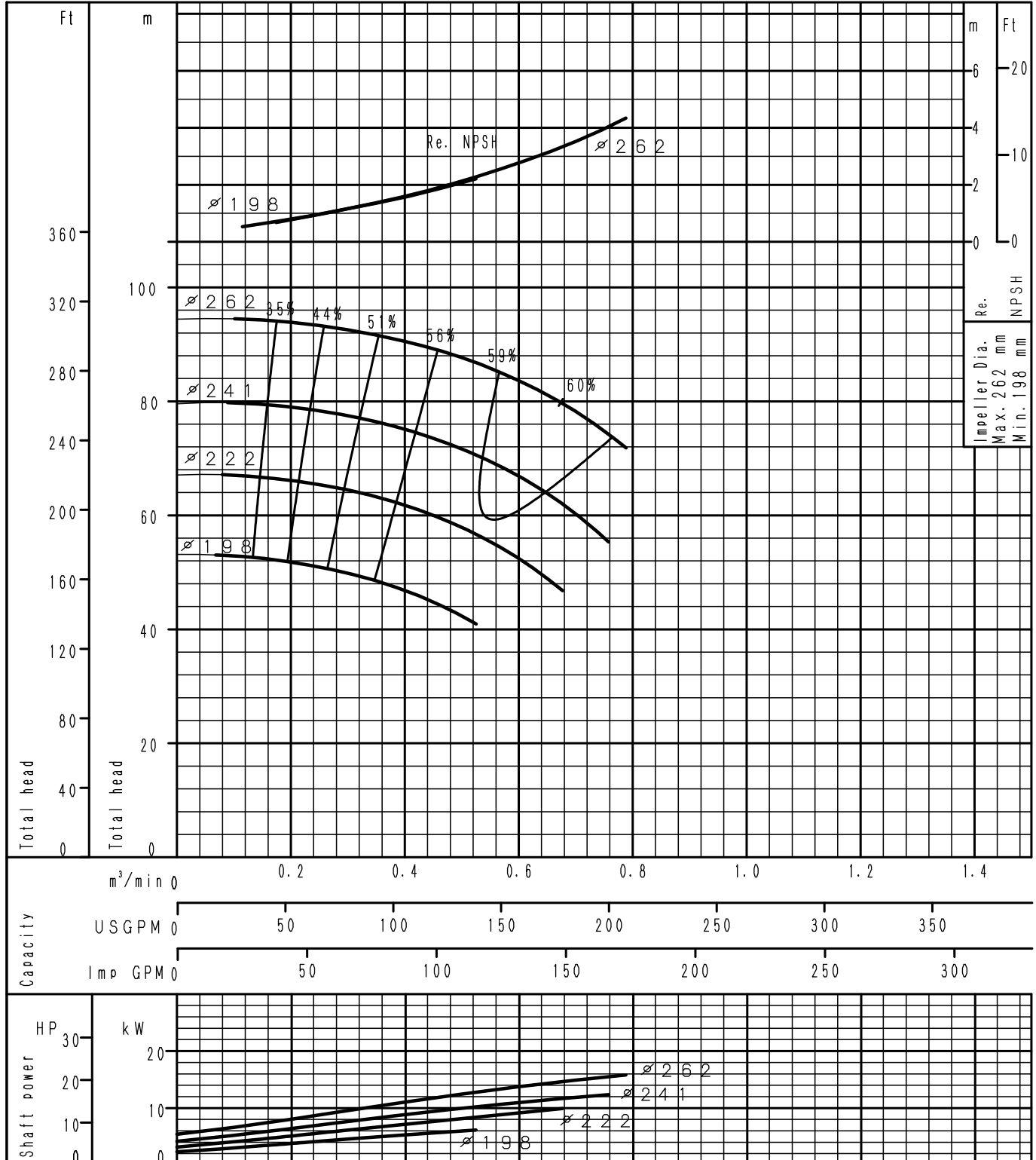
GS32-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

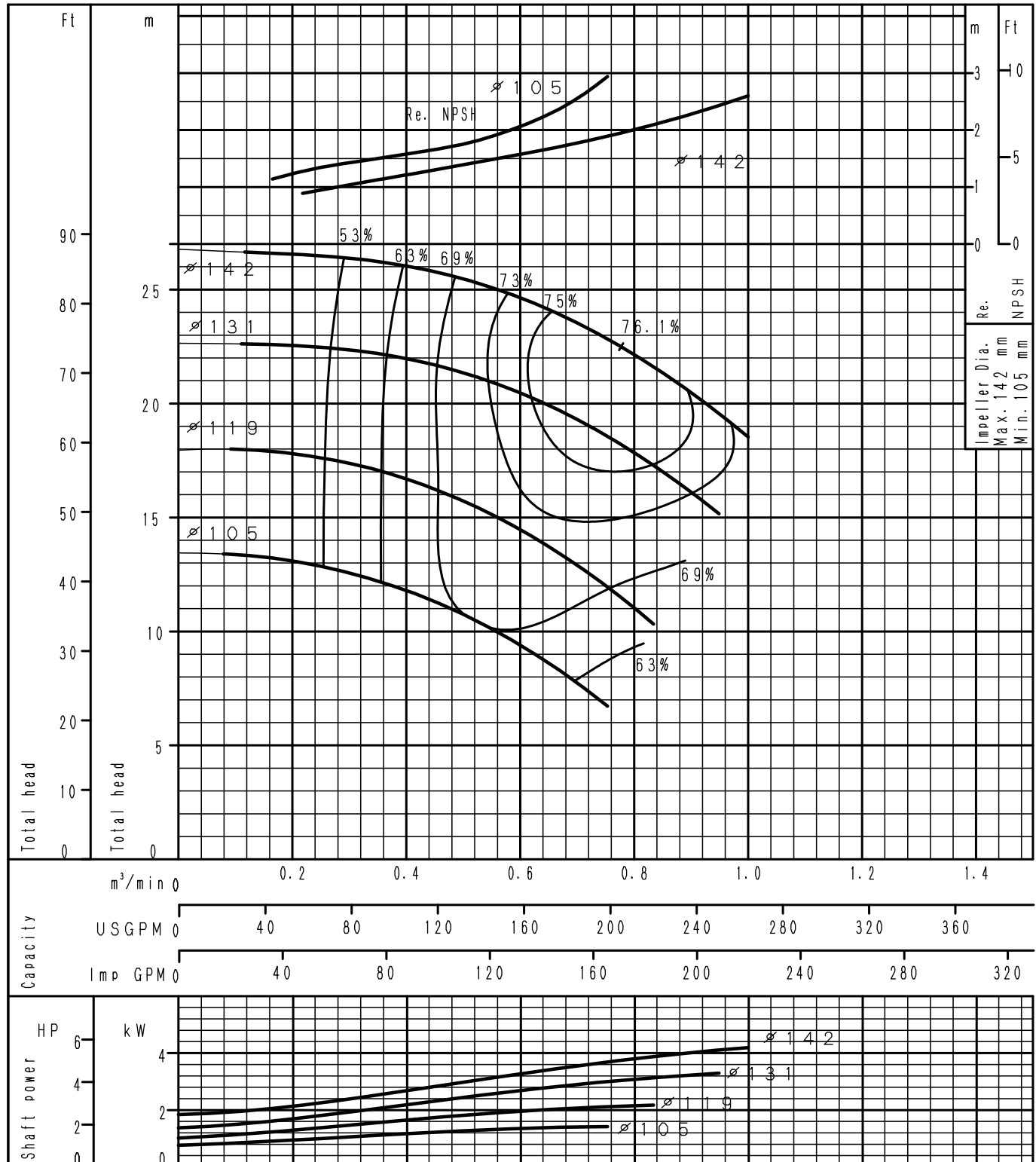
GS32-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

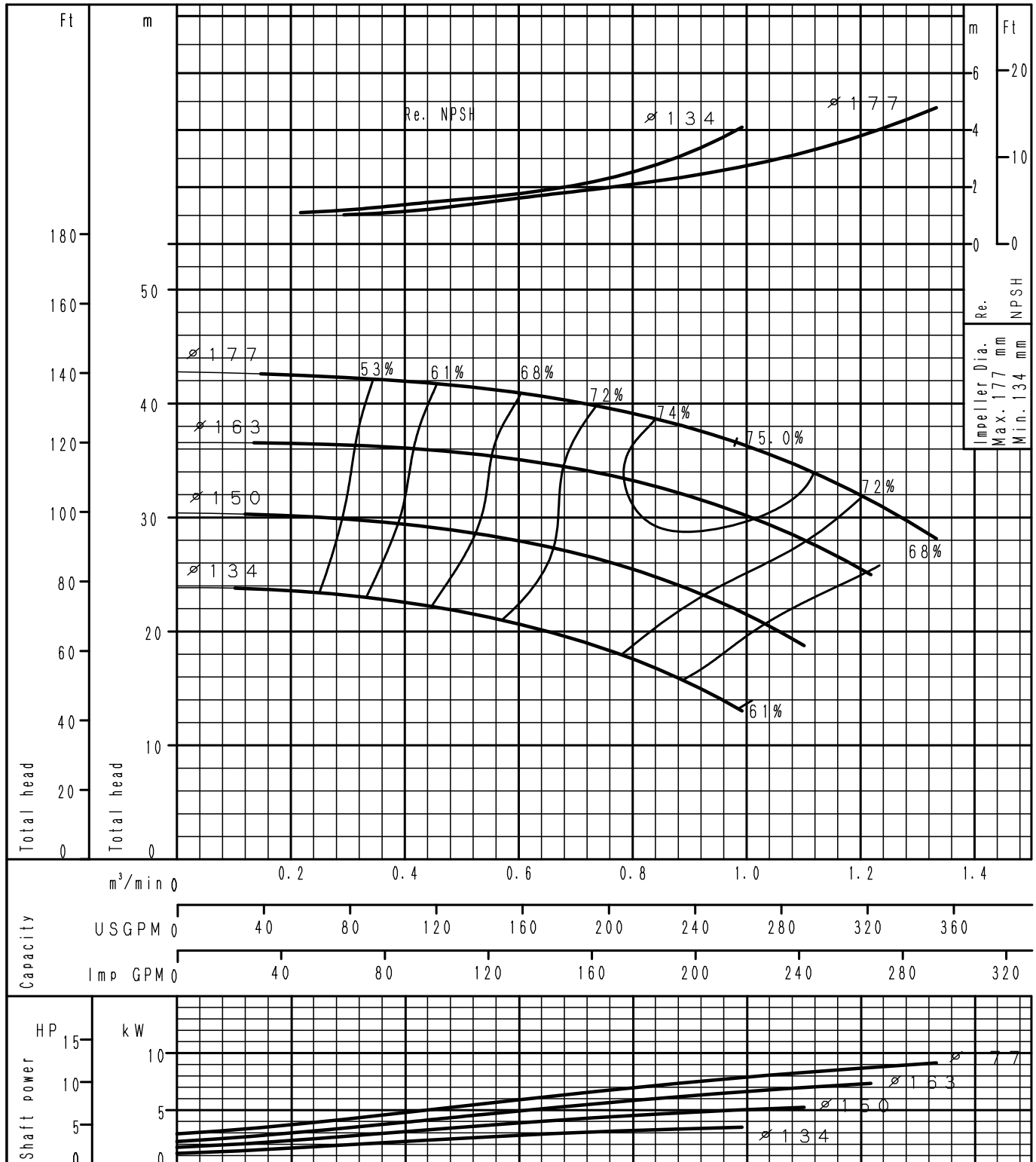
GS40-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

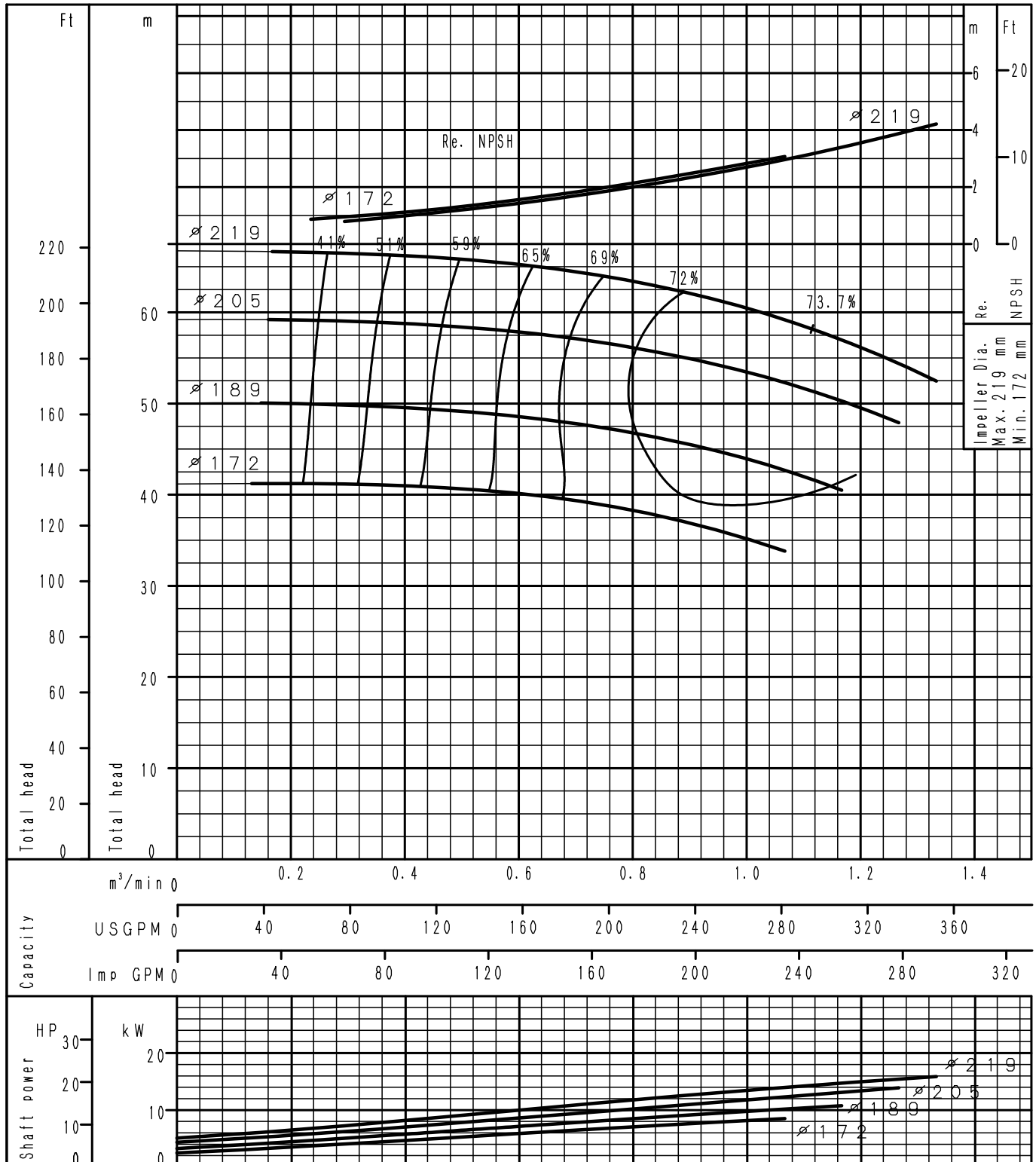
GS40-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

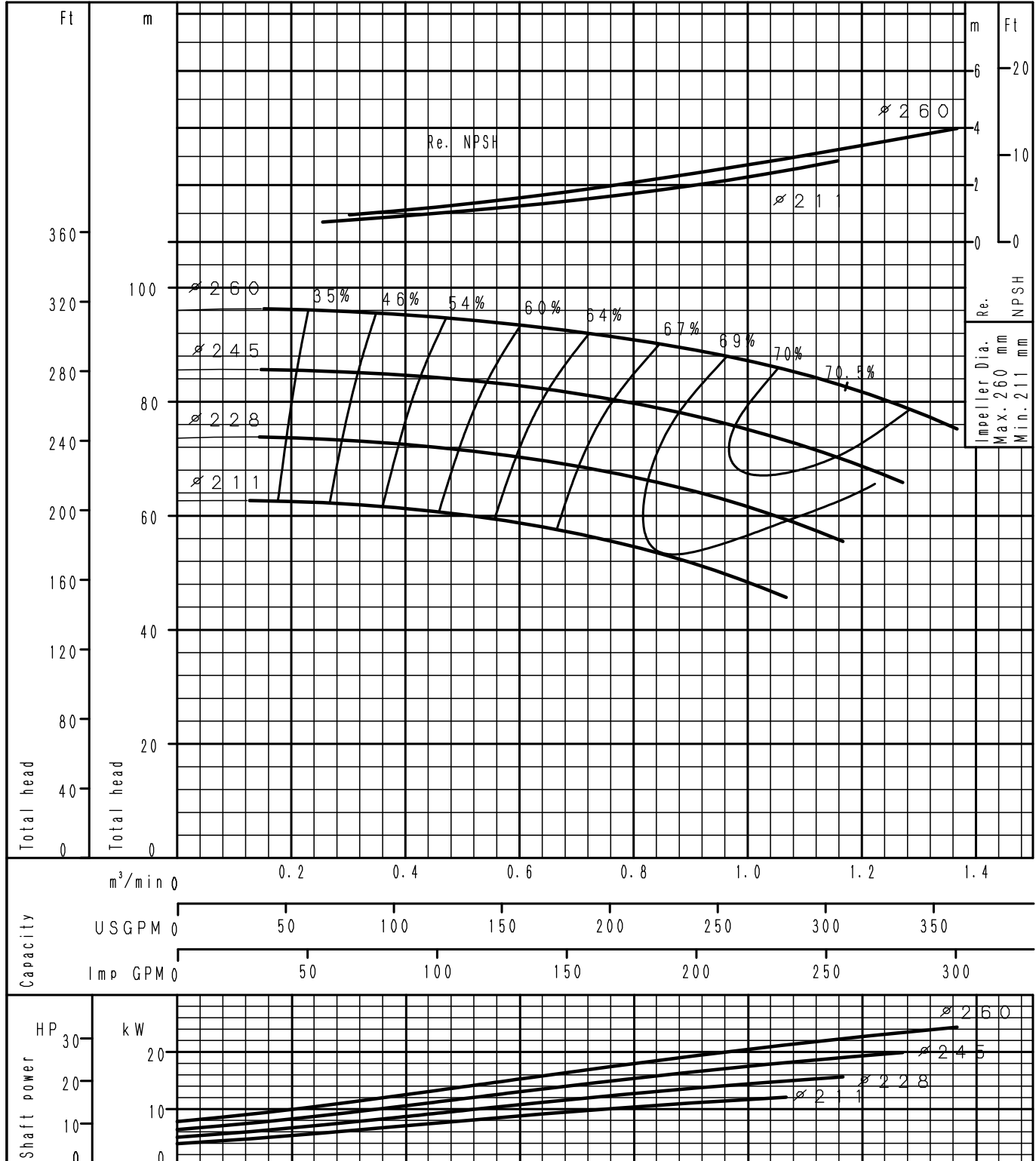
<h1 style="margin: 0;">GS40-200</h1>	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

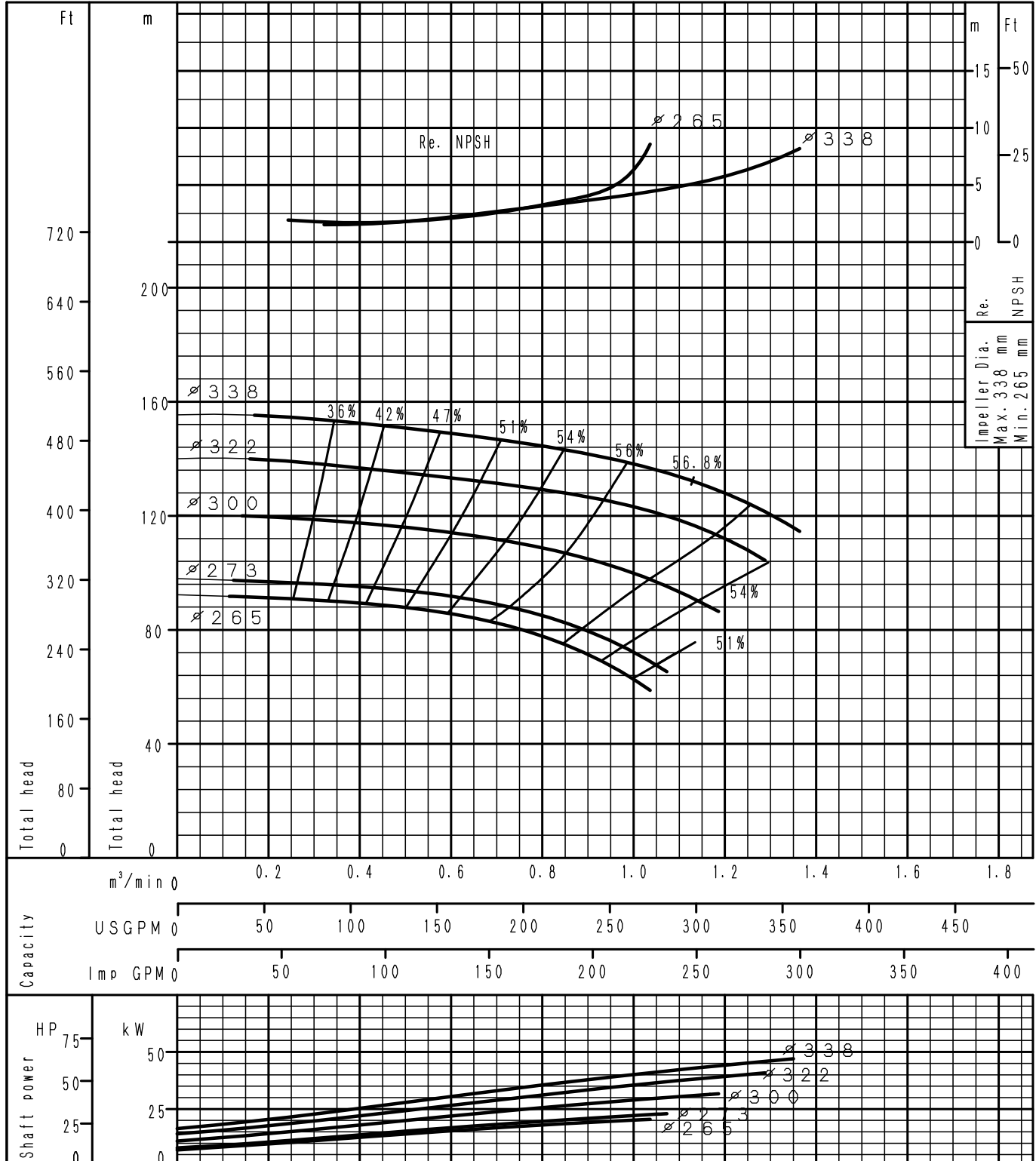
GS40-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

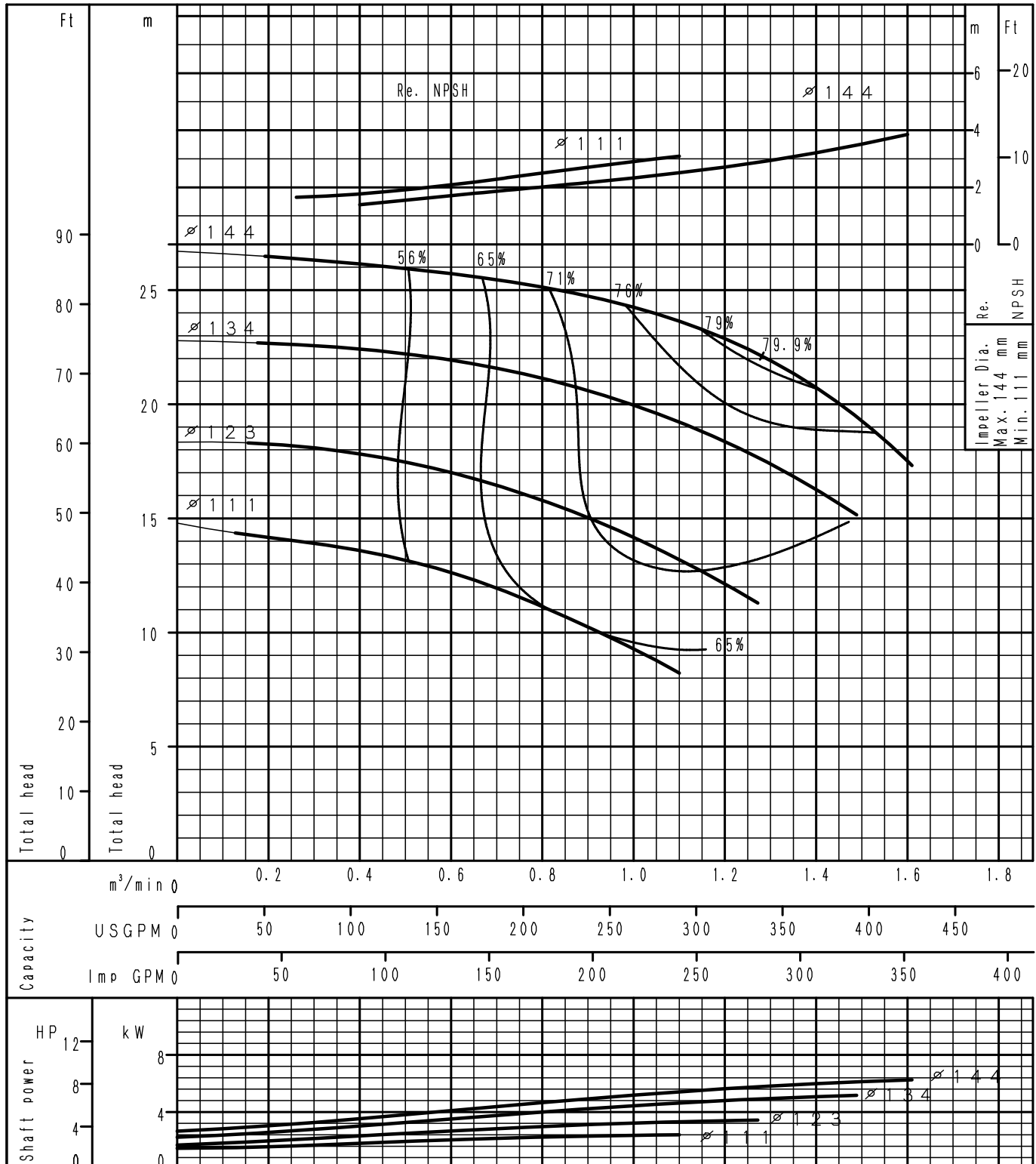
<h1 style="margin: 0;">GS40-315</h1>	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

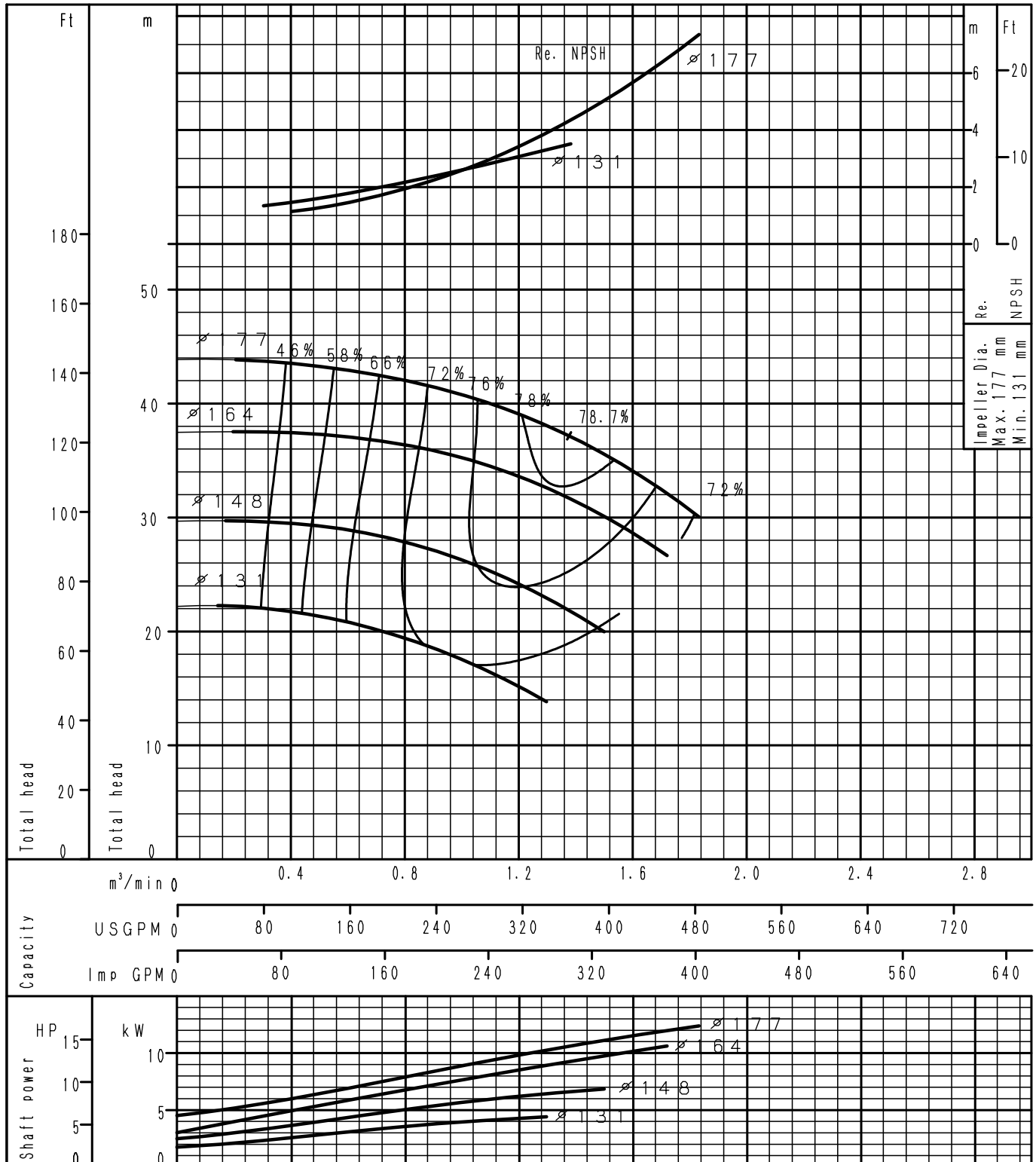
GS50-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

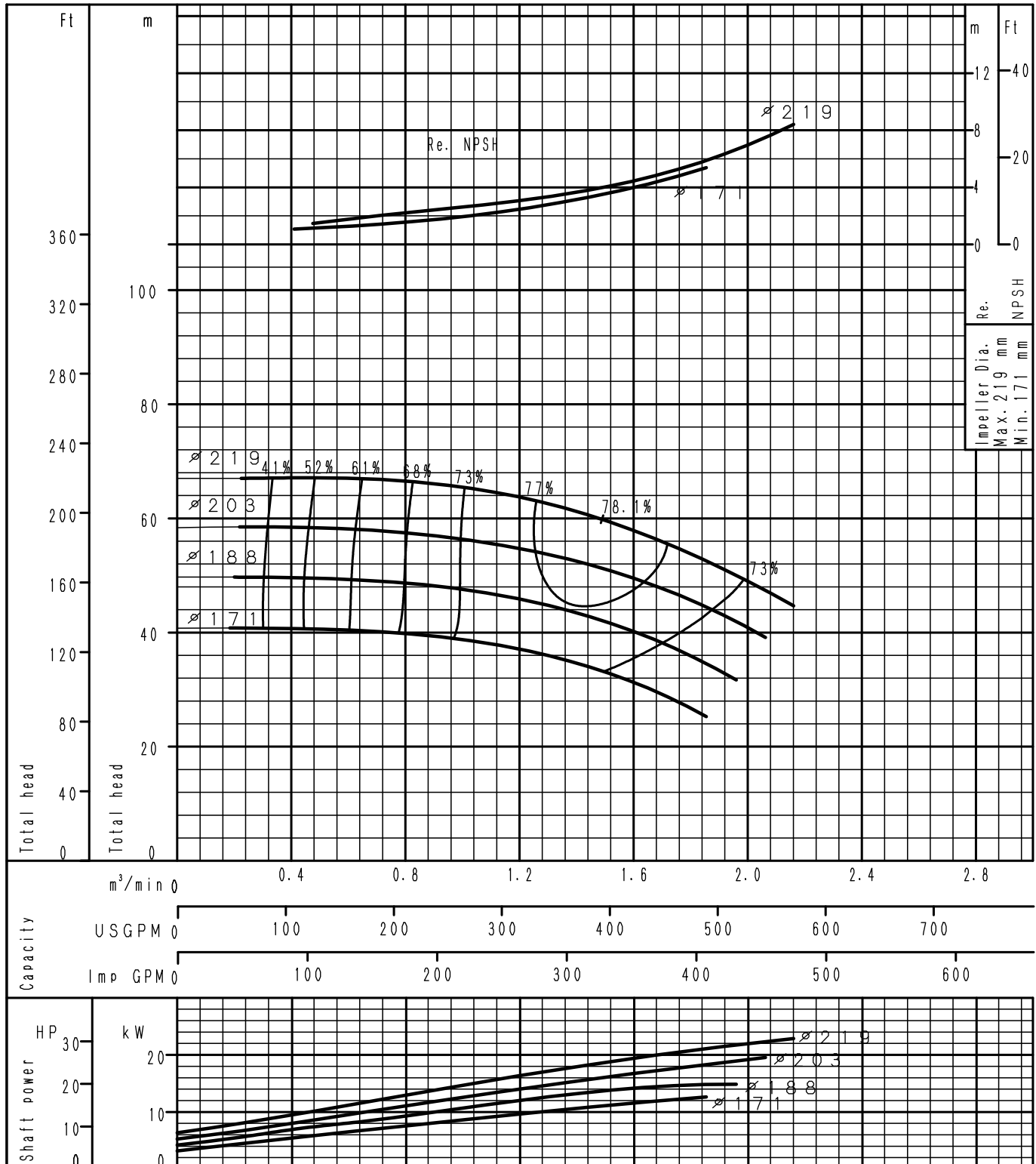
GS50-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

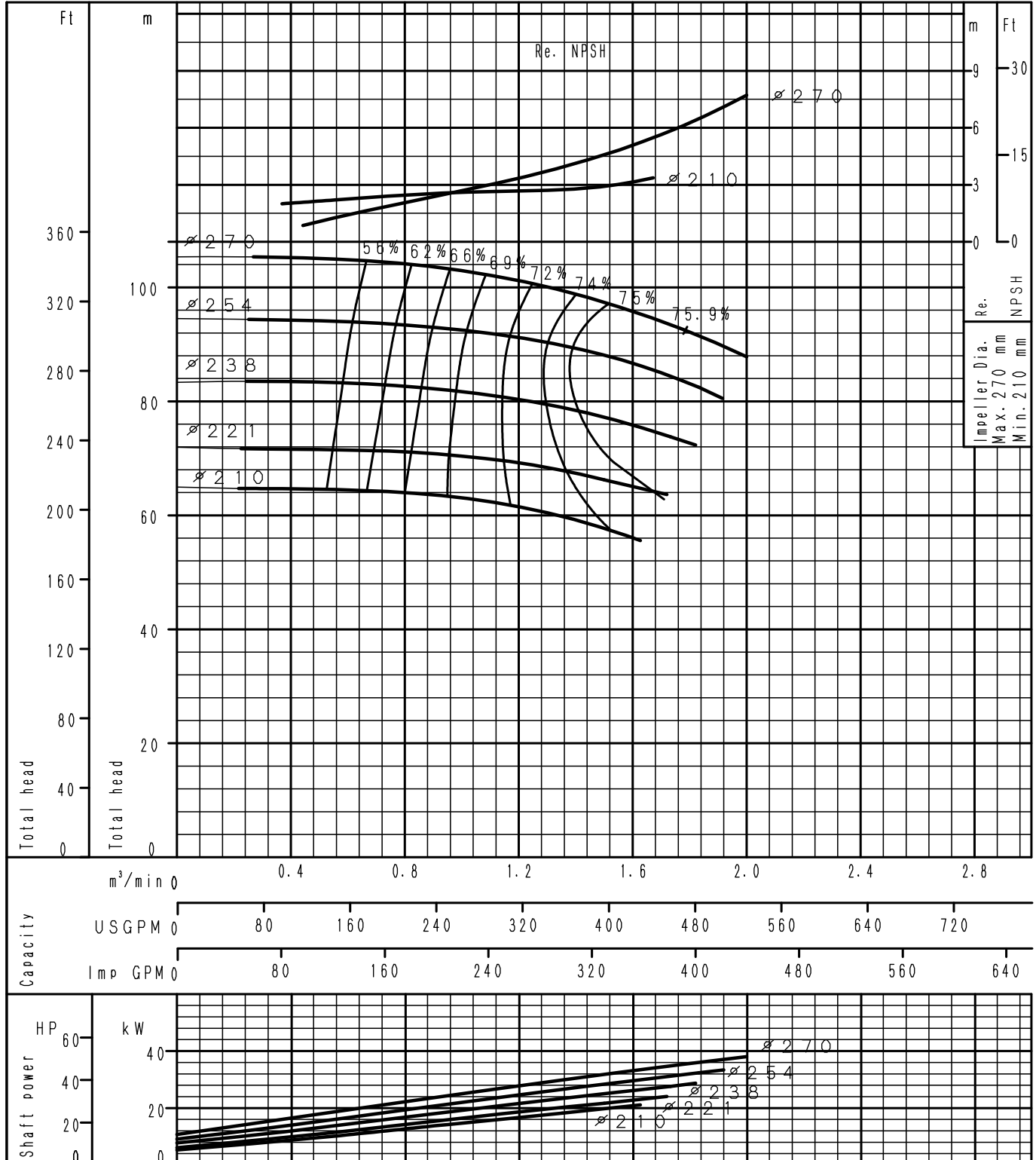
GS50-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

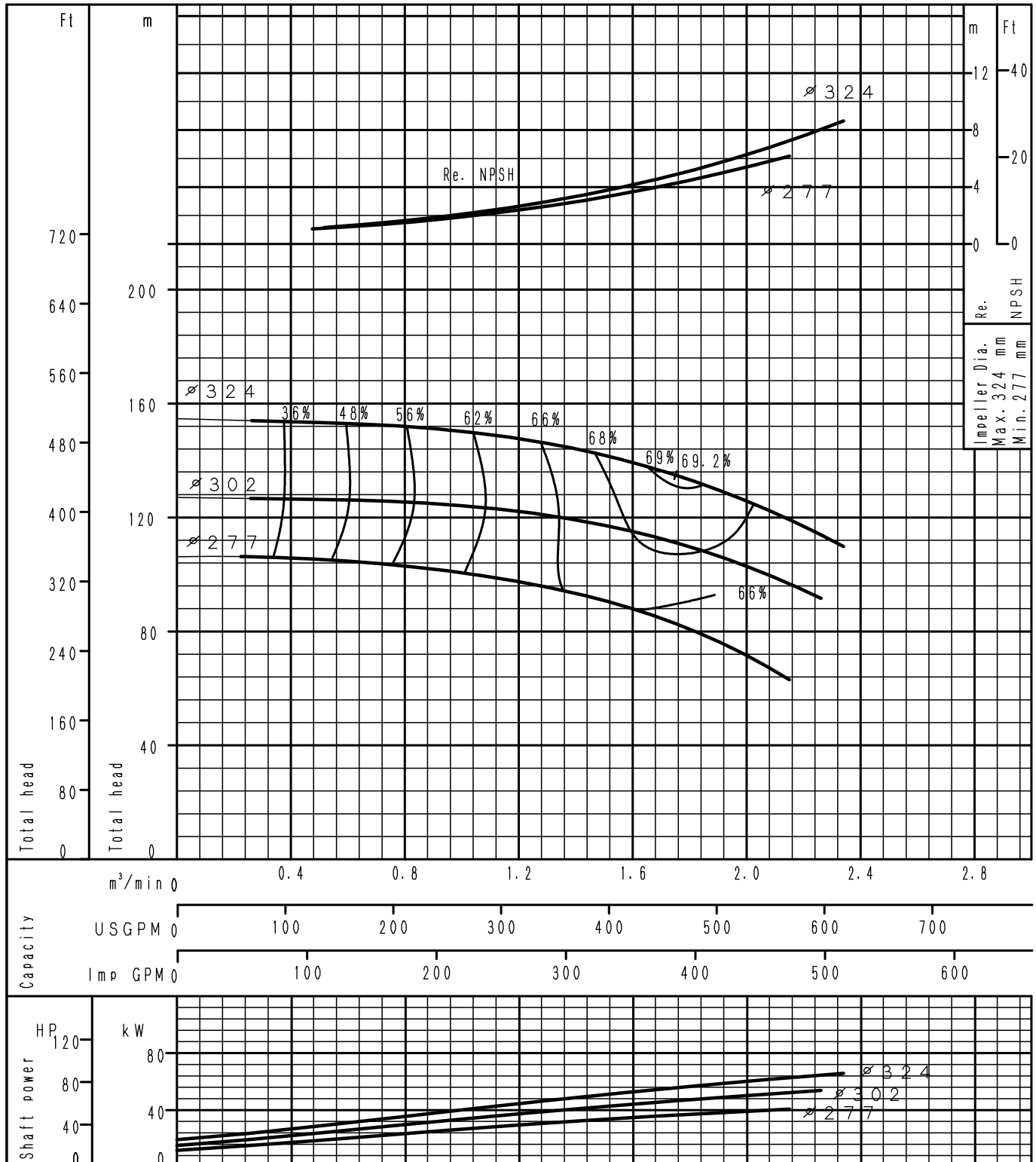
GS50-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

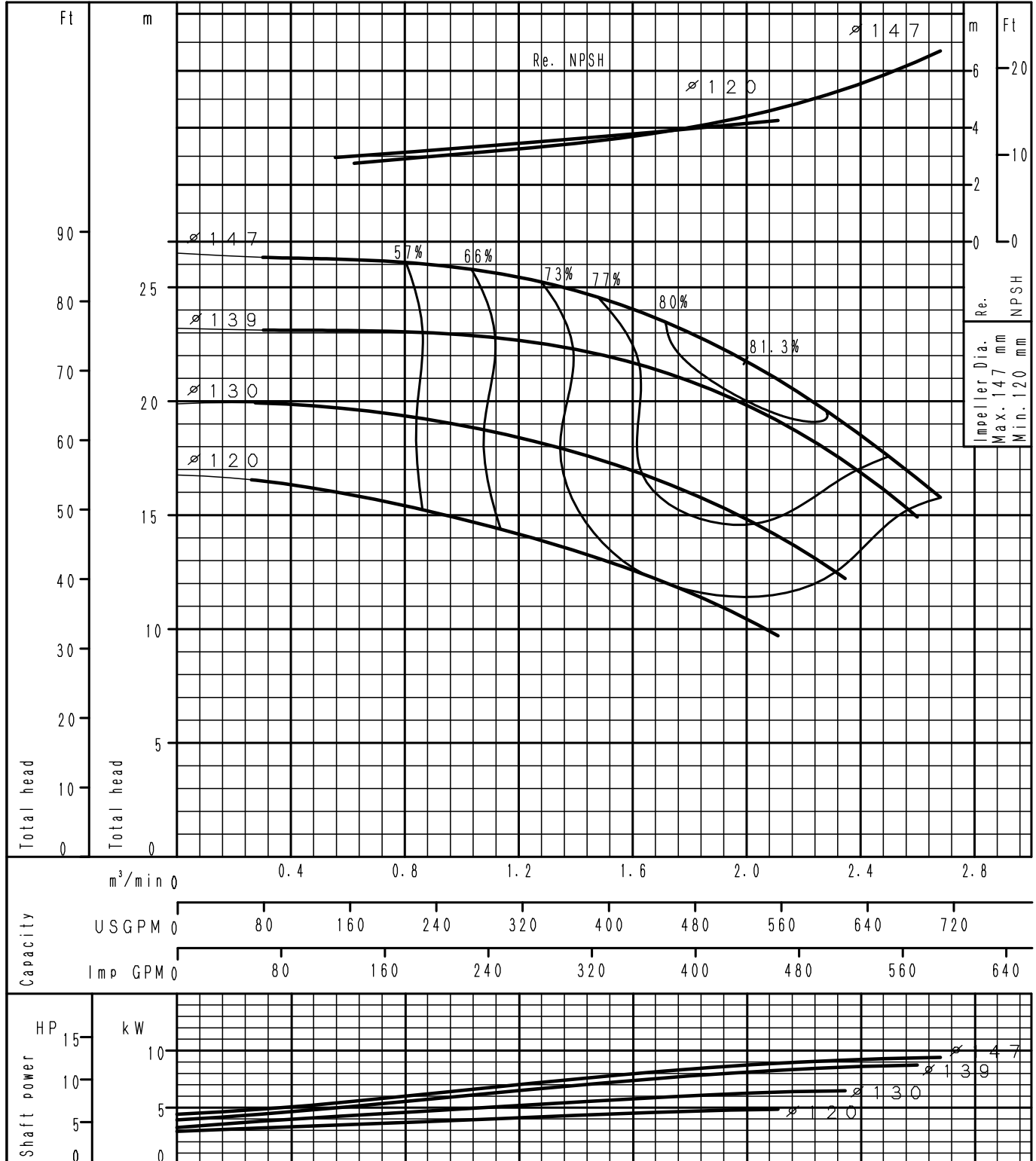
GS50-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

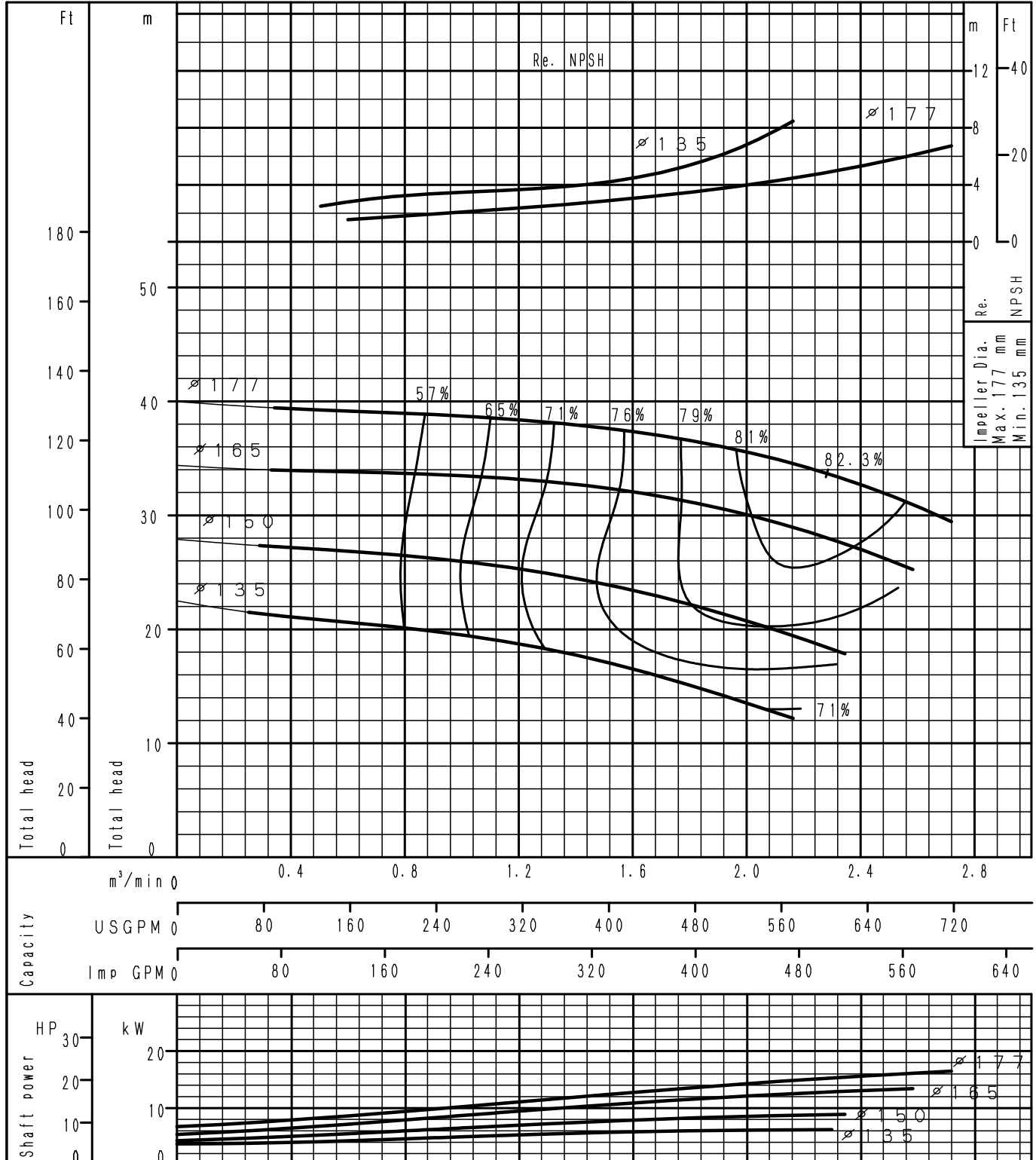
GS65-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

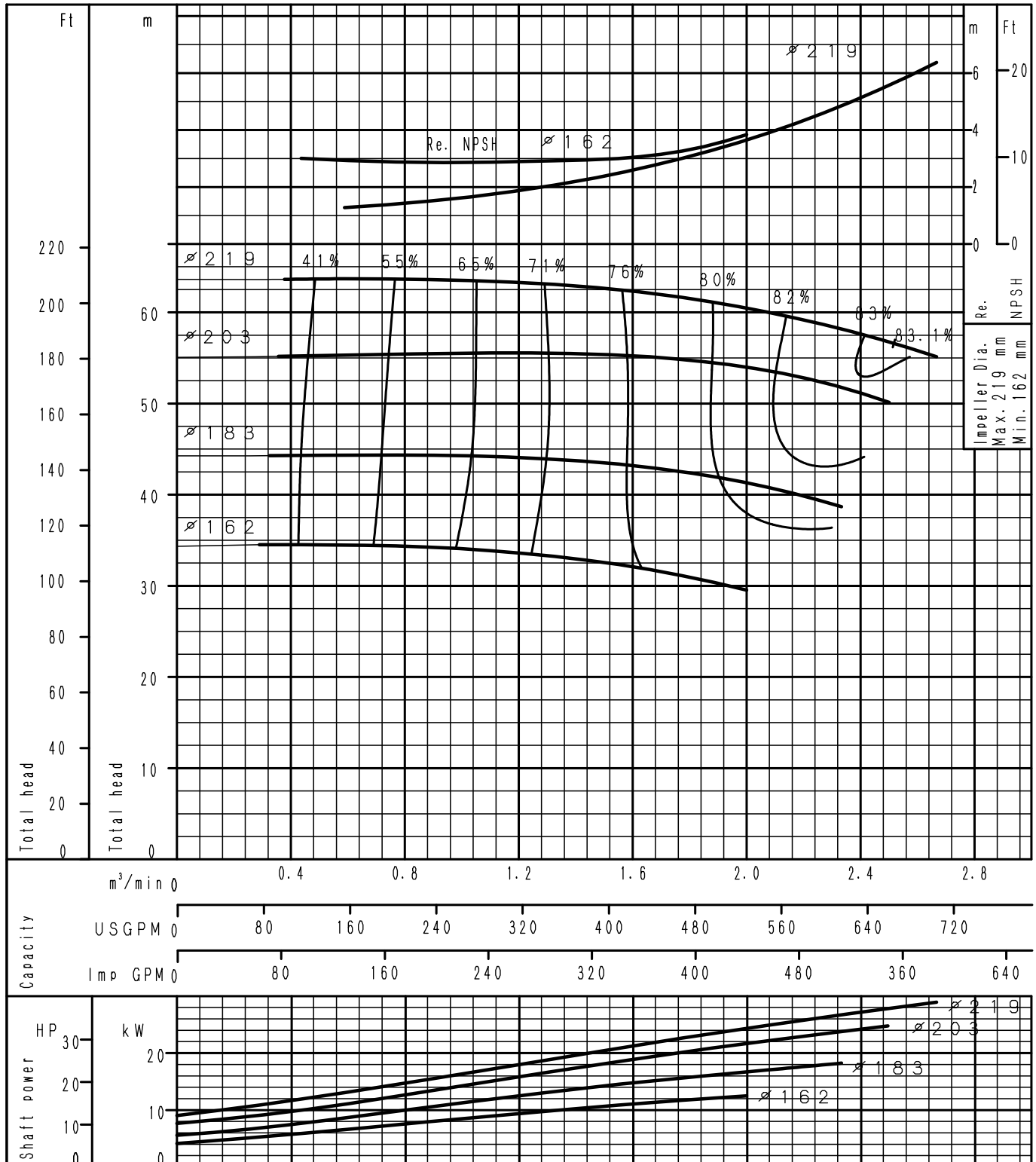
GS65-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

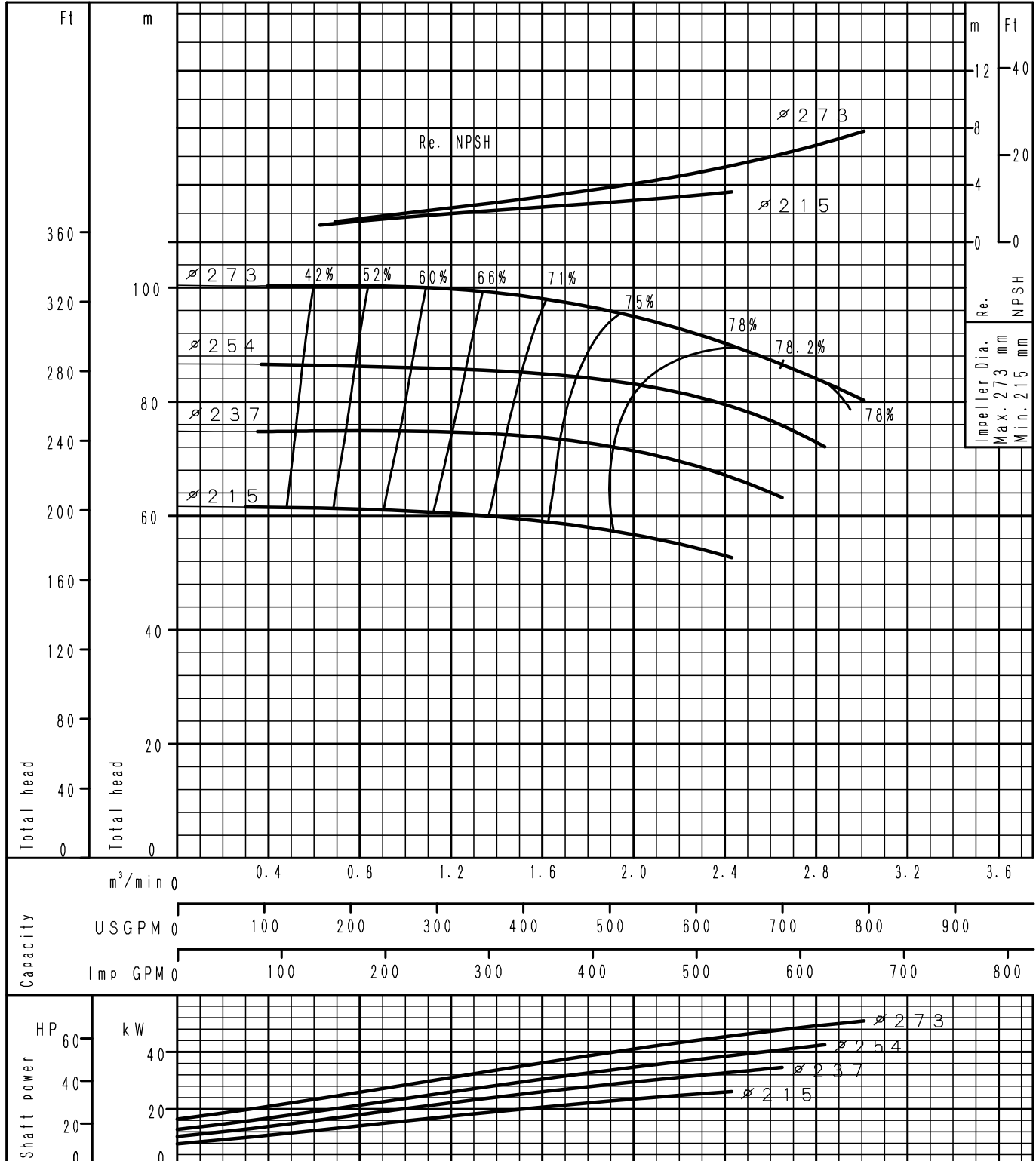
GS65-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

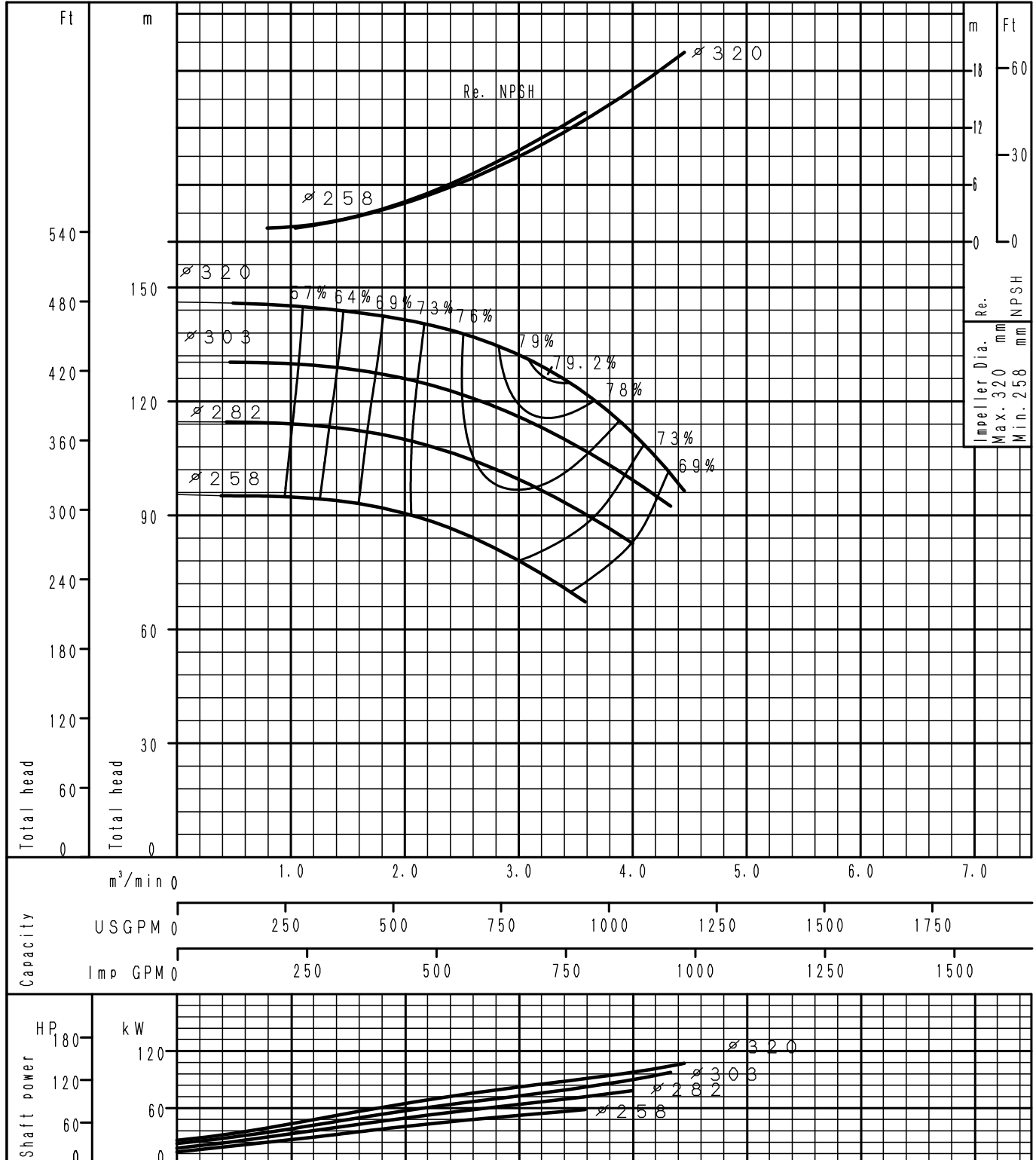
GS65-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

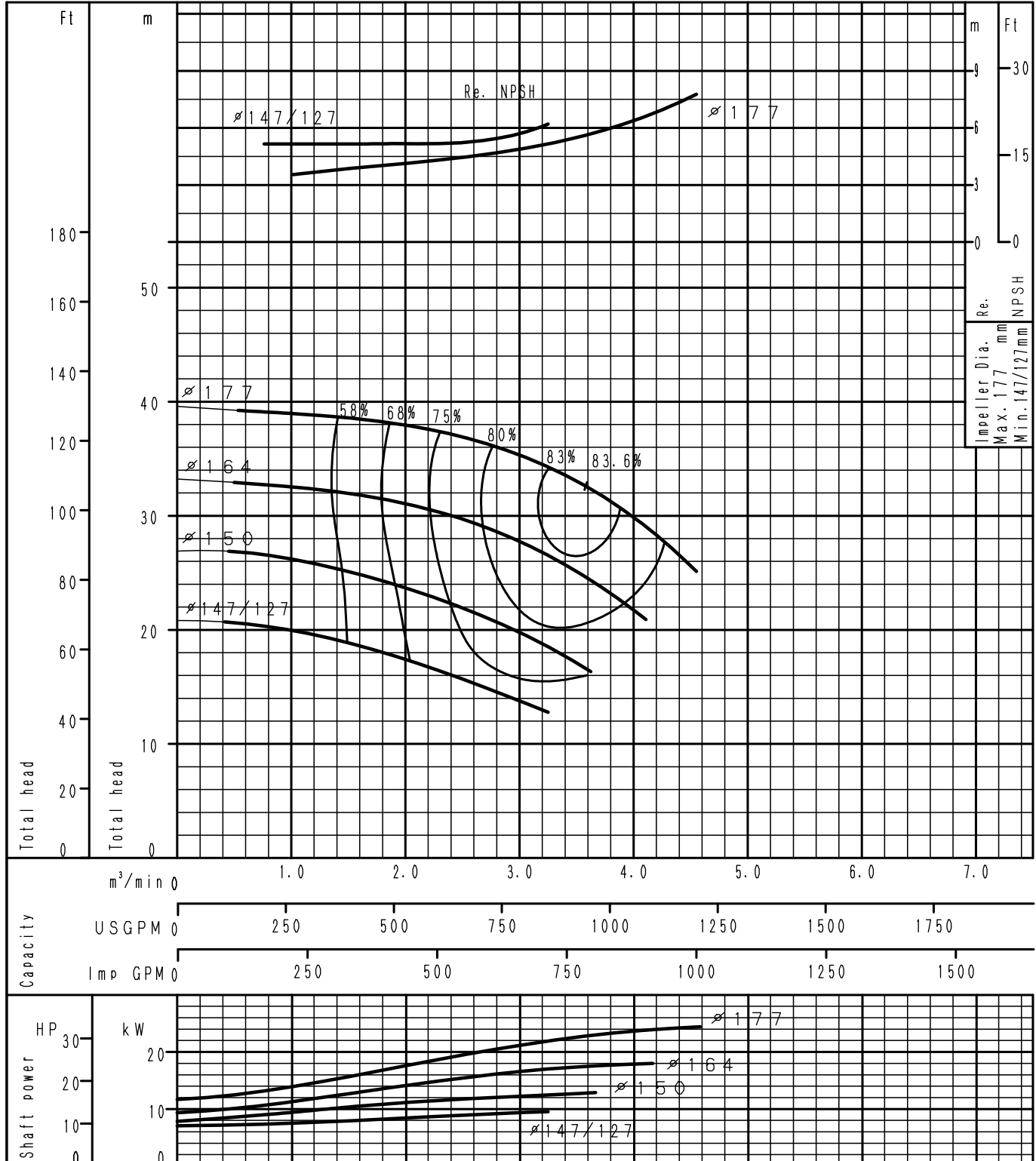
<h1 style="margin: 0;">GS65-315</h1>	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

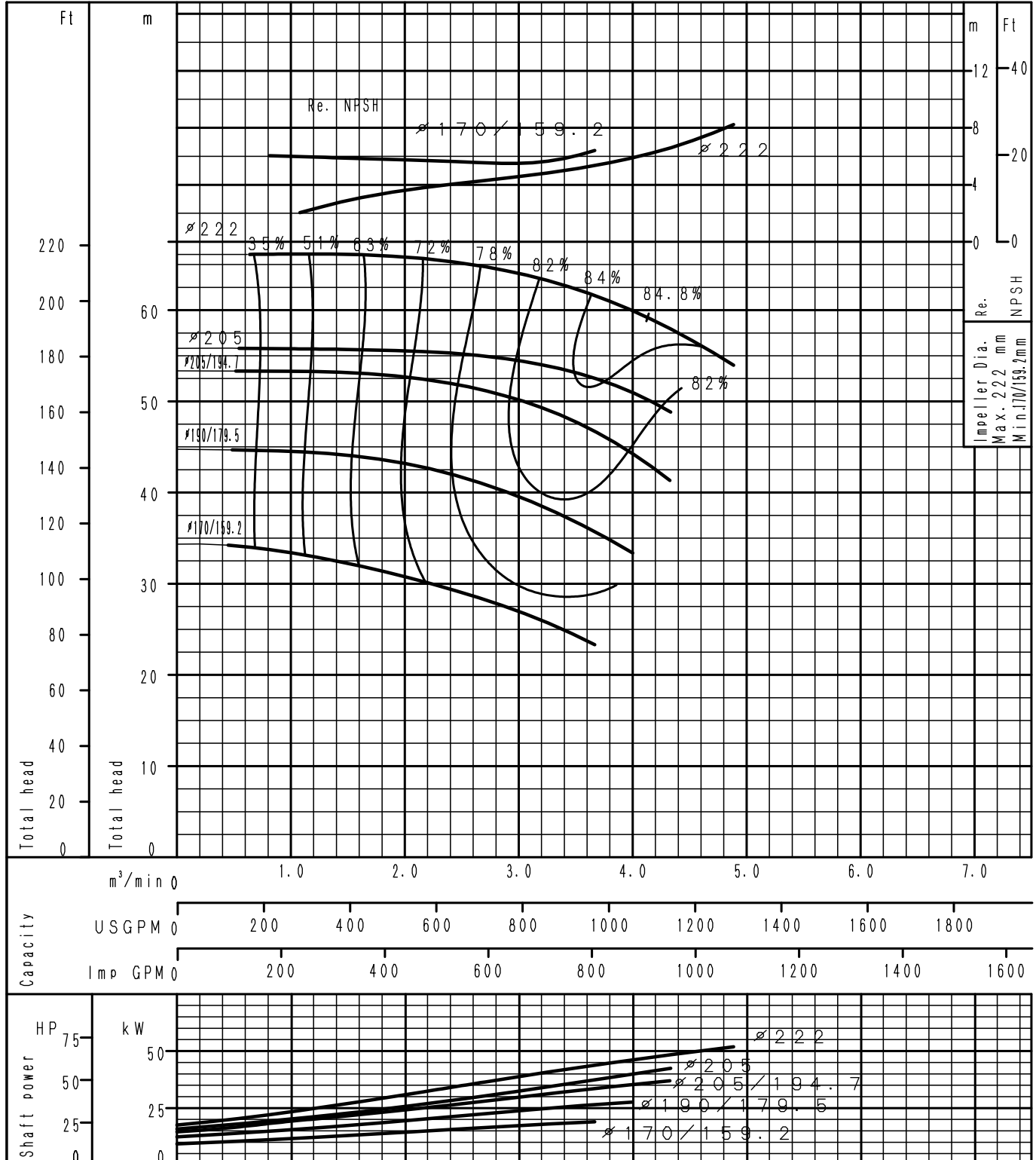
GS80-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

