

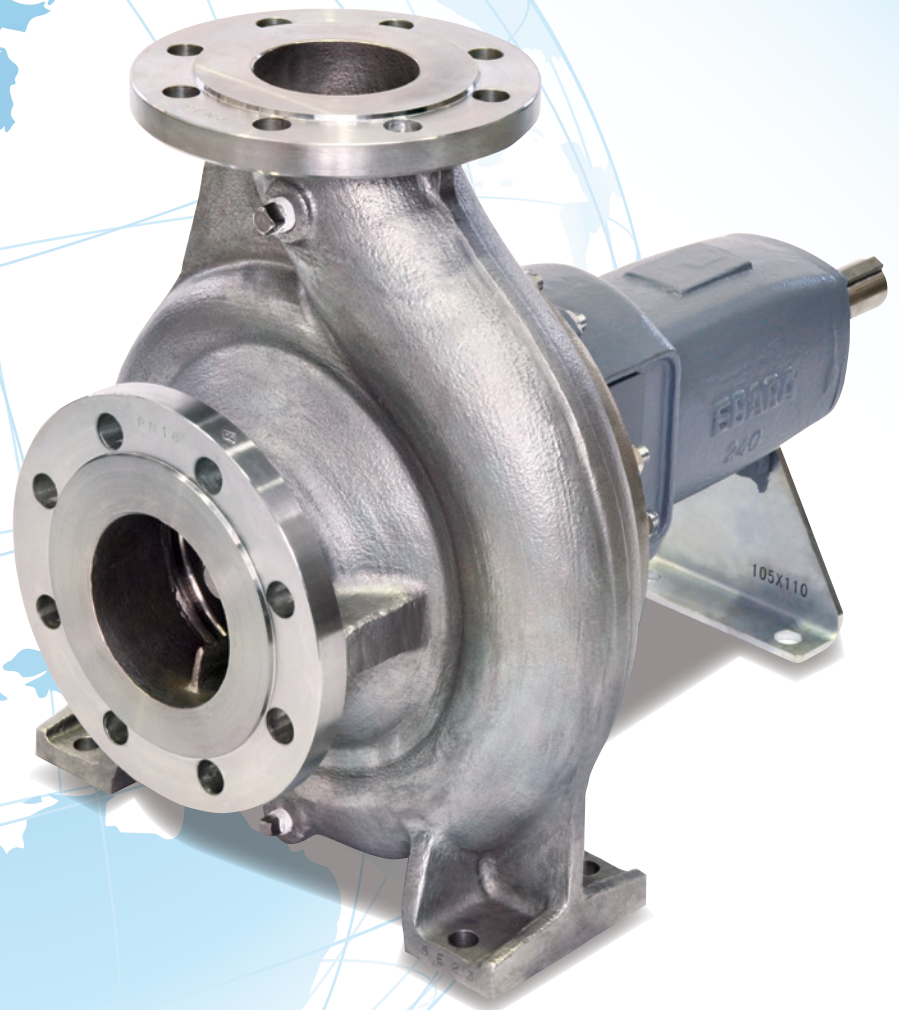


**EBARA**

TECHNICAL DATA BOOK

50/60Hz

# EBARA END SUCTION VOLUTE PUMP MODEL GSS



**SPECIFICATION**

Main Applications	A-1
Product Features	A-2
General Description	A-3
Design Details	A-4
Designation	A-5
Applicable Model	A-6

**TECHNICAL DATA**

Impeller Diameter	B-1
Shaft No. and Shaft Diameter	B-2
Maximum Allowable Pressure	B-3
Interchangeability Chart	B-4
The Number of Recommended Spare Parts	B-5
Nominal Dimension of Parts	B-6
Noise Data	B-7

**DIMENSIONS**

Dimensions of Bare Shaft Pump	C-1,2
Dimensions of Pump with motor (Fig.)	C-3
Dimensions of Pump with motor (2P)	C-4,5,6
Dimensions of Pump with motor (4P)	C-7,8,9,10,11

**CONSTRUCTION**

Sectional View(Mechanical Seal Type)	D-1
Sectional View(Gland Packing Type)	D-2
Materials of Constructions	D-3,4
Selection of Shaft Seal	D-5

**SELECTION CHART**

50Hz – 2900 min-1	E-1
50Hz – 1450 min-1	E-2
60Hz – 3500 min-1	E-3
60Hz – 1750 min-1	E-4

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

GSS32-125.1, GSS 32-160.1, GSS 32-200.1  
GSS32-125, GSS32-160, GSS32-200, GSS32-250  
GSS40-125, GSS40-160, GSS40-200, GSS40-250  
GSS50-125, GSS50-160, GSS50-200, GSS50-250, GSS50-315  
GSS65-125, GSS65-160, GSS65-200, GSS65-250, GSS65-315  
GSS80-160, GSS80-200, GSS80-250, GSS80-315L  
GSS100-160, GSS100-200, GSS100-250, GSS100-315L  
GSS125-200, GSS 125-250L, GSS 125-315  
GSS150-200, GSS150-250

**50Hz – 1450 min-1**

GSS32-125.1, GSS 32-160.1, GSS 32-200.1  
GSS32-125, GSS32-160, GSS32-200, GSS32-250  
GSS40-125, GSS40-160, GSS40-200, GSS40-250  
GSS50-125, GSS50-160, GSS50-200, GSS50-250, GSS50-315  
GSS65-125, GSS65-160, GSS65-200, GSS65-250, GSS65-315  
GSS80-160, GSS80-200, GSS80-250, GSS80-315, GSS80-400  
GSS100-160, GSS100-200, GSS100-250, GSS100-315, GSS100-400  
GSS125-200, GSS 125-250, GSS 125-315, GSS 125-400, GSS 125-500  
GSS150-200, GSS150-250, GSS150-315, GSS150-400, GSS150-500

**60Hz – 3500 min-1**

GSS32-125.1, GSS 32-160.1, GSS 32-200.1  
GSS32-125, GSS32-160, GSS32-200, GSS32-250  
GSS40-125, GSS40-160, GSS40-200, GSS40-250  
GSS50-125, GSS50-160, GSS50-200, GSS50-250  
GSS65-125, GSS65-160, GSS65-200, GSS65-250  
GSS80-160, GSS80-200, GSS80-250  
GSS100-160, GSS100-200, GSS100-250L  
GSS125-200, GSS 125-250L  
GSS150-200

**60Hz – 1750 min-1**

GSS32-125.1, GSS 32-160.1, GSS 32-200.1  
GSS32-125, GSS32-160, GSS32-200, GSS32-250  
GSS40-125, GSS40-160, GSS40-200, GSS40-250  
GSS50-125, GSS50-160, GSS50-200, GSS50-250, GSS50-315  
GSS65-125, GSS65-160, GSS65-200, GSS65-250, GSS65-315  
GSS80-160, GSS80-200, GSS80-250, GSS80-315, GSS80-400  
GSS100-160, GSS100-200, GSS100-250, GSS100-315, GSS100-400  
GSS125-200, GSS 125-250, GSS 125-315, GSS 125-400, GSS 125-500  
GSS150-200, GSS150-250, GSS150-315, GSS150-400L, GSS150-500

**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**

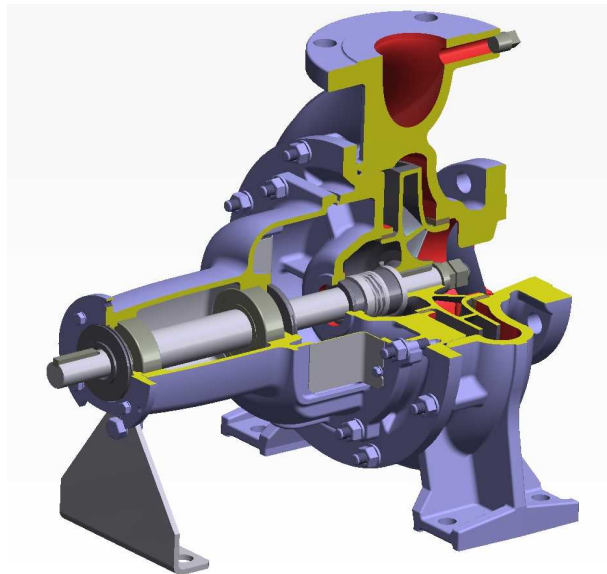
**GENERAL INDUSTRY**

- Semiconductor industry**
  - Pure water
- Food industry**
  - General water (Cooling water, Recycling water, Filtered water)
  - CIP (Cleaning in Place)
- 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

**OTHERS**

- Seawater
- Brackish water
- Oils
- Other chemical

## 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: 16 bar
- Liquid temperature range expansion : -25°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 1200 m <sup>3</sup> /hr (50Hz)
	To 870 m <sup>3</sup> /hr (60Hz)
Heads	To 160 m (50Hz)
	To 140 m (60Hz)
Liquid temperatures	-25°C to 140°C
Max.working pressures	Up to 16Bar (1.6MPa)
Materials (*1)	Casing: 304 Stainless Steel , 316 Stainless Steel Impeller: 304 Stainless Steel , 316 Stainless Steel
Standards	EN733
Rotation	Clockwise viewed from coupling end

(\*1) Duplex stainless steel can also be selected as an option.

**FEATURES**

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

**APPLICABLE FLANGE STANDARD**

- EN PN16
- JIS 10K

**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 140°C for Casing and Casing Cover**

Primer coating	Non painting
Final coating	Non painting
Finish color	Non painting

**• Standard for Bearing Housing , Bearing Cover and Stay**

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

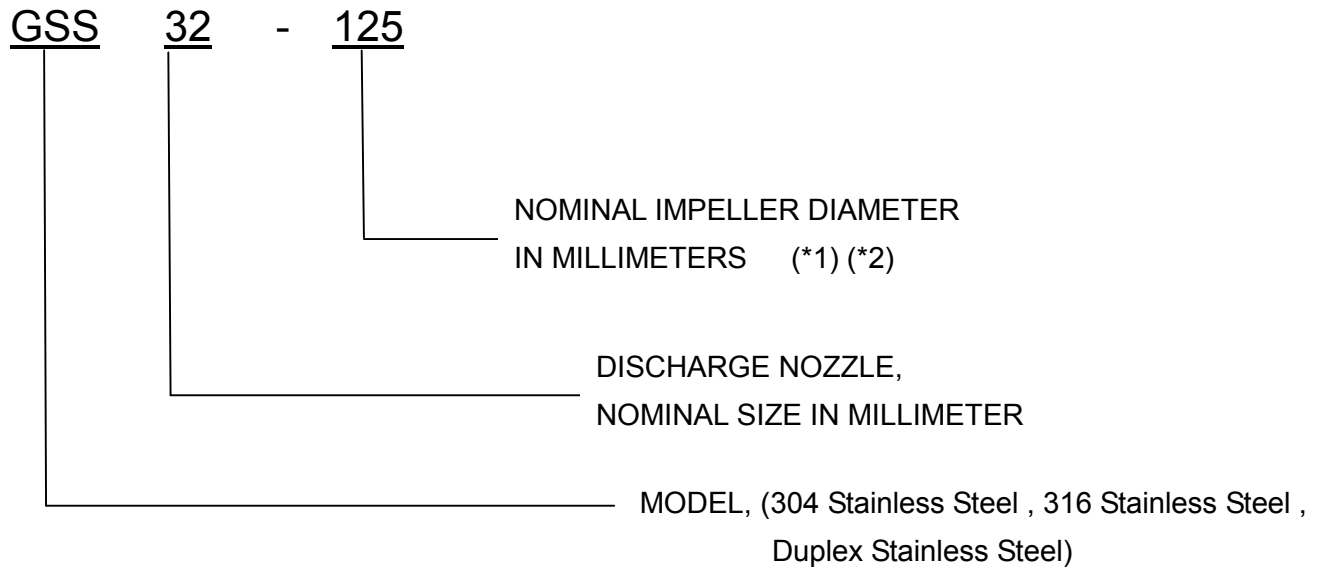
**2. Inner Surface**

**• Standard up to 140°C**

Primer coating	Non painting
Final coating	Non painting
Finish color	Non painting

**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, GSS80-315 and GSS80-315L 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, GSS32-125 and GSS32-125.1 have different casing and impeller designs from one another.



**SPECIFICATION - Applicable Model**

● : Applicable

Model	Shaft No.	50Hz		60Hz		Remarks
		2900 mim <sup>-1</sup> (2 Pole)	1450 mim <sup>-1</sup> (4 Pole)	3500 mim <sup>-1</sup> (2 Pole)	1750 mim <sup>-1</sup> (4 Pole)	
GSS32-125.1	230	●	●	●	●	different hydraulic design each other
GSS32-125	230	●	●	●	●	
GSS32-160.1	230	●	●	●	●	different hydraulic design each other
GSS32-160	230	●	●	●	●	
GSS32-200.1	230	●	●	●	●	different hydraulic design each other
GSS32-200	230	●	●	●	●	
GSS32-250	230	●	●	●	●	
GSS40-125	230	●	●	●	●	
GSS40-160	230	●	●	●	●	
GSS40-200	230	●	●	●	●	
GSS40-250	230	●	●	●	●	
GSS50-125	230	●	●	●	●	
GSS50-160	230	●	●	●	●	
GSS50-200	230	●	●	●	●	
GSS50-250	230	●	●	●	●	
GSS50-315	240	●	●	—	●	
GSS65-125	230	●	●	●	●	
GSS65-160	230	●	●	●	●	
GSS65-200	230	●	●	●	●	
GSS65-250	240	●	●	●	●	
GSS65-315	240	●	●	—	●	
GSS80-160	230	●	●	●	●	
GSS80-200	240	●	●	●	●	
GSS80-250	240	●	●	●	●	
GSS80-315	240	—	●	—	●	same hydraulic design and different shaft no. each other
GSS80-315L	250	●	—	—	—	
GSS80-400	250	—	●	—	●	
GSS100-160	240	●	●	●	●	
GSS100-200	240	●	●	●	●	
GSS100-250	240	●	●	—	●	same hydraulic design and different shaft no. each other
GSS100-250 L	250	—	—	●	—	
GSS100-315	240	—	●	—	●	same hydraulic design and different shaft no. each other
GSS100-315 L	250	●	—	—	—	
GSS100-400	250	—	●	—	●	
GSS125-200	240	●	●	●	●	
GSS125-250	240	—	●	—	●	same hydraulic design and different shaft no. each other
GSS125-250 L	250	●	—	●	—	
GSS125-315	250	●	●	—	●	
GSS125-400	250	—	●	—	●	
GSS125-500	260	—	●	—	●	
GSS150-200	240	●	●	●	●	
GSS150-250	250	●	●	—	●	
GSS150-315	250	—	●	—	●	
GSS150-400	250	—	●	—	—	same hydraulic design and different shaft no. each other
GSS150-400 L	260	—	—	—	●	
GSS150-500	270	—	●	—	●	

**TECHNICAL DATA – Impeller Diameter**

— Not applicable Model      Unit : mm

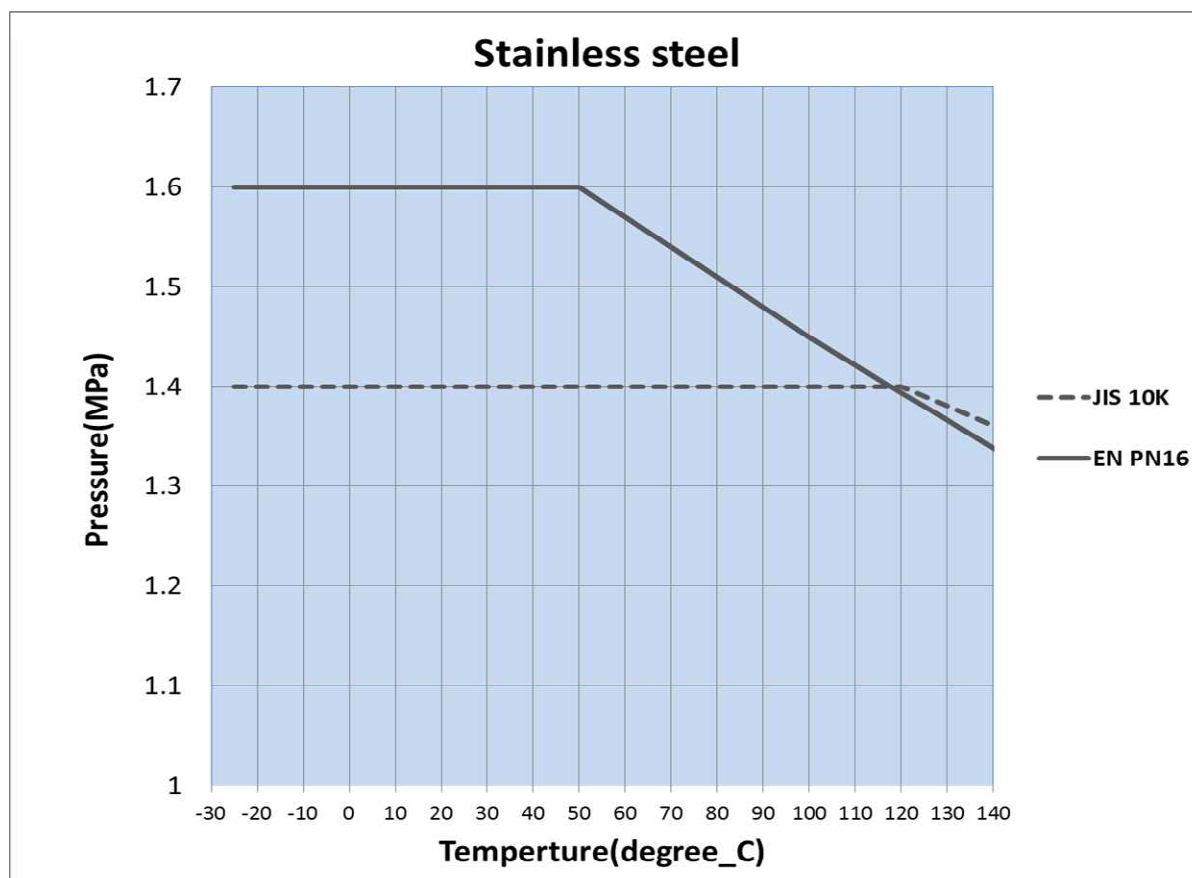
Model	Shaft No.	50Hz				60Hz			
		2P		4P		2P		4P	
		Max	Min	Max	Min	Max	Min	Max	Min
GSS32-125.1	230	140	100	140	100	140	100	140	100
GSS32-125	230	142	106	142	106	142	106	142	106
GSS32-160.1	230	177	126	177	126	177	126	177	126
GSS32-160	230	177	139	177	139	177	139	177	139
GSS32-200.1	230	207	172	207	172	207	172	207	172
GSS32-200	230	219	177	219	177	219	177	219	177
GSS32-250	230	262	198	262	198	262	198	262	198
GSS40-125	230	142	105	142	105	142	105	142	105
GSS40-160	230	177	134	177	134	177	134	177	134
GSS40-200	230	219	172	219	172	219	172	219	172
GSS40-250	230	260	211	260	211	260	211	260	211
GSS50-125	230	144	111	144	111	144	111	144	111
GSS50-160	230	177	131	177	131	177	131	177	131
GSS50-200	230	219	171	219	171	219	171	219	171
GSS50-250	230	270	211	270	211	246	211	270	211
GSS50-315	240	344	271	344	271	—	—	344	271
GSS65-125	230	147	120	147	120	147	120	147	120
GSS65-160	230	177	135	177	135	177	135	177	135
GSS65-200	230	219	162	219	162	216	162	219	162
GSS65-250	240	273	215	273	215	273	215	273	215
GSS65-315	240	320	261	320	261	—	—	320	261
GSS80-160	230	177	147/127	177	147/127	177	147/127	177	147/127
GSS80-200	240	222/212	170/159.2	222/212	170/159.2	222/212	170/159.2	222/212	170/159.2
GSS80-250	240	270	220	270	220	250	220	270	220
GSS80-315	240	—	—	334	265	—	—	334	265
GSS80-315L	250	334	265	—	—	—	—	—	—
GSS80-400	250	—	—	438	335	—	—	438	335
GSS100-160	240	183	149	183	149	183	149	183	149
GSS100-200	240	220	171	220	171	220	171	220	171
GSS100-250	240	265	210	270	210	—	—	270	210
GSS100-250L	250	—	—	—	—	270	210	—	—
GSS100-315	240	—	—	312	242	—	—	312	242
GSS100-315L	250	312	242	—	—	—	—	—	—
GSS100-400	250	—	—	412	320	—	—	412	320
GSS125-200	240	224	174	224	174	201	174	221	174
GSS125-250	240	—	—	274	213	—	—	274	213
GSS125-250L	250	274	213	—	—	242	200	—	—
GSS125-315	250	309	259	334	259	—	—	334	259
GSS125-400	250	—	—	424	329	—	—	424	329
GSS125-500	260	—	—	511	396	—	—	511	396
GSS150-200	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
GSS150-250	250	250	213	274	213	—	—	274	213
GSS150-315	250	—	—	352	273	—	—	352	273
GSS150-400	250	—	—	411	319	—	—	—	—
GSS150-400L	260	—	—	—	—	—	—	411	319
GSS150-500	270	—	—	511	396	—	—	511	396

**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)
GSS32-125.1	230	24	30	30	28	33
GSS32-125	230	24	30	30	28	33
GSS32-160.1	230	24	30	30	28	33
GSS32-160	230	24	30	30	28	33
GSS32-200.1	230	24	30	30	28	33
GSS32-200	230	24	30	30	28	33
GSS32-250	230	24	30	30	28	33
GSS40-125	230	24	30	30	28	33
GSS40-160	230	24	30	30	28	33
GSS40-200	230	24	30	30	28	33
GSS40-250	230	24	30	30	28	33
GSS50-125	230	24	30	30	28	33
GSS50-160	230	24	30	30	28	33
GSS50-200	230	24	30	30	28	33
GSS50-250	230	24	30	30	28	33
GSS50-315	240	32	40	40	38	43
GSS65-125	230	24	30	30	28	33
GSS65-160	230	24	30	30	28	33
GSS65-200	230	24	30	30	28	33
GSS65-250	240	32	40	40	38	43
GSS65-315	240	32	40	40	38	43
GSS80-160	230	24	30	30	28	33
GSS80-200	240	32	40	40	38	43
GSS80-250	240	32	40	40	38	43
GSS80-315	240	32	40	40	38	43
GSS80-315L	250	42	50	50	48	53
GSS80-400	250	42	50	50	48	53
GSS100-160	240	32	40	40	38	43
GSS100-200	240	32	40	40	38	43
GSS100-250	240	32	40	40	38	43
GSS100-250L	250	42	50	50	48	53
GSS100-315	240	32	40	40	38	43
GSS100-315L	250	42	50	50	48	53
GSS100-400	250	42	50	50	48	53
GSS125-200	240	32	40	40	38	43
GSS125-250	240	32	40	40	38	43
GSS125-250L	250	42	50	50	48	53
GSS125-315	250	42	50	50	48	53
GSS125-400	250	42	50	50	48	53
GSS125-500	260	48	60	60	55	60
GSS150-200	240	32	40	40	38	43
GSS150-250	250	42	50	50	48	53
GSS150-315	250	42	50	50	48	53
GSS150-400	250	42	50	50	48	53
GSS150-400L	260	48	60	60	55	60
GSS150-500	270	60	70	70	65	70

1. Maximum Allowable Working Pressure (MAWP)

Pressure casing material	Liquid temperature	Max. allowable working pressures	Flange standard
Stainless Steel	-25°C to 140°C	16 bar (1.6MPa)	EN PN16
		14bar (1.4MPa)	JIS 10K



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 (Casing)	Case Wear Ring (Casing cover)	O Ring (for casing)	For Mechanical seal		For Gland packing	
								Mechanical Seal	O Ring	Shaft Sleeve	Sleeve Gasket
GSS32-125.1	230		A	A	A	A	A	A	A	A	A
GSS32-125	230		A	A	A	A	A	A	A	A	A
GSS32-160.1	230		A	A	A	A	A	A	A	A	A
GSS32-160	230		A	A	A	A	A	A	A	A	A
GSS32-200.1	230		A	A	A	A	B	A	A	A	A
GSS32-200	230		A	A	A	A	B	A	A	A	A
GSS32-250	230		A	A	A	A	C	A	A	A	A
GSS40-125	230		A	A	B	B	A	A	A	A	A
GSS40-160	230		A	A	B	B	A	A	A	A	A
GSS40-200	230		A	A	B	B	B	A	A	A	A
GSS40-250	230		A	A	B	B	C	A	A	A	A
GSS50-125	230		A	A	C	C	A	A	A	A	A
GSS50-160	230		A	A	C	C	A	A	A	A	A
GSS50-200	230		A	A	C	C	B	A	A	A	A
GSS50-250	230		A	A	C	C	C	A	A	A	A
GSS60-315	240		B	B	D	D	D	B	B	B	B
GSS65-125	230		A	A	D	D	A	A	A	A	A
GSS65-160	230		A	A	D	D	A	A	A	A	A
GSS65-200	230		A	A	D	D	B	A	A	A	A
GSS65-250	240		B	B	D	D	C	B	B	B	B
GSS65-315	240		B	B	E	E	D	B	B	B	B
GSS80-160	230		A	A	E	E	A	A	A	A	A
GSS80-200	240		B	B	E	E	B	B	B	B	B
GSS80-250	240		B	B	F	F	C	B	B	B	B
GSS80-315	240		B	B	F	F	D	B	B	B	B
GSS80-315L	250		C	C	F	F	D	C	C	C	C
GSS80-400	250		C	C	F	F	E	C	C	C	C
GSS100-160	240		B	B	F	G	A	B	B	B	B
GSS100-200	240		B	B	H	H	B	B	B	B	B
GSS100-250	240		B	B	H	H	C	B	B	B	B
GSS100-250L	250		C	C	H	H	C	C	C	C	C
GSS100-315	240		B	B	H	I	D	B	B	B	B
GSS100-315L	250		C	C	H	I	D	C	C	C	C
GSS100-400	250		C	C	J	J	E	C	C	C	C
GSS125-200	240		B	B	J	H	B	B	B	B	B
GSS125-250	240		B	B	K	J	C	B	B	B	B
GSS125-250L	250		C	C	K	K	C	C	C	C	C
GSS125-315	250		C	C	L	K	D	C	C	C	C
GSS125-400	250		C	C	L	L	E	C	C	C	C
GSS125-500	260		D	D	M	M	F	D	D	D	D
GSS150-200	240		B	B	K	I	B	B	B	B	B
GSS150-250	250		C	C	N	N	C	C	C	C	C
GSS150-315	250		C	C	N	N	D	C	C	C	C
GSS150-400	250		C	C	O	O	E	C	C	C	C
GSS150-400L	260		D	D	O	O	E	D	D	D	D
GSS150-500	270		E	E	P	P	F	E	E	E	E

Depends on each model

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.



**The number of recommended spare parts**

Parts name	Qty per 1 unit	Spare for 1 year	Spare for 2 years	Remarks
		N	N	
Impeller	1	-	1	
Case Wear Ring (Casing)	1	1	2	
Case Wear Ring (Cover)	1	1	2	
O Ring	1	1	2	
Ball bearing	2	1	2	
Mechanical Seal	1	1set	2sets	*1
Gland Packing	1	1set	2sets	*2
Shaft Sleeve	1	1	2	*2
Sleeve Gasket	1	1	2	*2
Coupling rubber	1	1	2	

\*1 For mechanical seal type

\*2 For gland packing type

**TECHNICAL DATA – 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 Packing	
						Gland Packing	Sleeve Gasket
GSS32-125.1	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS32-125	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS32-160.1	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS32-160	230	76	76	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS32-200.1	230	76	76	3.53X234.54	6306ZZ	33X49X8	24X28X1
GSS32-200	230	76	76	3.53X234.54	6306ZZ	33X49X8	24X28X1
GSS32-250	230	76	76	3.53X278.99	6306ZZ	33X49X8	24X28X1
GSS40-125	230	88	88	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS40-160	230	88	88	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS40-200	230	88	88	3.53X234.54	6306ZZ	33X49X8	24X28X1
GSS40-250	230	88	88	3.53X278.99	6306ZZ	33X49X8	24X28X1
GSS50-125	230	100	100	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS50-160	230	100	100	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS50-200	230	100	100	3.53X234.54	6306ZZ	33X49X8	24X28X1
GSS50-250	230	100	100	3.53X278.99	6306ZZ	33X49X8	24X28X1
GSS50-315	240	116	116	3.53X355.19	6308ZZ	43X63X10	32X38X1
GSS65-125	230	116	116	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS65-160	230	116	116	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS65-200	230	116	116	3.53X234.54	6306ZZ	33X49X8	24X28X1
GSS65-250	240	116	116	3.53X278.99	6308ZZ	43X63X10	32X38X1
GSS65-315	240	132	132	3.53X355.19	6308ZZ	43X63X10	32X38X1
GSS80-160	230	132	132	3.53X183.74	6306ZZ	33X49X8	24X28X1
GSS80-200	240	132	132	3.53X234.54	6308ZZ	43X63X10	32X38X1
GSS80-250	240	148	148	3.53X278.99	6308ZZ	43X63X10	32X38X1
GSS80-315	240	148	148	3.53X355.19	6308ZZ	43X63X10	32X38X1
GSS80-315L	250	148	148	3.53X355.19	6310ZZ	53X73X10	42X48X1
GSS80-400	250	148	148	5.33X456.06	6310ZZ	53X73X10	42X48X1
GSS100-160	240	148	153	3.53X183.74	6308ZZ	43X63X10	32X38X1
GSS100-200	240	158	158	3.53X234.54	6308ZZ	43X63X10	32X38X1
GSS100-250	240	158	158	3.53X278.99	6308ZZ	43X63X10	32X38X1
GSS100-250 L	250	158	158	3.53X278.99	6310ZZ	53X73X10	42X48X1
GSS100-315	240	158	162	3.53X355.19	6308ZZ	43X63X10	32X38X1
GSS100-315 L	250	158	162	3.53X355.19	6310ZZ	53X73X10	42X48X1
GSS100-400	250	168	168	5.33X456.06	6310ZZ	53X73X10	42X48X1
GSS125-200	240	168	158	3.53X234.54	6308ZZ	43X63X10	32X38X1
GSS125-250	240	178	168	3.53X278.99	6308ZZ	43X63X10	32X38X1
GSS125-250 L	250	178	178	3.53X278.99	6310ZZ	53X73X10	42X48X1
GSS125-315	250	188	178	3.53X355.19	6310ZZ	53X73X10	42X48X1
GSS125-400	250	188	188	5.33X456.06	6310ZZ	53X73X10	42X48X1
GSS125-500	260	200	200	5.33X532.26	6312ZZ	60X85X12.5	48X55X1
GSS150-200	240	178	162	3.53X234.54	6308ZZ	43X63X10	32X38X1
GSS150-250	250	212	212	3.53X278.99	6310ZZ	53X73X10	42X48X1
GSS150-315	250	212	212	3.53X355.19	6310ZZ	53X73X10	42X48X1
GSS150-400	250	236	236	5.33X456.06	6310ZZ	53X73X10	42X48X1
GSS150-400 L	260	236	236	5.33X456.06	6312ZZ	60X85X12.5	48X55X1
GSS150-500	270	250	250	5.33X532.26	6314ZZ	70X95X12.5	60X65X1

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

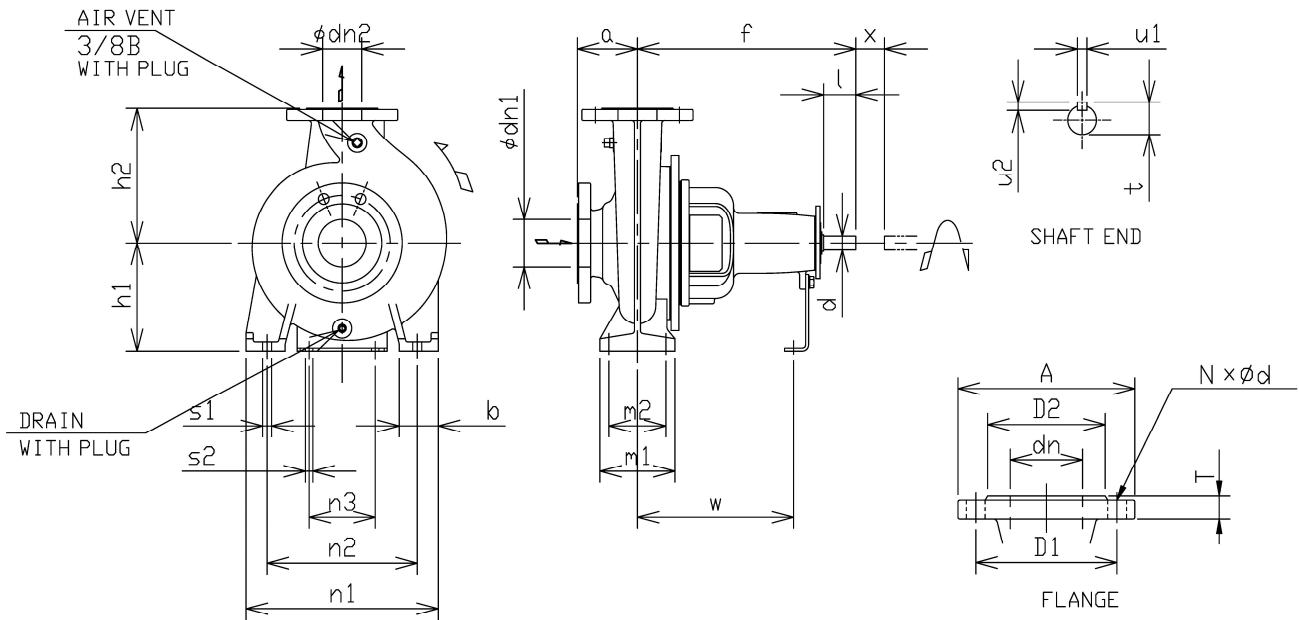
Figures in above chart show nominal parts size.

**TECHNICAL DATA – Noise Data**

Model	50Hz		60Hz	
	2900 mim <sup>-1</sup> (2 Pole)	1450 mim <sup>-1</sup> (4 Pole)	3500 mim <sup>-1</sup> (2 Pole)	1750 mim <sup>-1</sup> (4 Pole)
	Overall Sound Pressure Level dB(A)			
GSS32-125.1	62	52	66	54
GSS32-125	64	52	68	54
GSS32-160.1	66	54	70	58
GSS32-160	68	54	72	58
GSS32-200.1	68	54	72	58
GSS32-200	72	58	74	62
GSS32-250	73	62	76	65
GSS40-125	66	54	70	58
GSS40-160	70	58	73	62
GSS40-200	73	62	77	65
GSS40-250	76	63	80	67
GSS50-125	70	54	72	58
GSS50-160	72	58	76	63
GSS50-200	76	63	78	67
GSS50-250	78	67	80	69
GSS50-315	83	71	—	73
GSS65-125	70	58	74	62
GSS65-160	74	62	77	65
GSS65-200	77	65	80	69
GSS65-250	81	69	84	71
GSS65-315	85	72	—	74
GSS80-160	76	63	80	67
GSS80-200	81	69	83	71
GSS80-250	84	71	85	73
GSS80-315	—	74	—	77
GSS80-315L	87	—	—	—
GSS80-400	—	78	—	80
GSS100-160	77	65	80	67
GSS100-200	81	69	85	72
GSS100-250	85	72	—	74
GSS100-250 L	—	—	88	—
GSS100-315	—	74	—	77
GSS100-315 L	87	—	—	—
GSS100-400	—	78	—	80
GSS125-200	84	71	85	73
GSS125-250	—	74	—	77
GSS125-250 L	87	—	89	—
GSS125-315	89	77	—	79
GSS125-400	—	79	—	82
GSS125-500	—	81	—	84
GSS150-200	84	71	85	73
GSS150-250	89	77	—	79
GSS150-315	—	79	—	82
GSS150-400	—	80	—	—
GSS150-400 L	—	—	—	84
GSS150-500	—	84	—	86

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: **Stainless Steel**  
 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
GSS32	50	165	125	102	18	4	18	32	140	100	78	18	4	18
GSS40	65	185	145	122	18	4	18	40	150	110	88	18	4	18
GSS50	65	185	145	122	18	4	18	50	165	125	102	18	4	18
GSS65	80	200	160	138	20	8	18	65	185	145	122	18	4	18
GSS80	100	220	180	158	20	8	18	80	200	160	138	20	8	18
GSS100	125	250	210	188	22	8	18	100	220	180	158	20	8	18
GSS125	150	285	240	212	22	8	22	125	250	210	188	22	8	18
GSS150	200	340	295	268	24	12	22	150	285	240	212	22	8	22

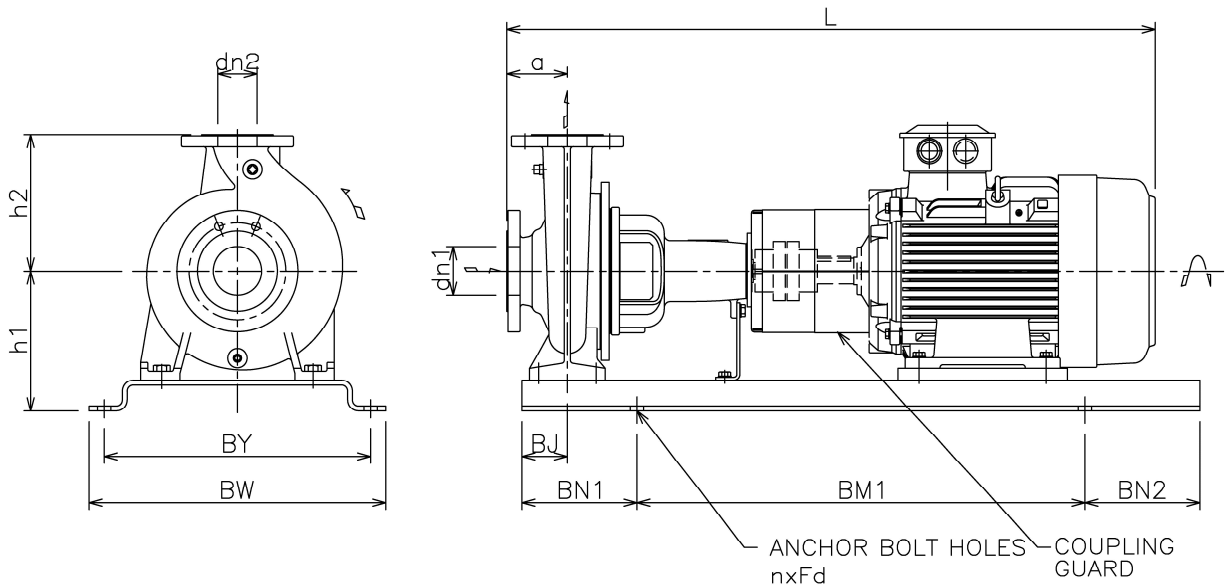
Flange Standard: **JIS 10K**

Unit: mm

Model	Suction flange							Discharge flange						
	dn1	A	D1	D2	T	N	d	dn2	A	D1	D2	T	N	d
GSS32	50	155	120	96	16	4	19	32	135	100	76	16	4	19
GSS40	65	175	140	116	18	4	19	40	140	105	81	16	4	19
GSS50	65	175	140	116	18	4	19	50	155	120	96	16	4	19
GSS65	80	185	150	126	18	8	19	65	175	140	116	18	4	19
GSS80	100	210	175	151	18	8	19	80	185	150	126	18	8	19
GSS100	125	250	210	182	20	8	23	100	210	175	151	18	8	19
GSS125	150	280	240	212	22	8	23	125	250	210	182	20	8	23
GSS150	200	330	290	262	22	12	23	150	280	240	212	22	8	23



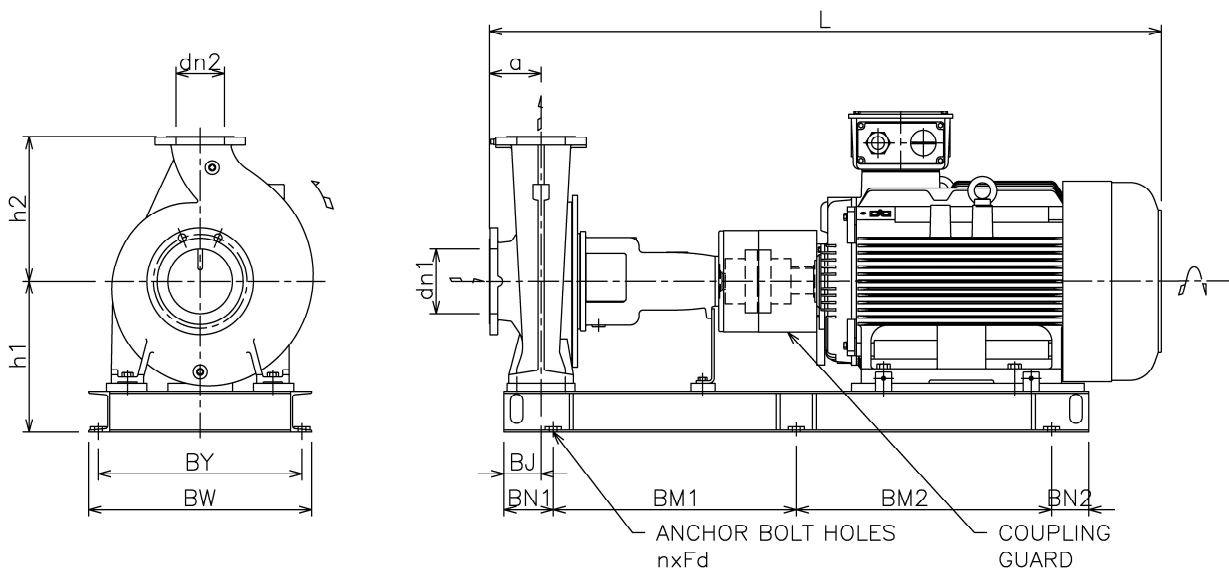
Steel Baseplate (Fig. A) Up to 90kW



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)

Table with columns: Model, Pole, Hz, Power, Fig, Size (phi 1, phi 2, a, h2), Pump, Motor (Frame, Mass), Baseplate (h1, BJ, BM1, BM2, BN1, BN2, BY, BW, nxFd, Mass), Total (Approx.) (L, Mass). Includes sub-headers for GSS PUMP-2P 50Hz/60Hz and Doc.No.6312-W69092\_rev0.