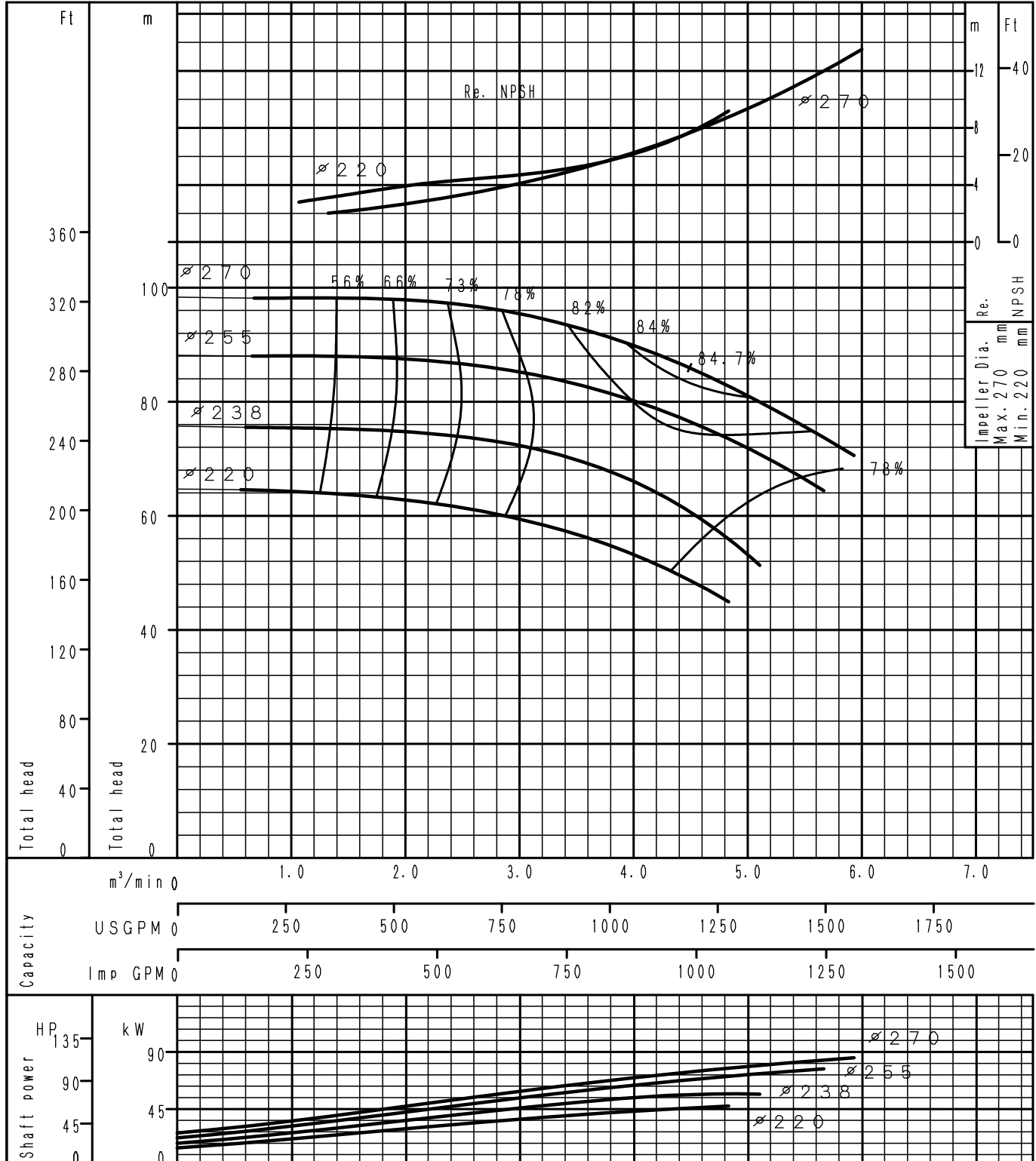
GS80-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

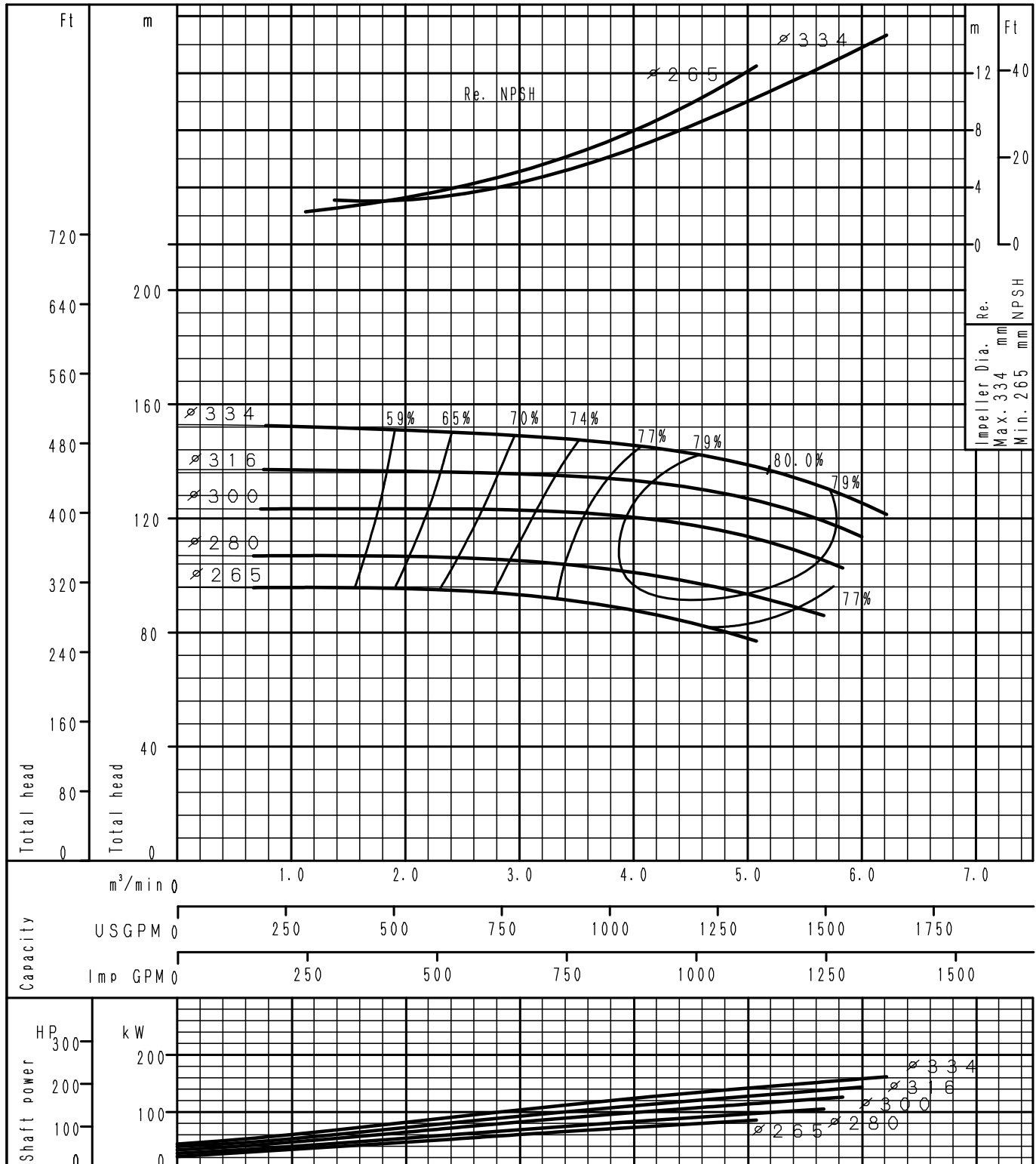
GS80-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

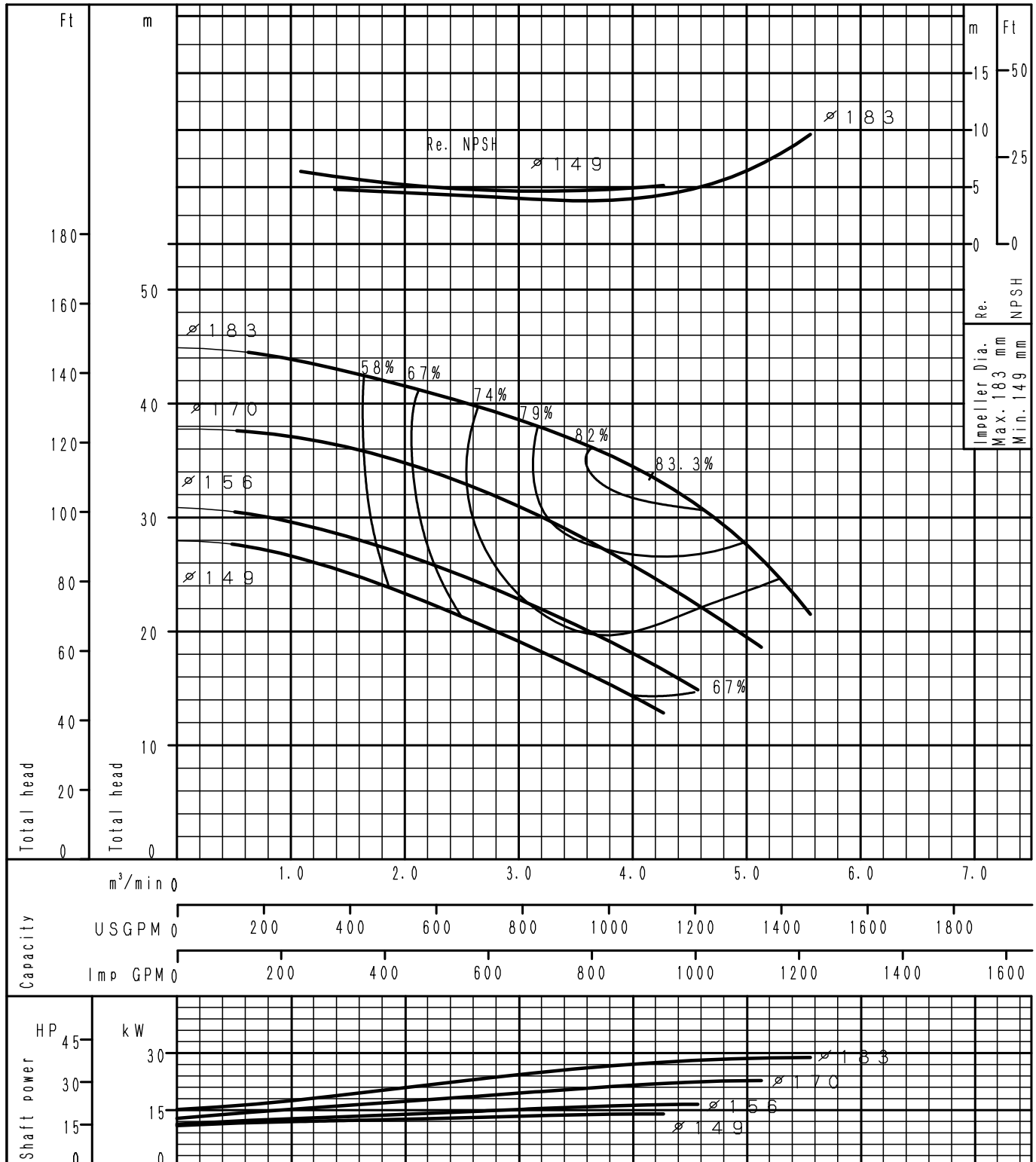
GS80-315L	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

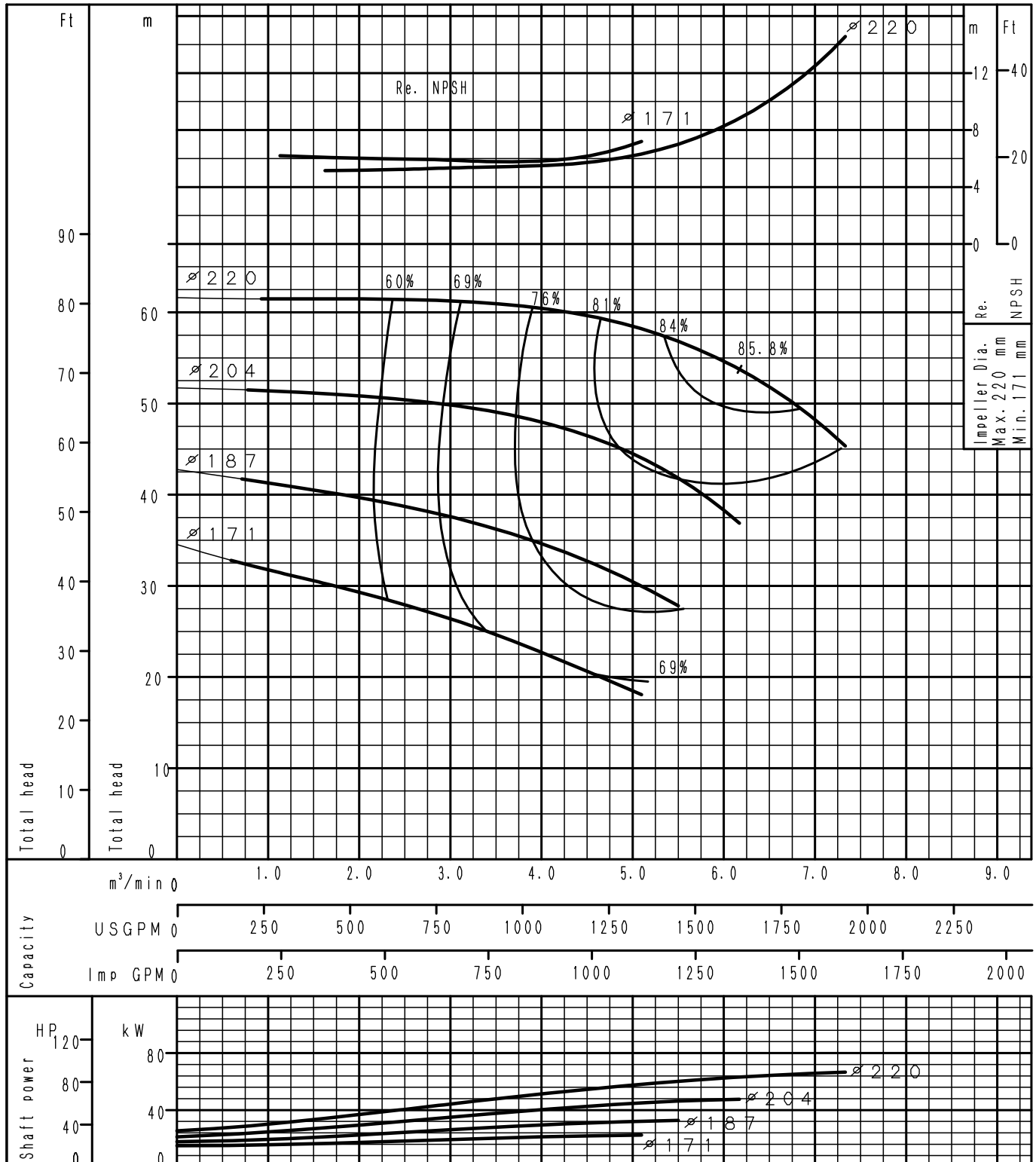
GS100-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

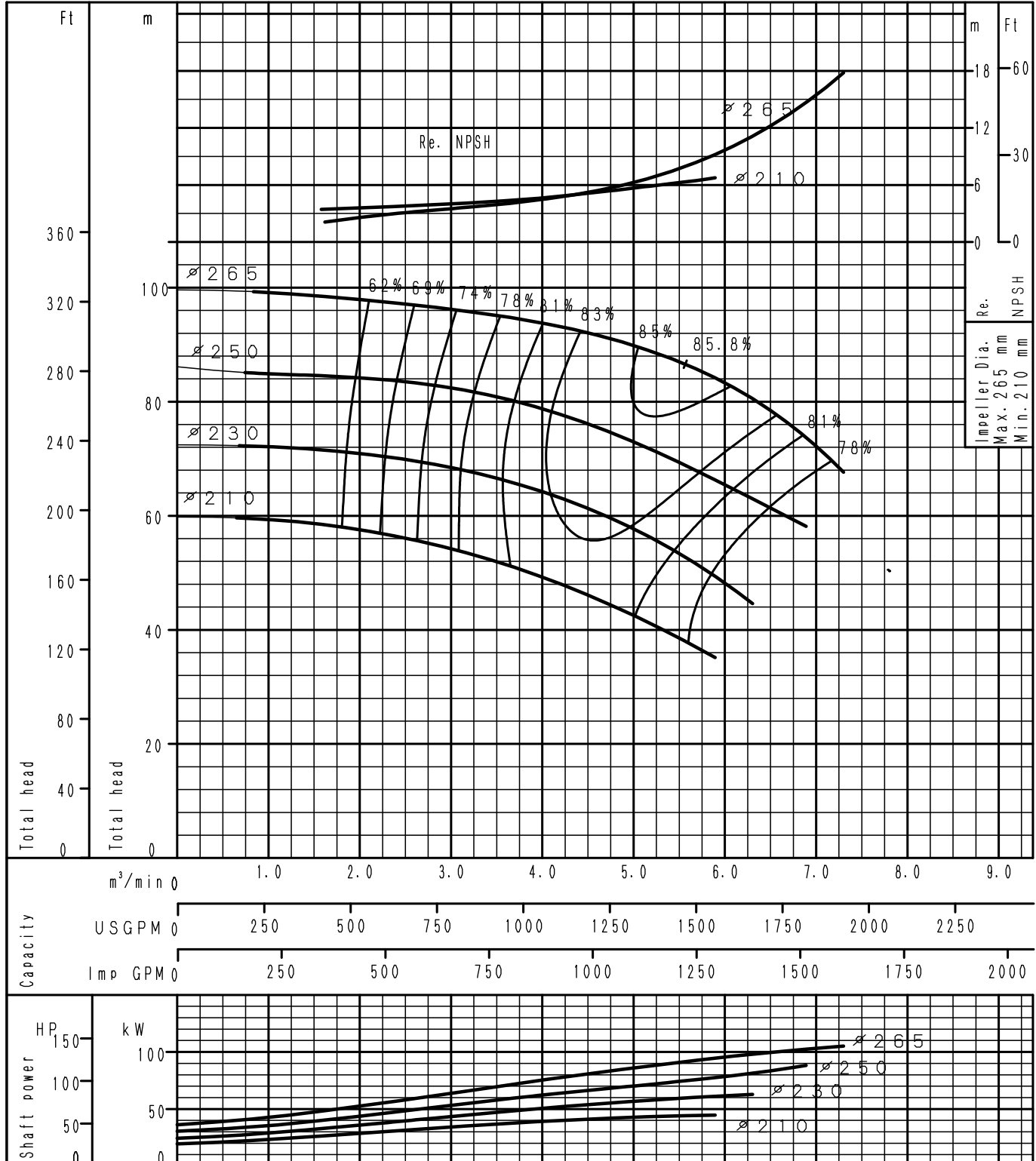
GS100-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

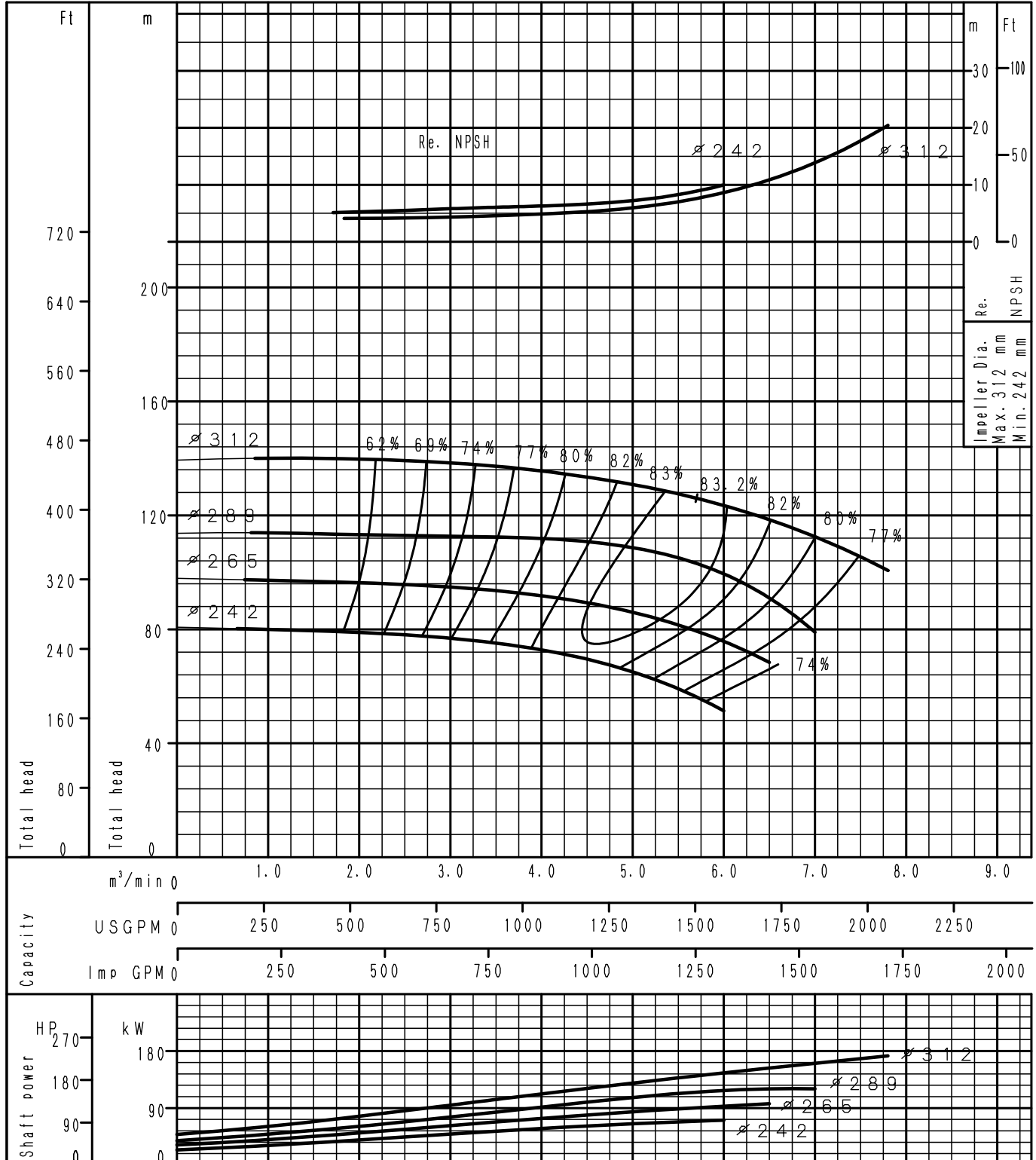
GS100-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

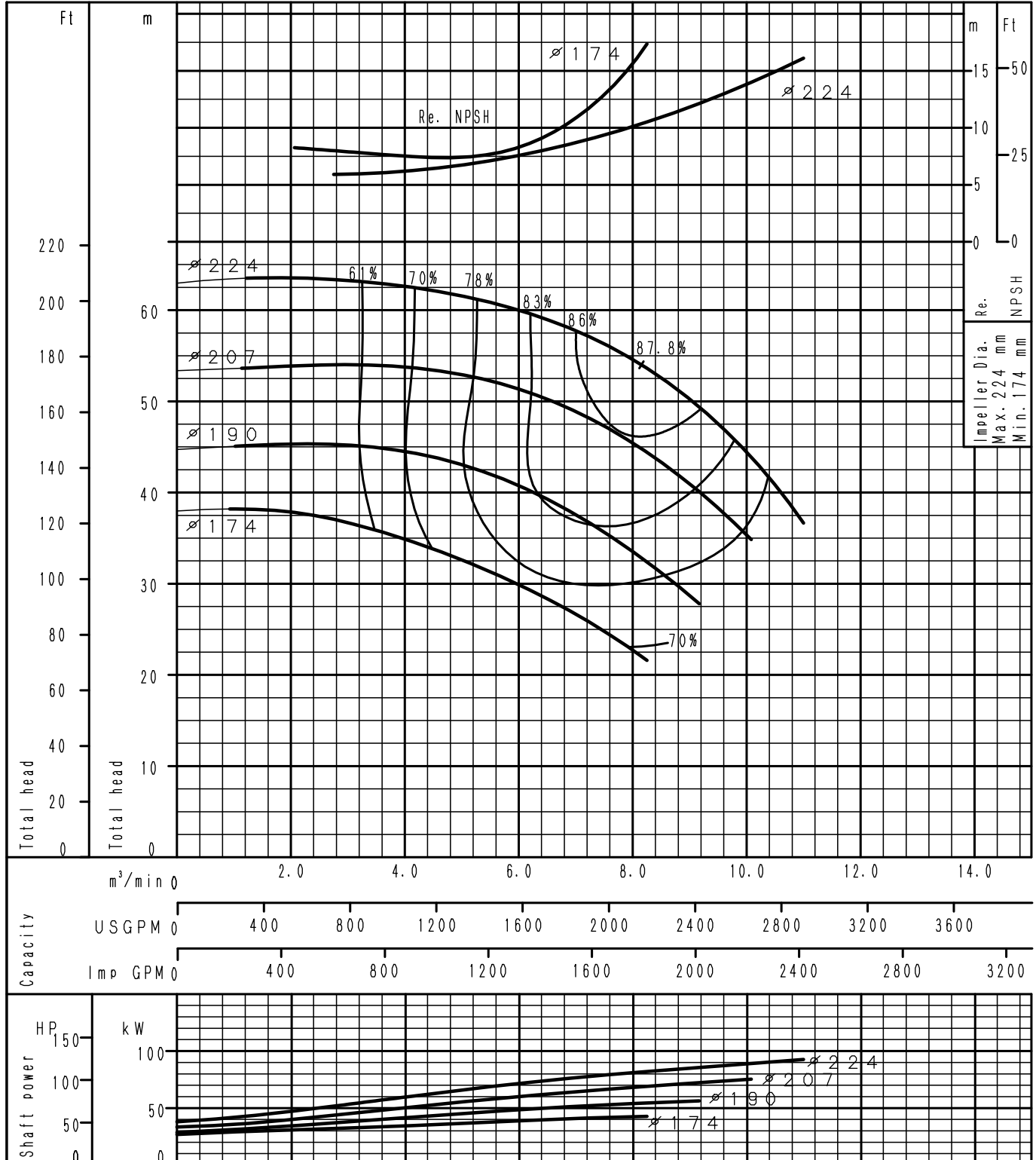
GS100-315L	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

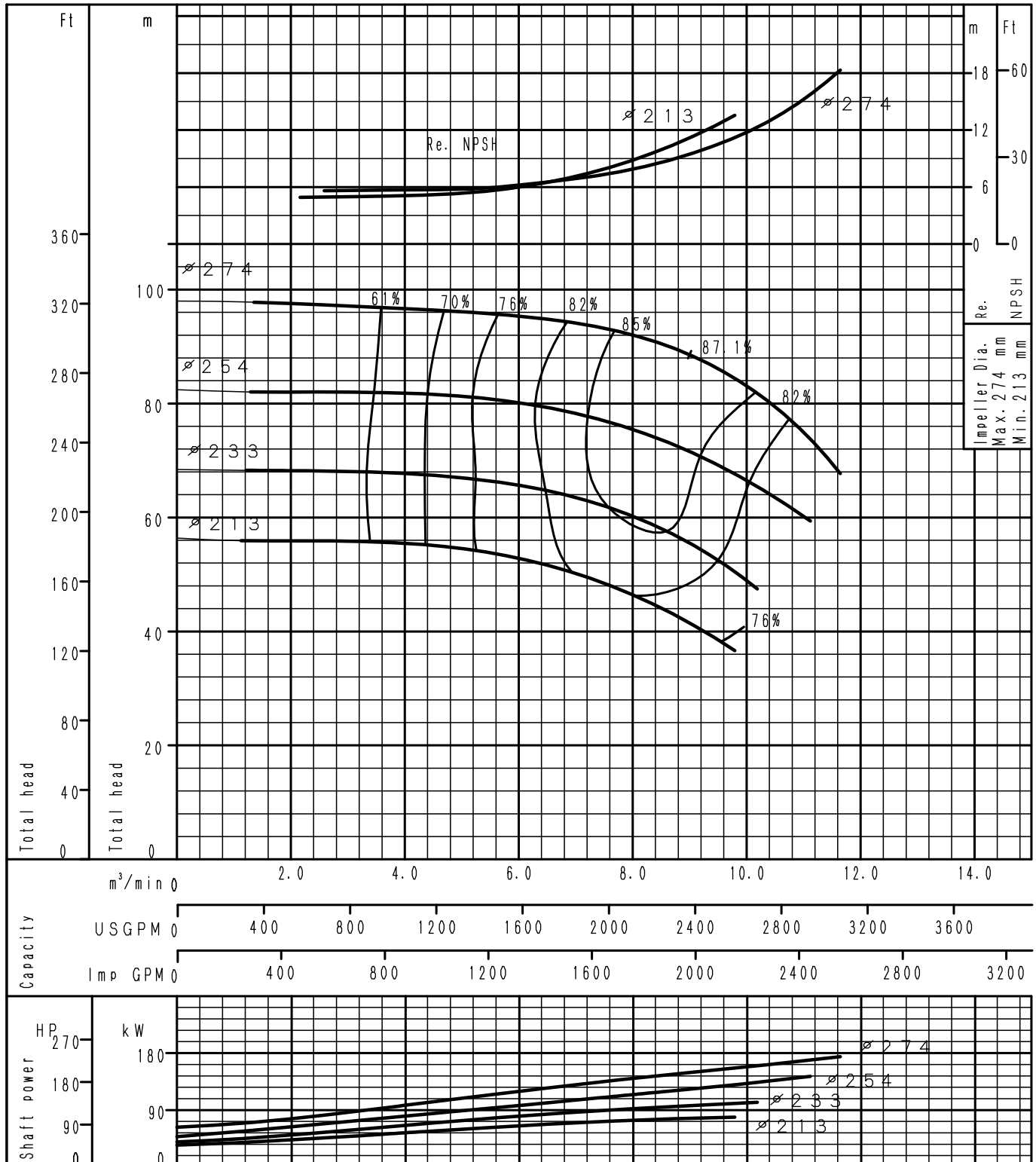
GS125-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

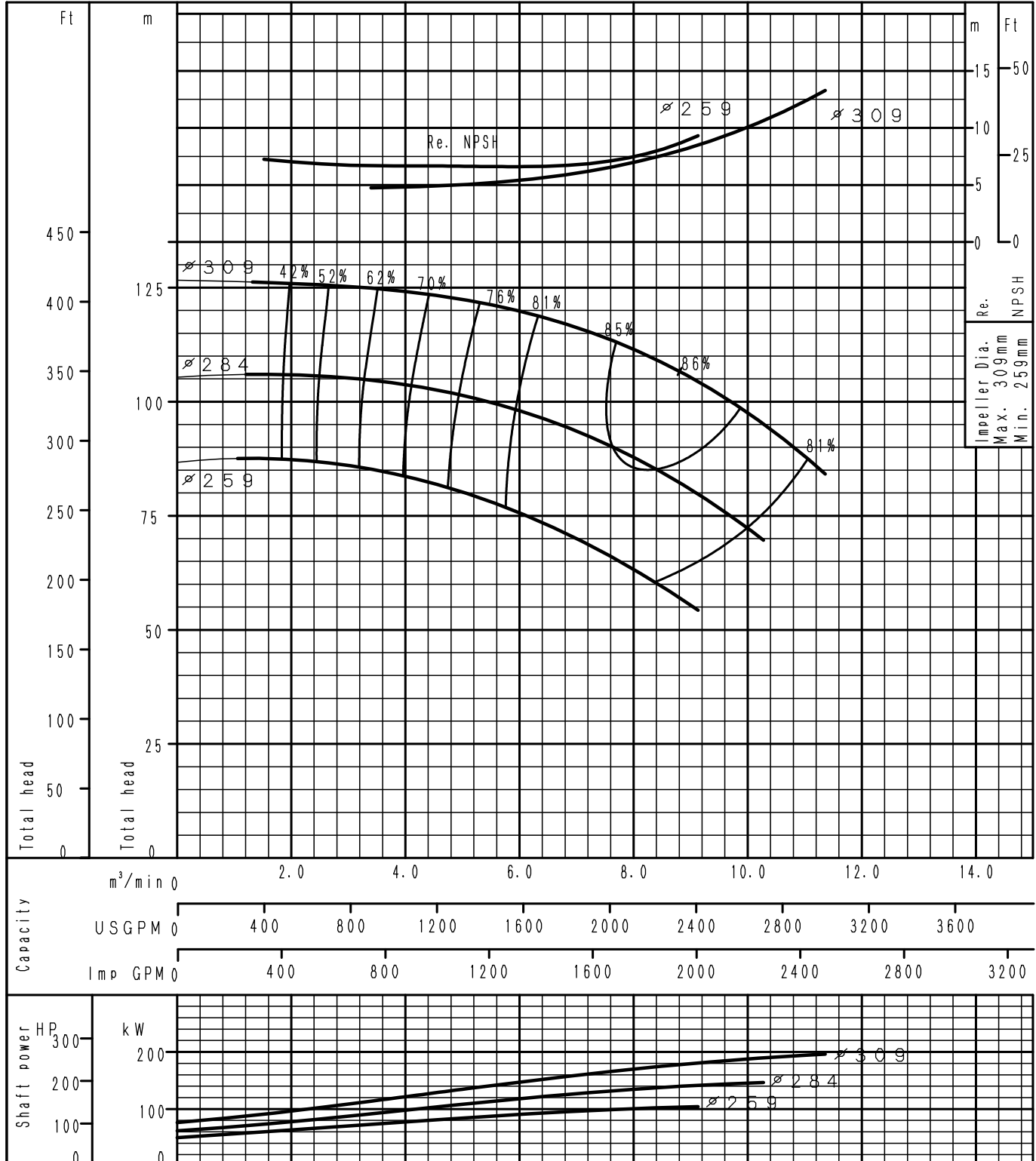
GS125-250L	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

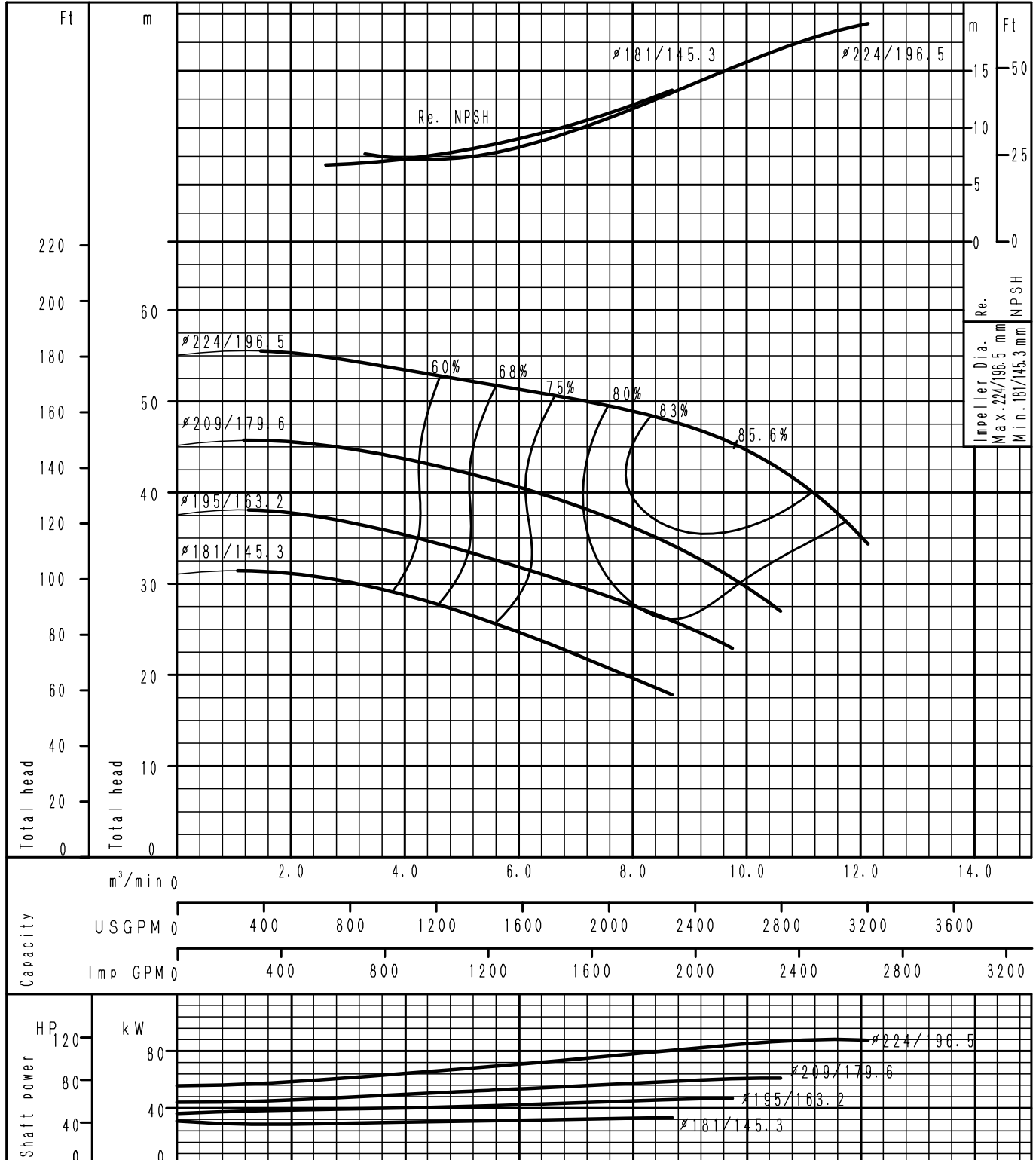
GS125-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

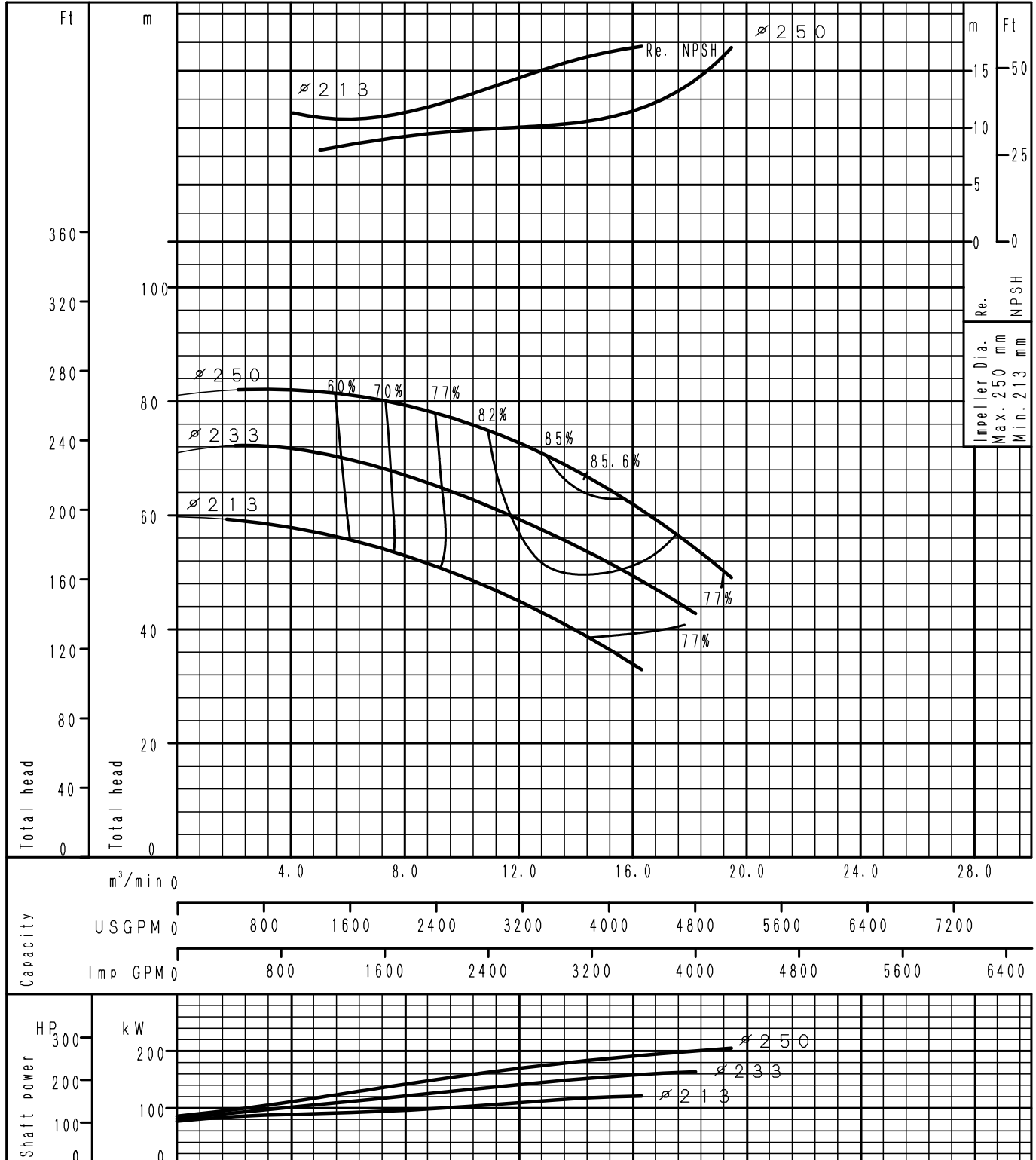
GS150-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

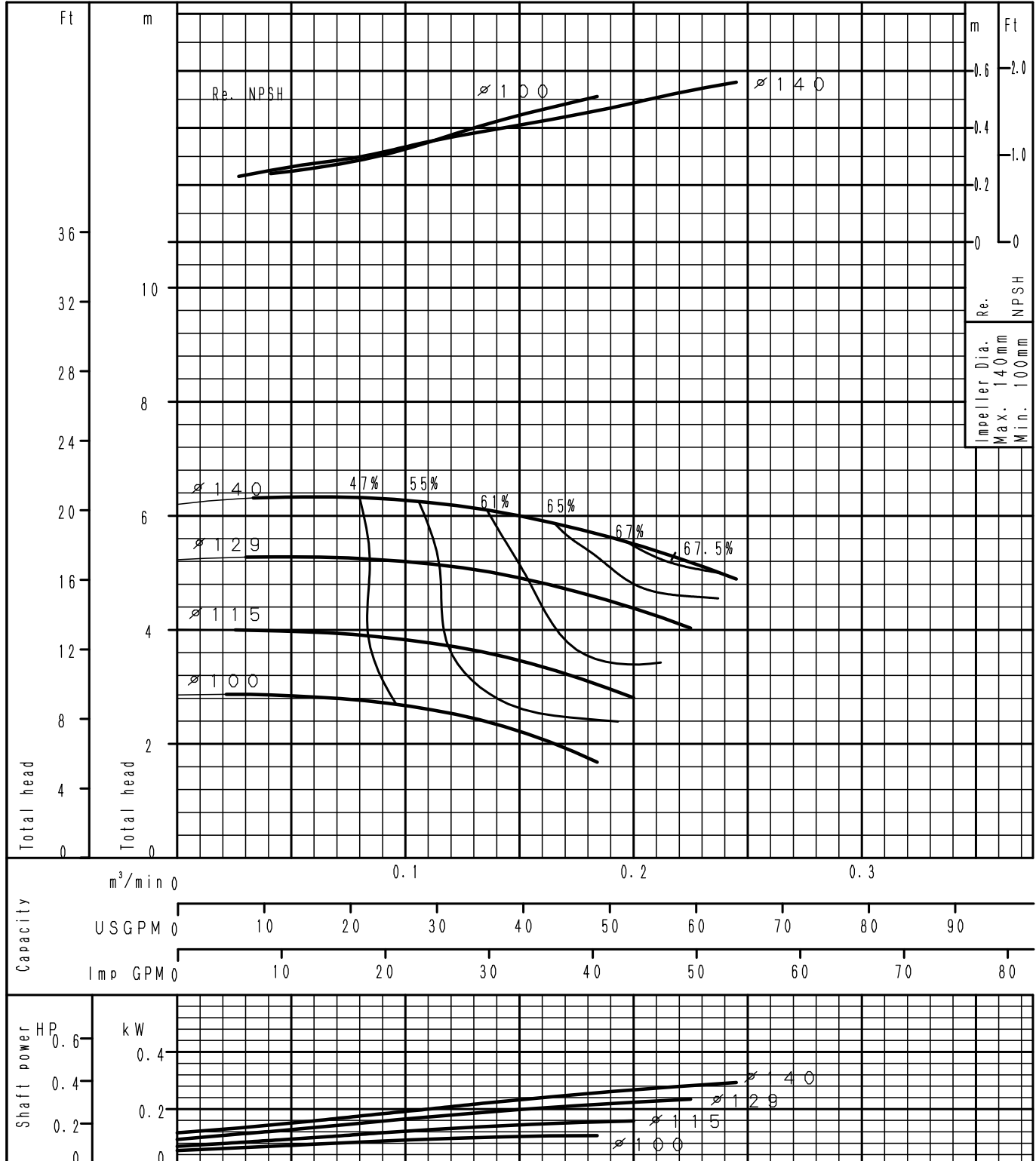
GS150-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

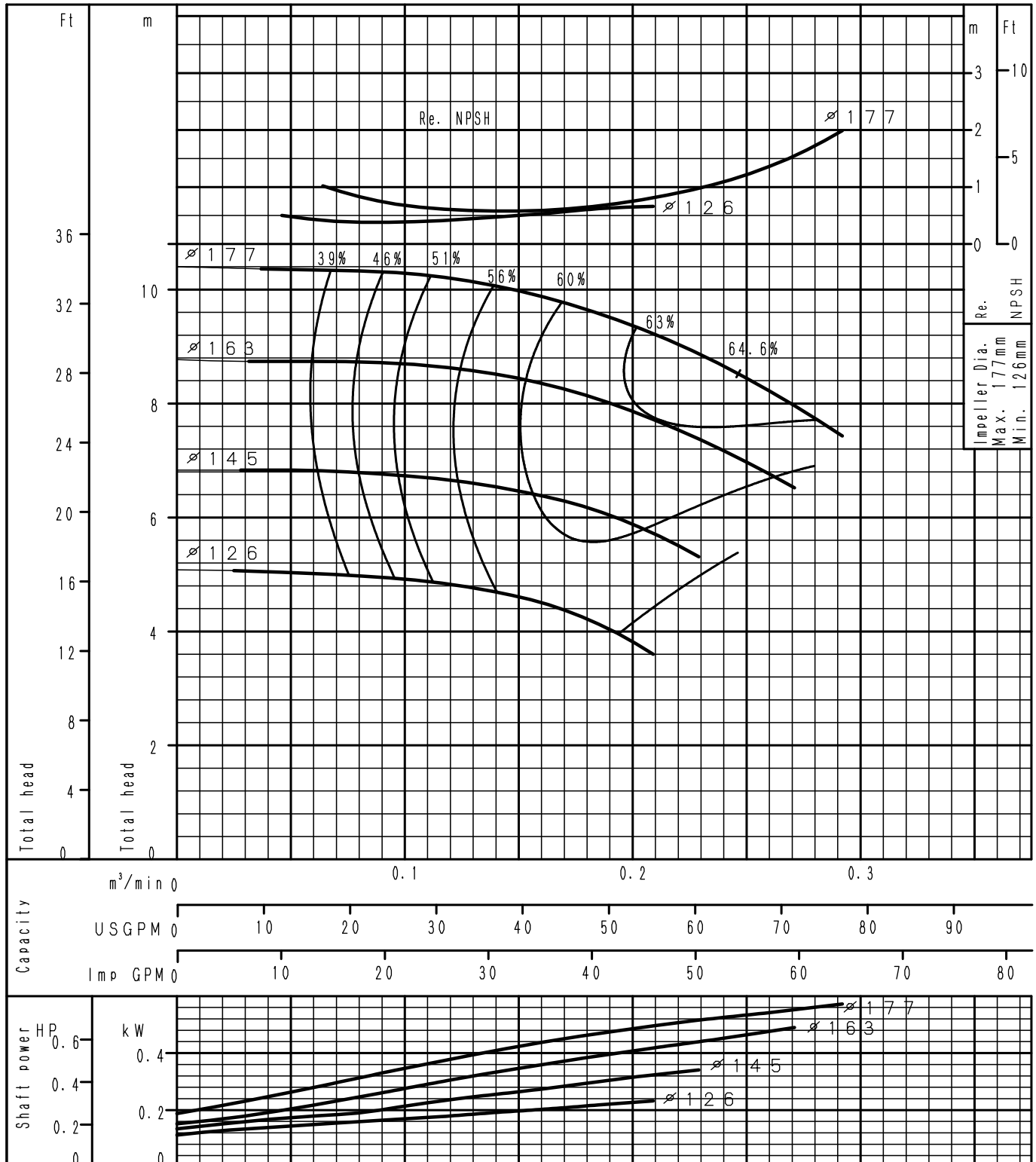
GS32-125.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

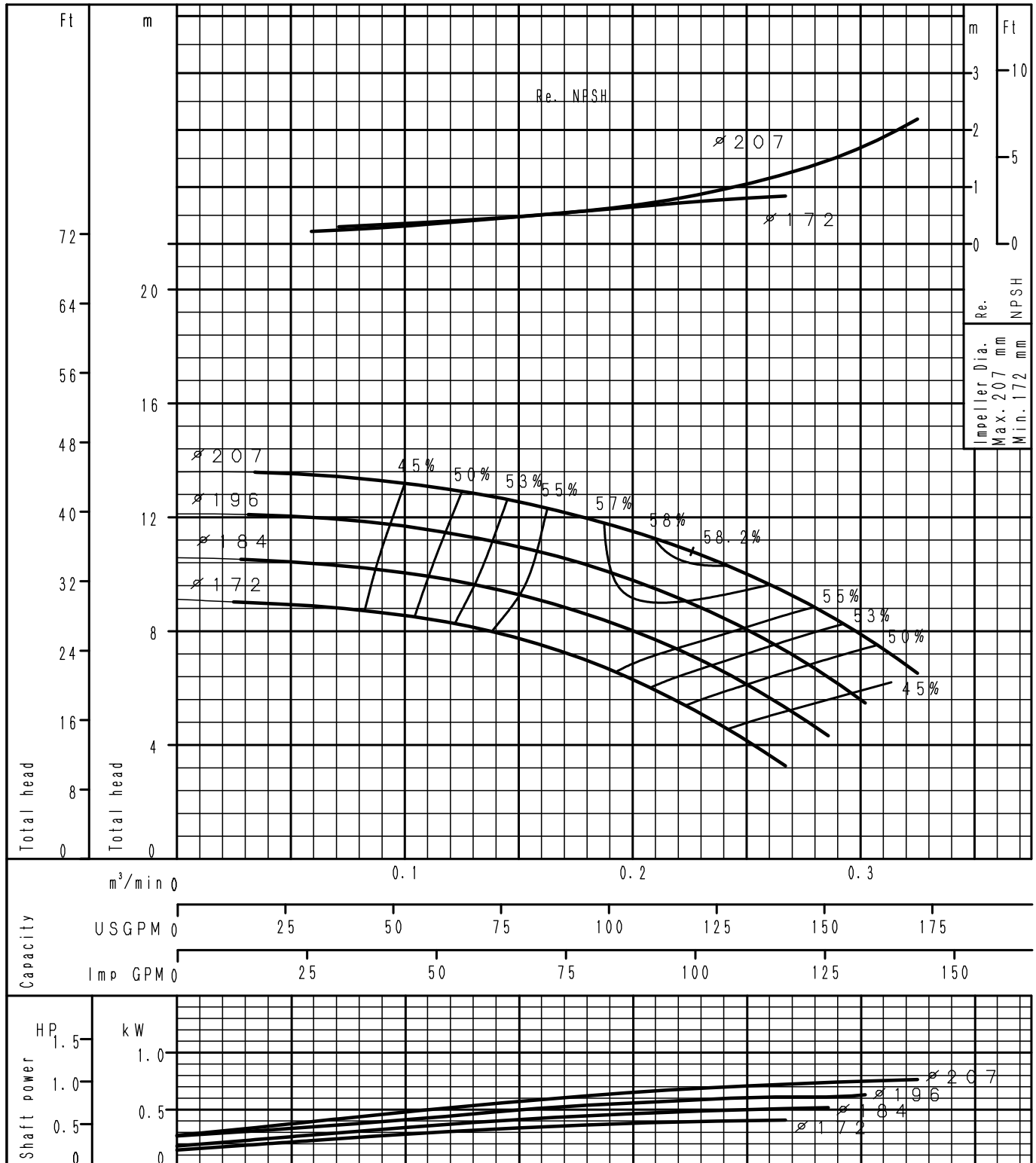
GS32-160.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

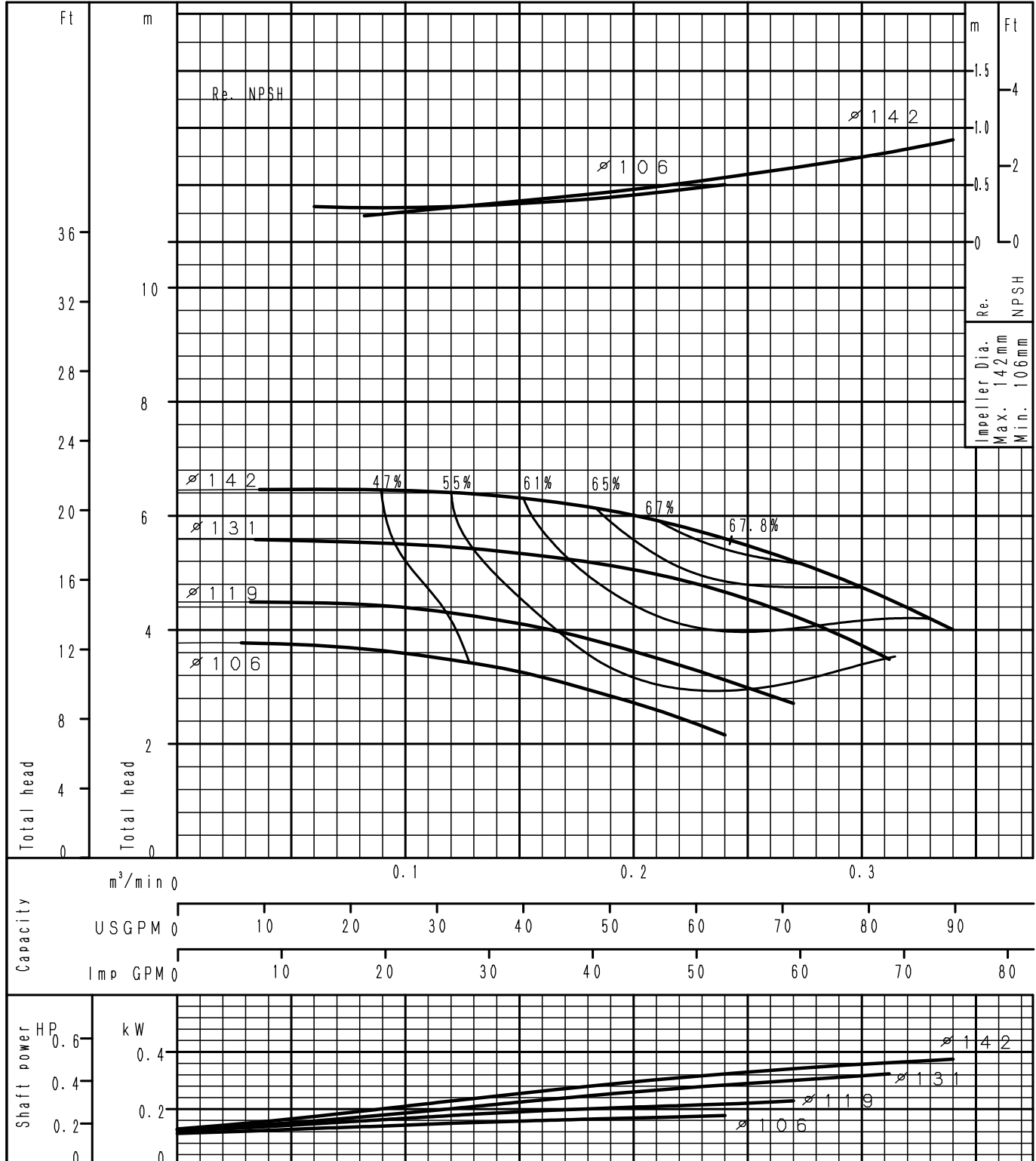
GS32-200.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

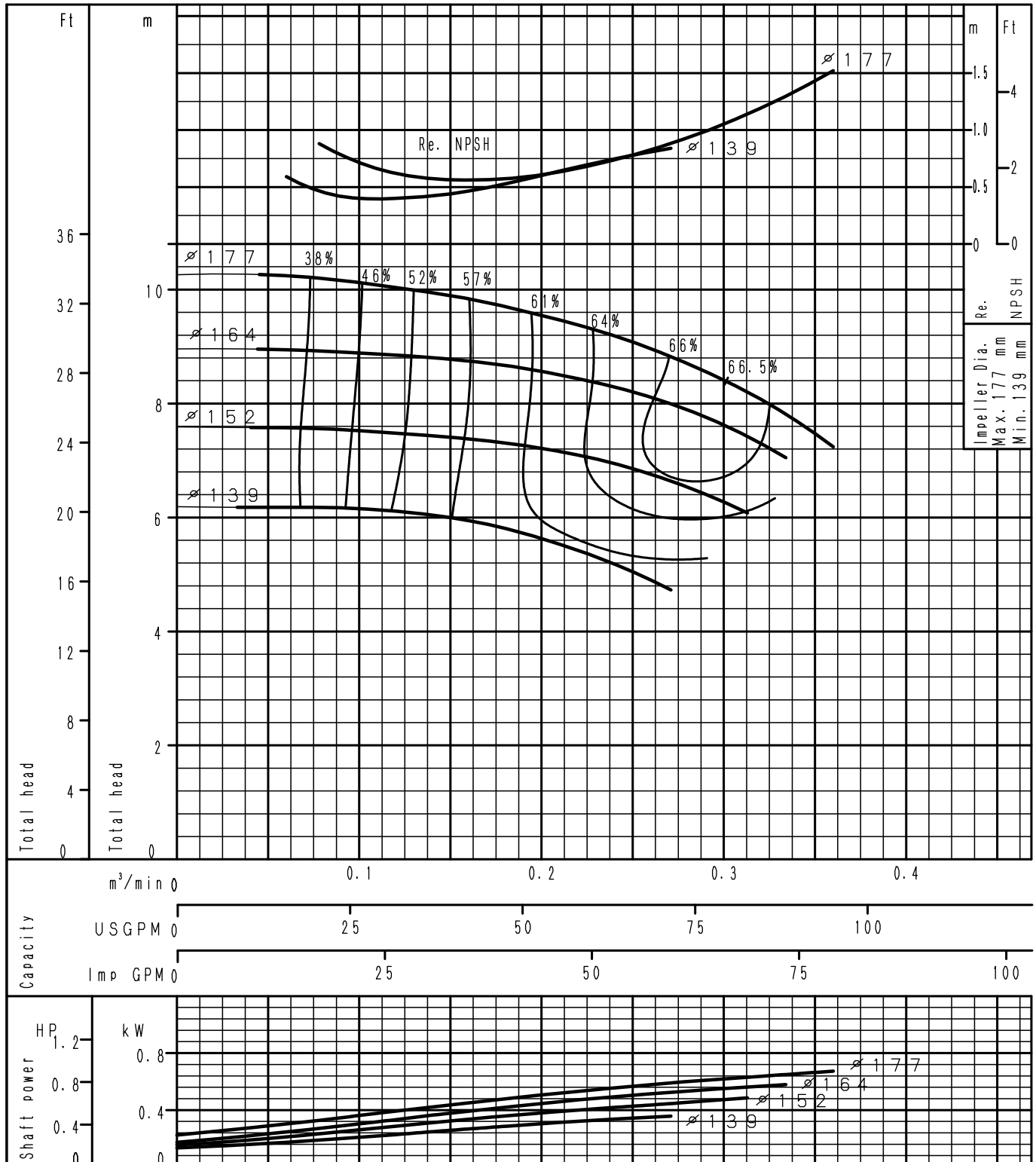
GS32-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

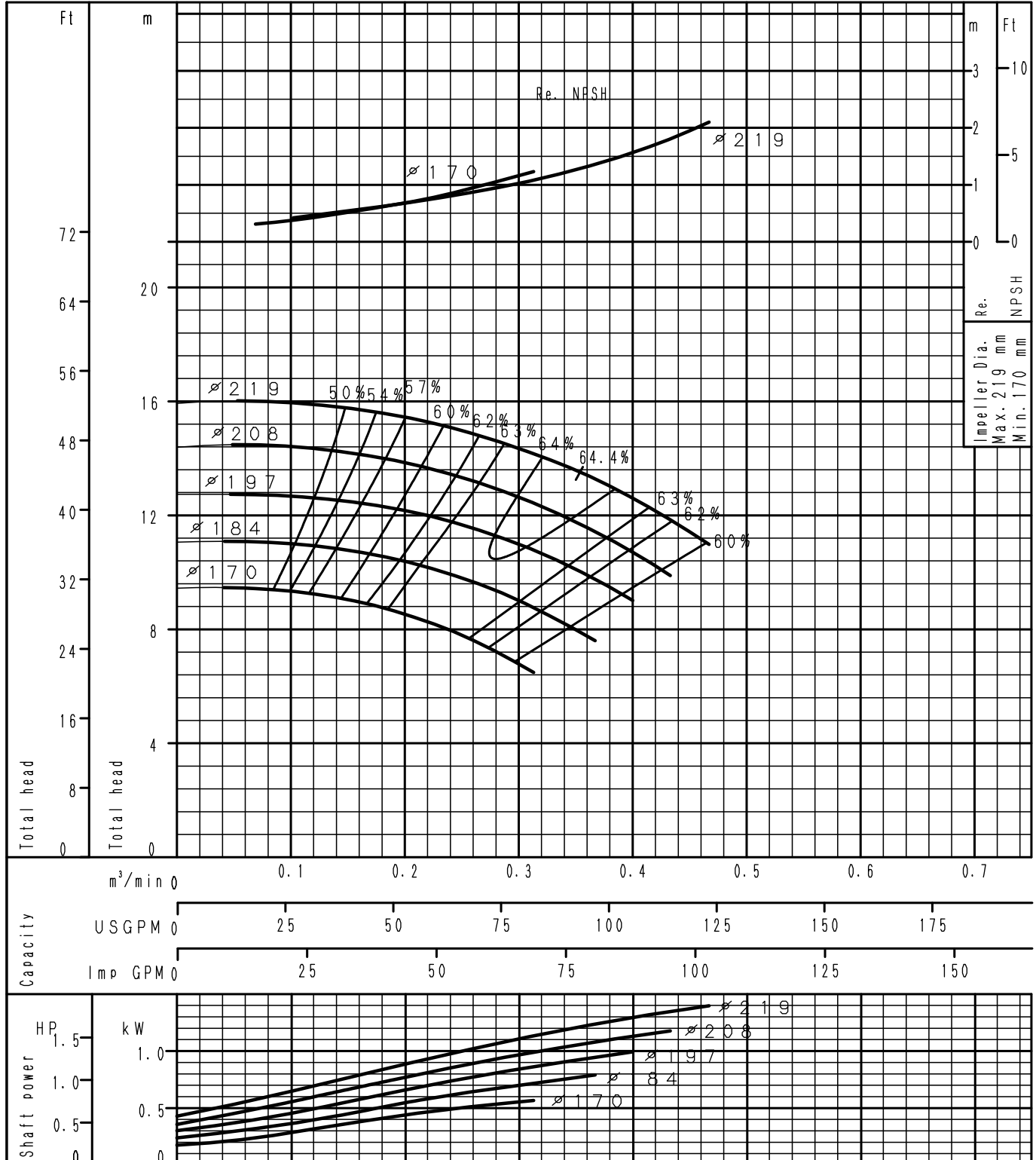
GS32-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

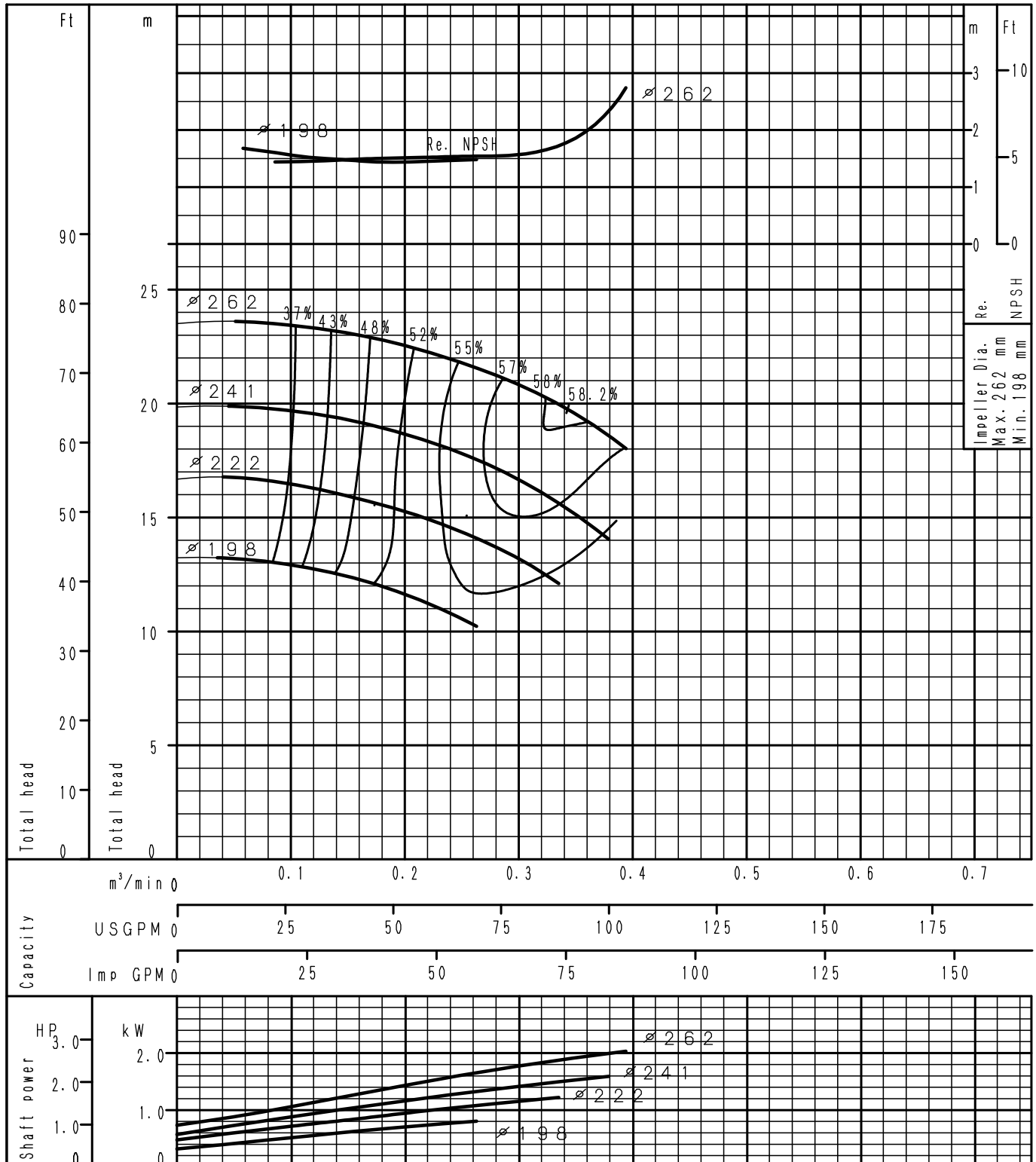
GS32-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

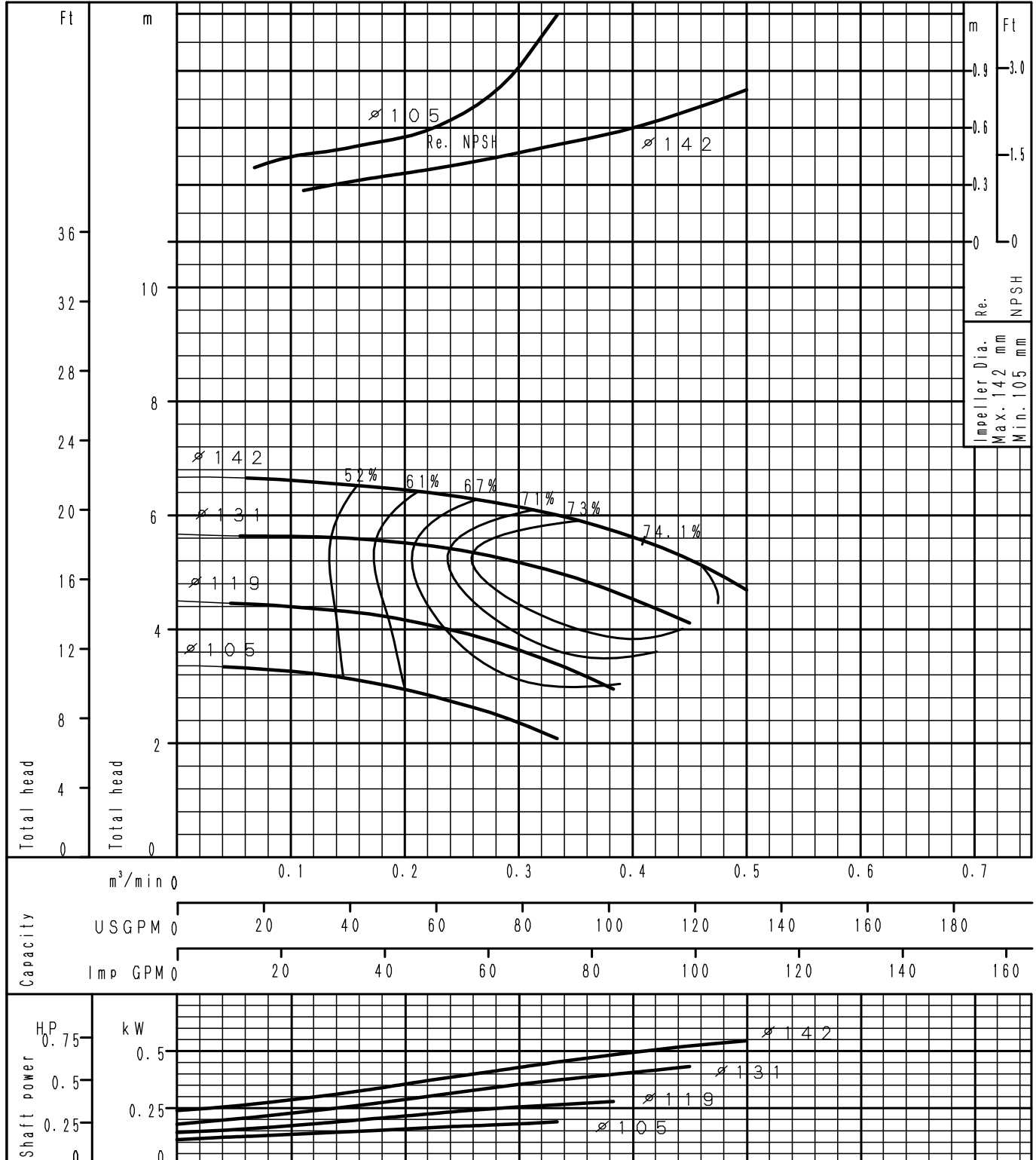
<h1 style="margin: 0;">GS32-250</h1>	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

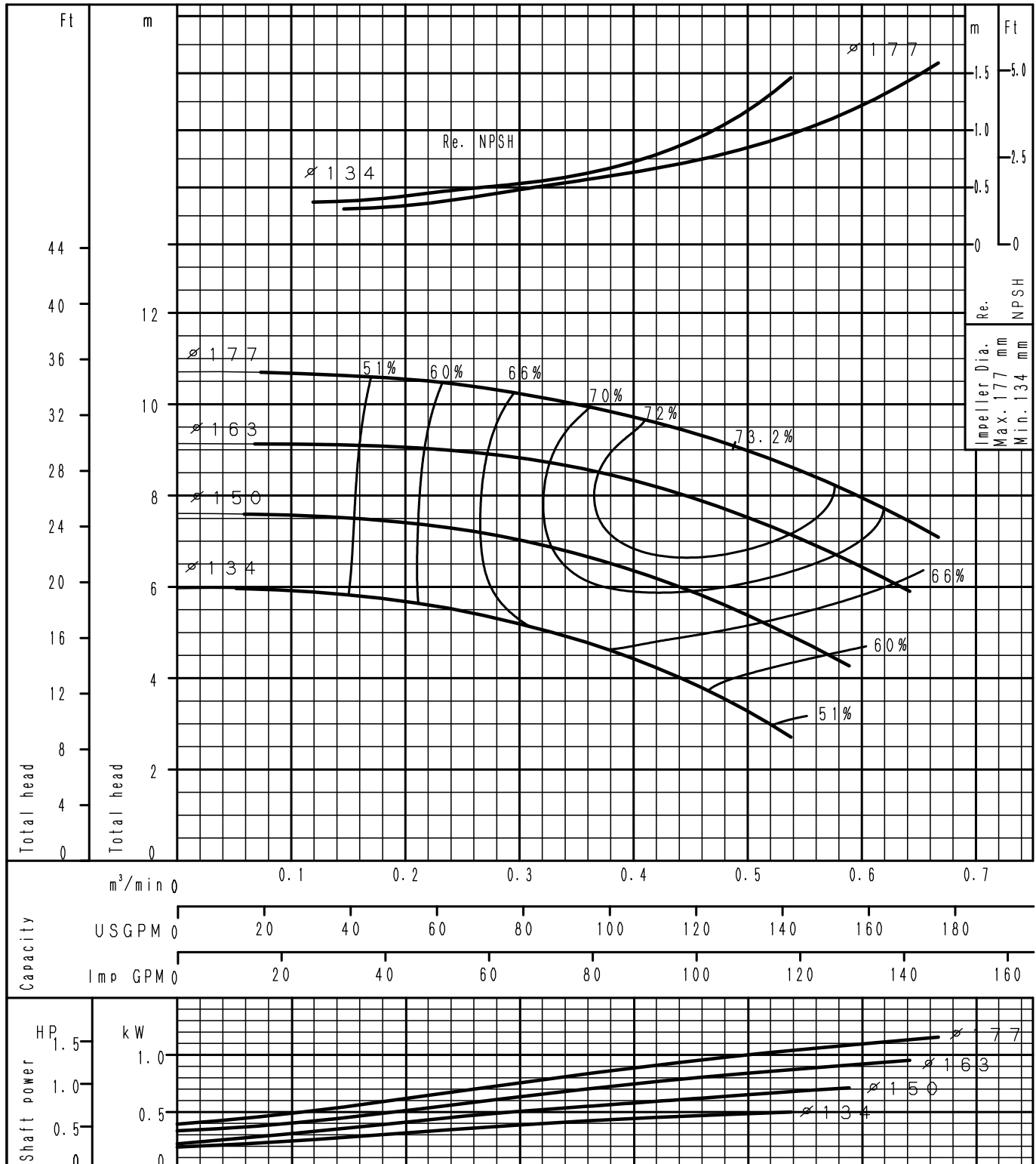
GS40-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

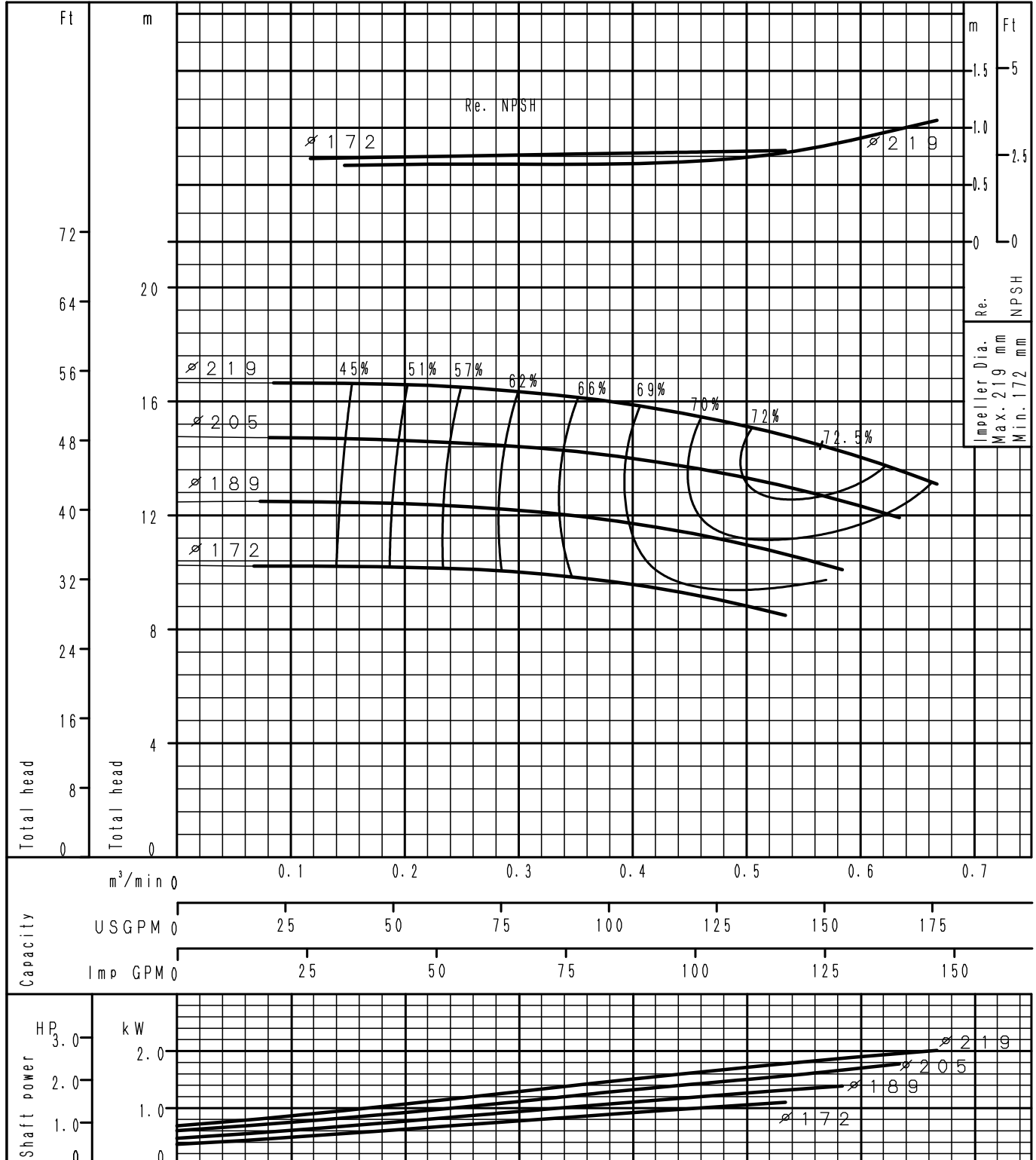
GS40-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

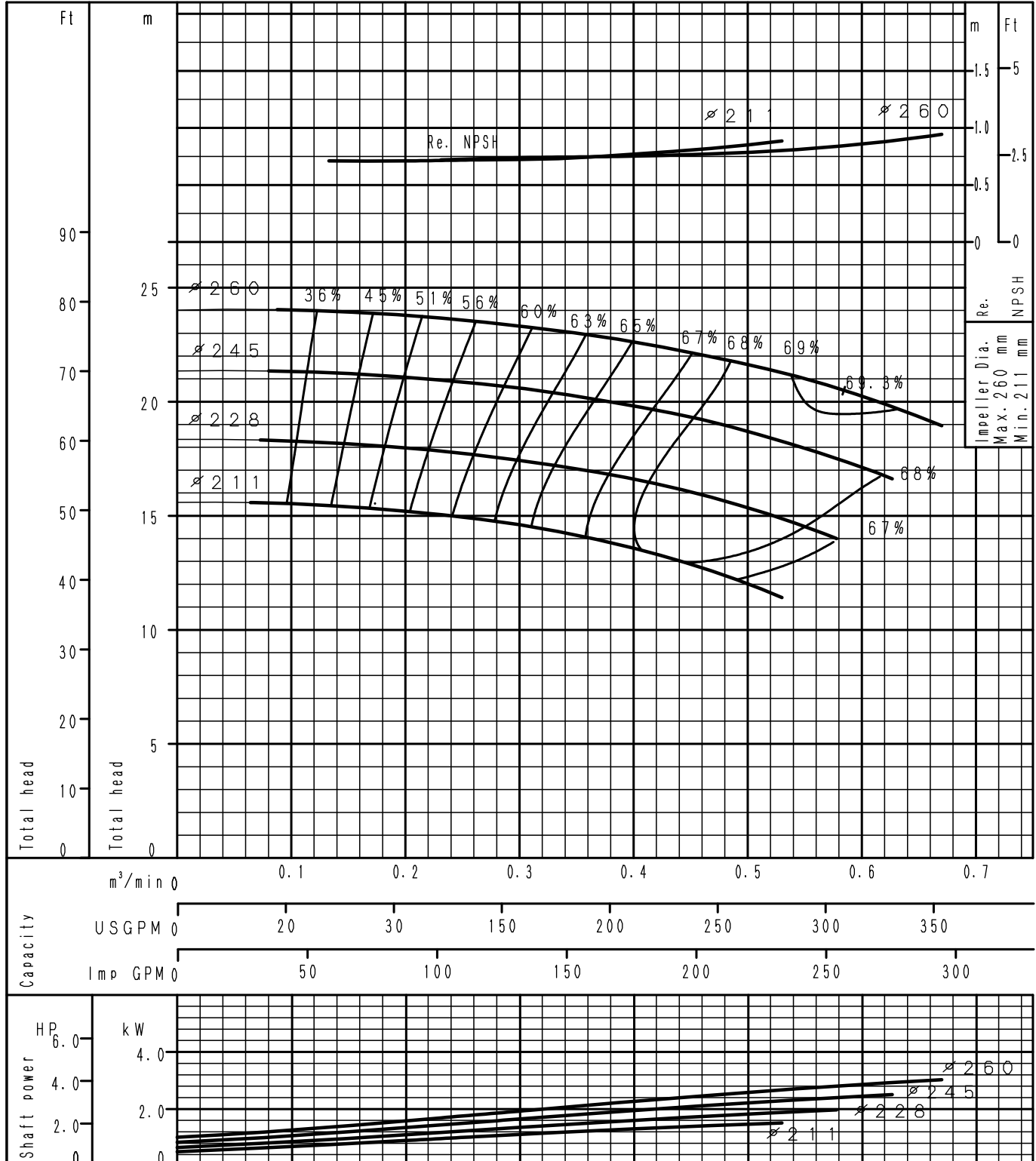
GS40-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

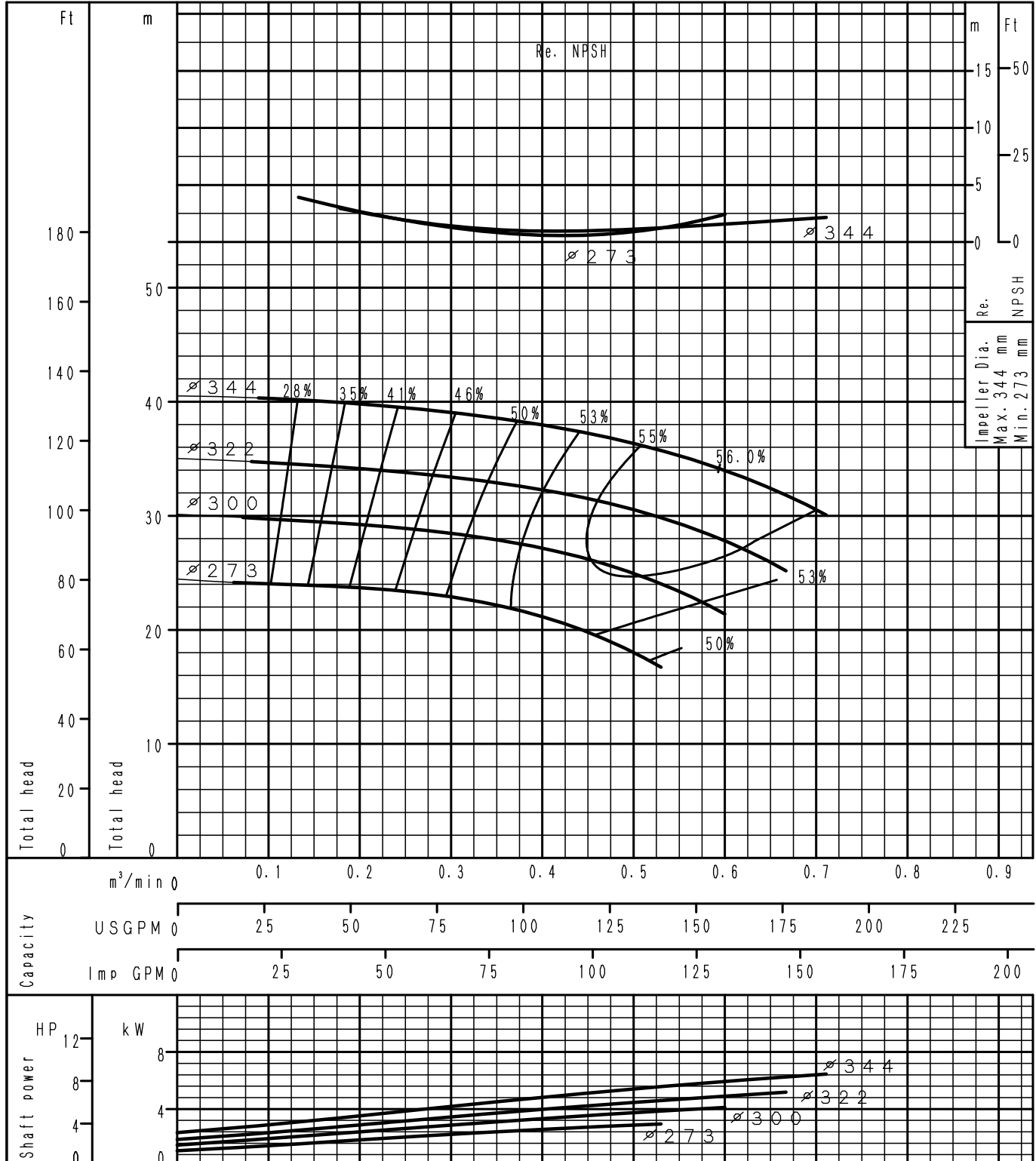
GS40-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

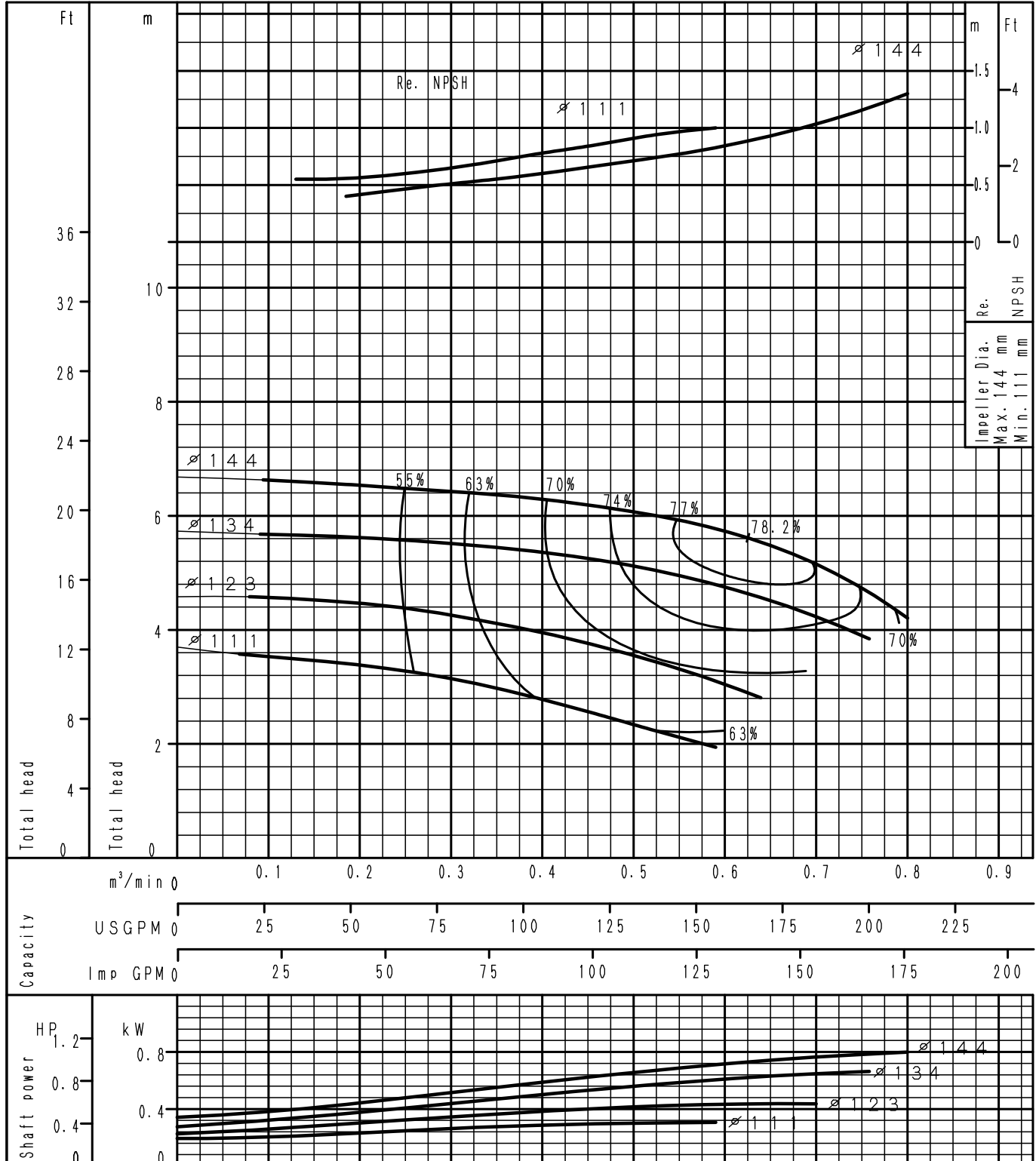
GS40-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

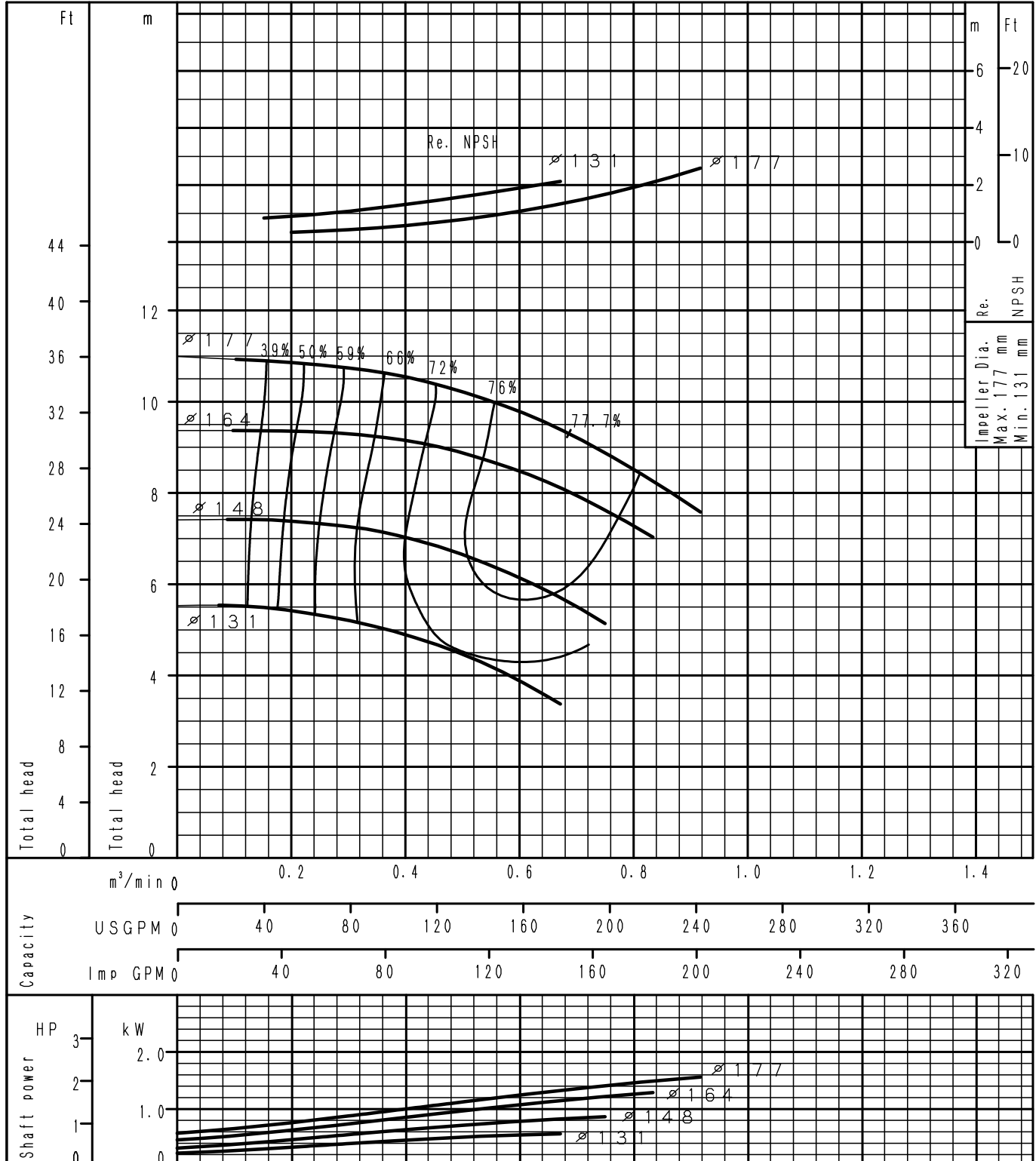
GS50-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

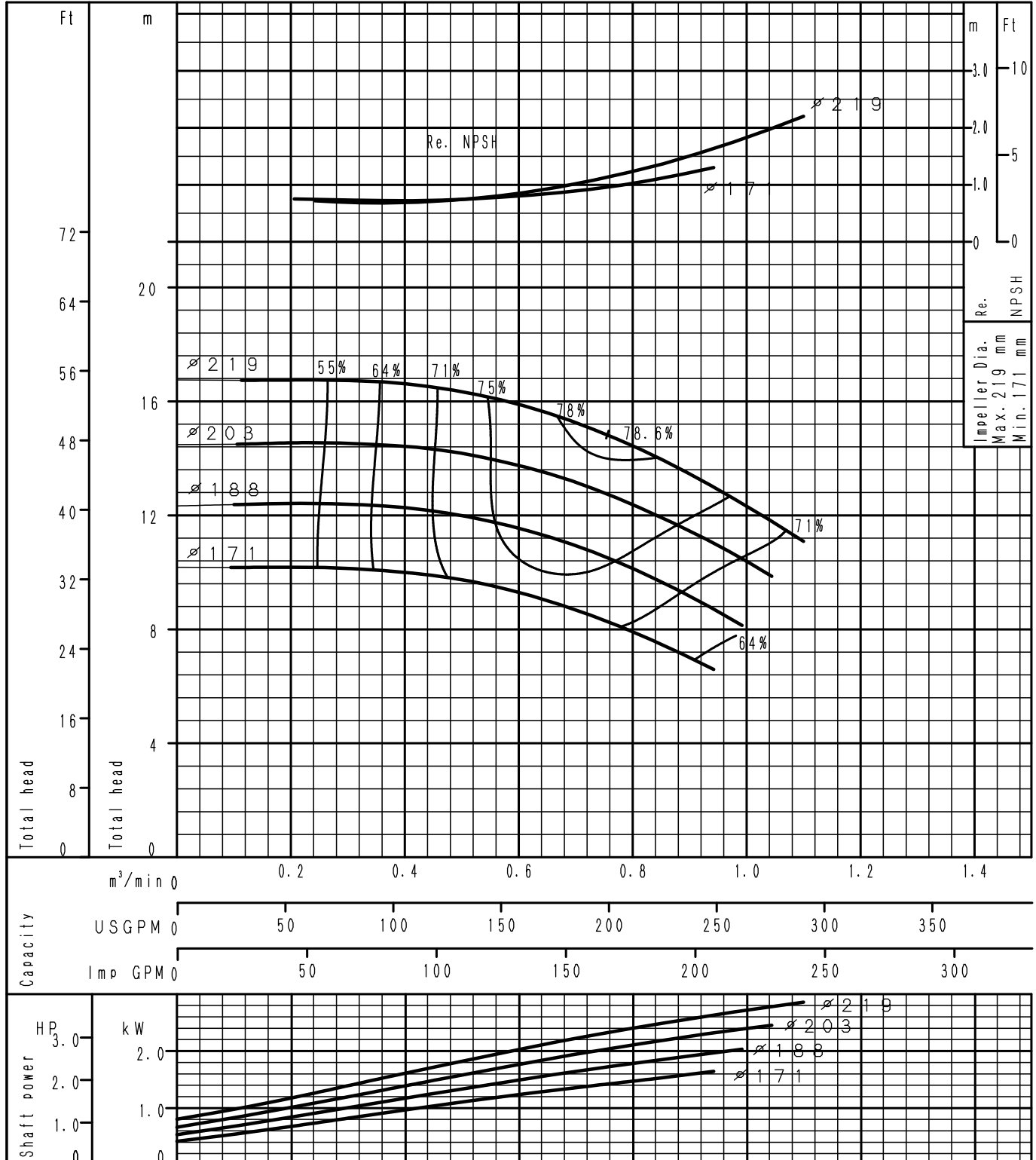
GS50-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

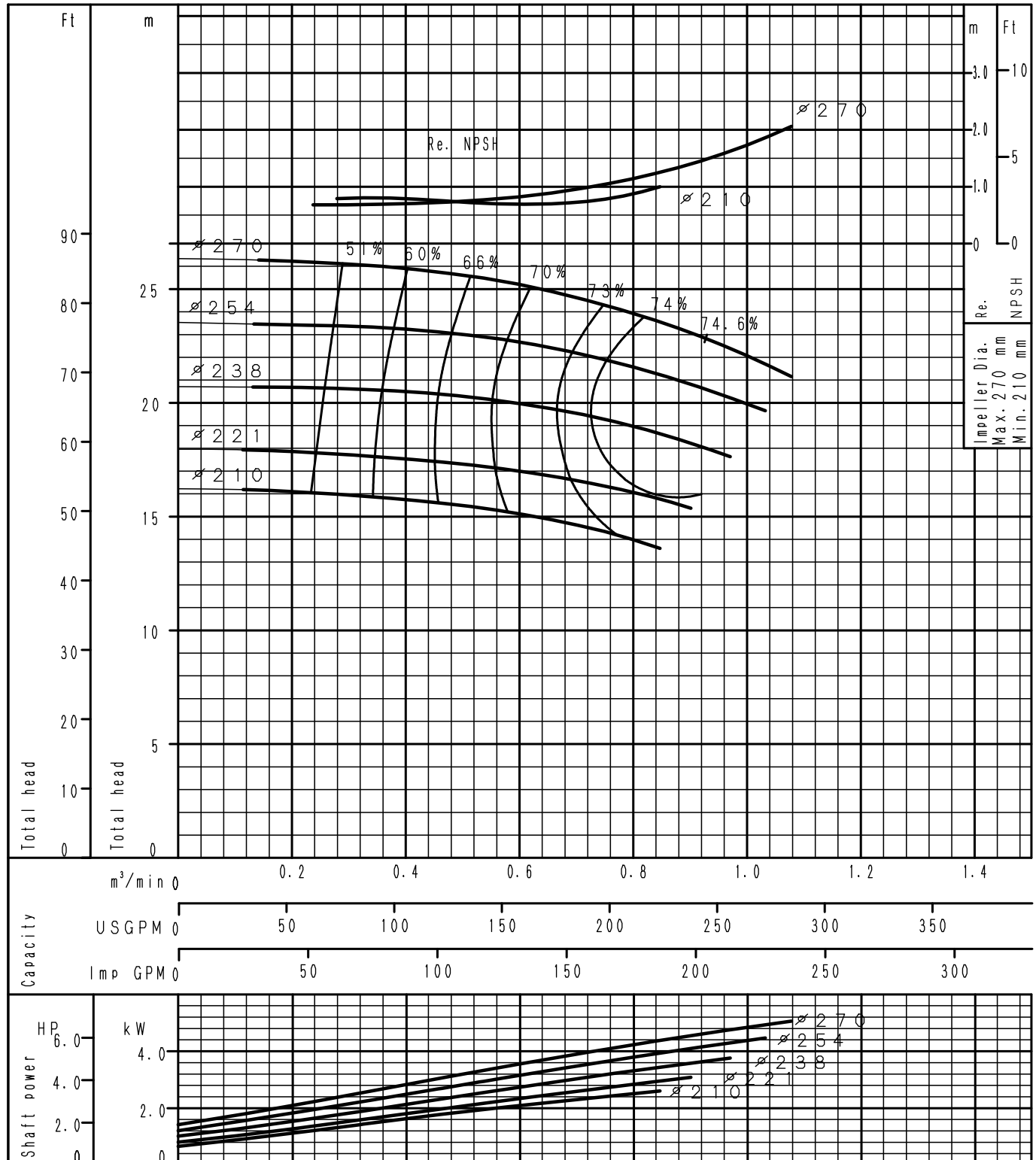
GS50-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

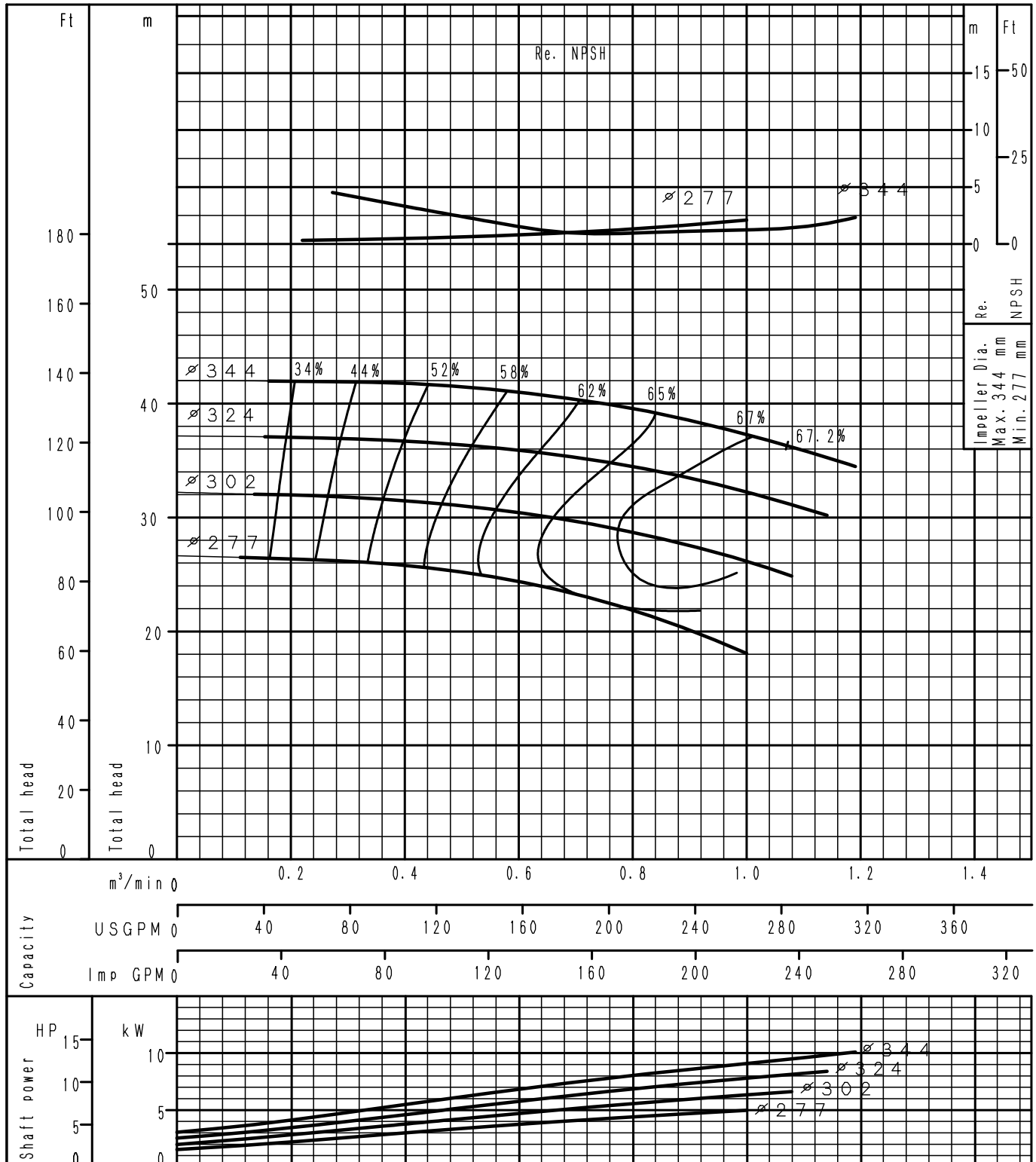
GS50-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	
DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s	



Performance Curve

4 Poles

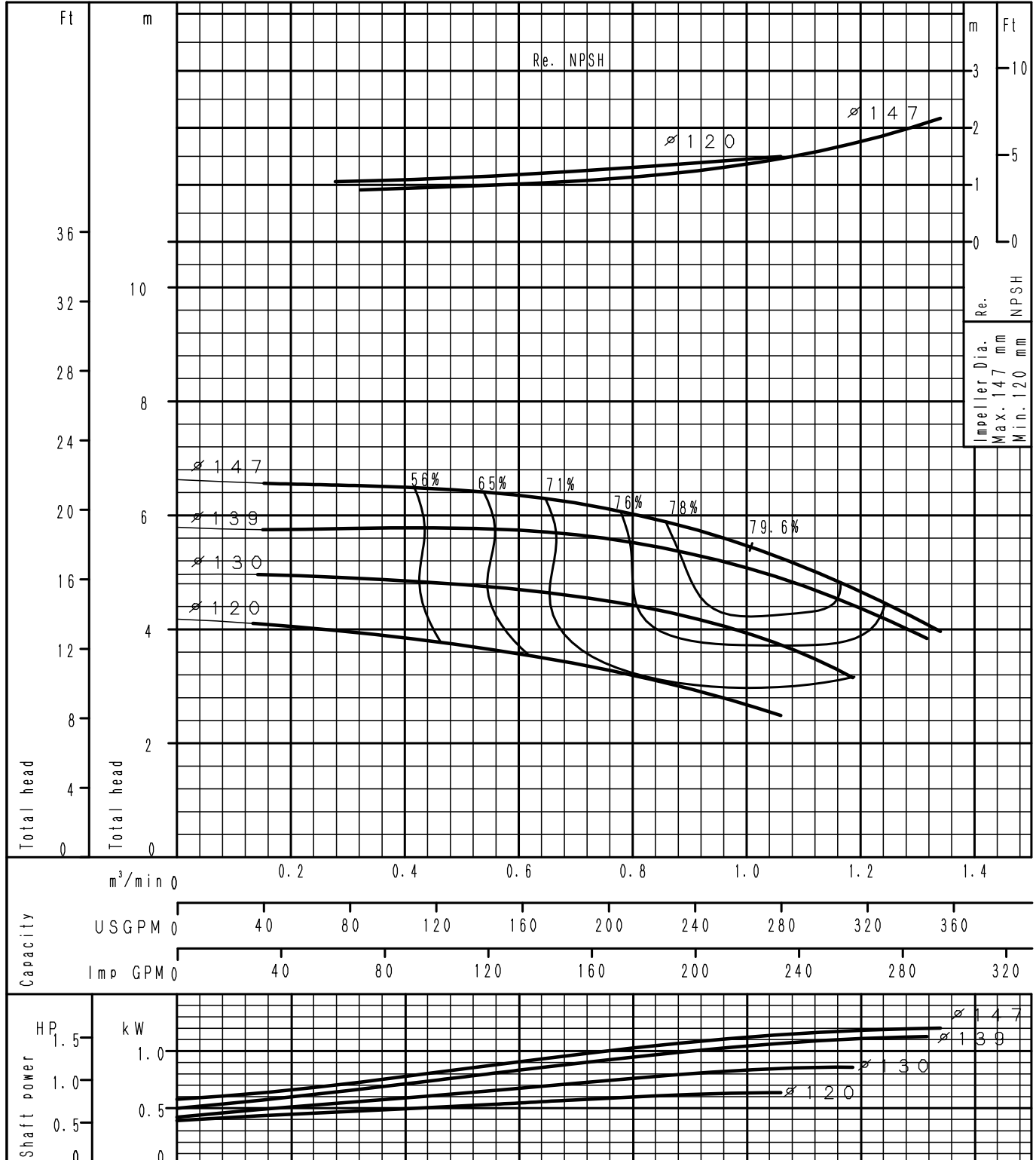
<h1 style="margin: 0;">GS50-315</h1>	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

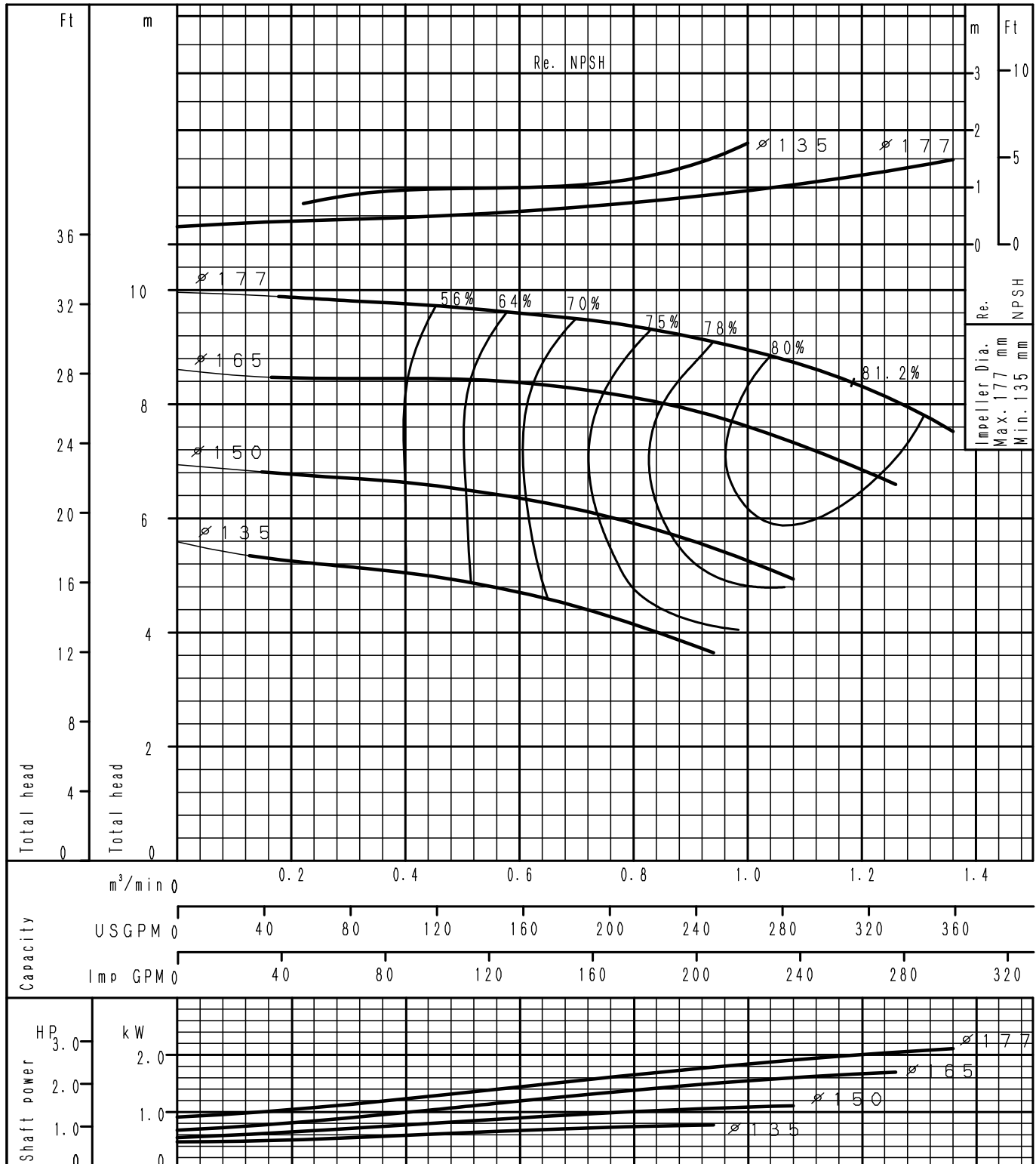
GS65-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

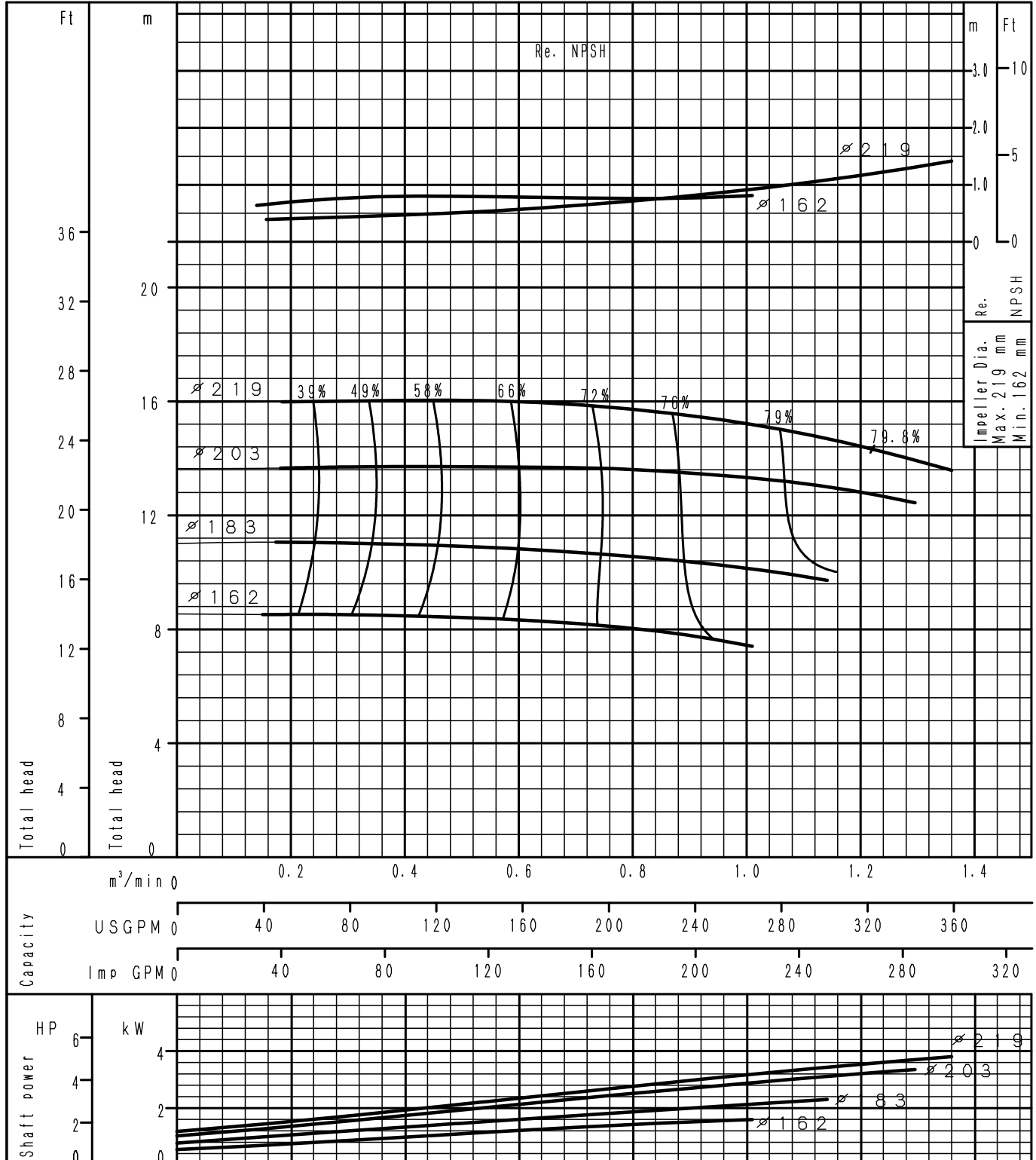
GS65-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

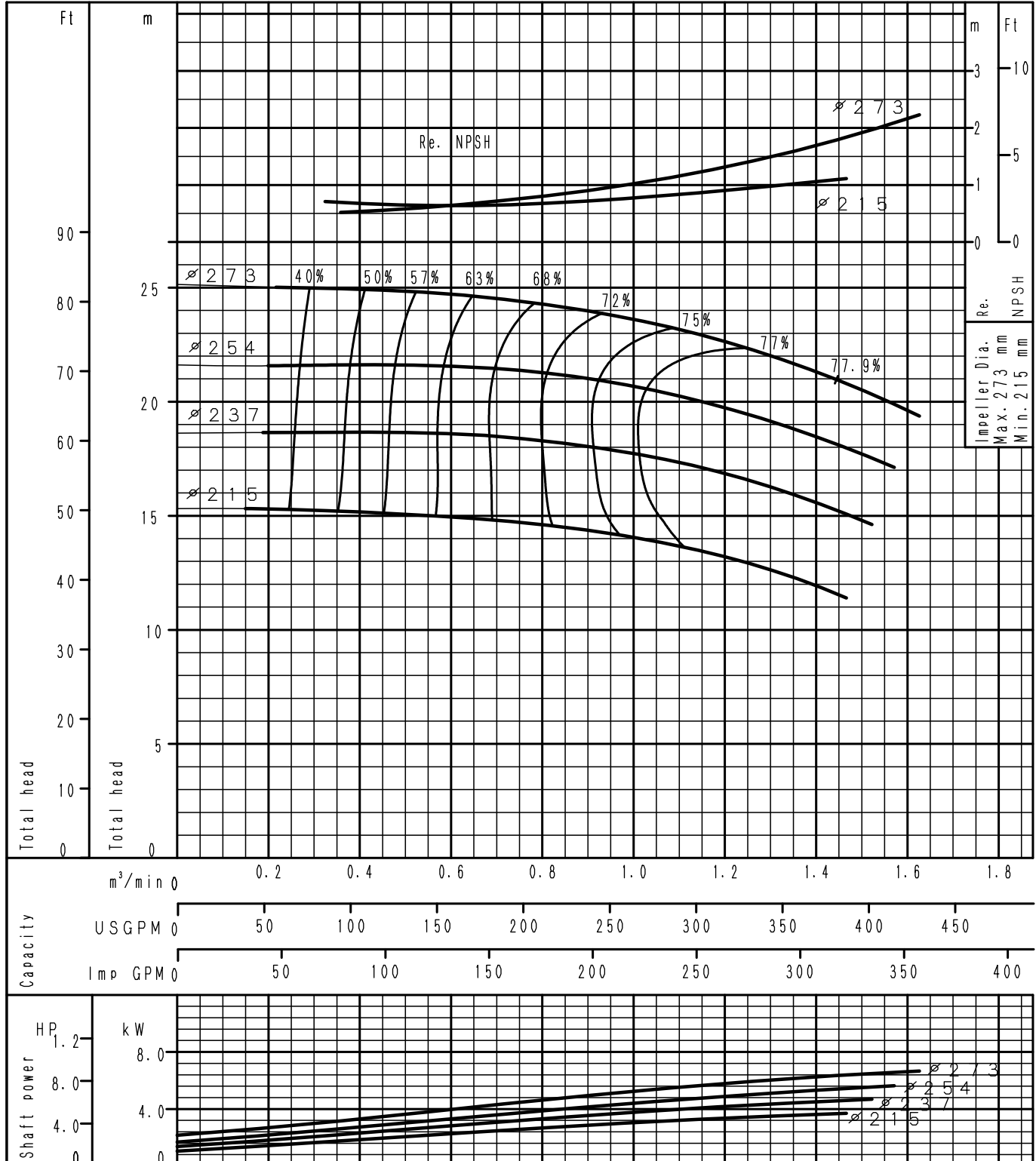
GS65-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

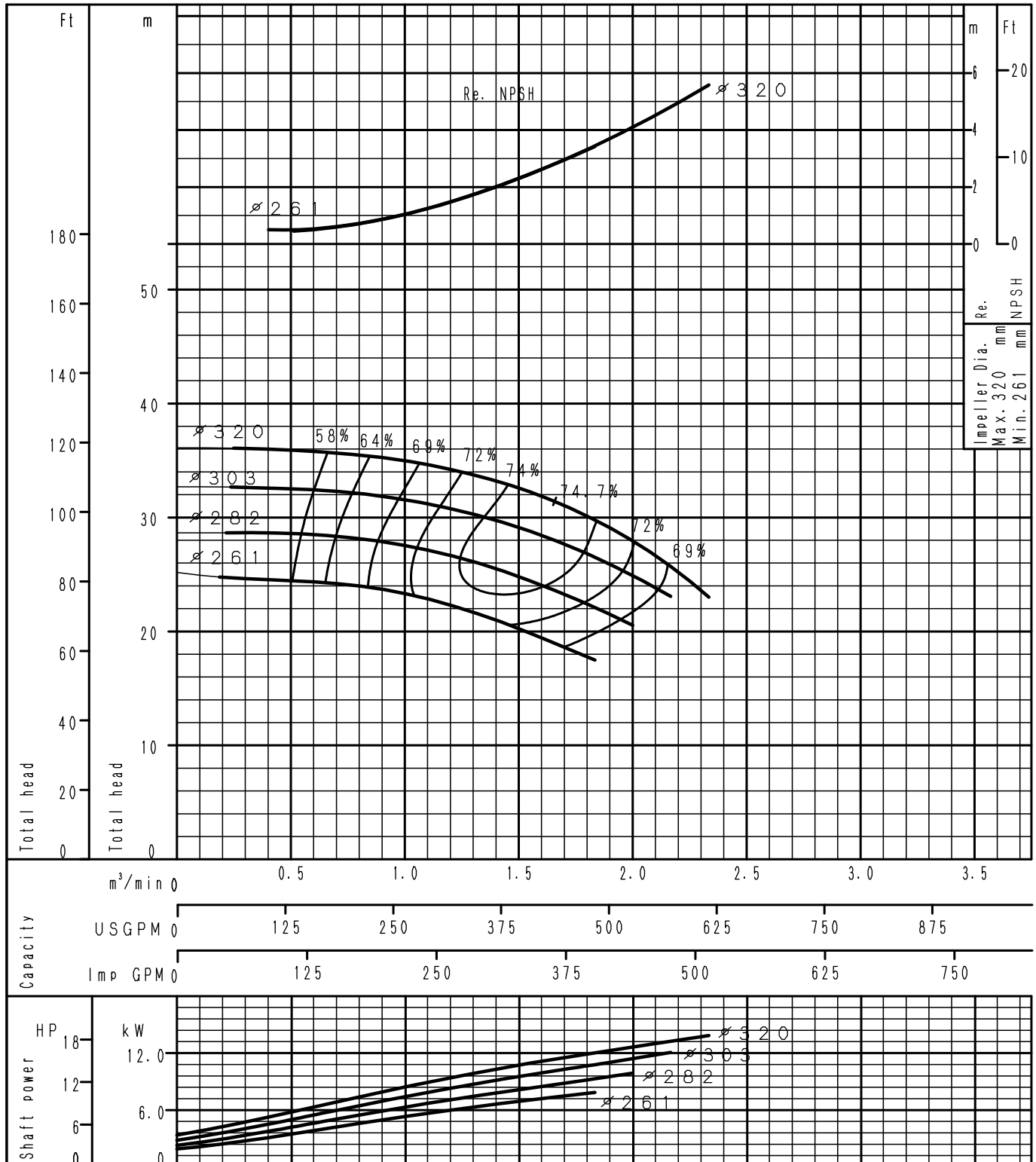
GS65-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

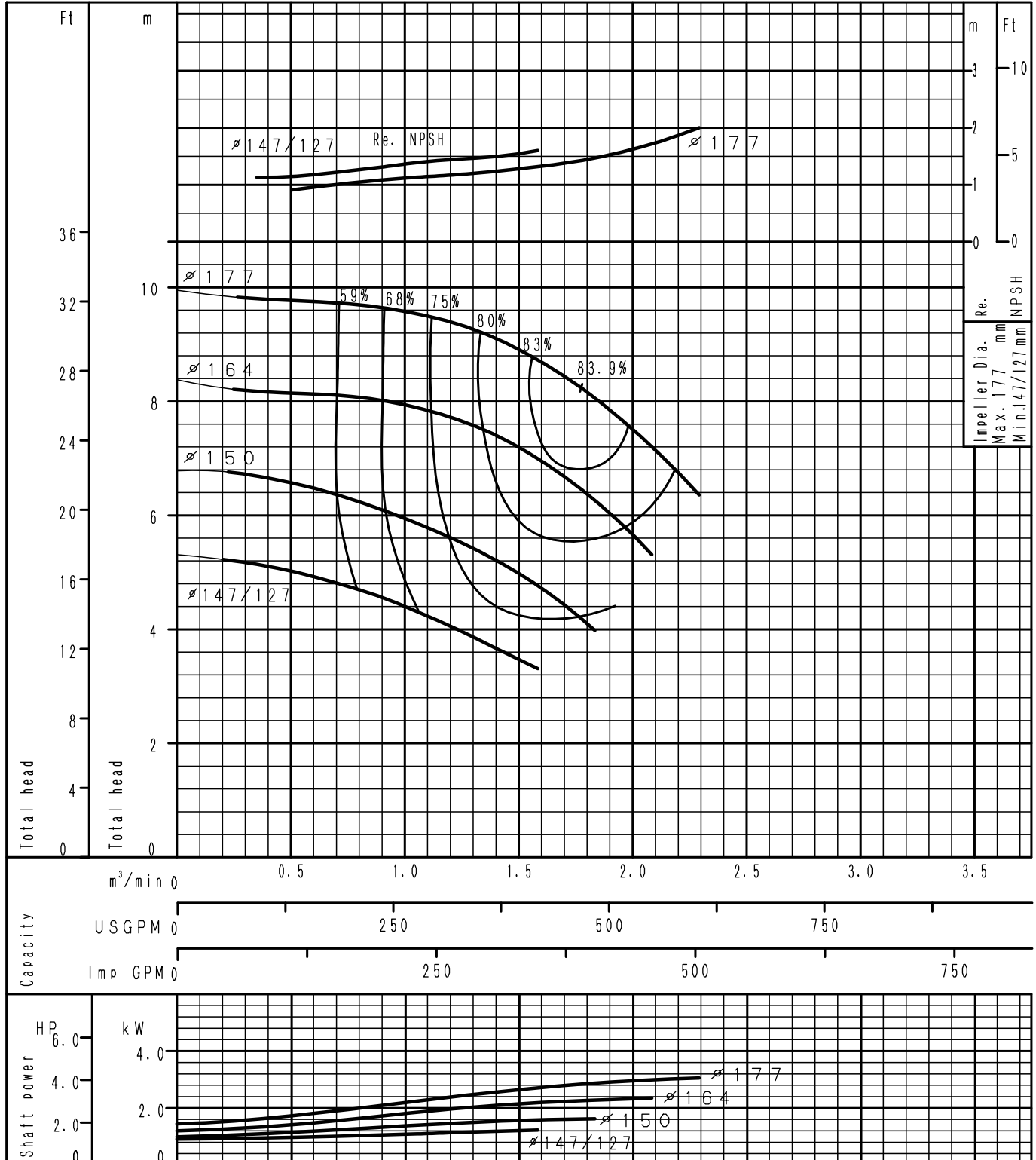
GS65-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

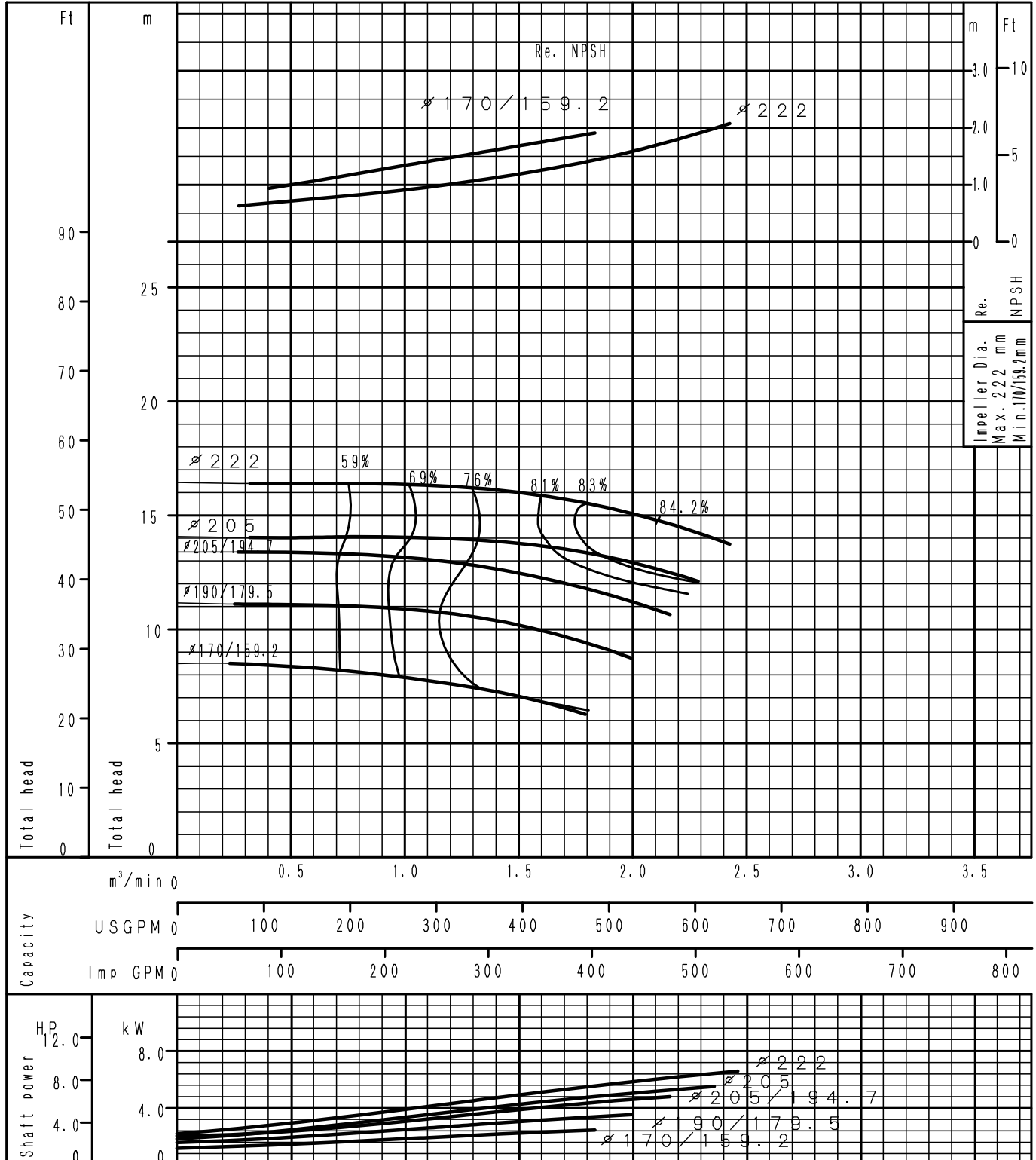
GS80-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

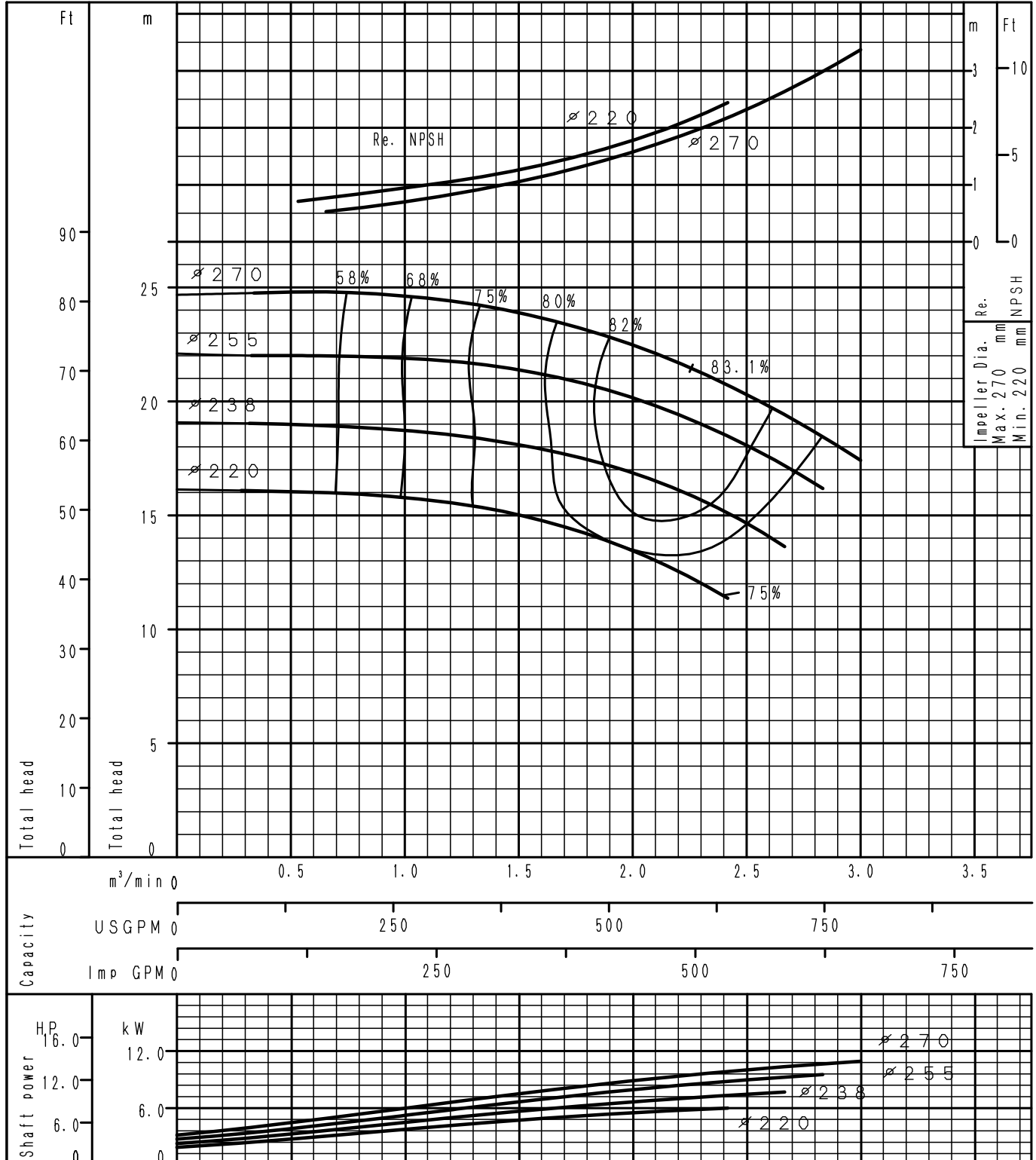
GS80-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