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















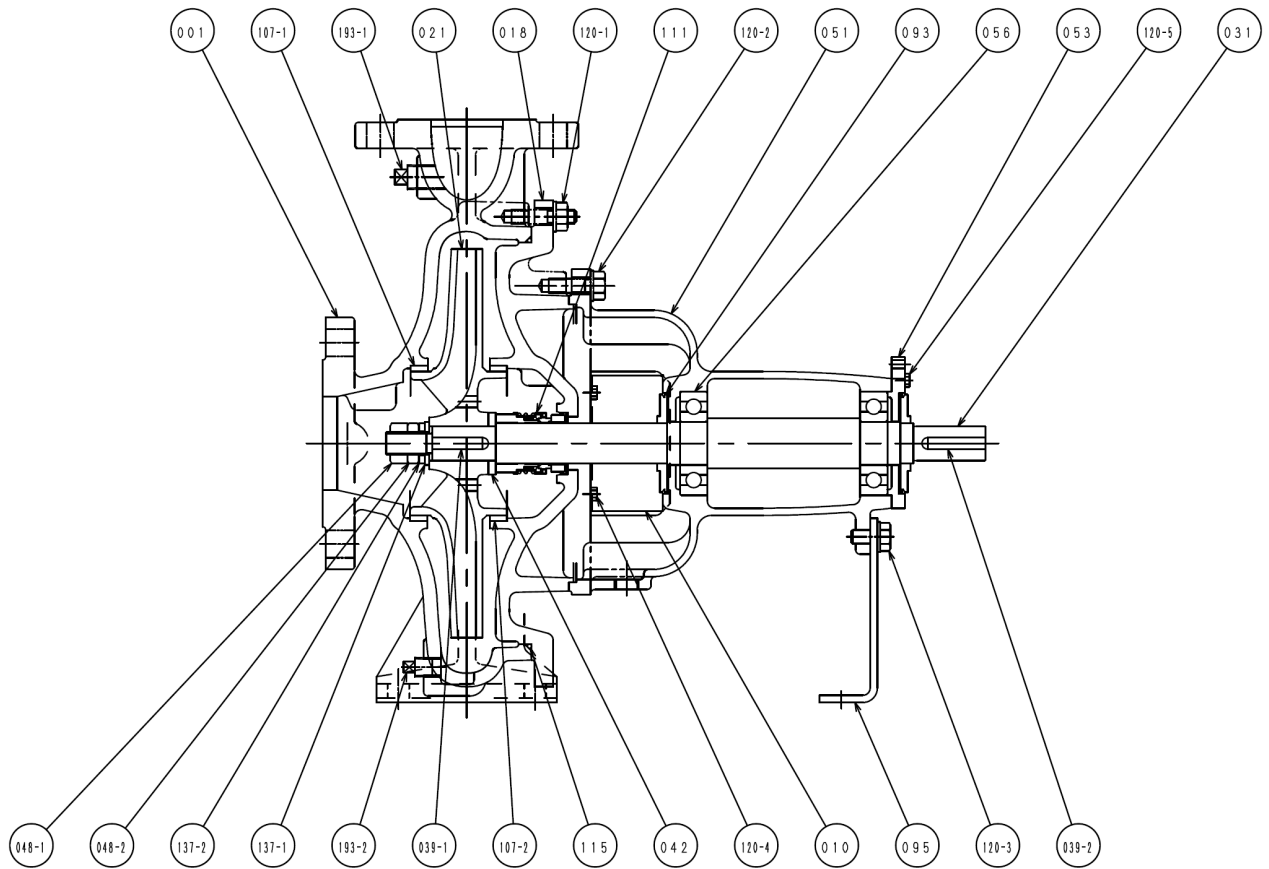
## DIMENSIONS - Dimensions of Pump with motor(4P)

**GSS 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			φ1	φ2	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	341	225SG	315	415	110	940	-	230	230	670	730	4xM24	104	92	1510	863
		✓		45							225MC	330											1535	889	
		✓		55							250MC	450											1615	1037	
		✓		75							280SB	566											1731	1175	
		✓		90							280MB	624											1781	1239	
150-400L	4		✓	55	A	200	150	160	450	365	250MC	450	415	110	1060	-	270	270	670	730	4xM24	104	104	1755	1063
			✓	75							280SB	566											1871	1217	
			✓	90							280MB	624											1921	1290	
			✓	110	B						315SB	800	2080	1504											
			✓	132							315MB	900	2130	1614											
			✓	160							315LB	990	2200	1737											
			✓	160							315LB	990	2200	1737											
150-500	4	✓		55	A	200	150	180	560	504	250MC	450	475	110	1060	-	270	270	670	730	4xM24	104	104	1775	1223
		✓		75							280SB	566											1891	1378	
		✓		90							280MB	624											1941	1442	
		✓		110							315SB	800											2100	1686	
		✓	✓	132							315MB	900											2200	1809	
		✓	✓	160	315LB						990	2250	1913												
			✓	200	B						315LB	1160	2100	1686											
			✓	220							355MB	1550	2656												
			✓	250							355MB	1650	2766												
			✓	315							355LB	1900	3041												
			✓	315							355LB	1900	3041												
	✓	315	355LB	1900		3041																			

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

**CONSTRUCTION - Sectional view (Mechanical Seal Type)**

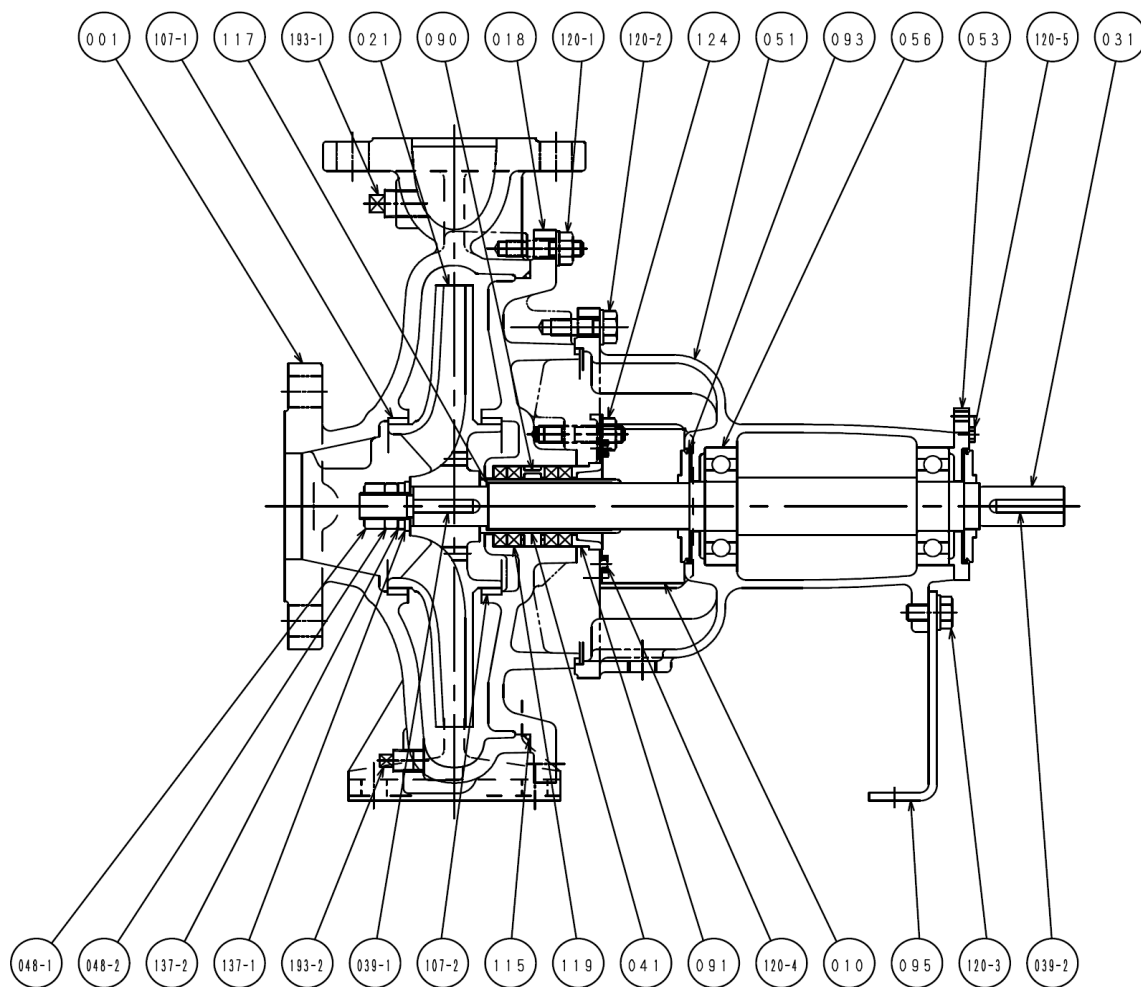


**Mechanical Seal Type**

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

Materials of mechanical seal application ( conical type )

● : Standard ○ : Optional

No.	Name of part	Material	JIS Material	ASTM equivalent	ISO or EN equivalent	Remarks	Material group		
							A1	A2	D1
001	CASING	304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)		●		
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2(1.4408)			○	
		Duplex stainless steel	--	A890-1B(CD4MCuN)	GX2CrNiMoCuN-25-6-3-3(1.4517)				○
010	PROTECTOR	Carbon steel	SPCC	A569	DC01(1.0330)		●	●	●
018	CASING COVER (conical)	304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)		●		
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2(1.4408)			○	
		Duplex stainless steel	--	A890-1B(CD4MCuN)	GX2CrNiMoCuN-25-6-3-3(1.4517)				○
021	IMPELLER	304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)		●		
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2(1.4408)			○	
		Duplex stainless steel	--	A890-1B(CD4MCuN)	GX2CrNiMoCuN-25-6-3-3(1.4517)				○
031	SHAFT	Duplex stainless steel	SUS329J3L /S35C	A276-S31803 /Grade1035	X2CrNiMoN22-5-3(1.4462) /C35	(*1)	●	●	●
039-1	KEY	316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)		●	●	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				○
039-2	KEY	Carbon steel	S50C	A576-1050	C50(1.0540)		●	●	●
042	SPACER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				○
048-1	IMPELLER NUT (A)	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				○
048-2	IMPELLER NUT (B)	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		NA
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	NA
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	---	---	---	(*2)	●	●	●
093	DEFLECTOR	EPDM	---	---	---		●	●	●
095	STAY	Carbon steel	SPHC	A569	---		●	●	●
107	CASE WEAR RING	316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)		●	●	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				○
111	MECHANICAL SEAL	SiC/carbon/FKM	---	---	---	Elastomer bellows seal	●	●	
		SiC/carbon/EPDM	---	---	---		○	○	
		Tc/carbon/EPDM	---	---	---	O ring/Spring	○	○	
		SiC/SiC/EPDM/HAS-C	---	---	---				○
115	O-RING	FKM	---	---	---	Viton	●	●	●
		EPDM	---	---	---		○	○	○
120-1	BOLT	Carbon steel	SS	A283-D	---		●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)				○
120-2,3,4,5	BOLT	Carbon steel	SS	A283-D	---		●	●	●
137-1	PLAIN WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		NA
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	NA
137-2	SPRING LOCK WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		NA
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	NA
193-1	PLUG	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				○
193-2	PLUG	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				○

(\*1) Duplex stainless steel is used for wetted part only. The remaining atmospheric side of shaft is made of carbon steel.

(\*2) Deep groove ball bearing, single row / Vacuum degassed steel

### Materials of gland packing application (\*3)

● : Standard ○ : Optional

No.	Name of part	Material	JIS Material	ASTM equivalent	ISO or EN equivalent	Remarks	Material group		
							A1	A2	D1
018	CASING COVER (cylindrical)	304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)		●		
		316 Stainless steel	SCS14A	A351-CF8M	GX5CrNiMo19-11-2(1.4408)			○	
		Duplex stainless steel	--	A890-1B(CD4MCuN)	GX2CrNiMoCuN-25-6-3-3(1.4517)				NA
041	SHAFT SLEEVE	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)				NA
090	LANTERN RING	304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)		●		NA
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	NA
091	GLAND	304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)		●		NA
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	NA
117	GASKET	Joint sheet gasket	--	--	--	V#6500AC eq.	●	●	NA
119	GLAND PACKING	Silicon carbide fiber packing	--	--	--	P#6501L	●	●	NA
124	GLAND BOLT	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●		NA
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)			○	NA

(\*3) The components which constitute the gland packing pump are these parts instead of P/N 018, 042 and 111 of 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
A1	304 Stainless steel	304 Stainless steel	316 Stainless steel	Duplex stainless steel	304/316 Stainless steel wetted parts with Duplex stainless steel shaft
A2	316 Stainless steel	316 Stainless steel	316 Stainless steel	Duplex stainless steel	316 Stainless steel wetted parts with Duplex stainless steel shaft
D1	Duplex stainless steel	Duplex stainless steel	Duplex stainless steel	Duplex stainless steel	All wetted parts are Duplex stainless steel.

**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	-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 potable 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<sub>s</sub>: Suction pressure

**Gland packing**

Gland packing material	Liquid temp (*7)	Shaft no.230,240,250		Shaft no.260,270	
		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

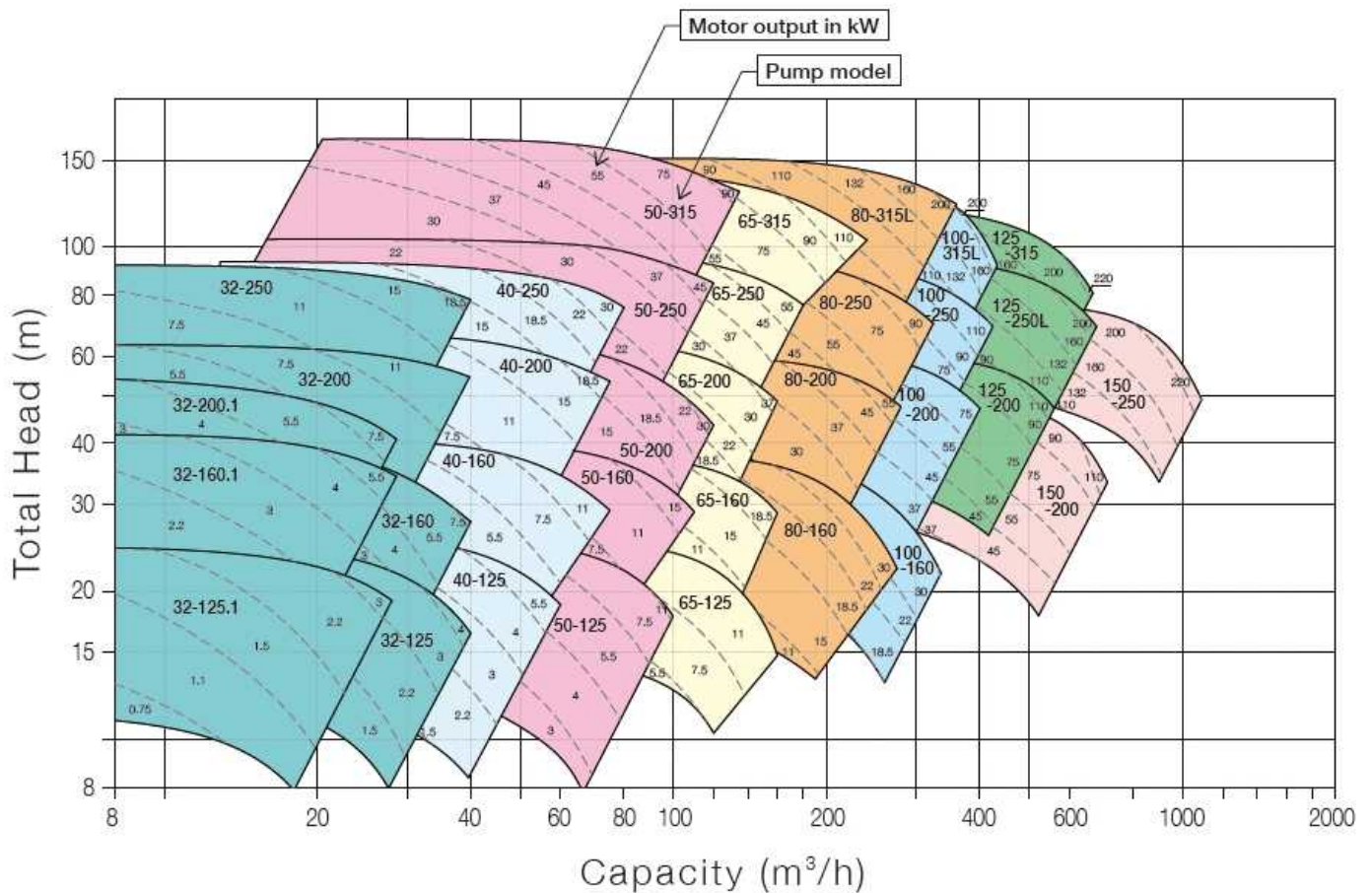
T.H.: Total head in pressure (Differential pressure)

P<sub>s</sub>: Suction pressure



SELECTION CHART

50Hz – 2900min<sup>-1</sup>



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 ;

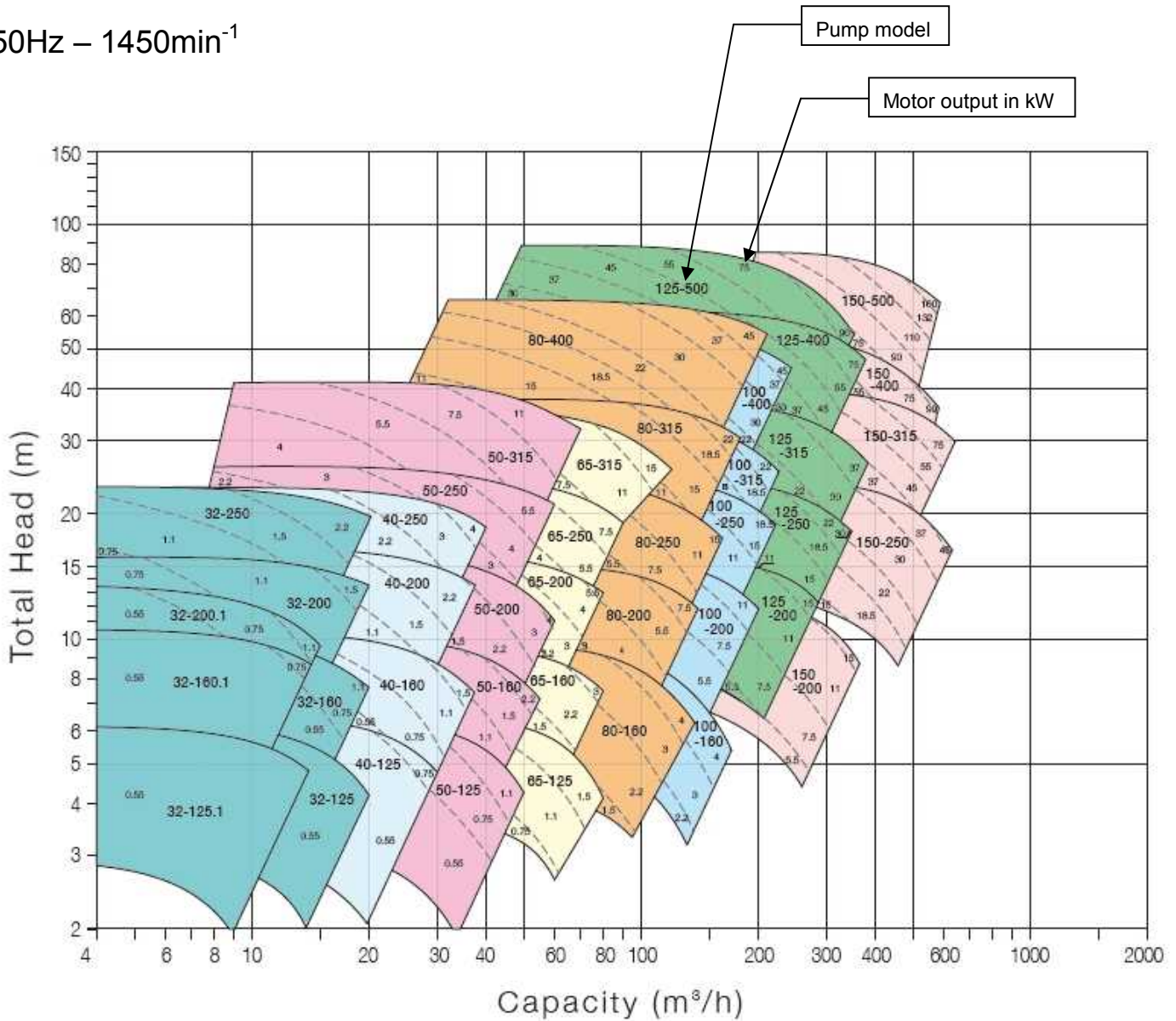
up to 7.5kW : 15%

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<sup>-1</sup>



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 ;

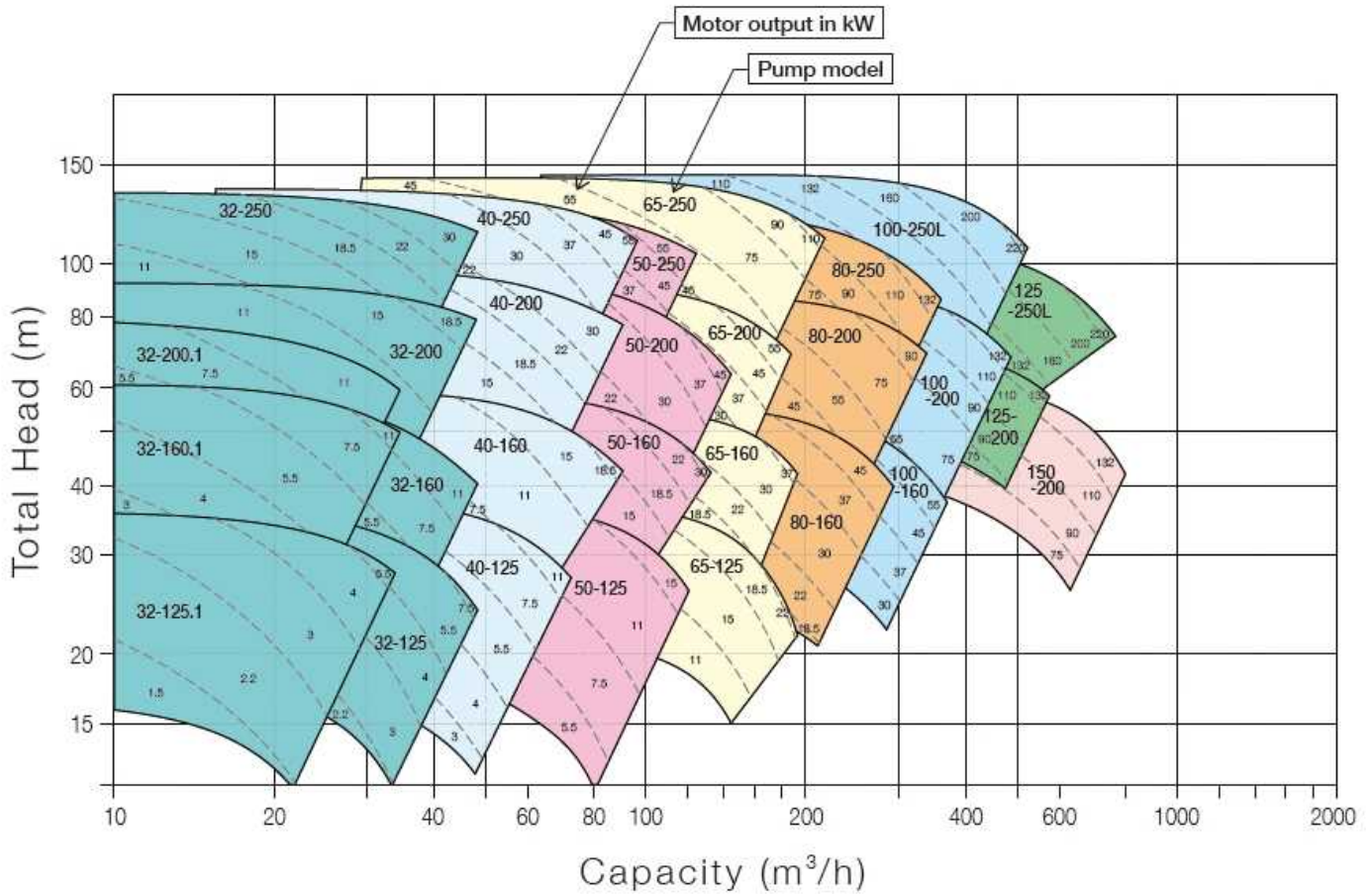
up to 7.5kW : 15%

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<sup>-1</sup>



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 ;

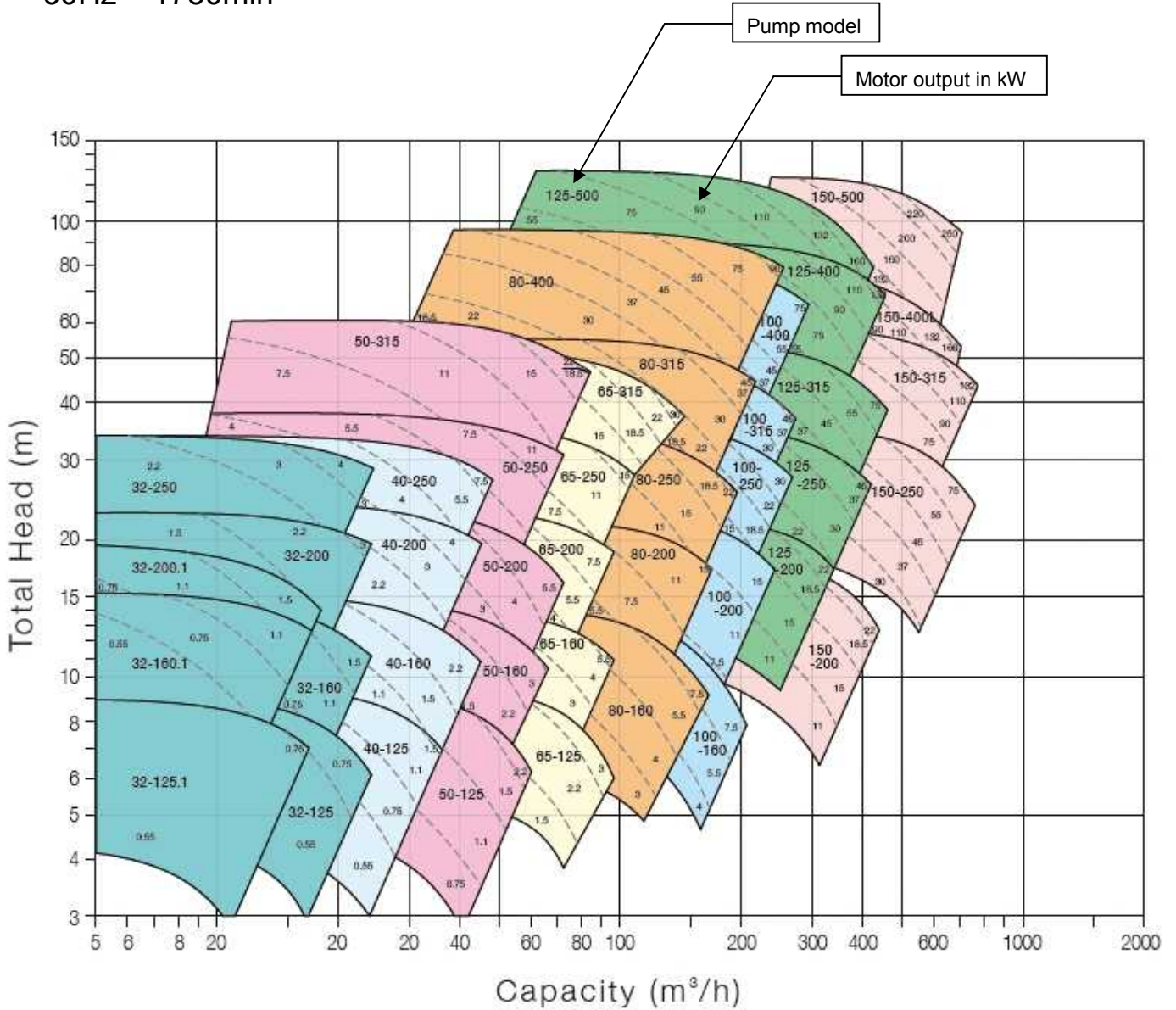
up to 7.5kW : 15%

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<sup>-1</sup>



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%

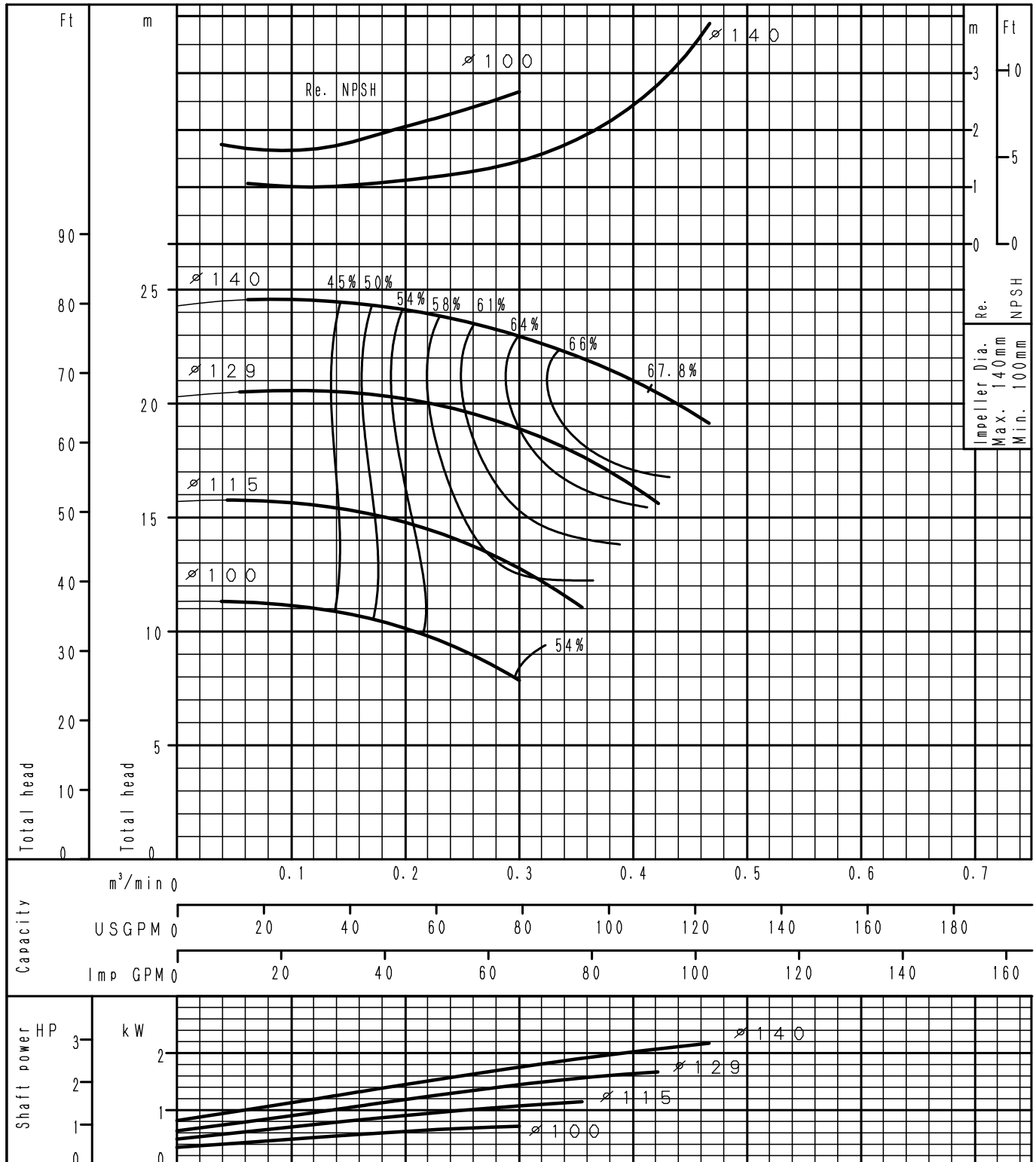
11kW and above : 10%

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

Performance Curve

2 Poles

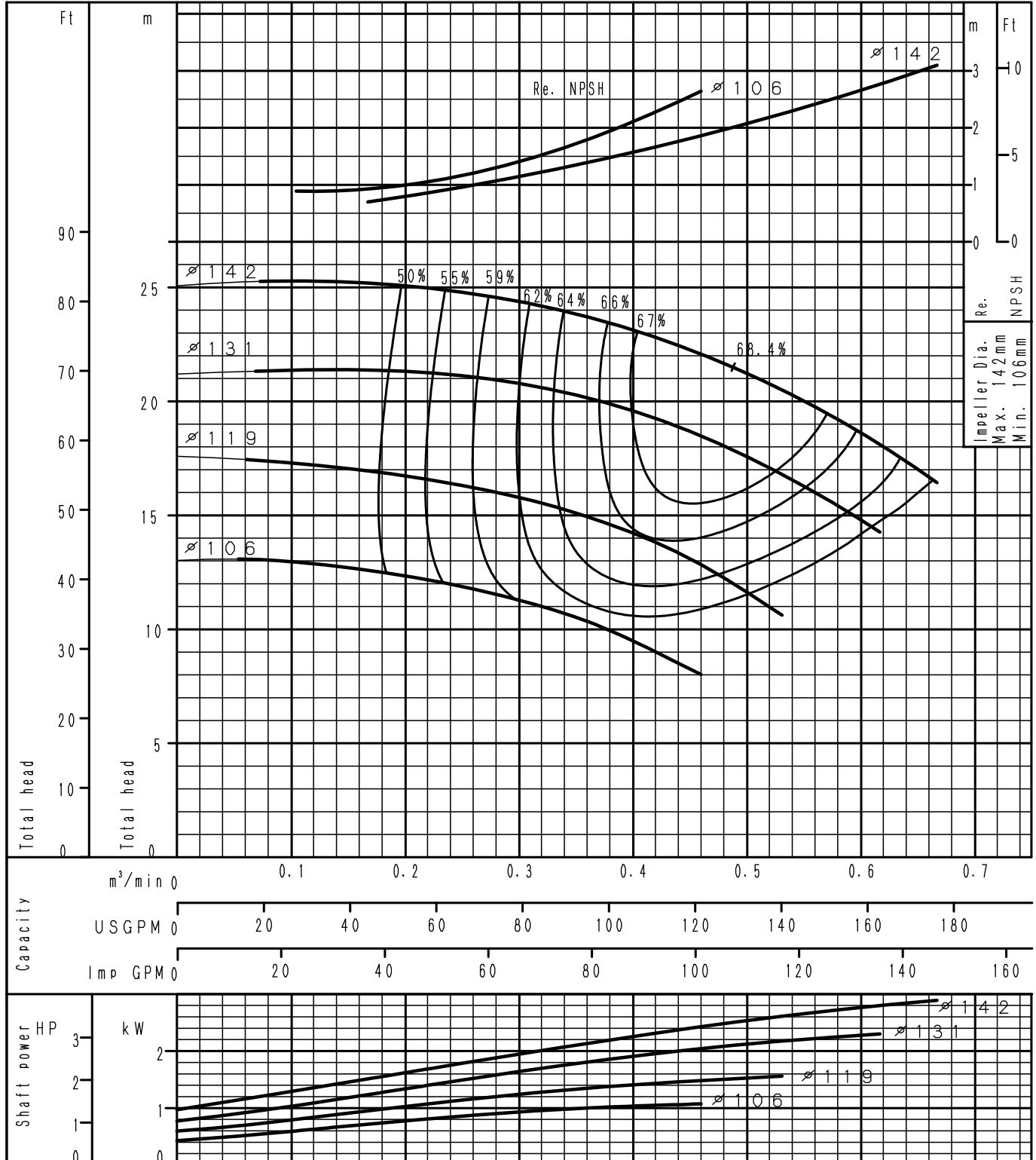
GSS32-125.1	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

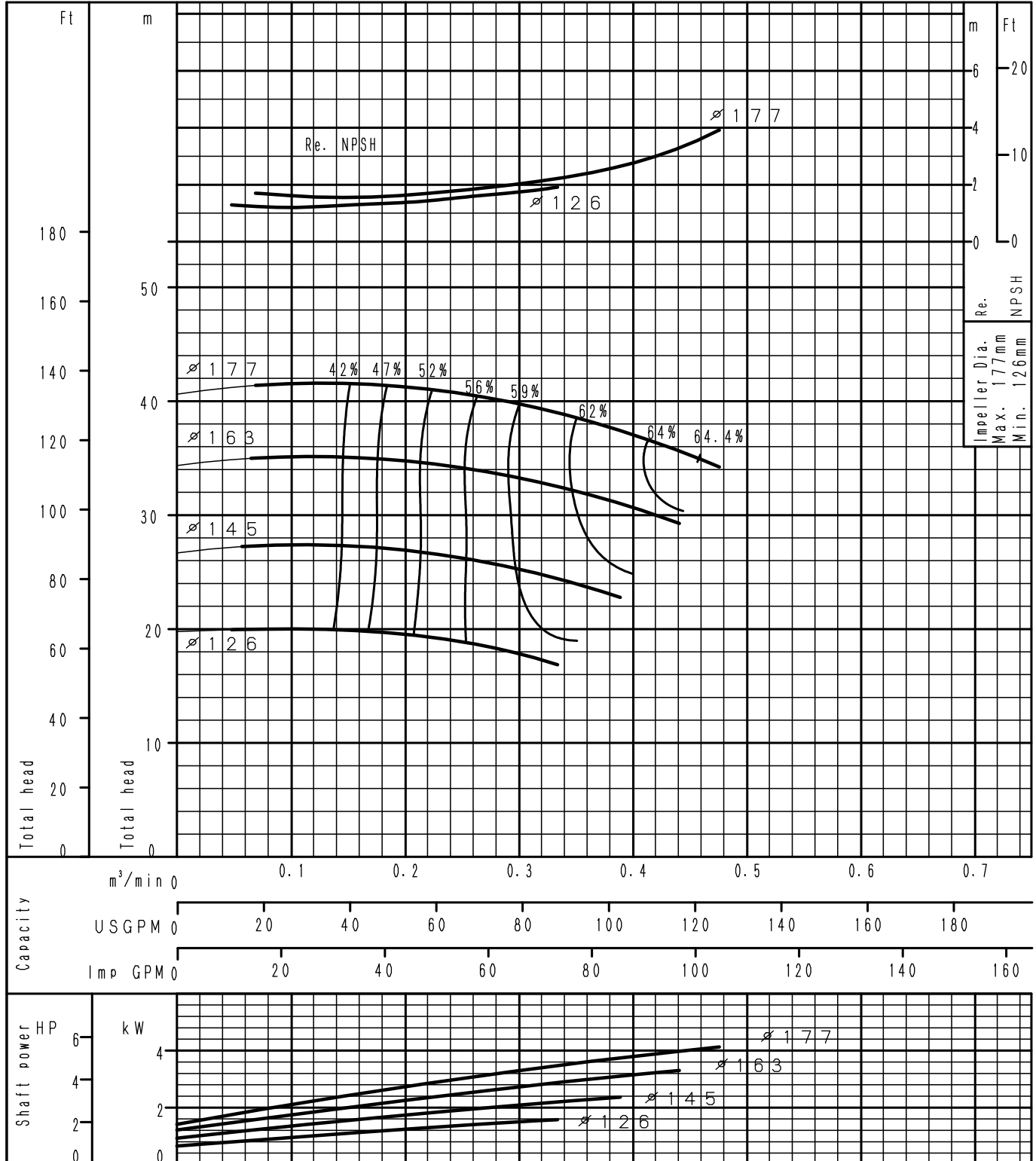
GSS32-125	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS32-160.1	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

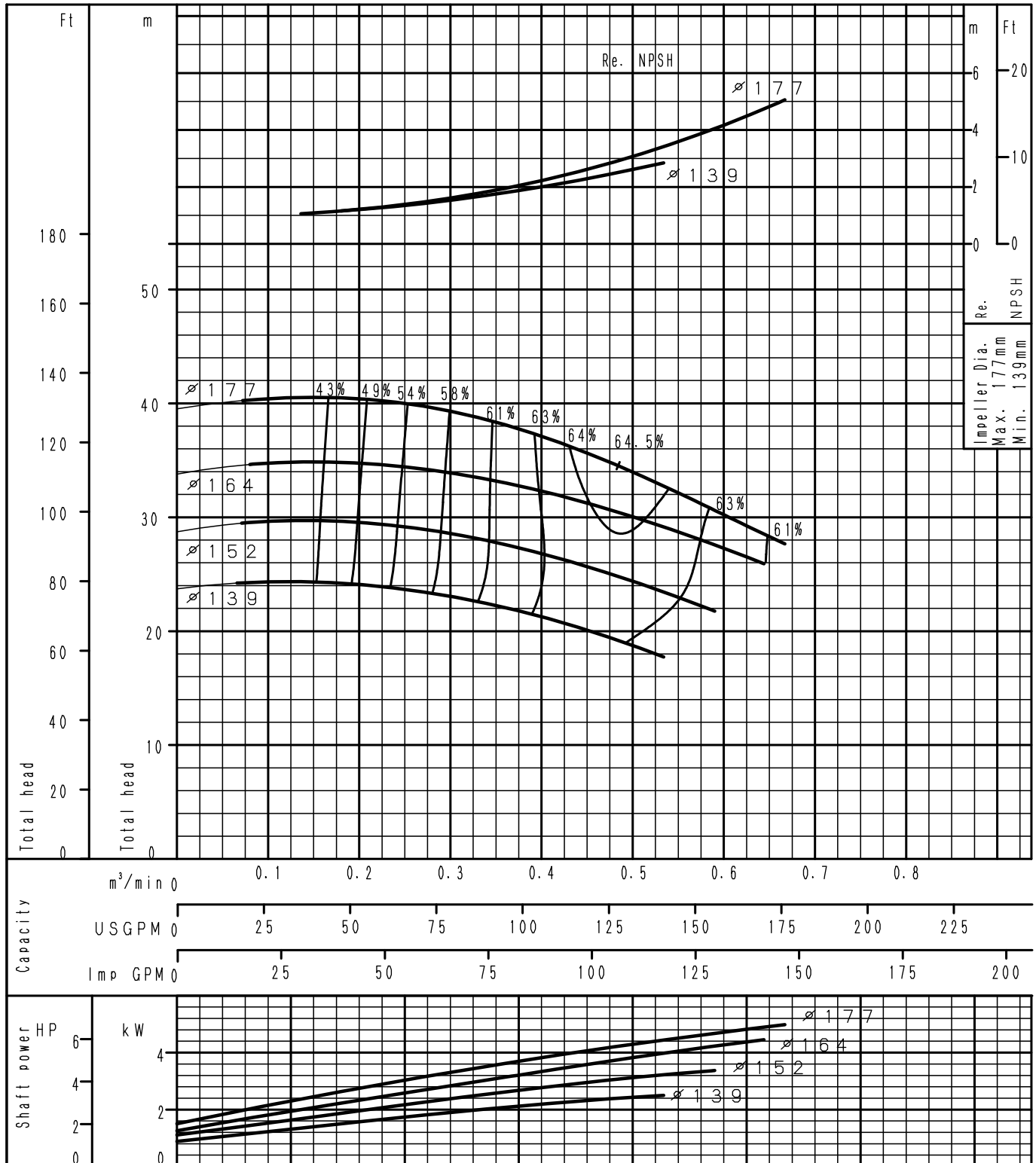


F8-1630798-01

Performance Curve

2 Poles

GSS32-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



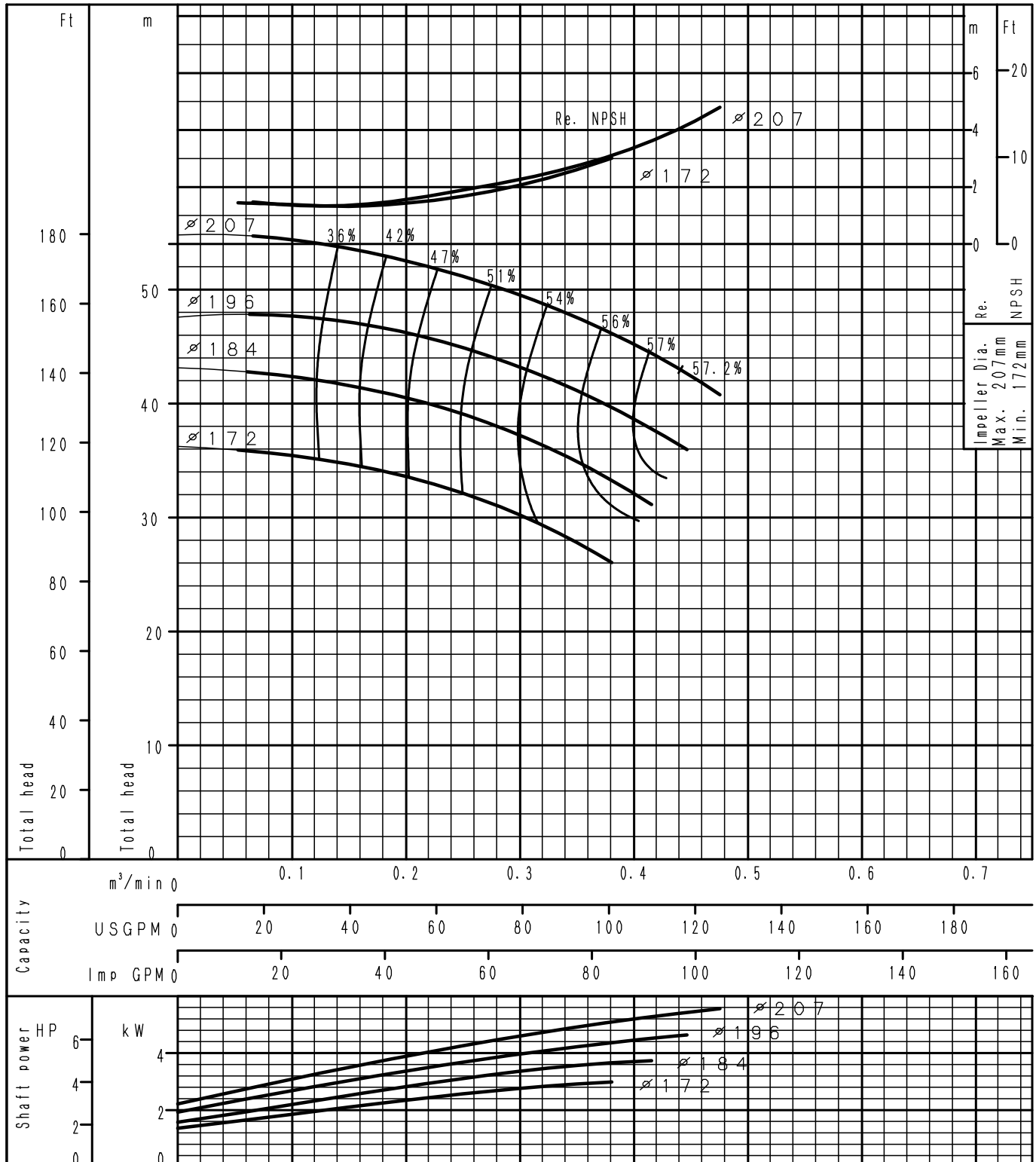
F8-1630799-01



Performance Curve

2 Poles

GSS32-200.1	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

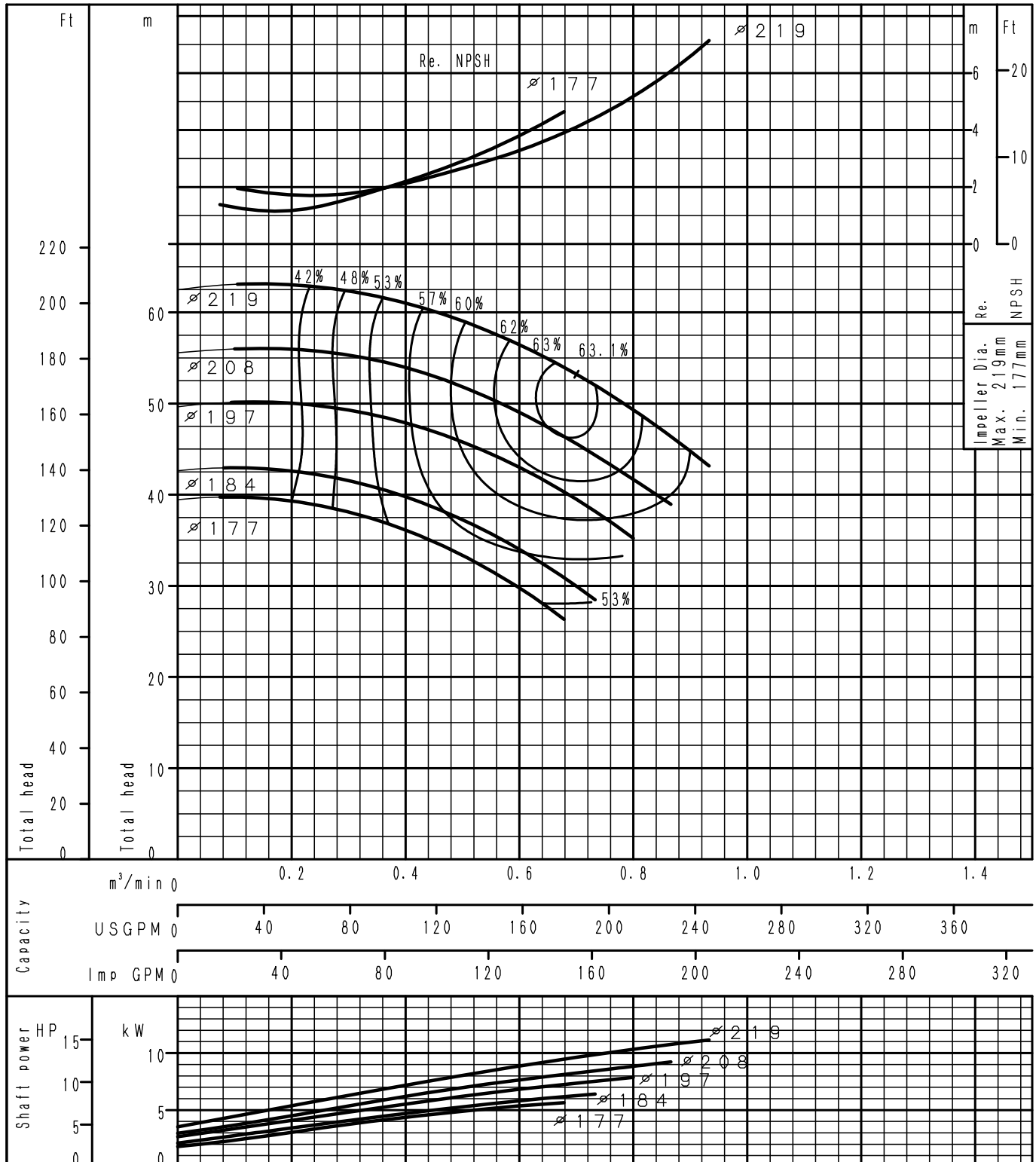


F8-1630800-01

Performance Curve

2 Poles

GSS32-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

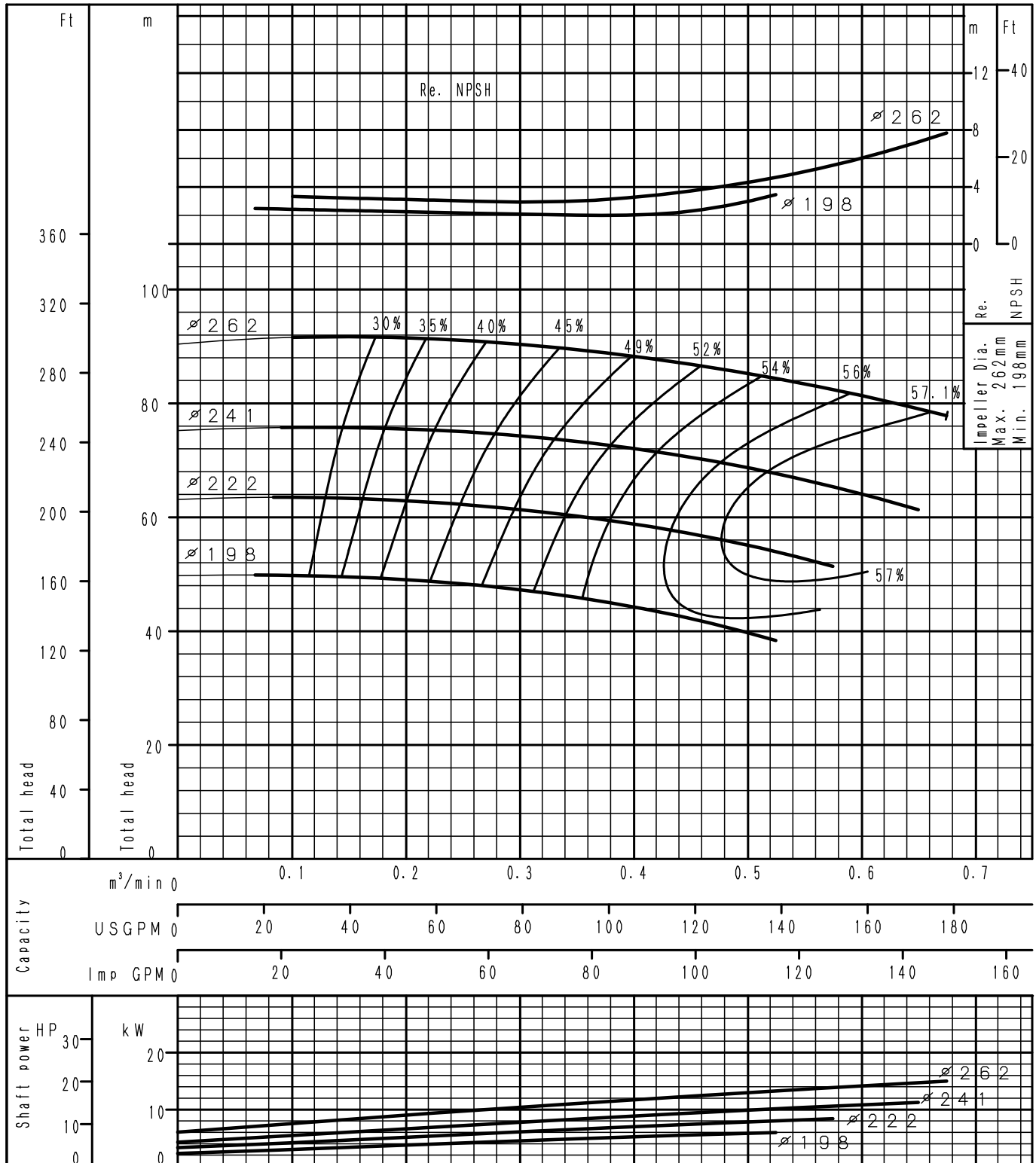


F8-1630801-01

Performance Curve

2 Poles

GSS32-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

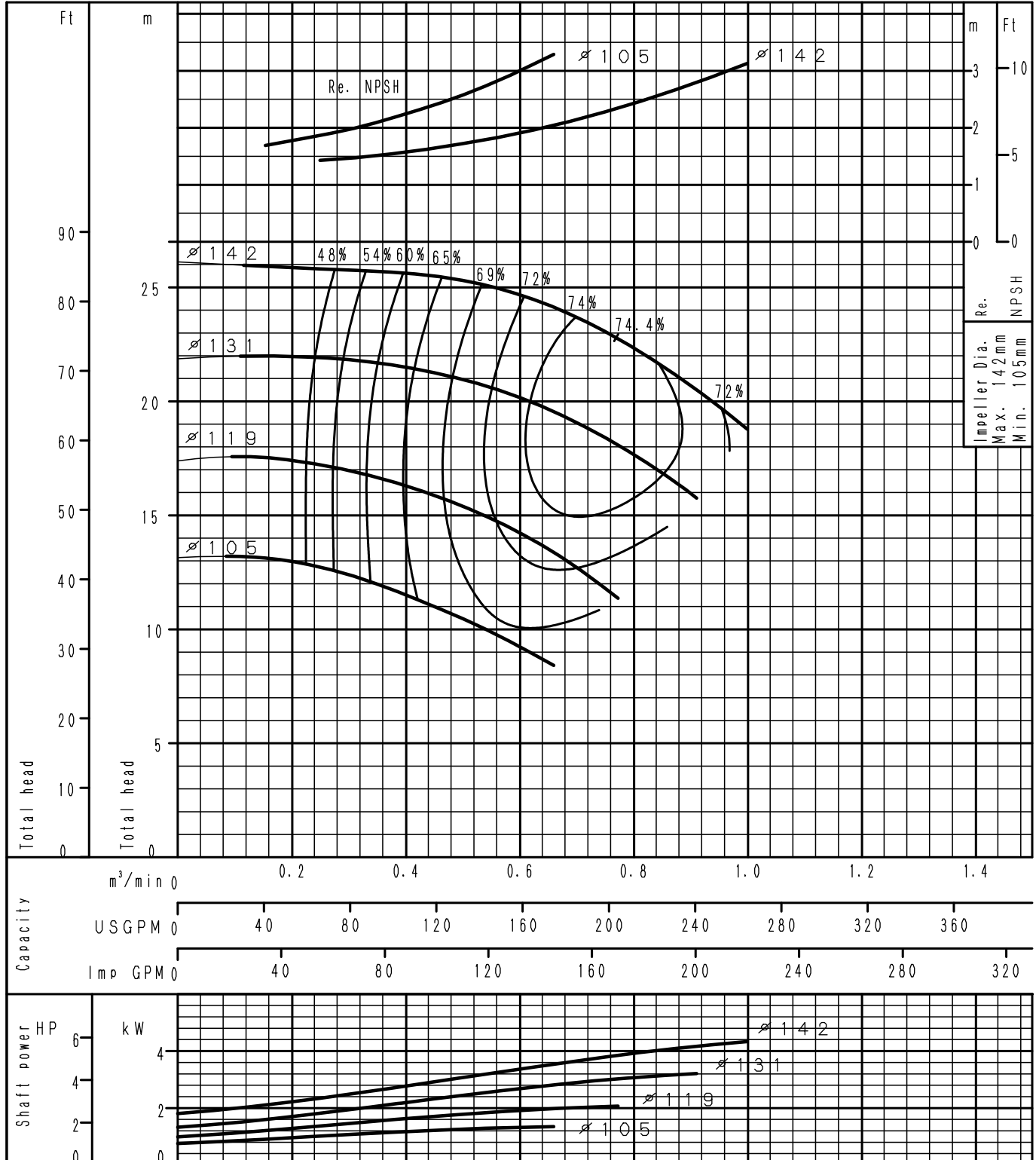


F8-1630802-01

Performance Curve

2 Poles

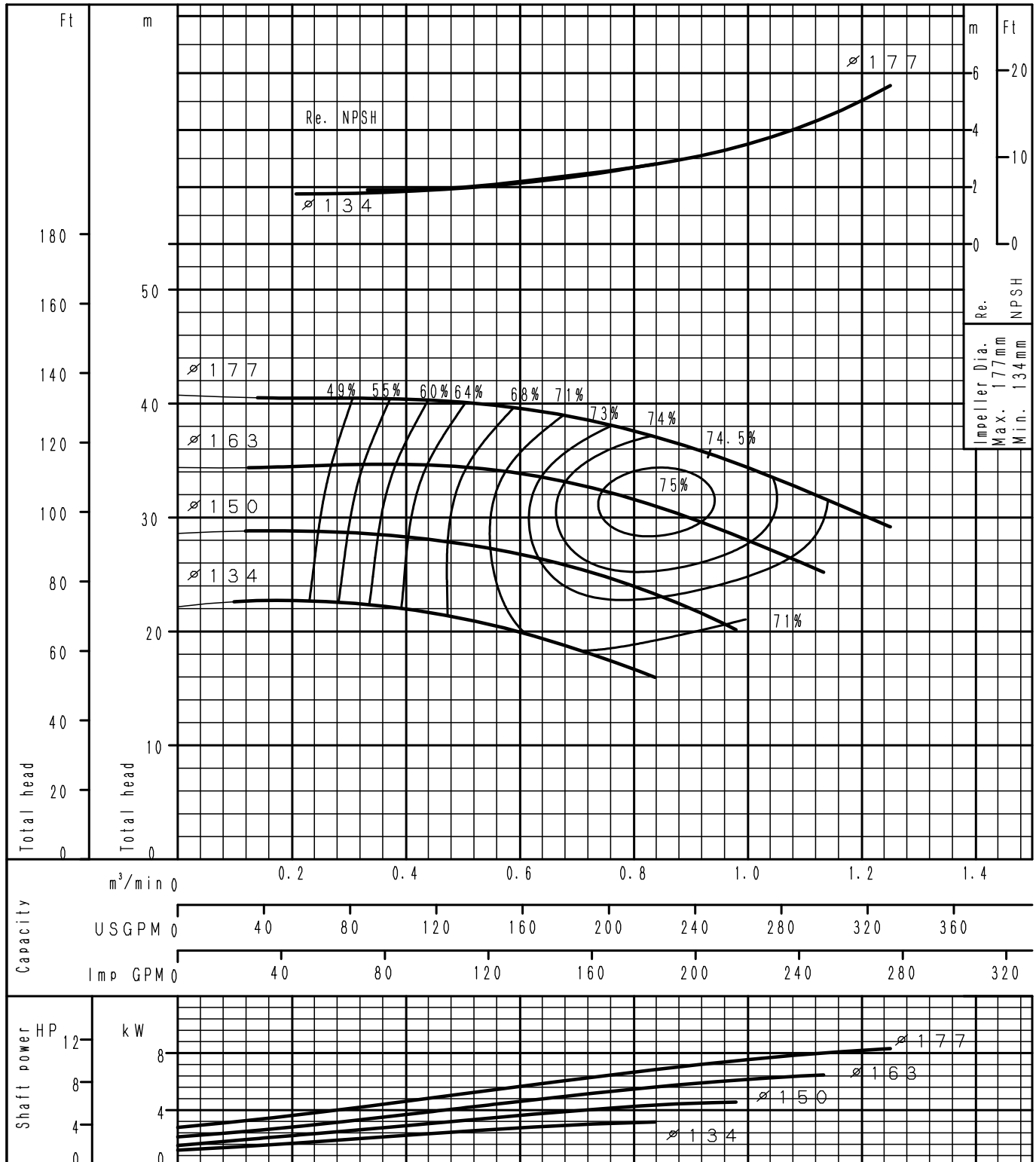
<h1 style="margin: 0;">GSS40-125</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS40-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

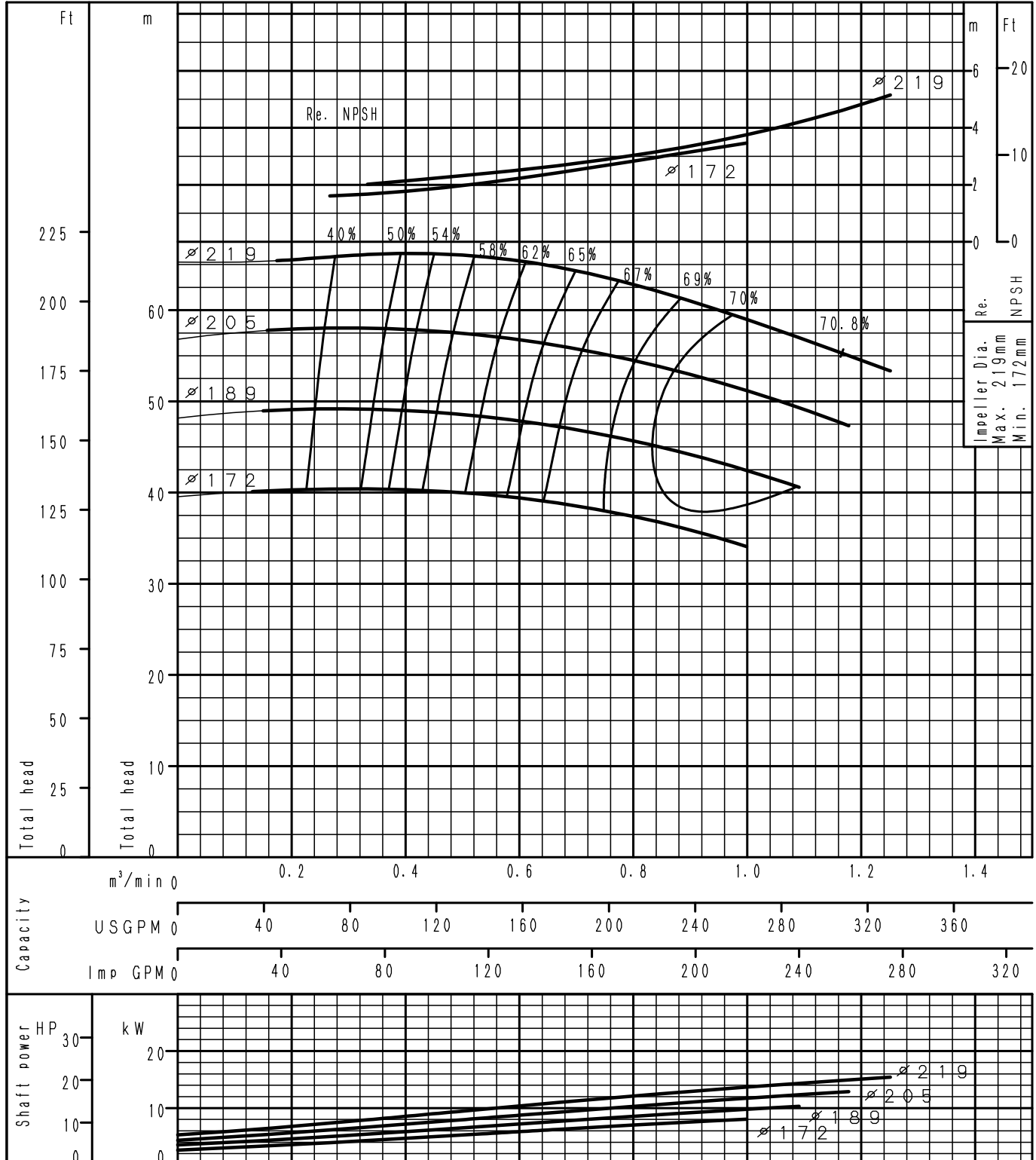


F8-1630804-01

Performance Curve

2 Poles

GSS40-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

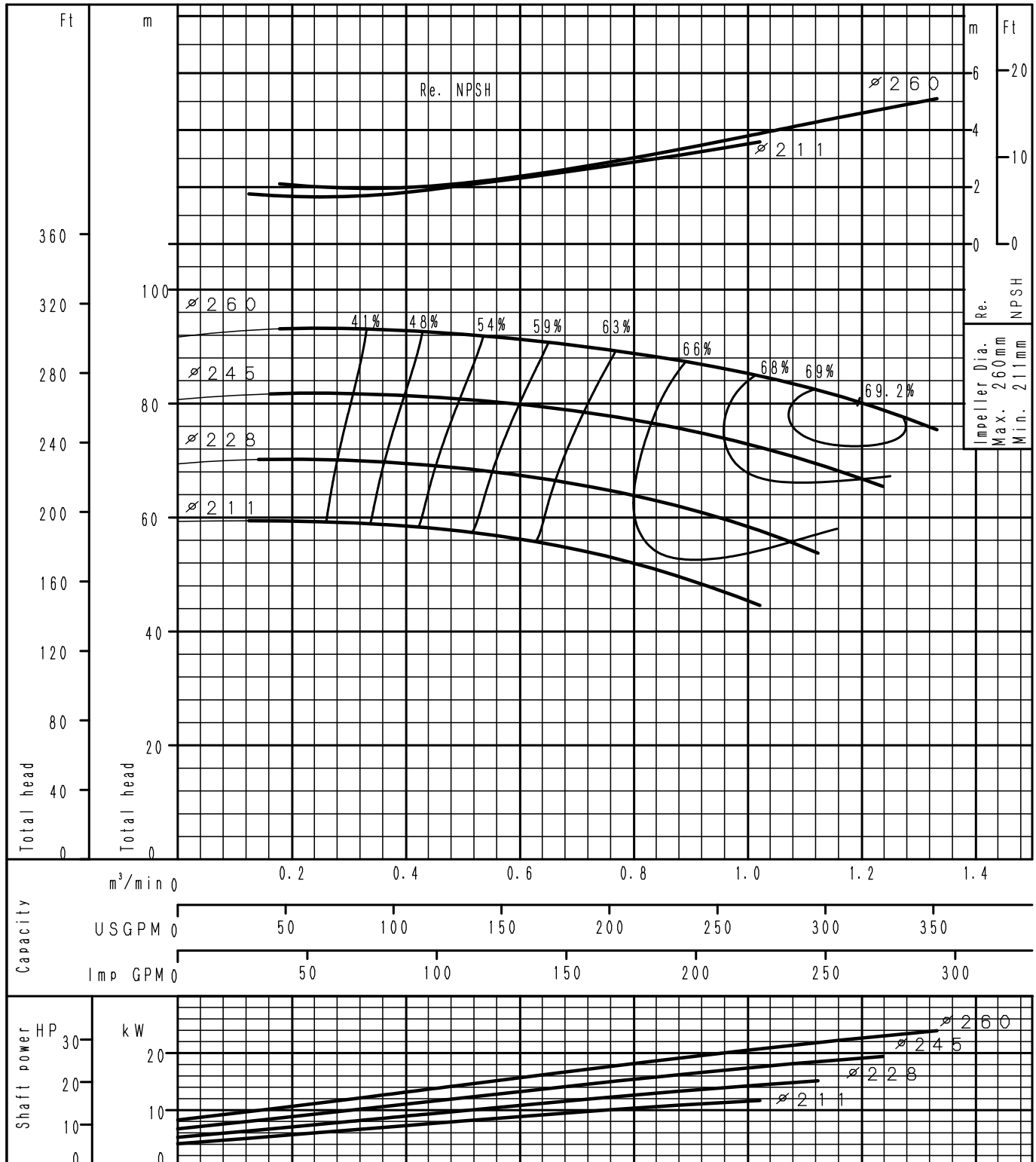


F8-1630805-01

Performance Curve

2 Poles

GSS40-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

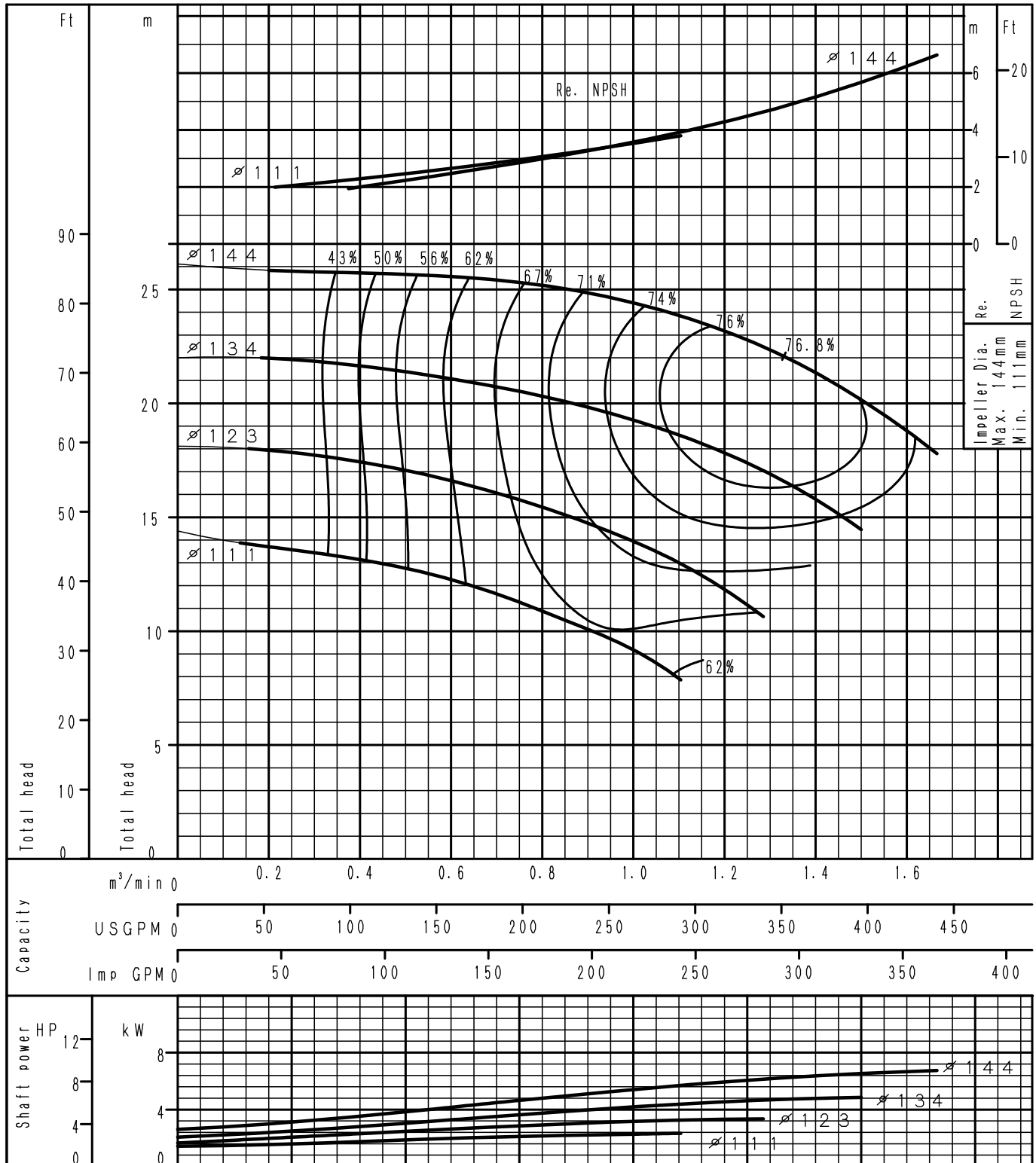


F8-1630806-01

Performance Curve

2 Poles

<h1 style="margin: 0;">GSS50-125</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



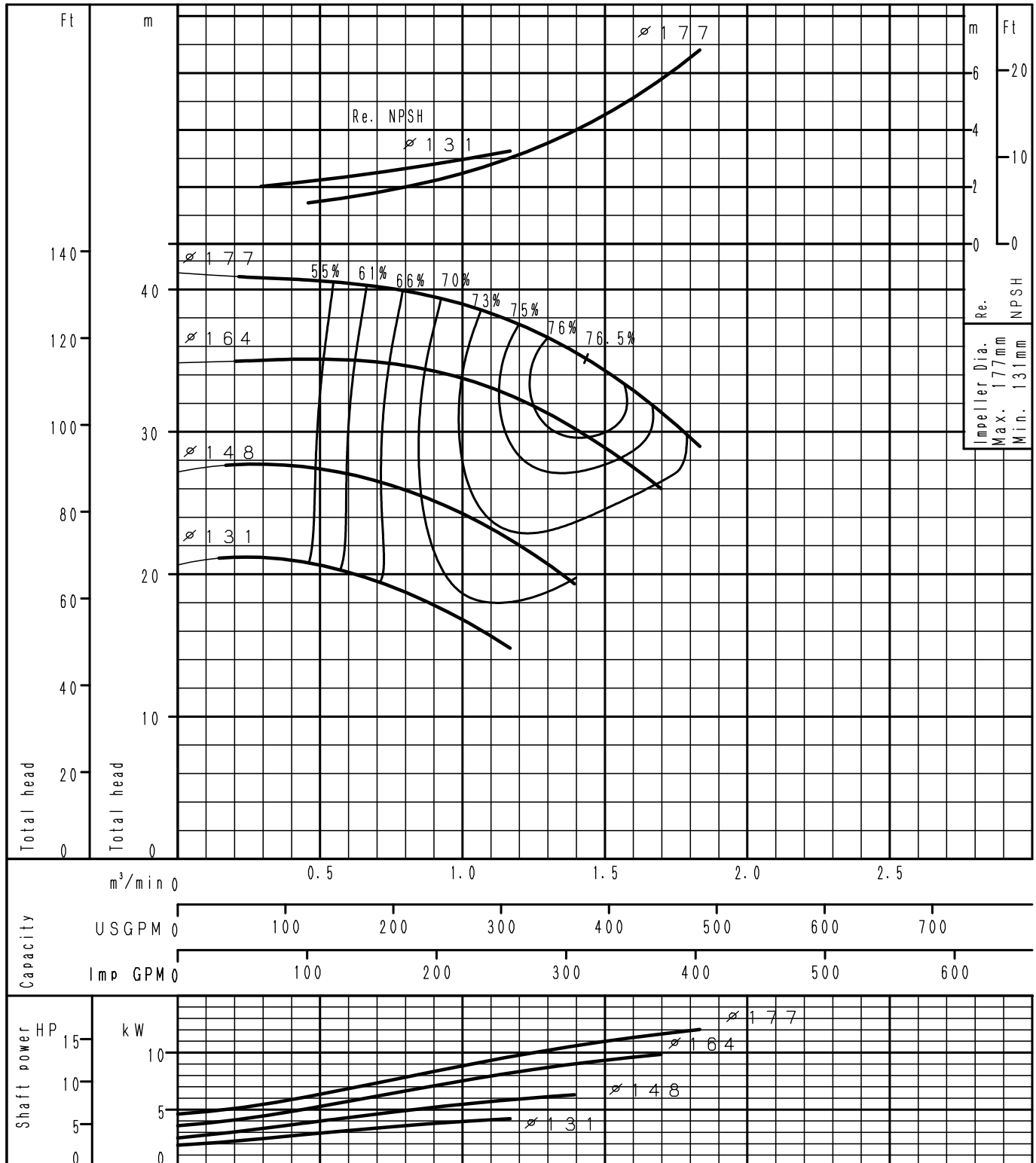
F8-1630807-01



Performance Curve

2 Poles

GSS50-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



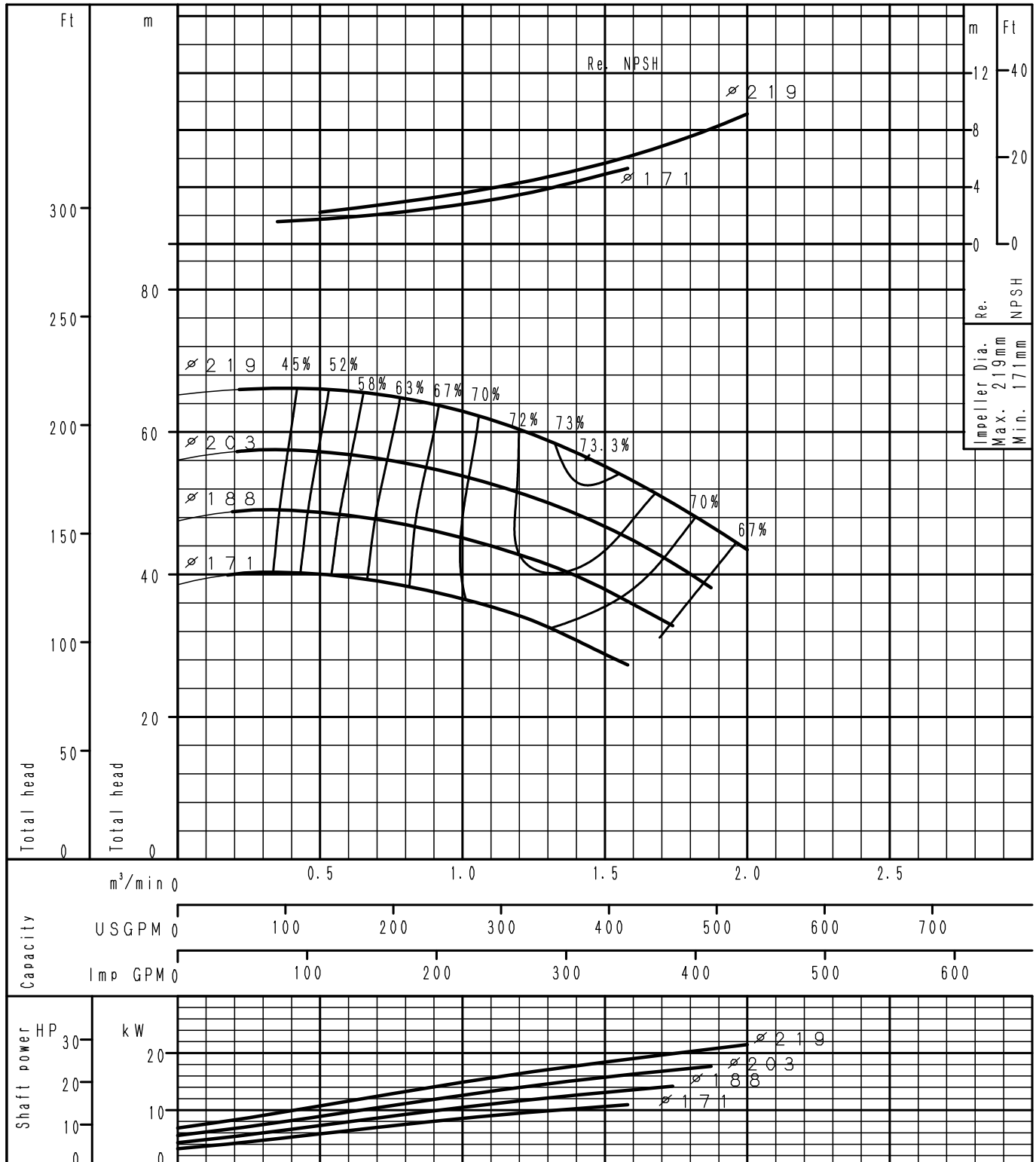
F8-1630808-01



Performance Curve

2 Poles

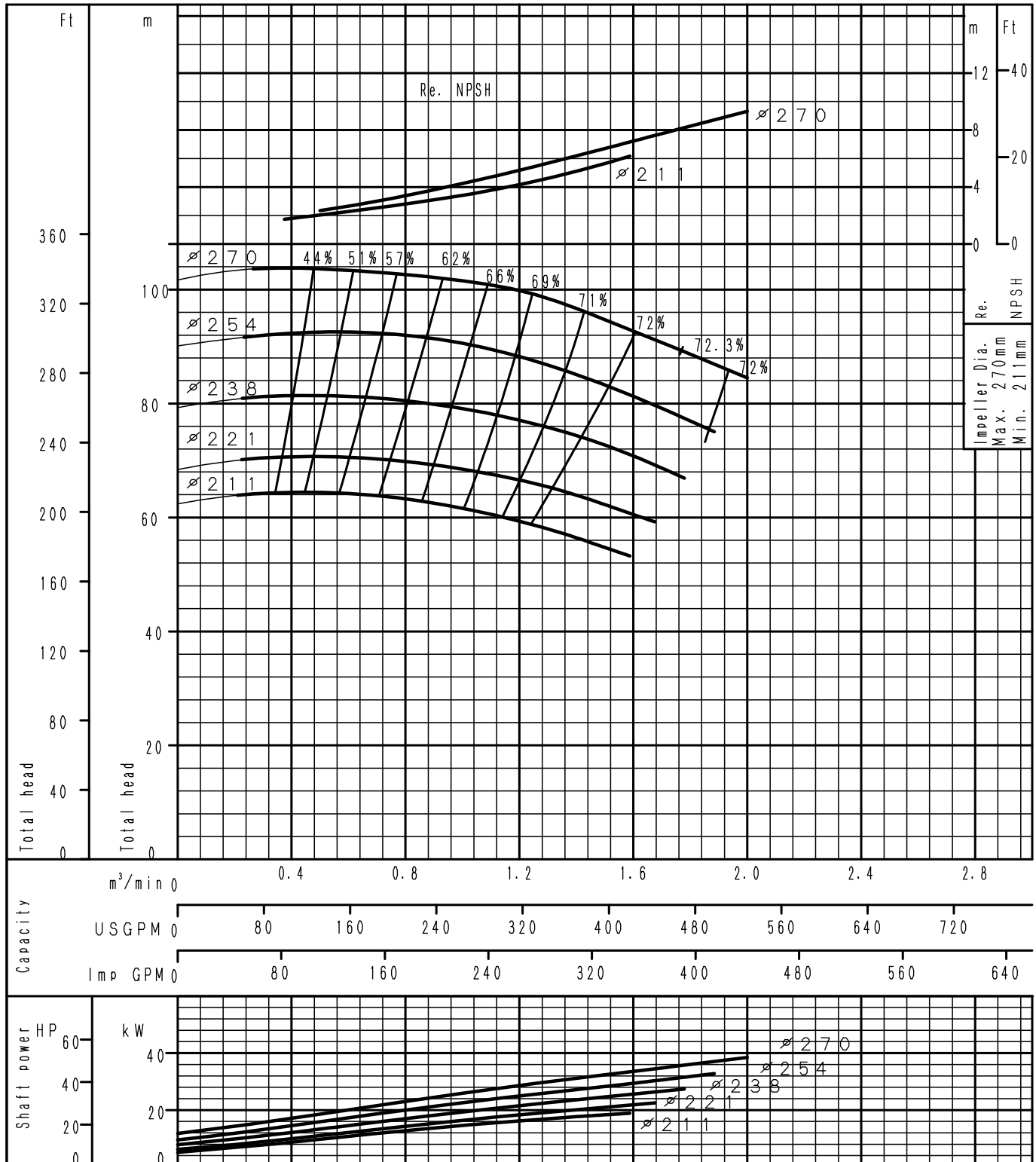
GSS50-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS50-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

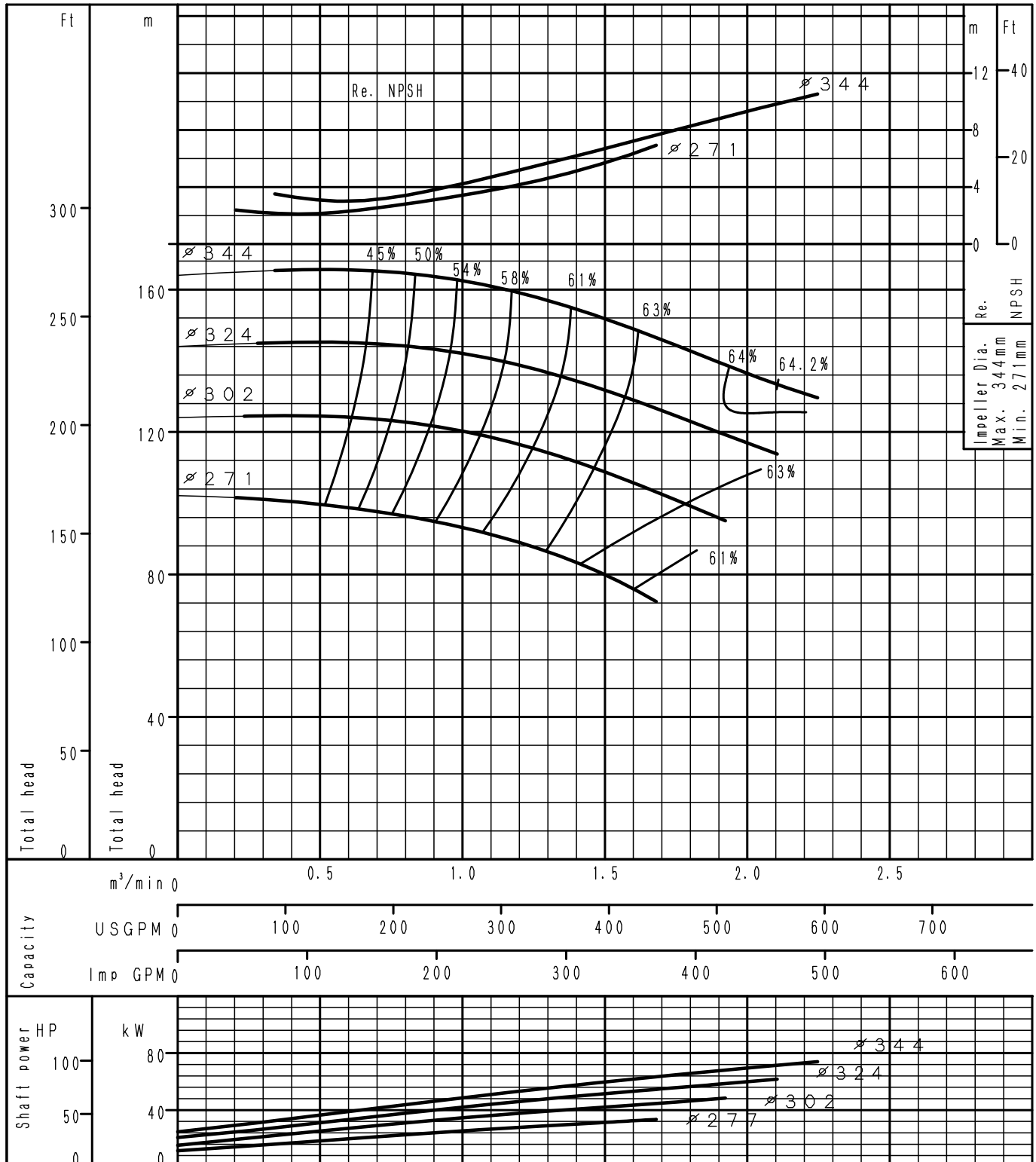


F8-1630810-01

Performance Curve

2 Poles

GSS50-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

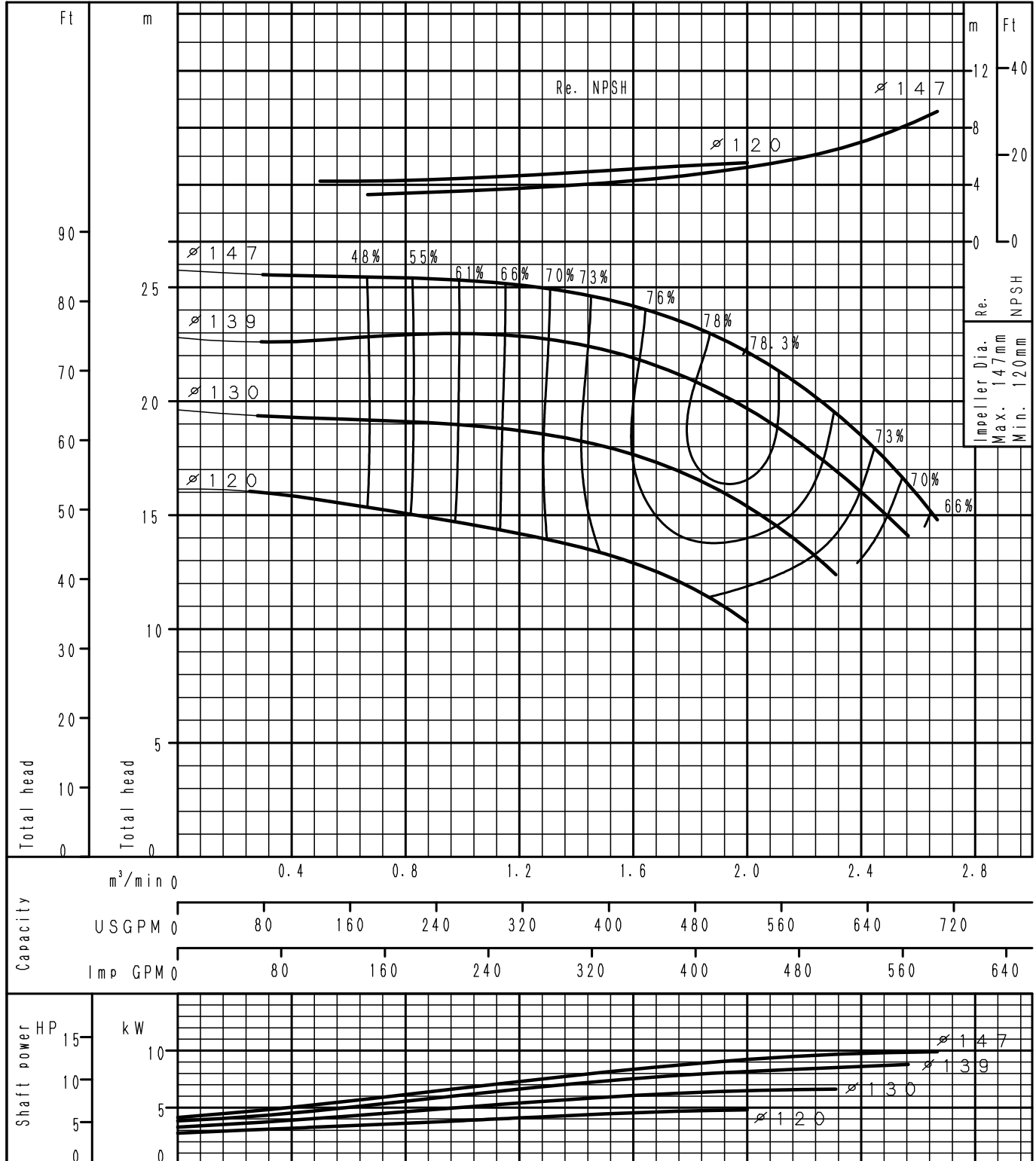


F8-1630811-01

Performance Curve

2 Poles

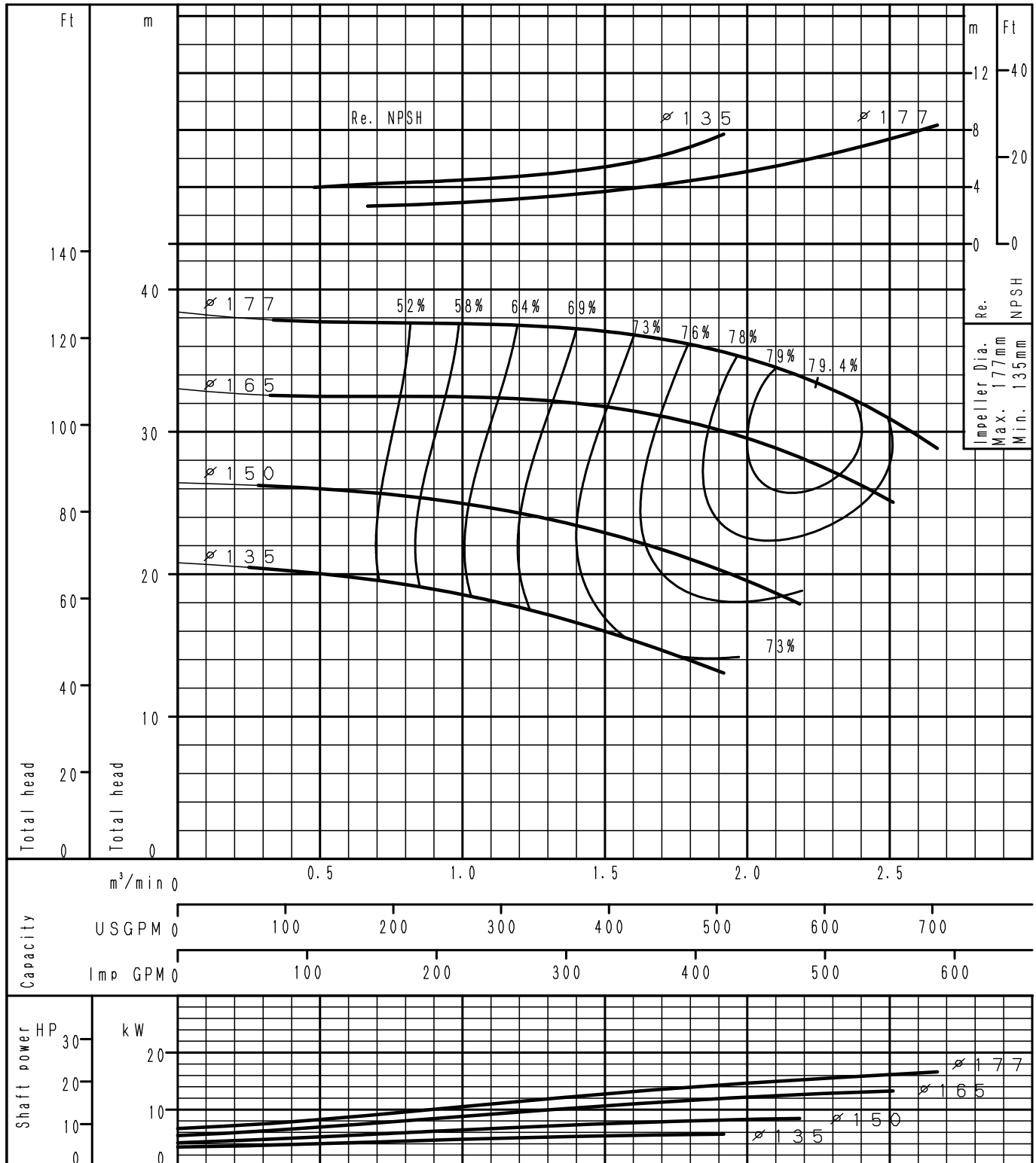
GSS65-125	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