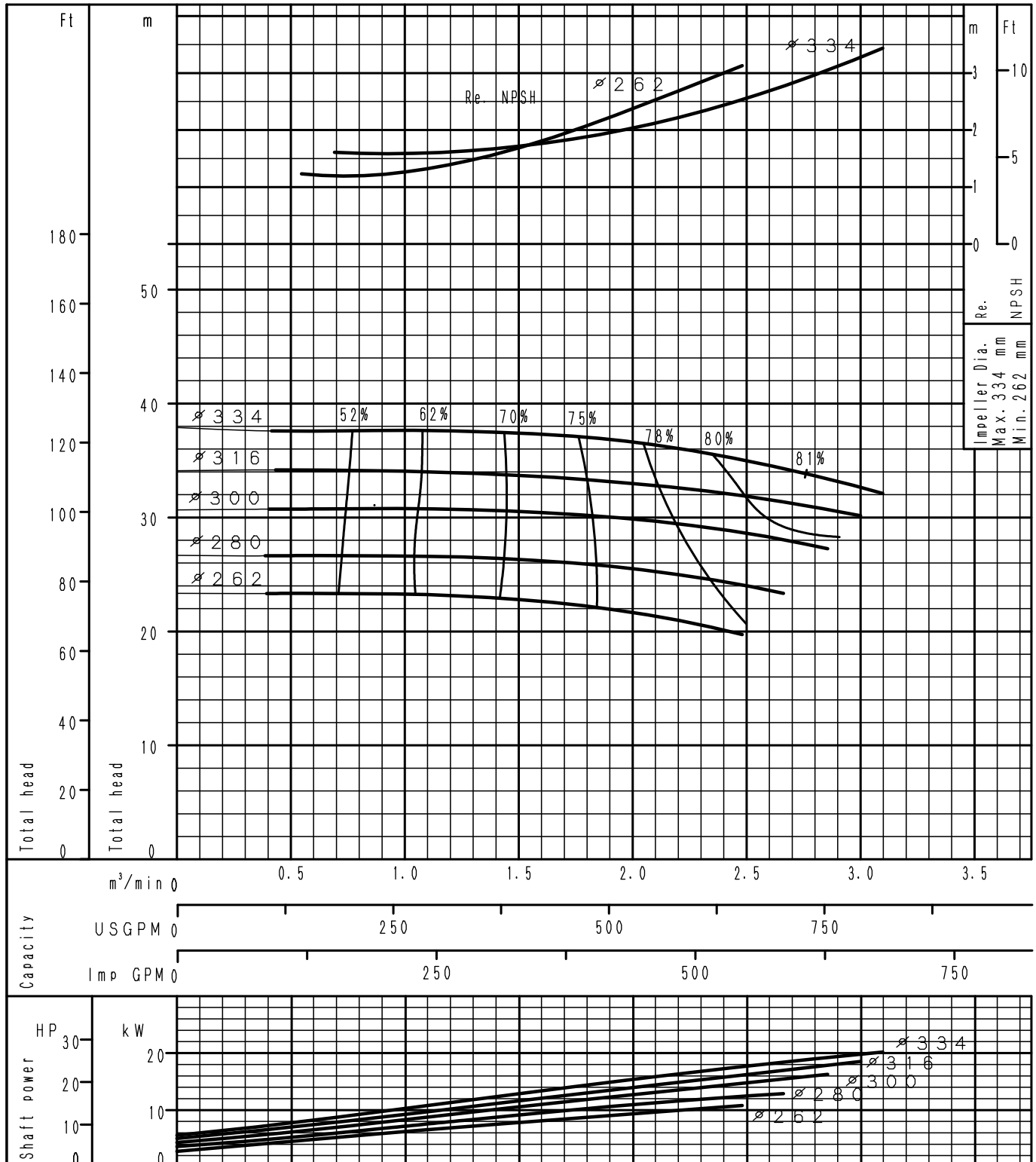
GS80-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

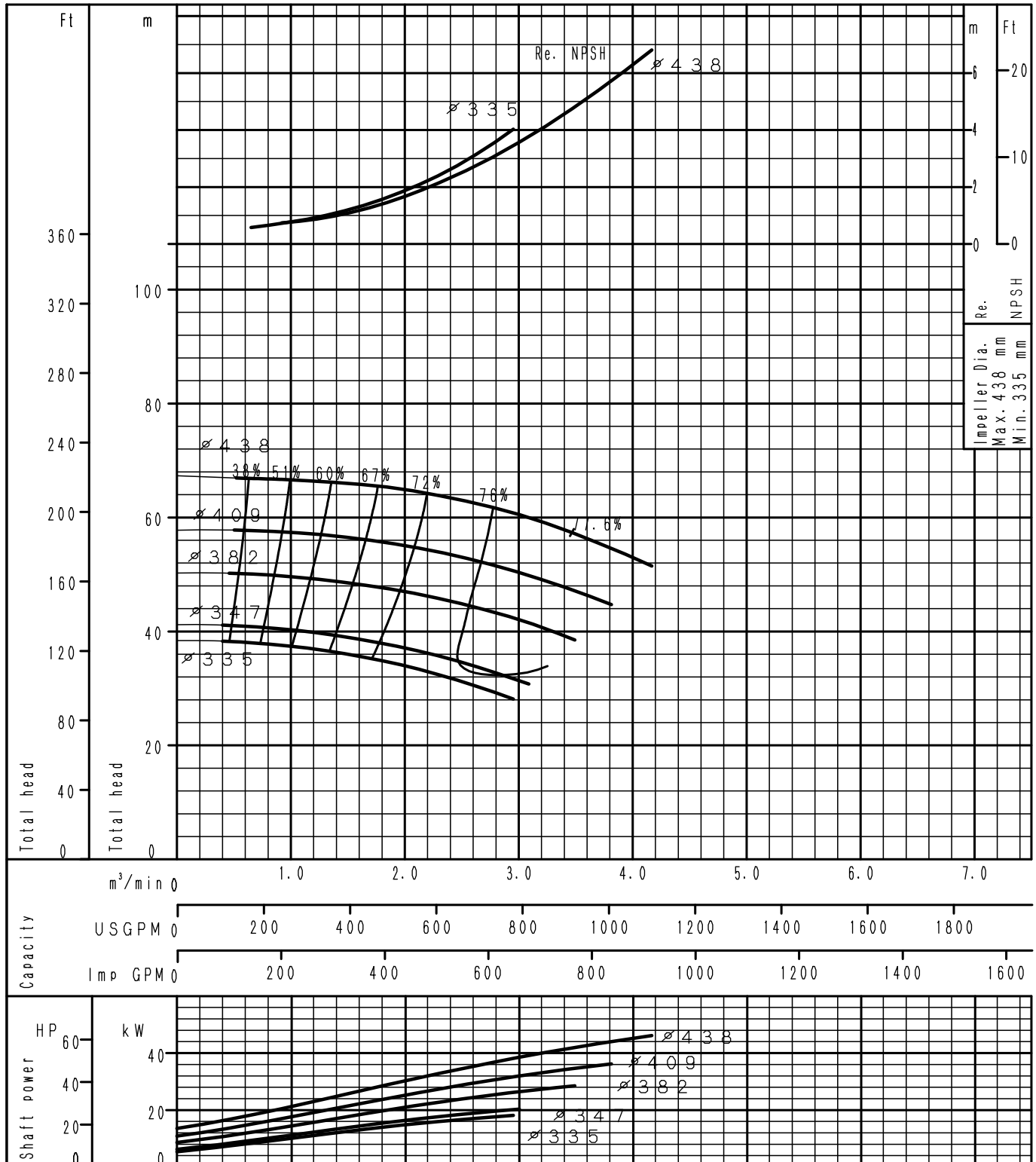
GS80-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

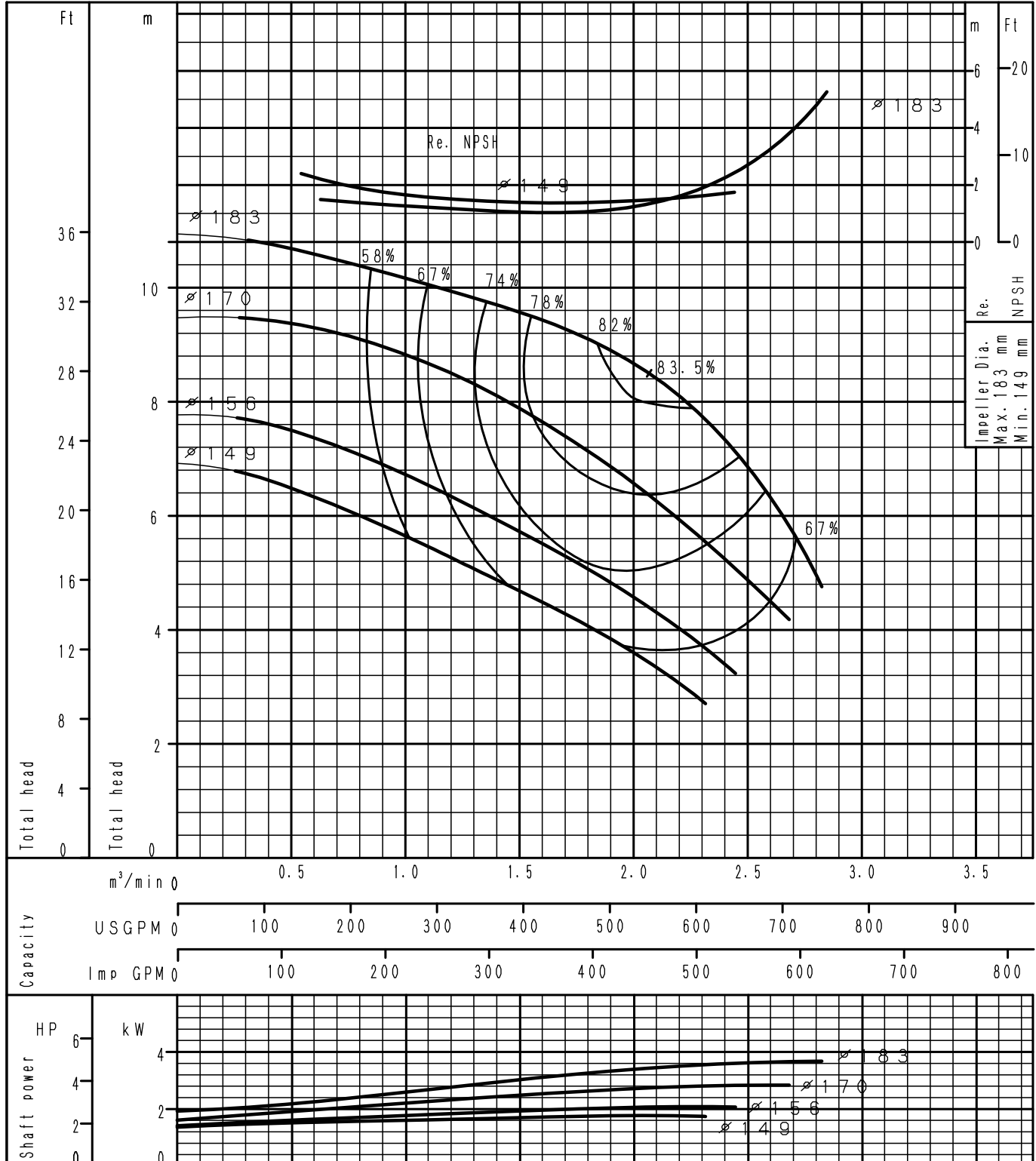
<h1 style="margin: 0;">GS80-400</h1>	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

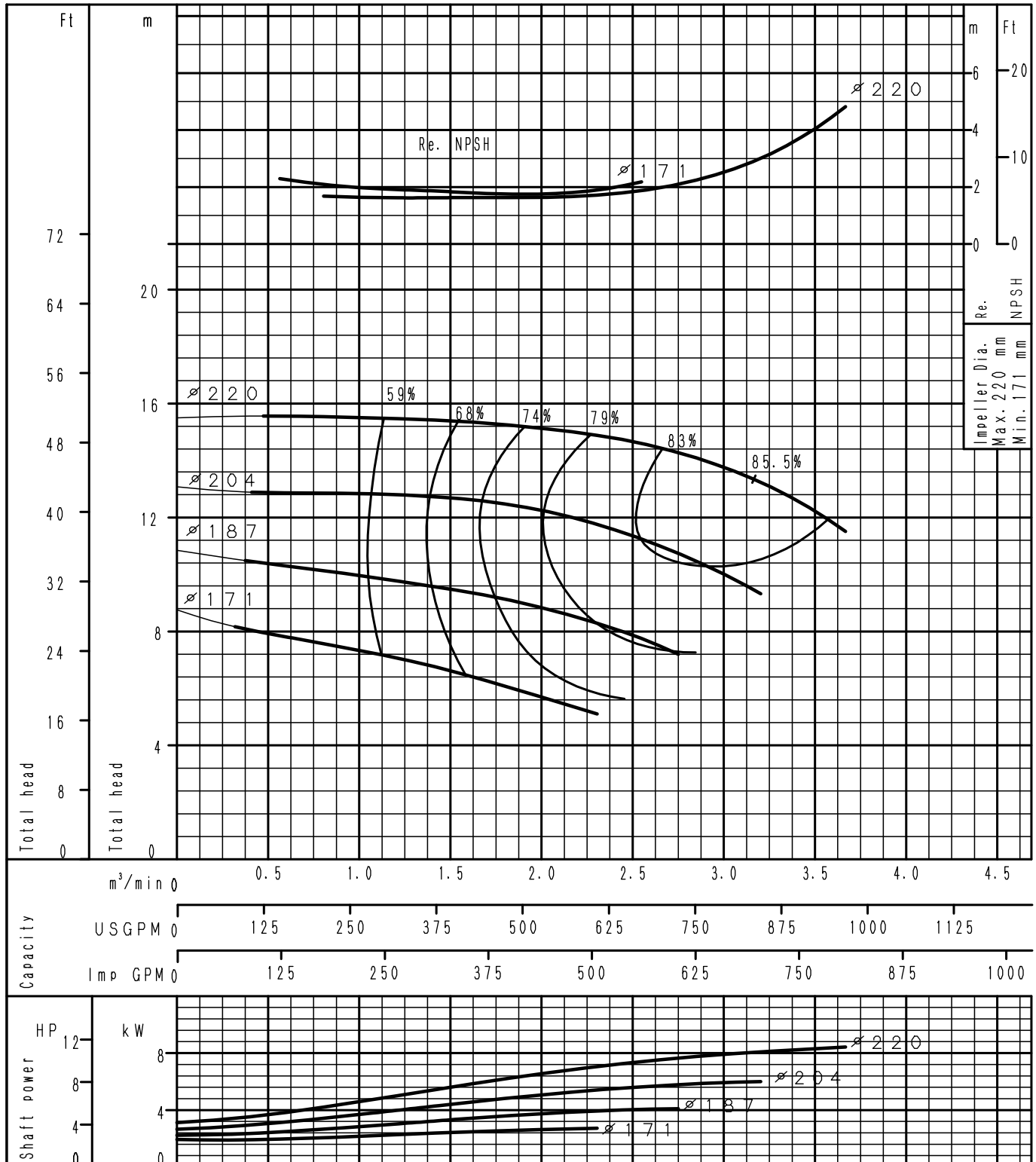
GS100-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

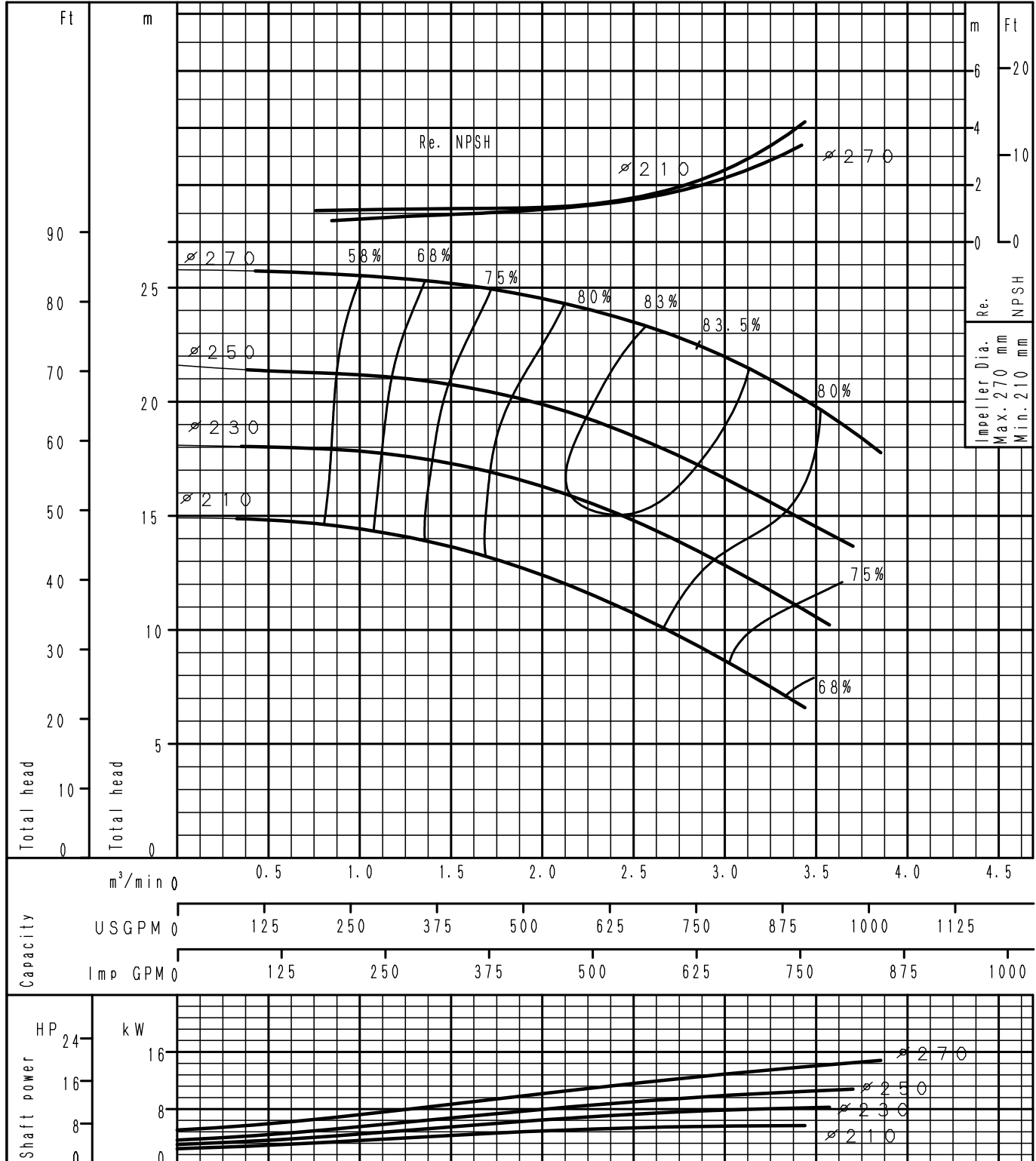
GS100-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

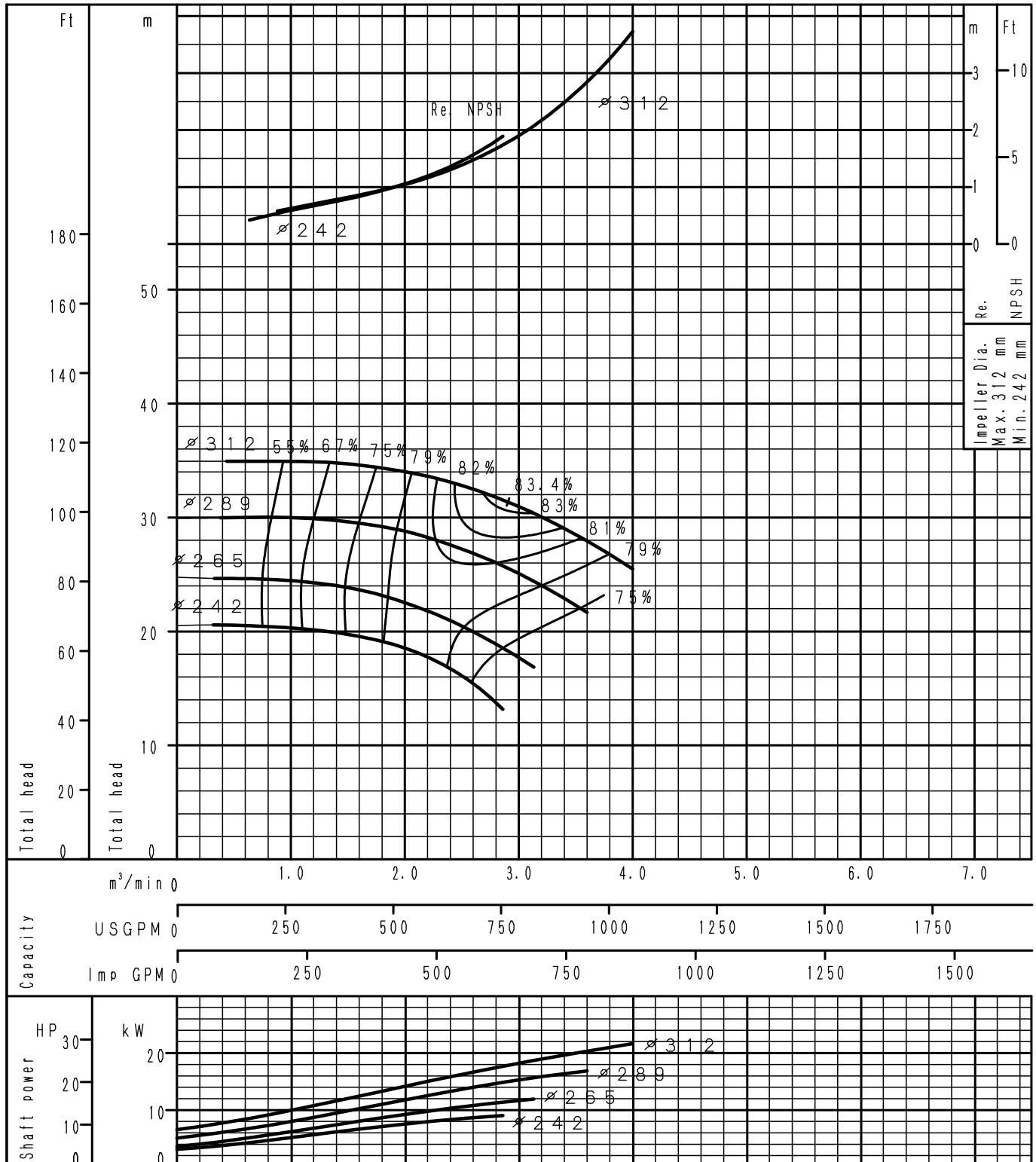
GS100-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

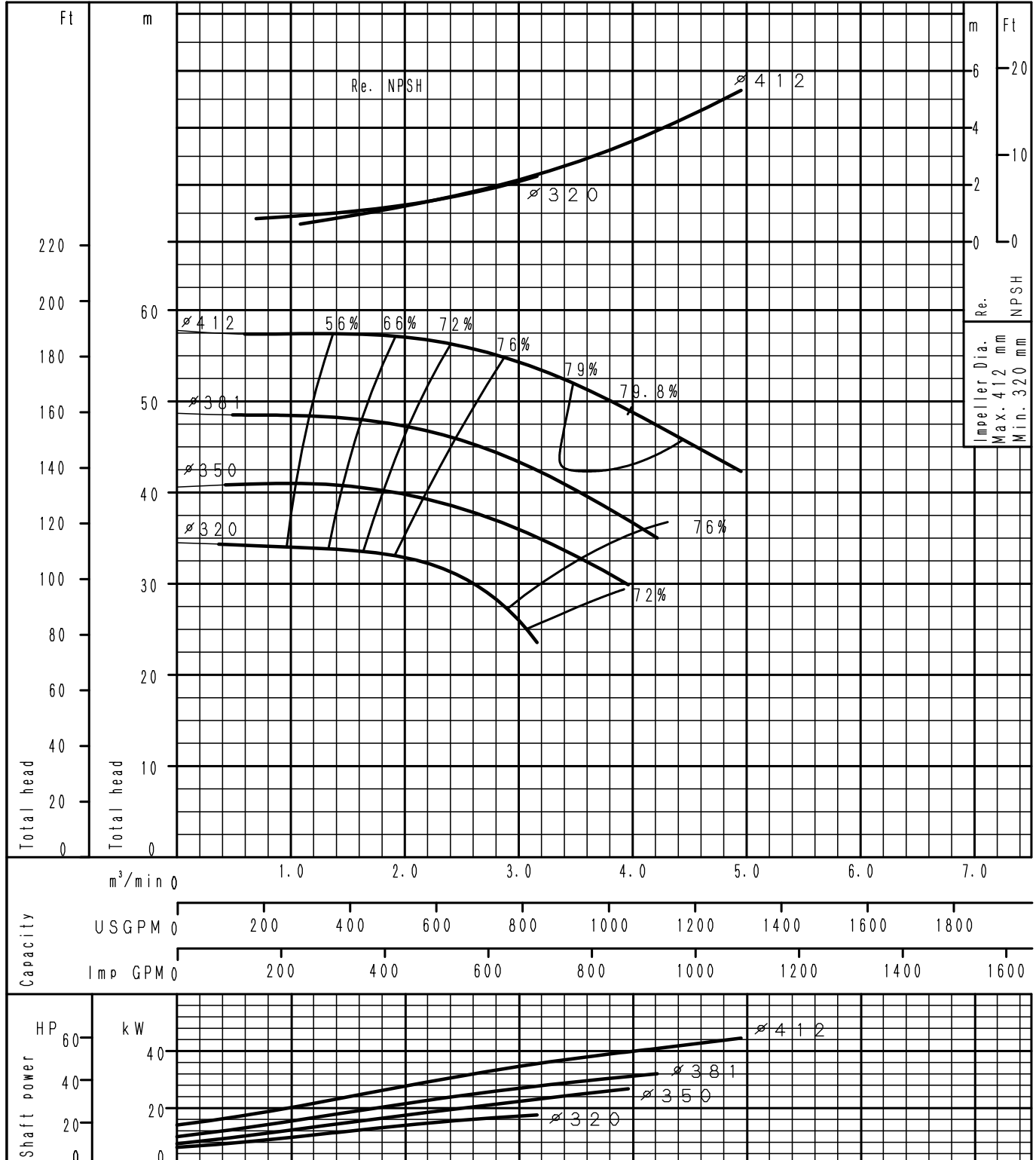
GS100-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

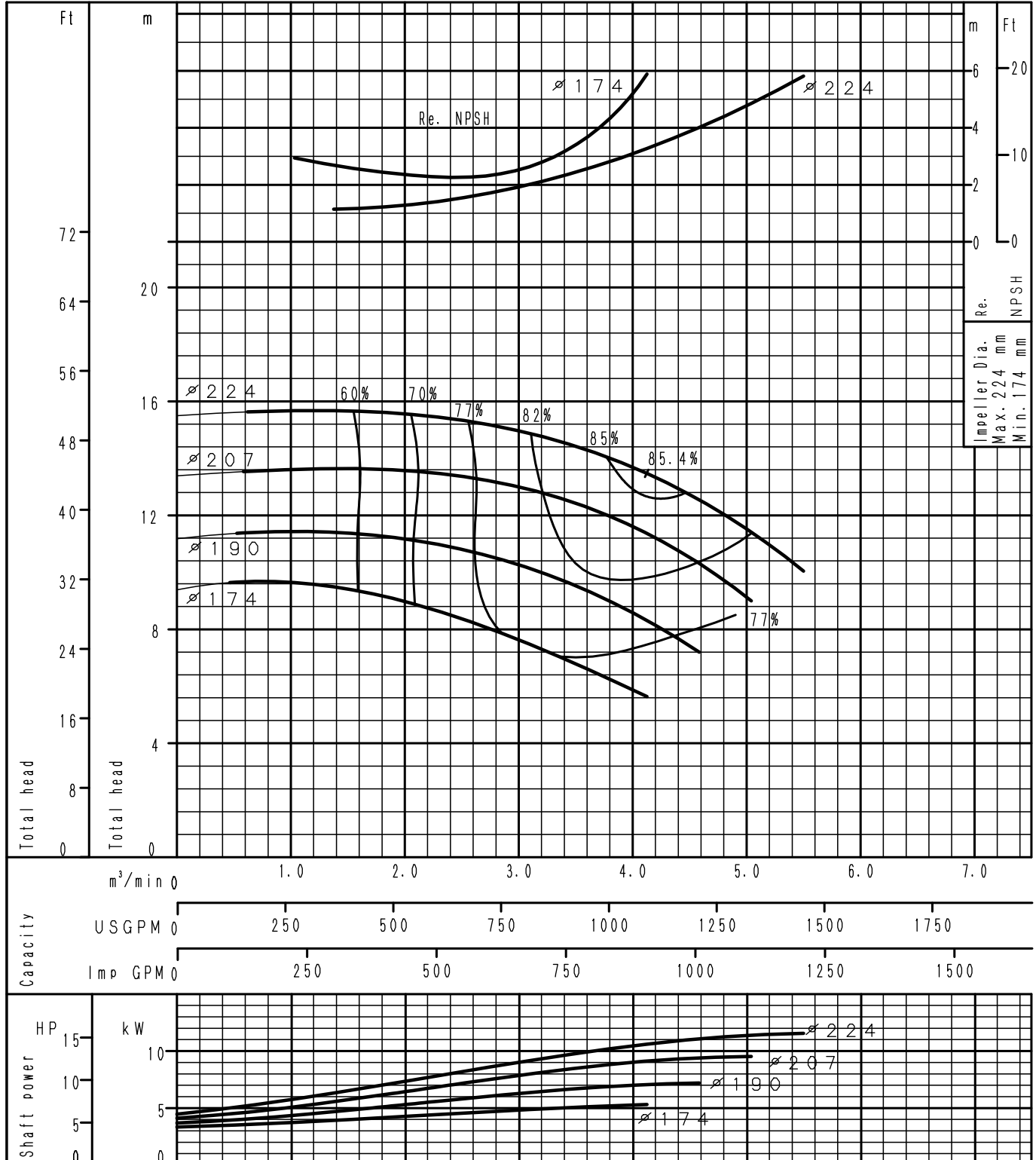
GS100-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

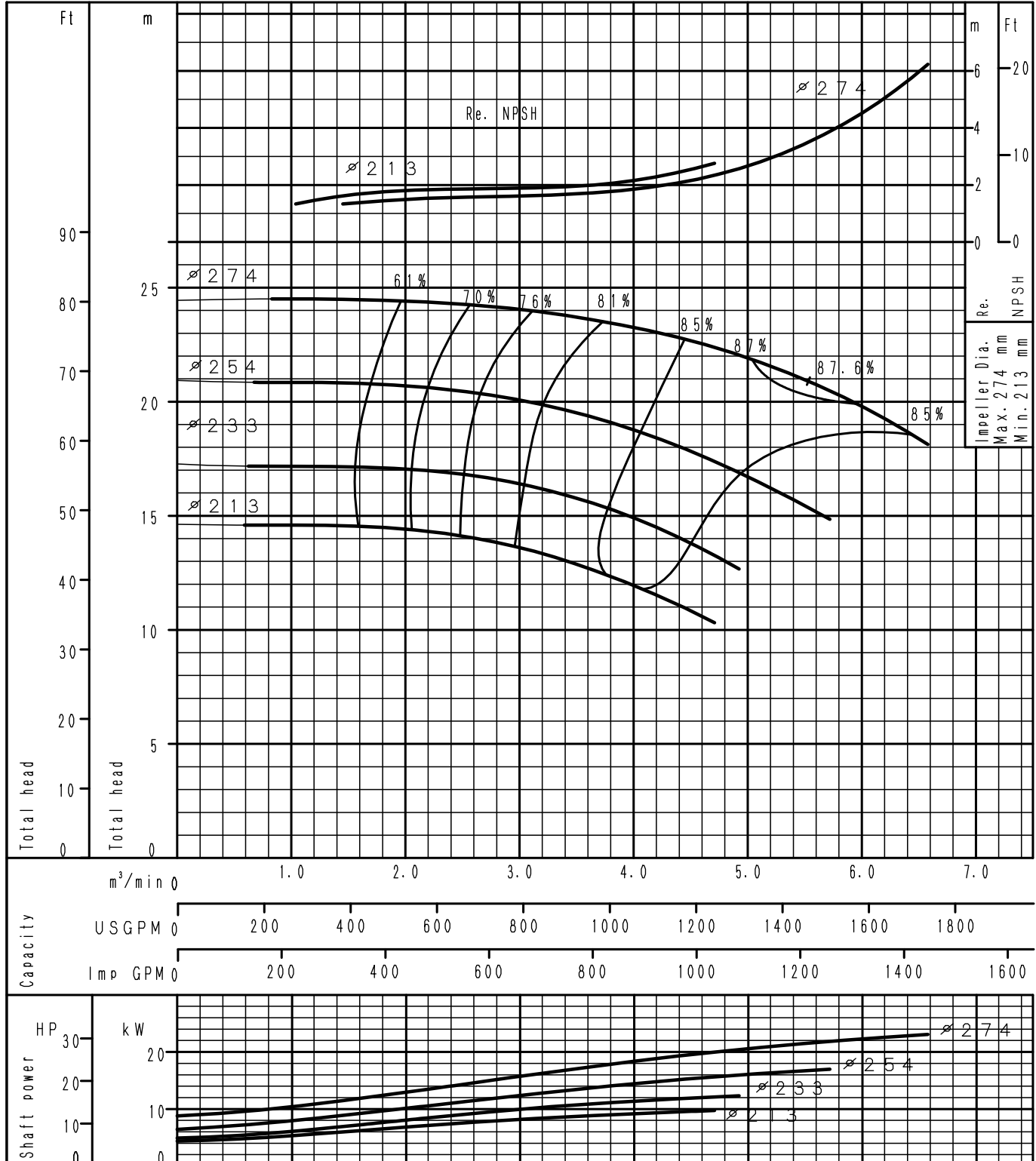
GS125-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

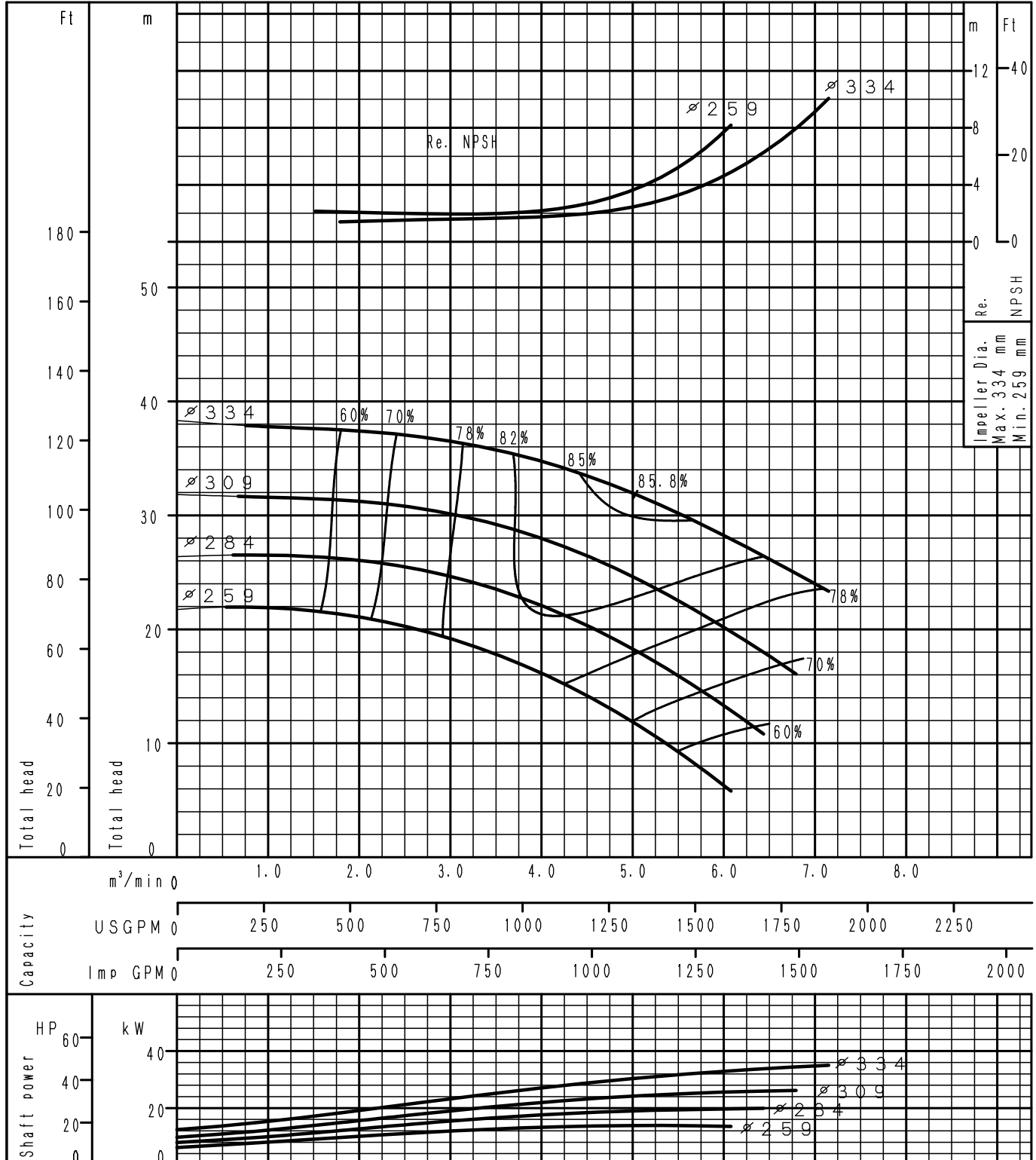
GS125-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

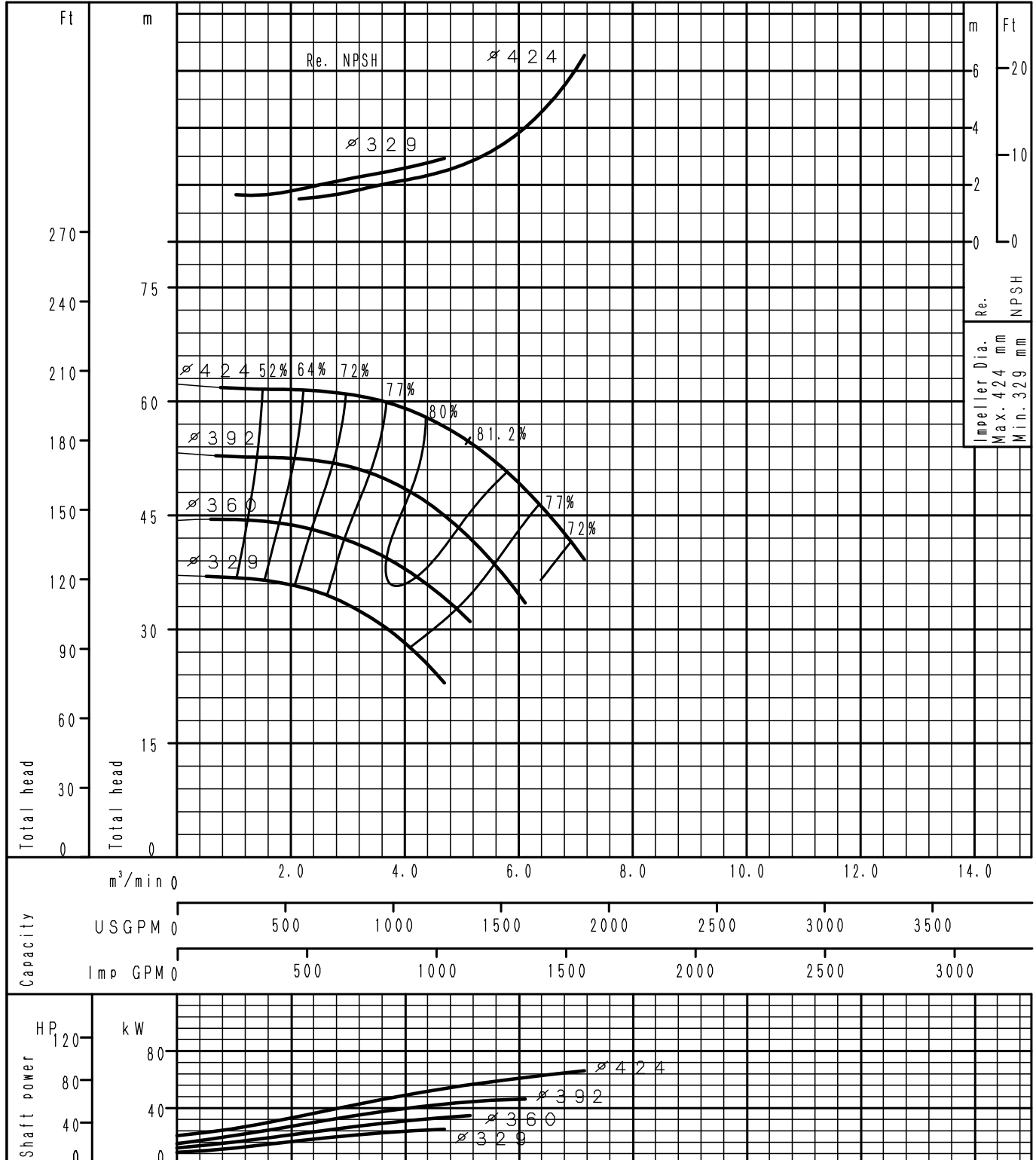
GS125-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

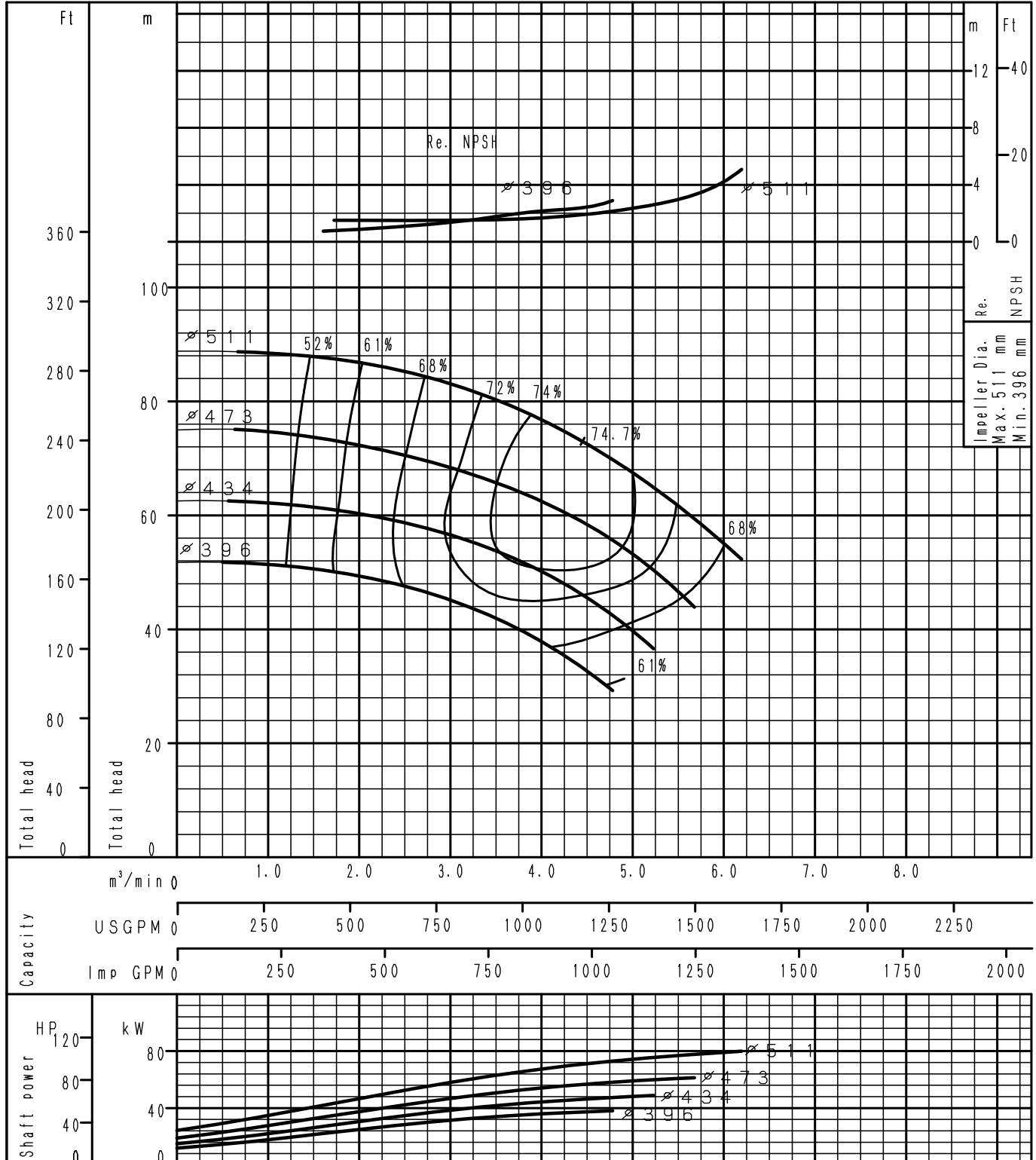
GS125-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

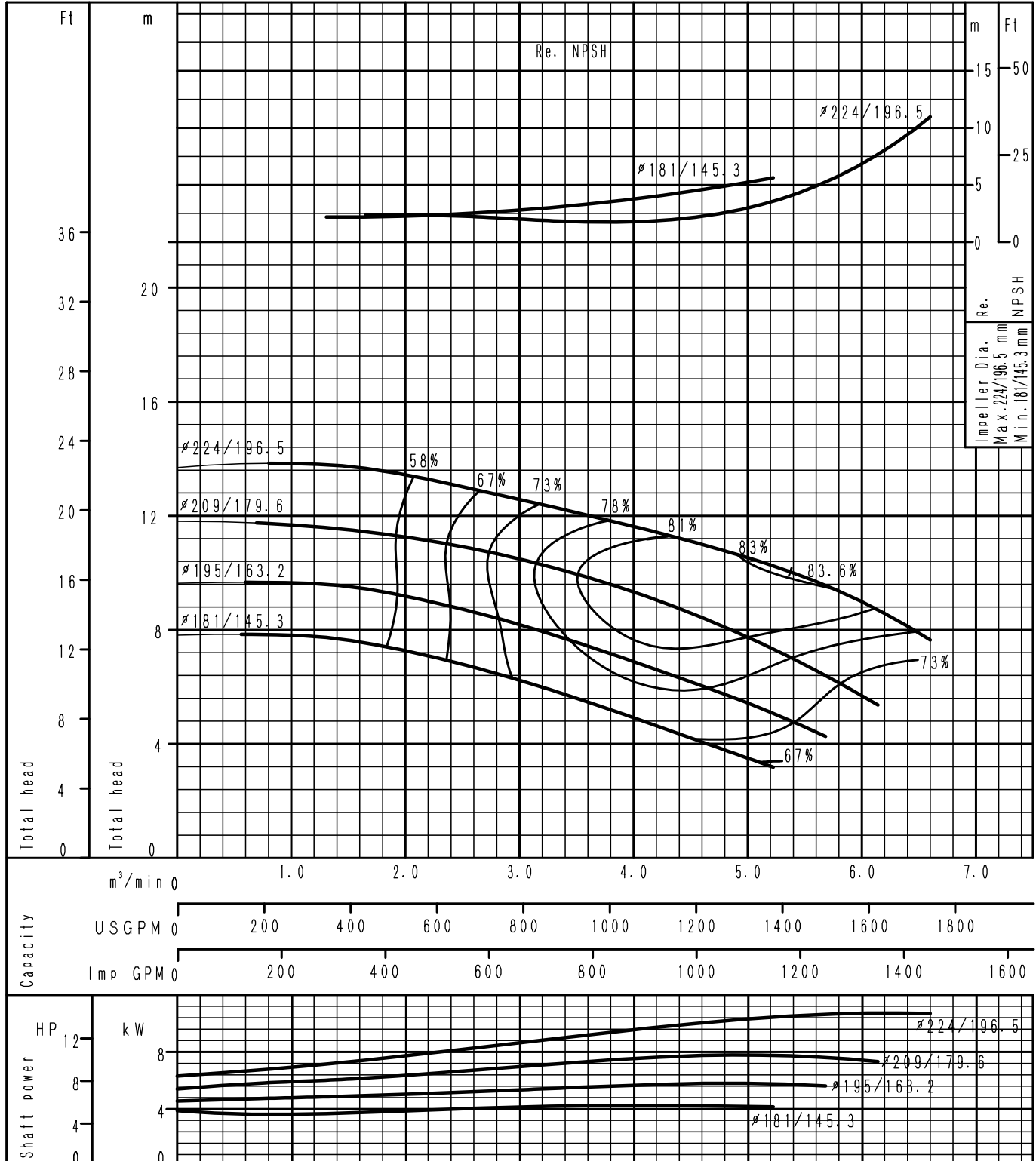
GS125-500	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

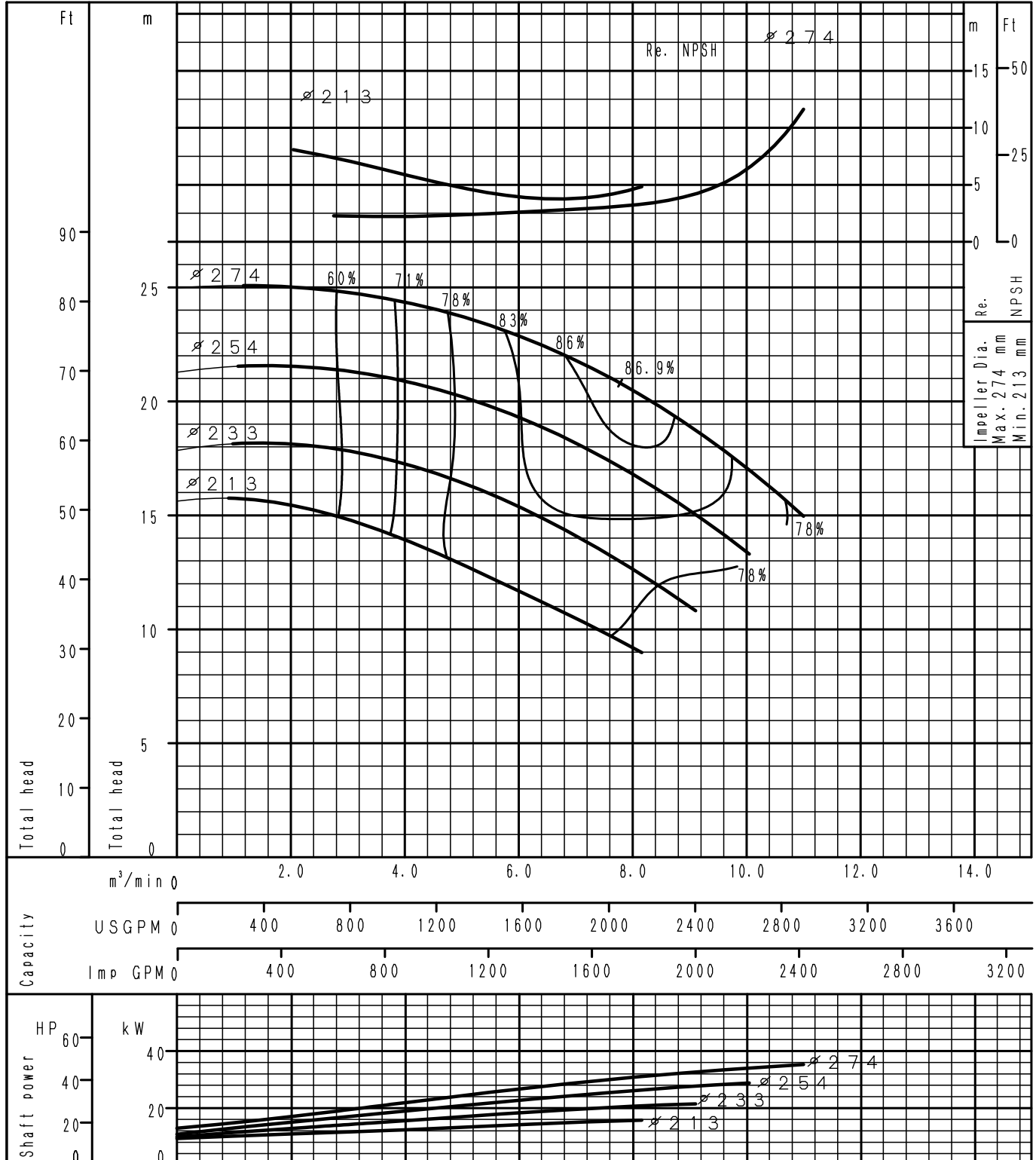
GS150-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

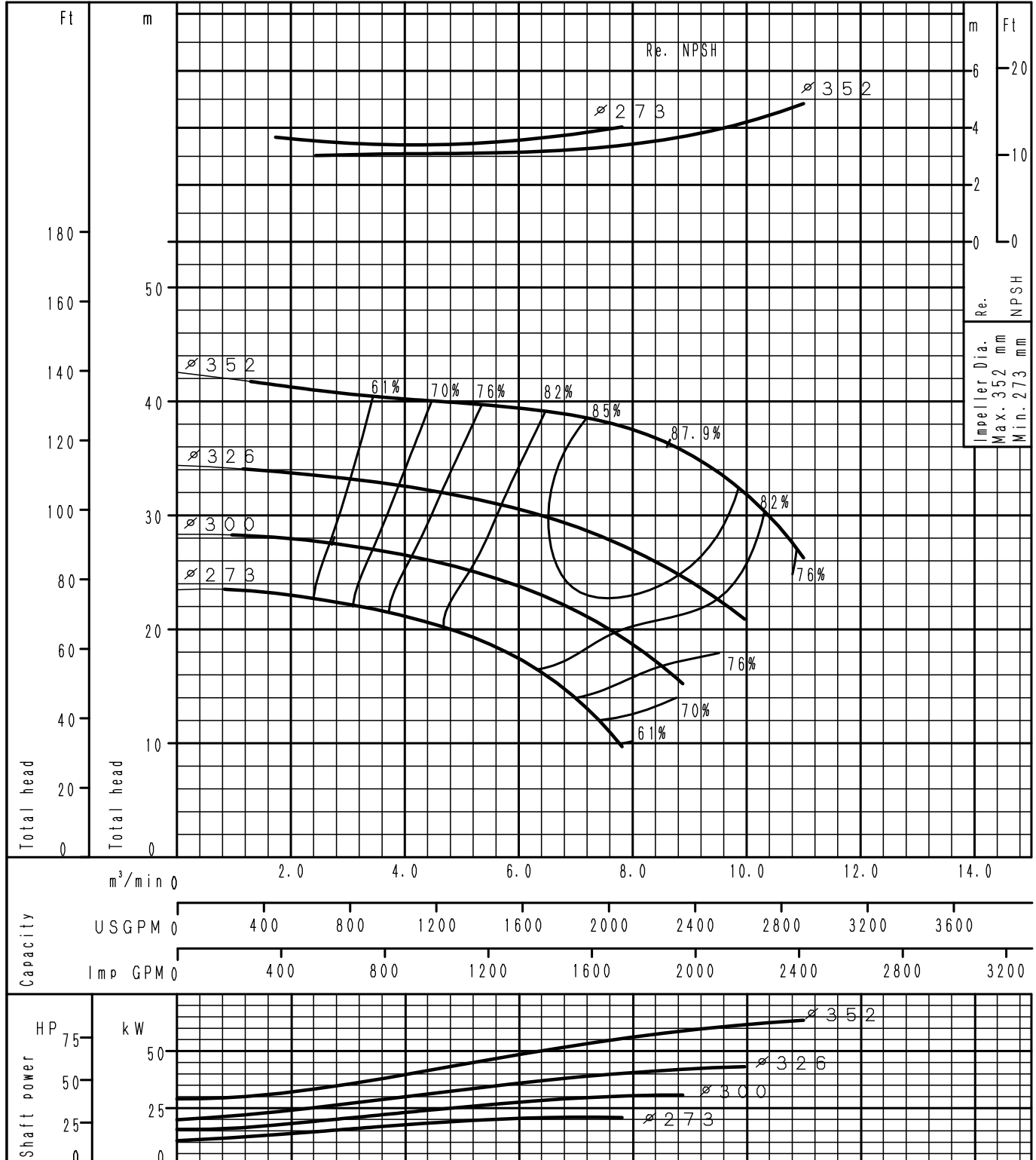
GS150-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

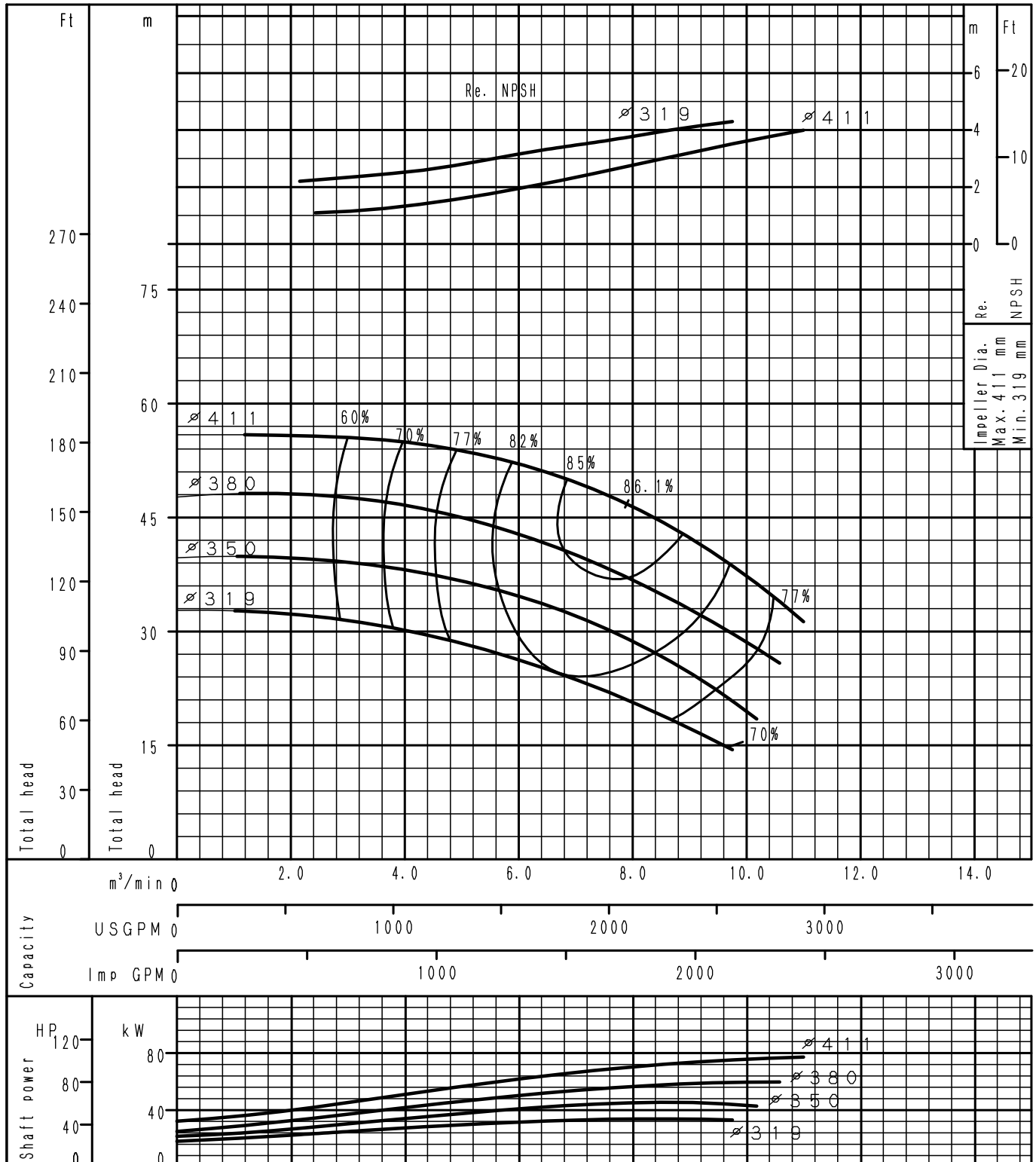
GS150-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

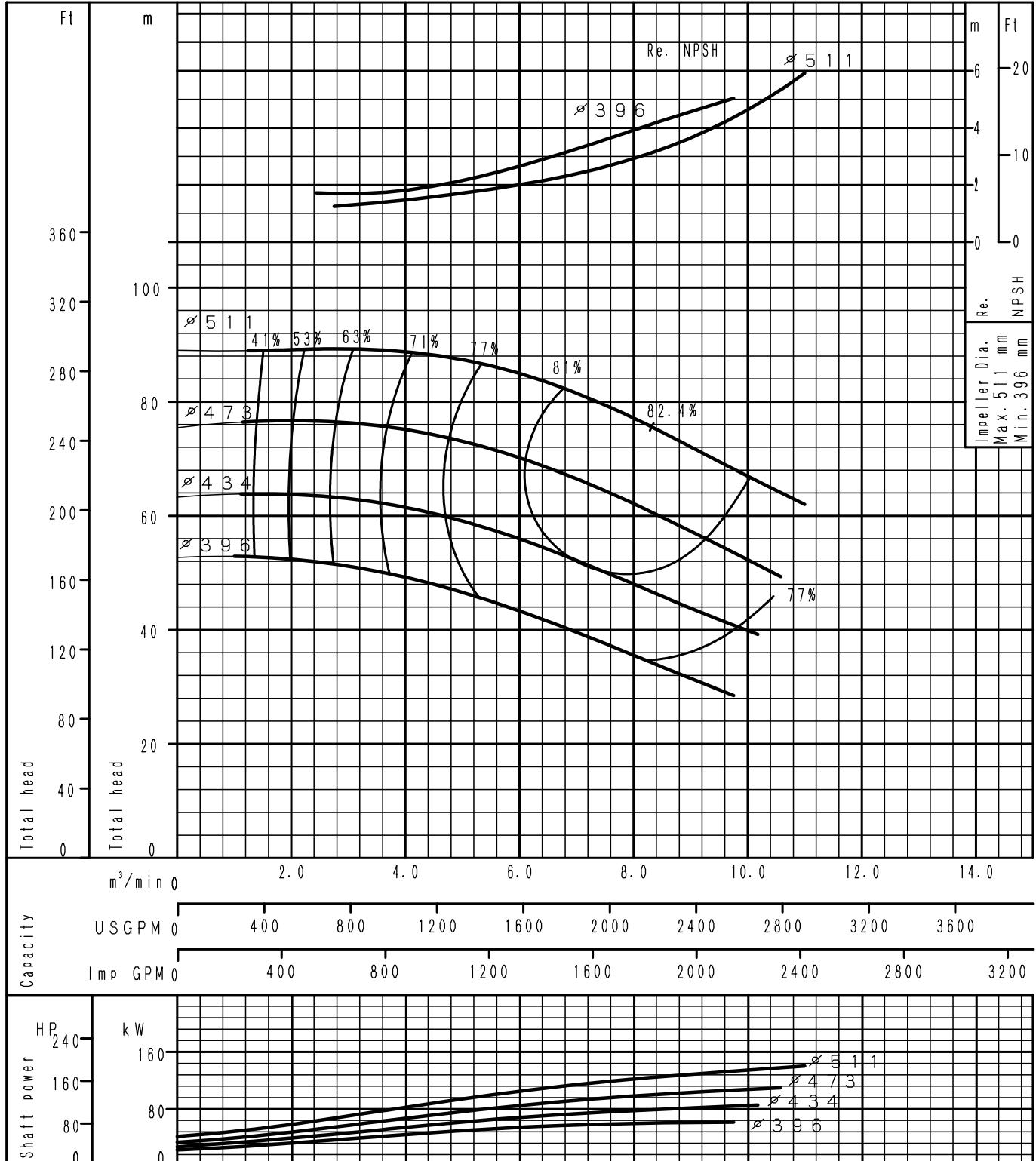
GS150-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

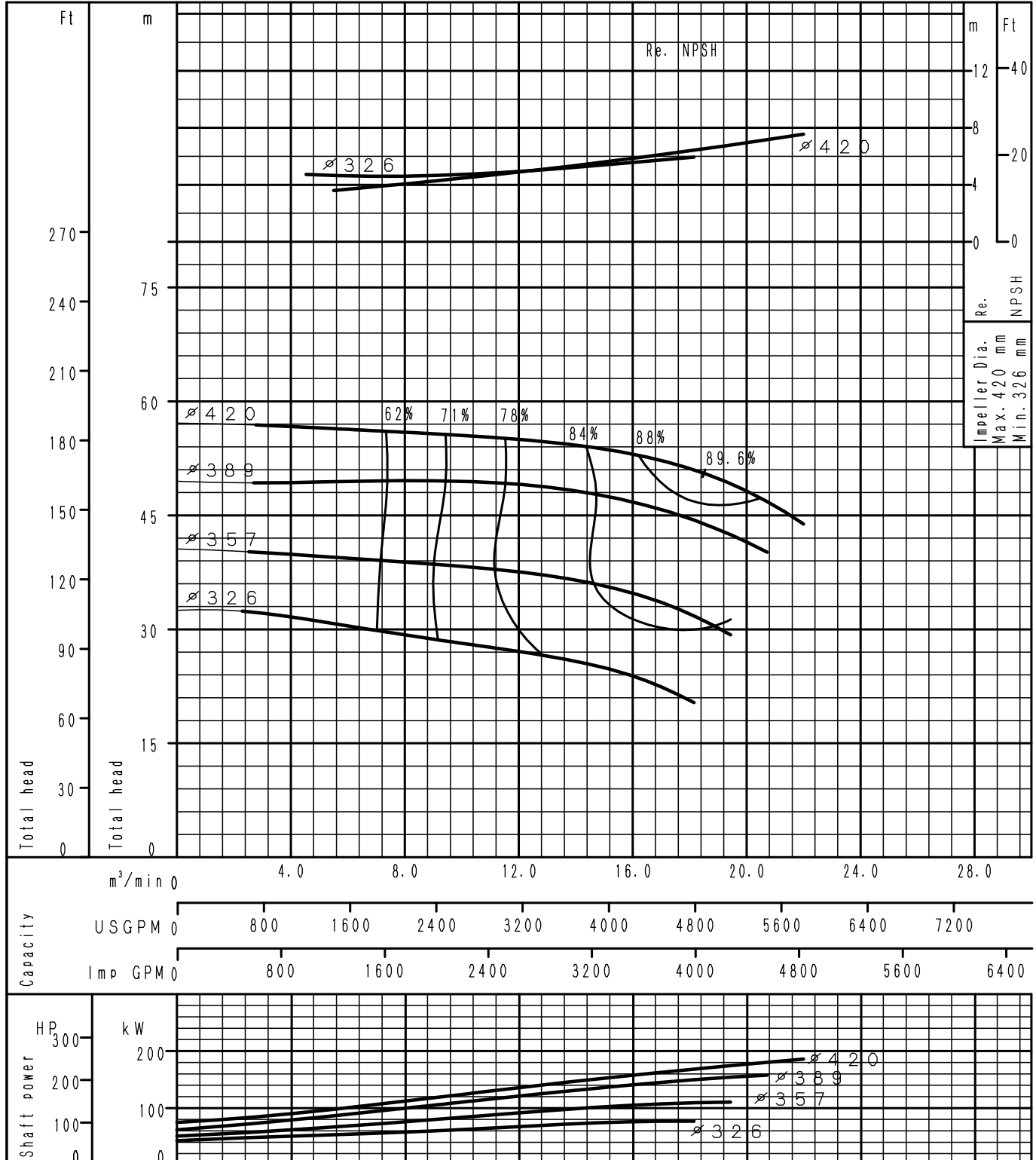
GS150-500	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

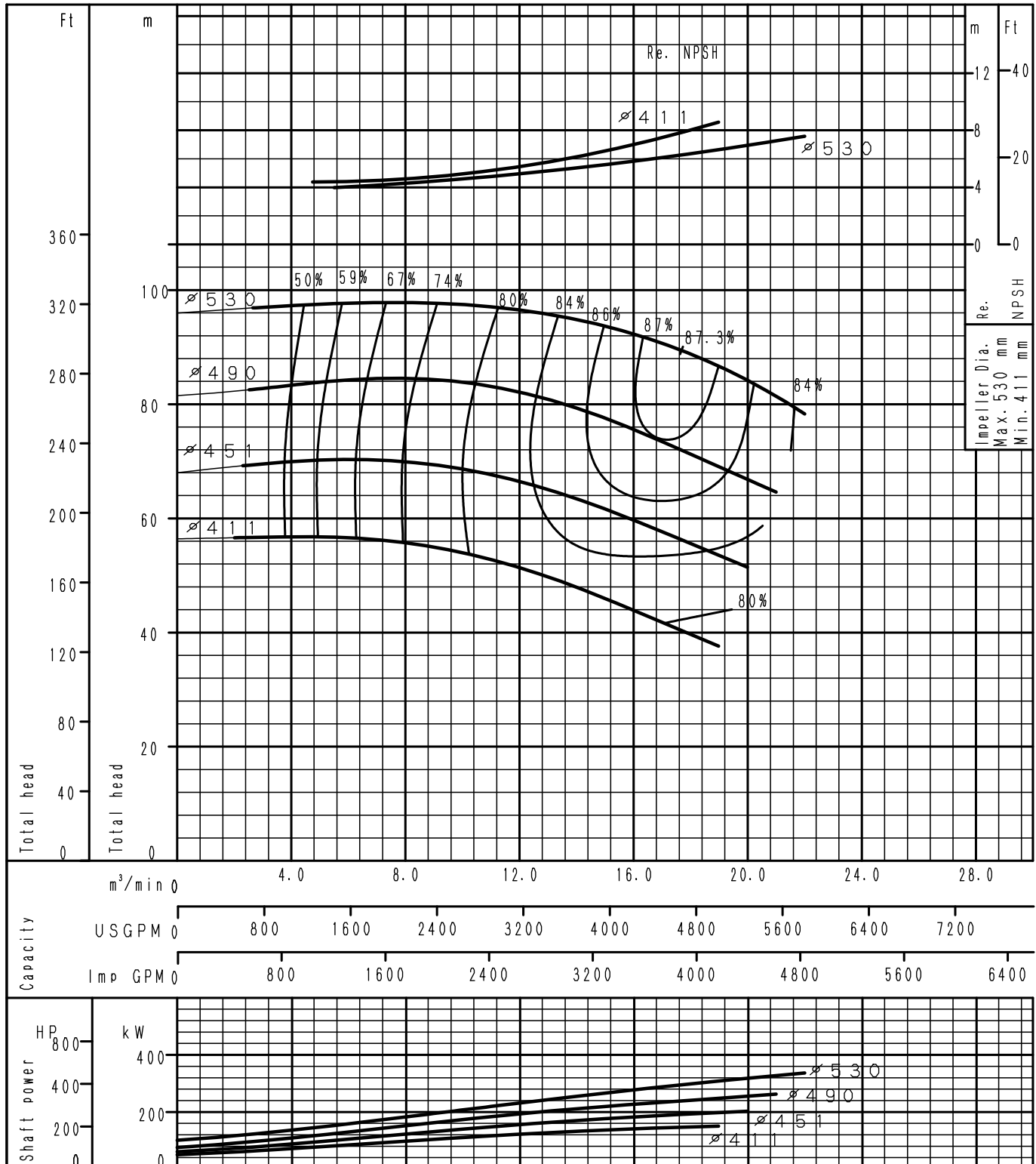
GS200-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