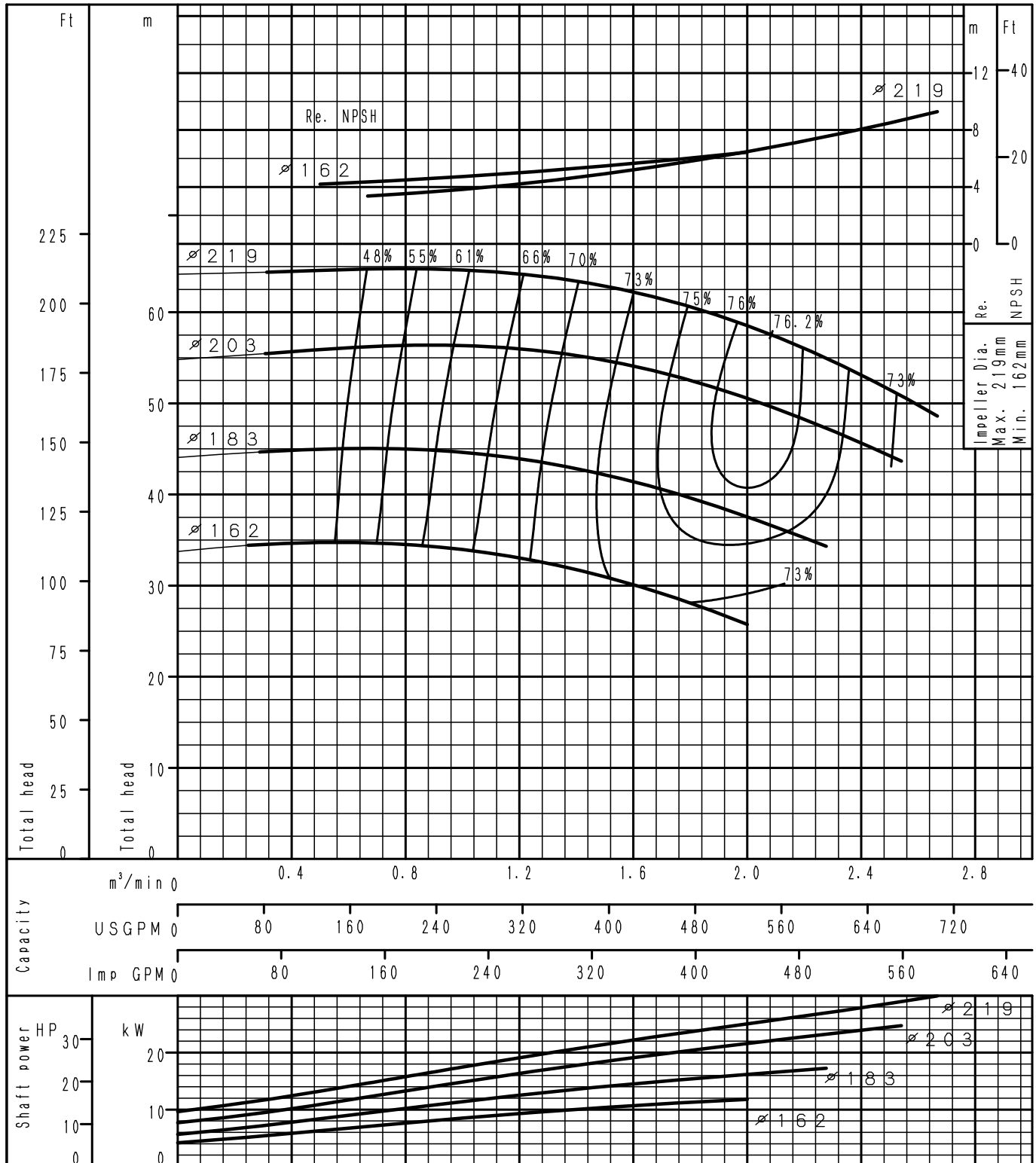
GSS65-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS65-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

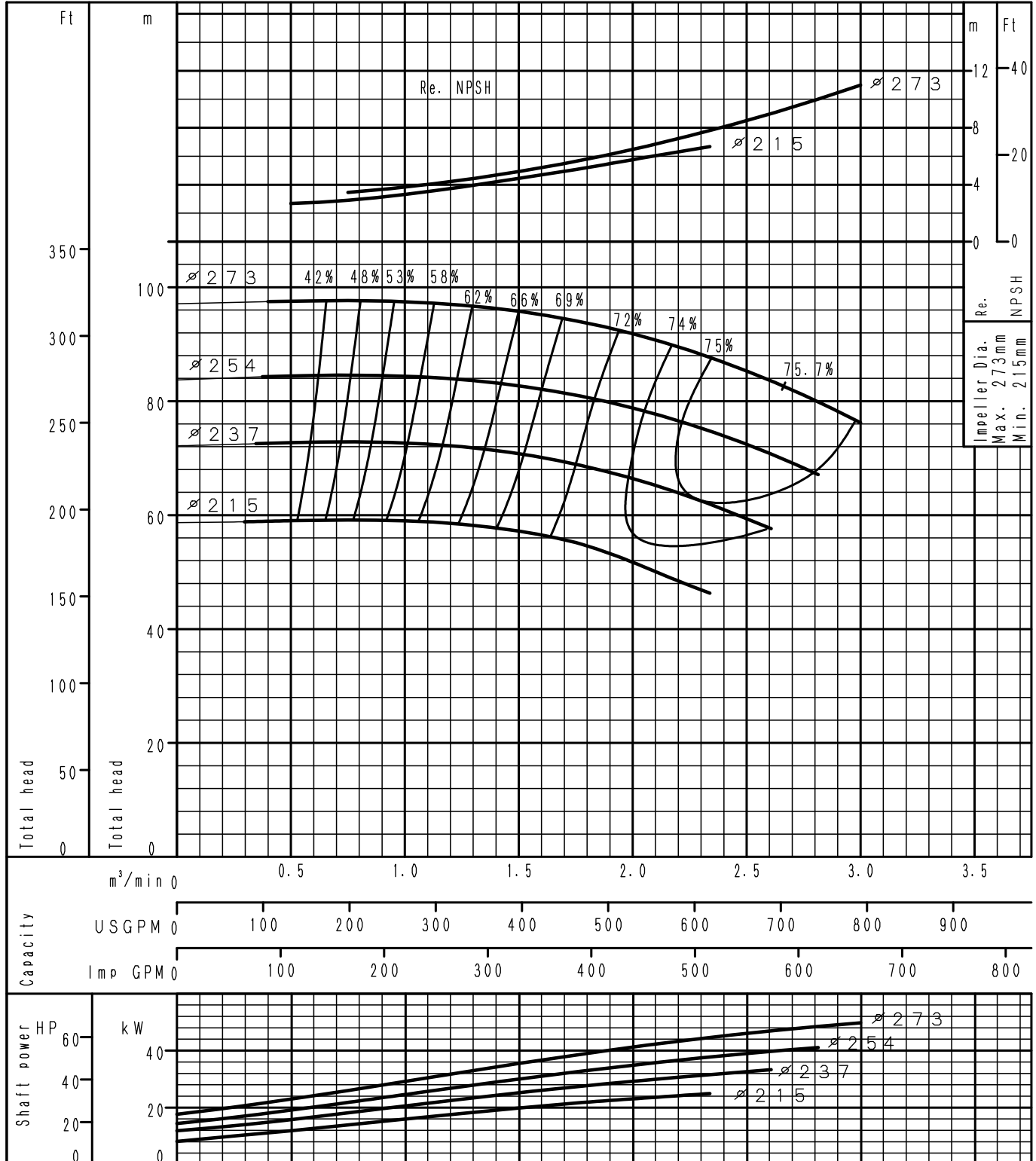


F8-1630814-01

Performance Curve

2 Poles

GSS65-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



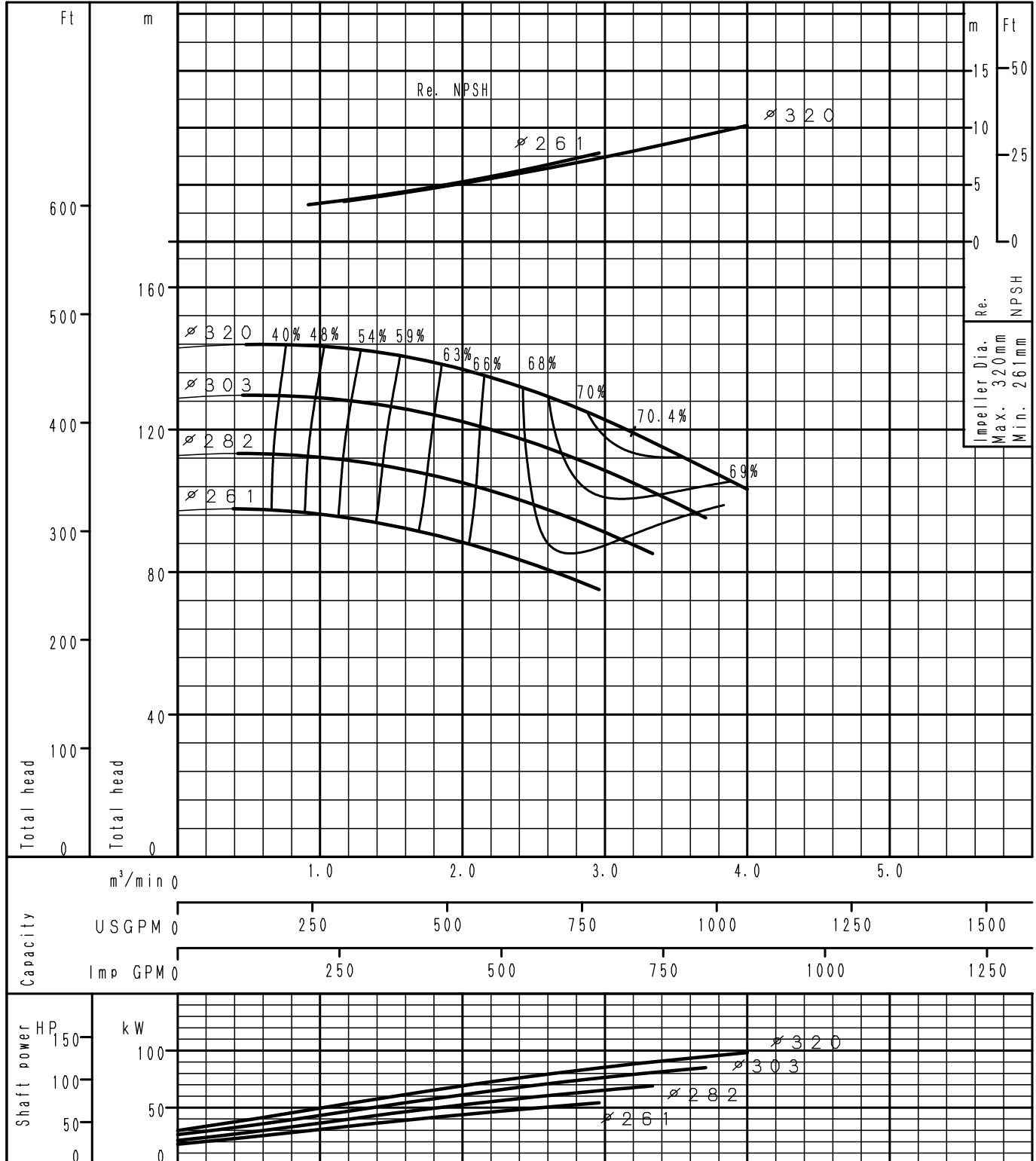
F8-1630815-01



Performance Curve

2 Poles

GSS65-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

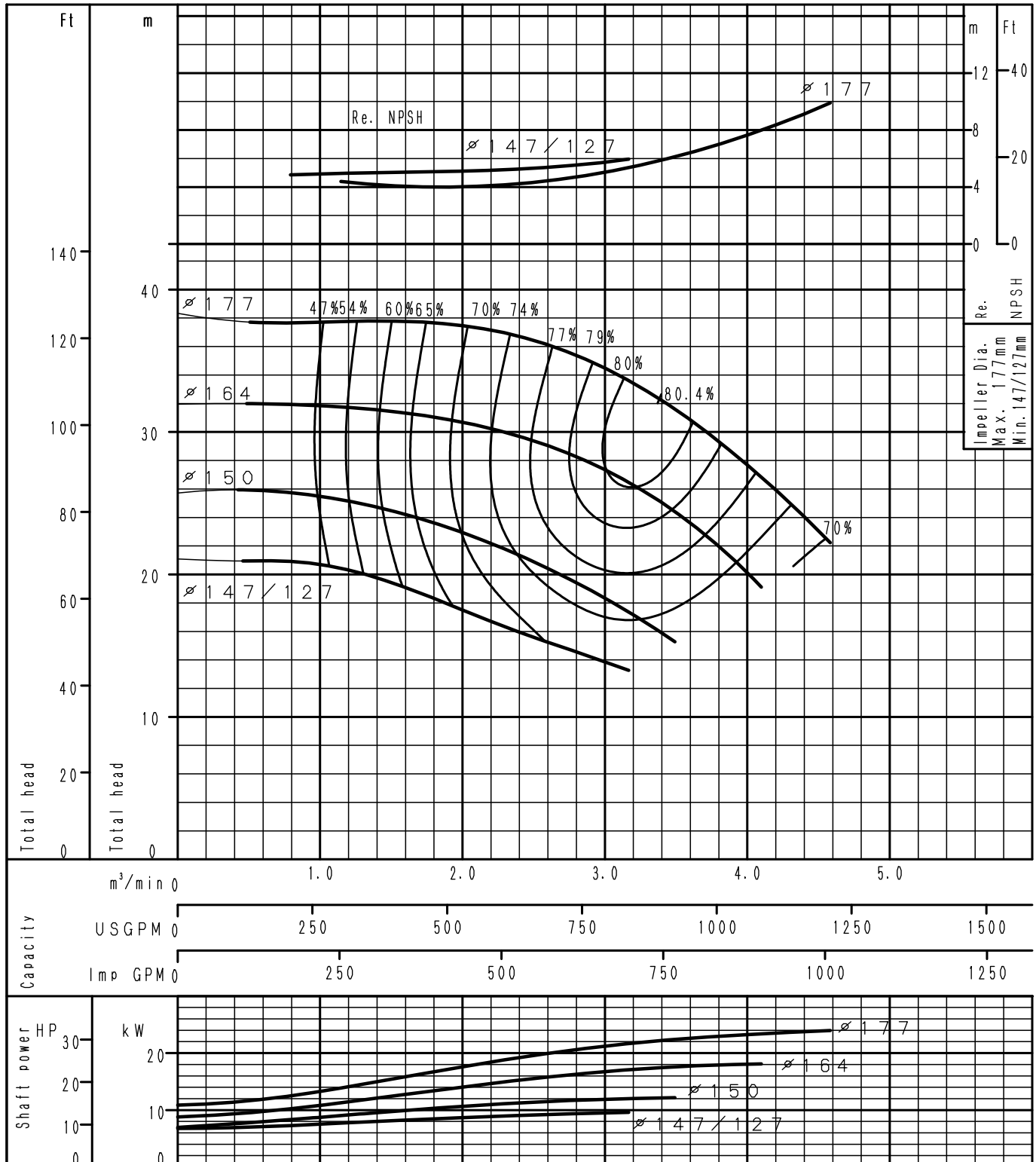


F8-1630816-01

Performance Curve

2 Poles

GSS80-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

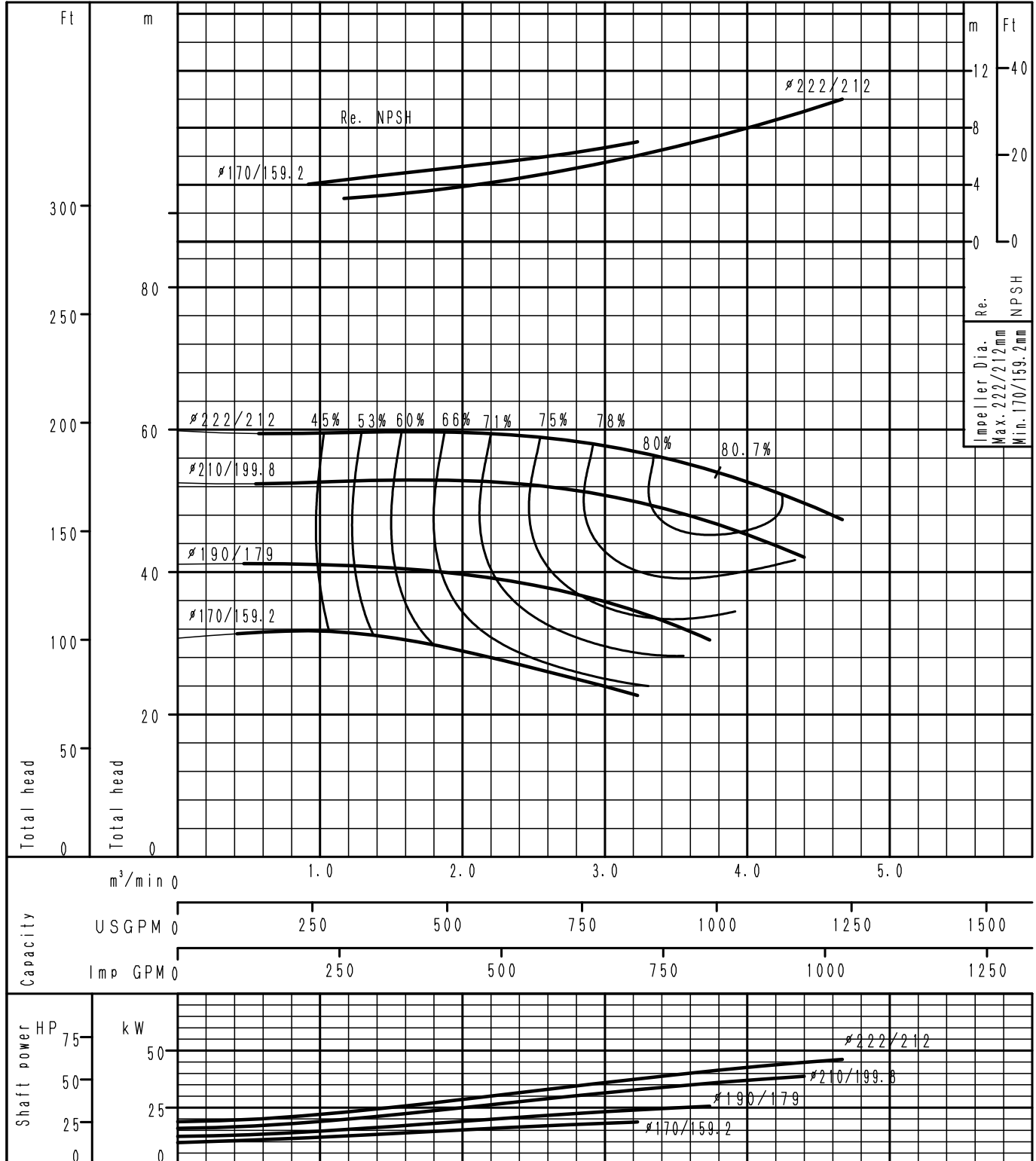


F8-1630817-01

Performance Curve

2 Poles

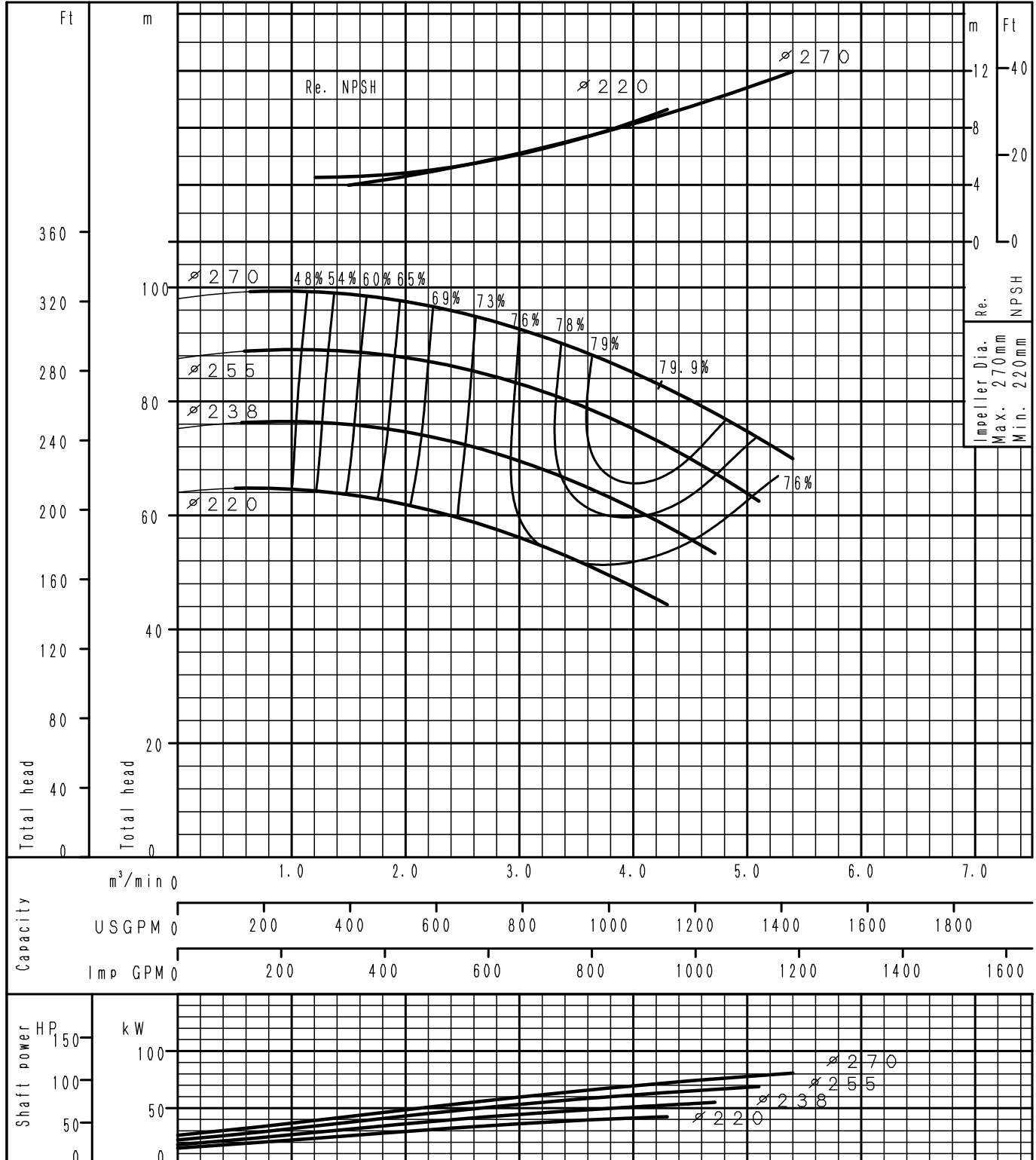
GSS80-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS80-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



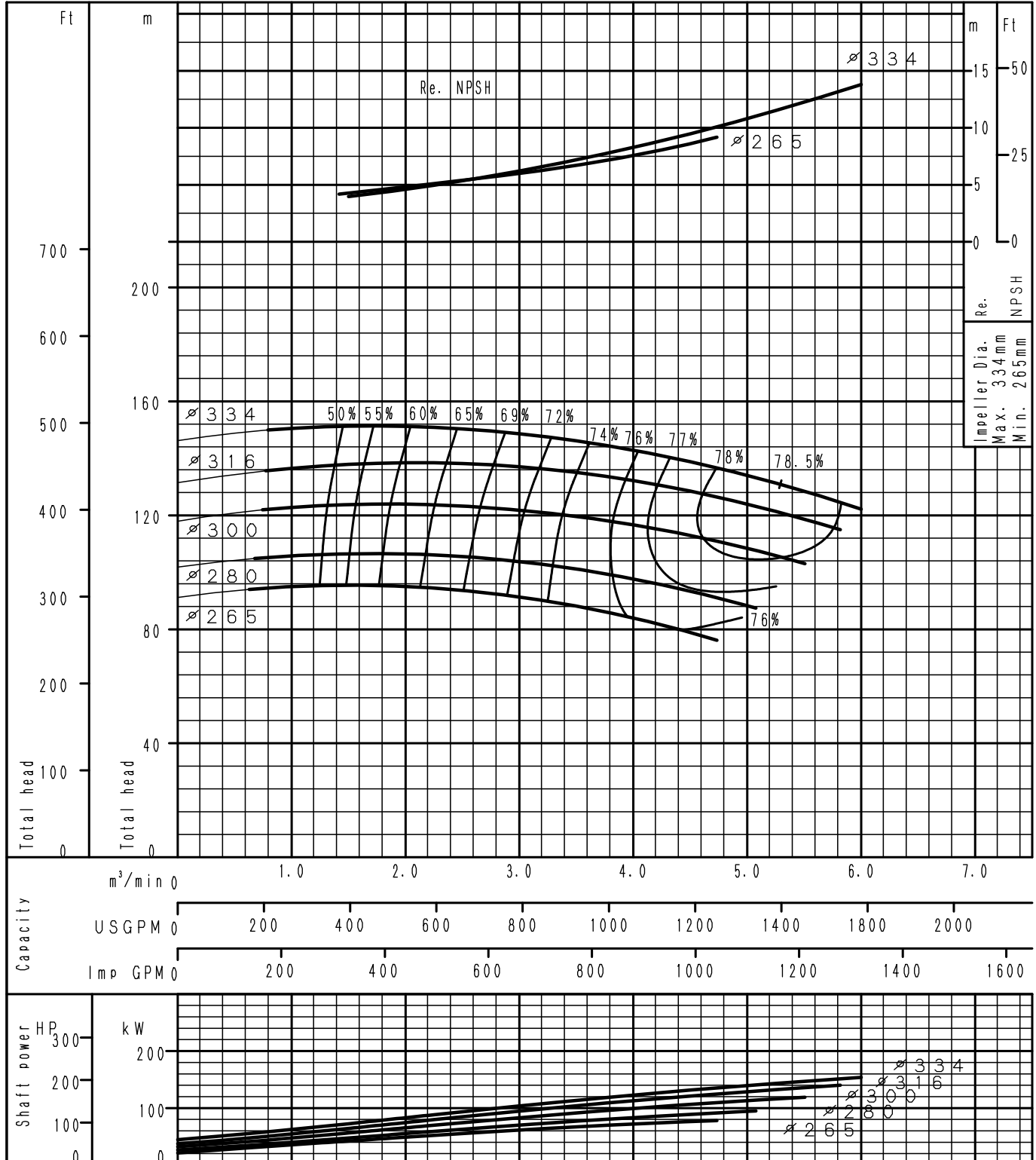
F8-1630819-01



Performance Curve

2 Poles

GSS80-315L	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

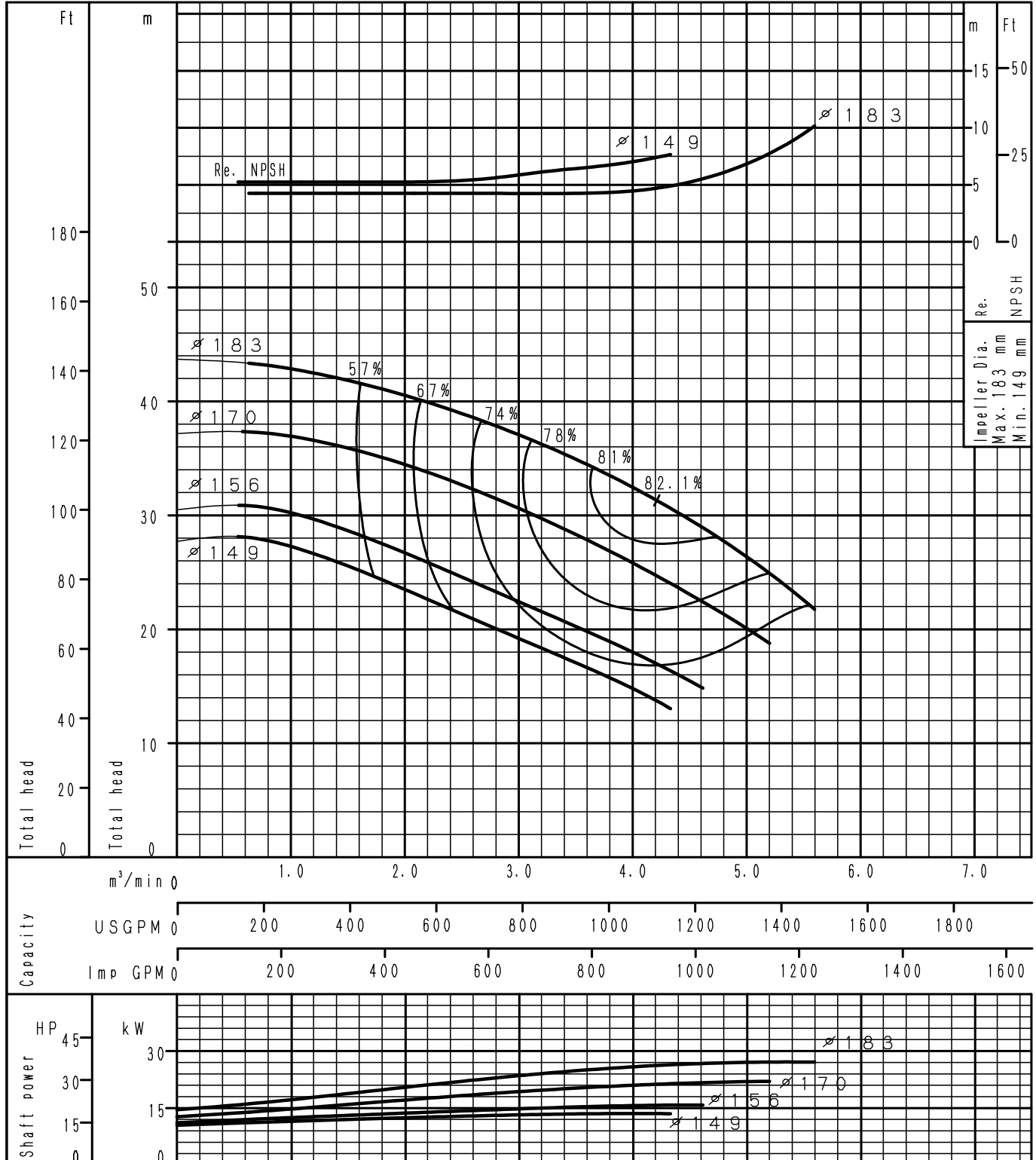


F8-1630820-01

Performance Curve

2 Poles

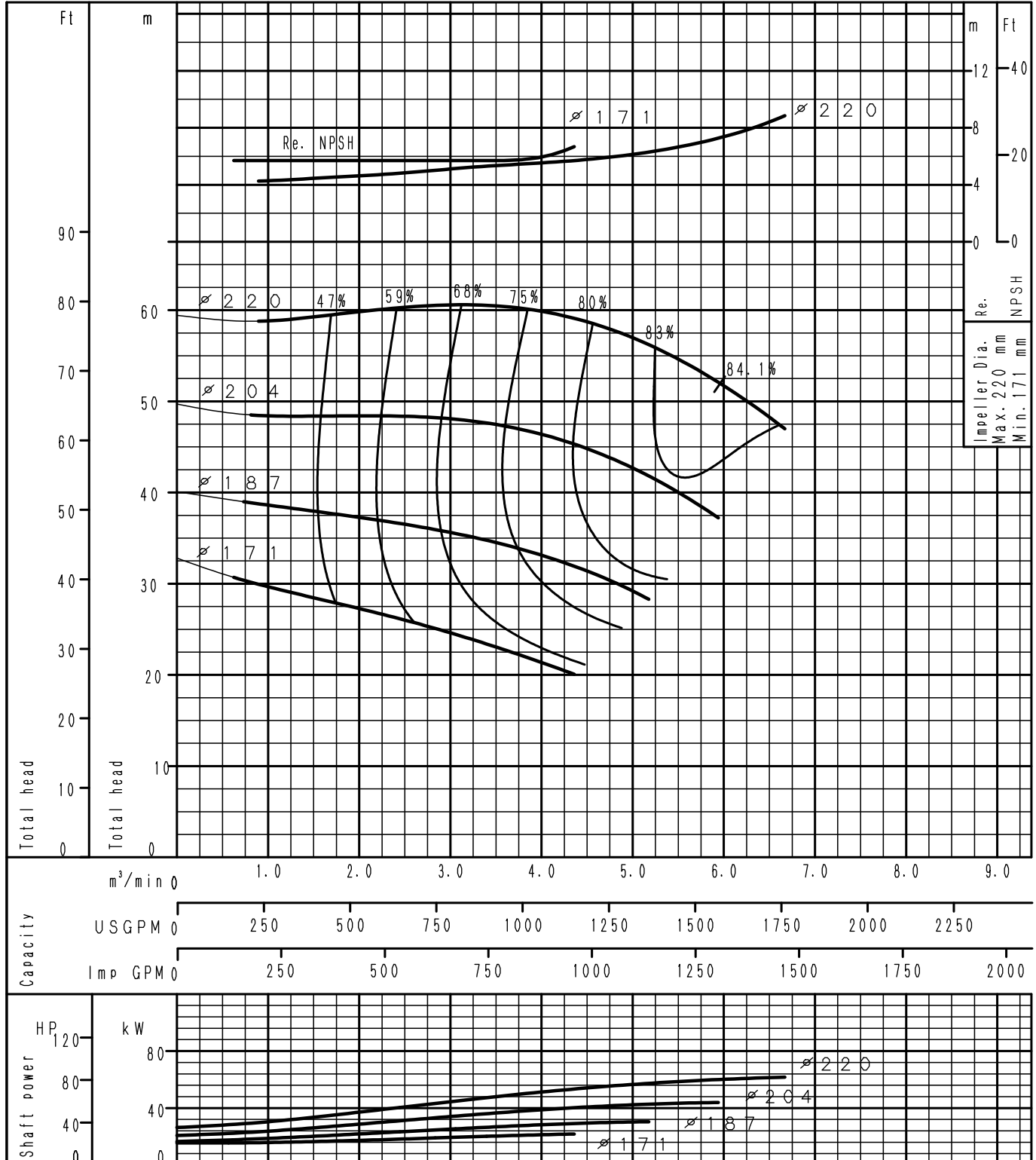
GSS100-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

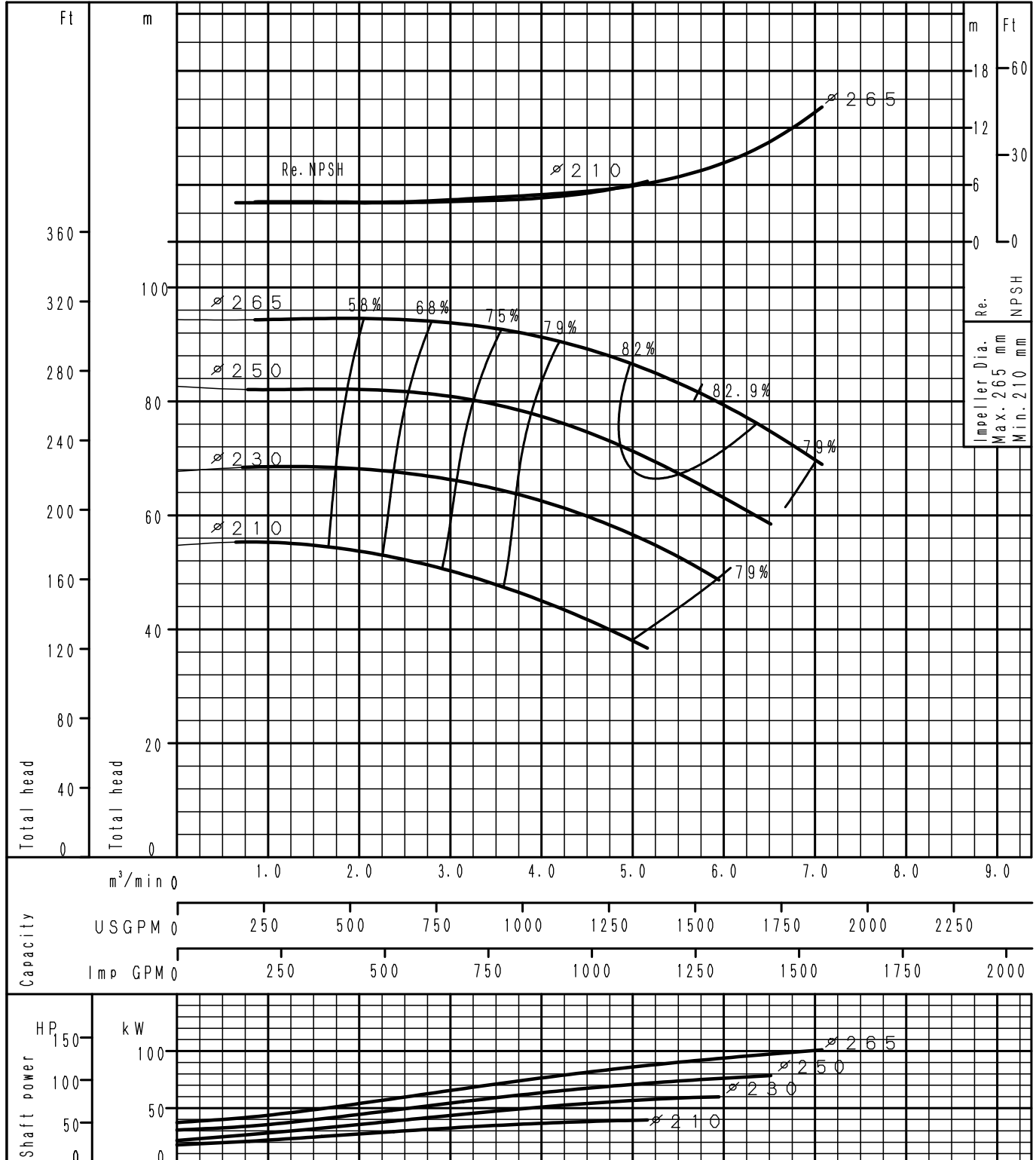
GSS100-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS100-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	
DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s	

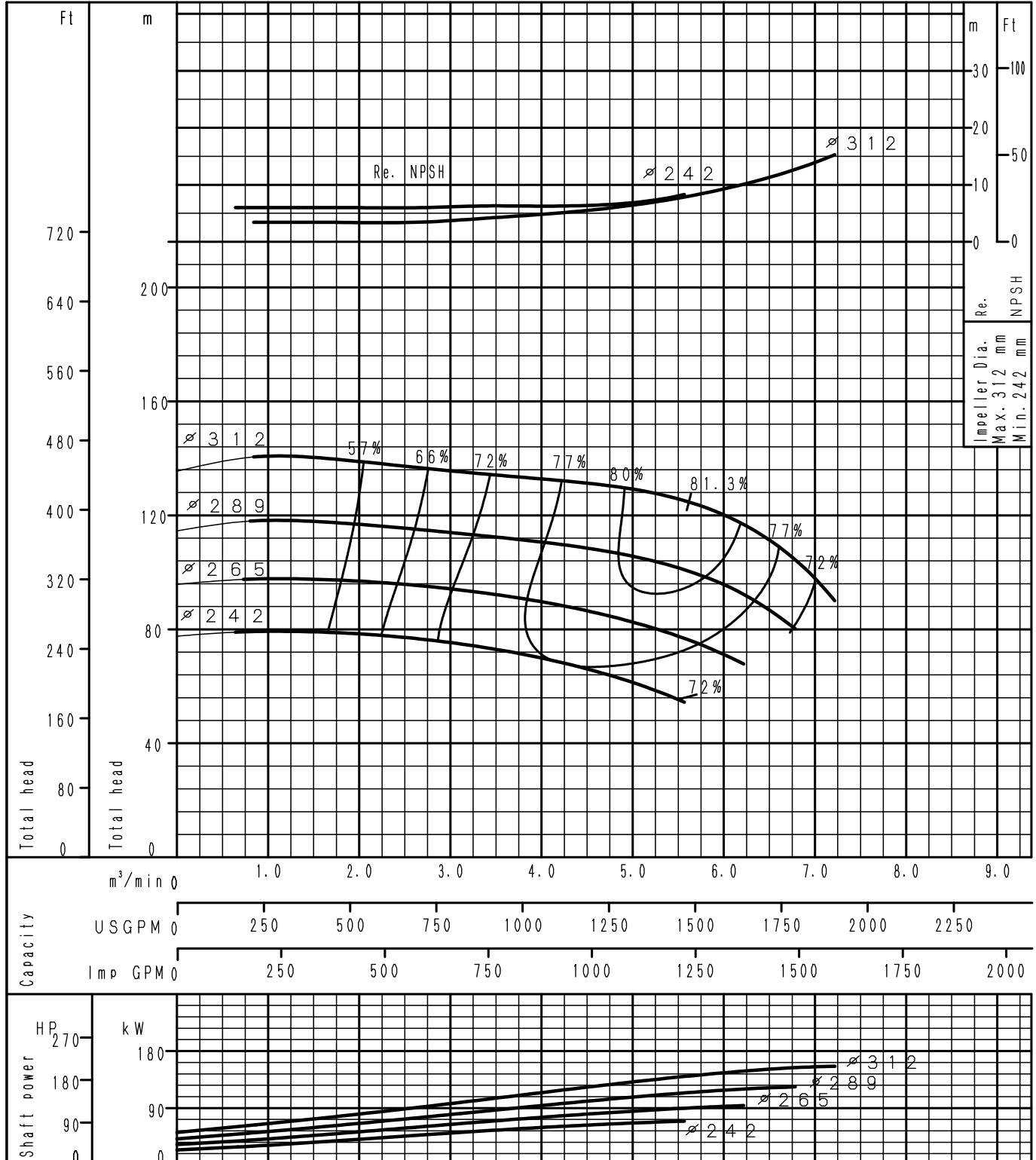




Performance Curve

2 Poles

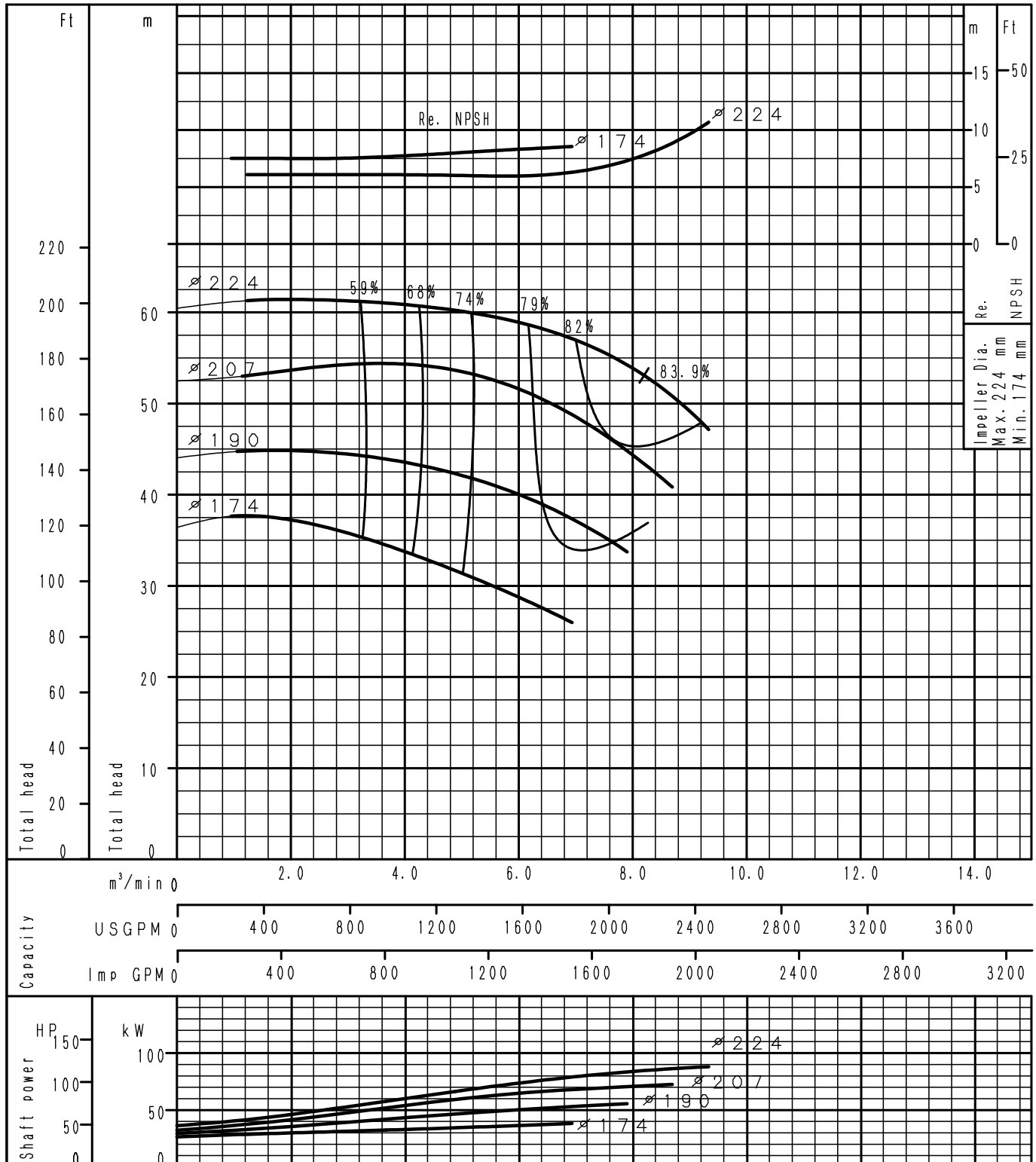
GSS100-315L	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