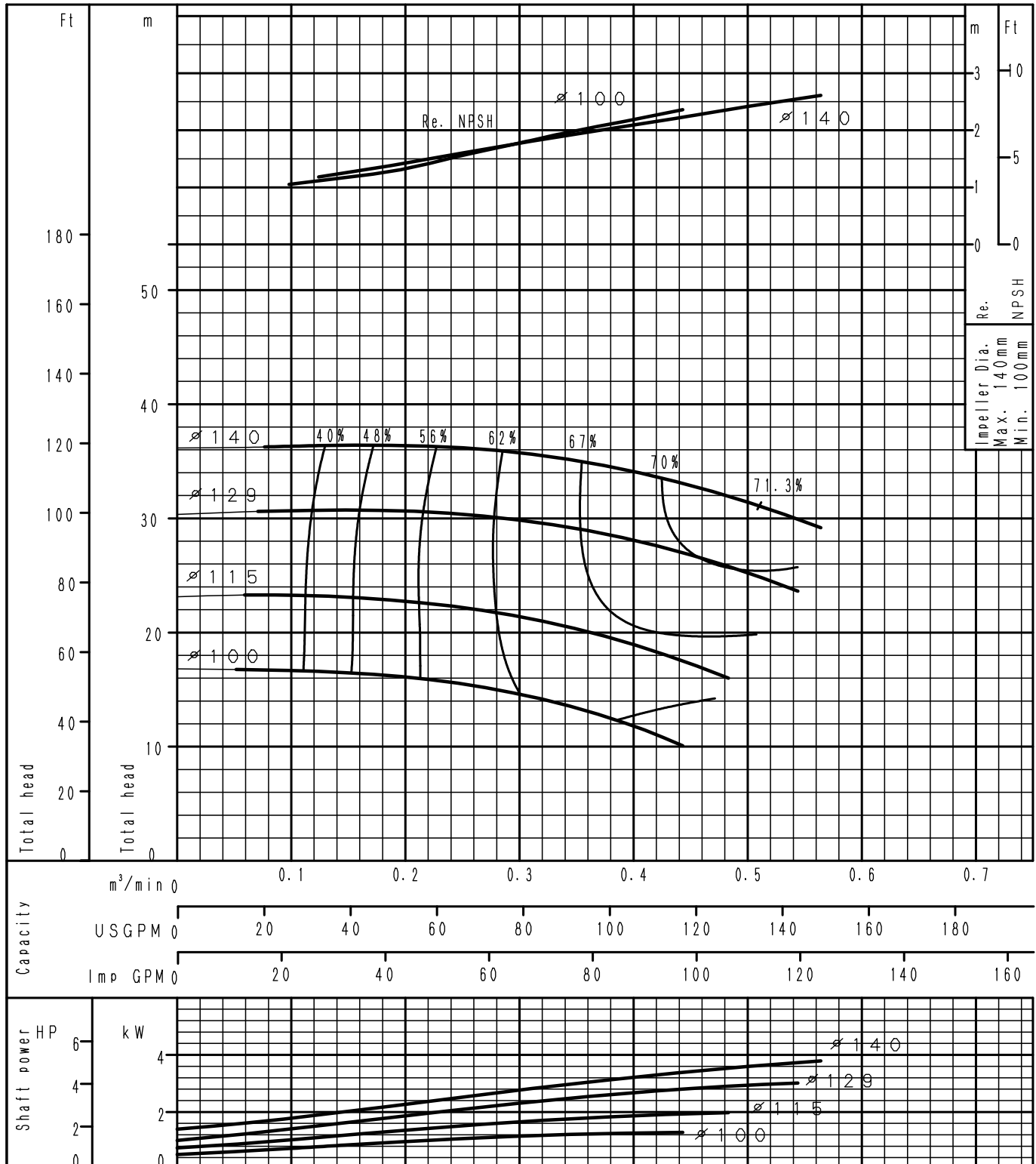
GS200-500	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

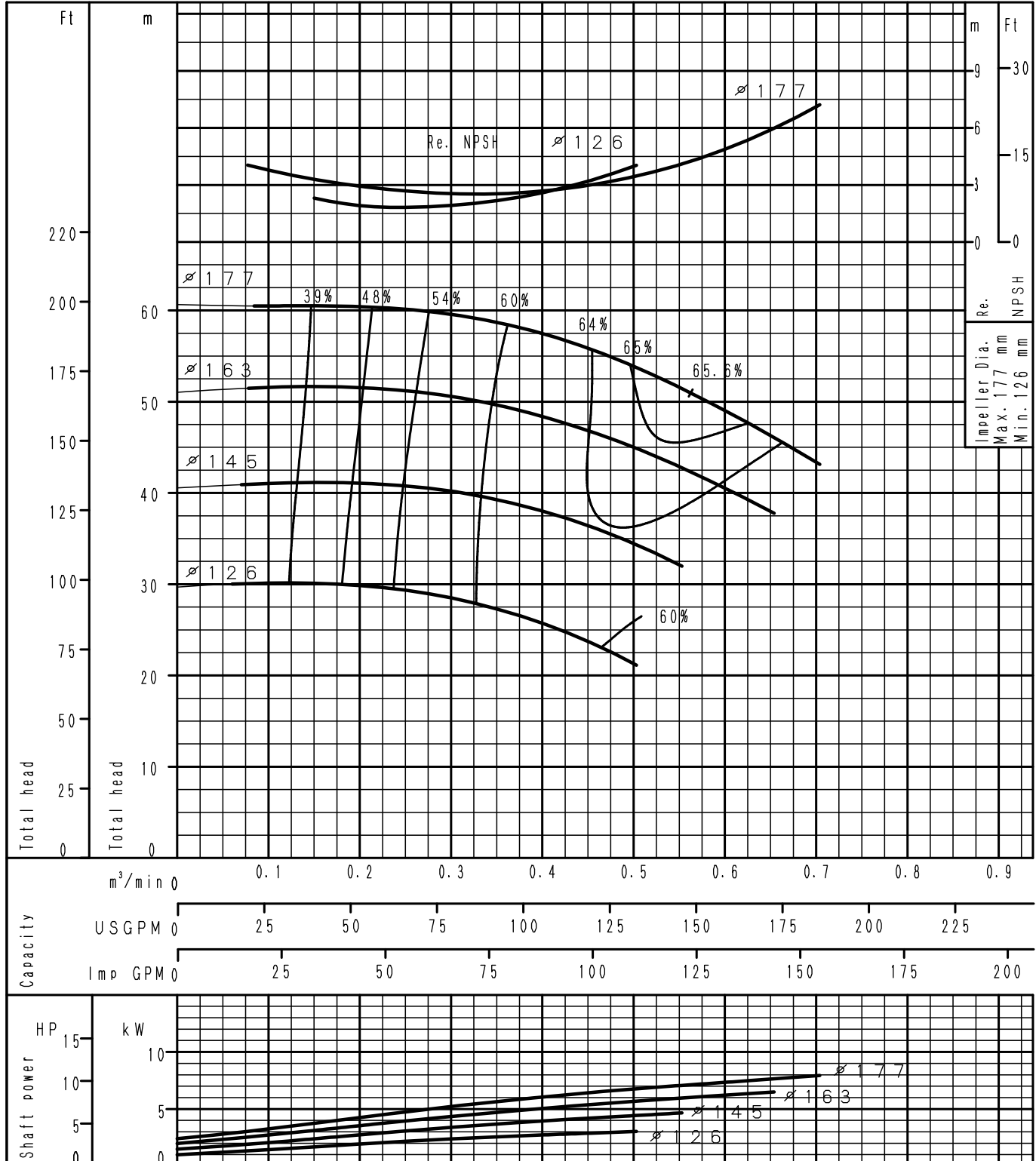
GS32-125.1	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

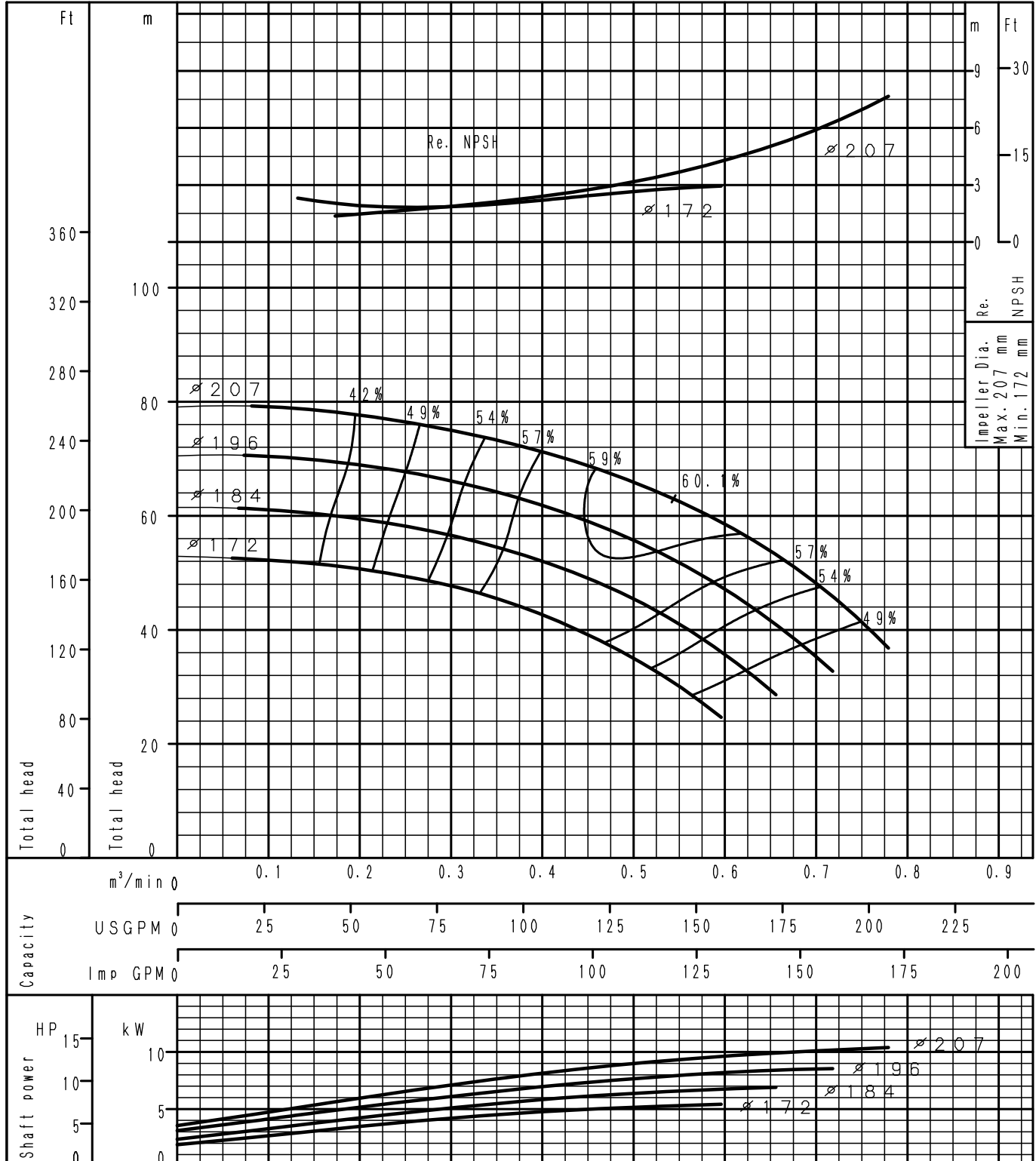
GS32-160.1	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

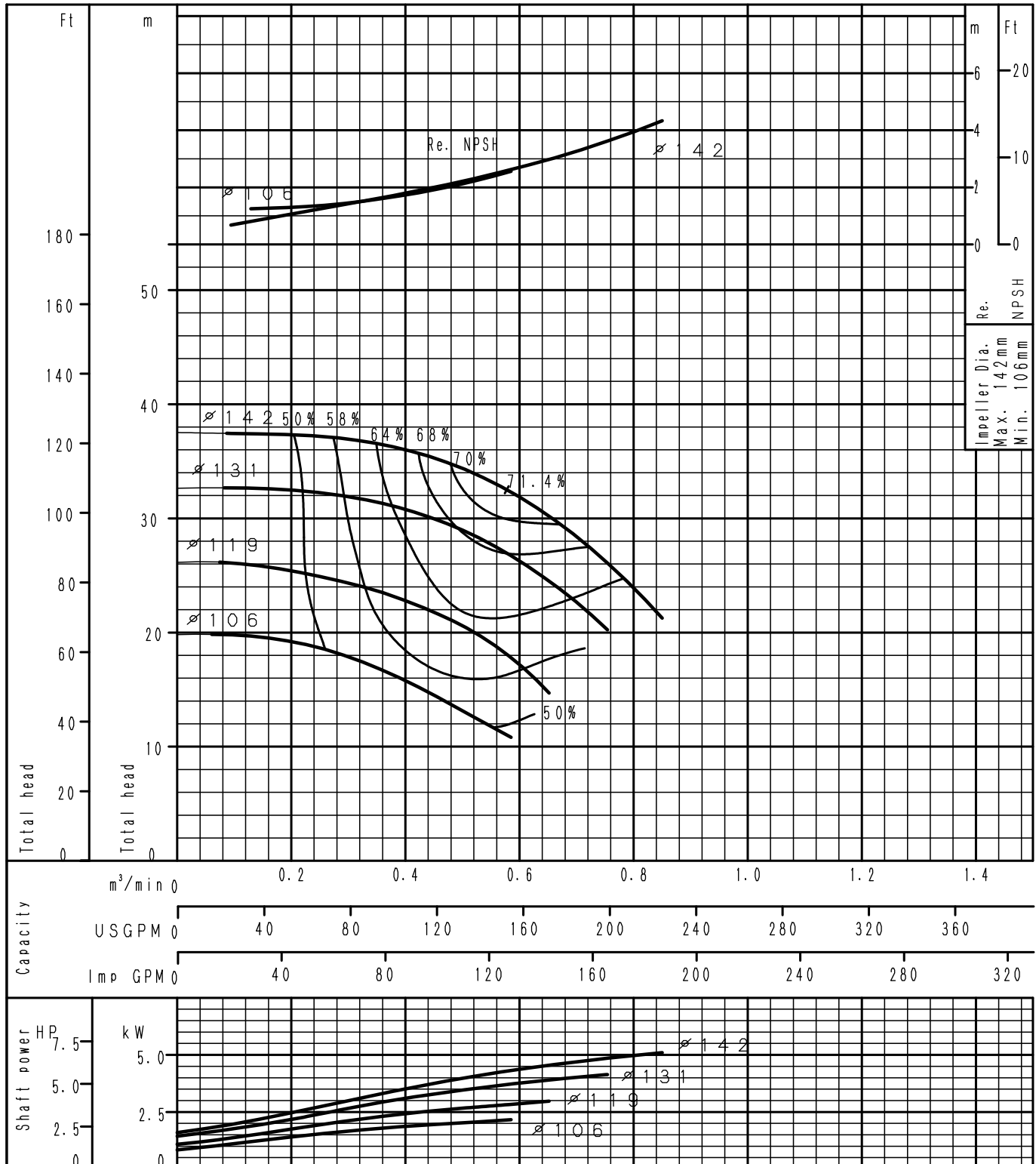
GS32-200.1	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

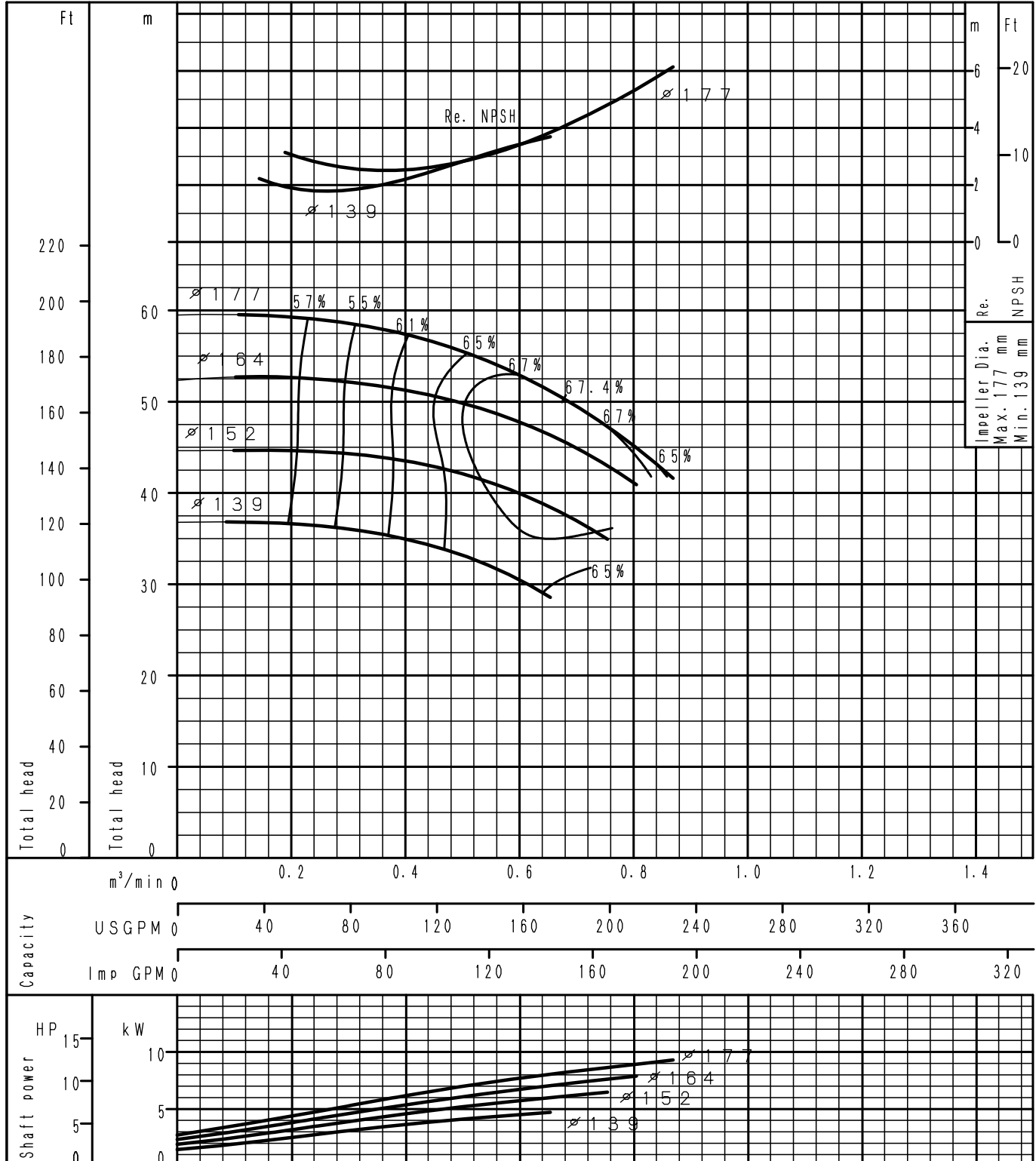
GS32-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

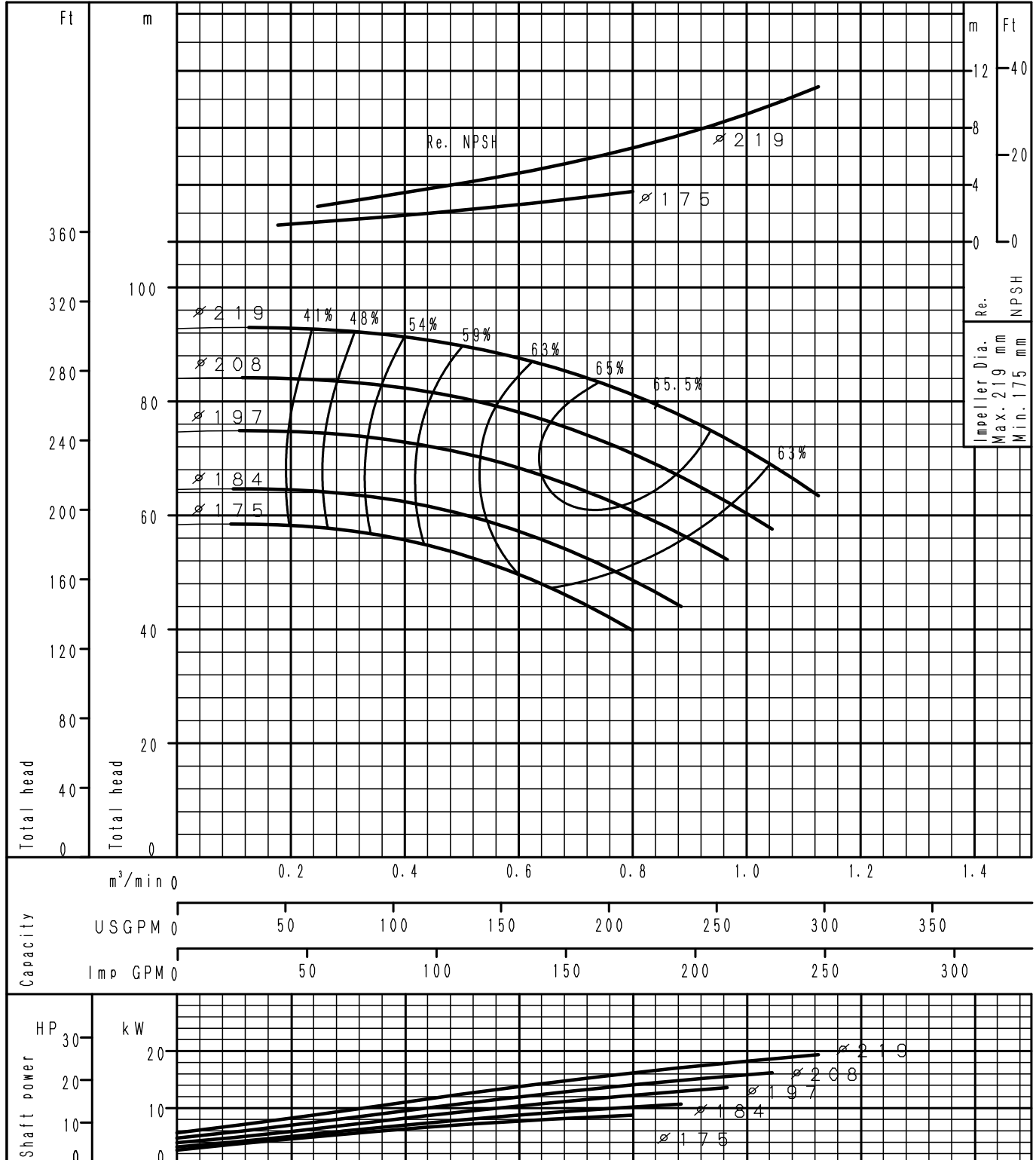
GS32-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

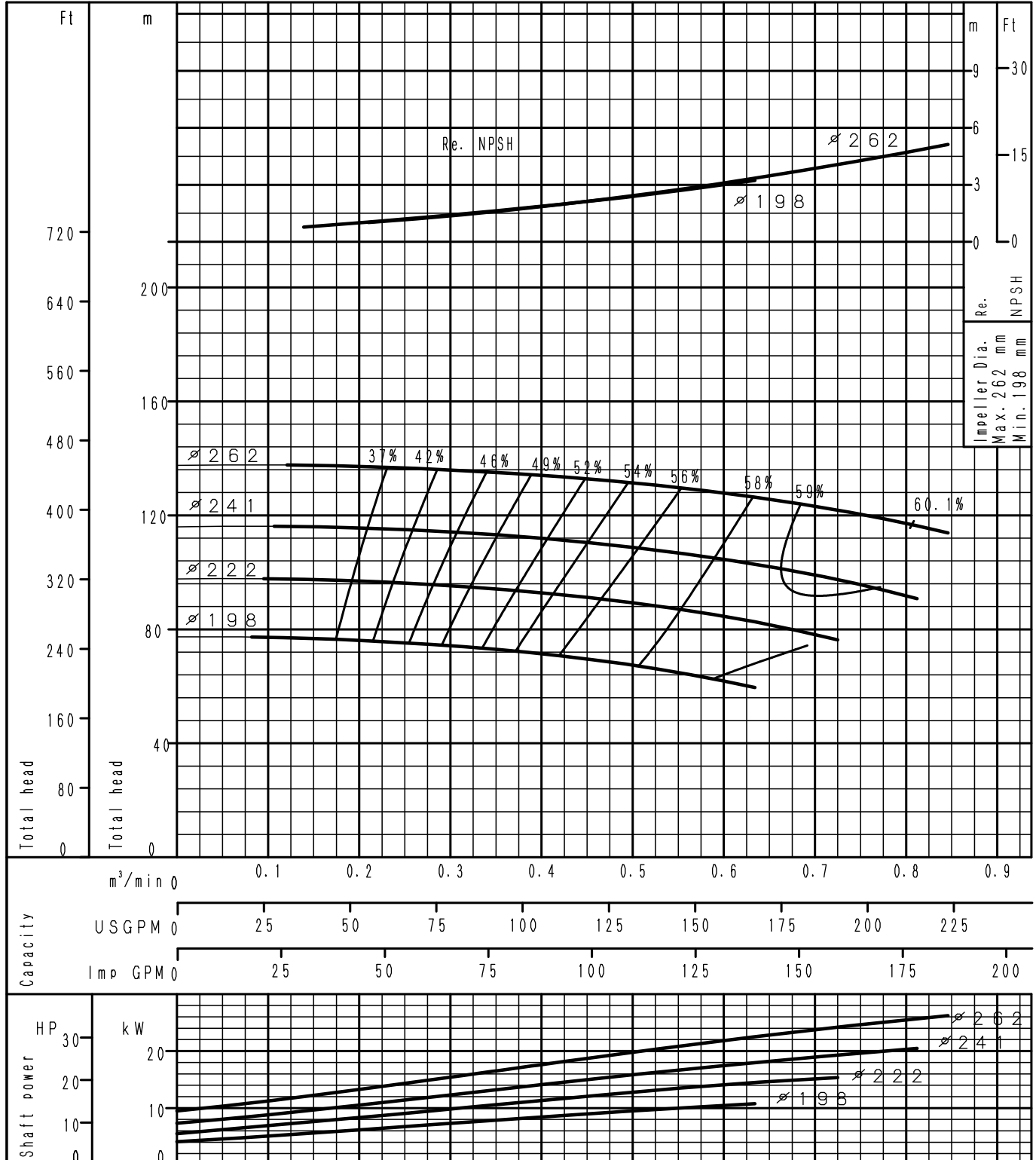
GS32-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	
DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s	



Performance Curve

2 Poles

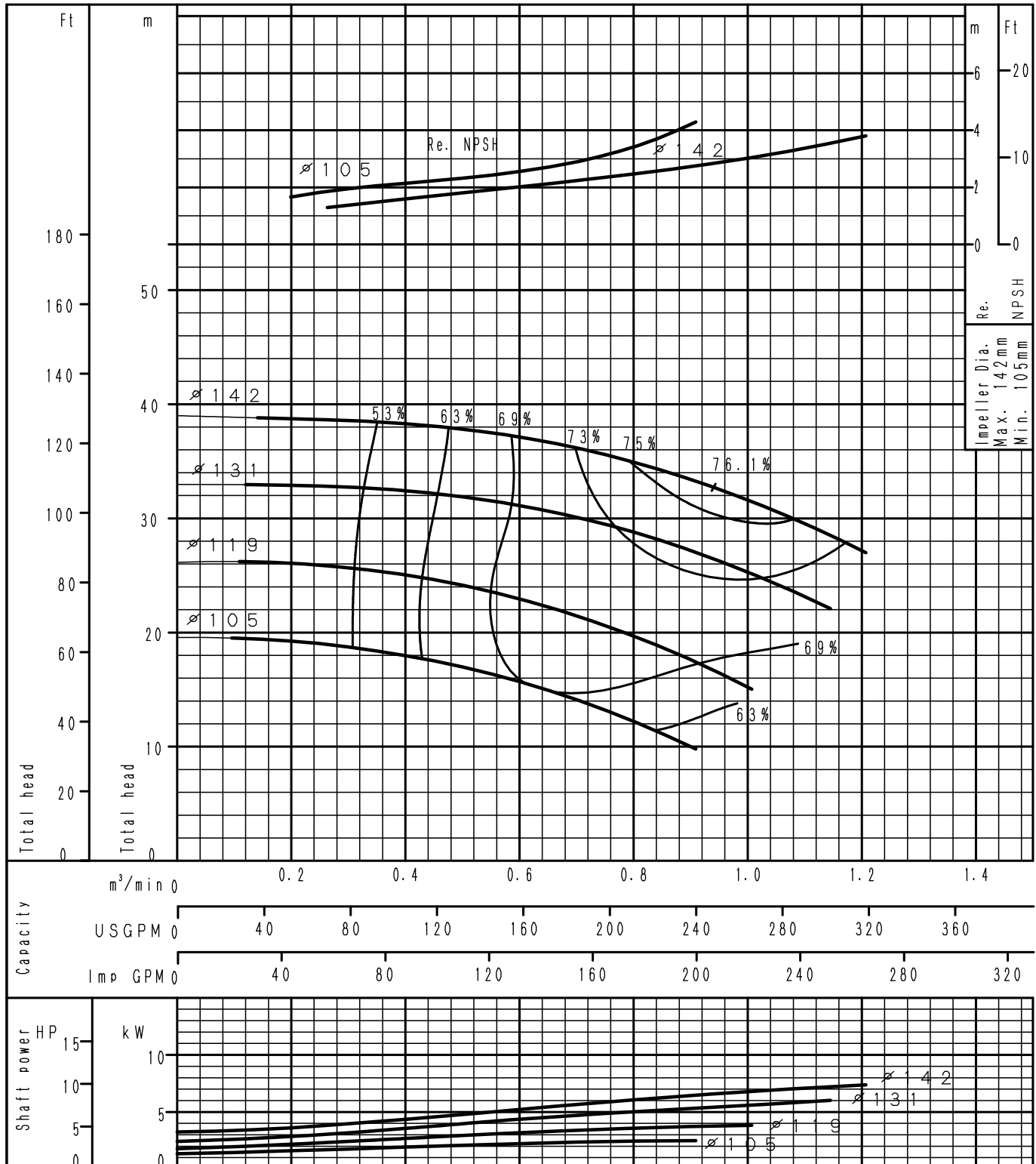
<h1 style="font-size: 2em; margin: 0;">GS32-250</h1>	According to ISO testing code 9906 Grade 3B DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s
60Hz (Speed 3500 min ⁻¹)	



Performance Curve

2 Poles

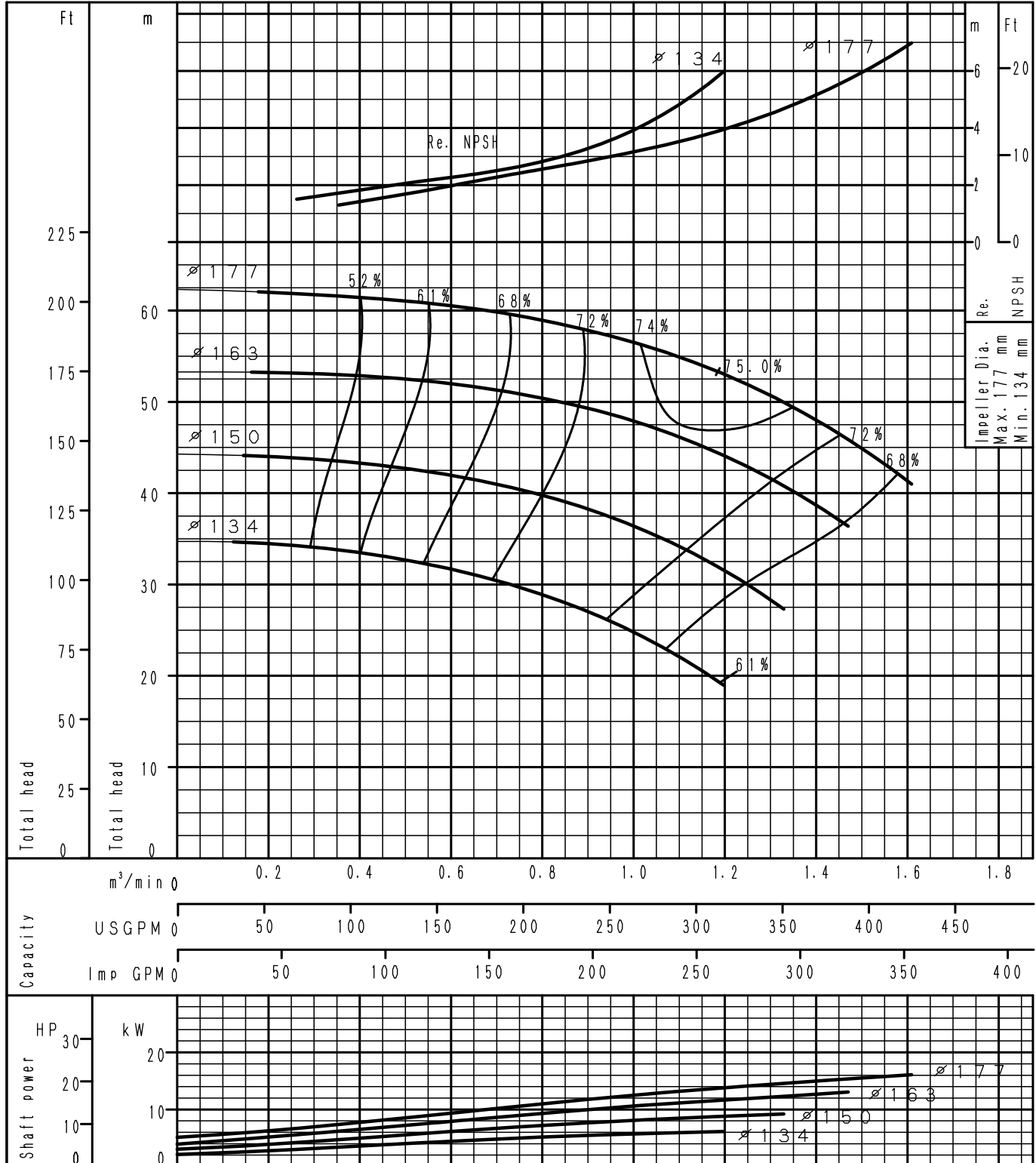
GS40-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

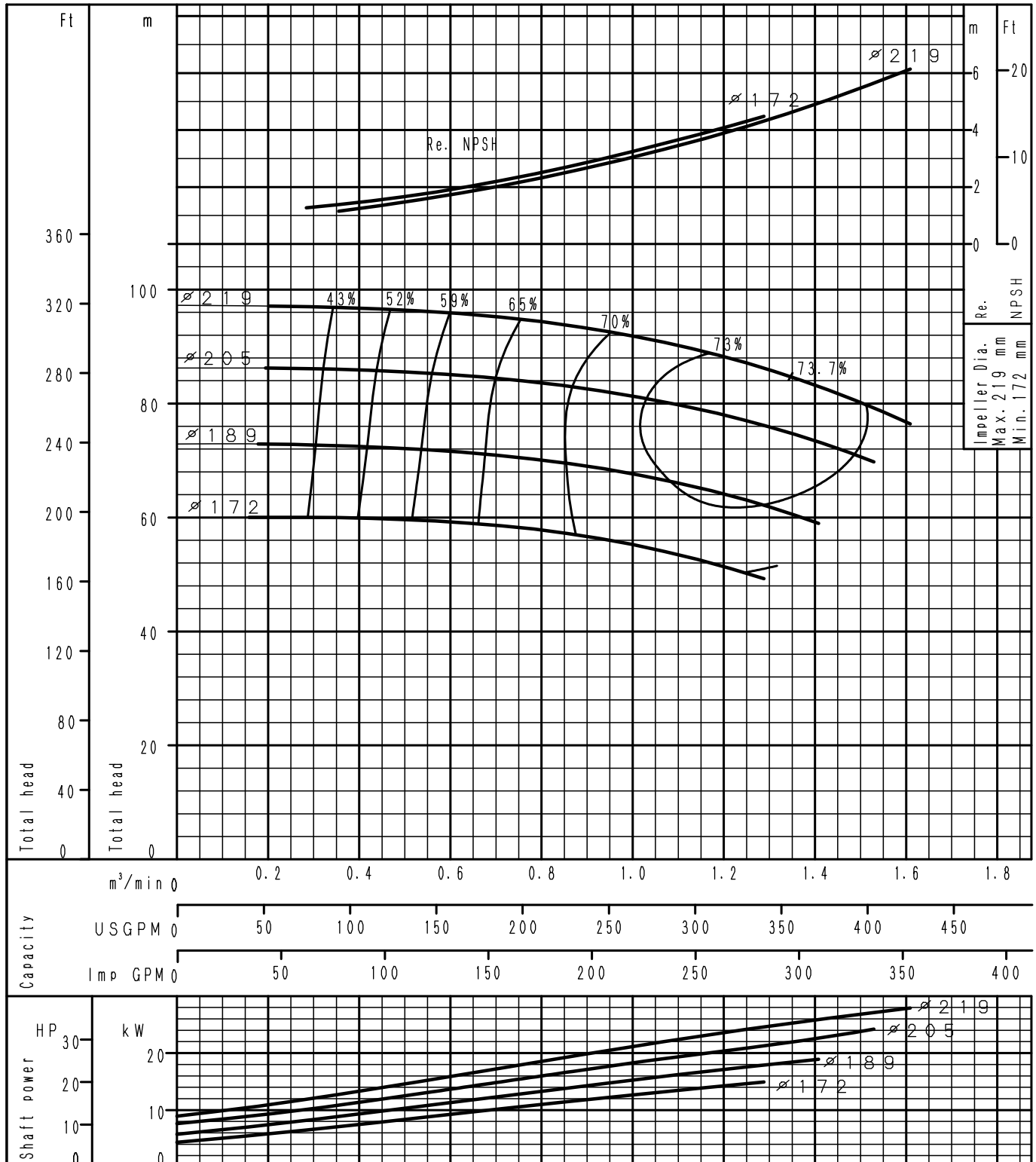
GS40-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

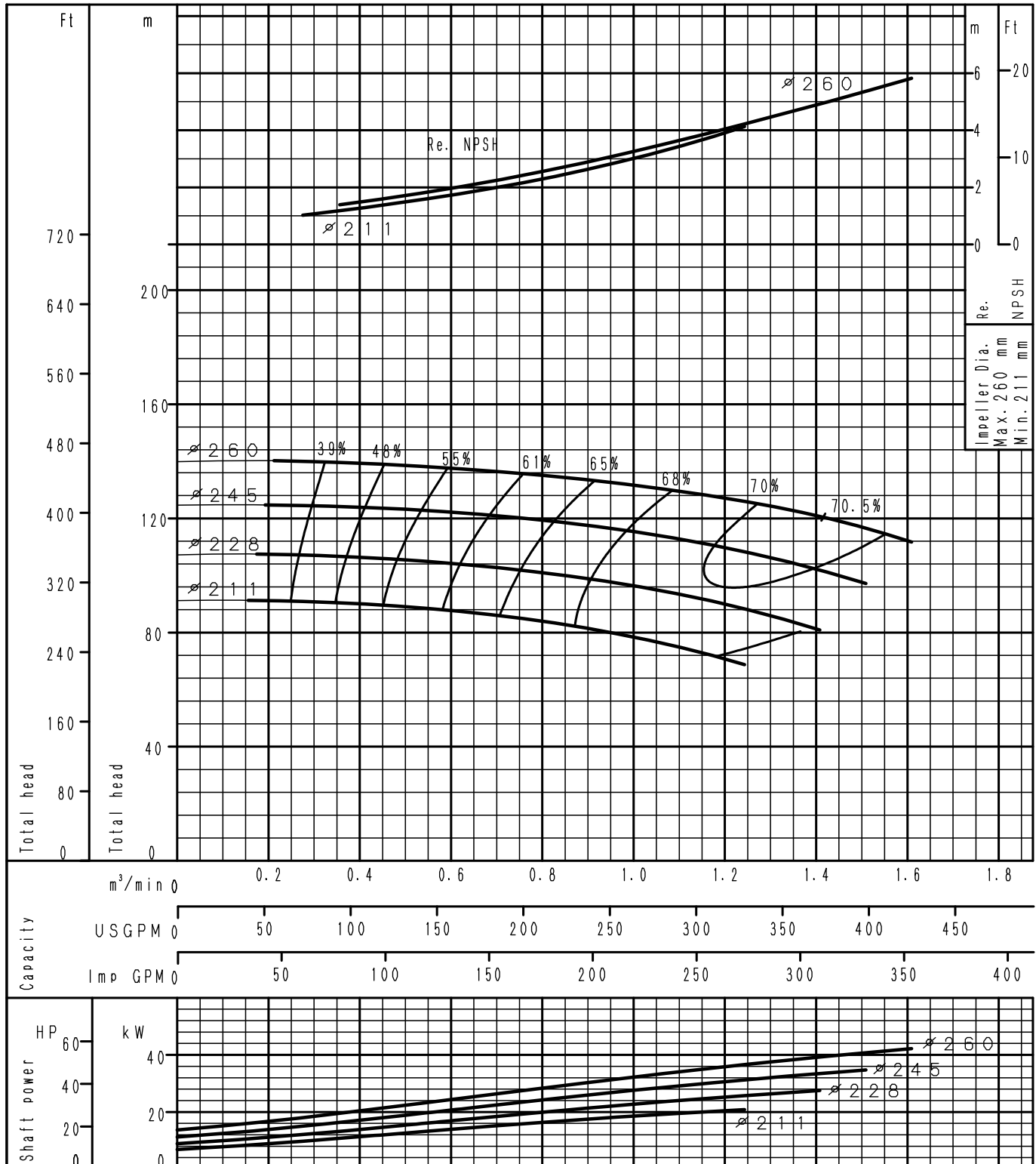
GS40-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

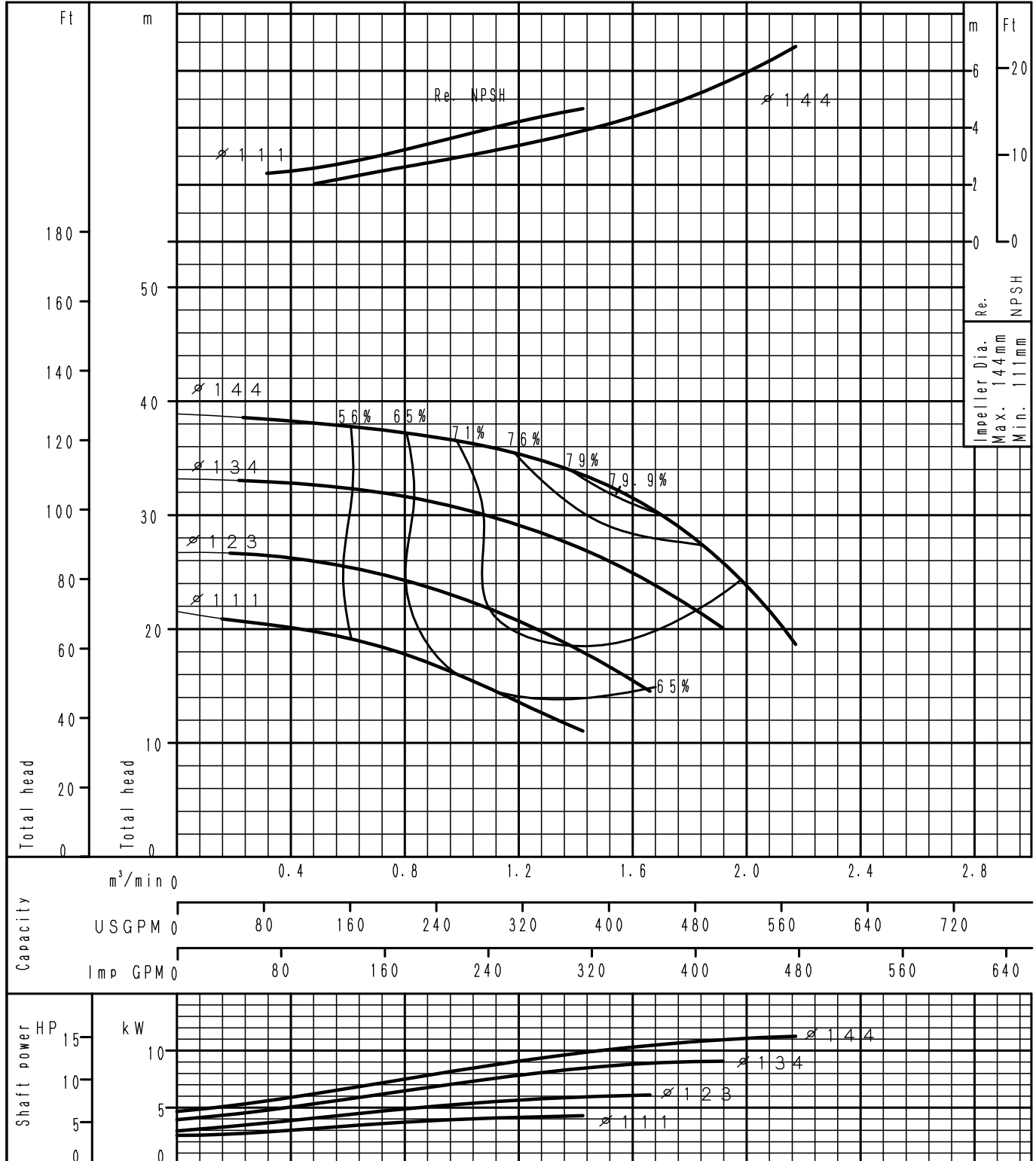
GS40-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

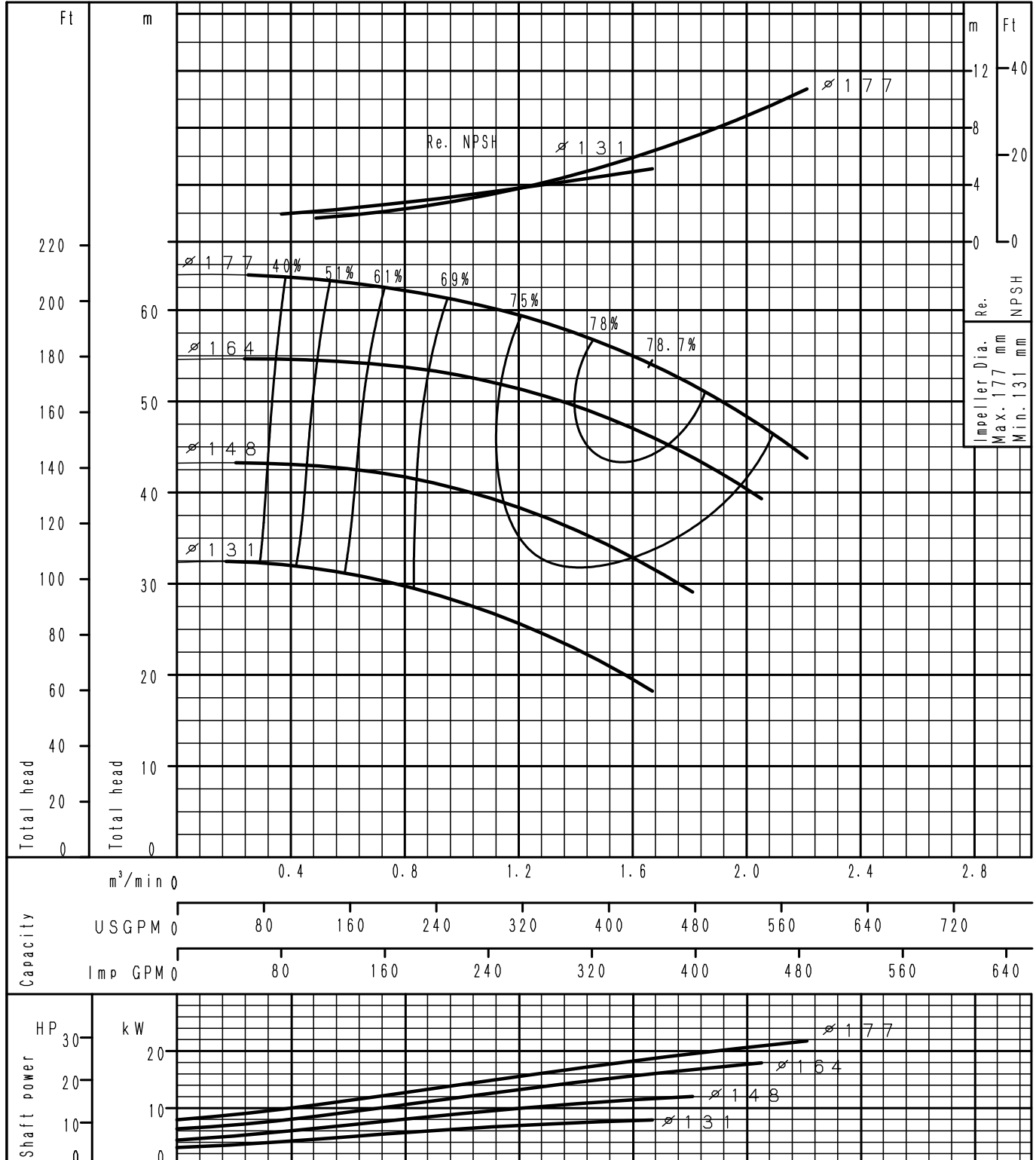
GS50-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

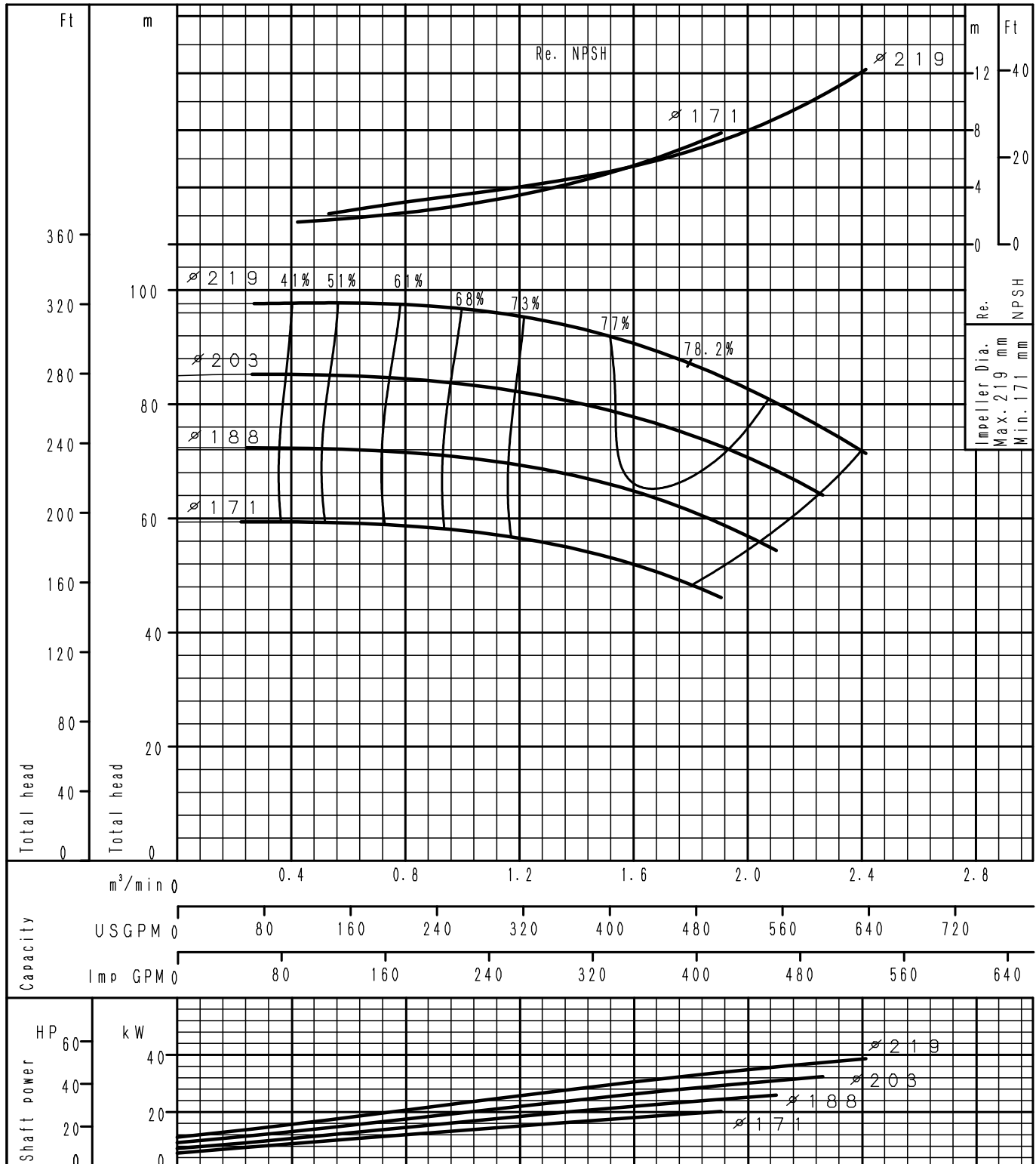
GS50-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	
DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s	



Performance Curve

2 Poles

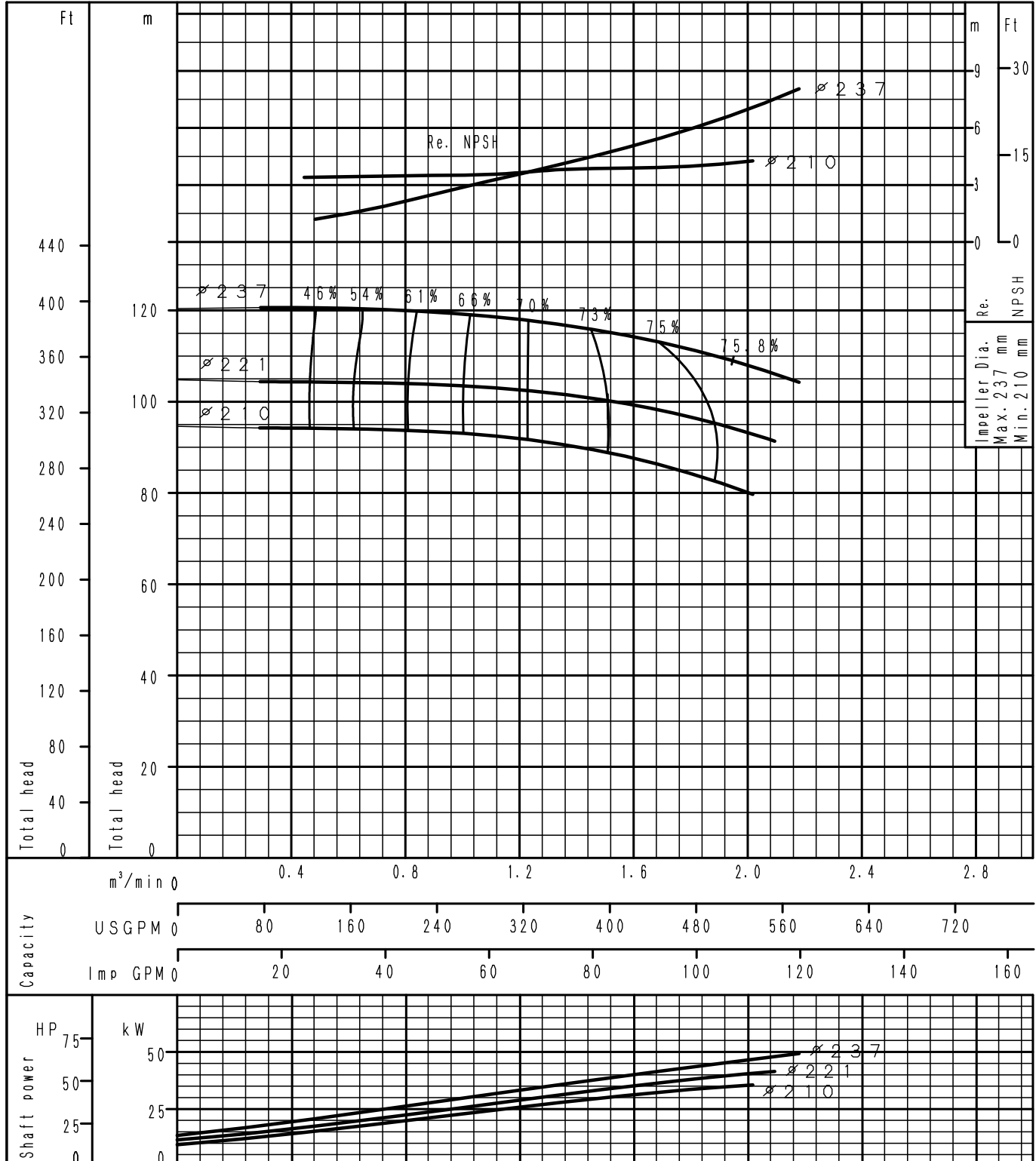
GS50-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

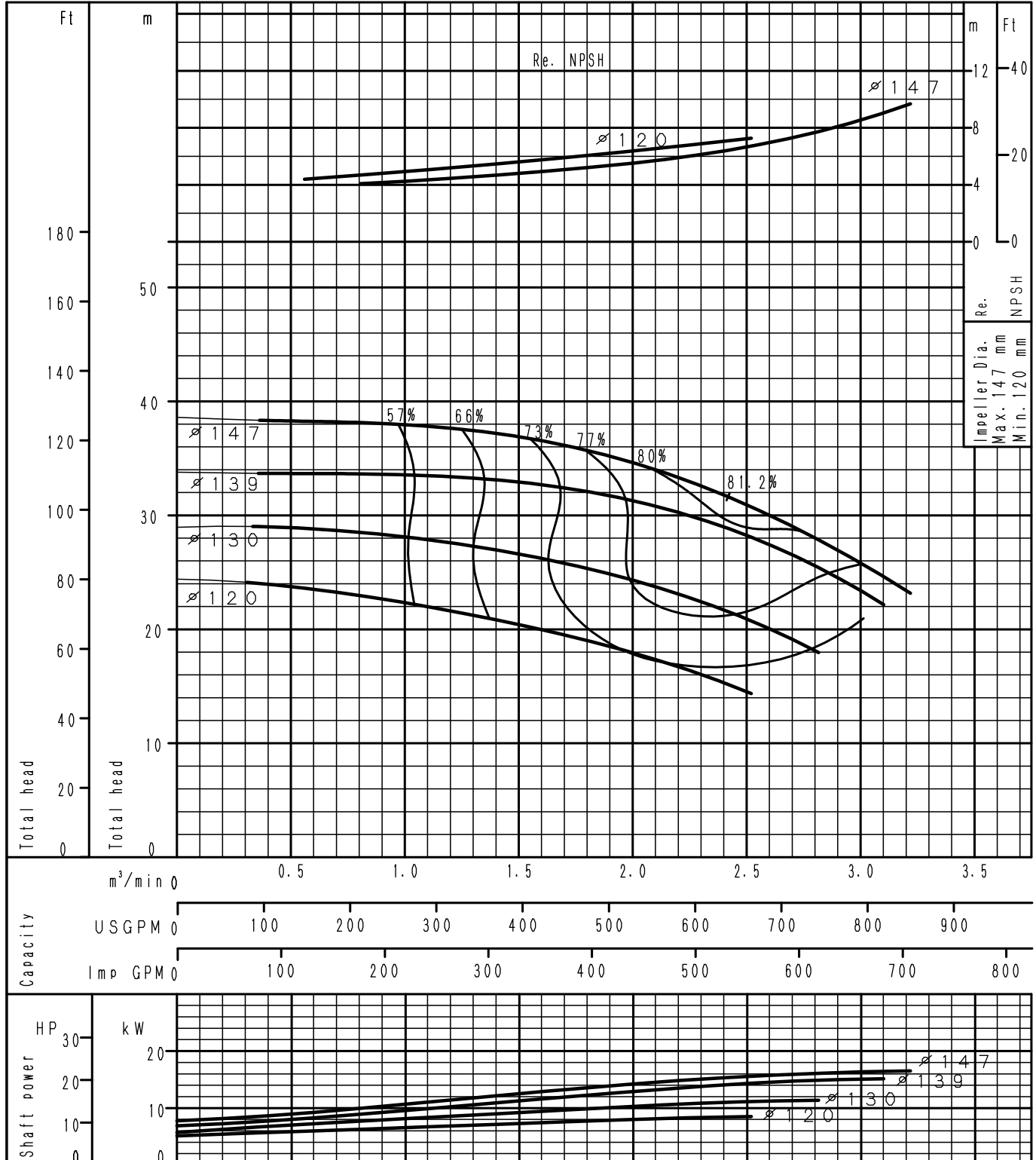
GS50-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

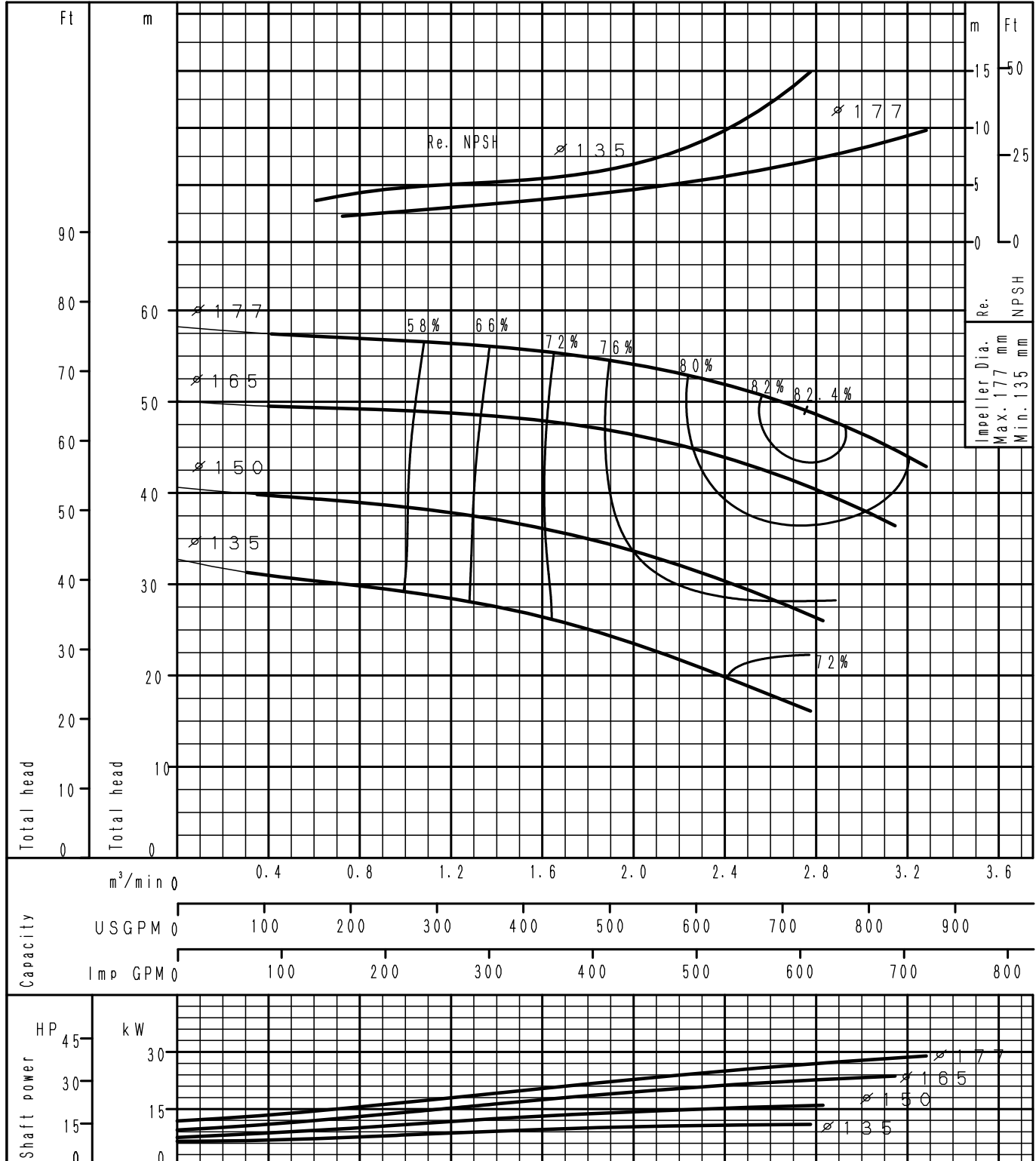
GS65-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

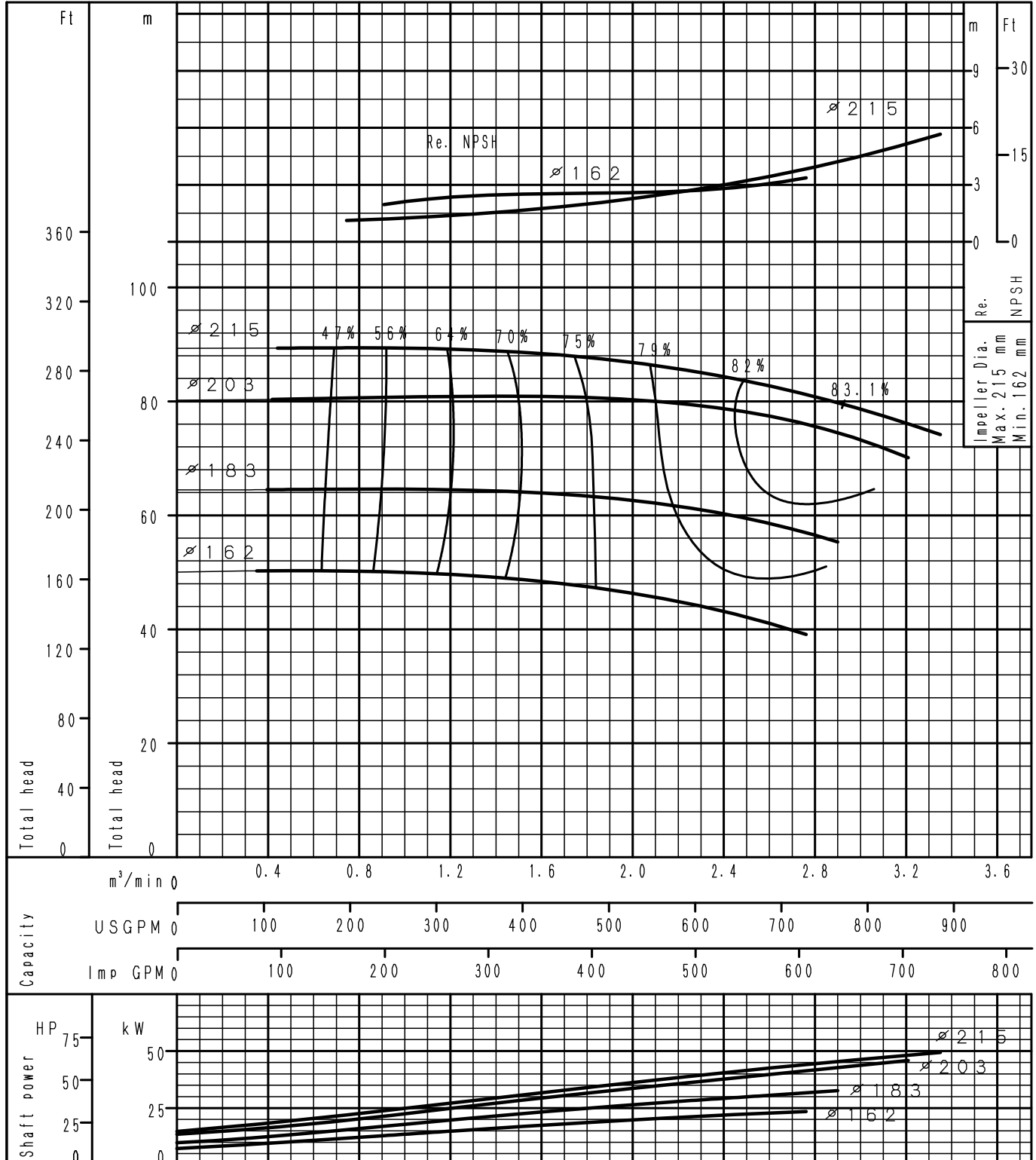
<h1 style="margin: 0;">GS65-160</h1>	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