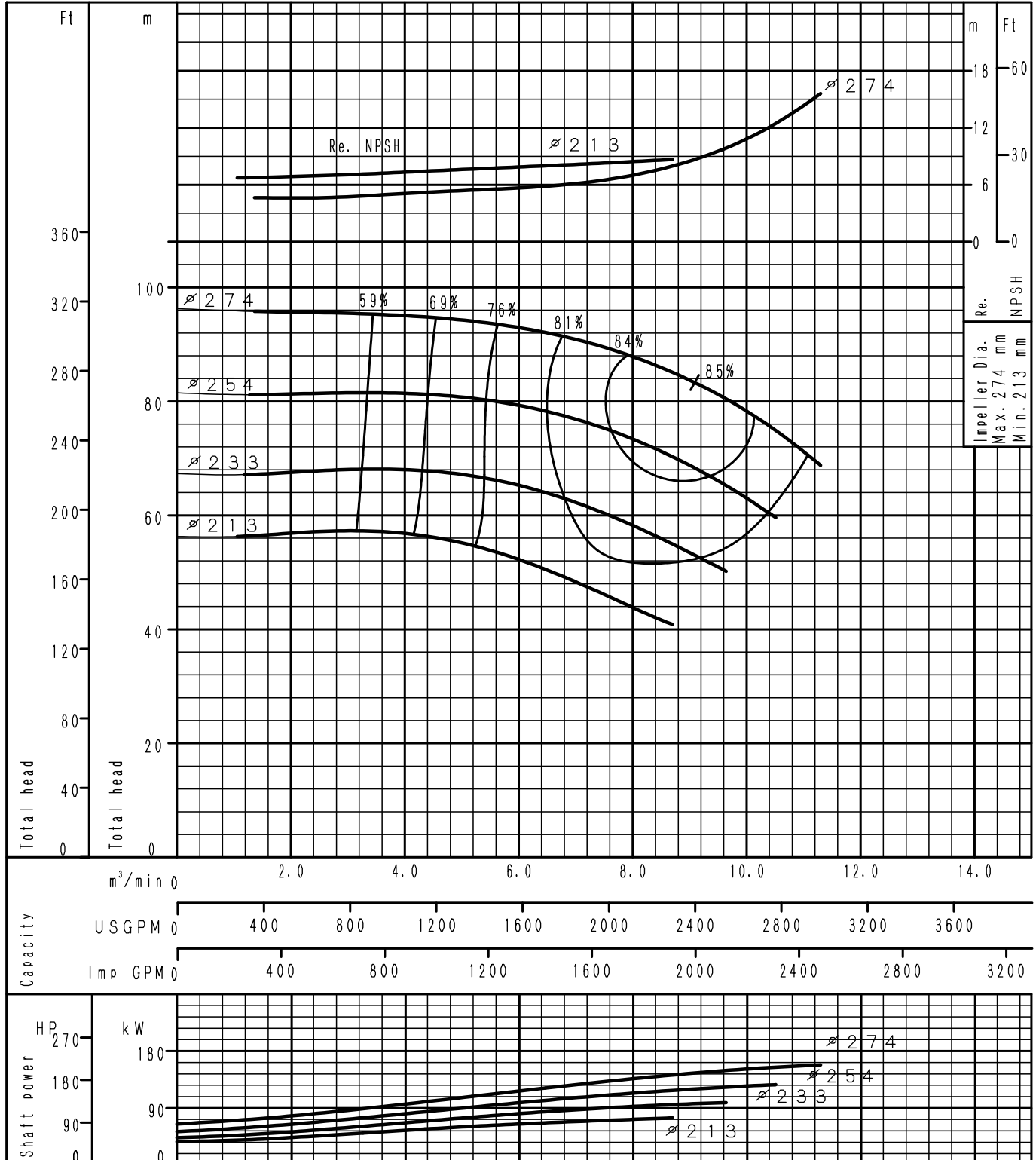
GSS125-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

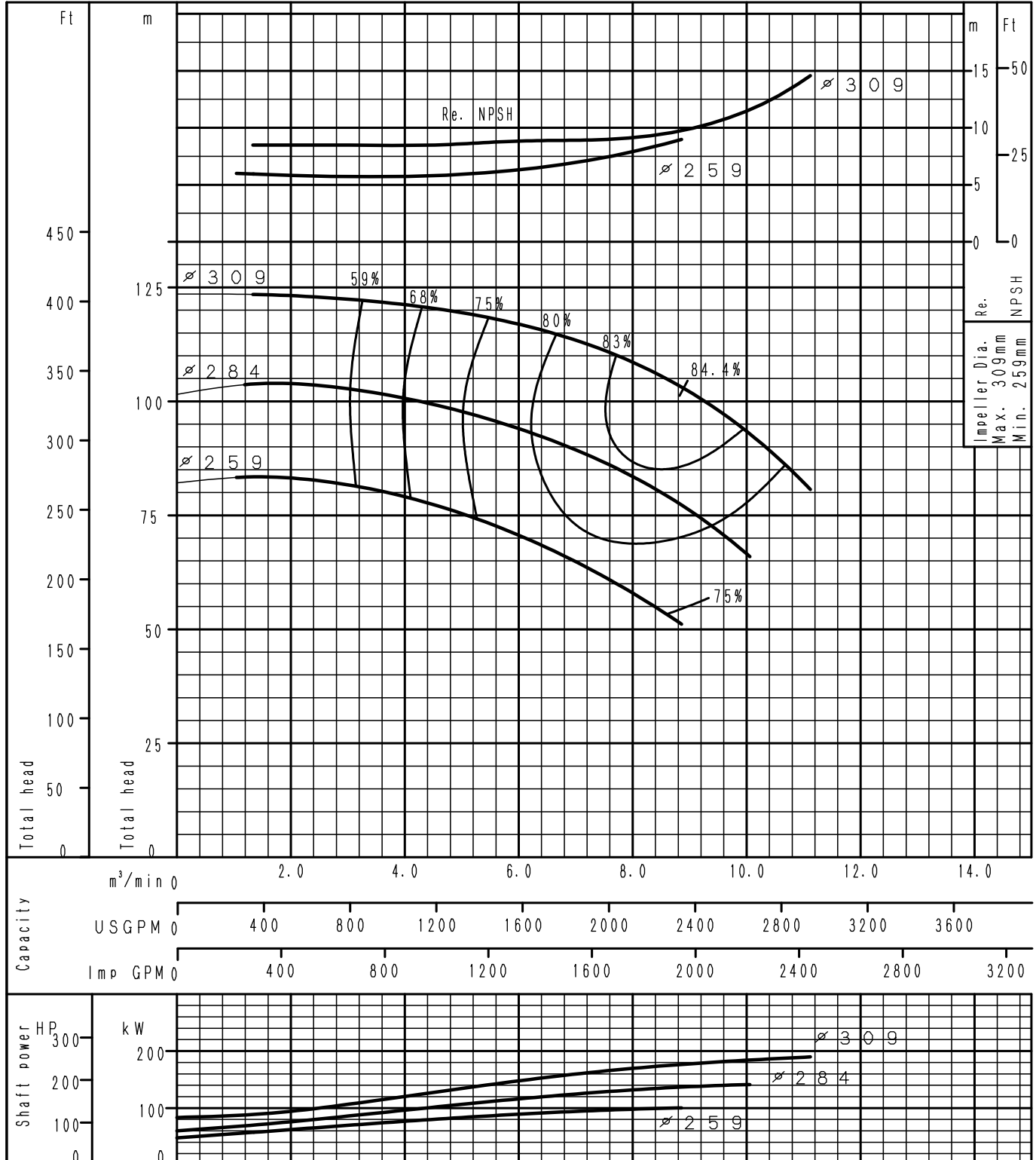
GSS125-250L	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

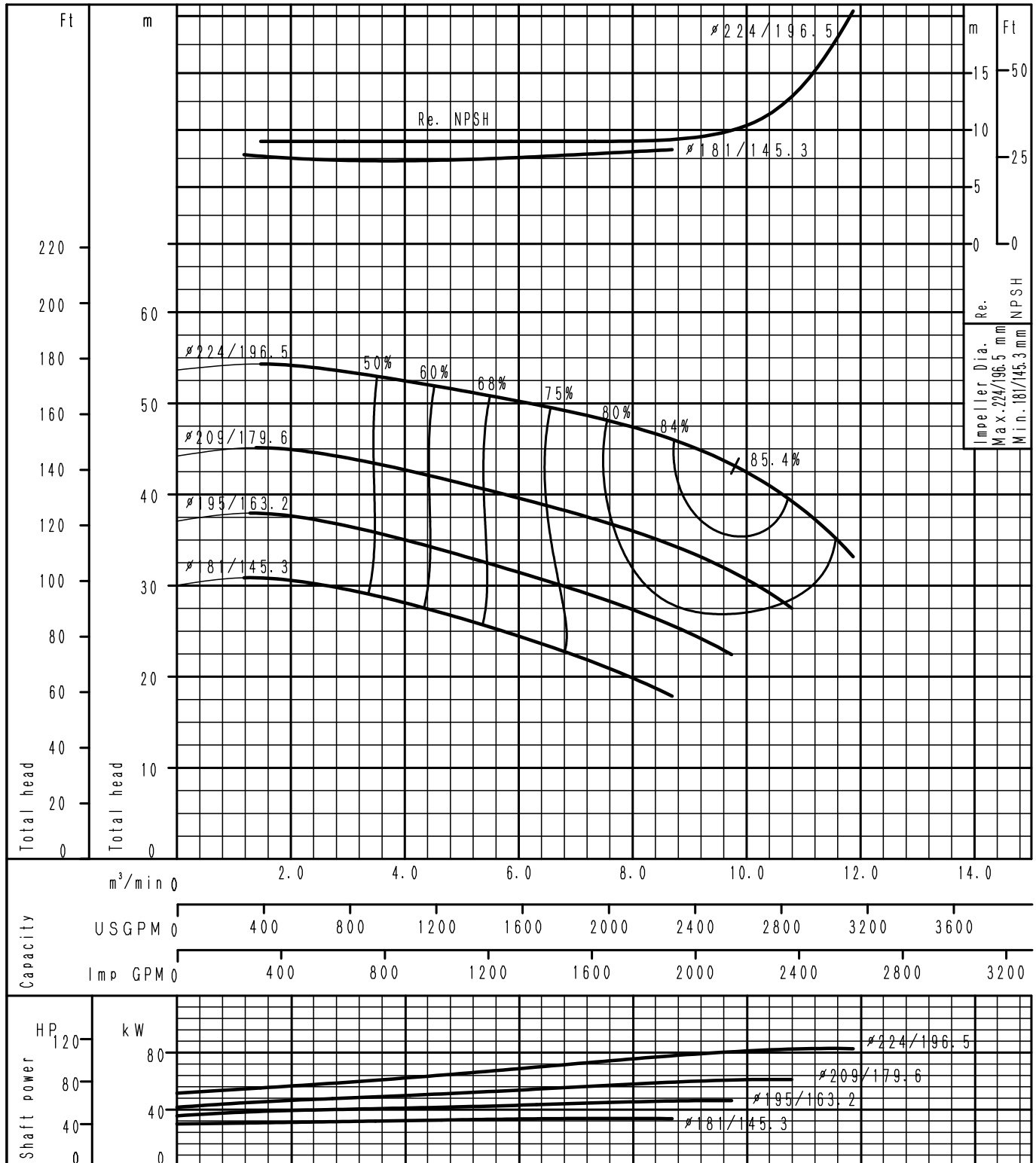
GSS125-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

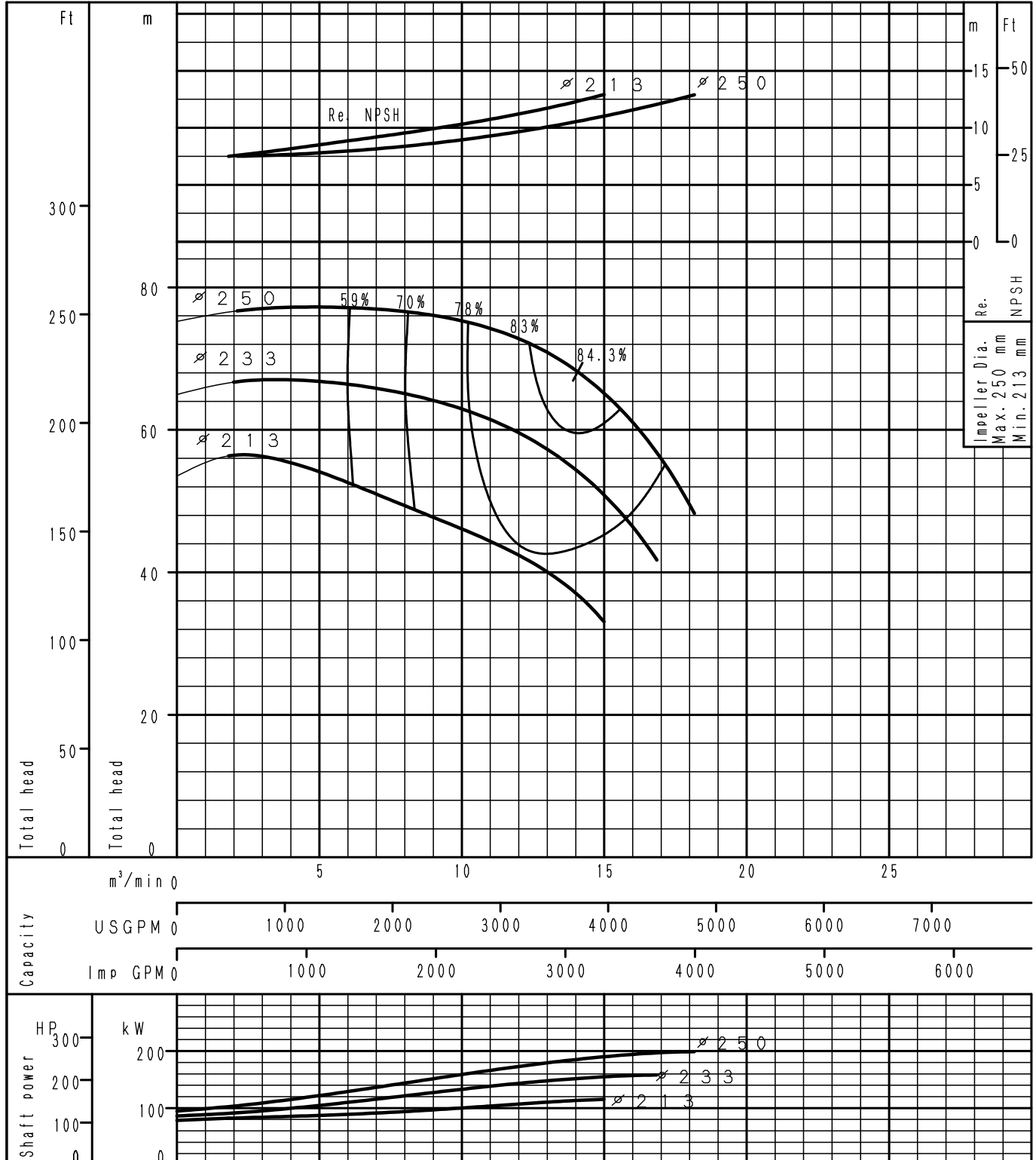
GSS150-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

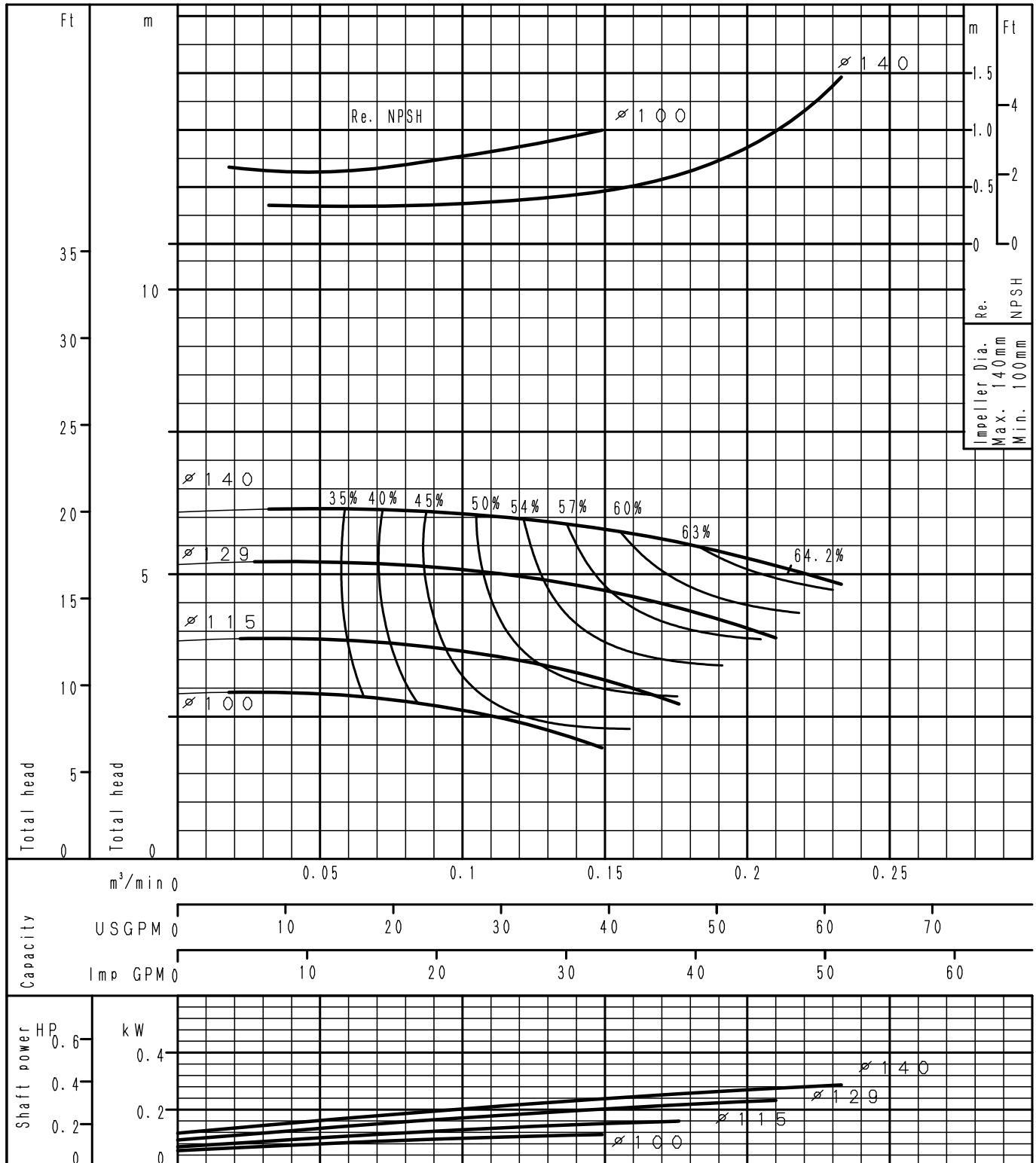
GSS150-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 2900 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

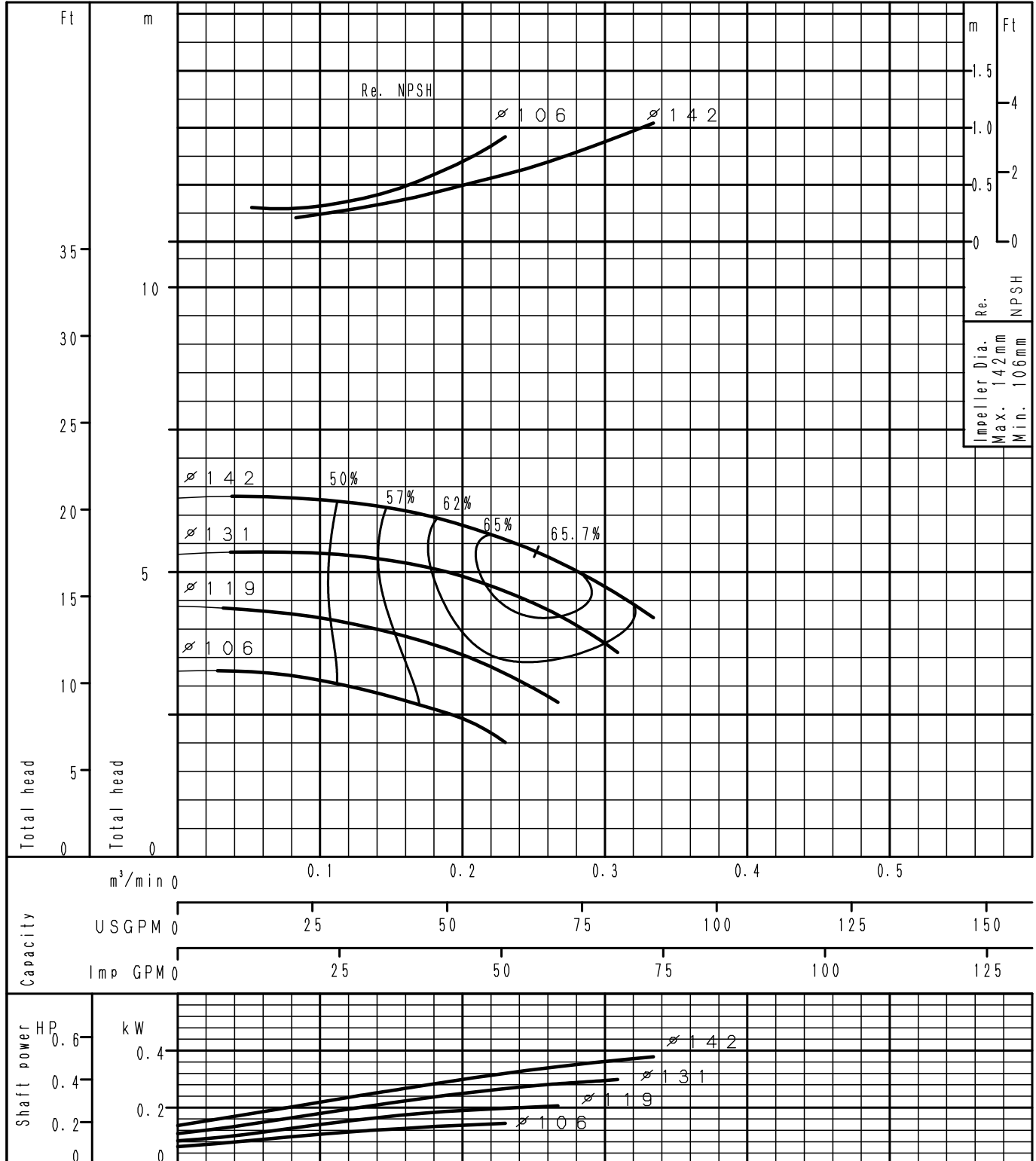
GSS32-125.1	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS32-125	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

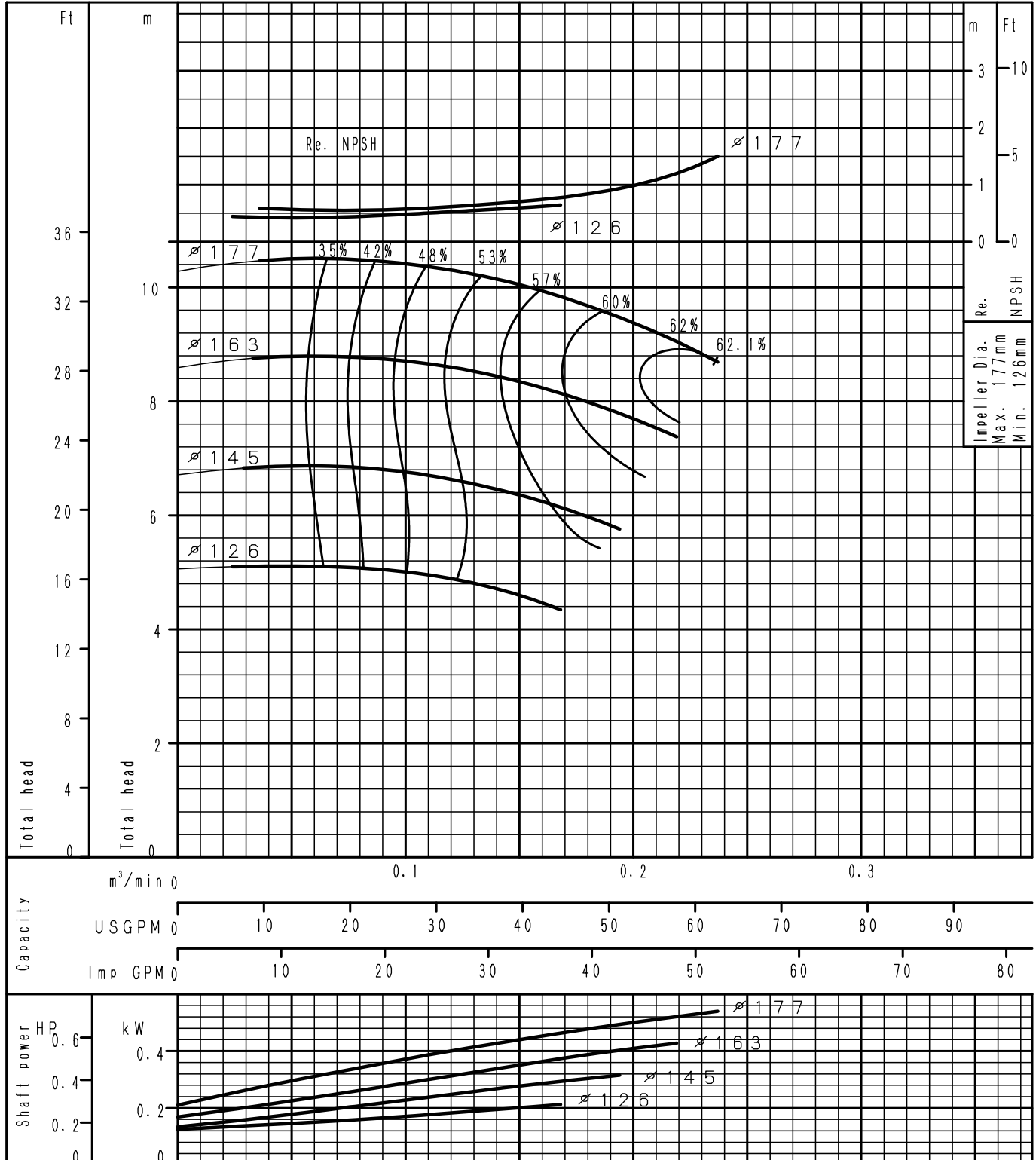




Performance Curve

4 Poles

<h1 style="margin: 0;">GSS32-160.1</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



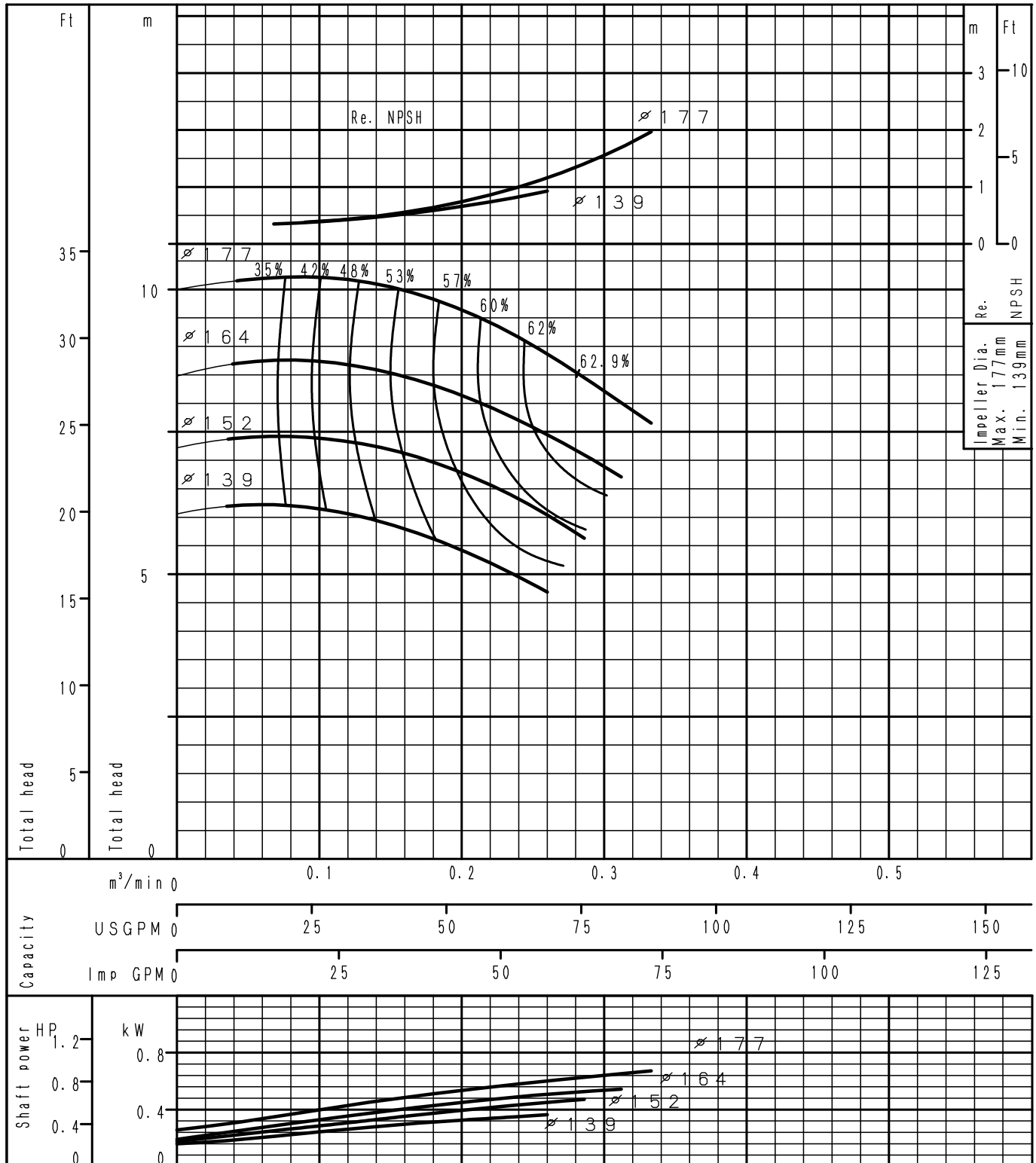
F8-1630823-01



Performance Curve

4 Poles

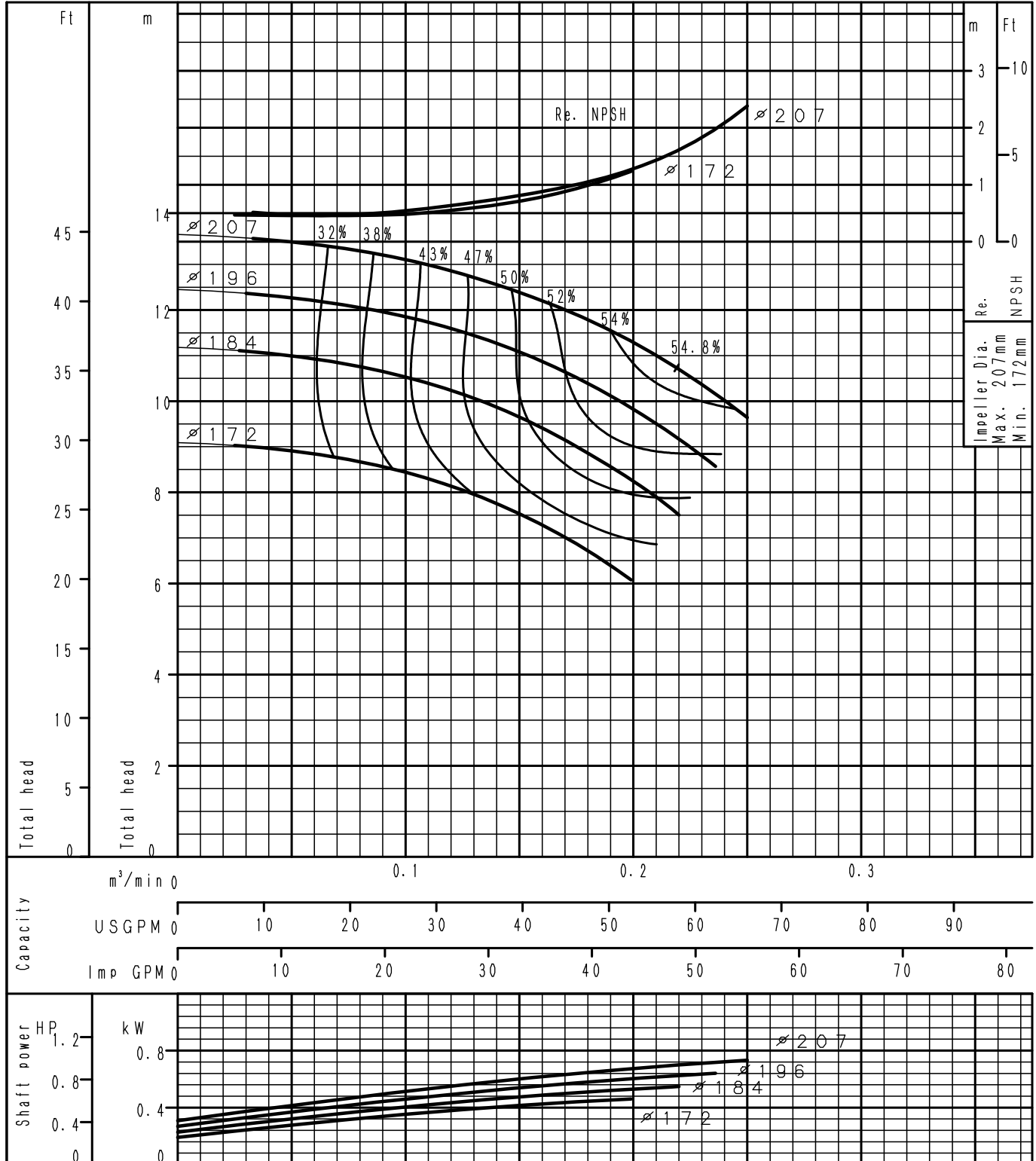
GSS32-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

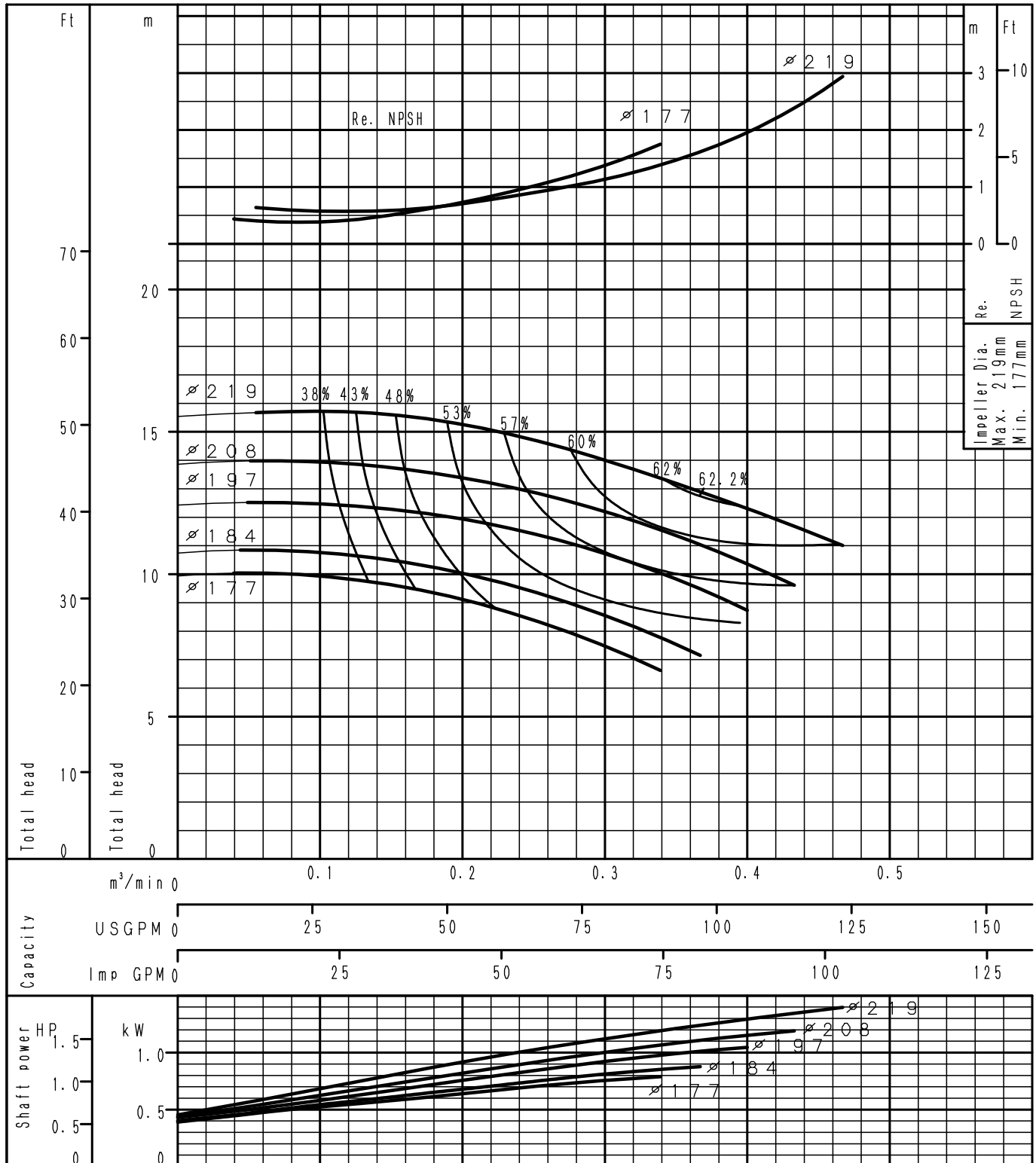
GSS32-200.1	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

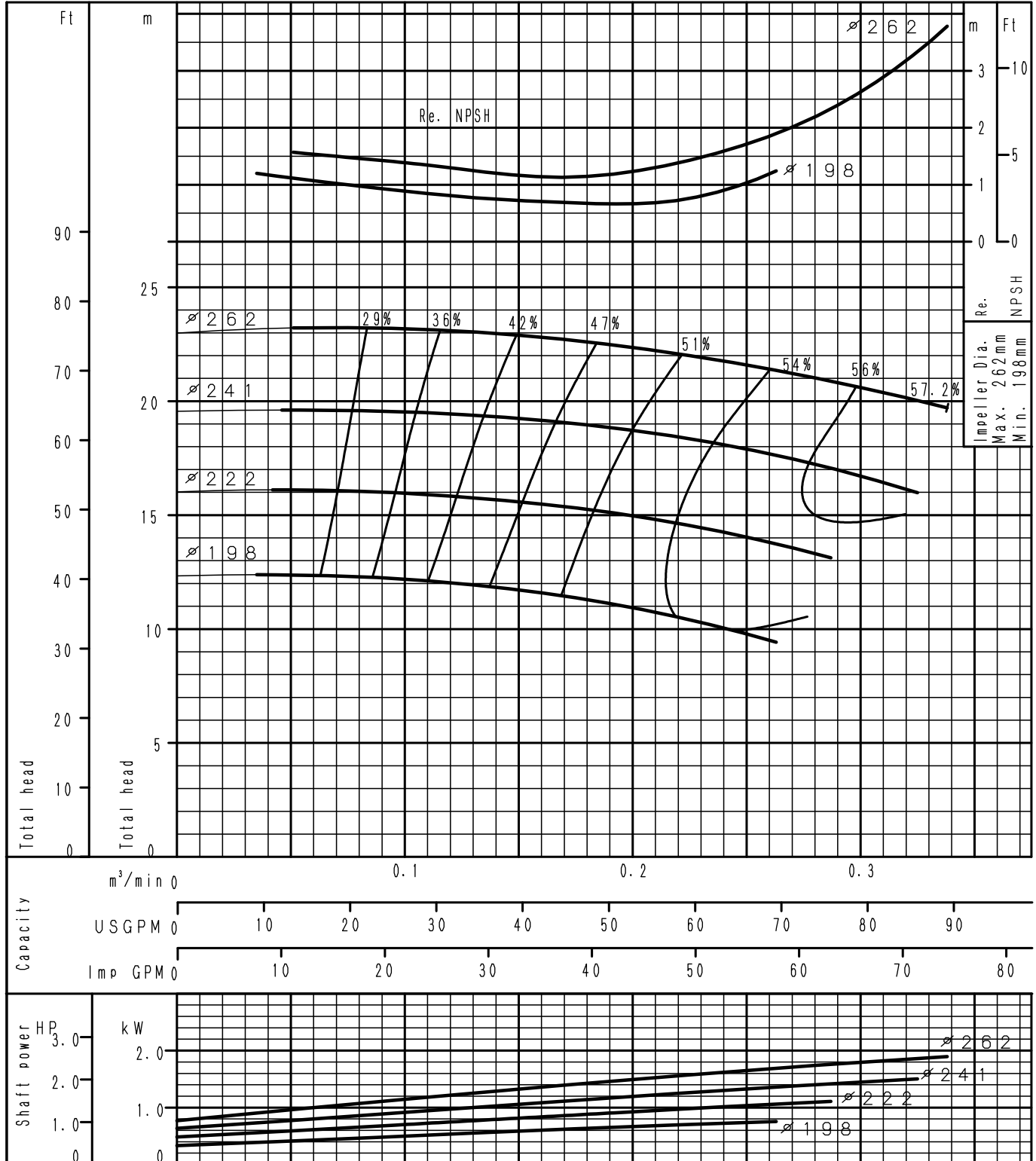
GSS32-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS32-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

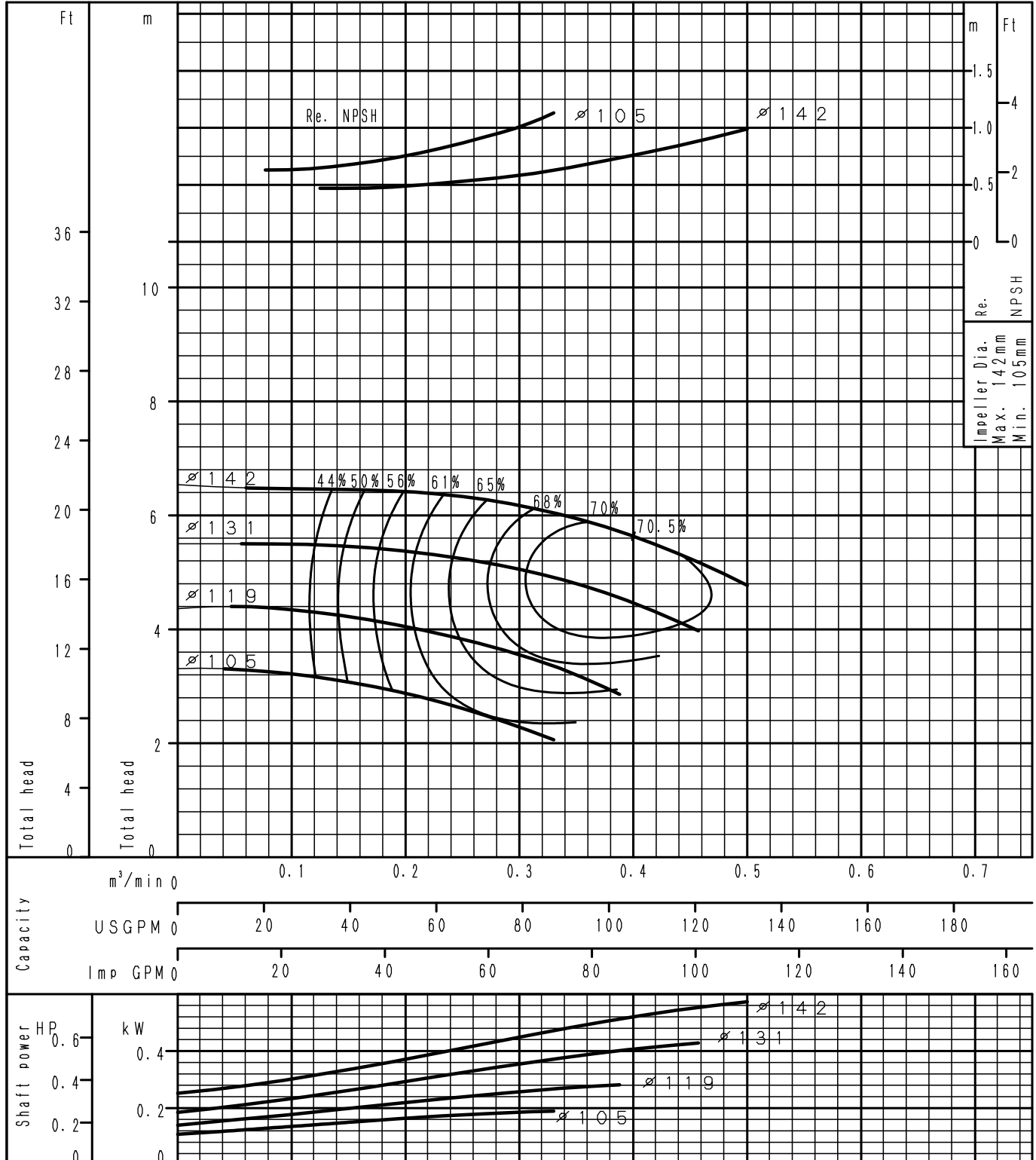


F8-1630827-01

Performance Curve

4 Poles

<h1 style="margin: 0;">GSS40-125</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s