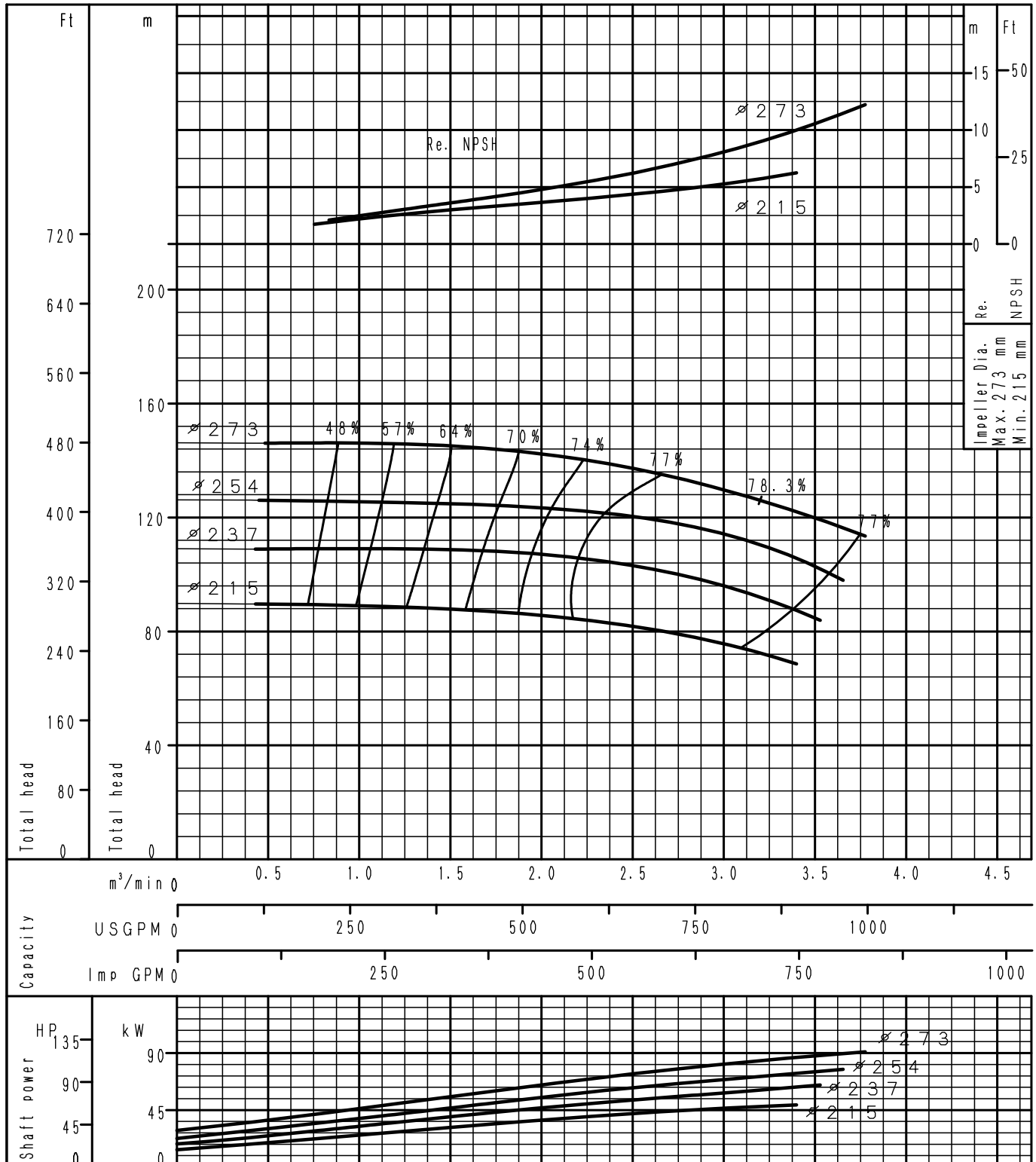
GS65-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

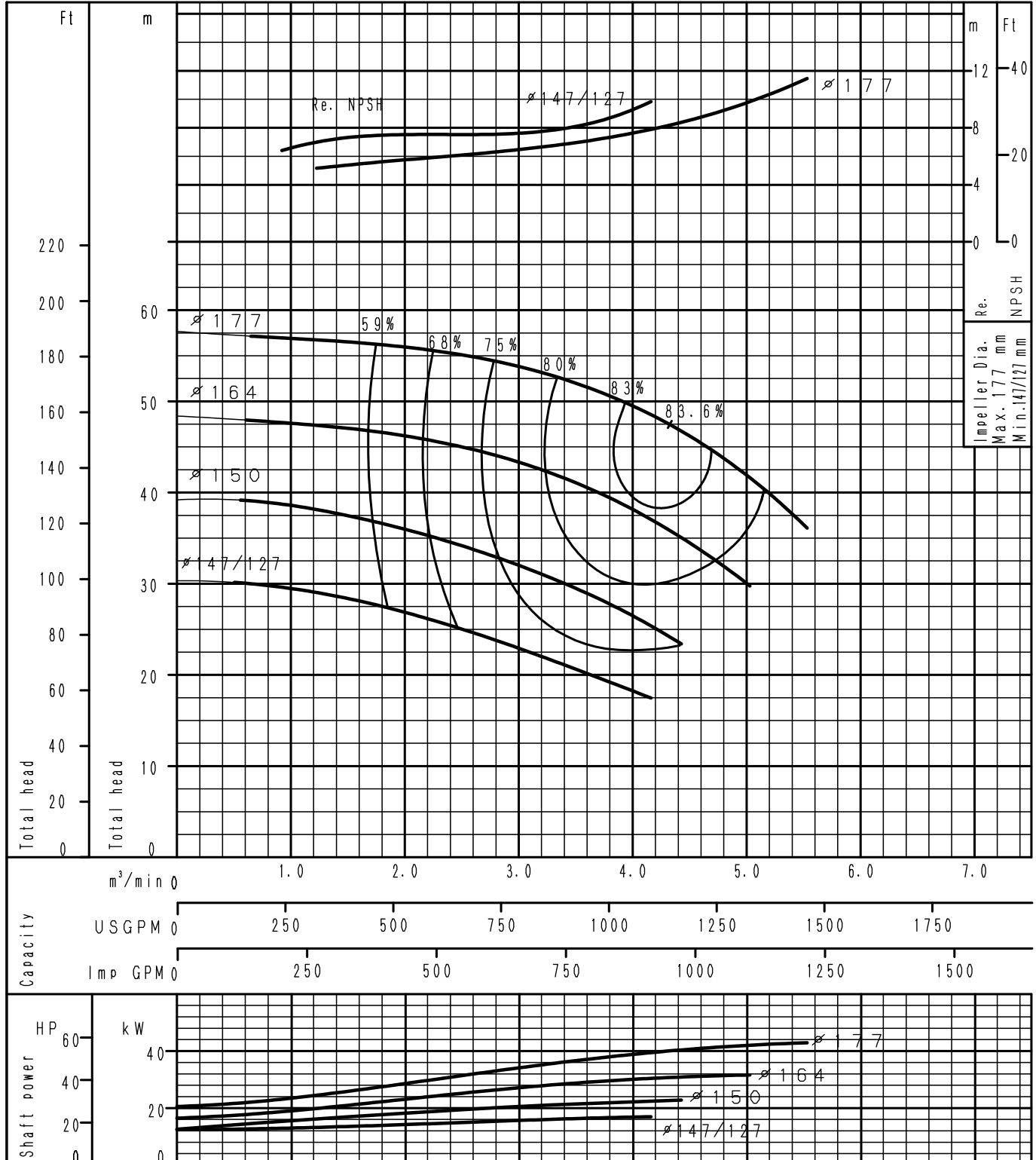
GS65-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

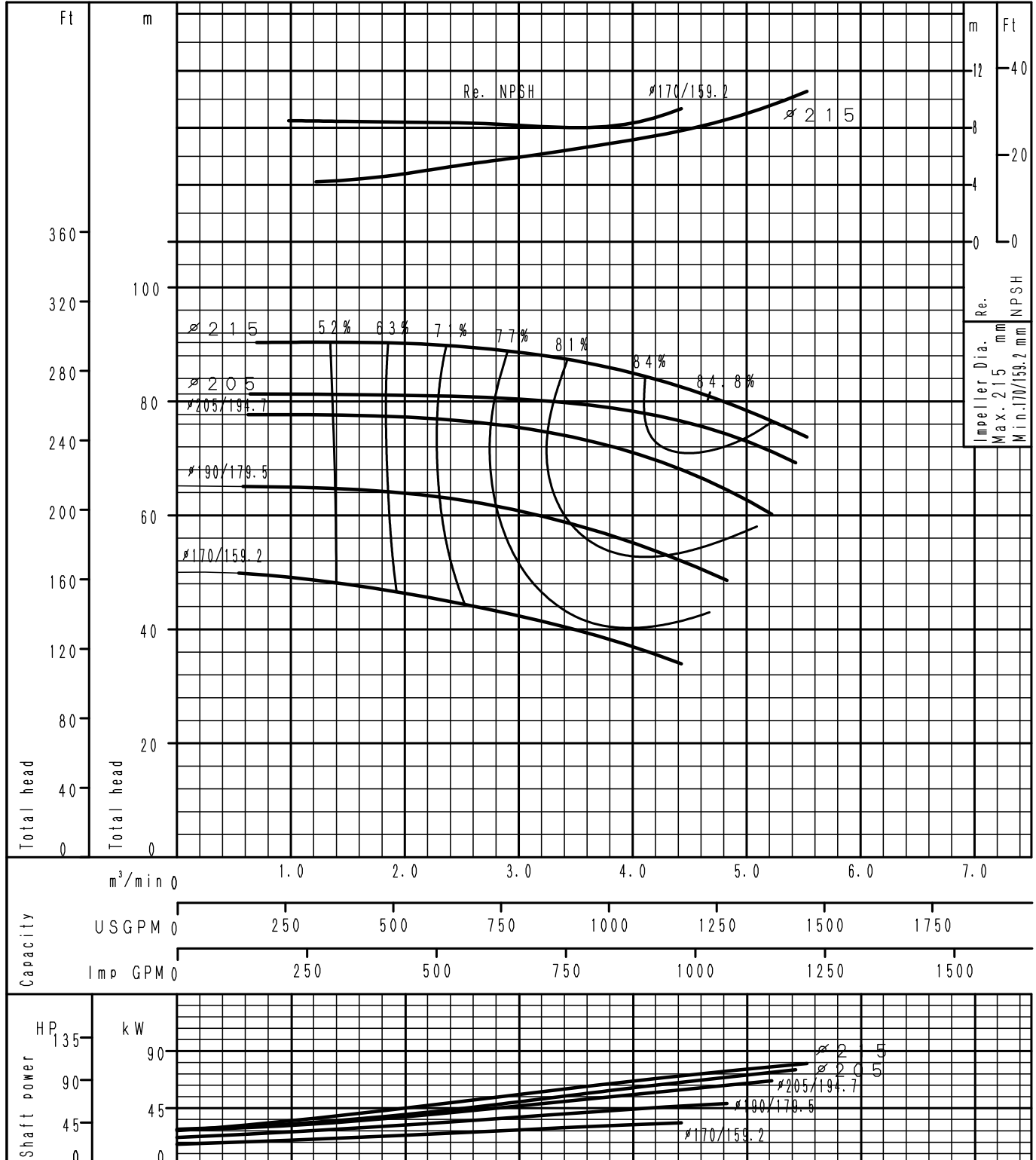
GS80-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

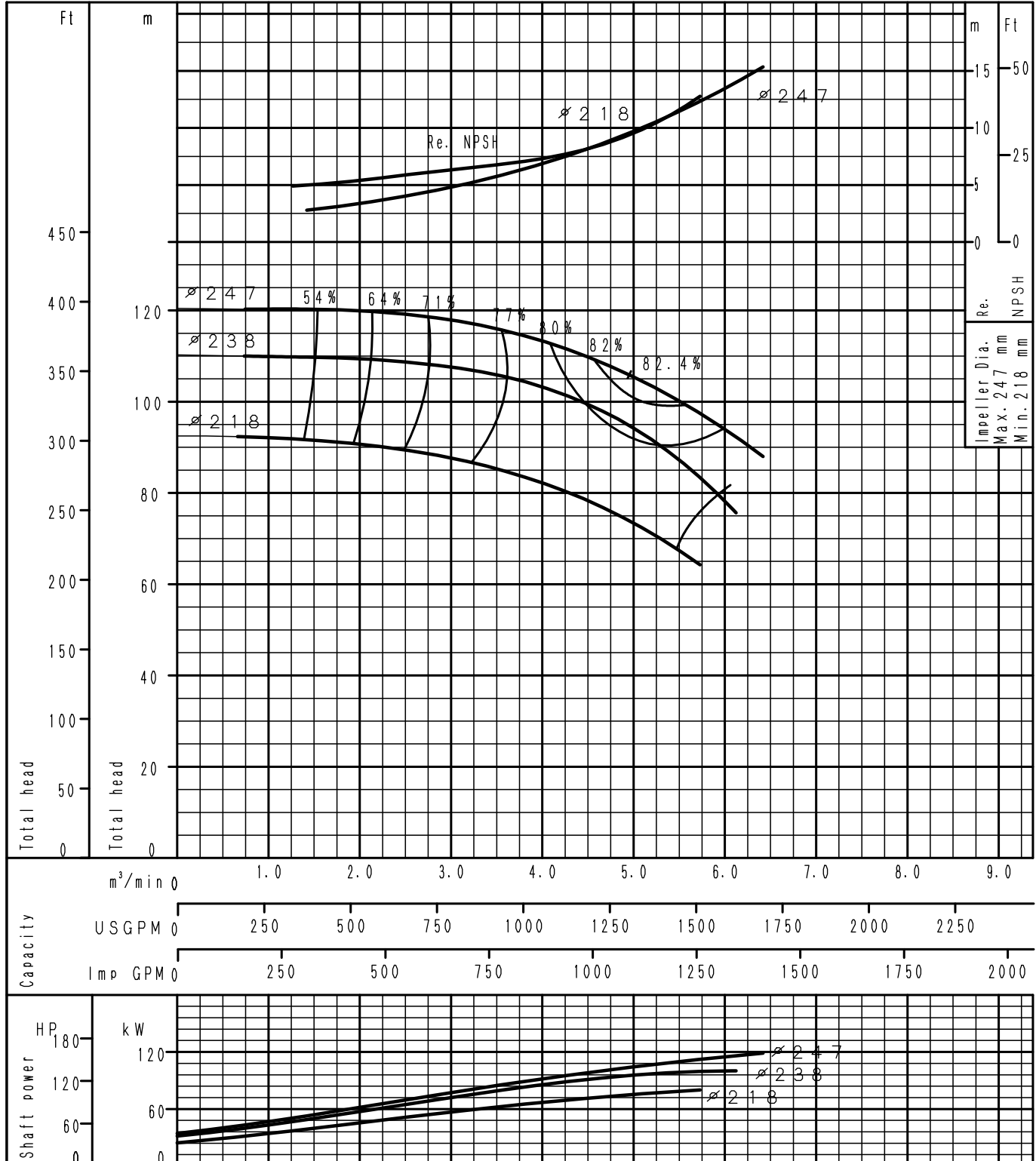
GS80-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

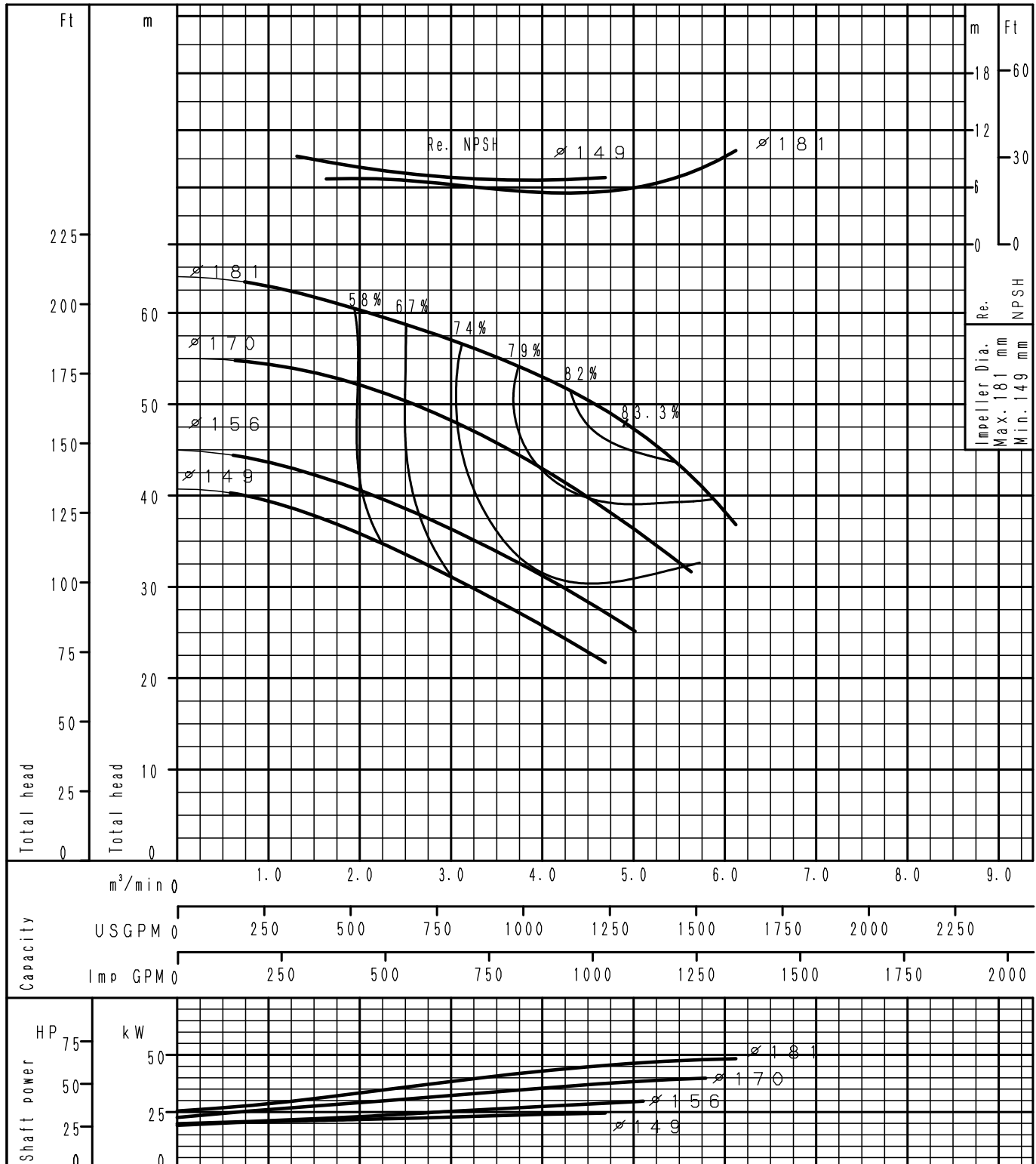
GS80-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

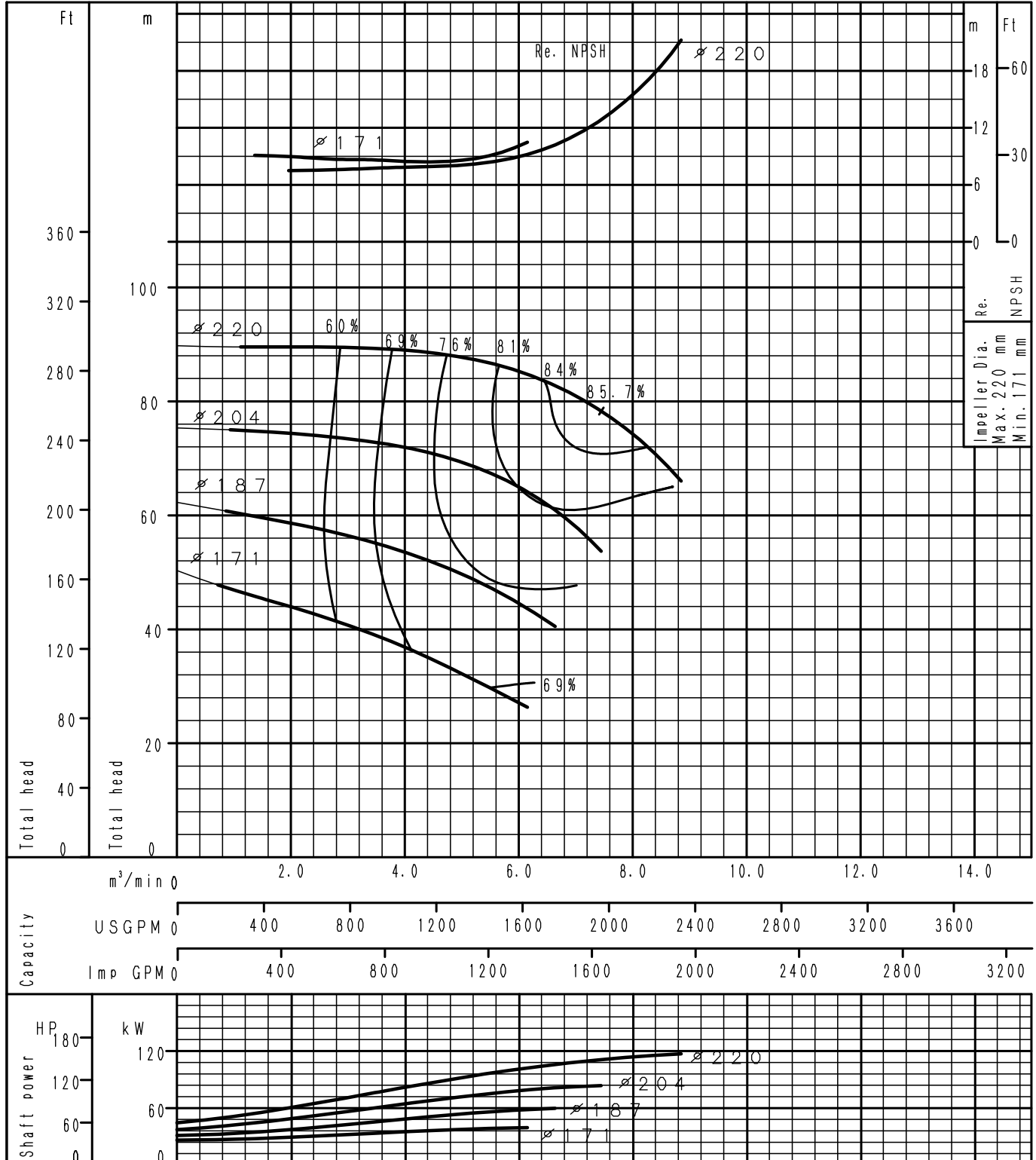
GS100-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

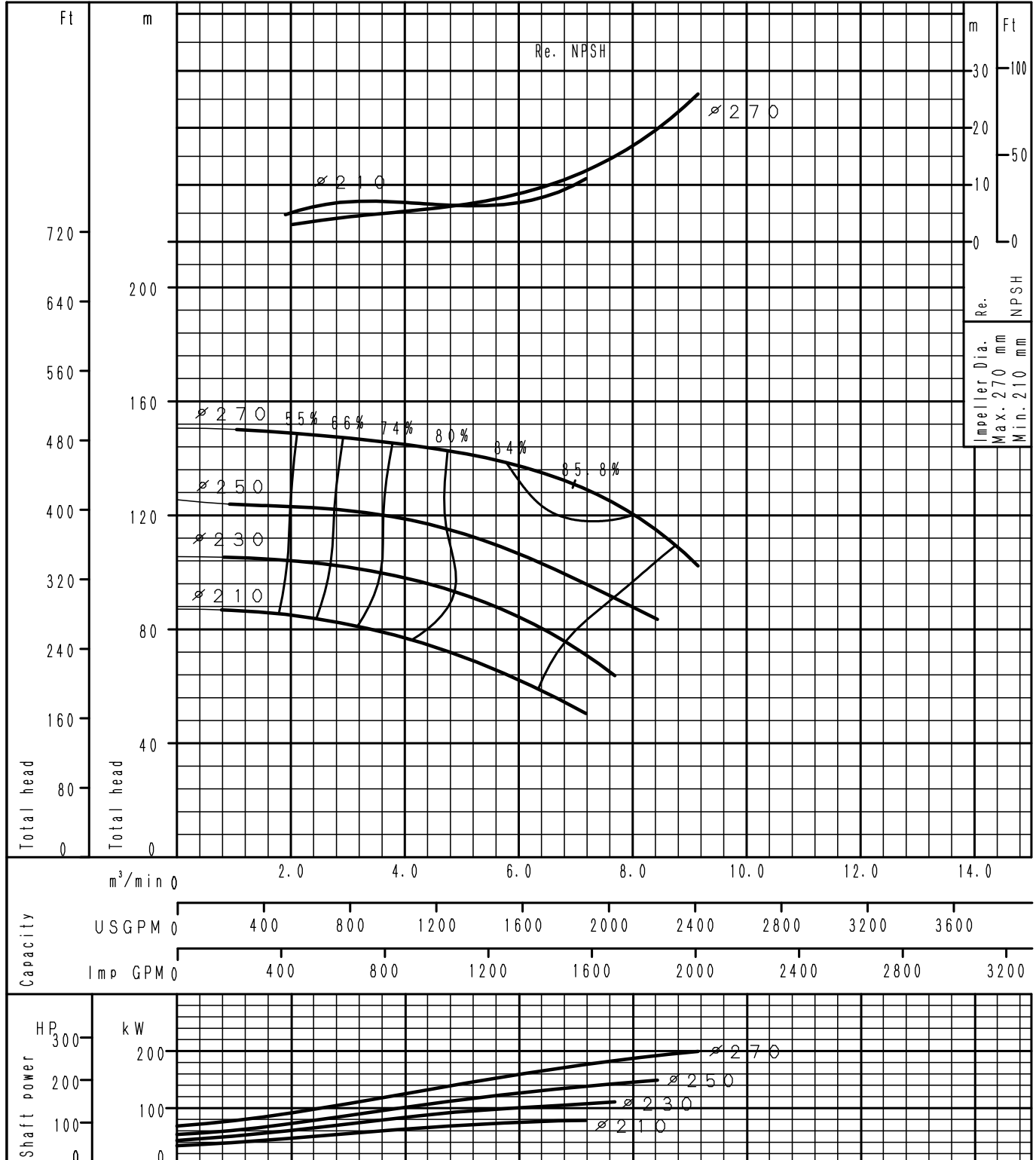
GS100-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

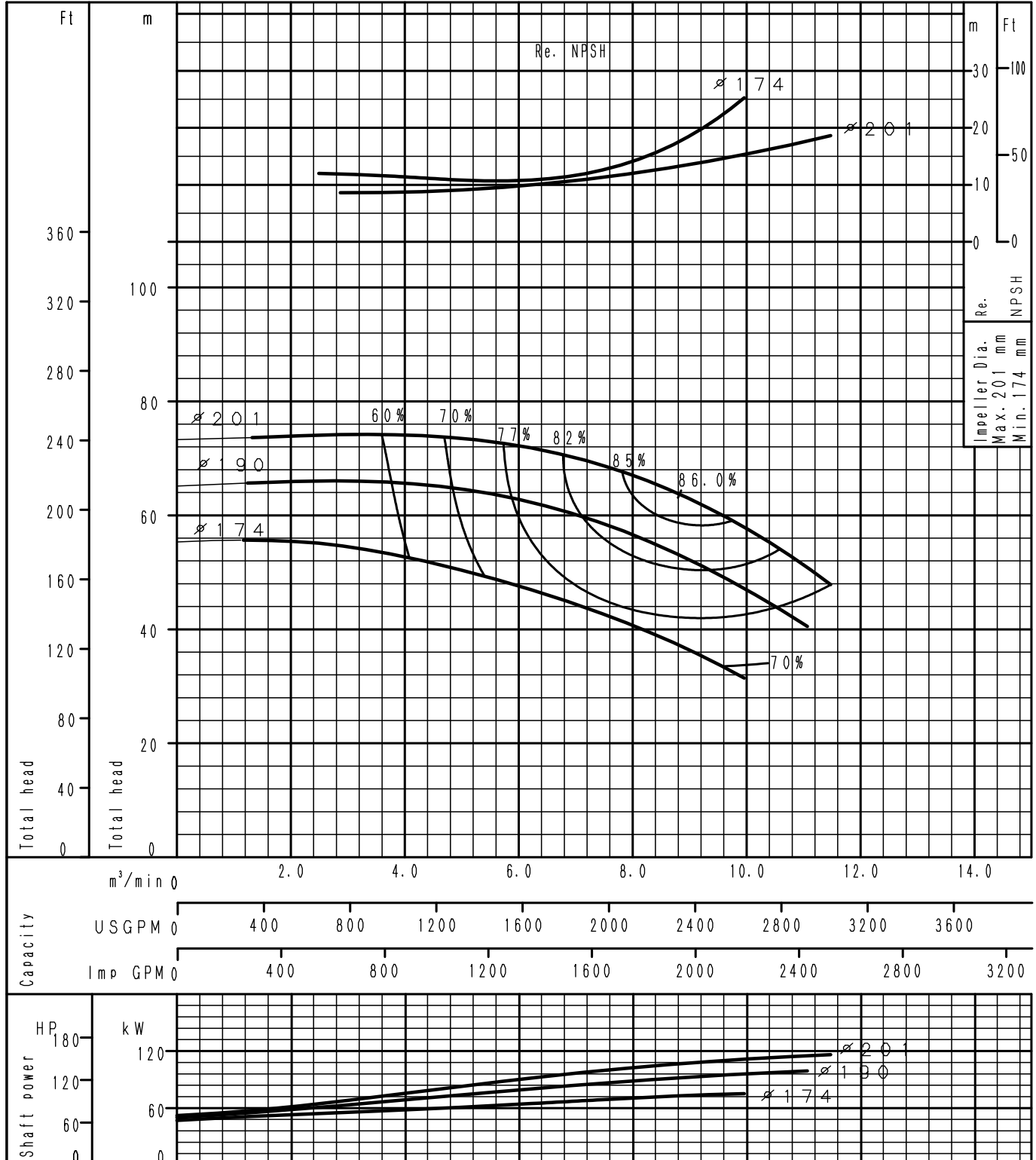
GS100-250L	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

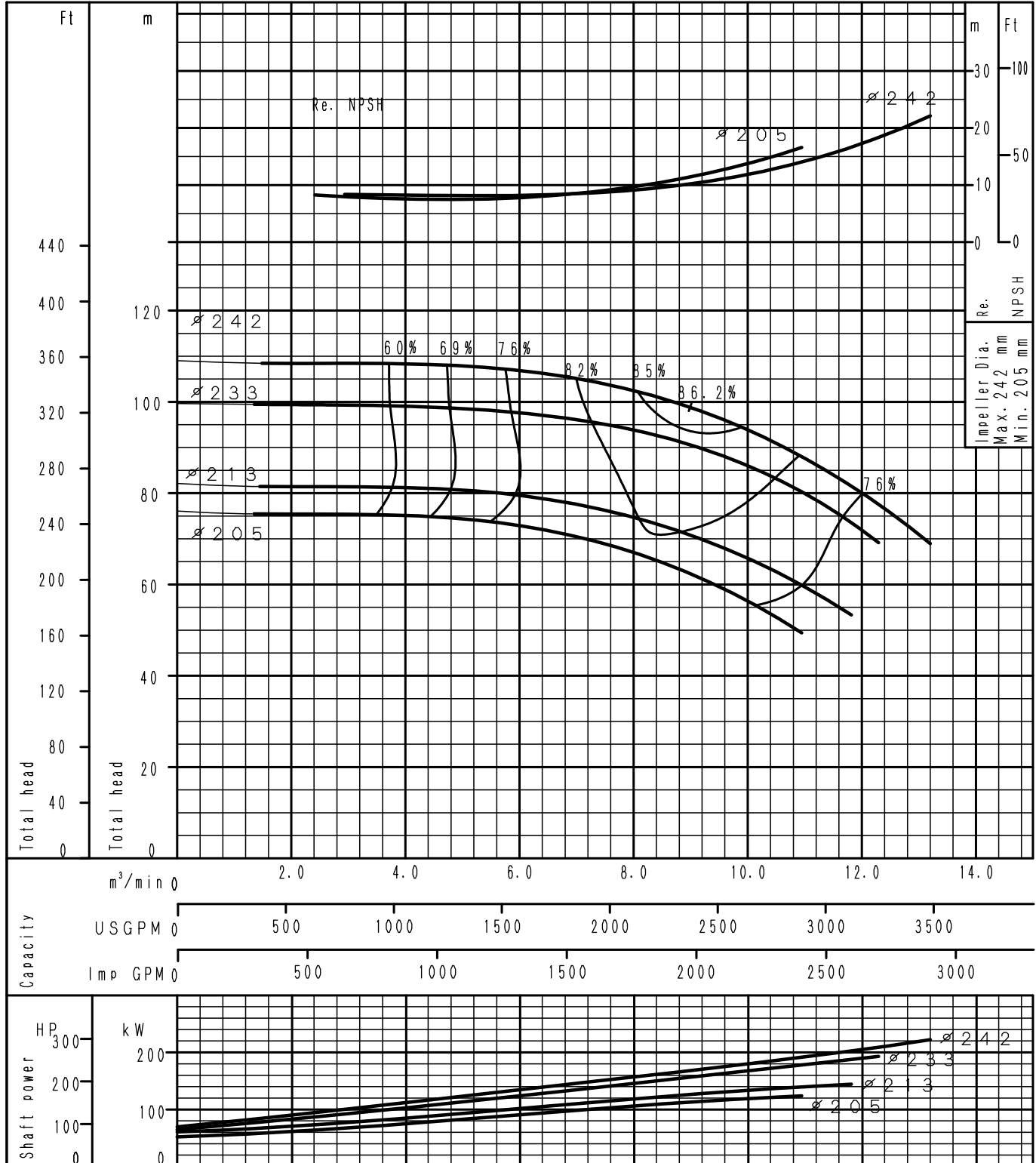
GS125-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

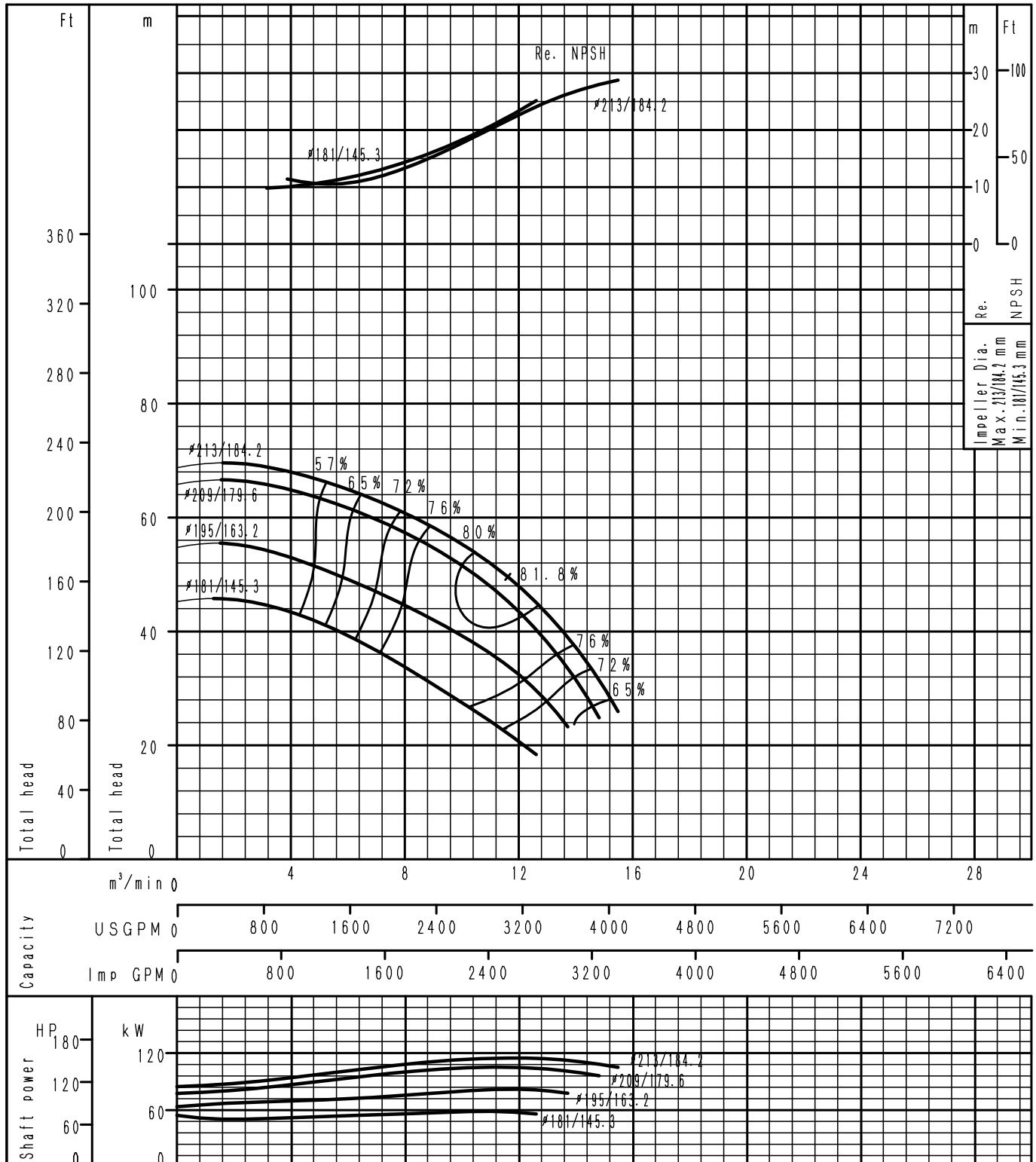
GS125-250L	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

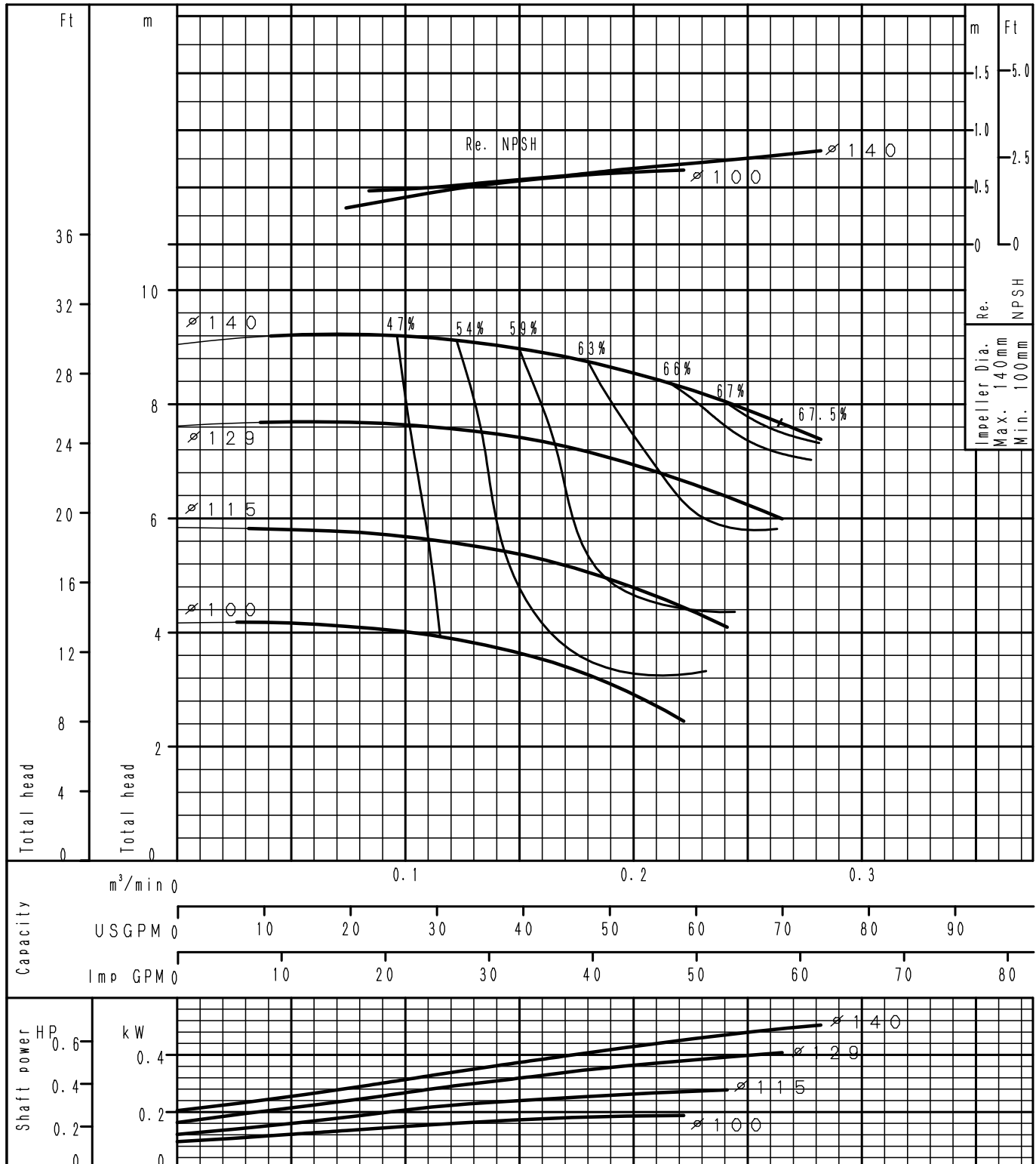
GS150-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 3500 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

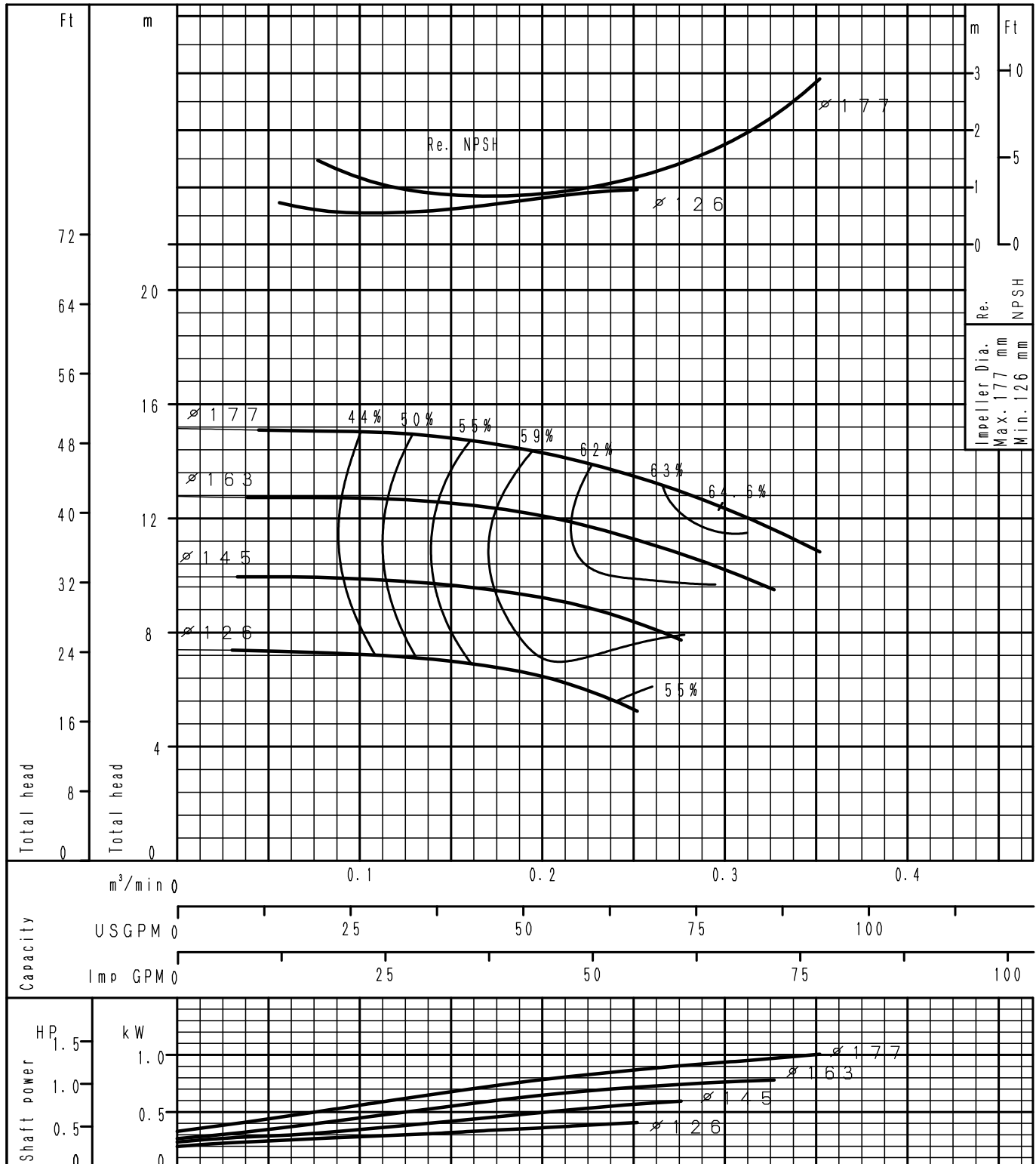
GS32-125.1	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

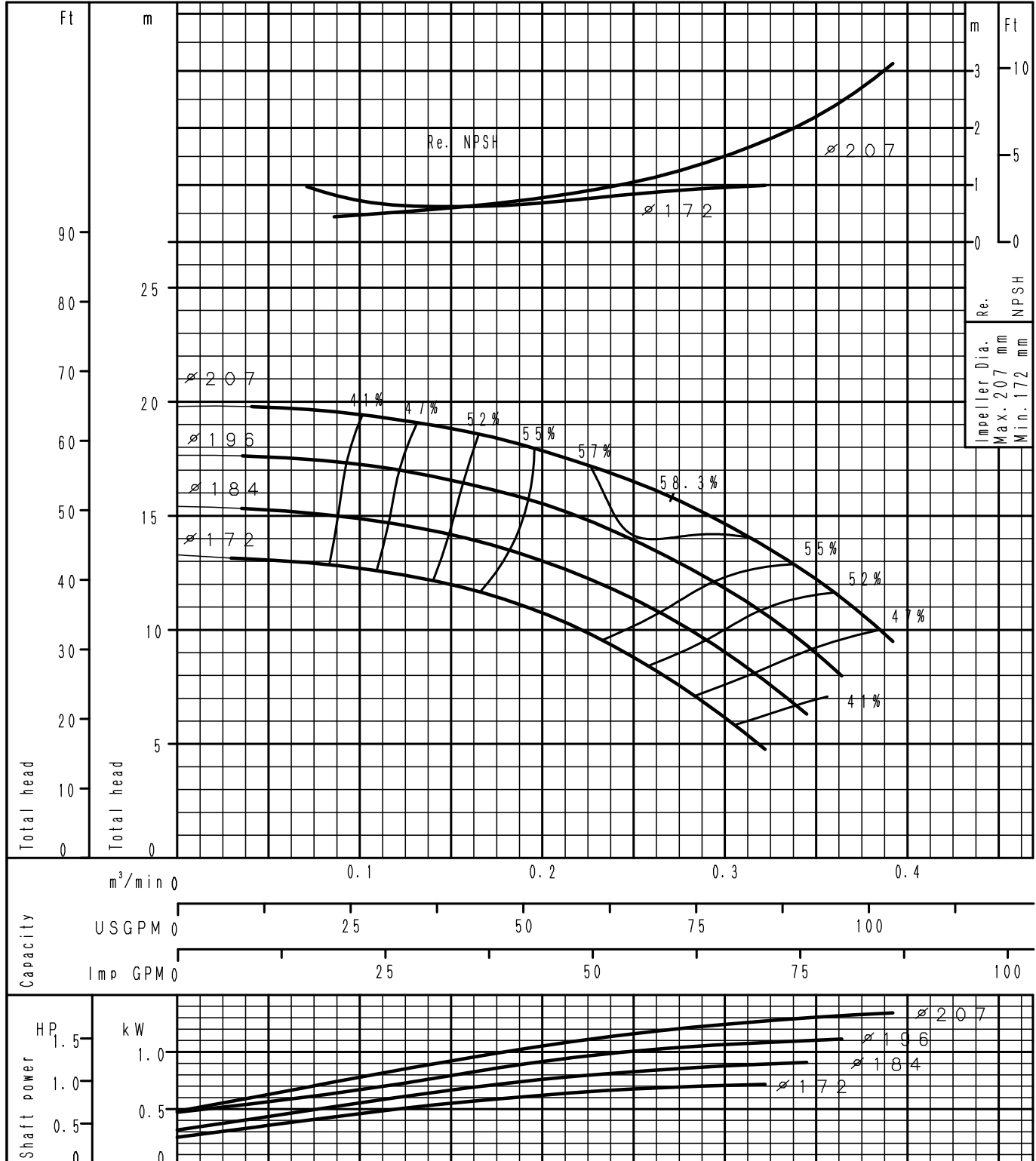
GS32-160.1	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

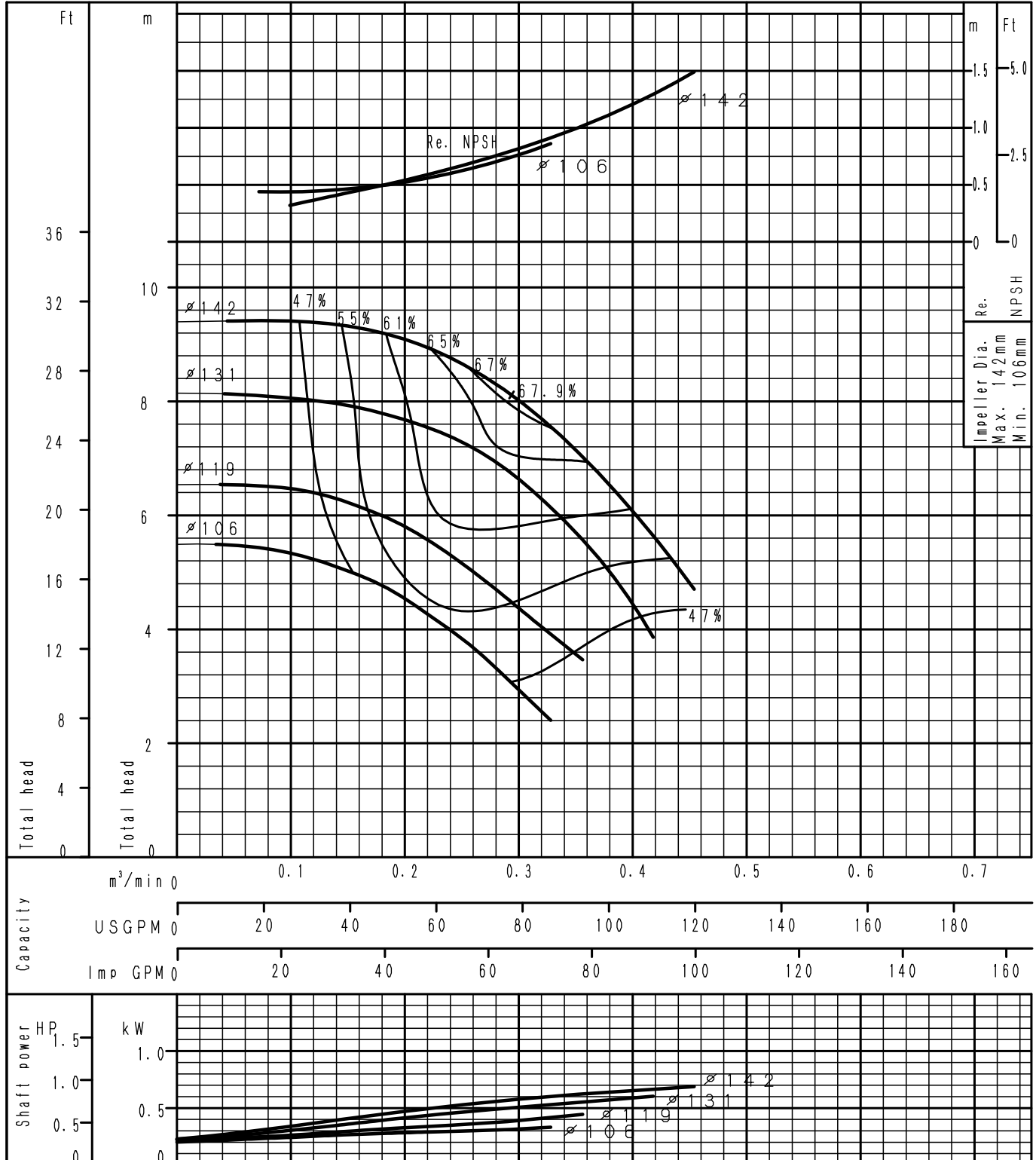
GS32-200.1	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

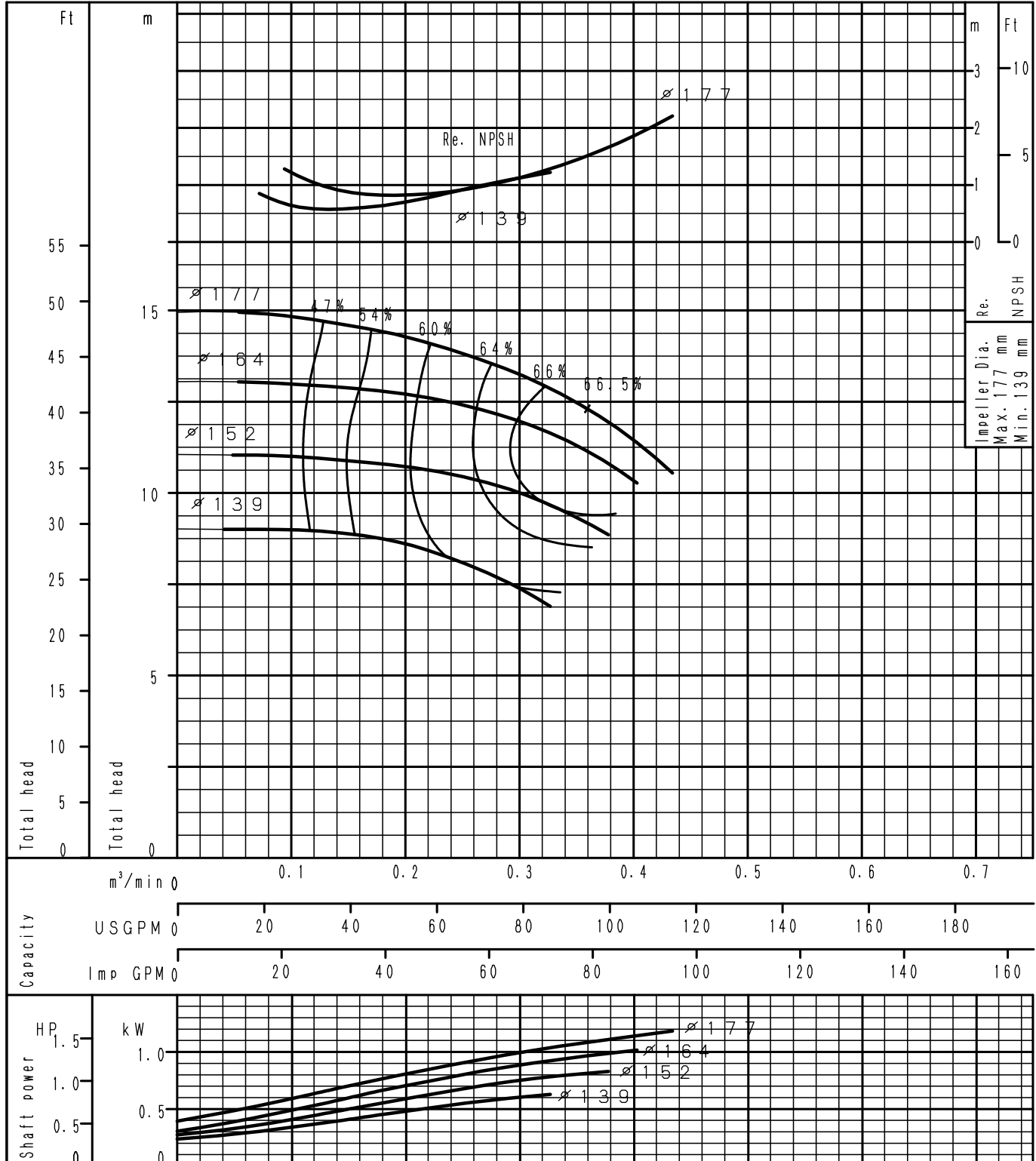
GS32-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

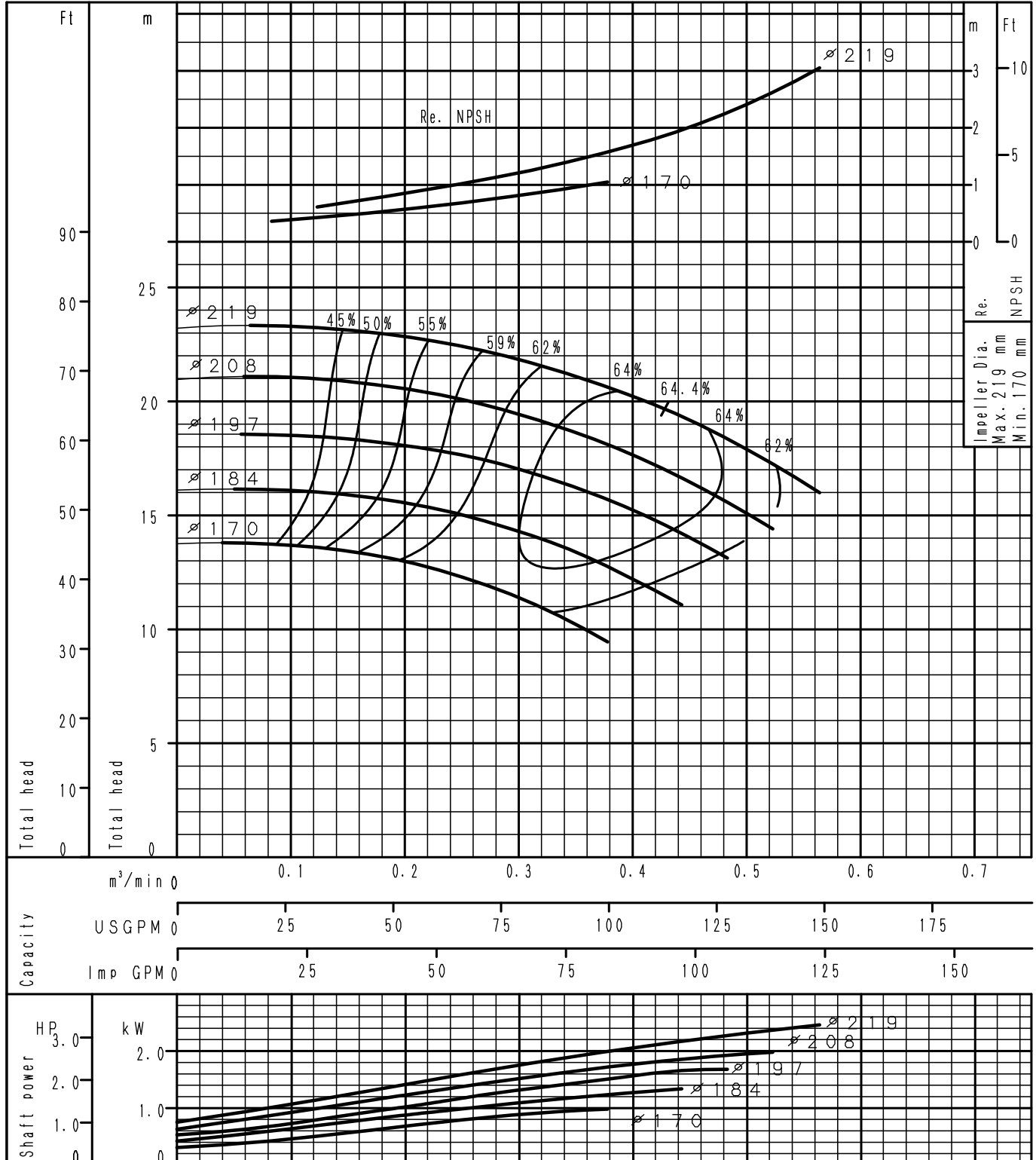
GS32-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

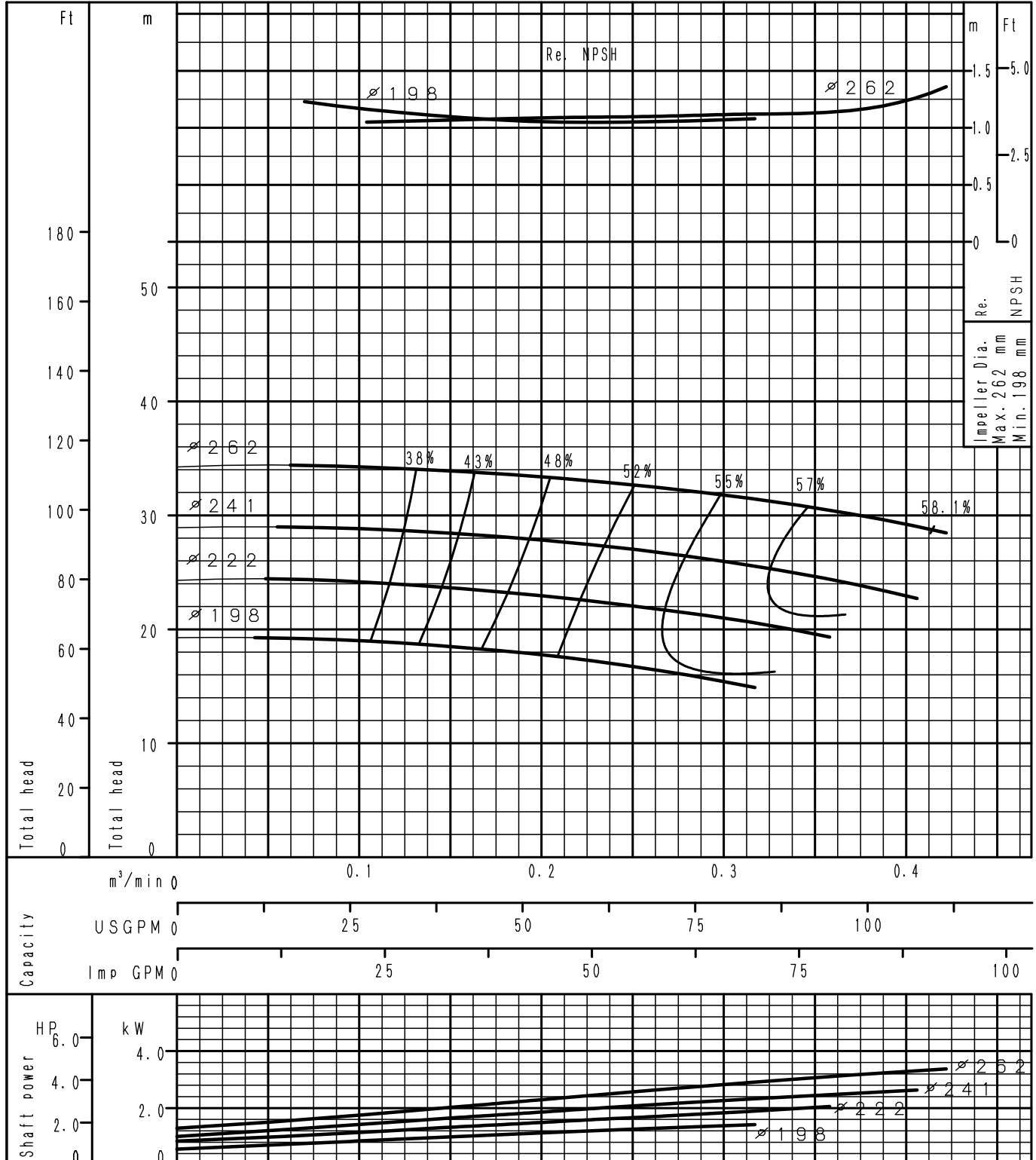
GS32-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

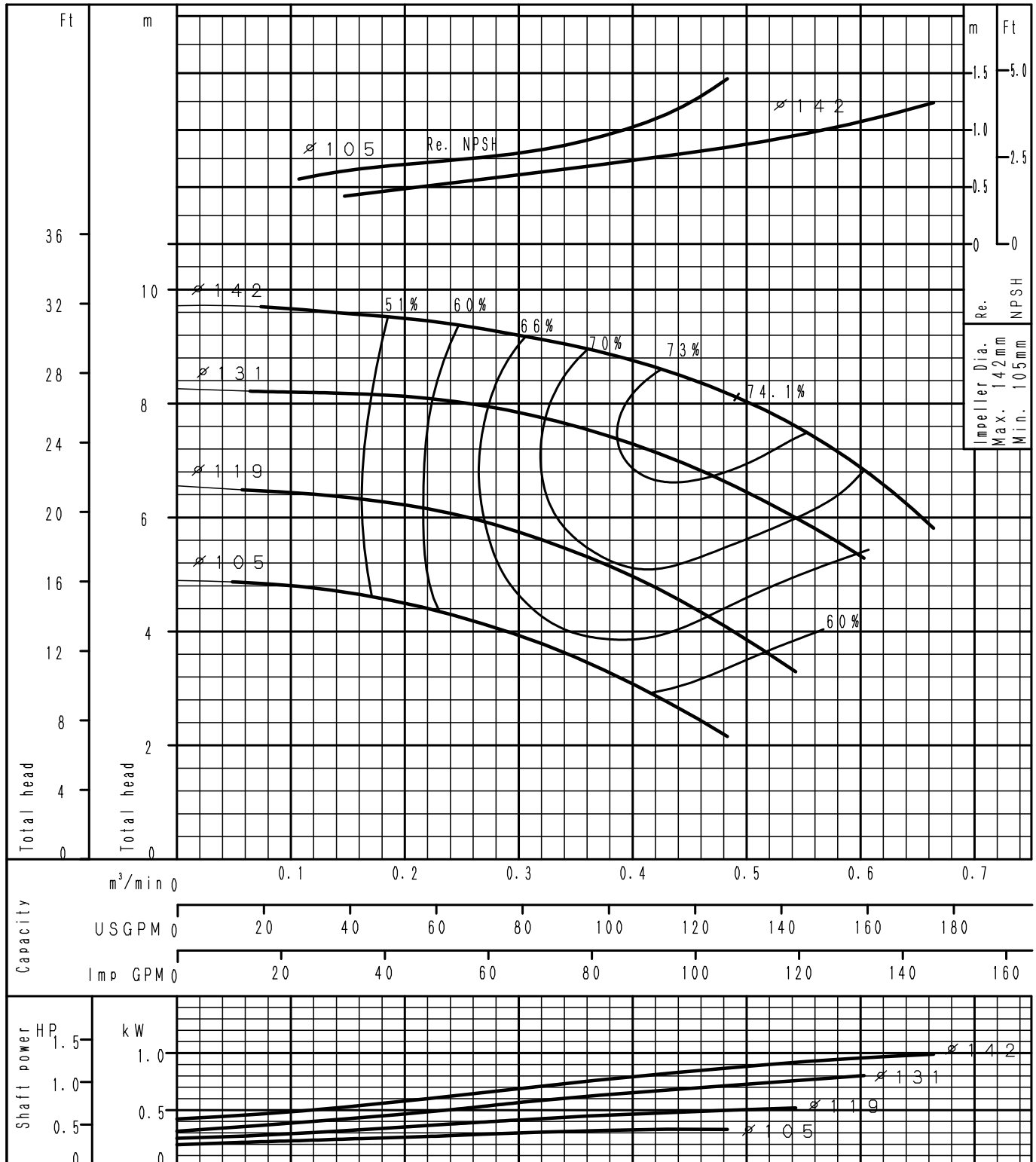
<h1 style="margin: 0;">GS32-250</h1>	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