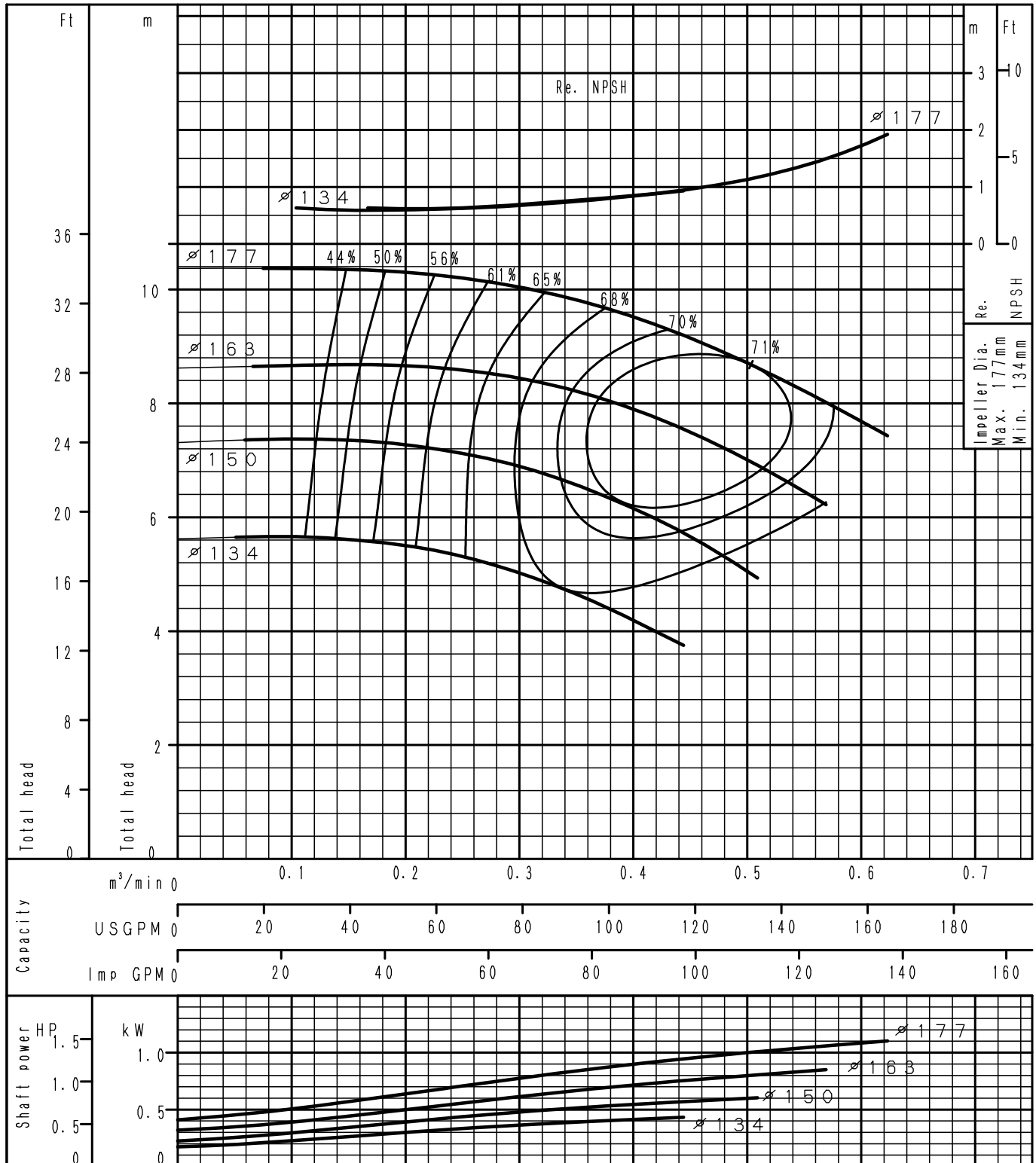


F8-1630828-01

Performance Curve

4 Poles

<h1 style="margin: 0;">GSS40-160</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

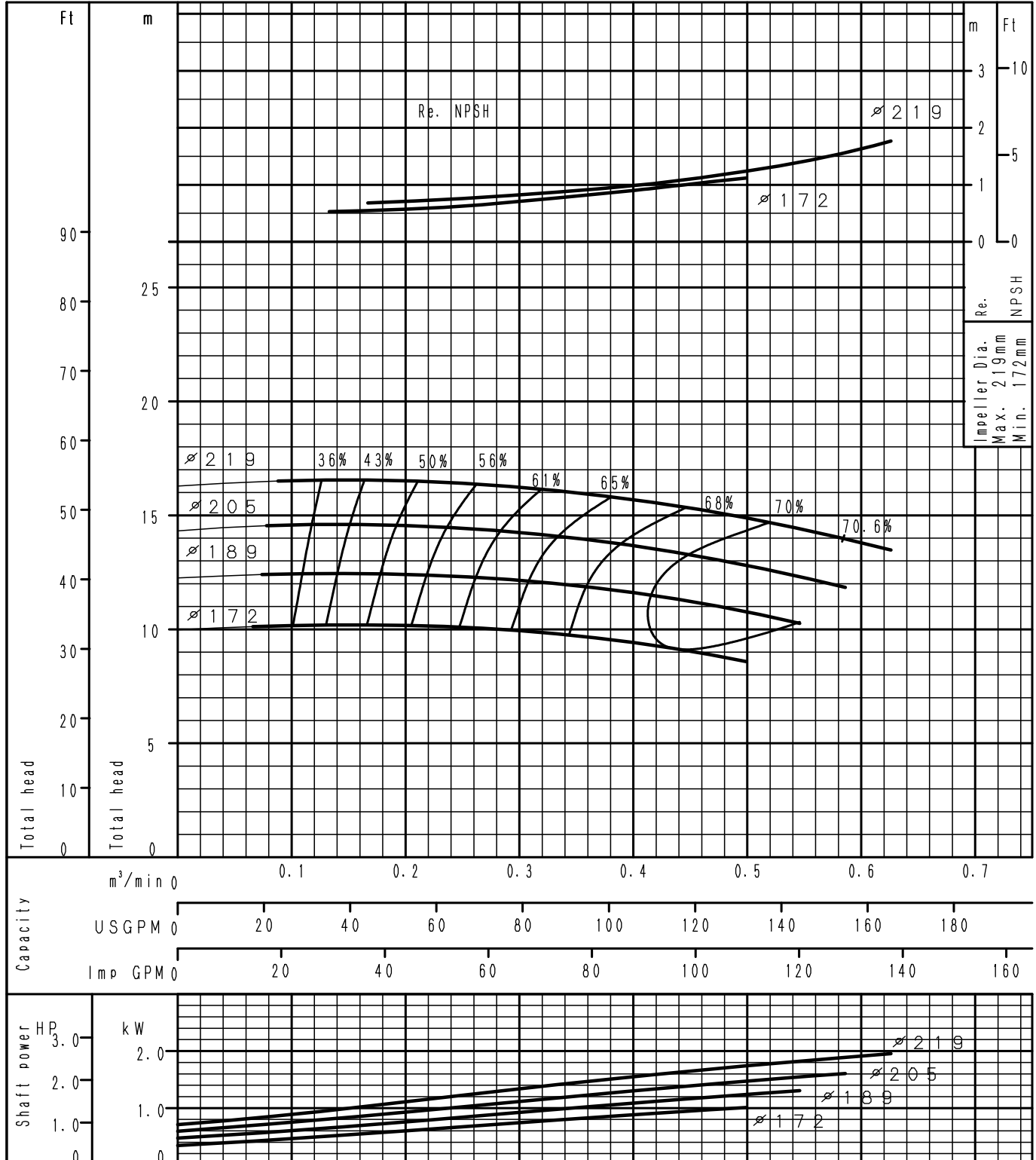


F8-1630829-01

Performance Curve

4 Poles

GSS40-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



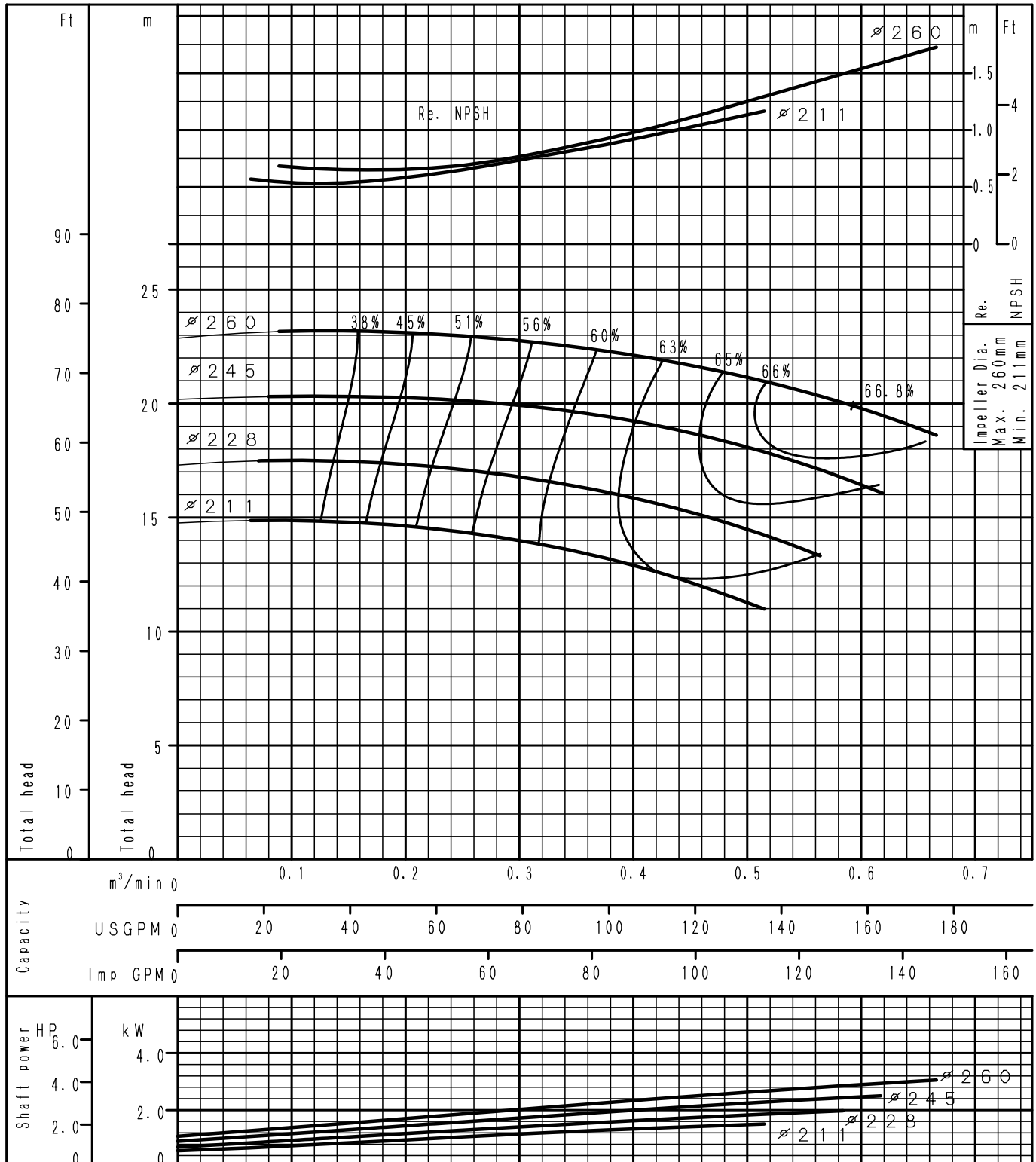
F8-1630830-01



Performance Curve

4 Poles

GSS40-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

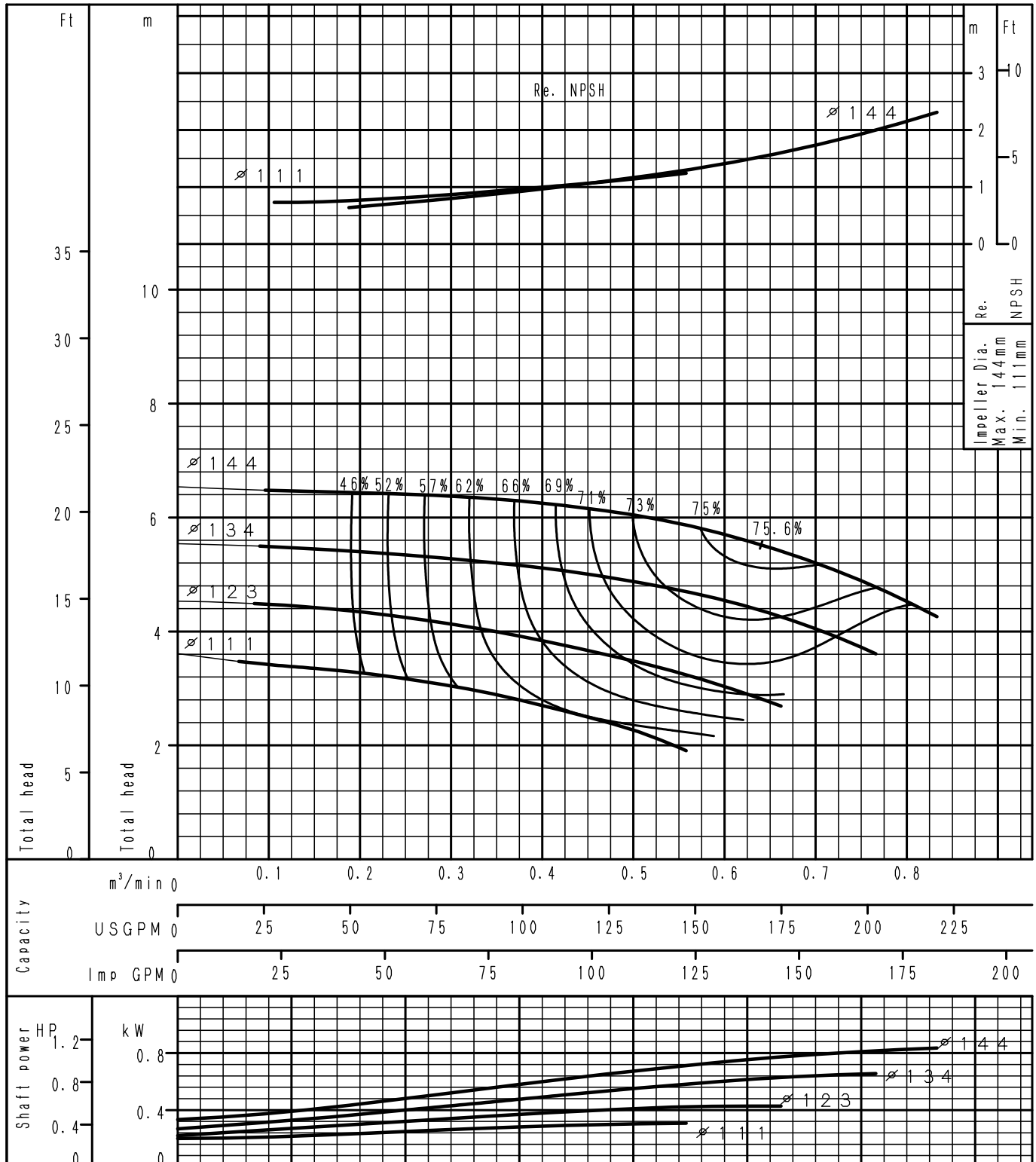


F8-1630831-01

Performance Curve

4 Poles

GSS50-125	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

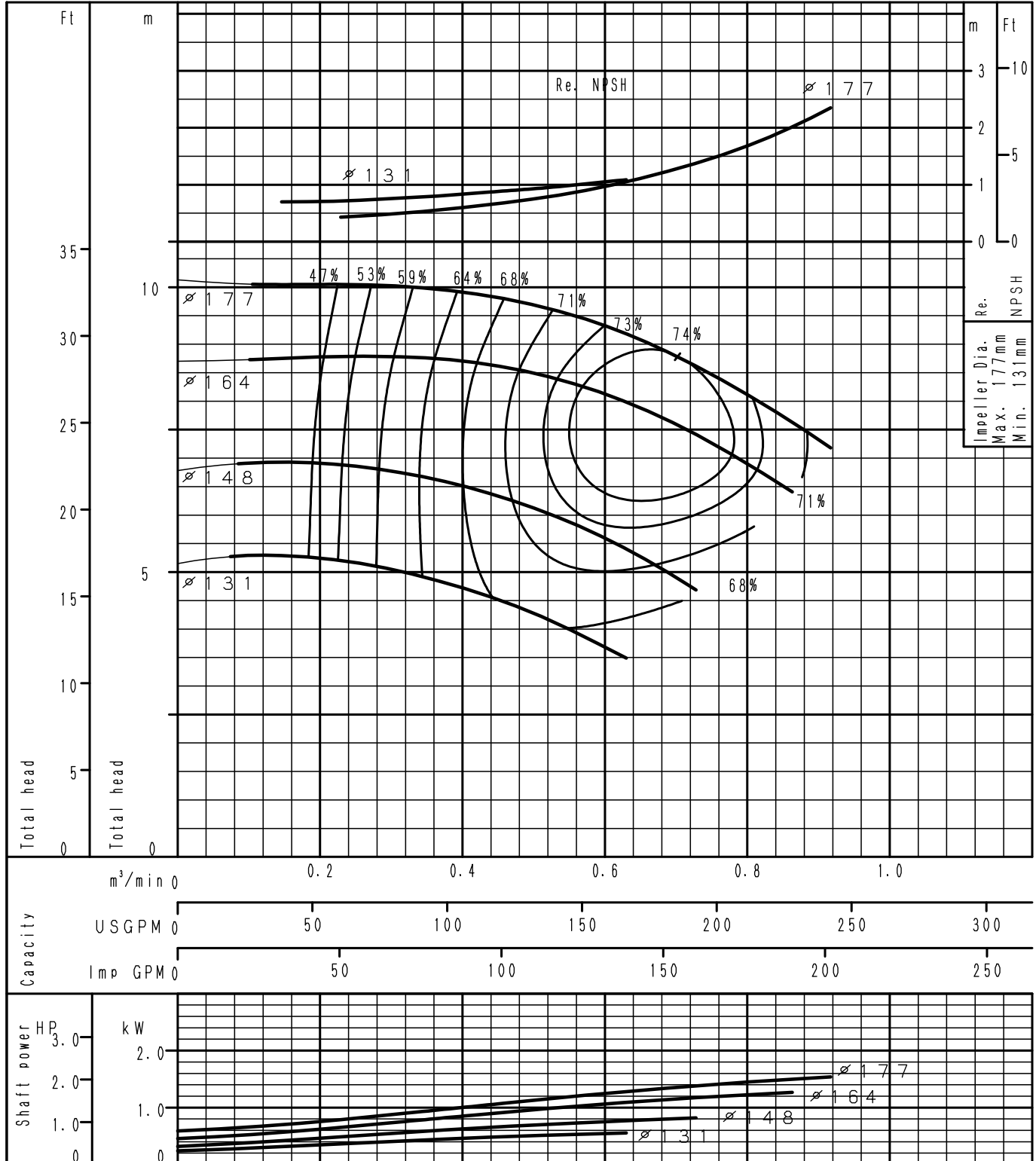


F8-1630832-01

Performance Curve

4 Poles

GSS50-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



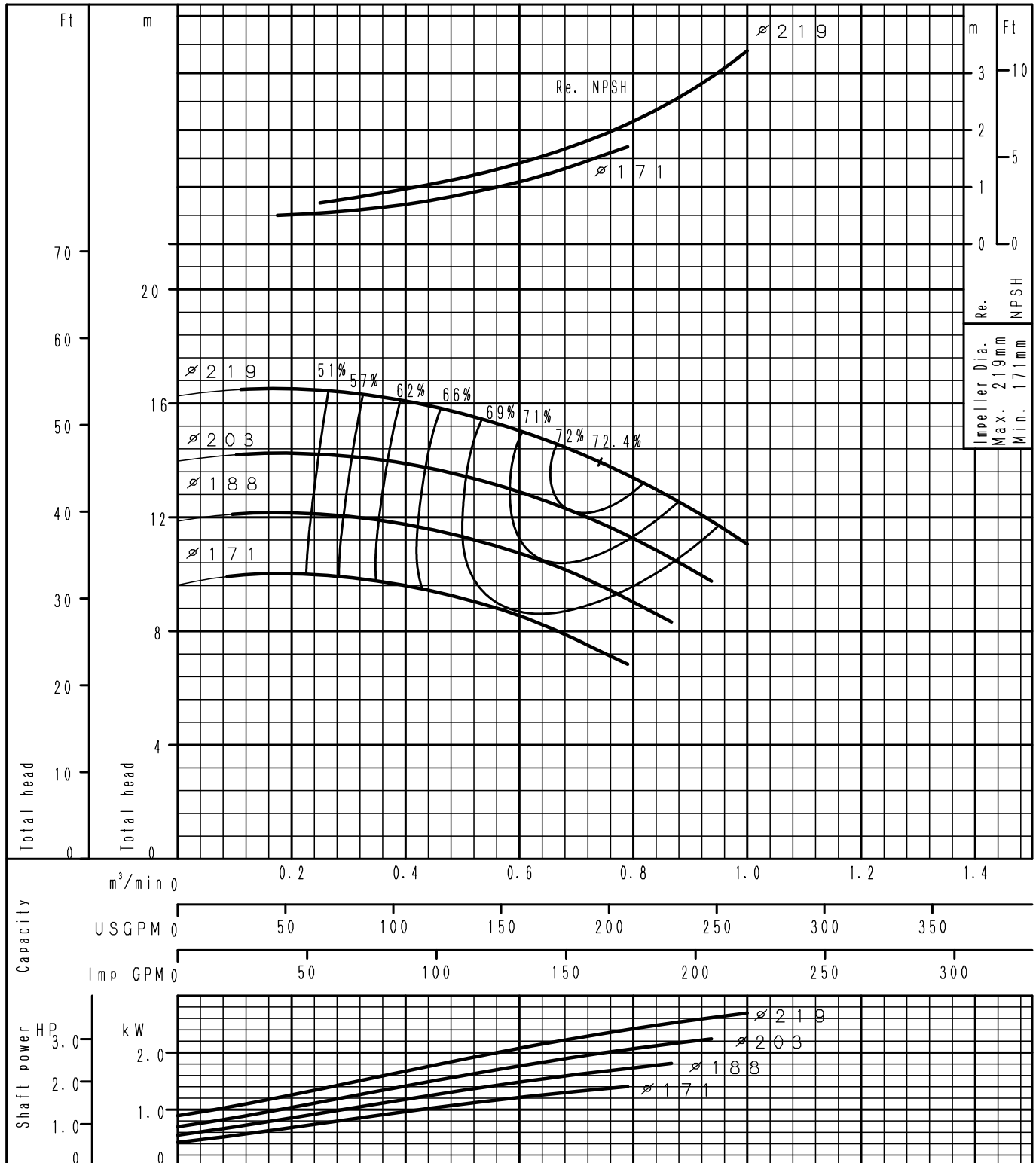
F8-1630833-01



Performance Curve

4 Poles

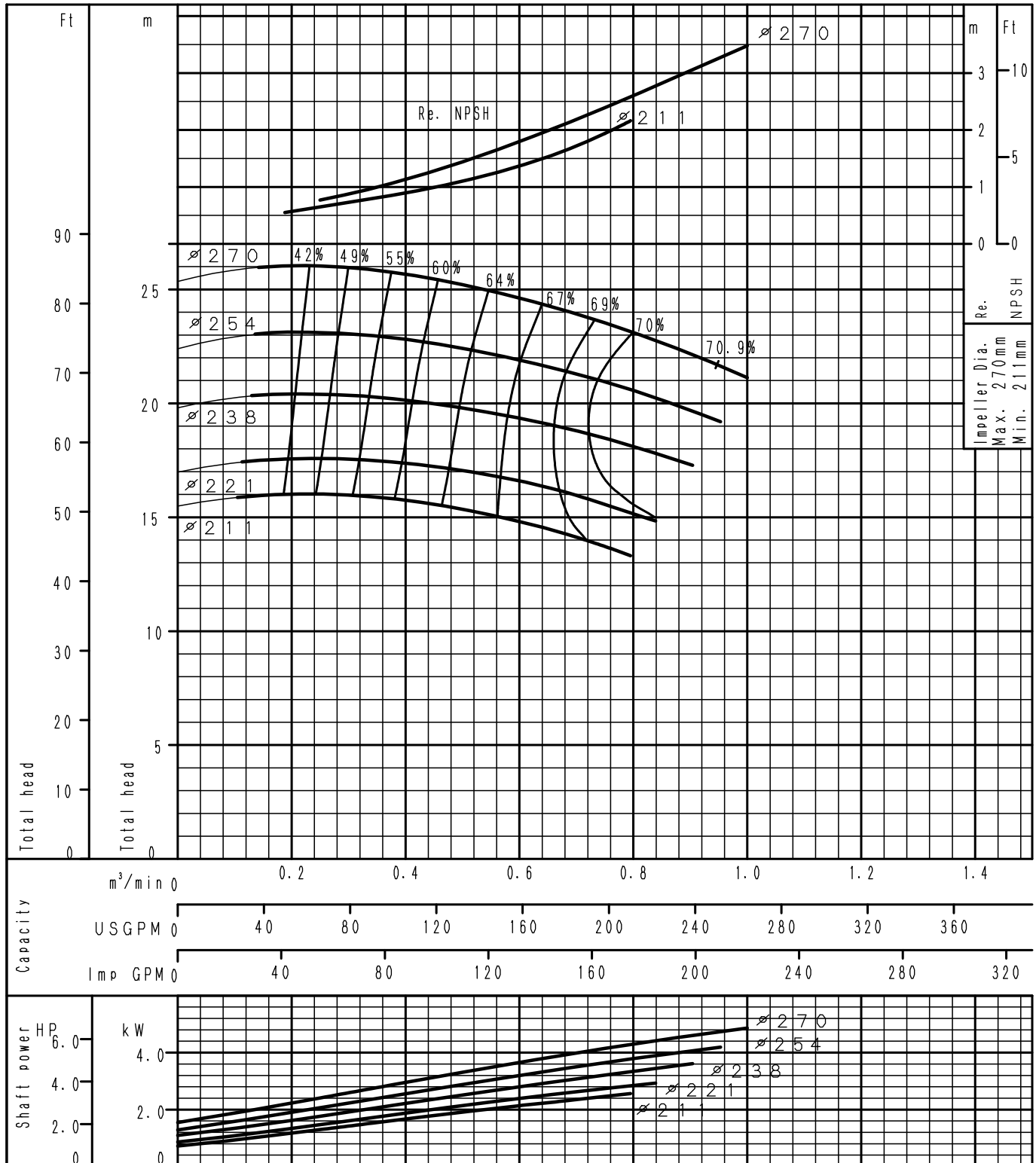
GSS50-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

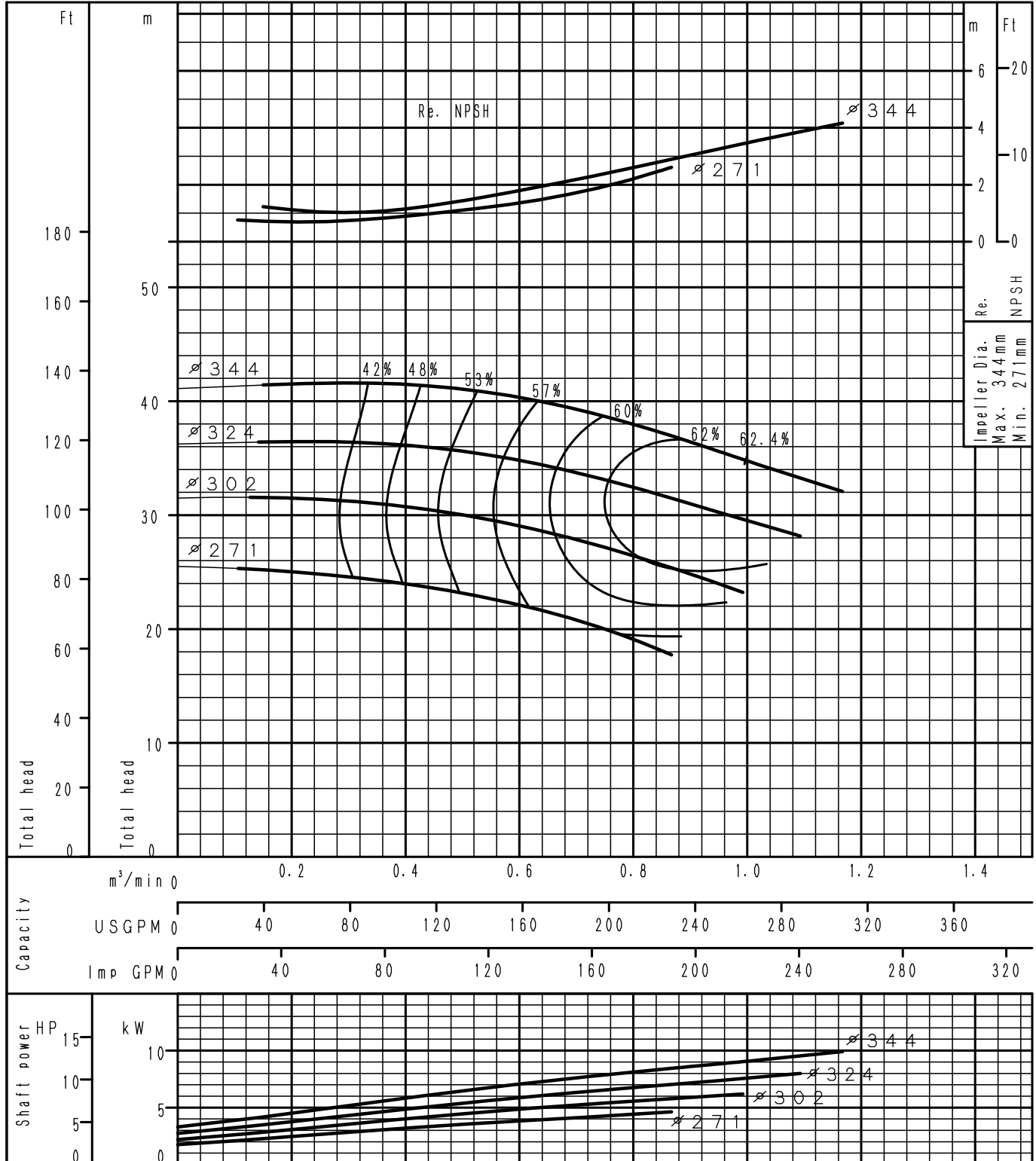
GSS50-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

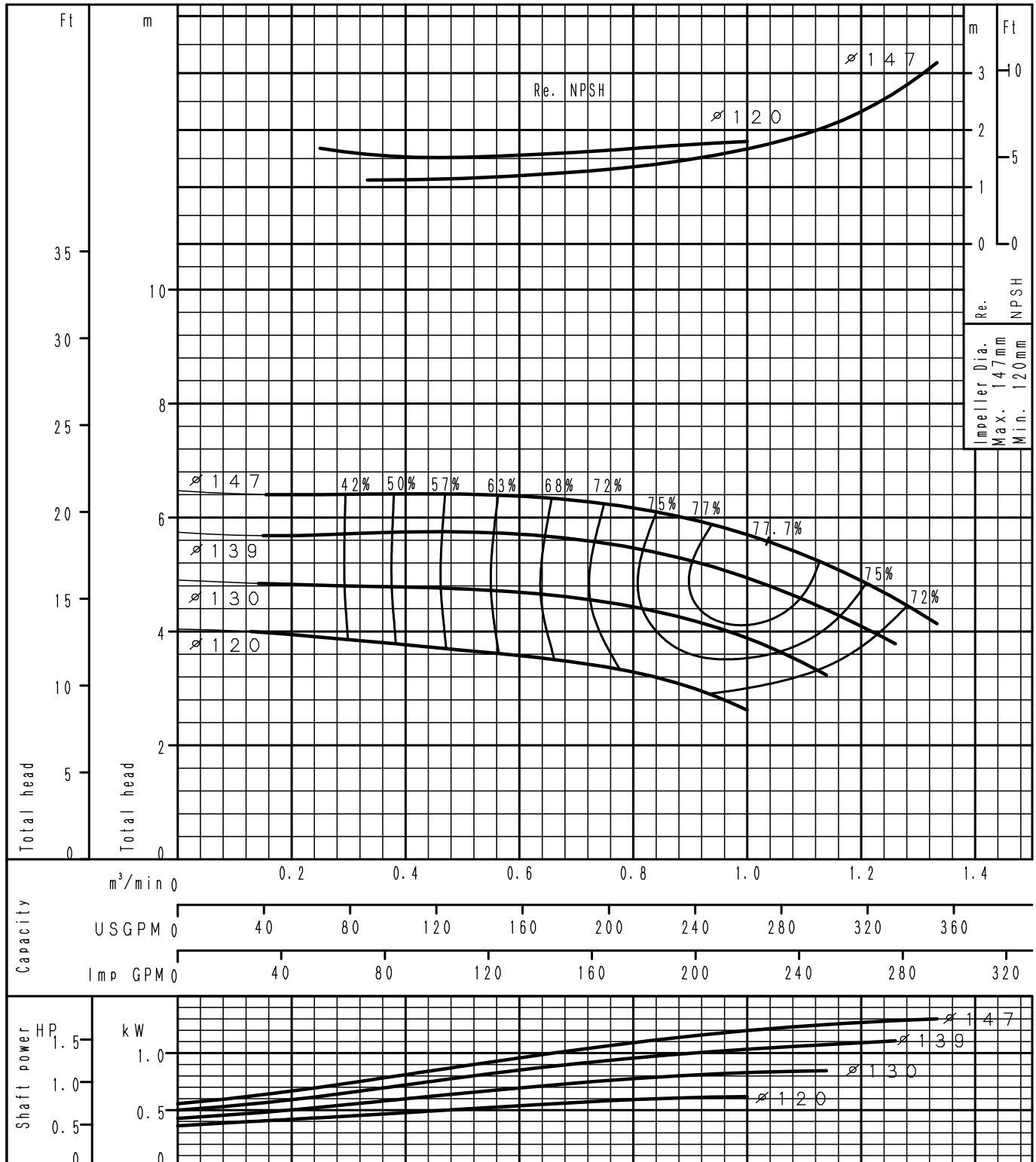
GSS50-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

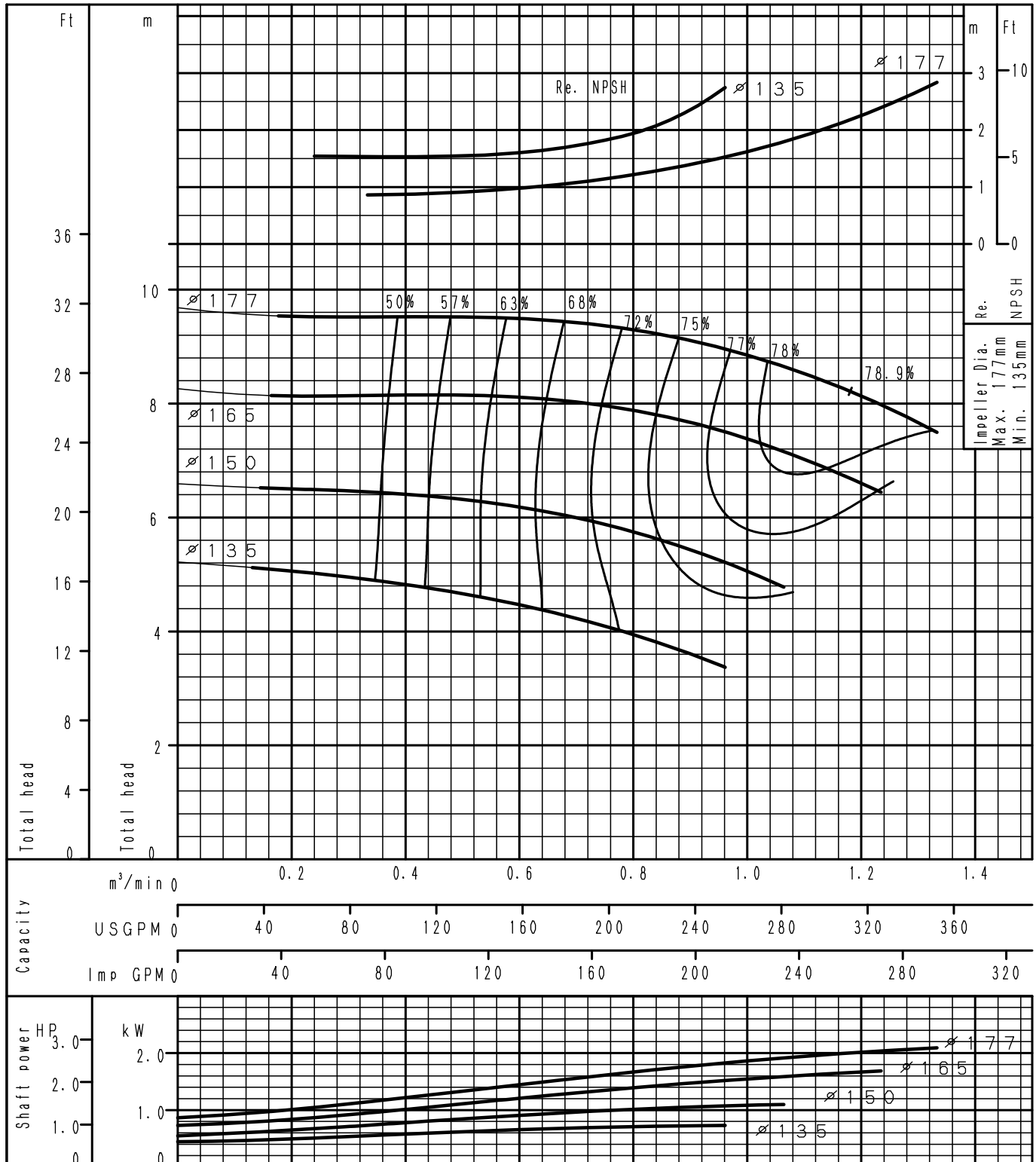
<h1 style="margin: 0;">GSS65-125</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS65-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



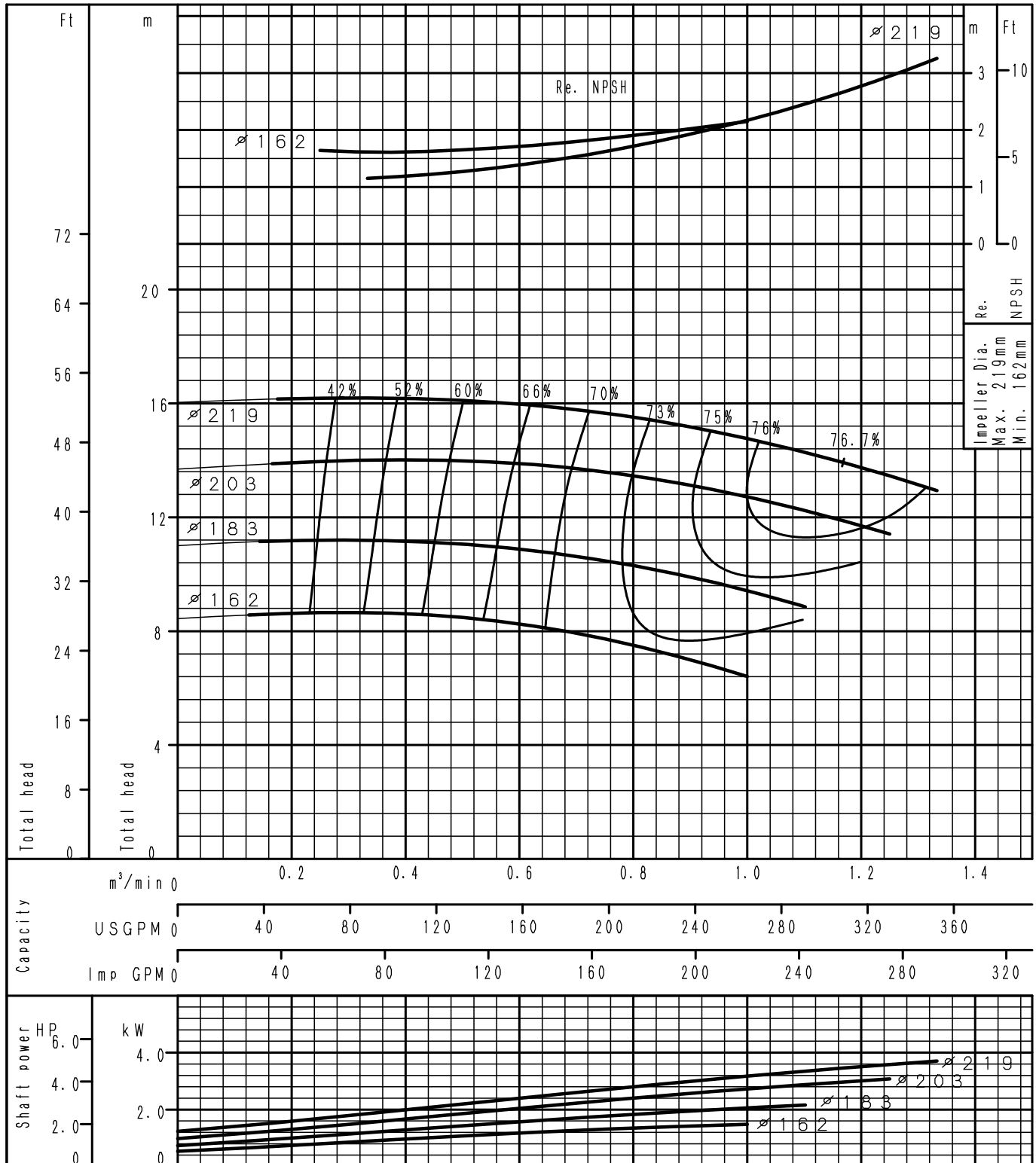
F8-1630838-01



Performance Curve

4 Poles

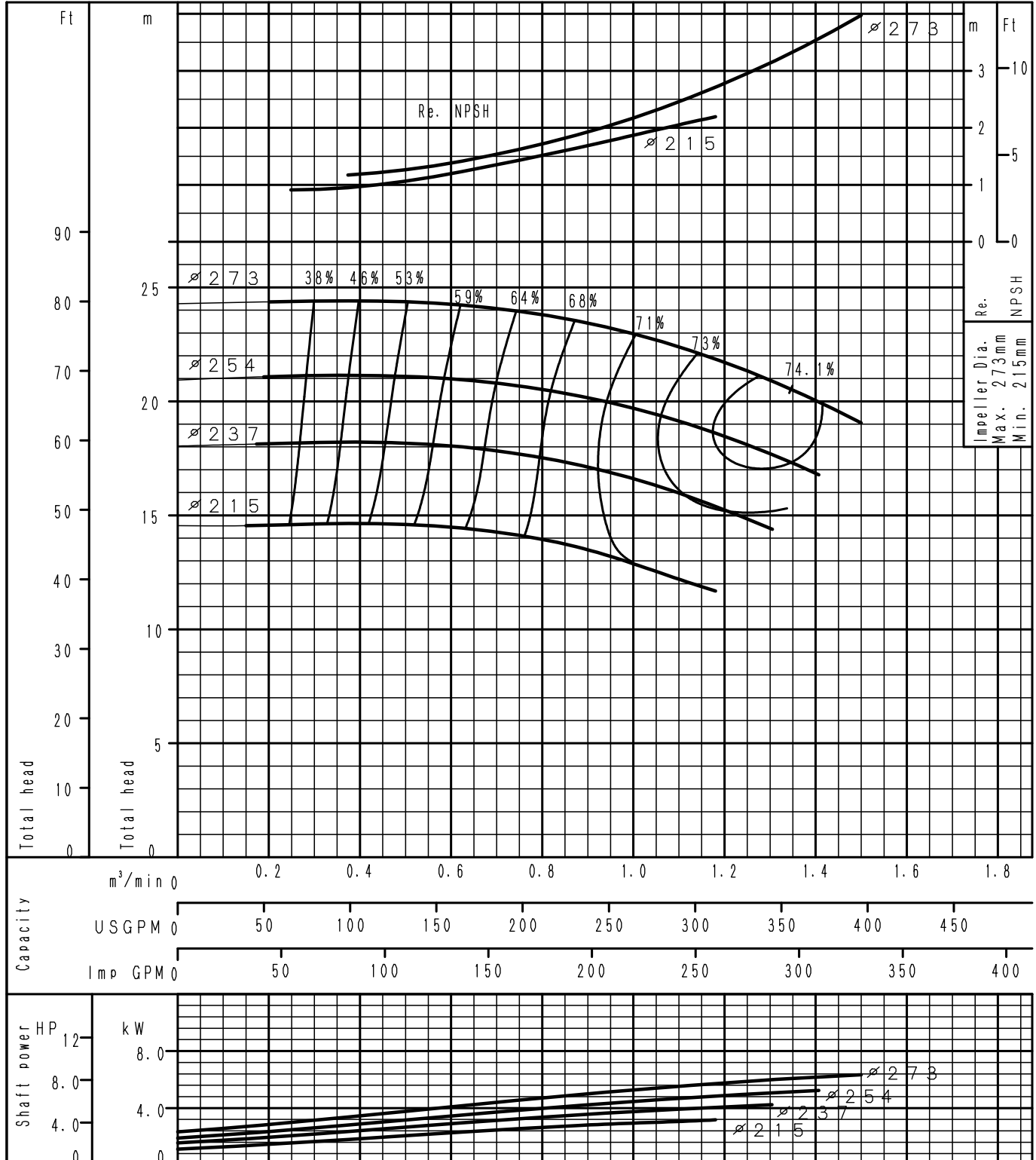
GSS65-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

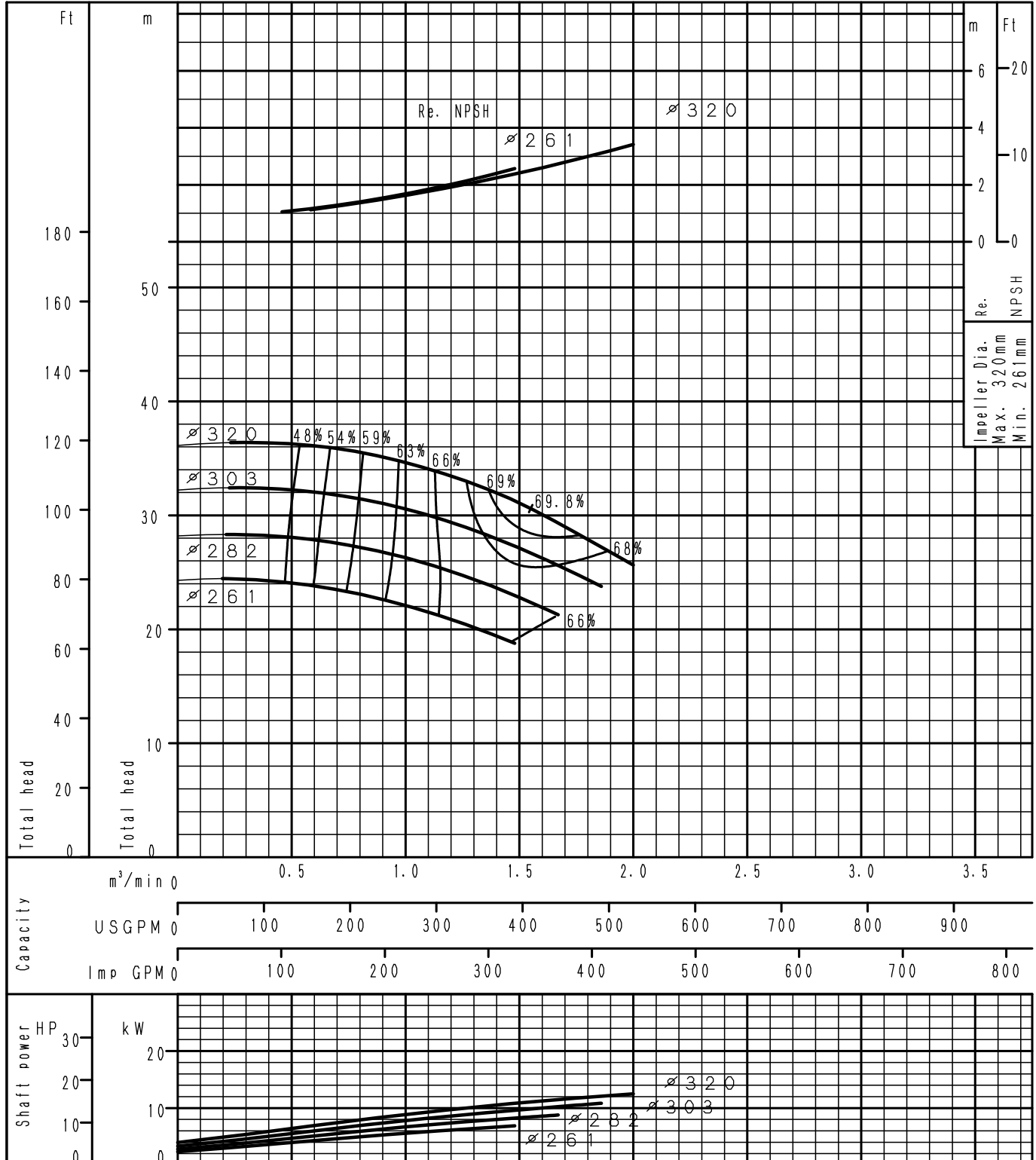
GSS65-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

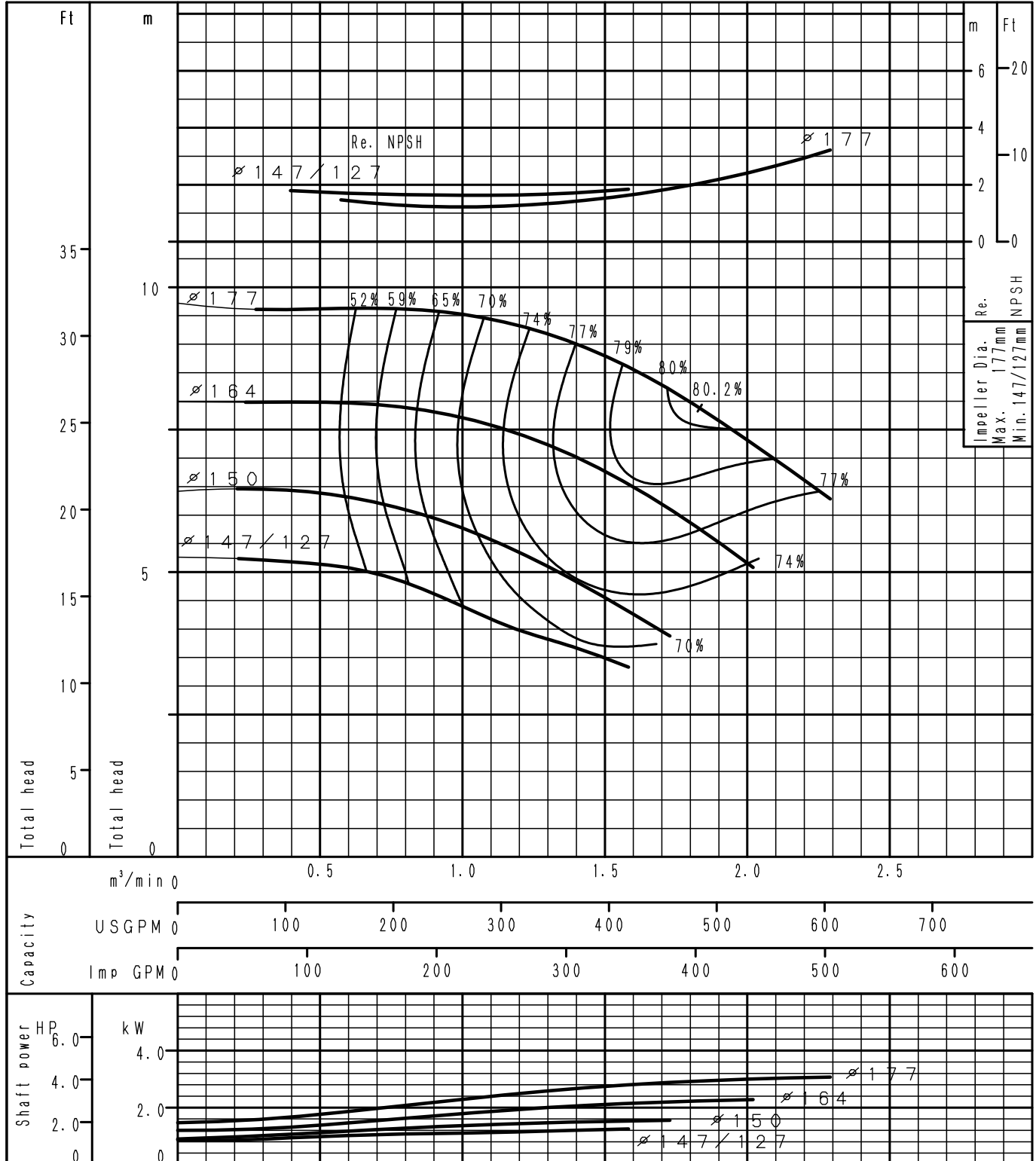
GSS65-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS80-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

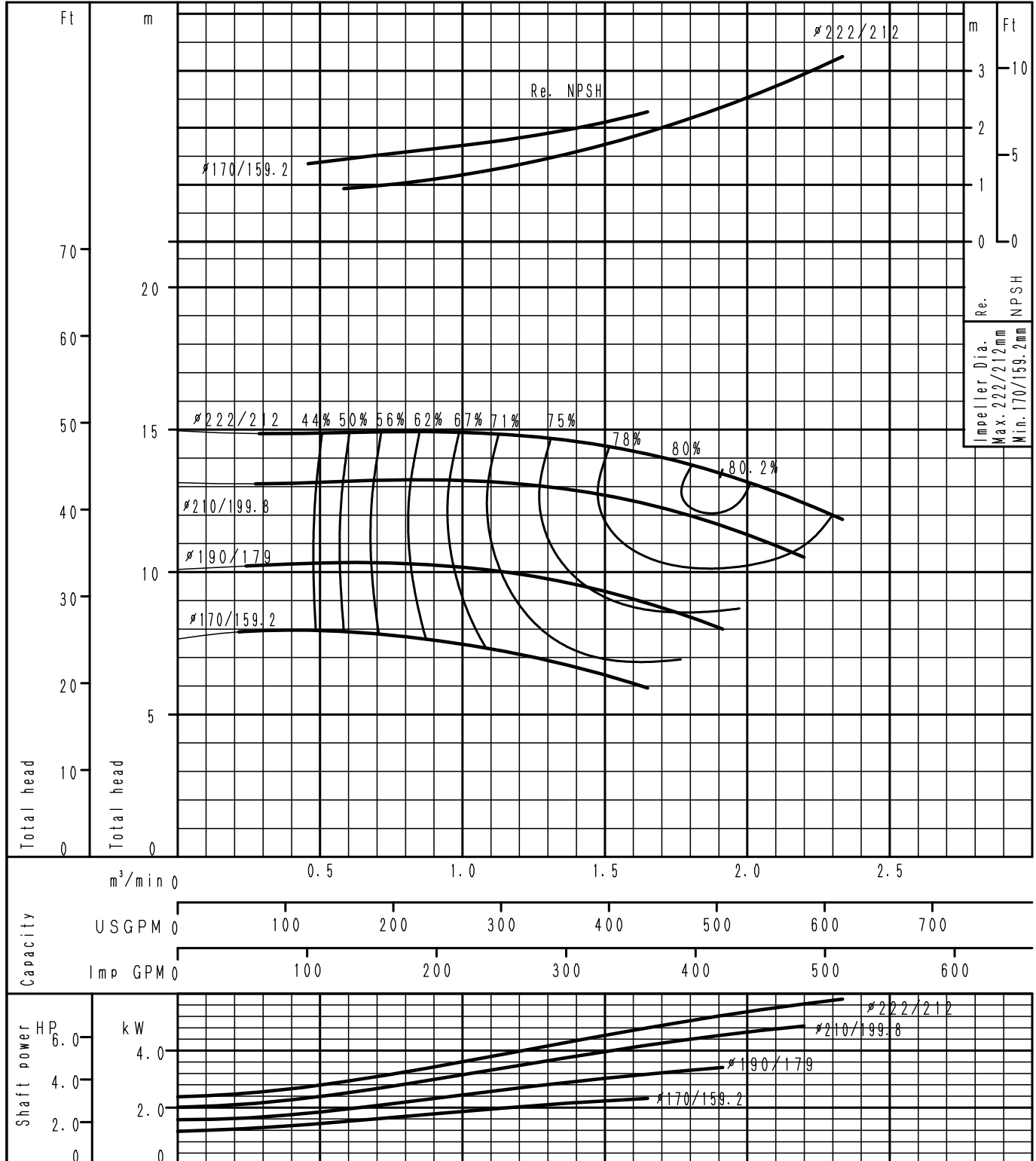


F8-1630842-01

Performance Curve

4 Poles

<h1 style="margin: 0;">GSS80-200</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



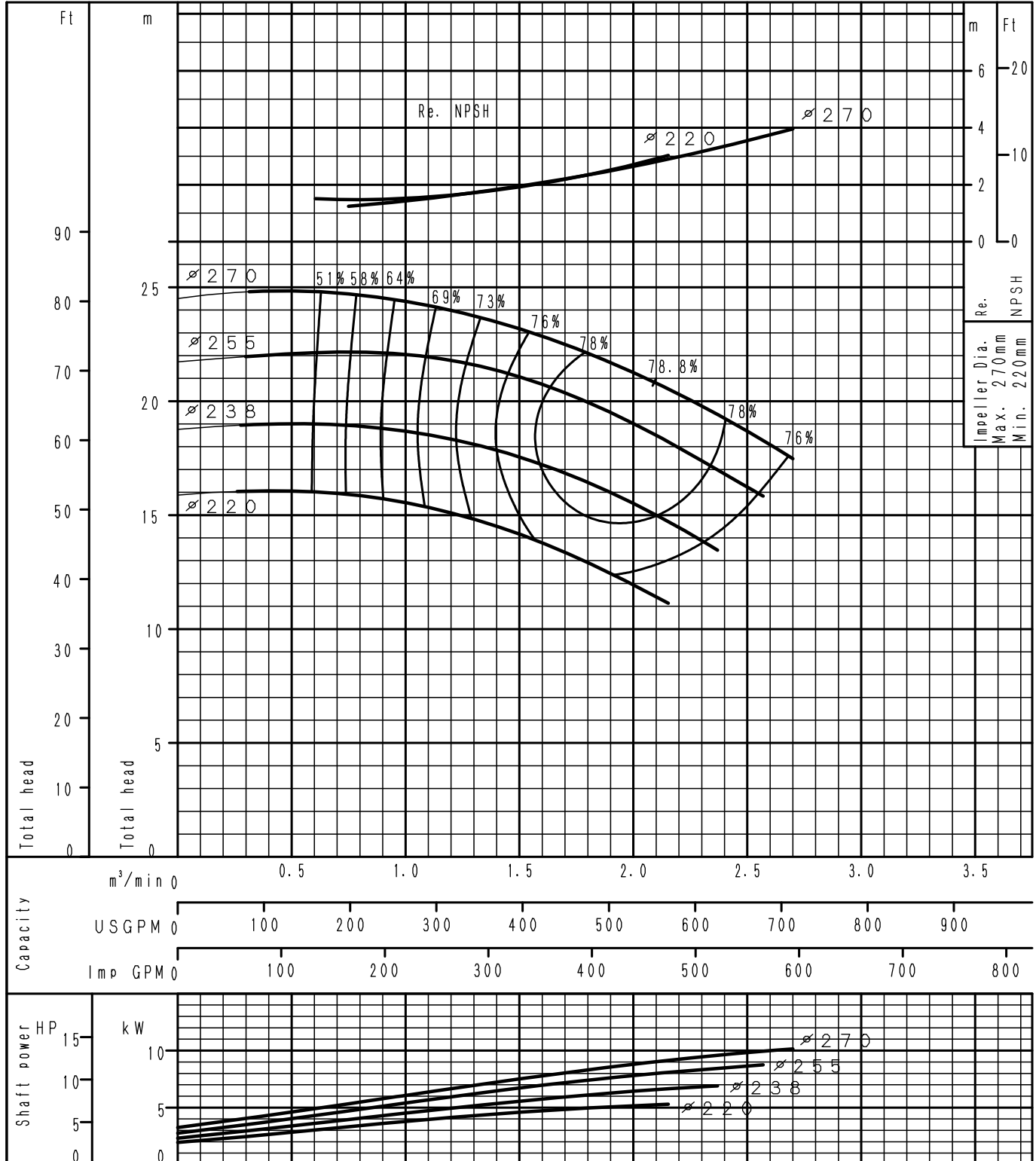
F8-1630843-01



Performance Curve

4 Poles

GSS80-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

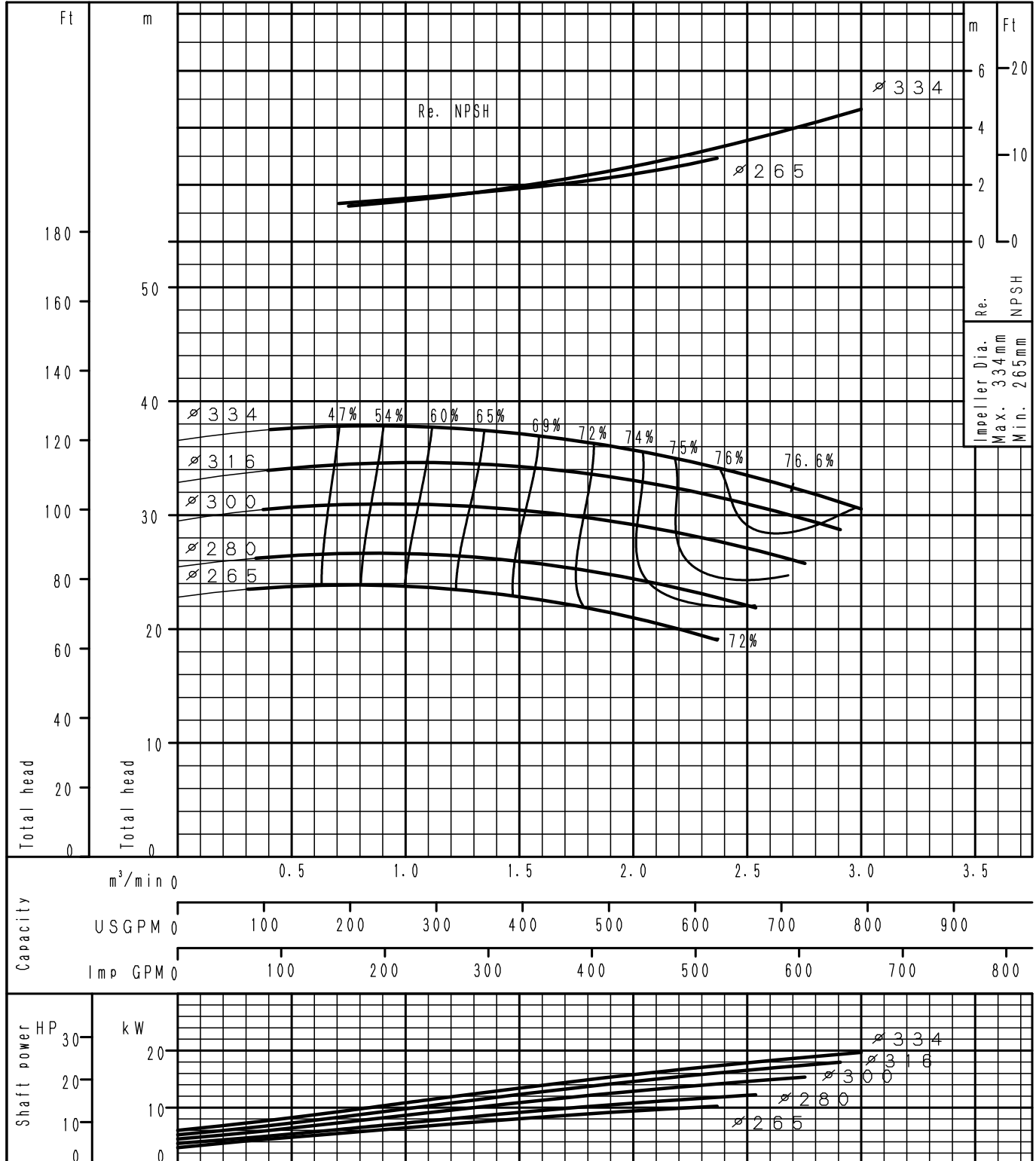


F8-1630844-01

Performance Curve

4 Poles

<h1 style="margin: 0;">GSS80-315</h1>	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

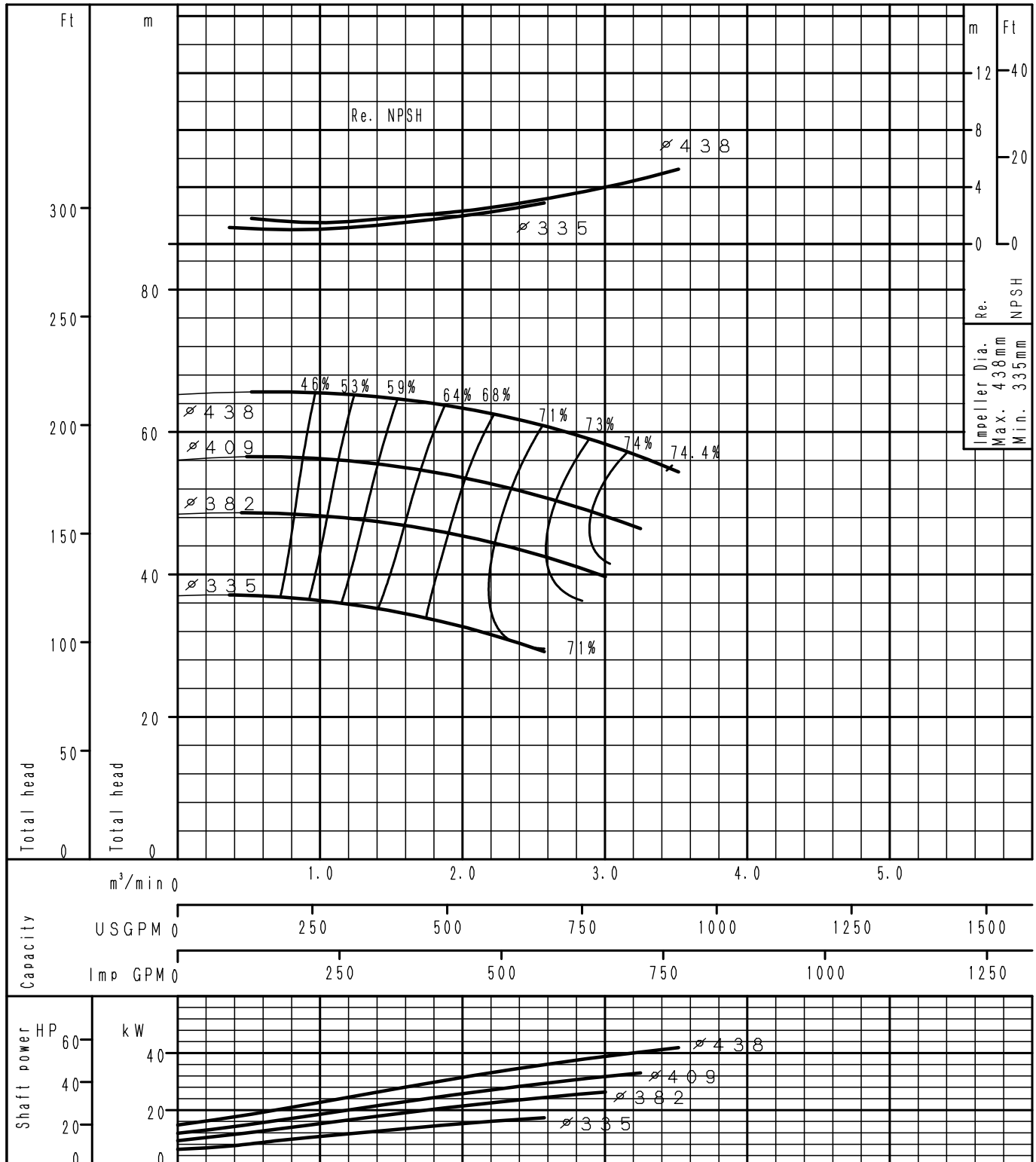


F8-1630845-01

Performance Curve

4 Poles

GSS80-400	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

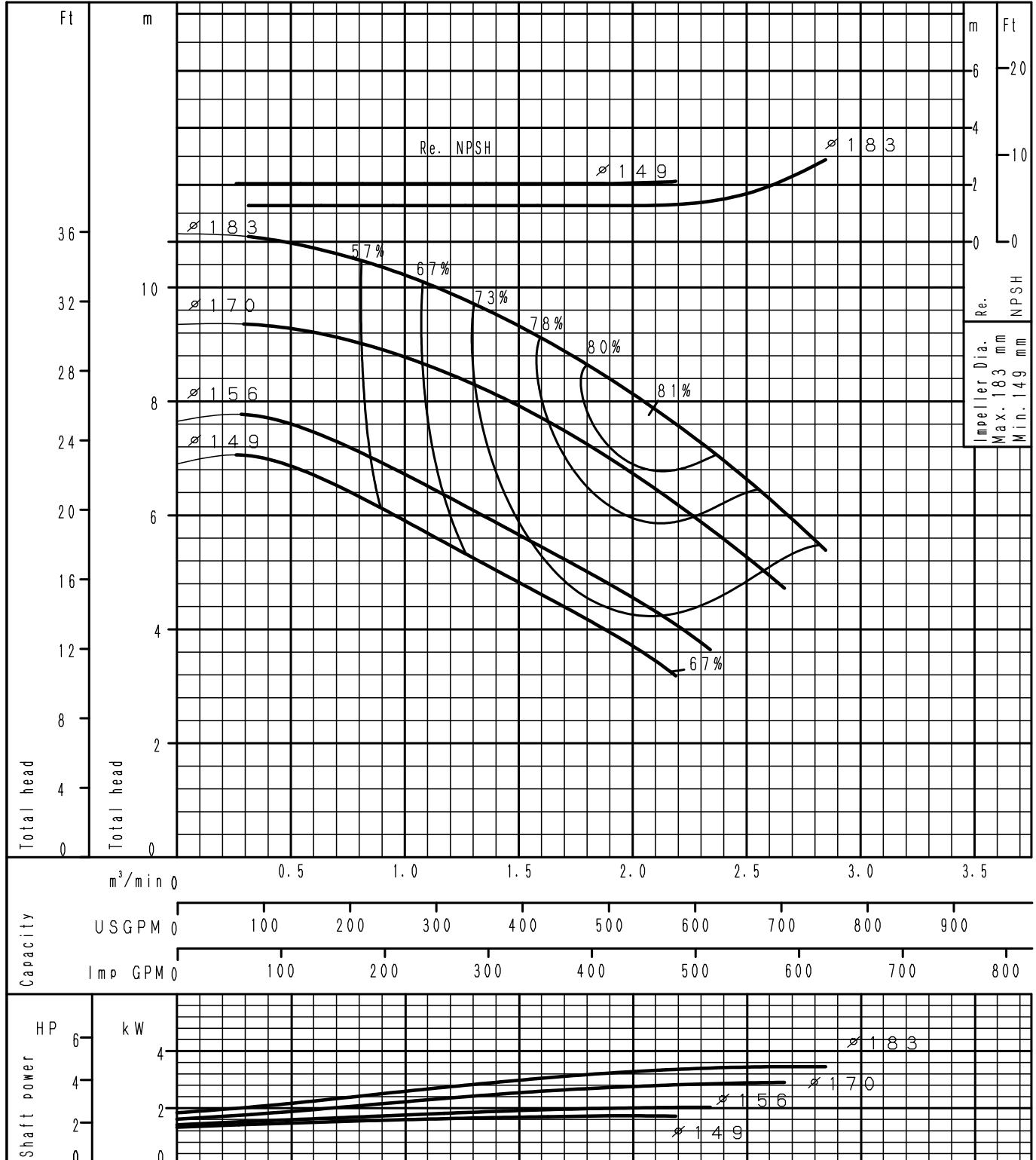




Performance Curve

4 Poles

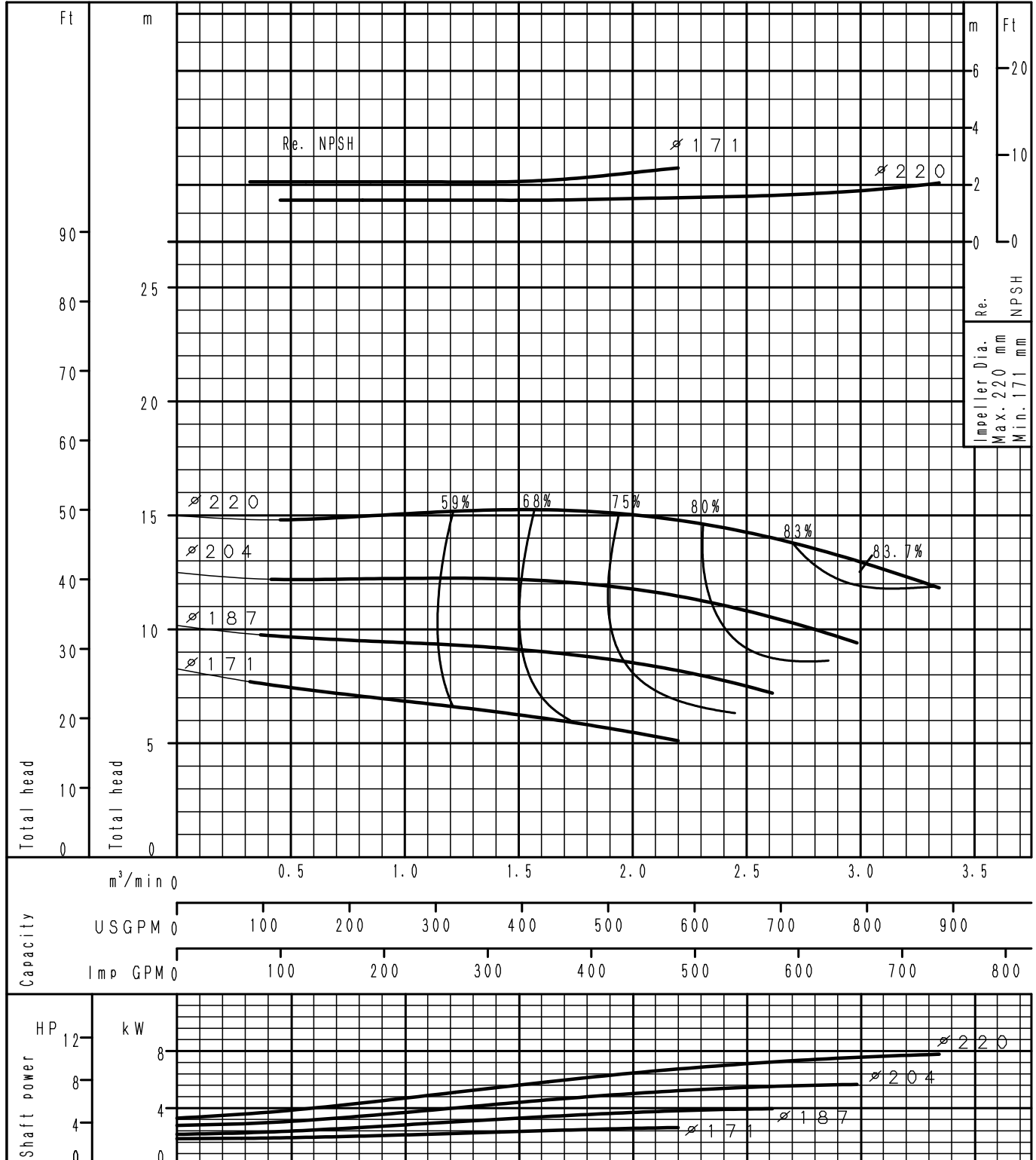
GSS100-160	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

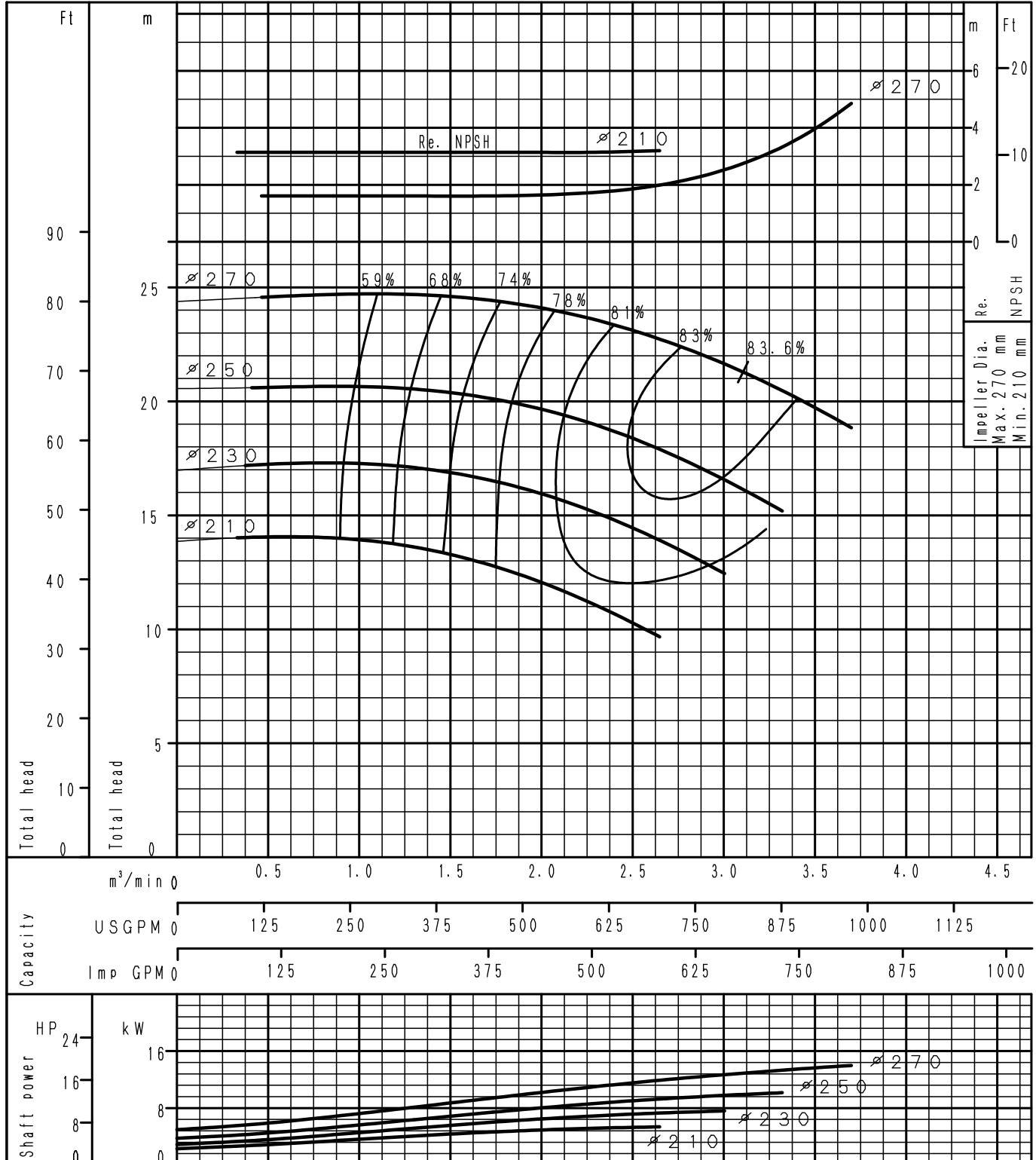
GSS100-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

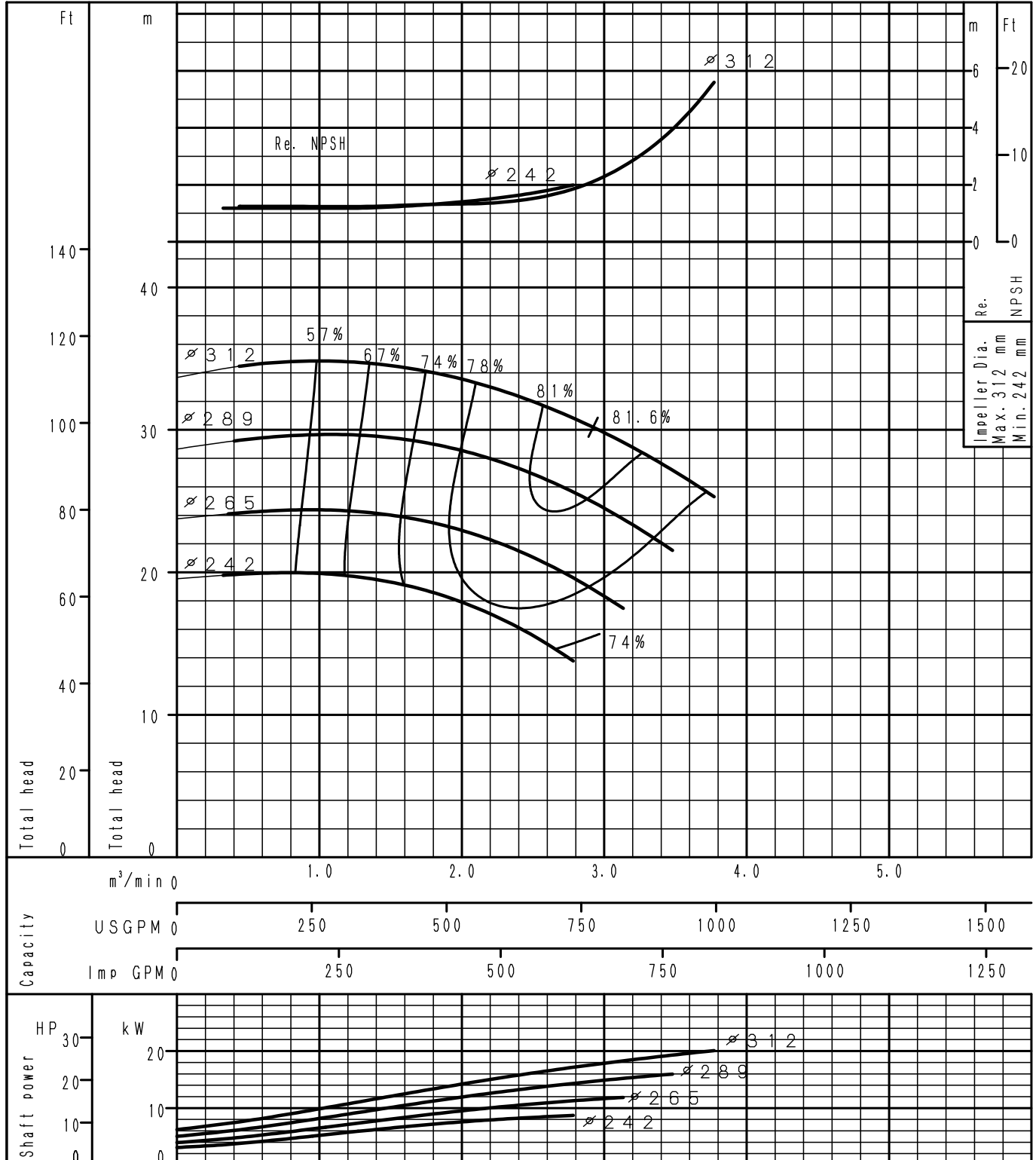
GSS100-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

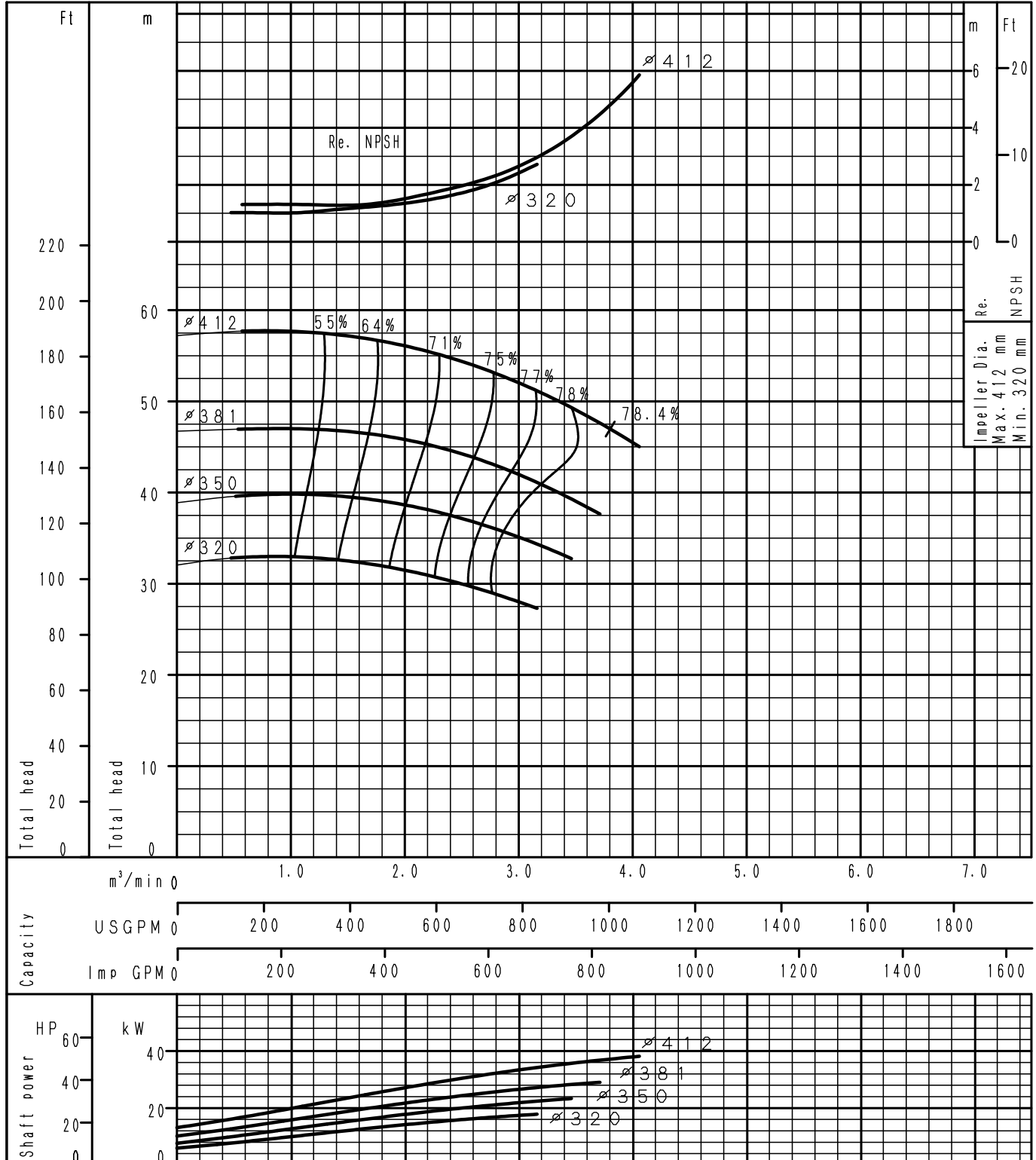
GSS100-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

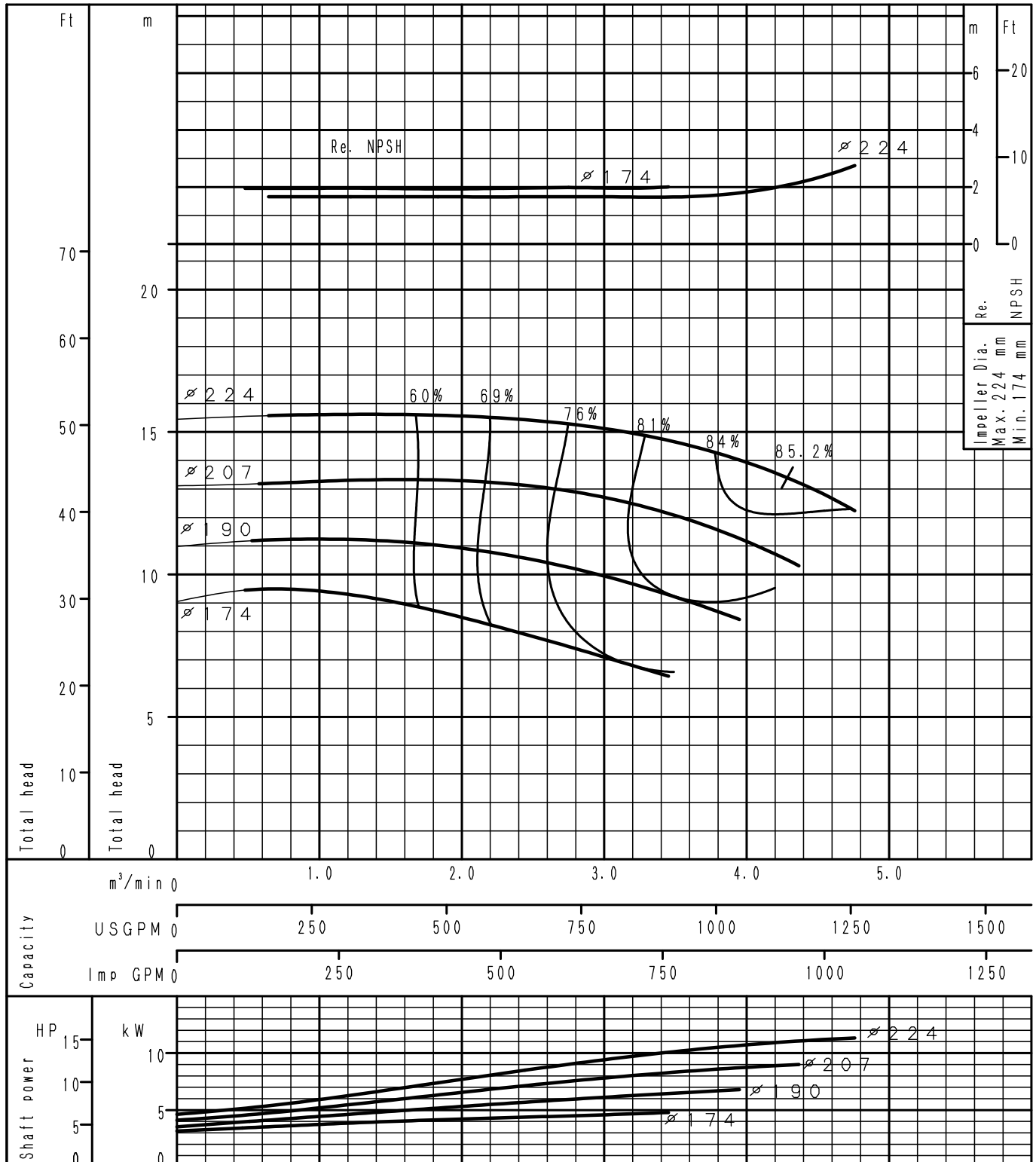
GSS100-400	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

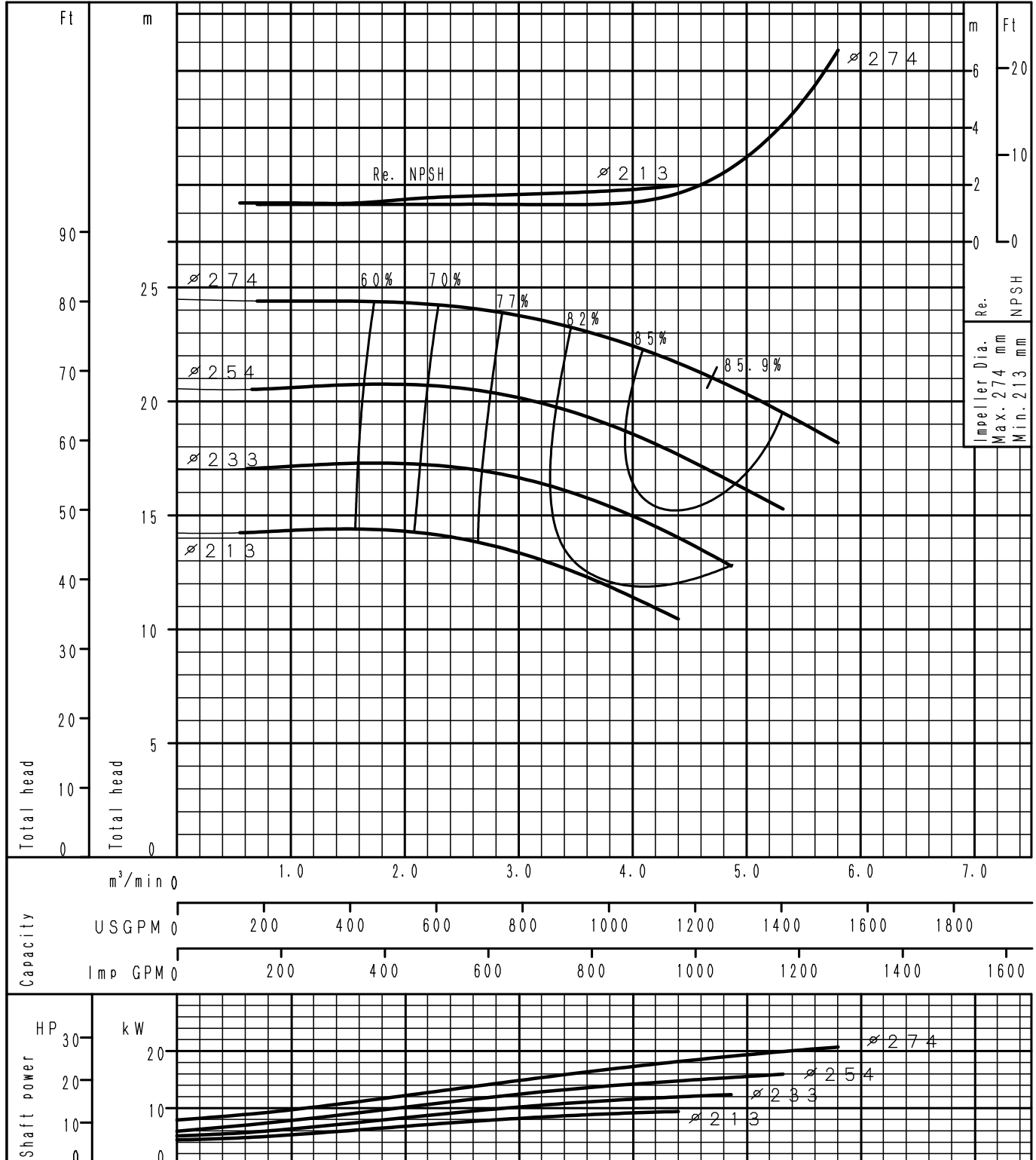
GSS125-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