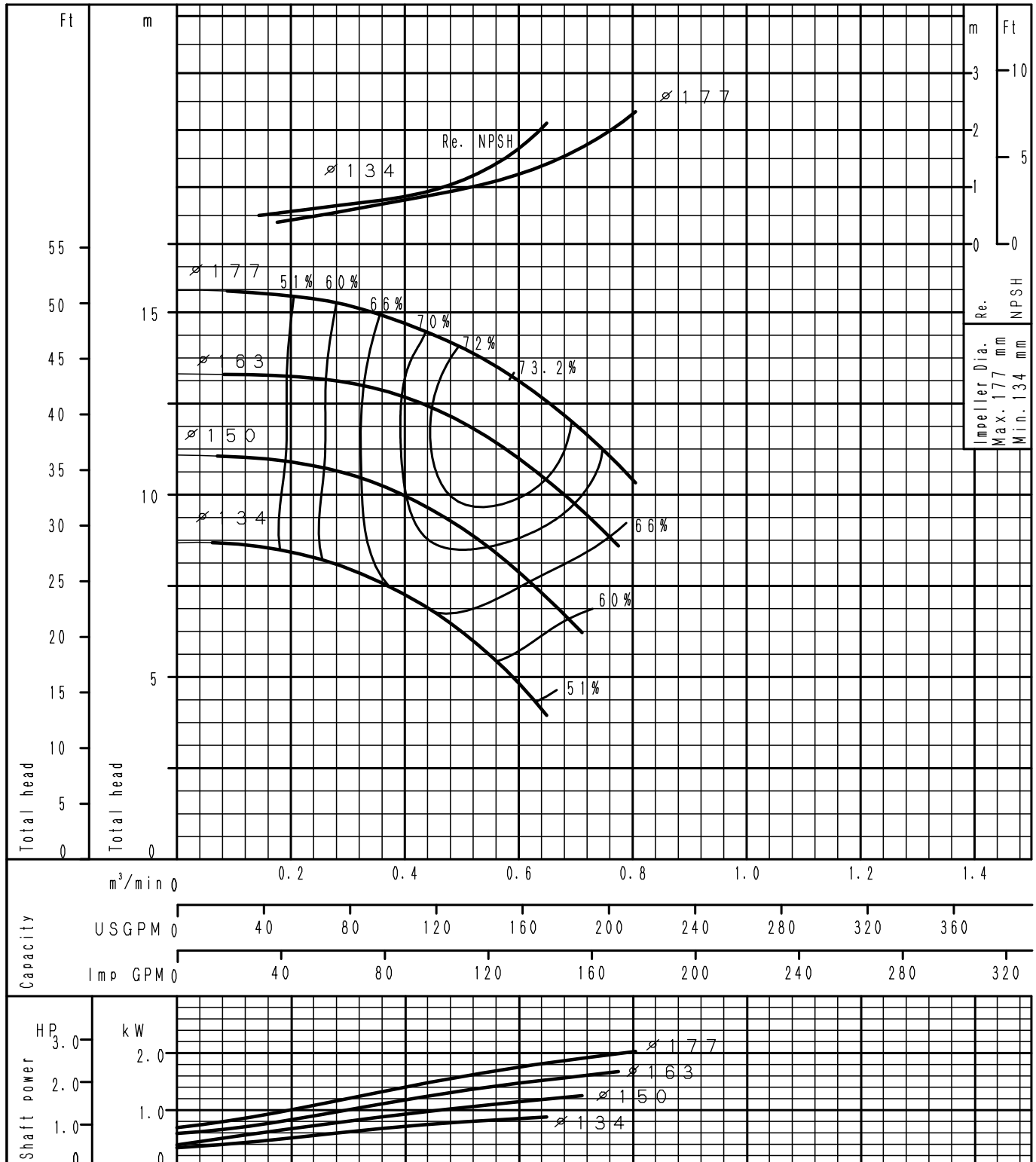
GS40-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

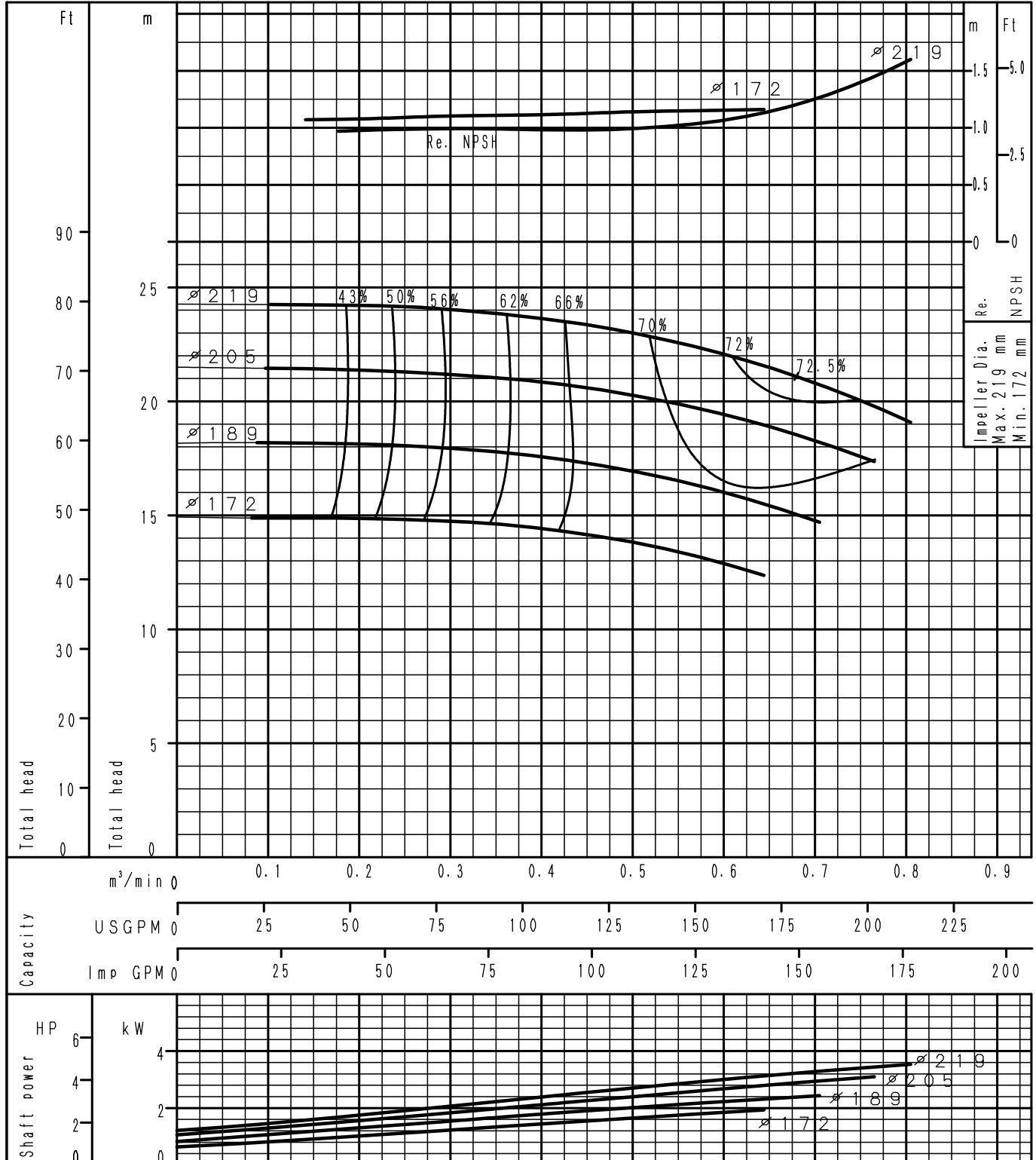
GS40-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

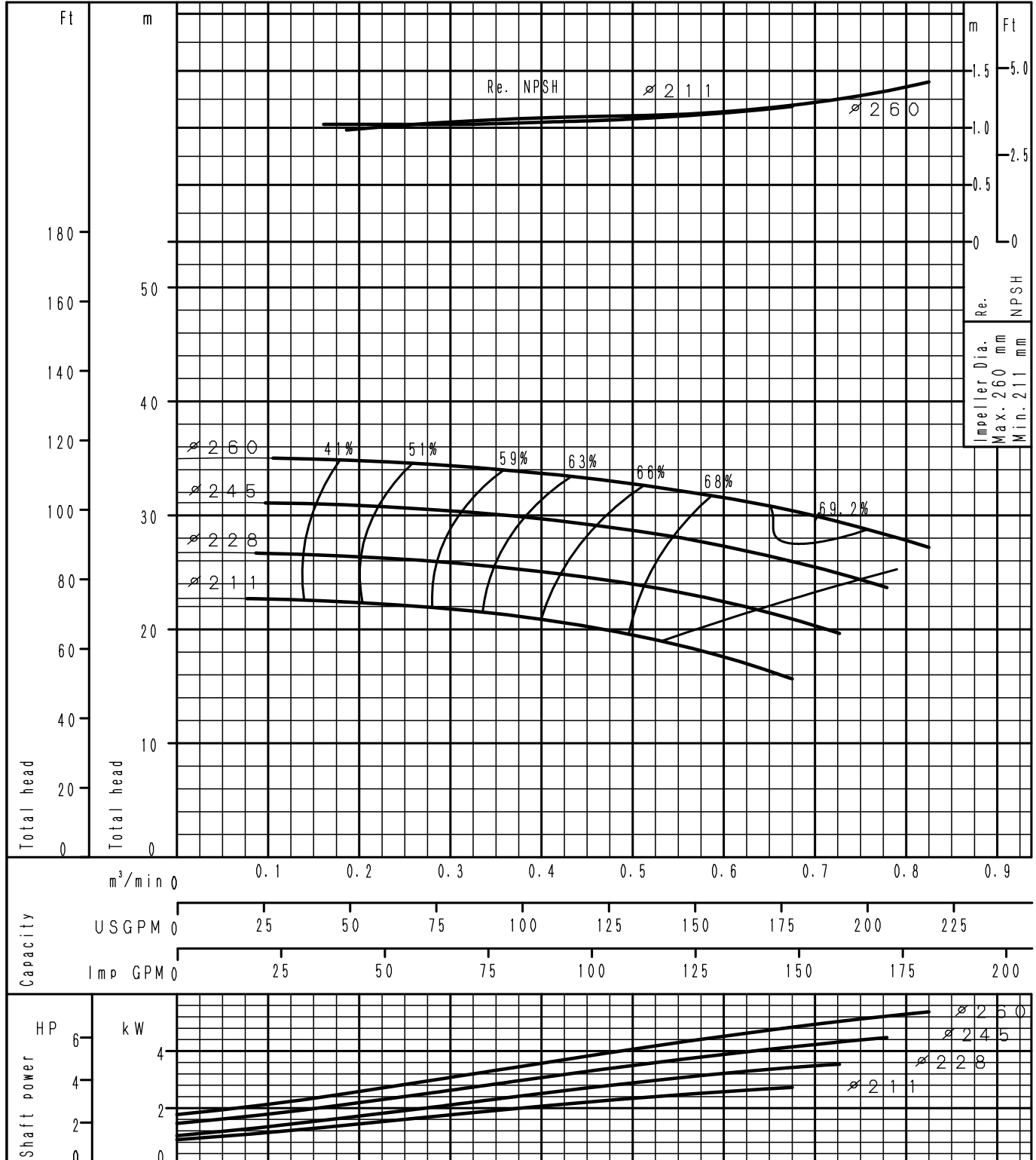
GS40-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

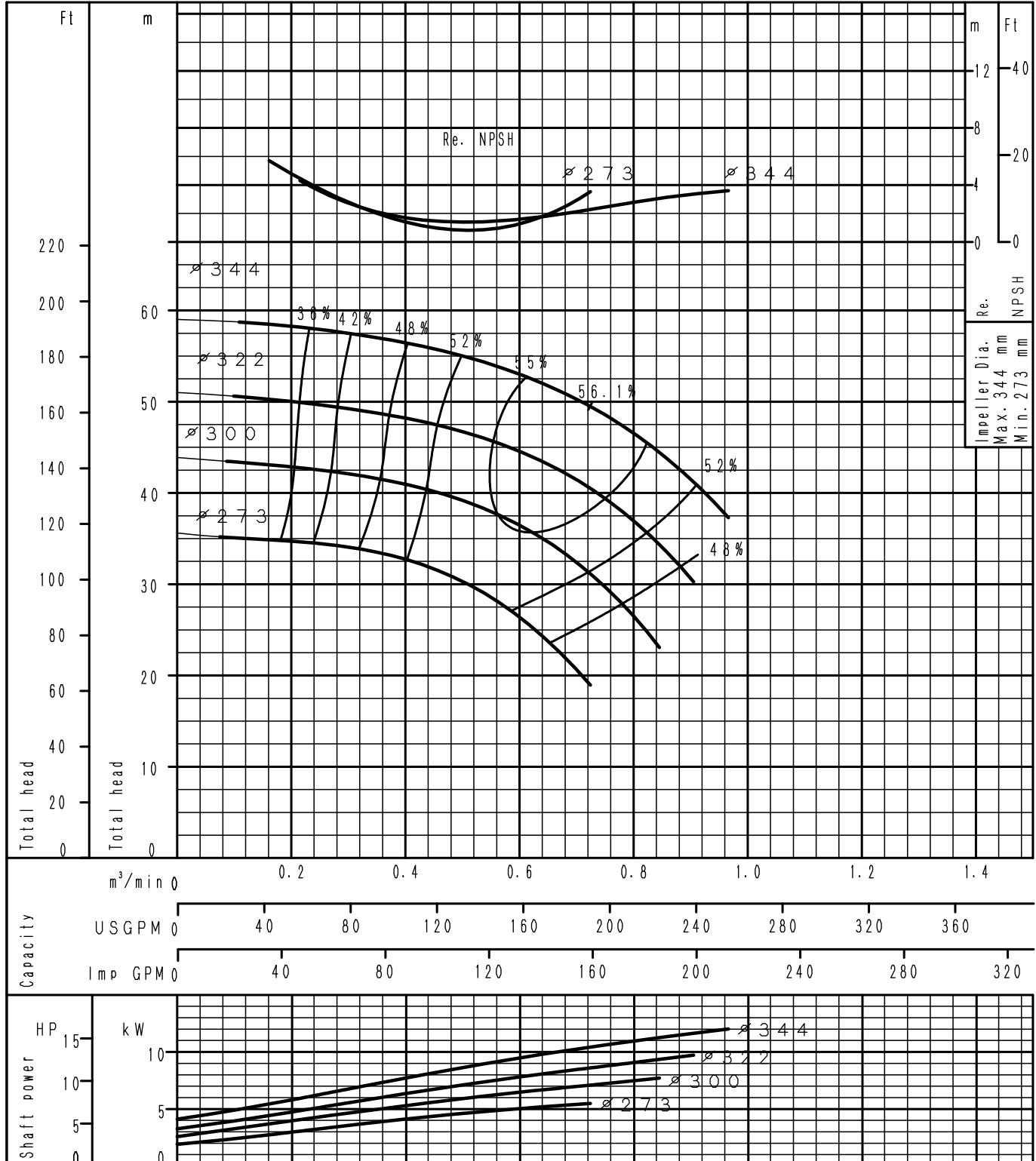
<h1 style="margin: 0;">GS40-250</h1>	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

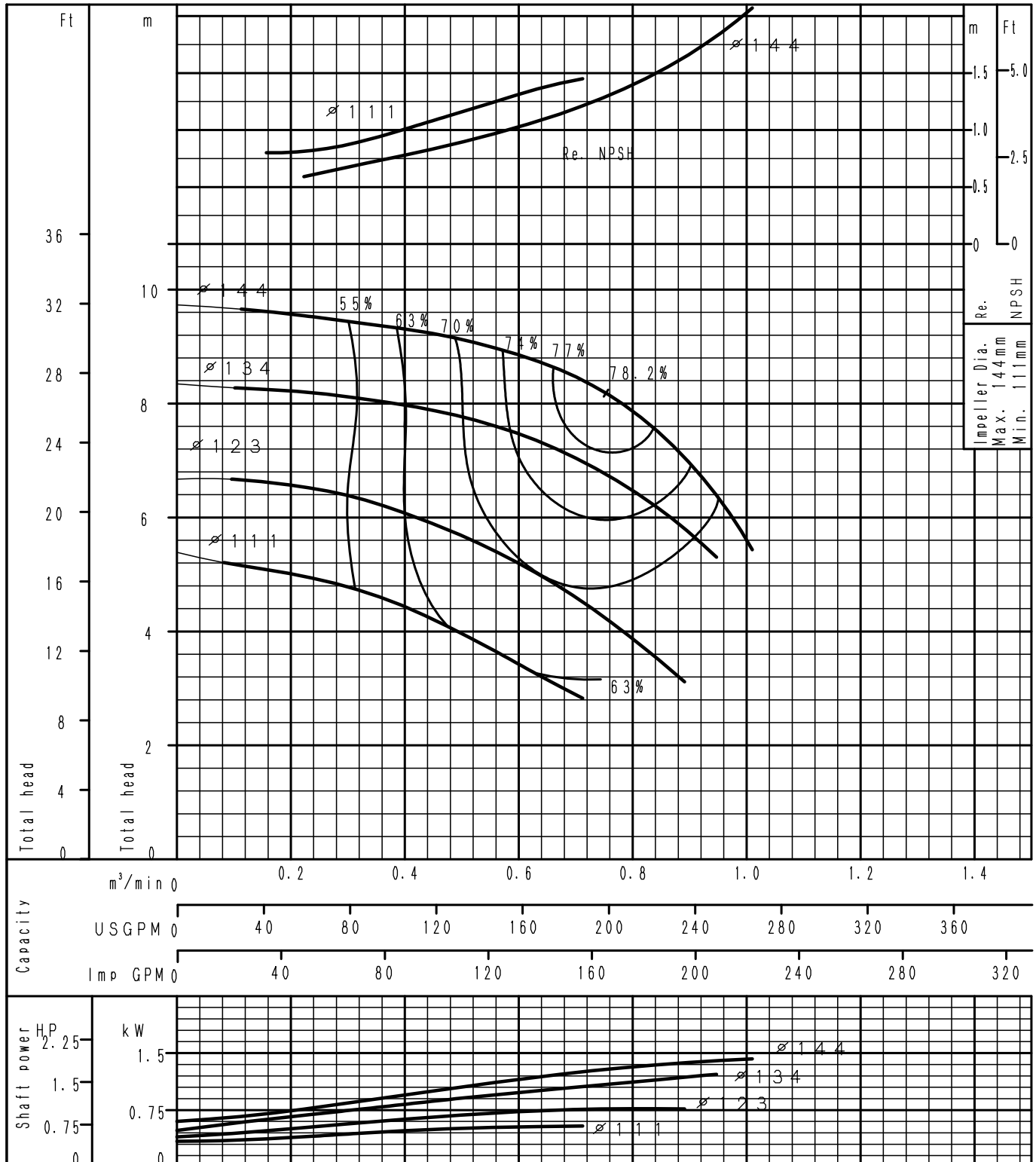
GS40-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

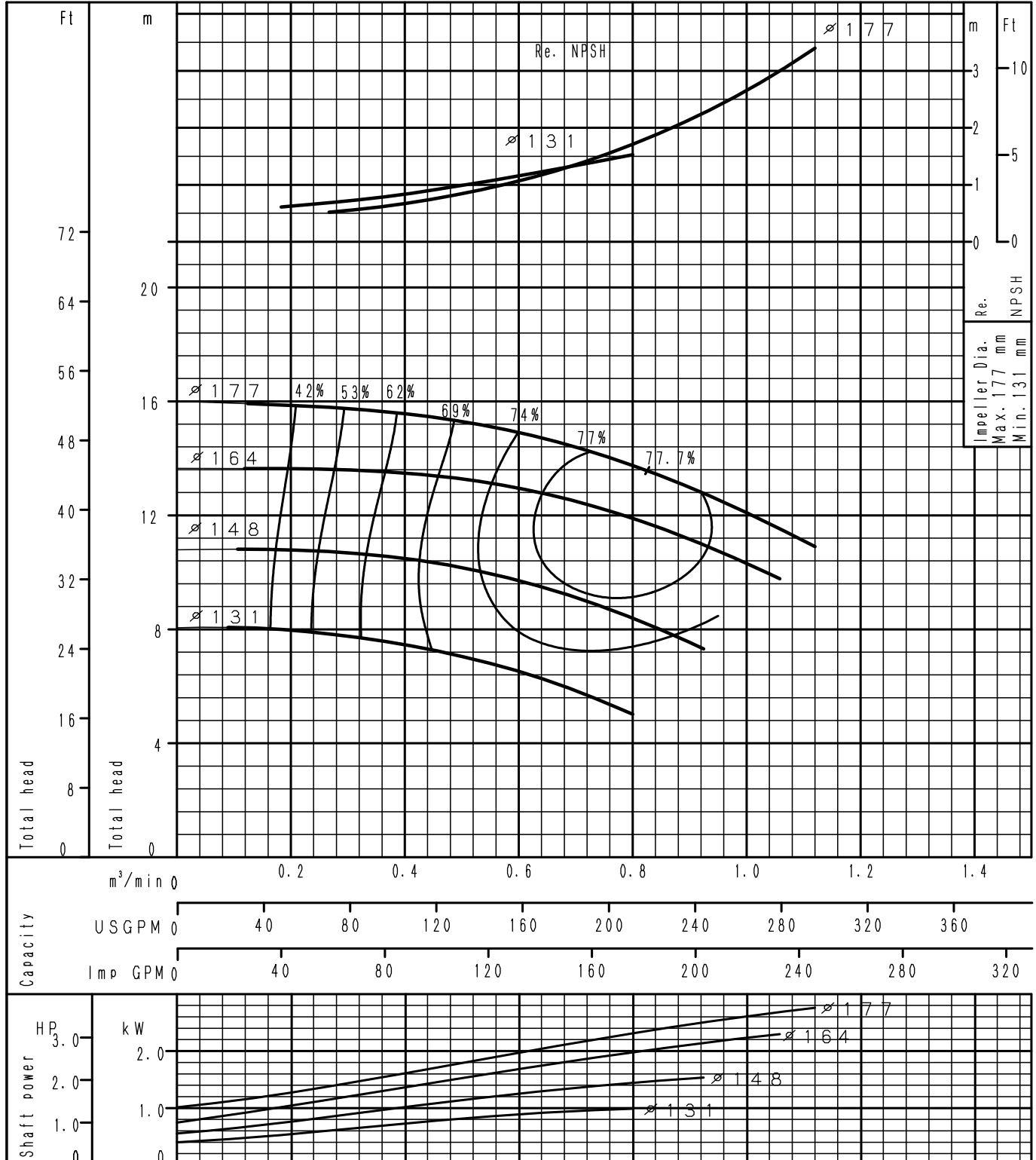
GS50-125	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

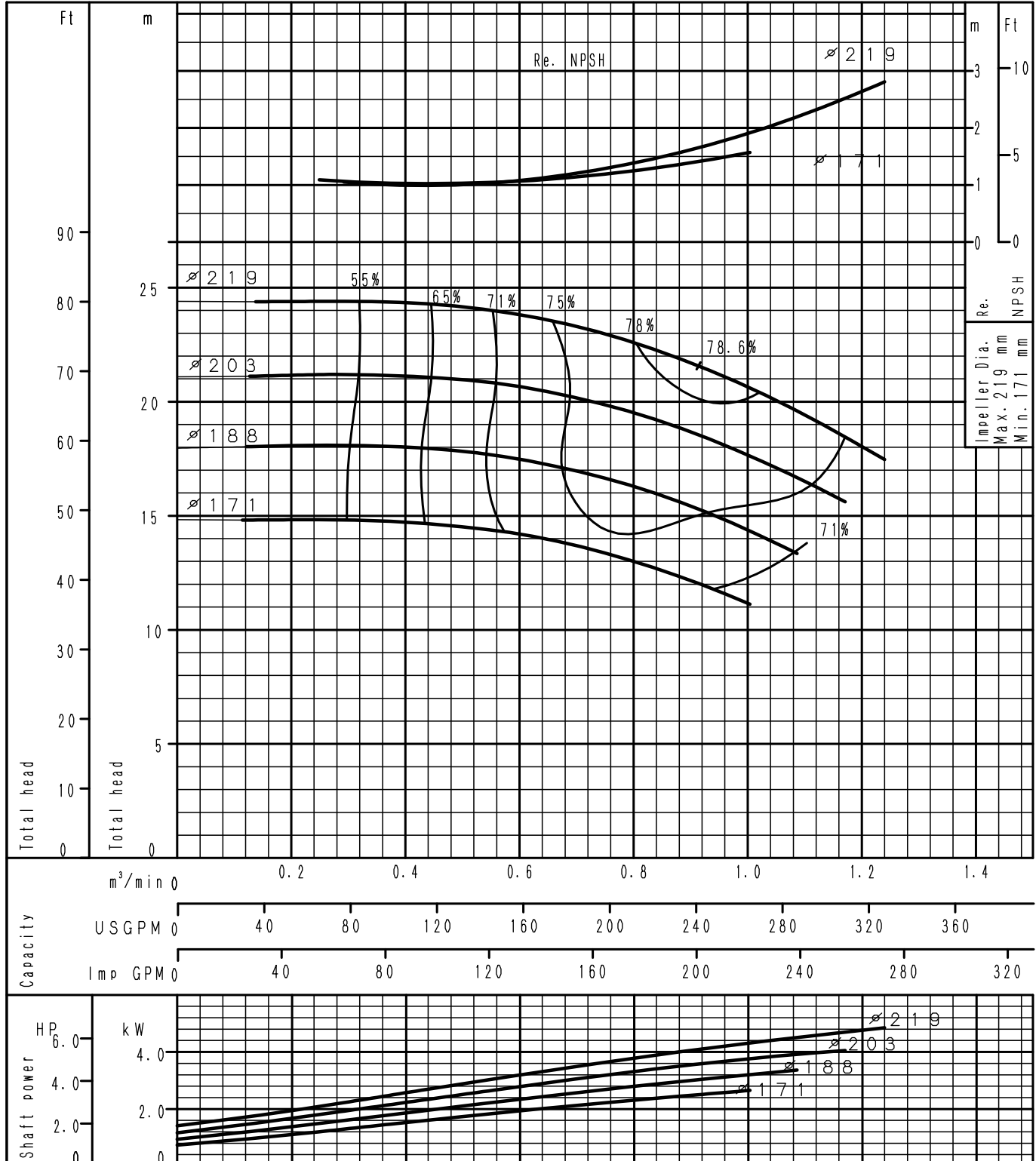
GS50-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

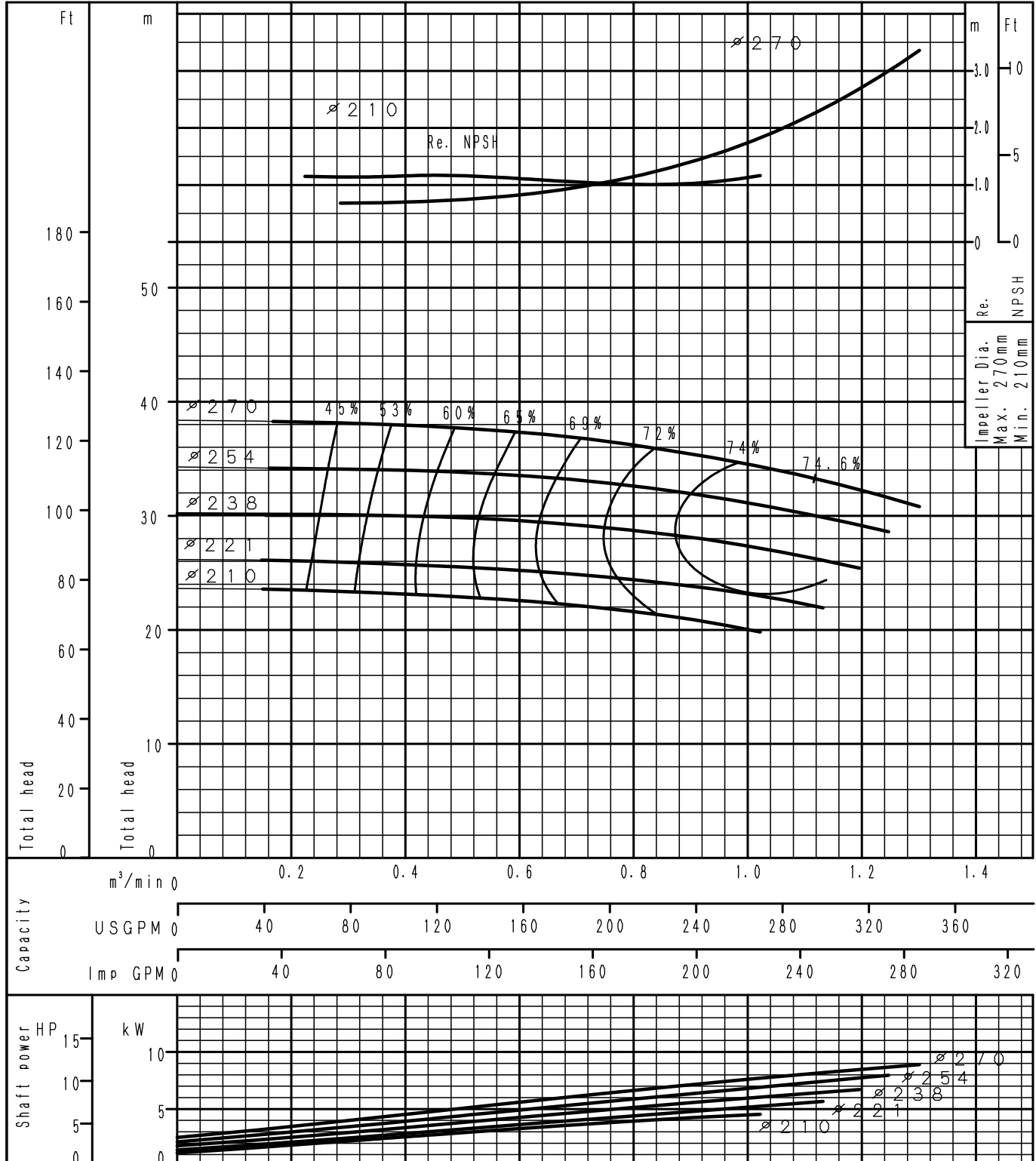
GS50-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

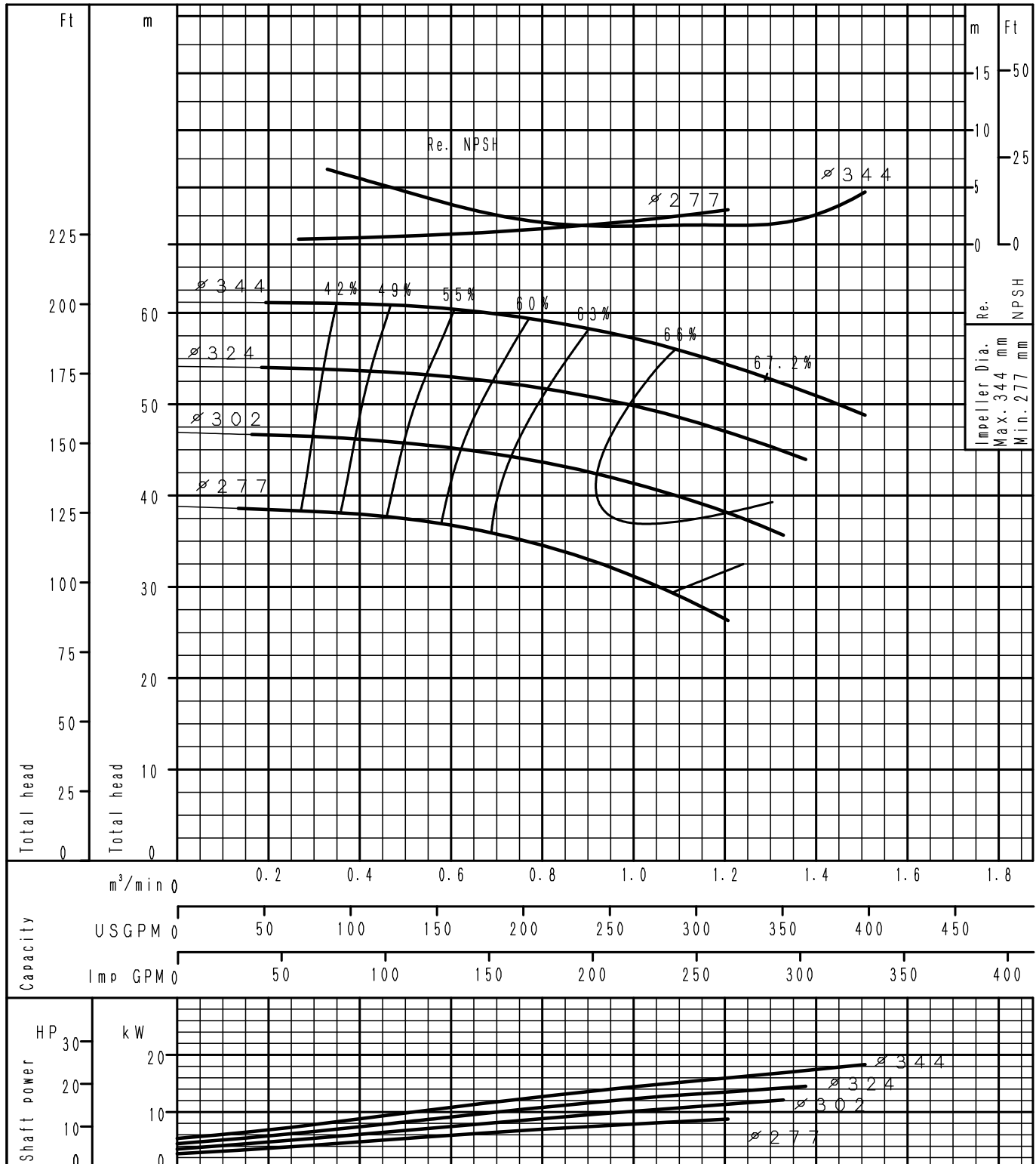
<h1 style="margin: 0;">GS50-250</h1>	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

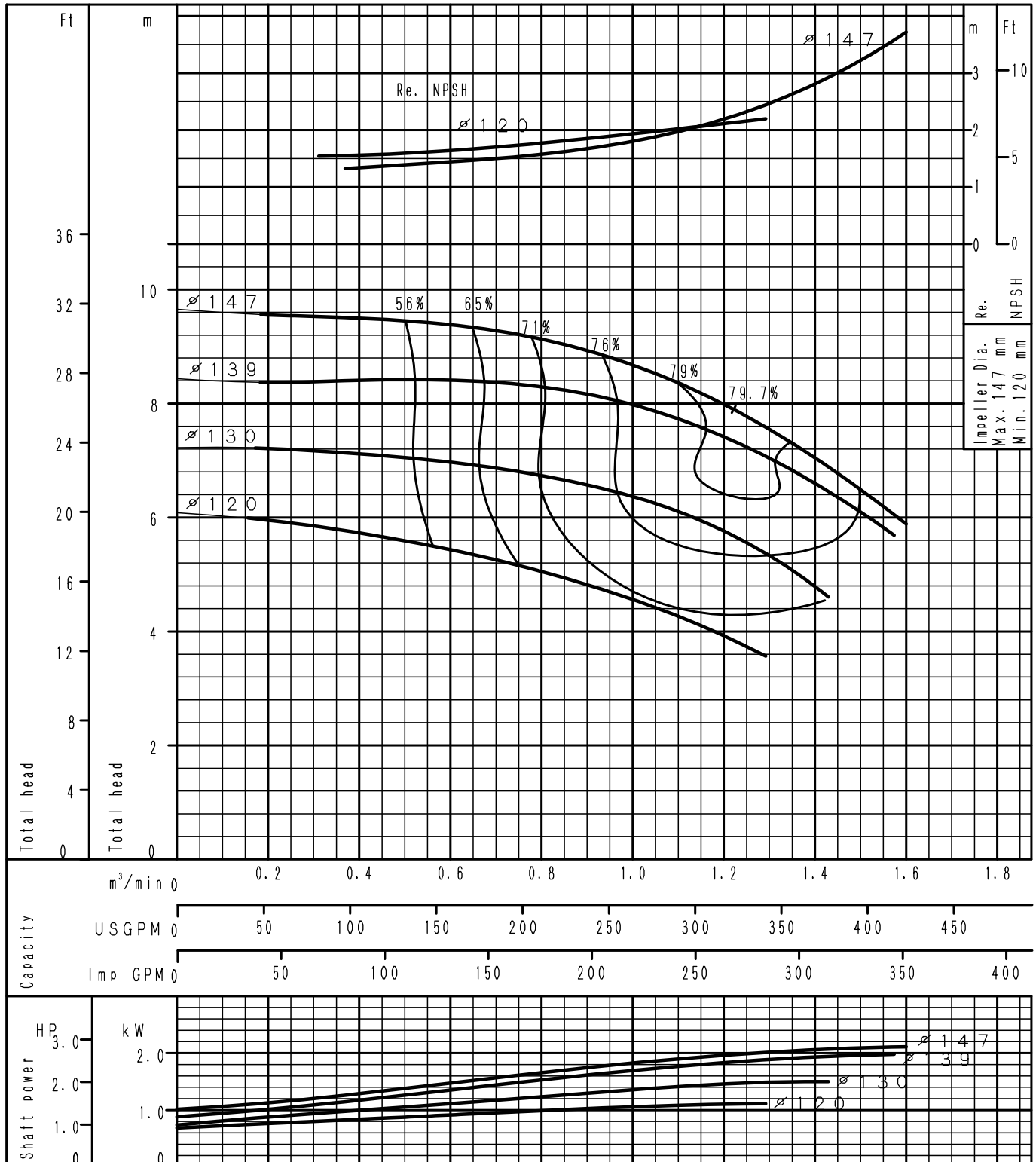
GS50-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

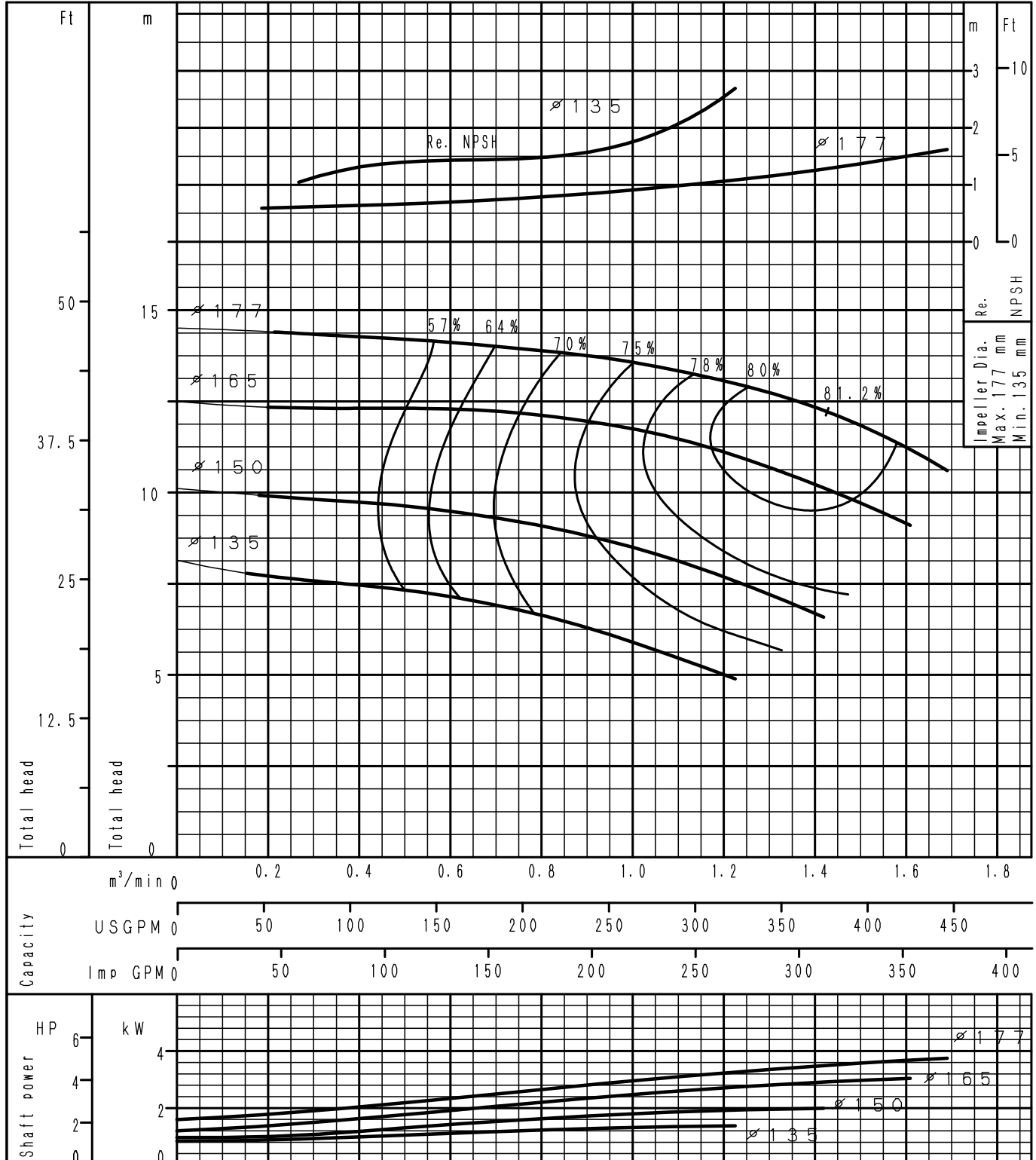
<h1 style="font-size: 2em; margin: 0;">GS65-125</h1>	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

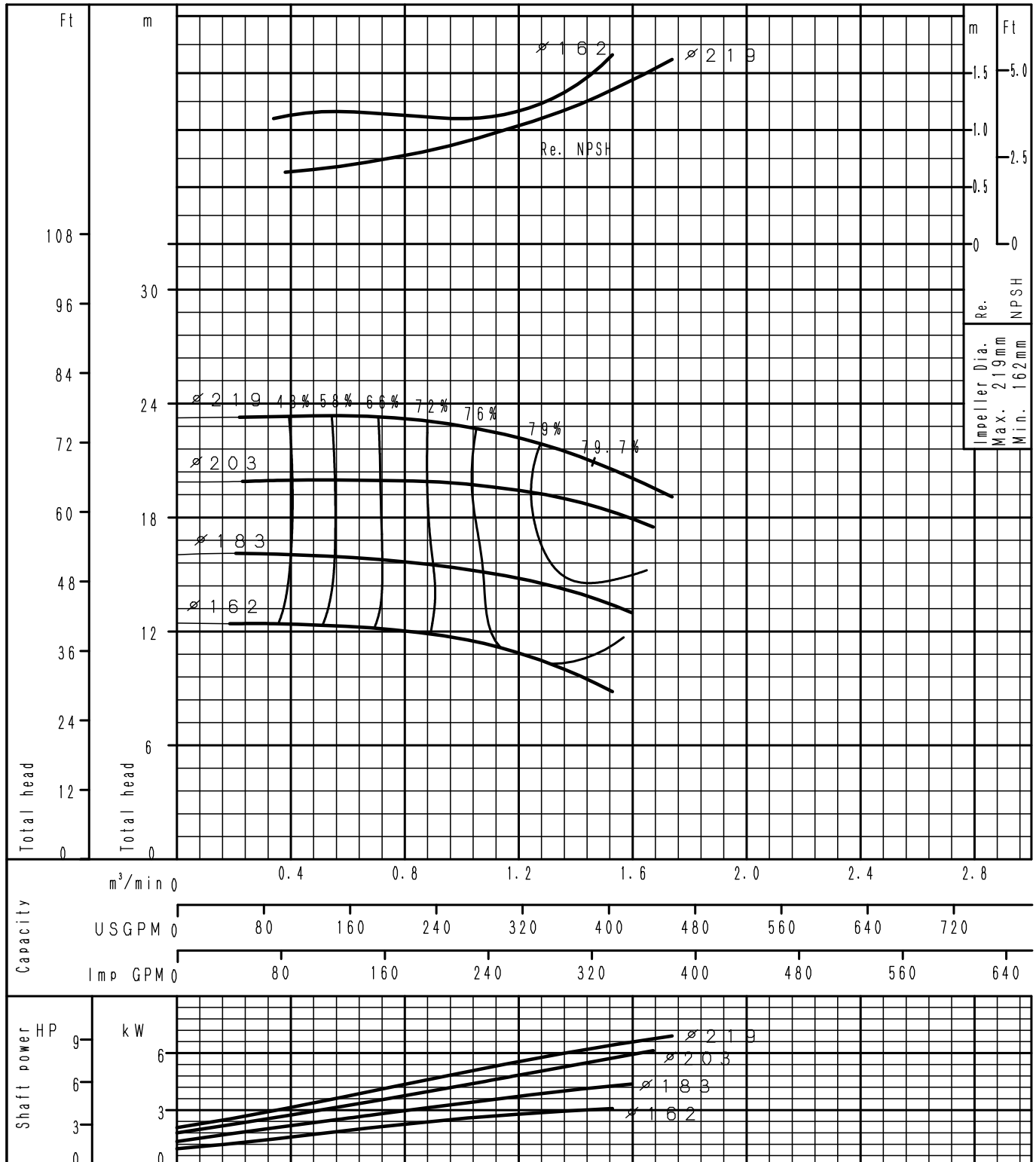
<h1 style="margin: 0;">GS65-160</h1>	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

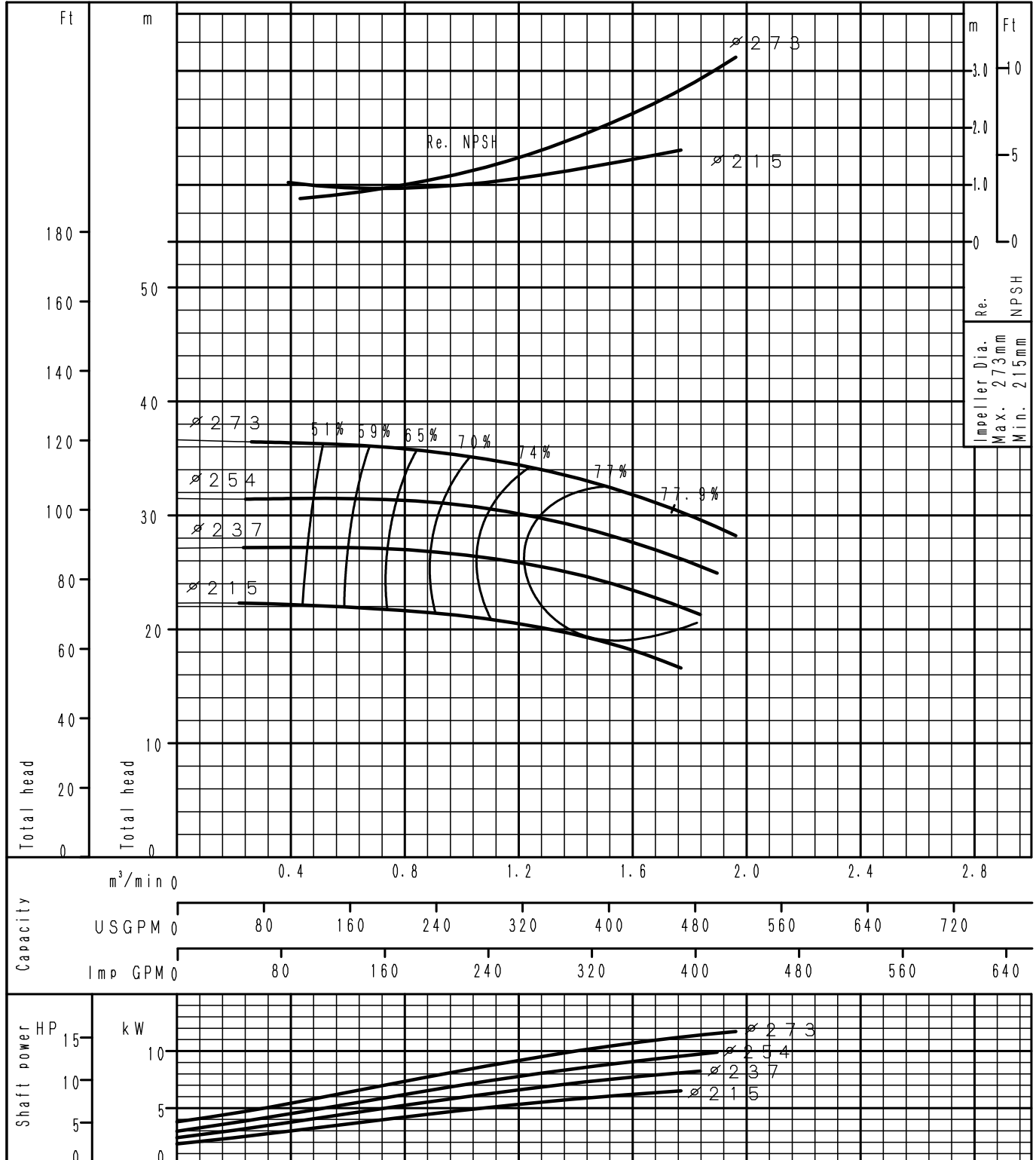
GS65-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

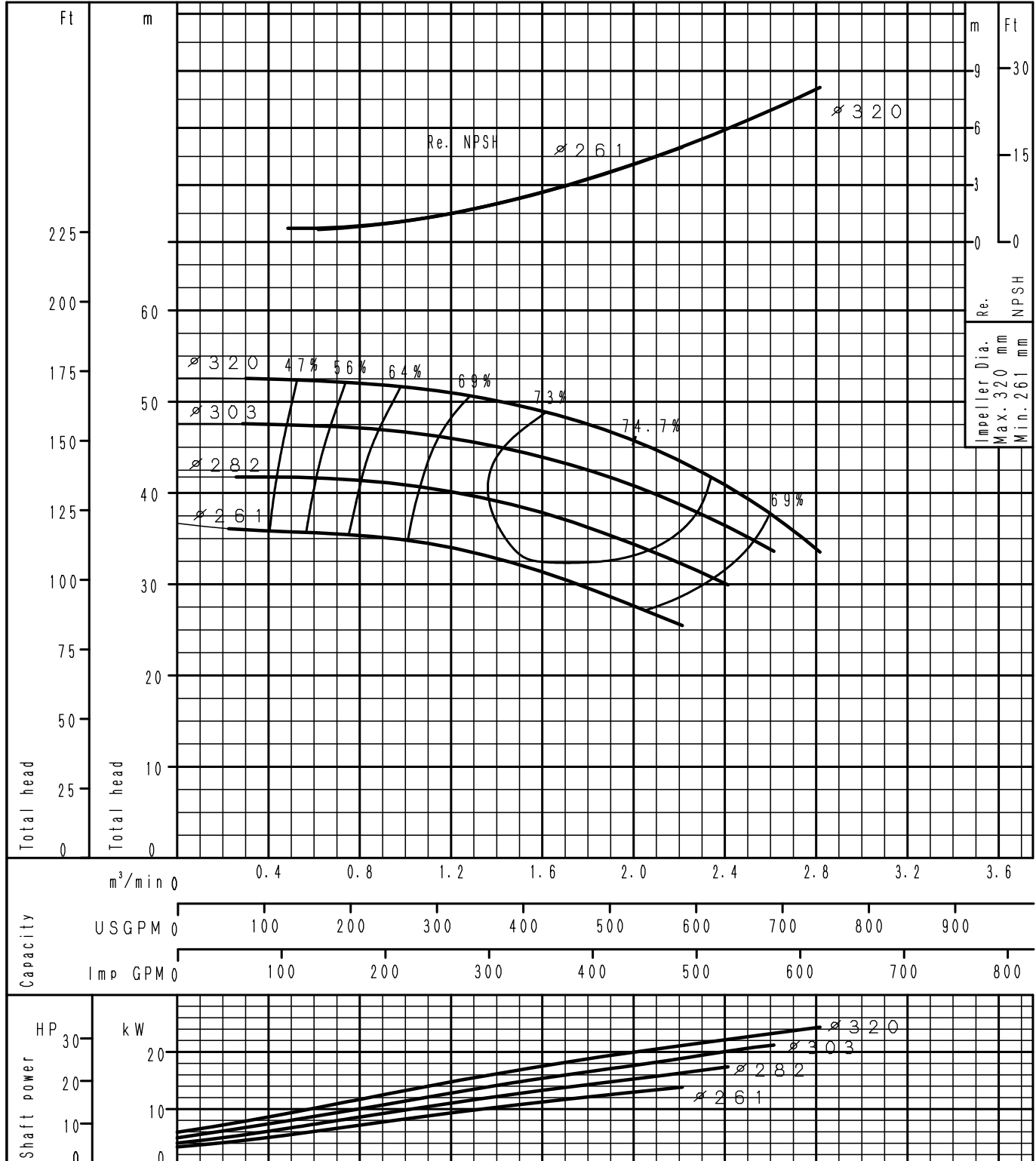
GS65-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

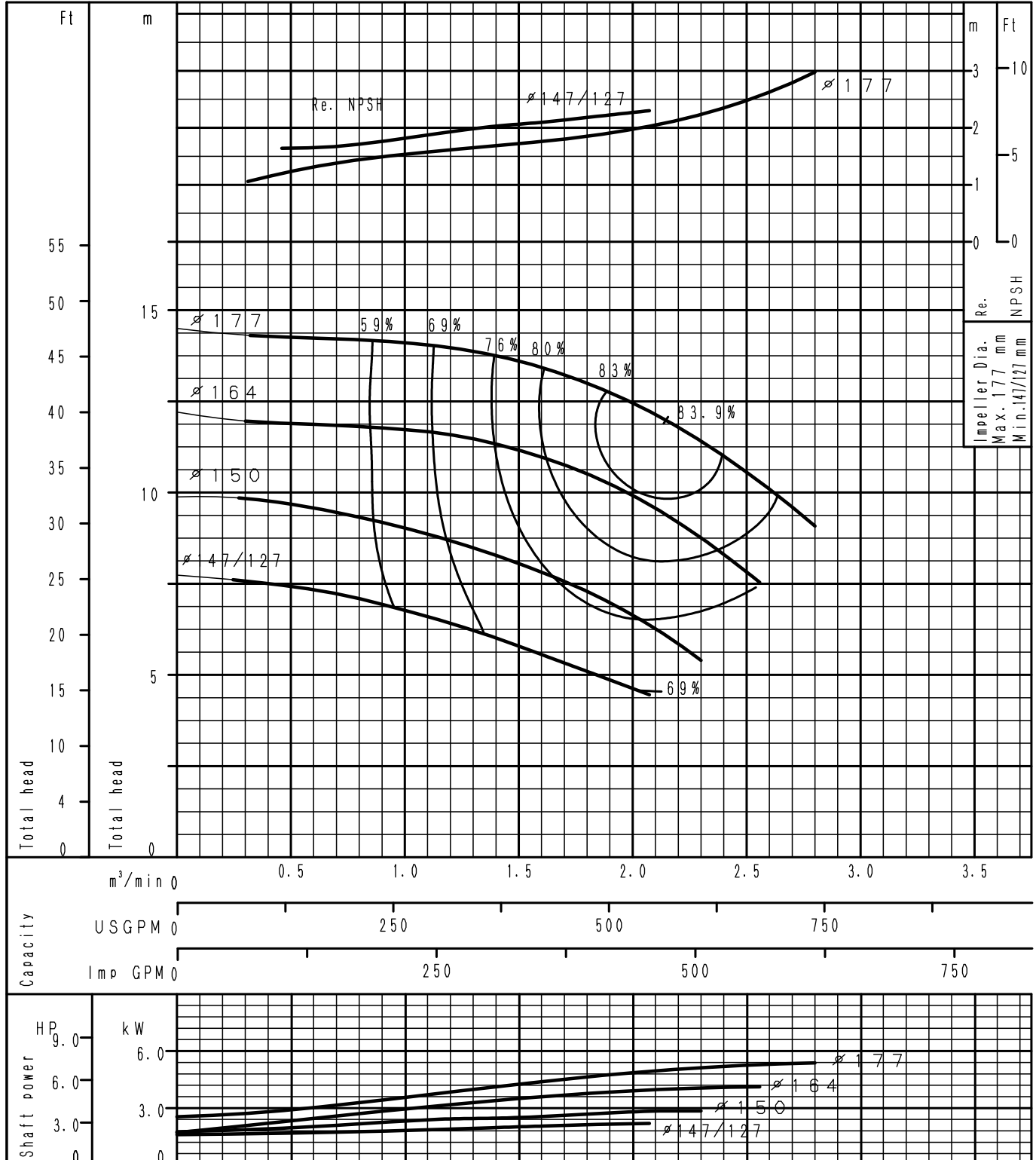
GS65-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	
DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s	



Performance Curve

4 Poles

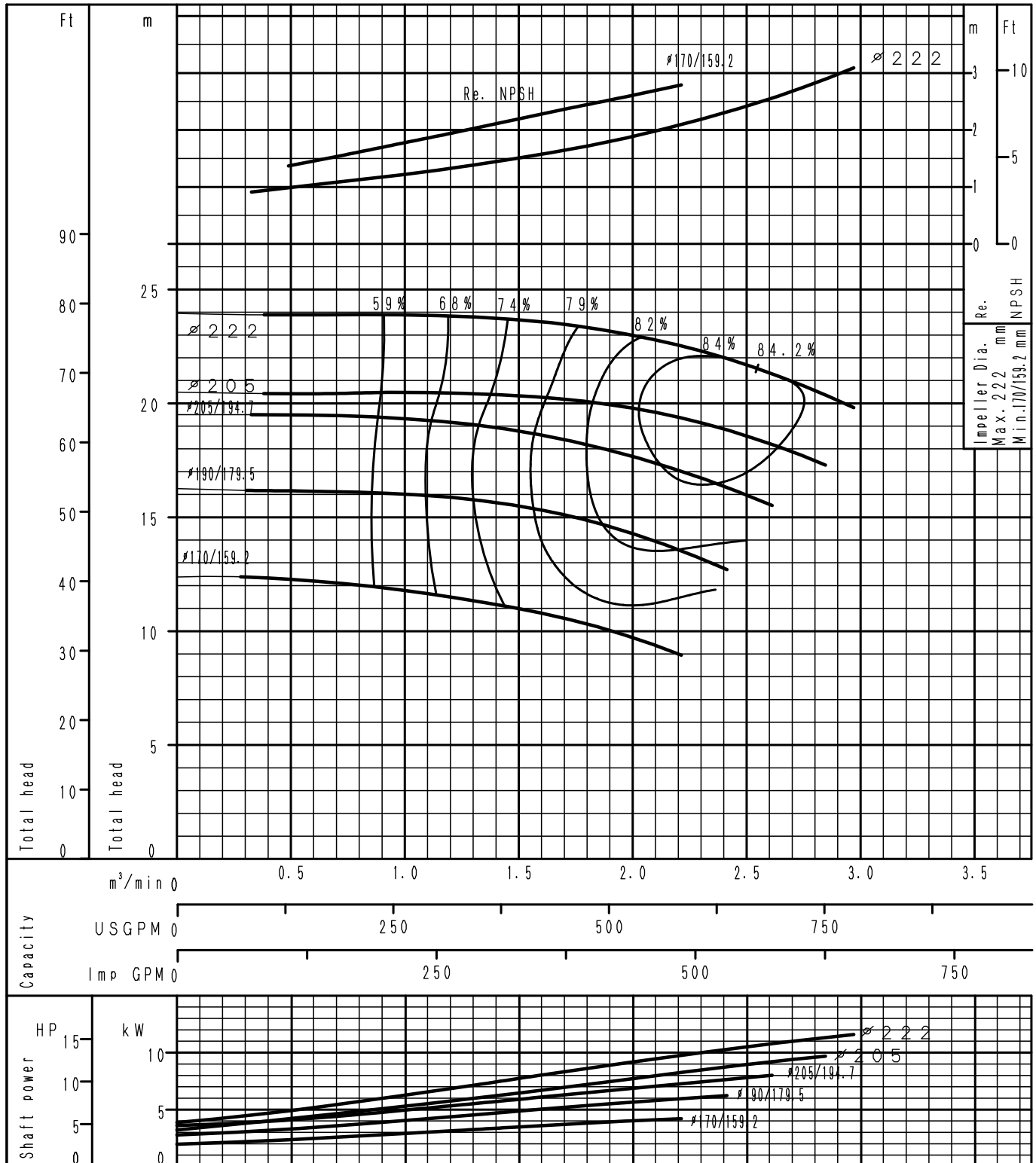
GS80-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

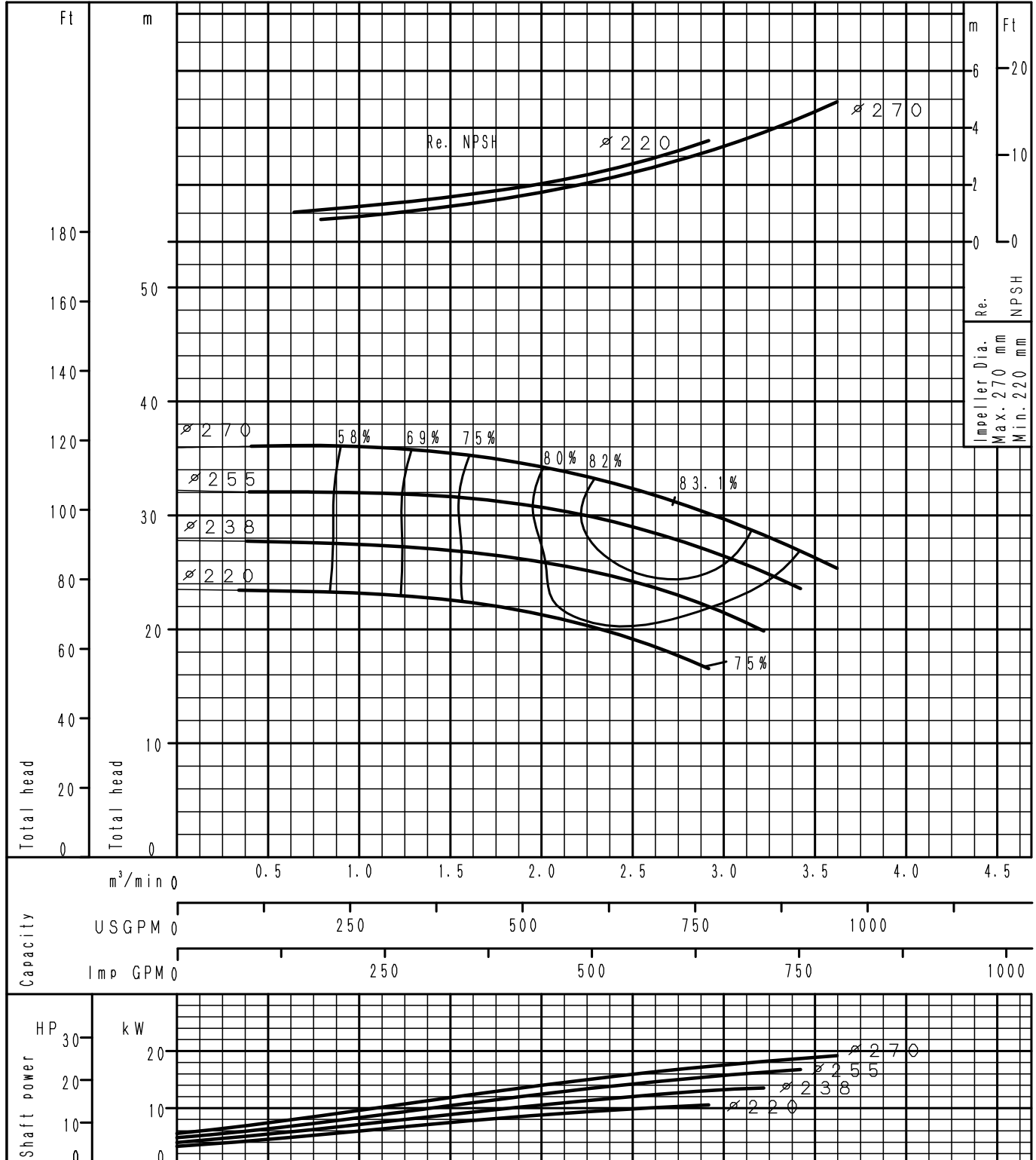
GS80-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

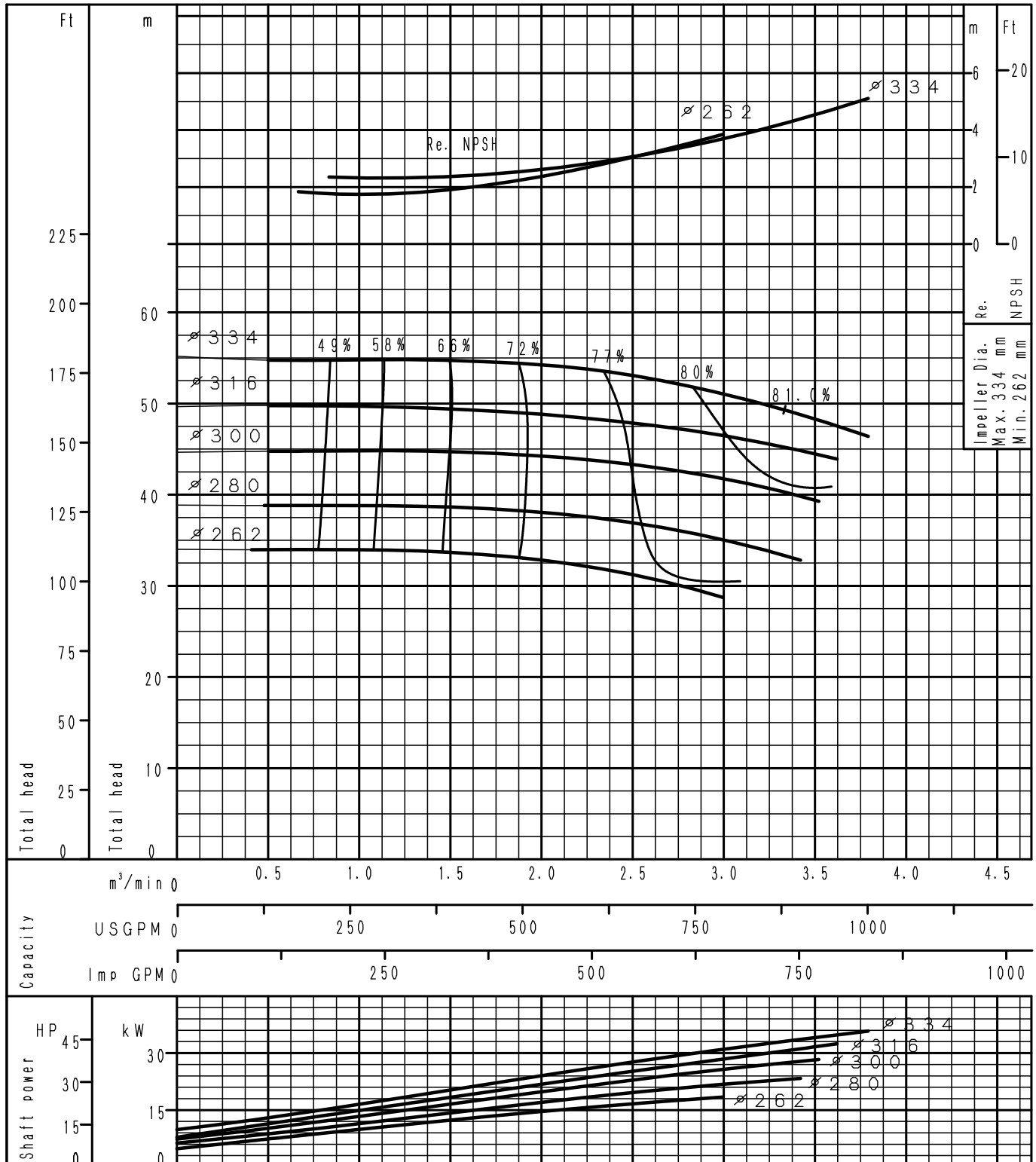
GS80-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

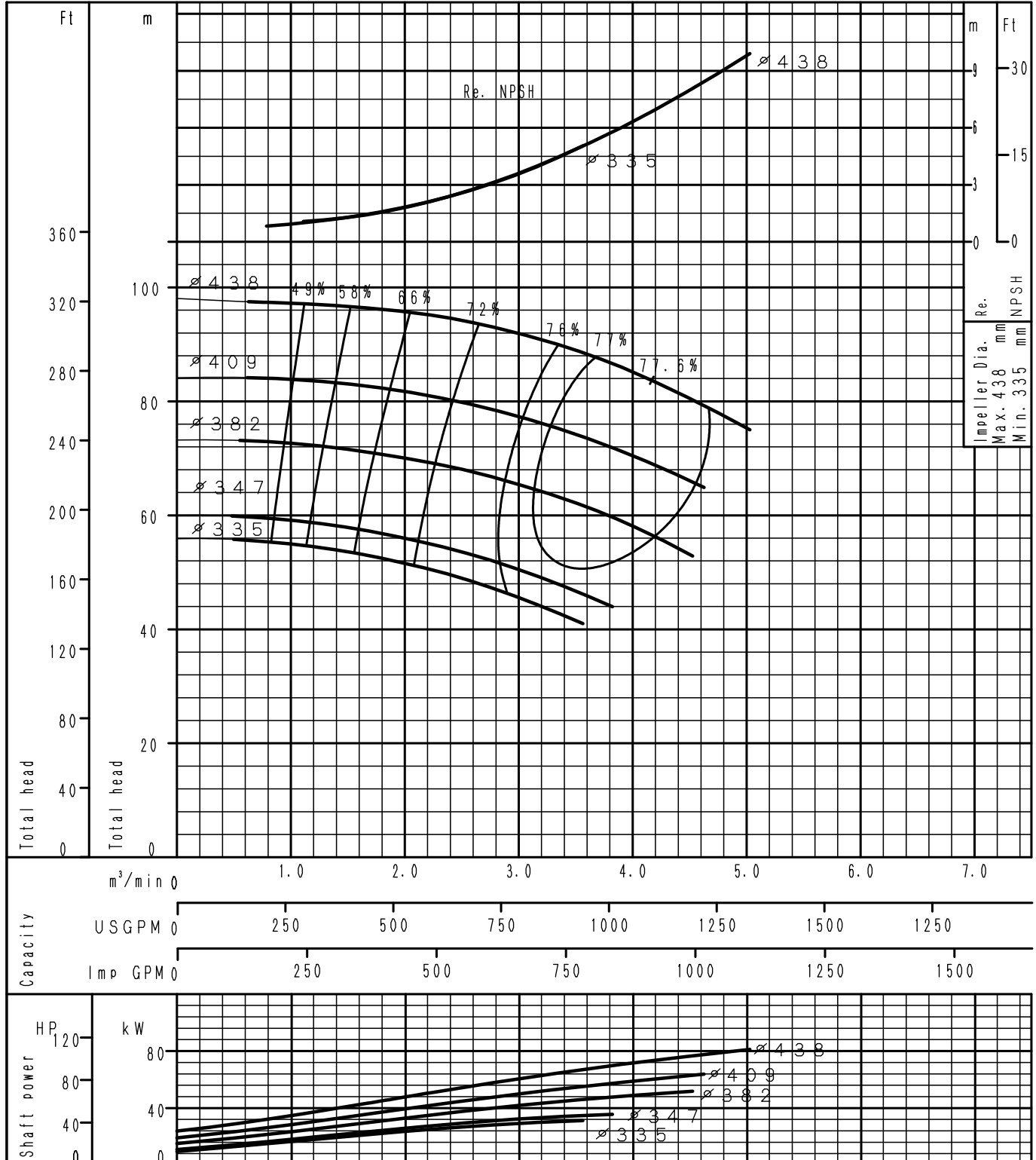
GS80-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

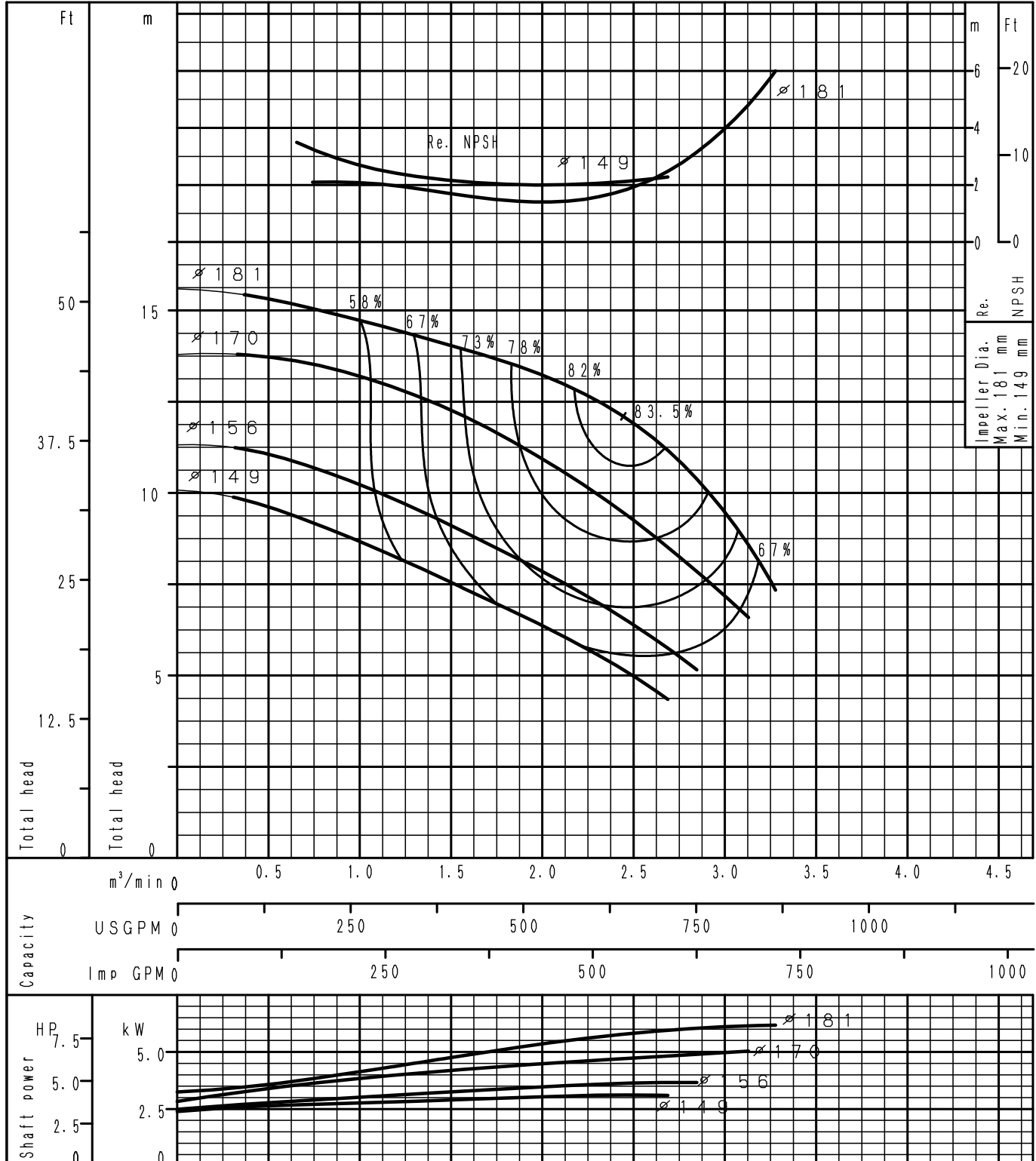
GS80-400	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

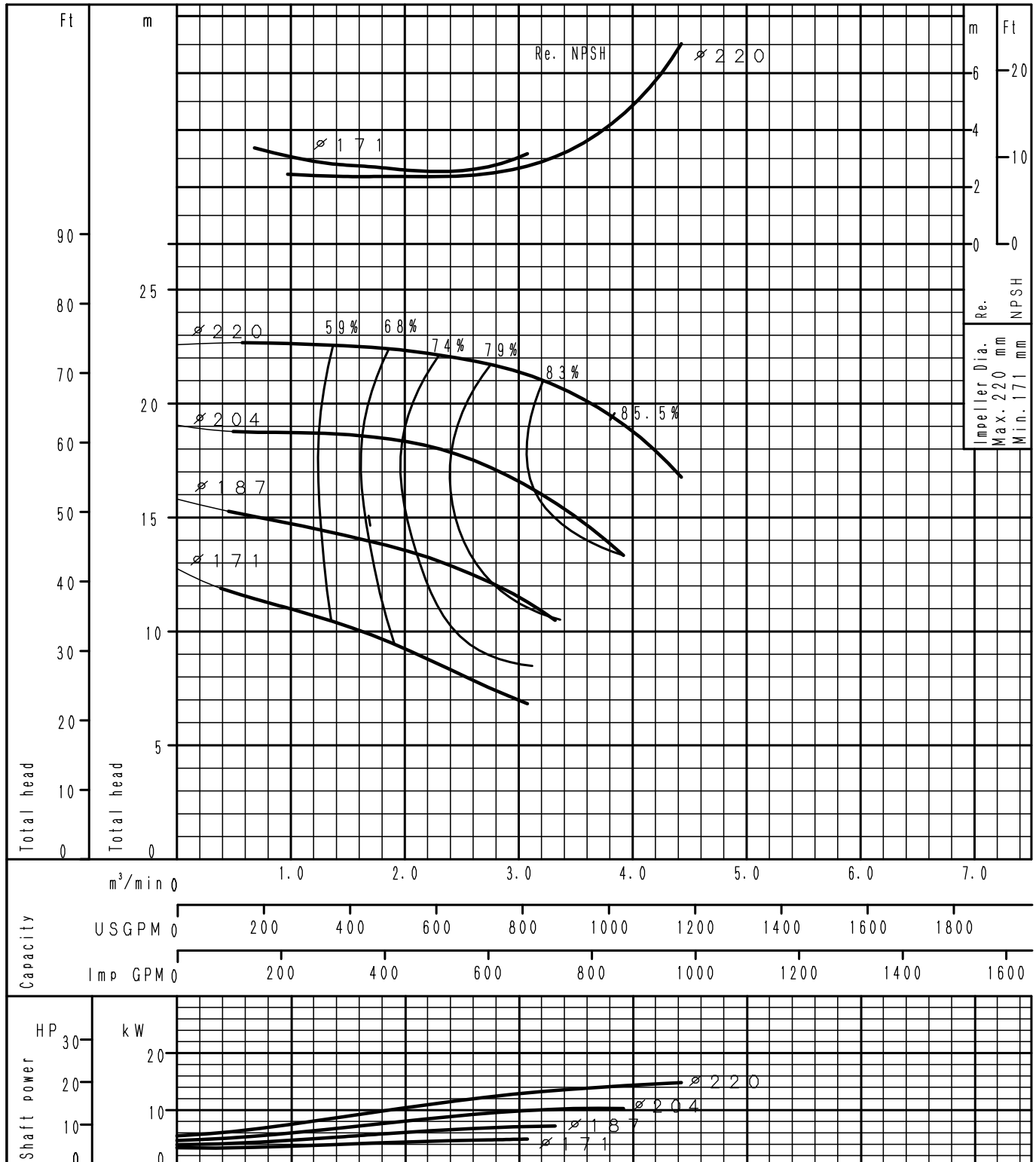
GS100-160	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

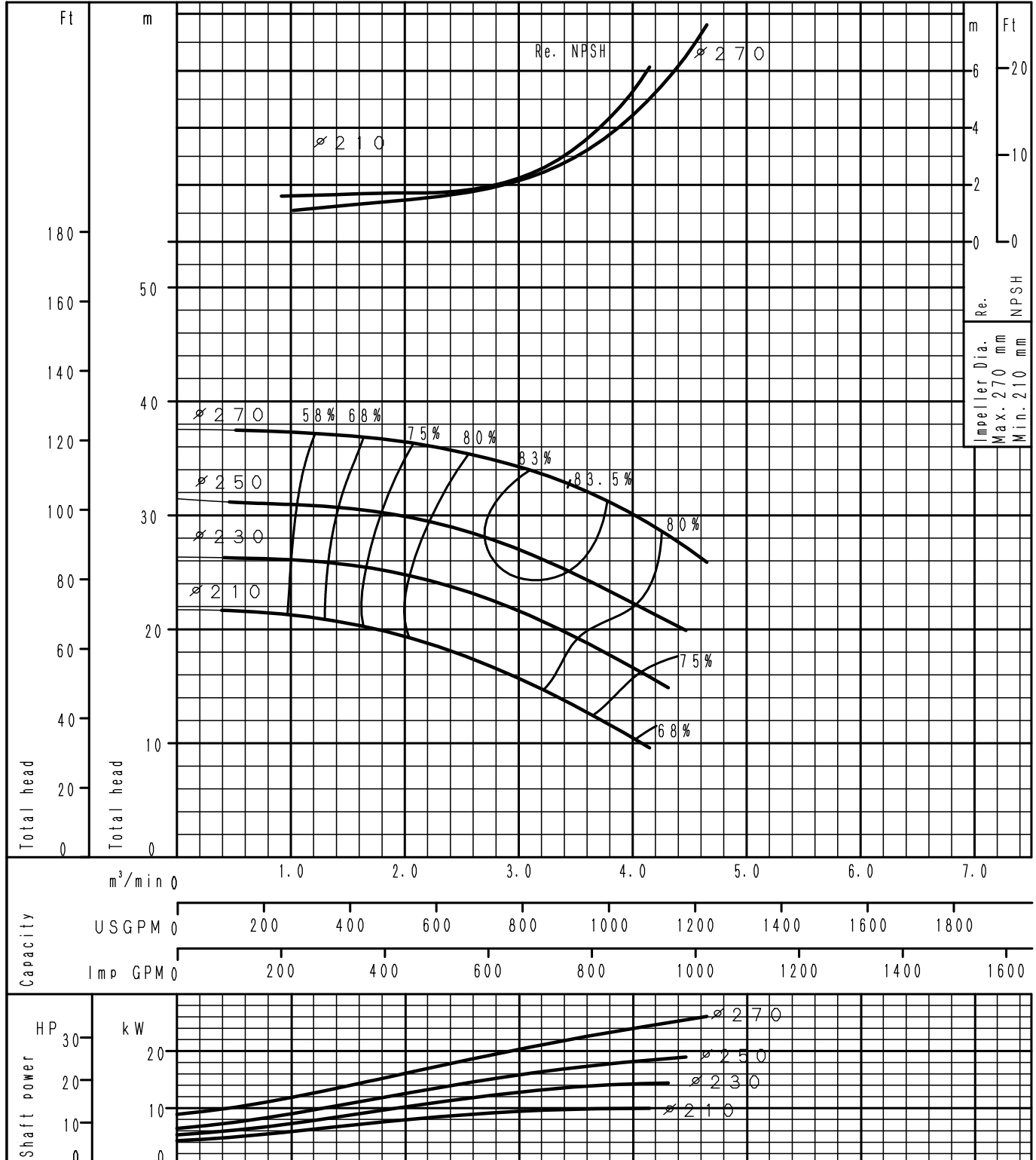
GS100-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

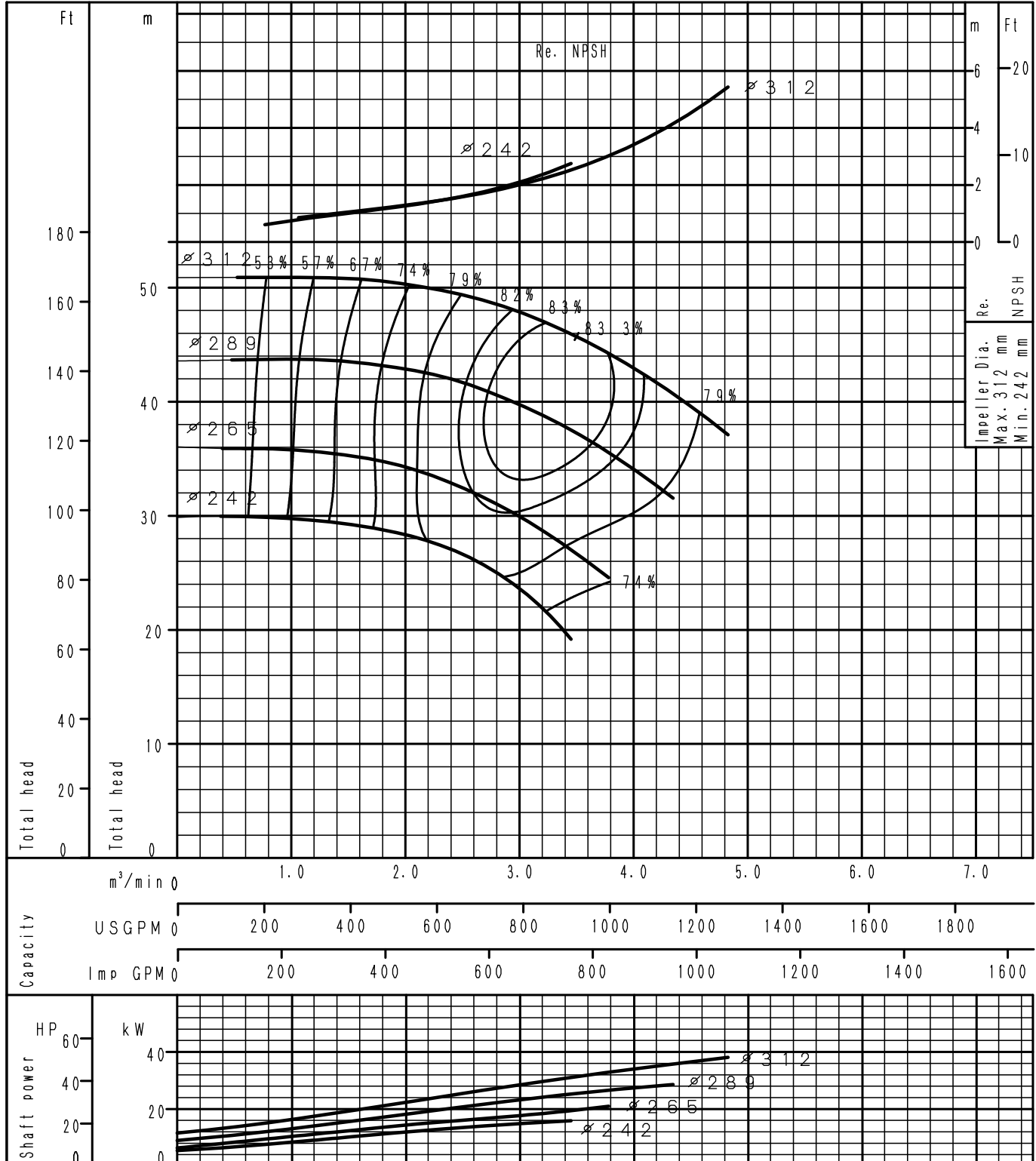
GS100-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

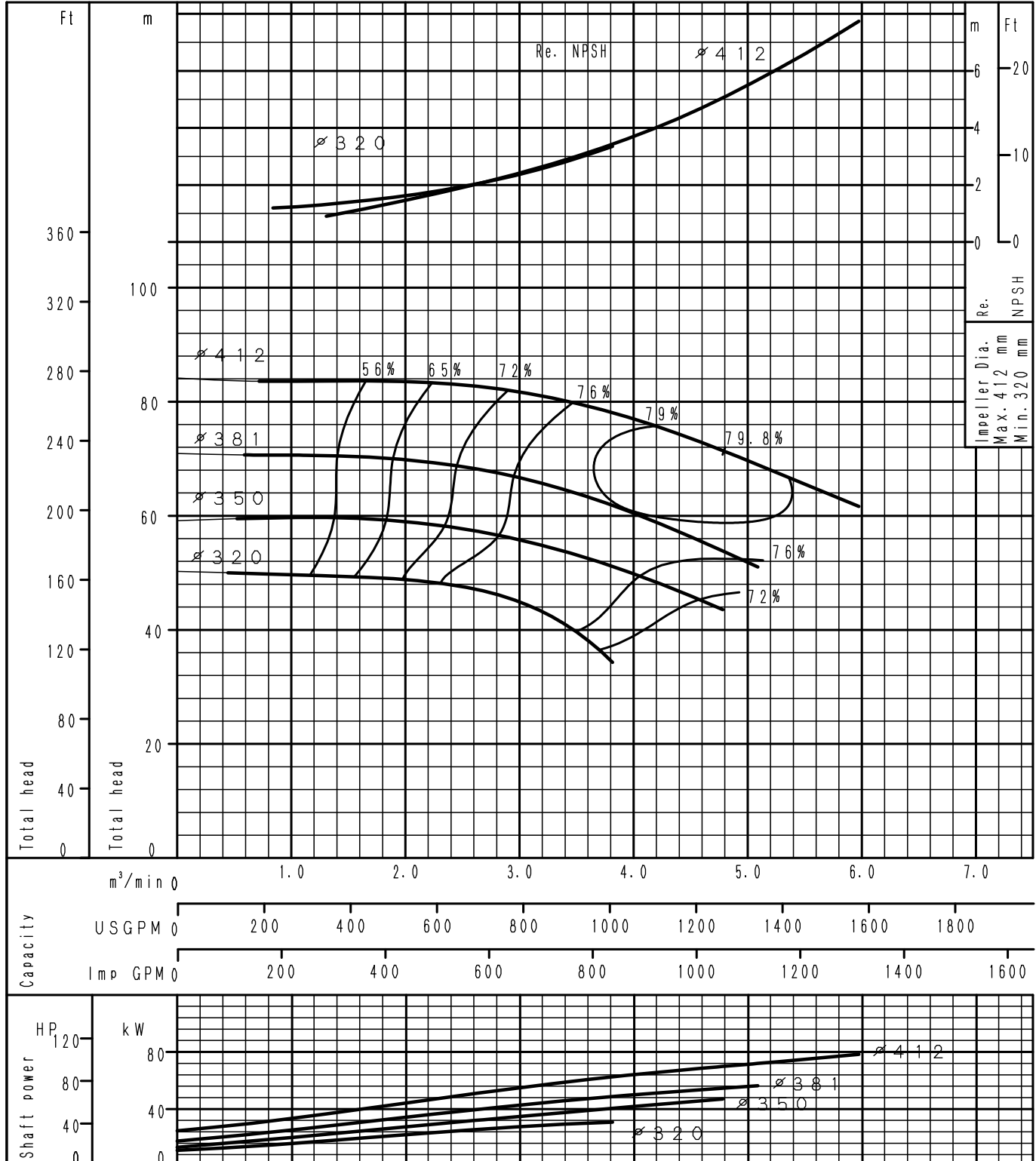
GS100-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

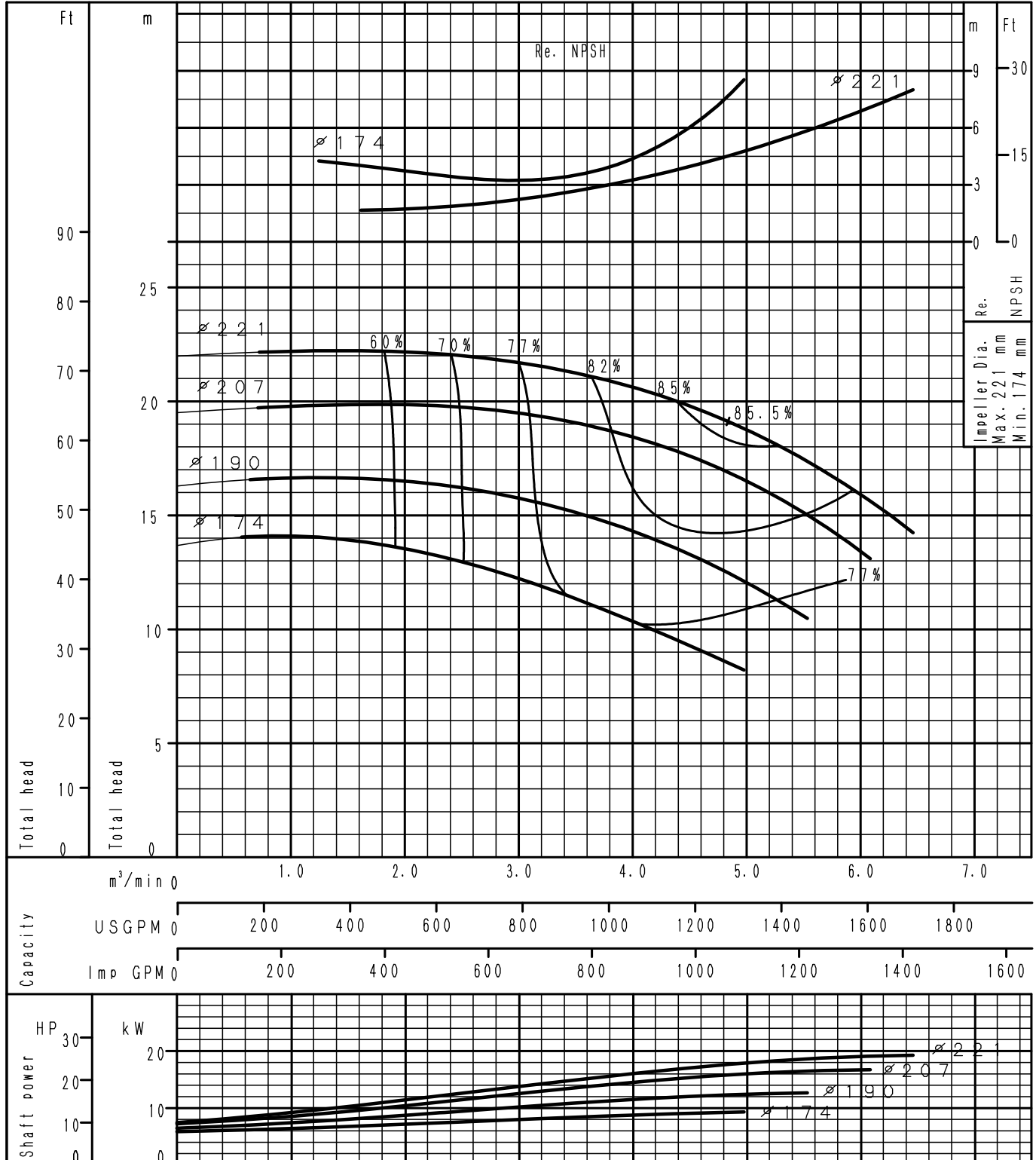
GS100-400	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

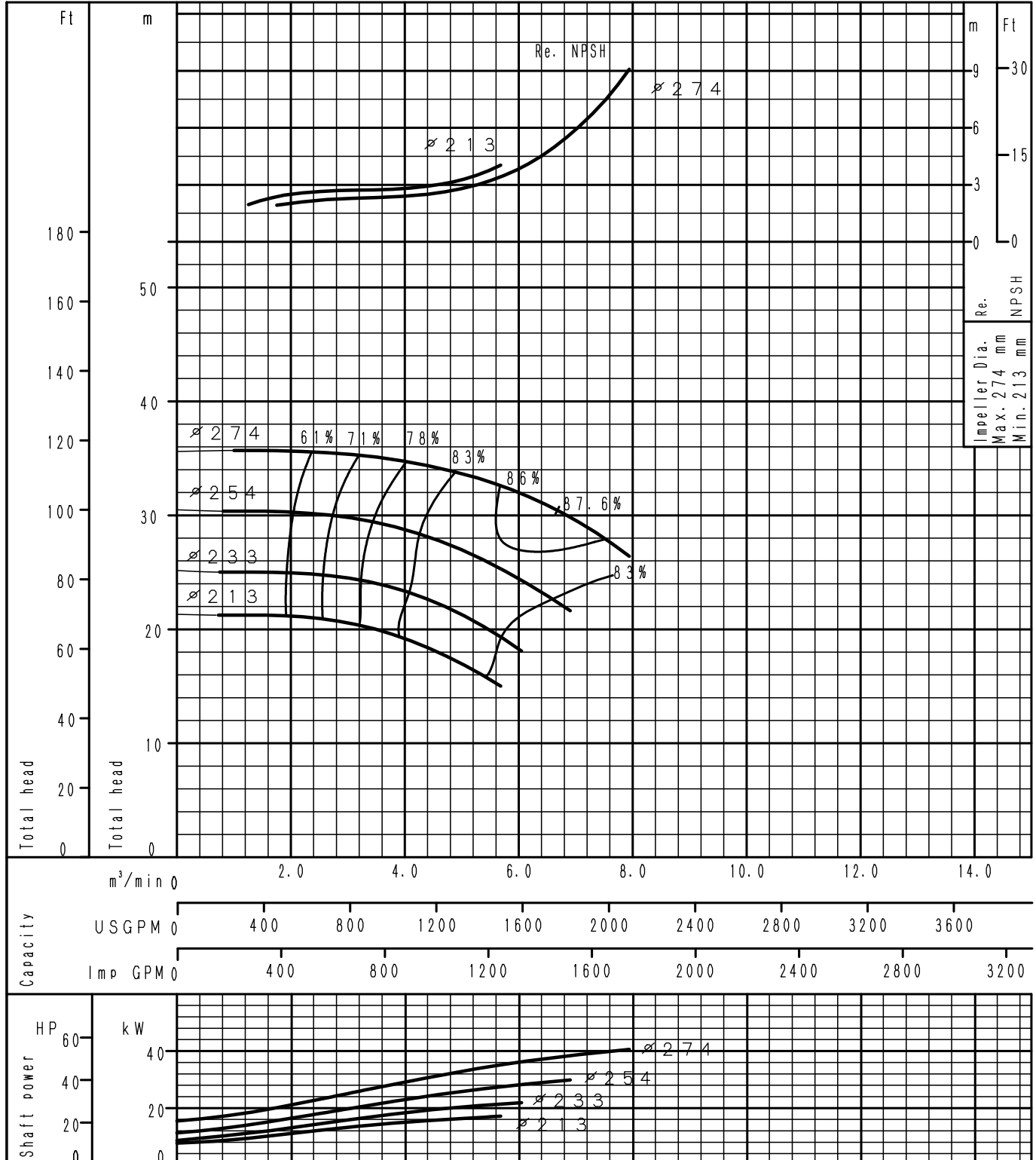
GS125-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

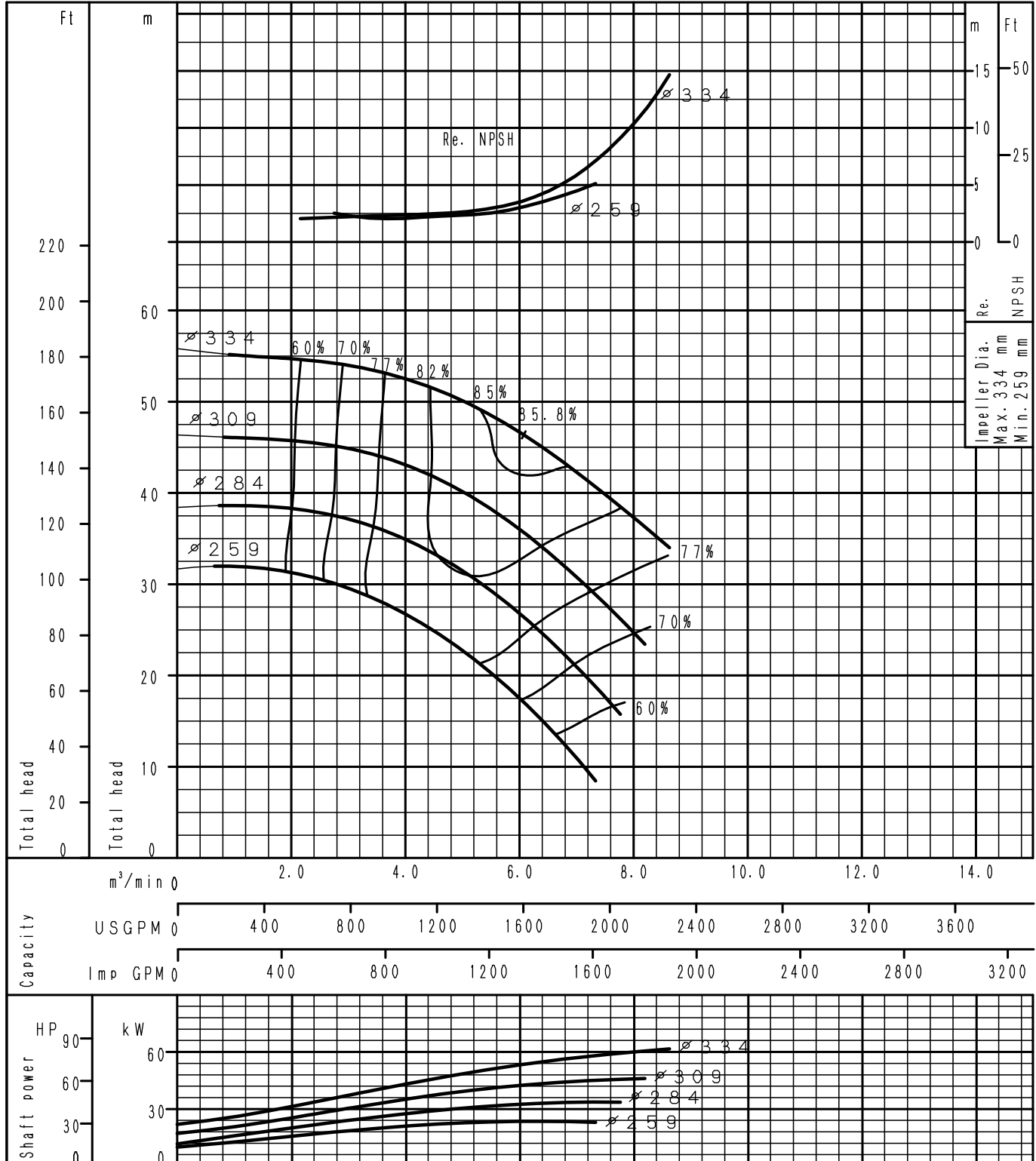
GS125-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

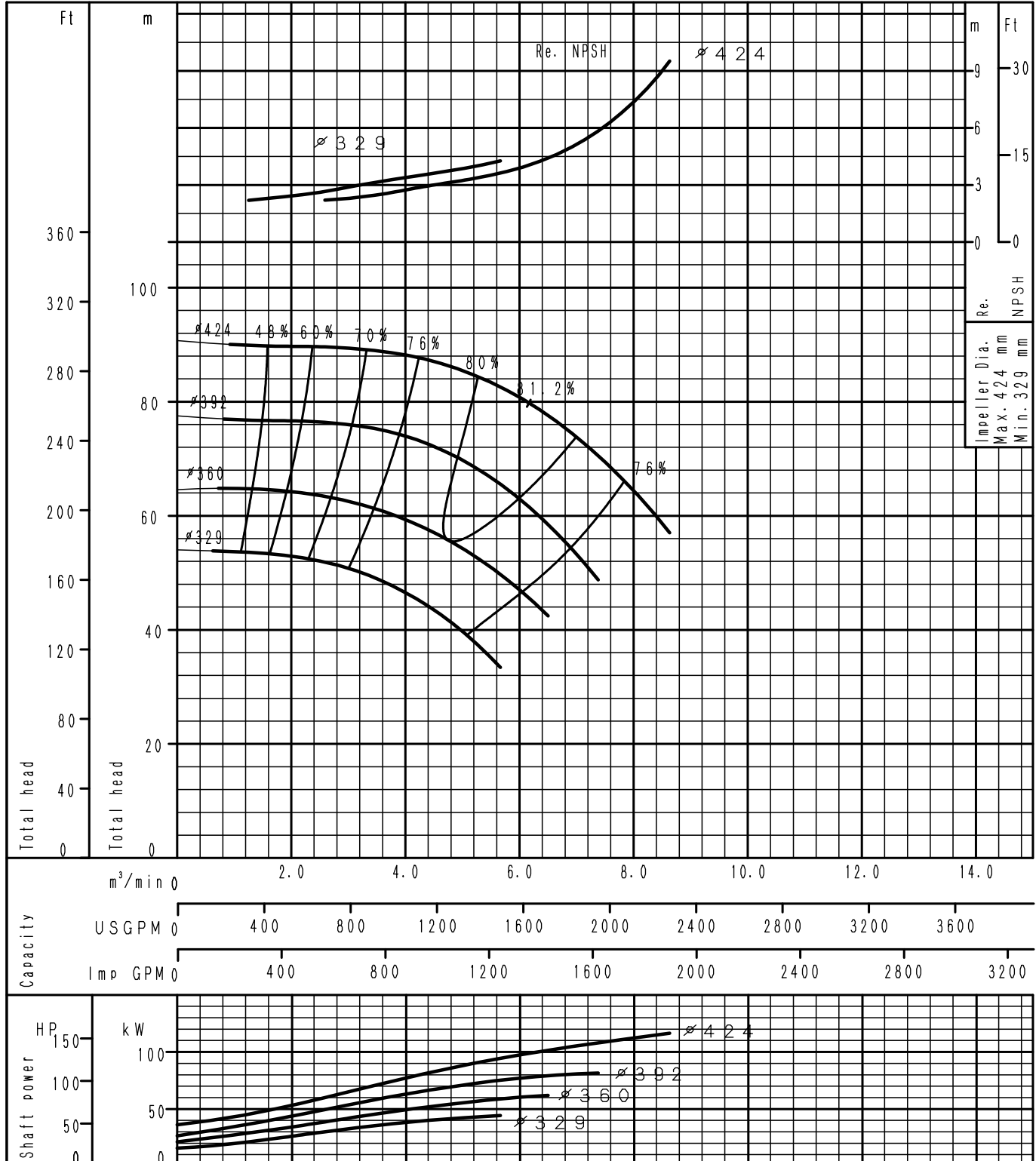
GS125-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

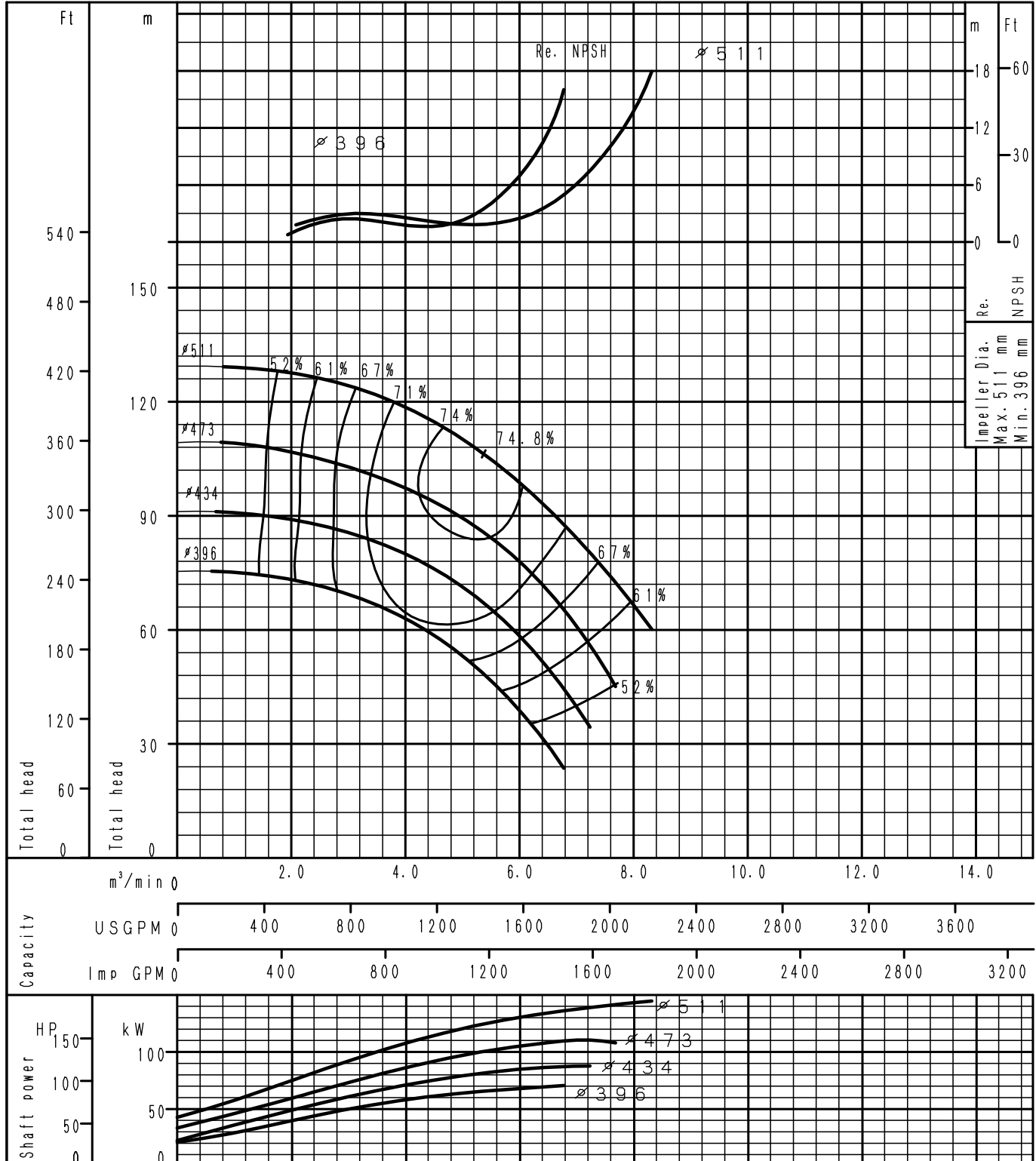
GS125-400	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

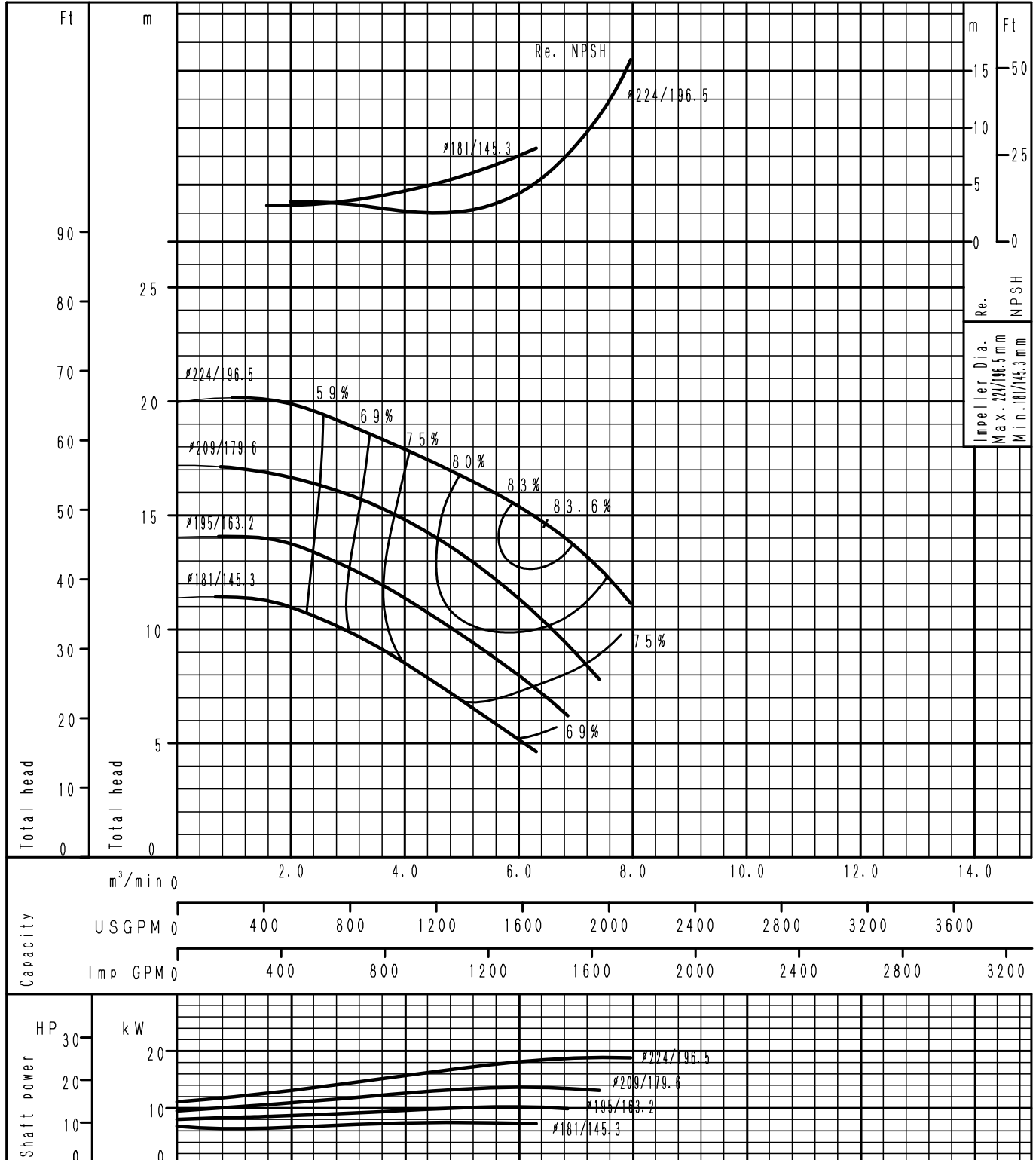
GS125-500	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

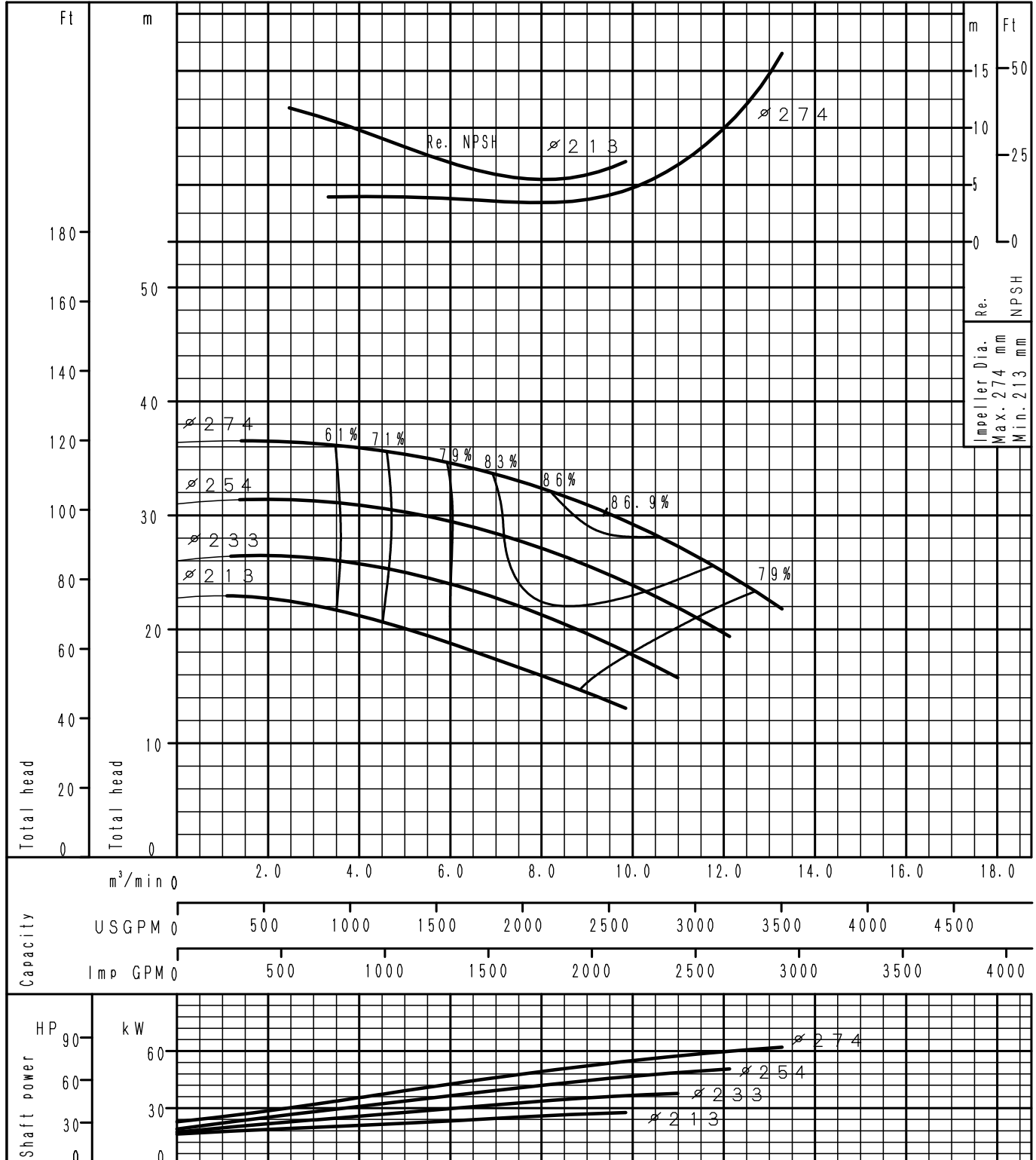
GS150-200	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

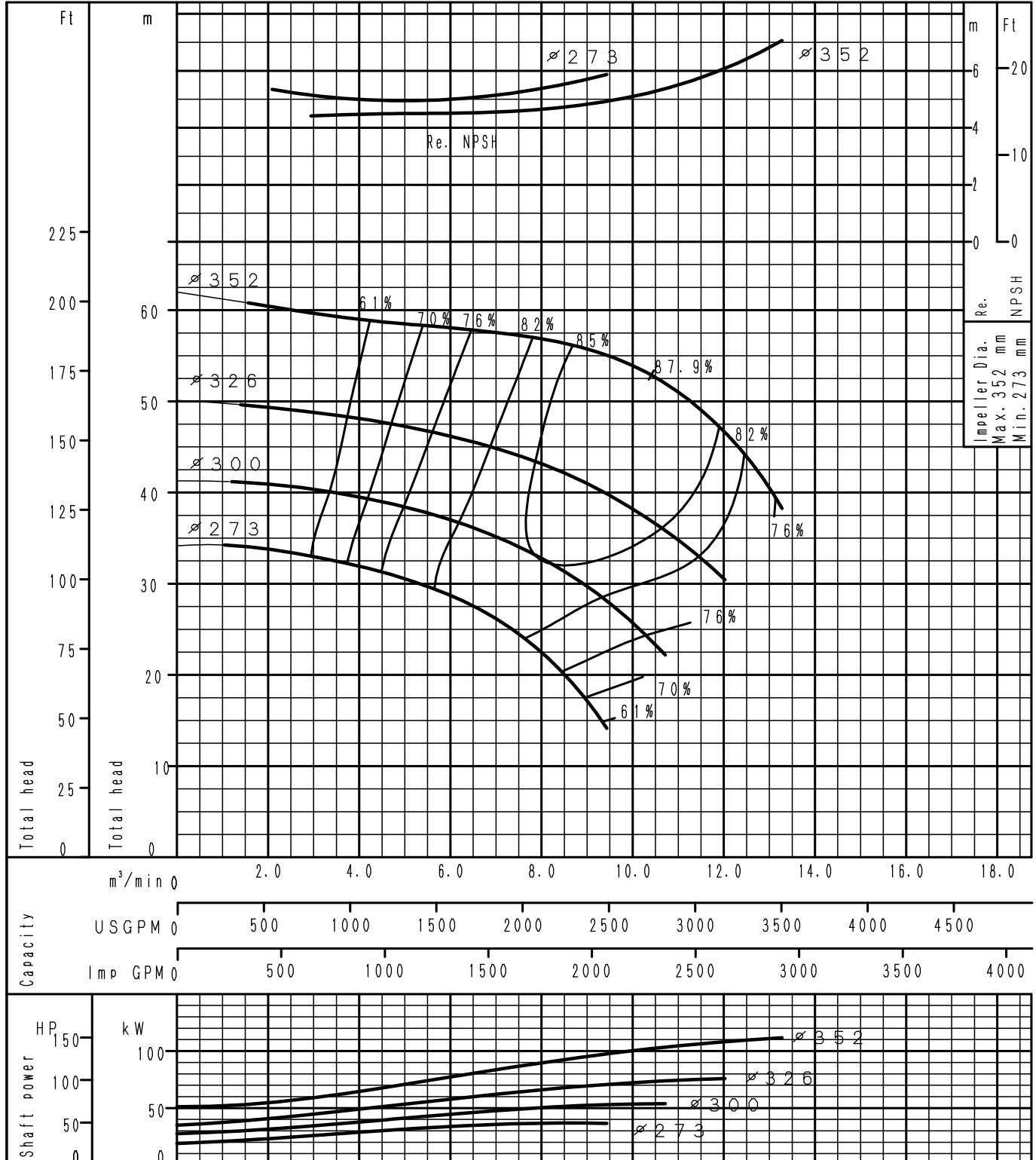
GS150-250	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

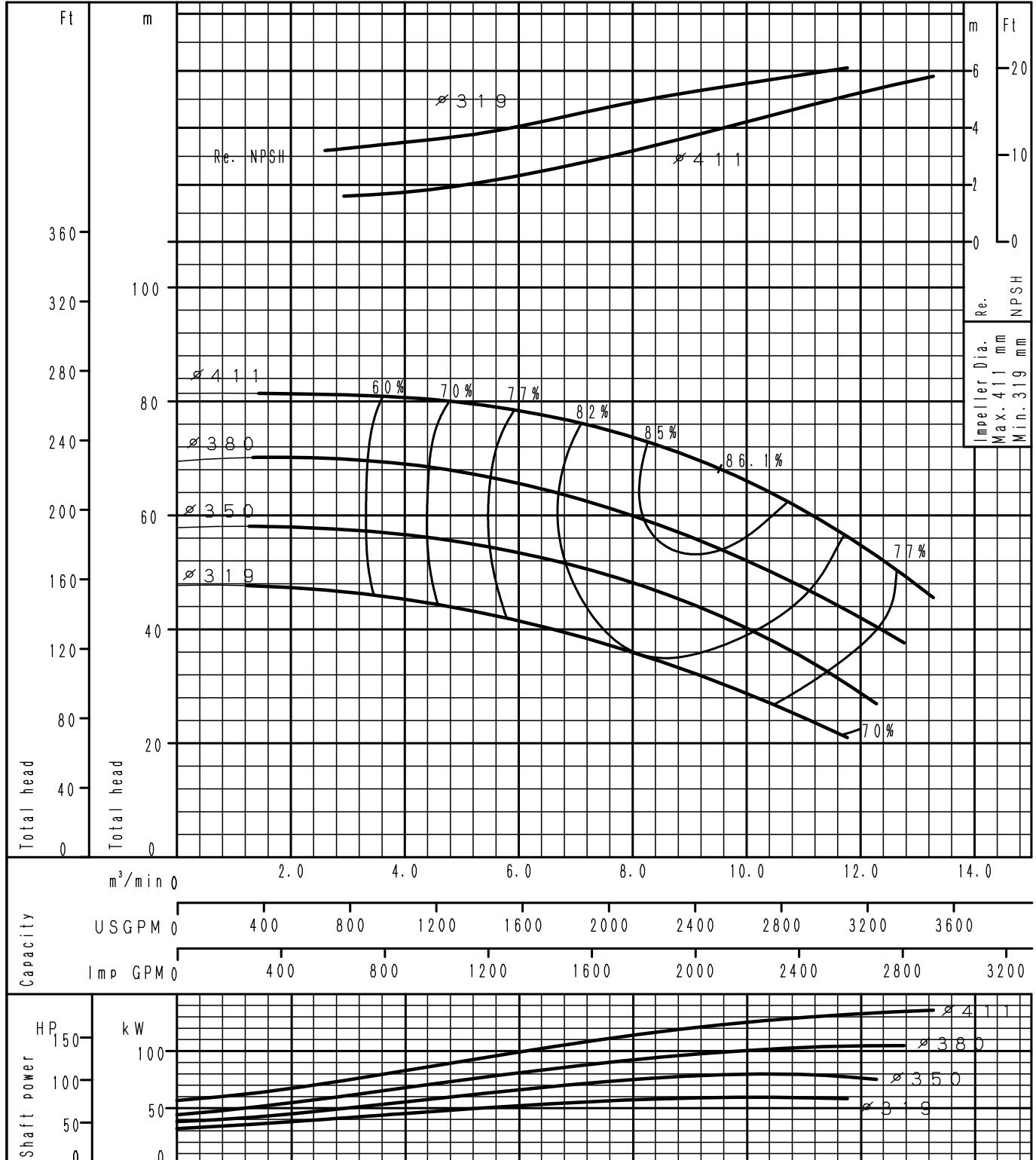
GS150-315	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa.s



Performance Curve

4 Poles

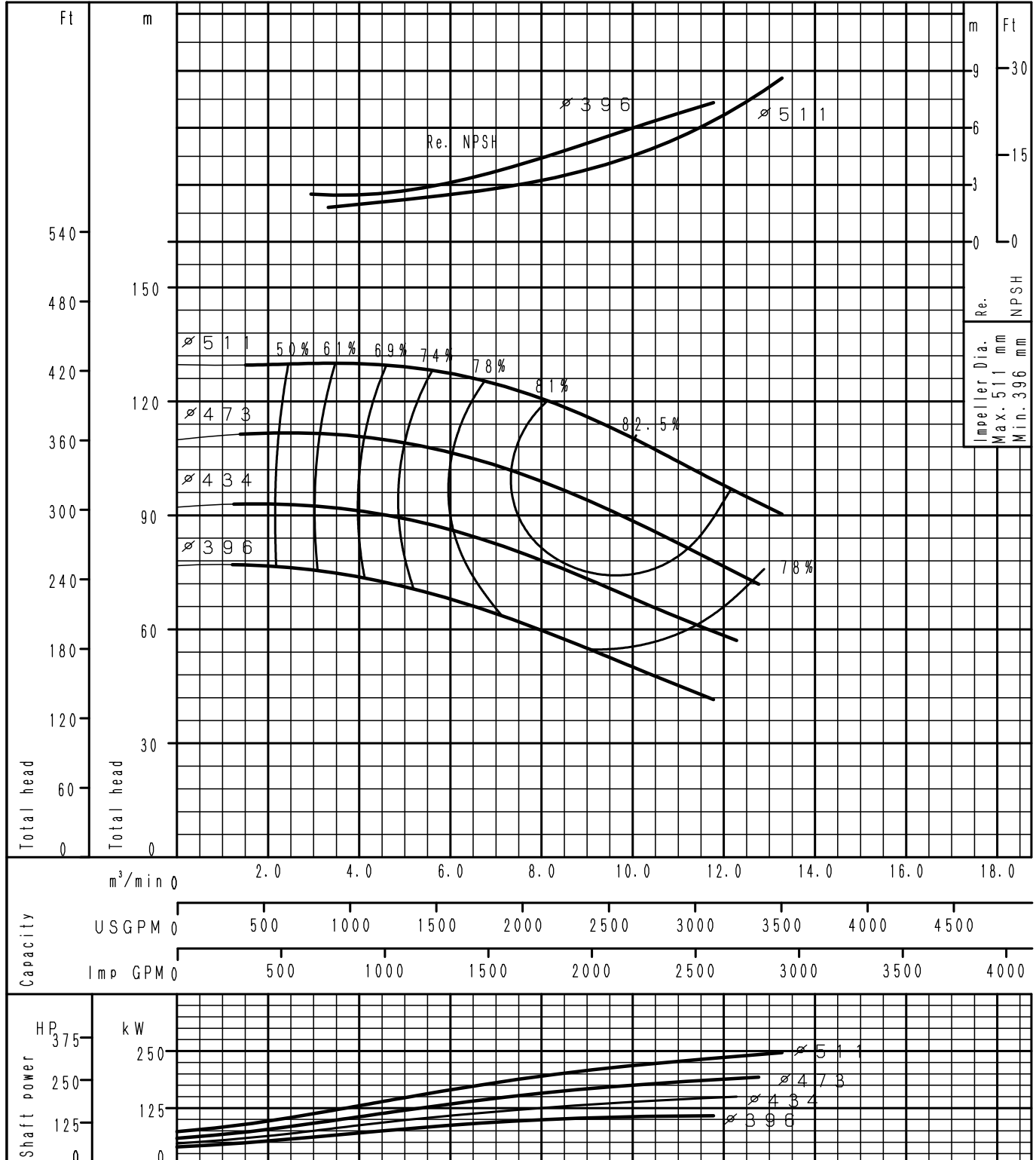
GS150-400L	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

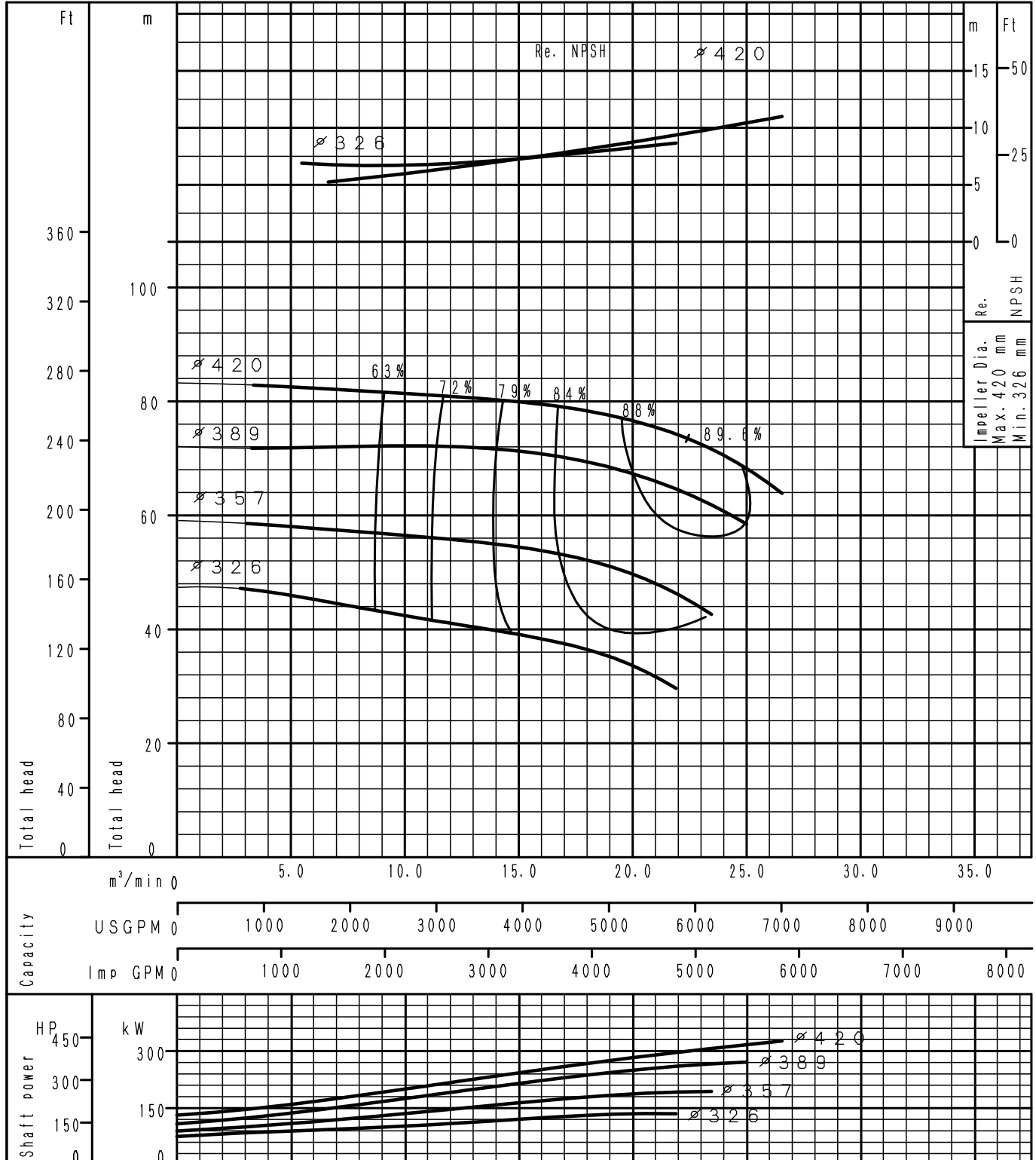
GS150-500	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	
DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s	



Performance Curve

4 Poles

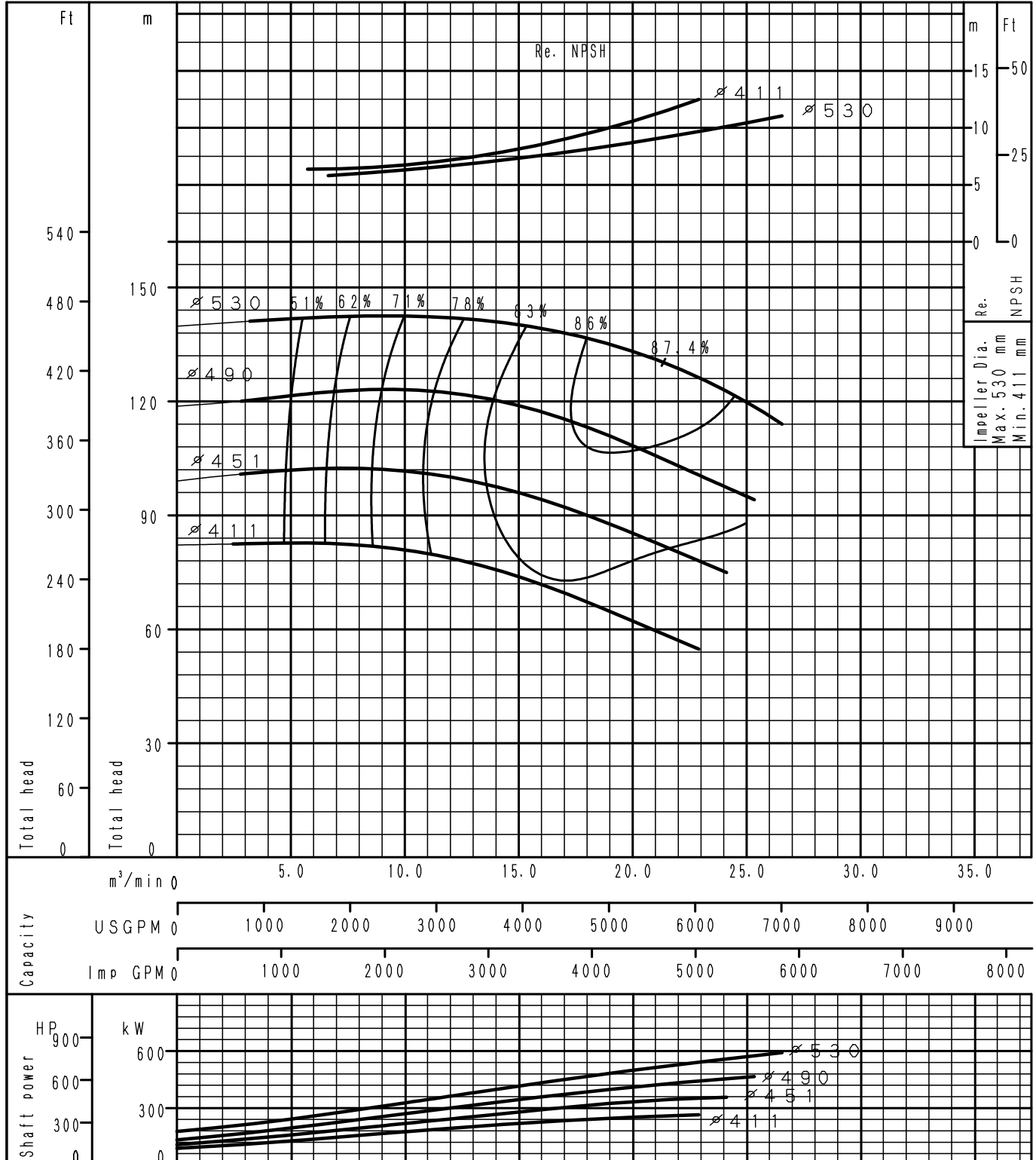
GS200-400	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GS200-500	According to ISO testing code 9906 Grade 3B
60Hz (Speed 1750 min ⁻¹)	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



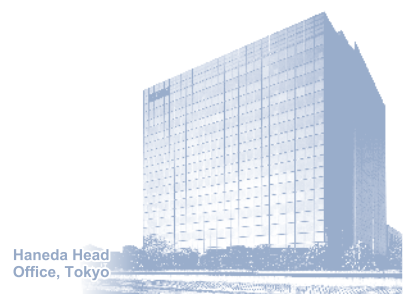


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