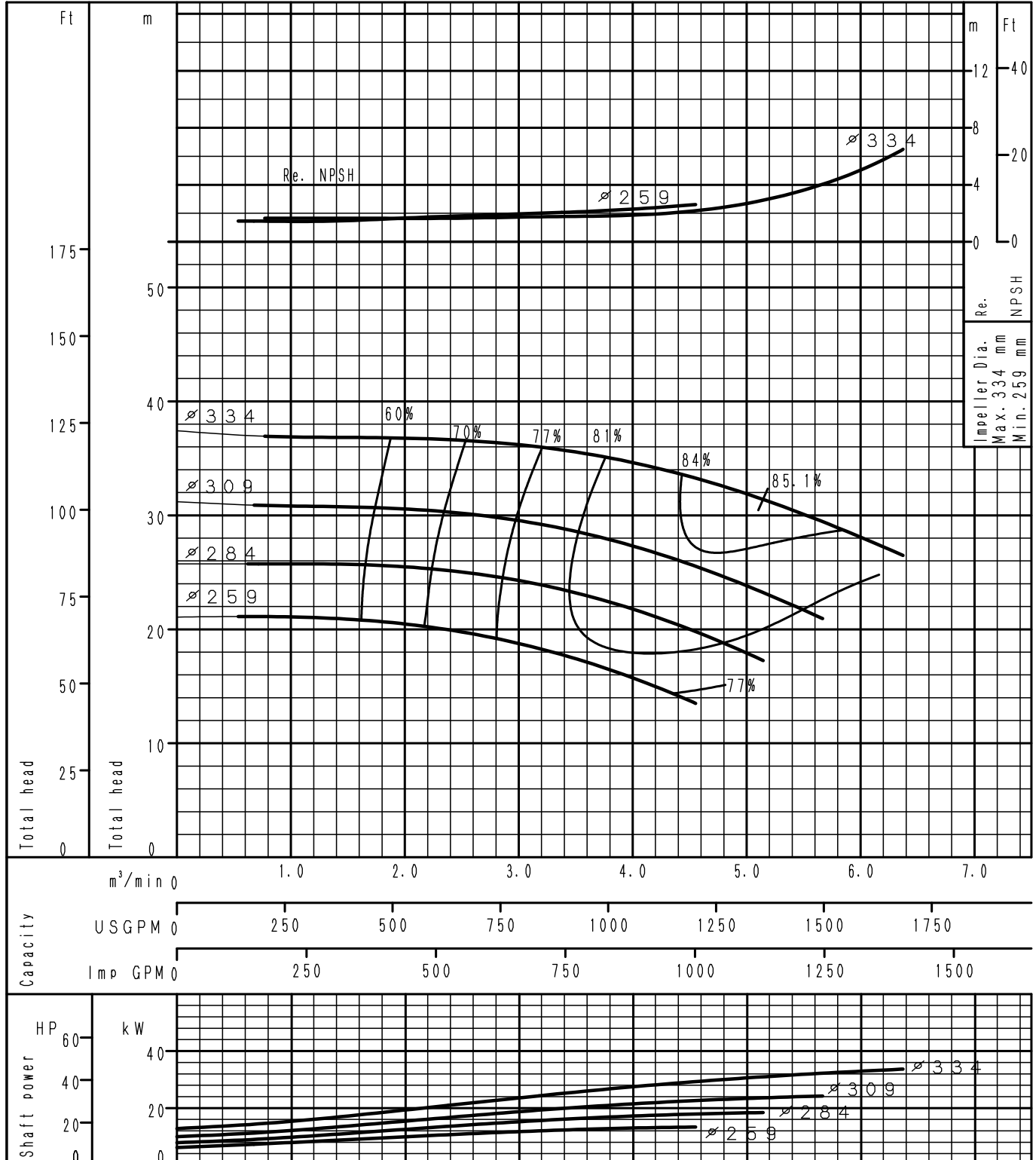
GSS125-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS125-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

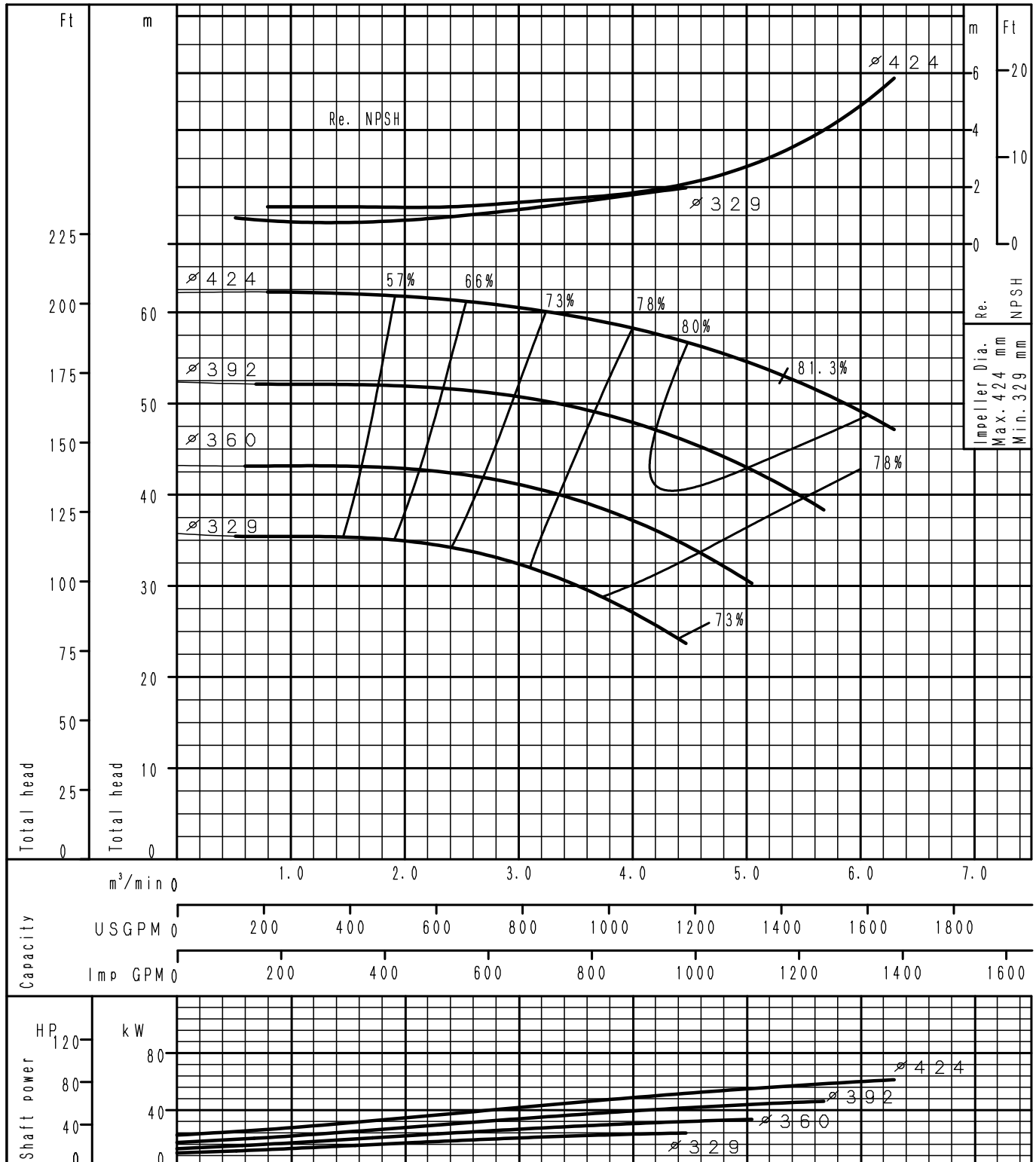




Performance Curve

4 Poles

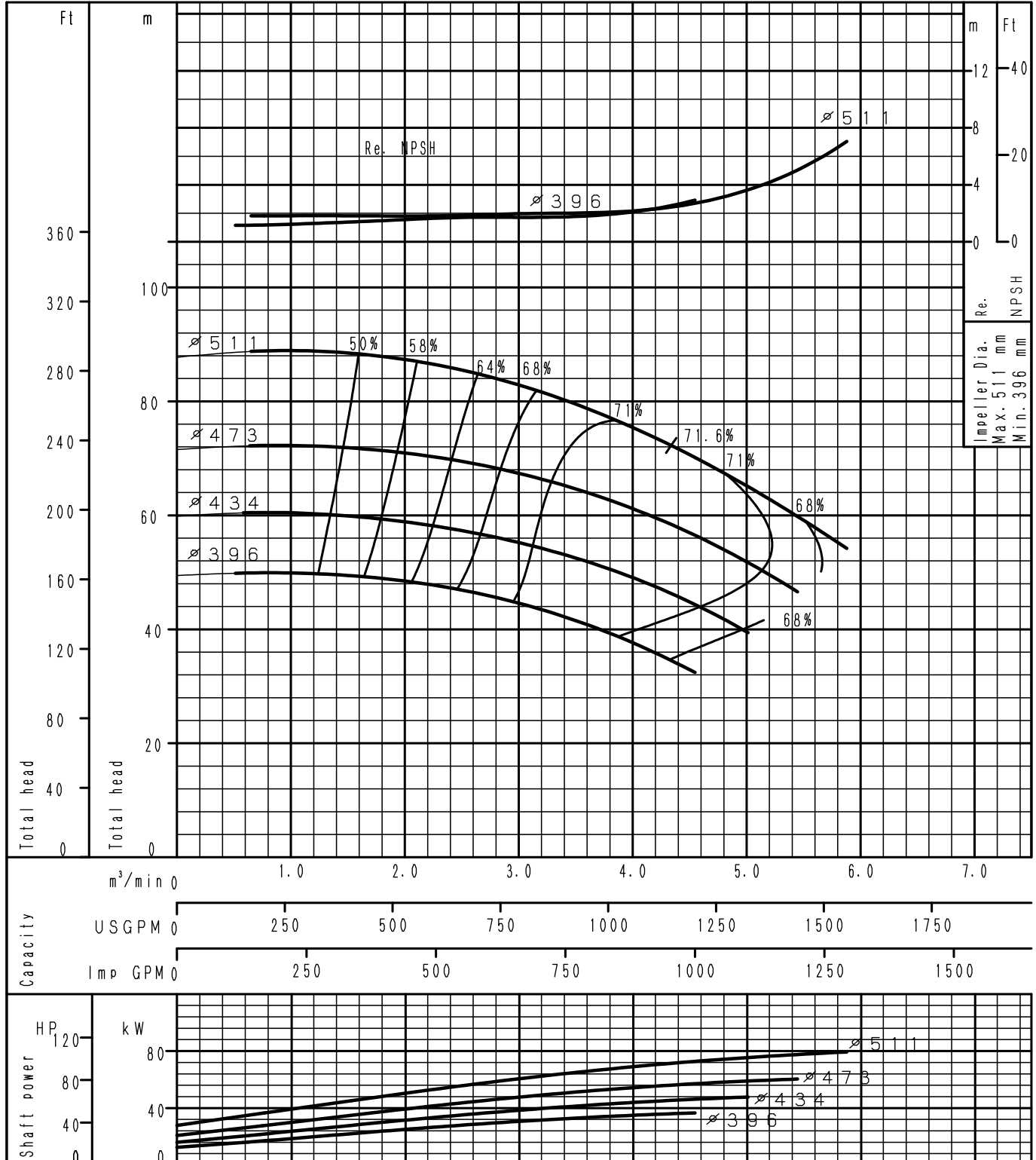
GSS125-400	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

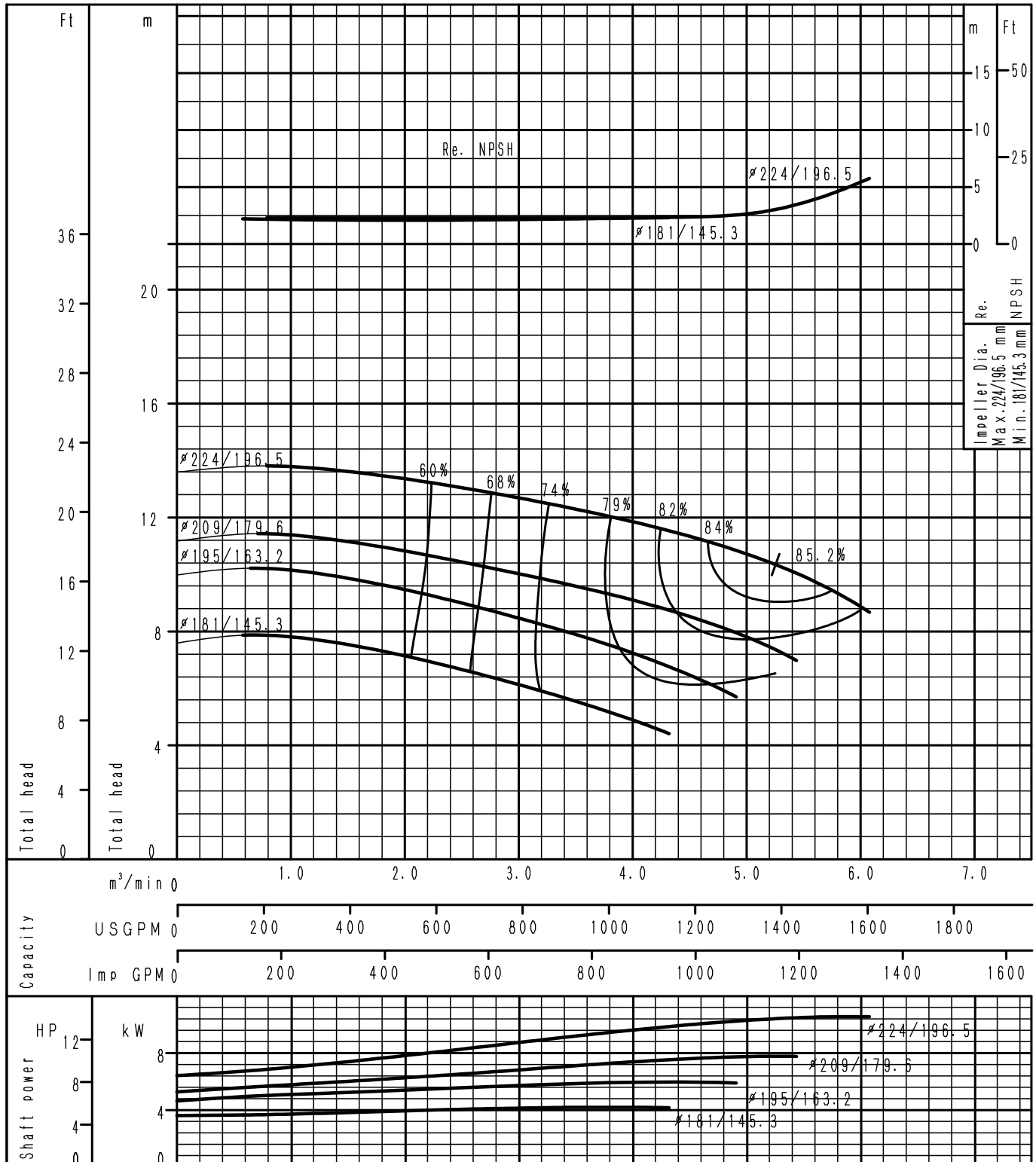
GSS125-500	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

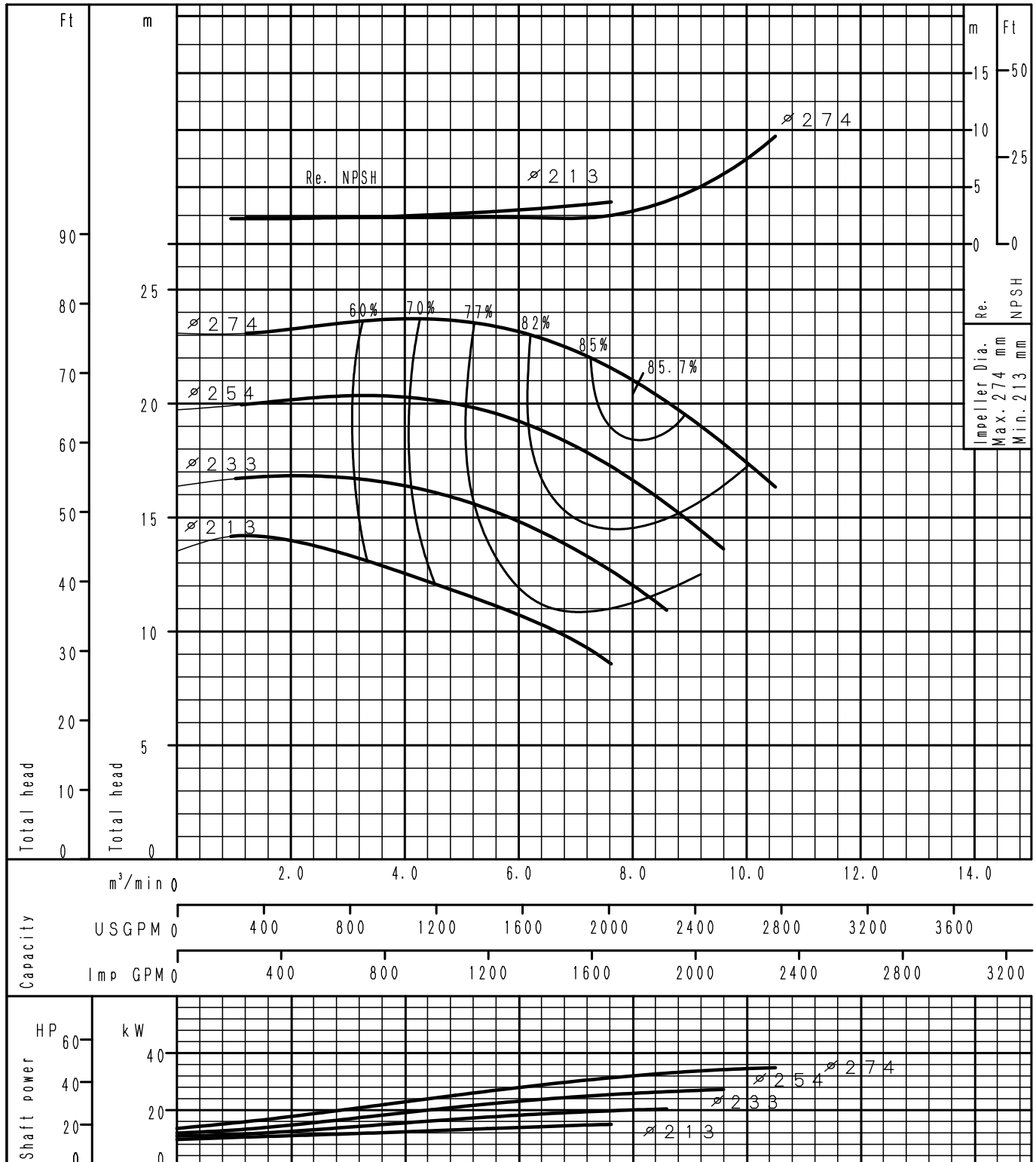
GSS150-200	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

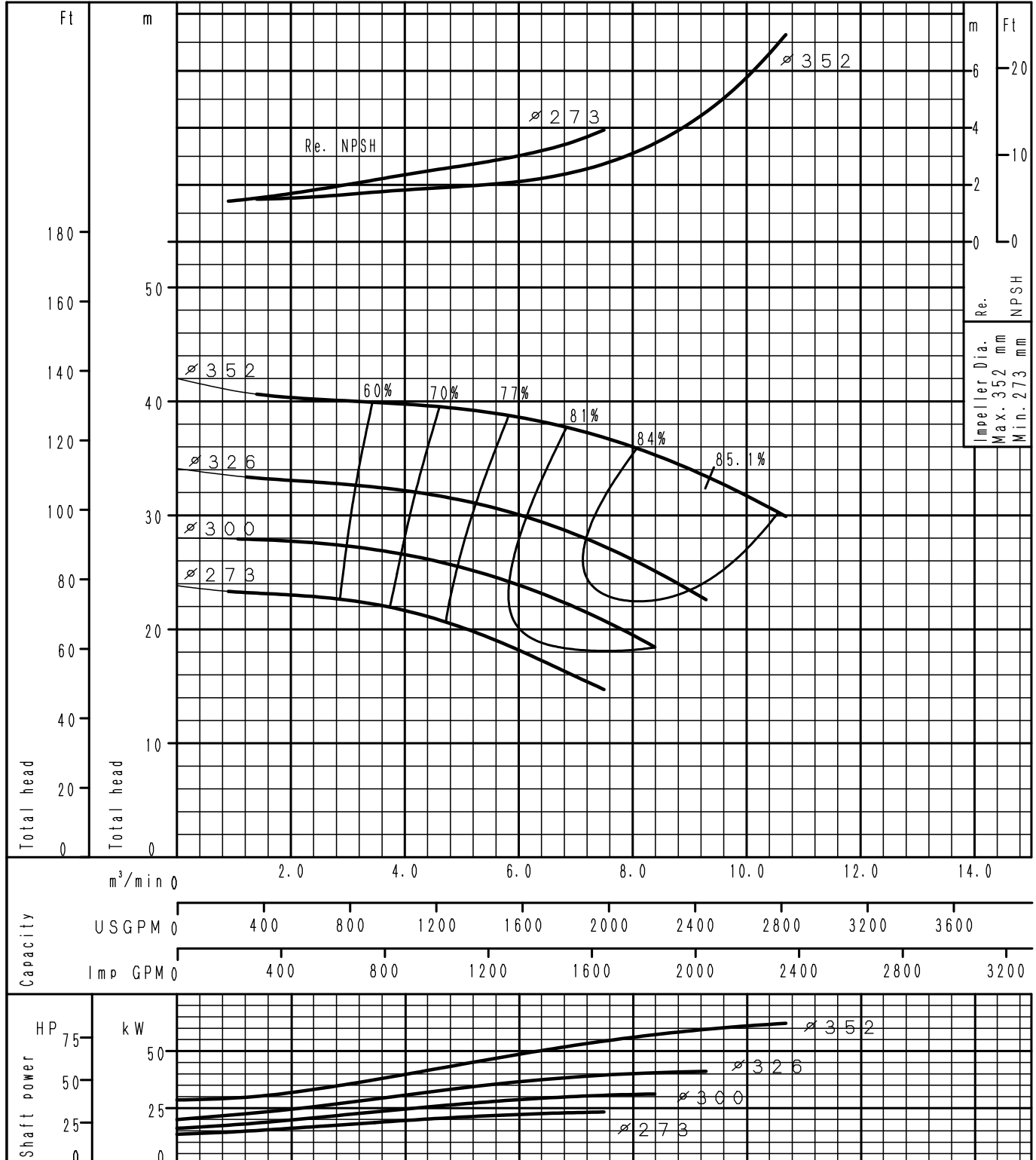
GSS150-250	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

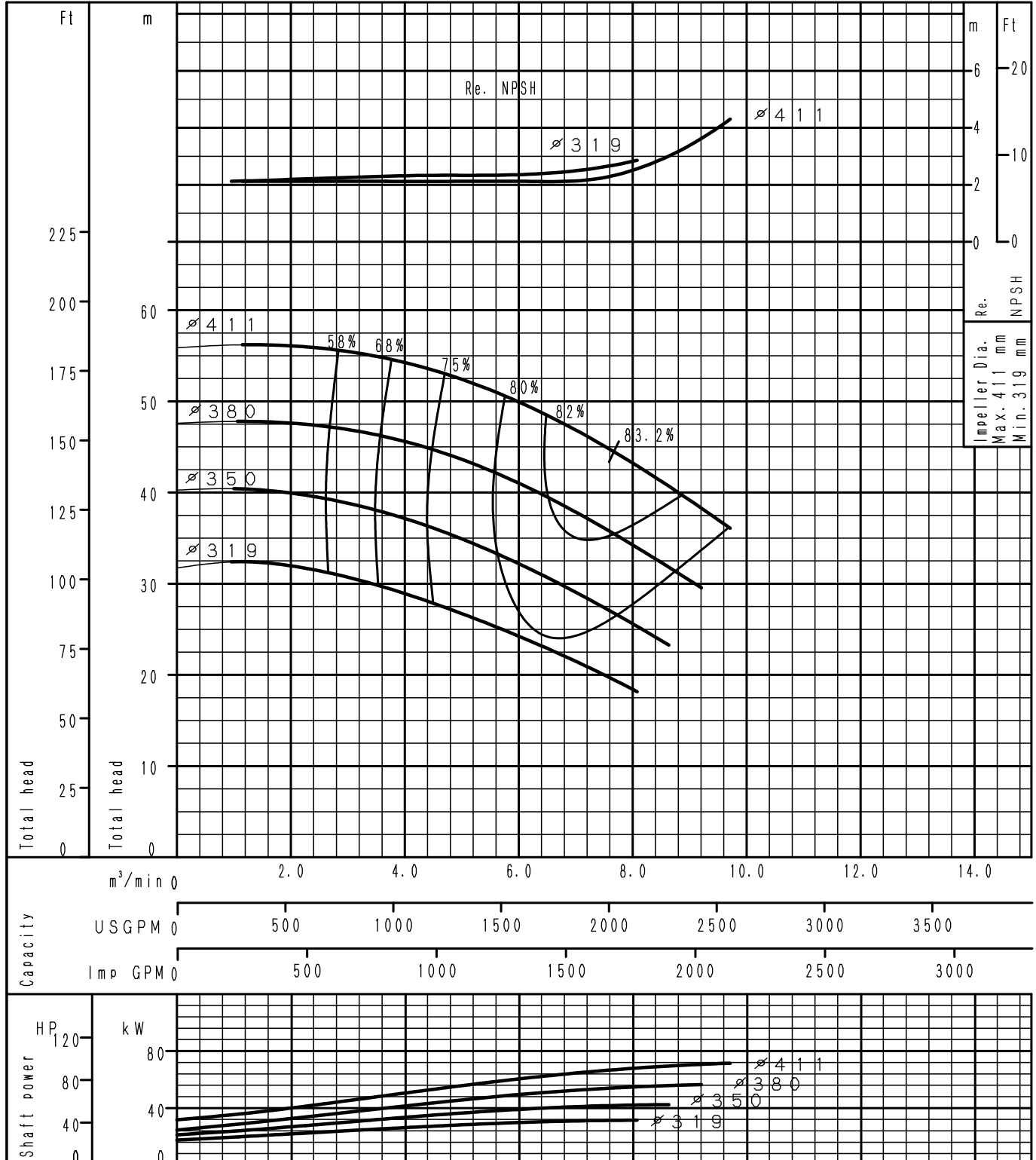
GSS150-315	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

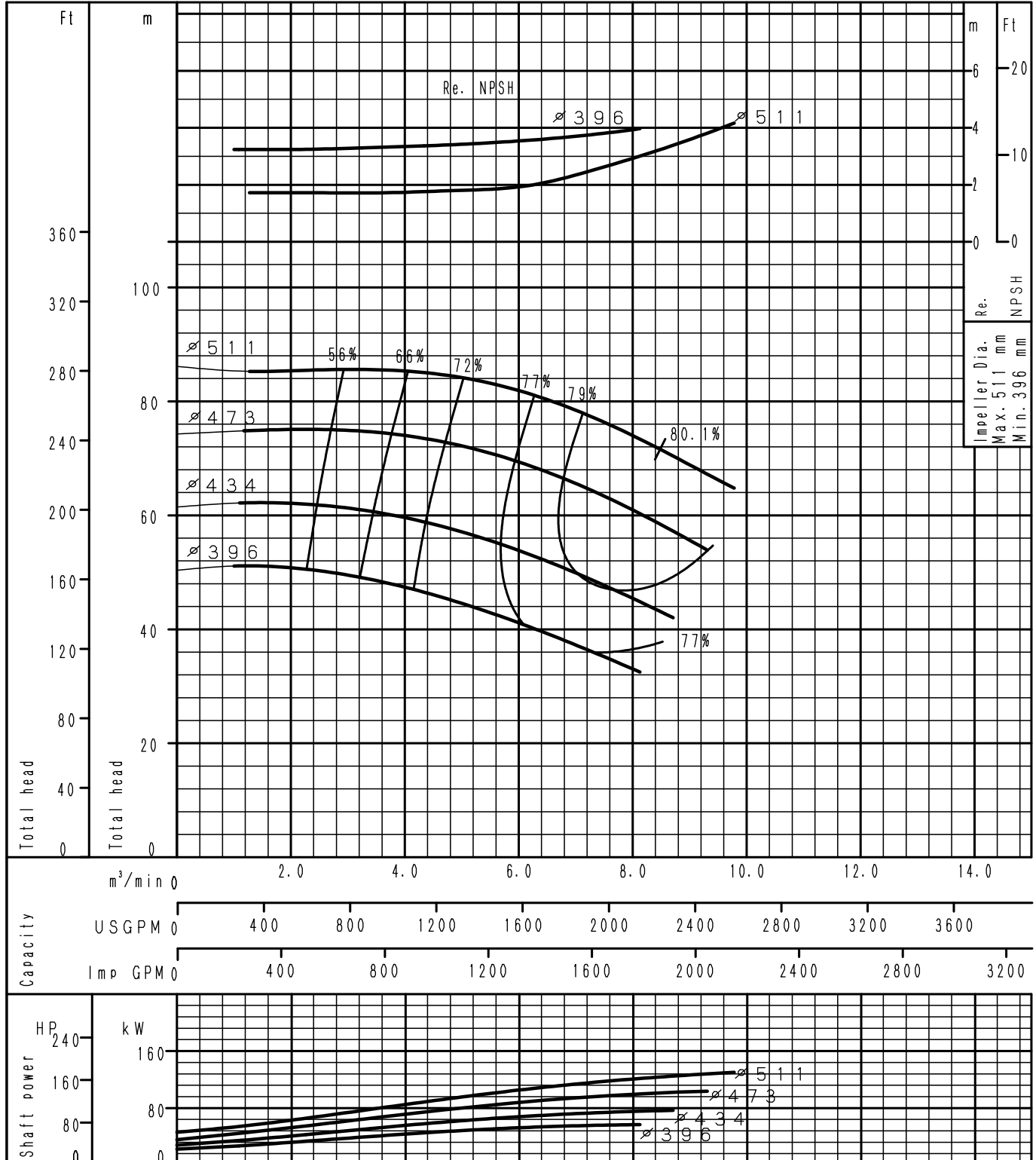
GSS150-400	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

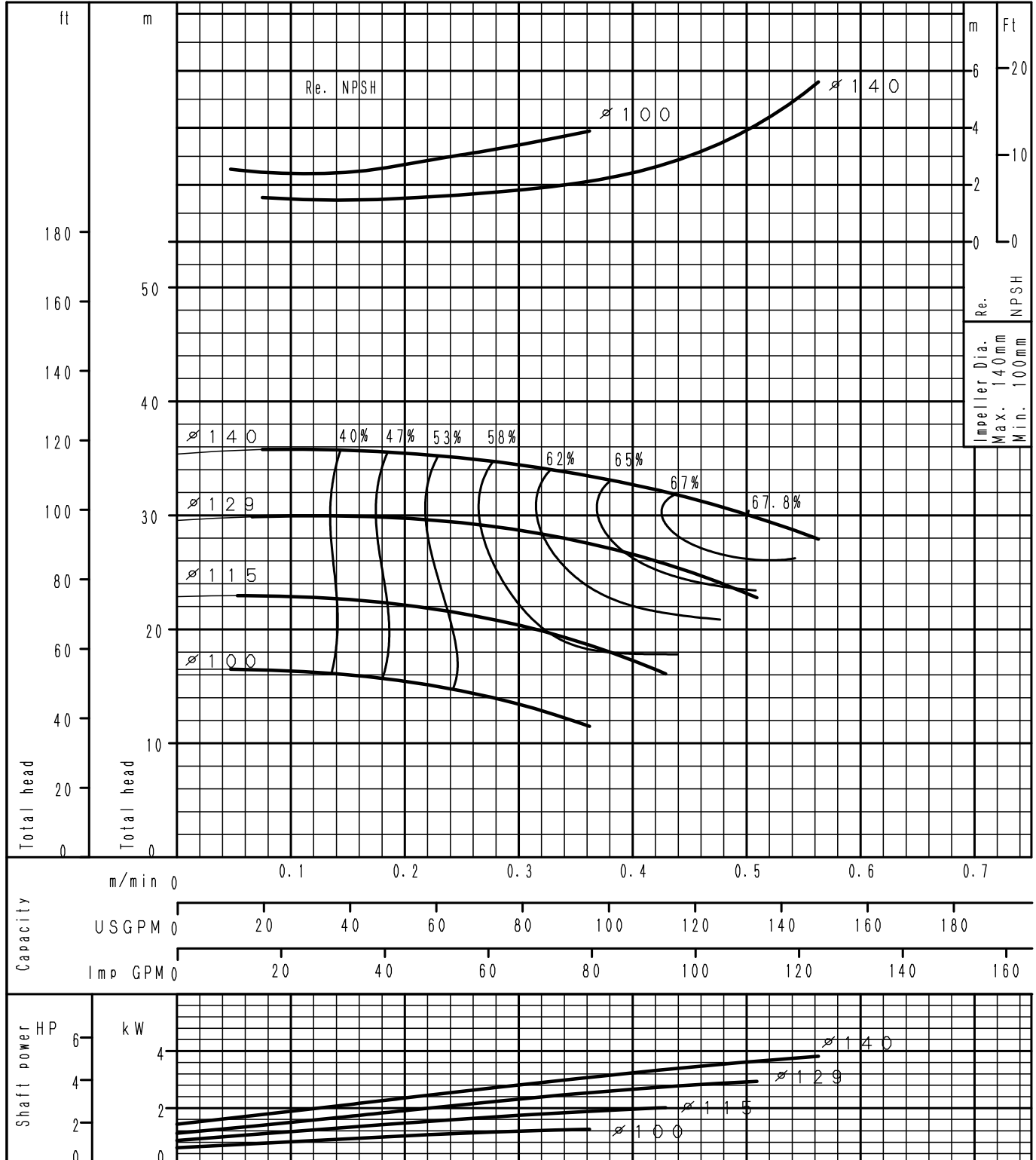
GSS150-500	According to ISO testing code 9906 Grade 3B
50Hz ( Speed 1450 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS32-125.1	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

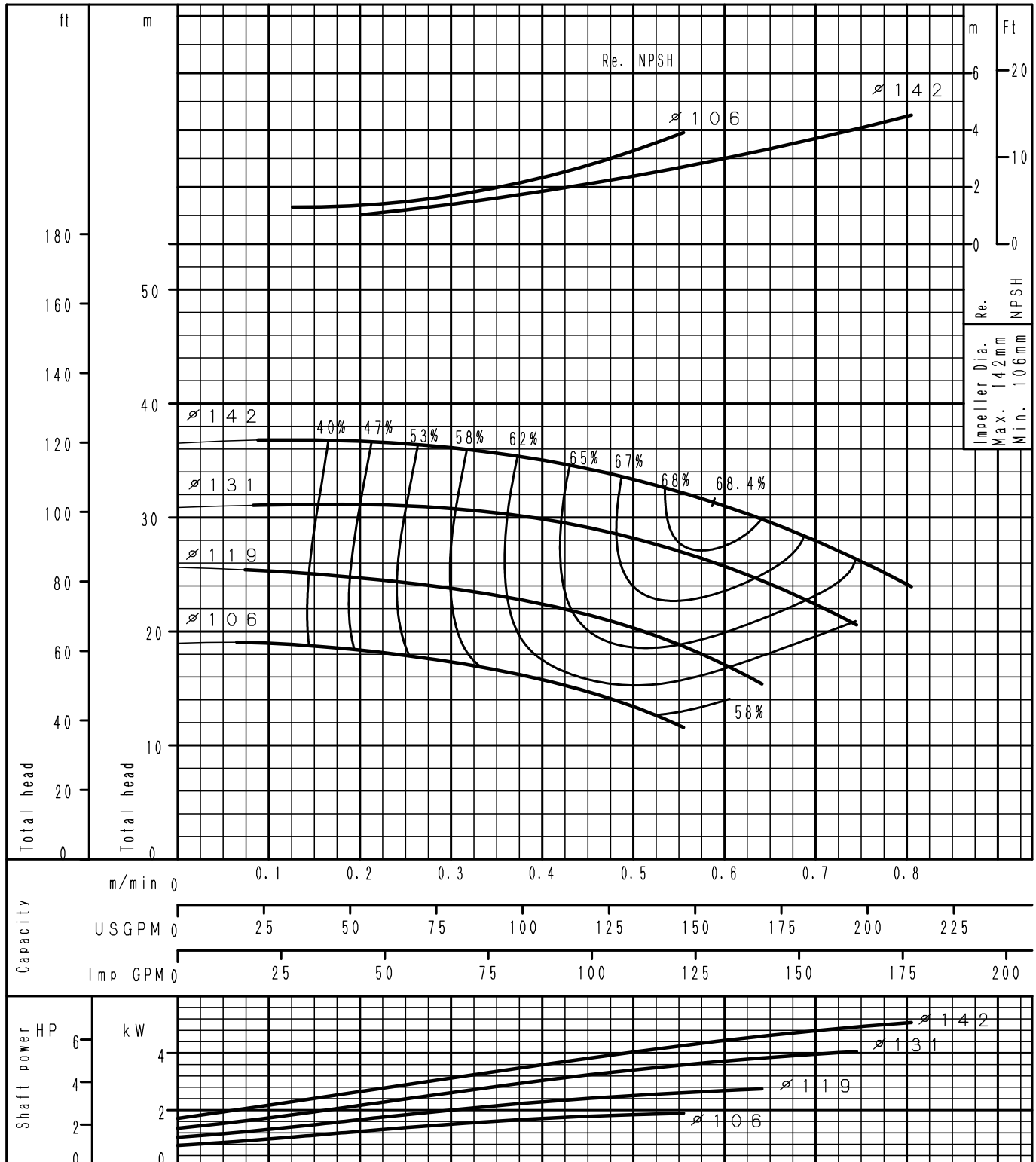




Performance Curve

2 Poles

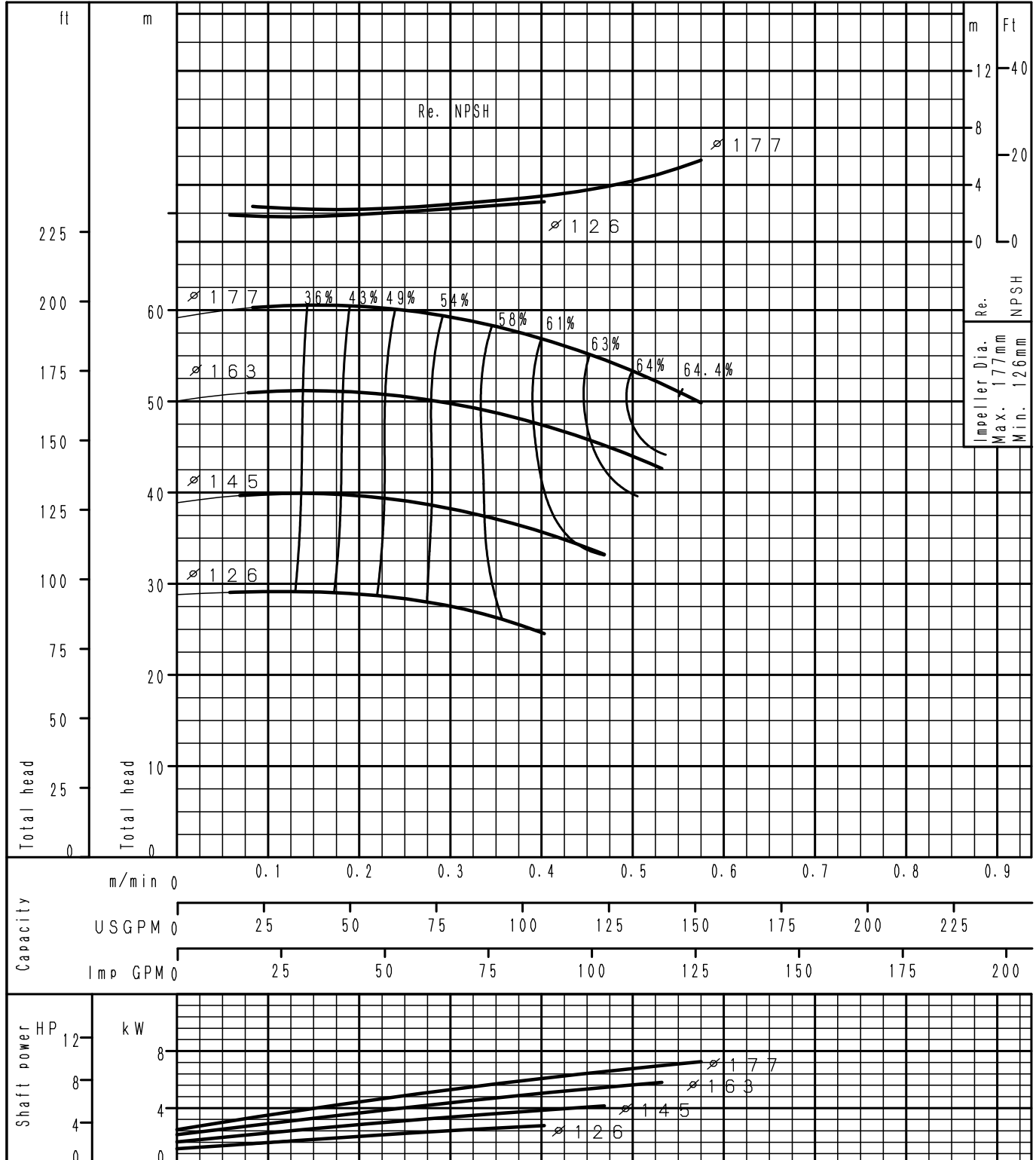
GSS32-125	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

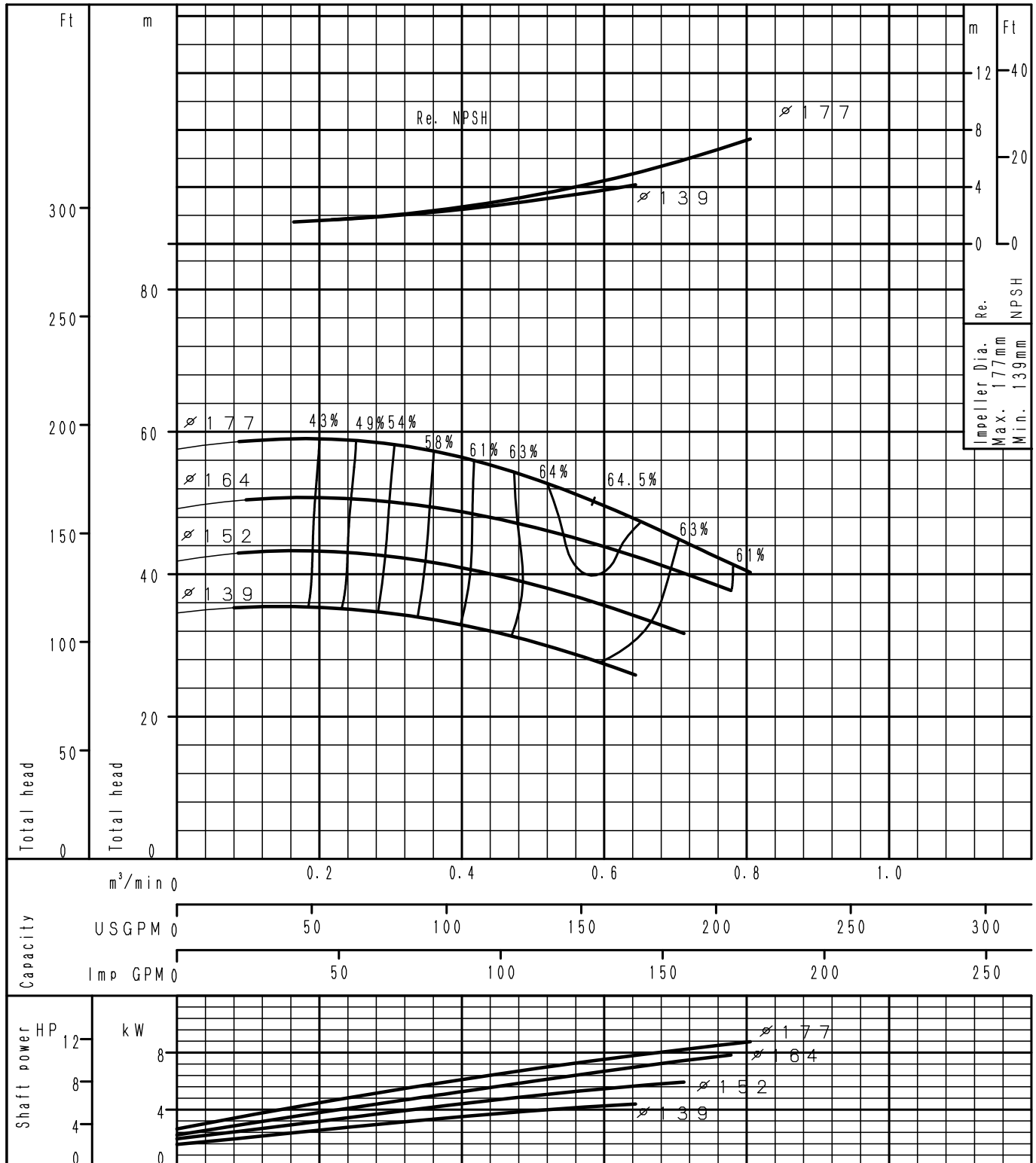
<h1 style="margin: 0;">GSS32-160.1</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

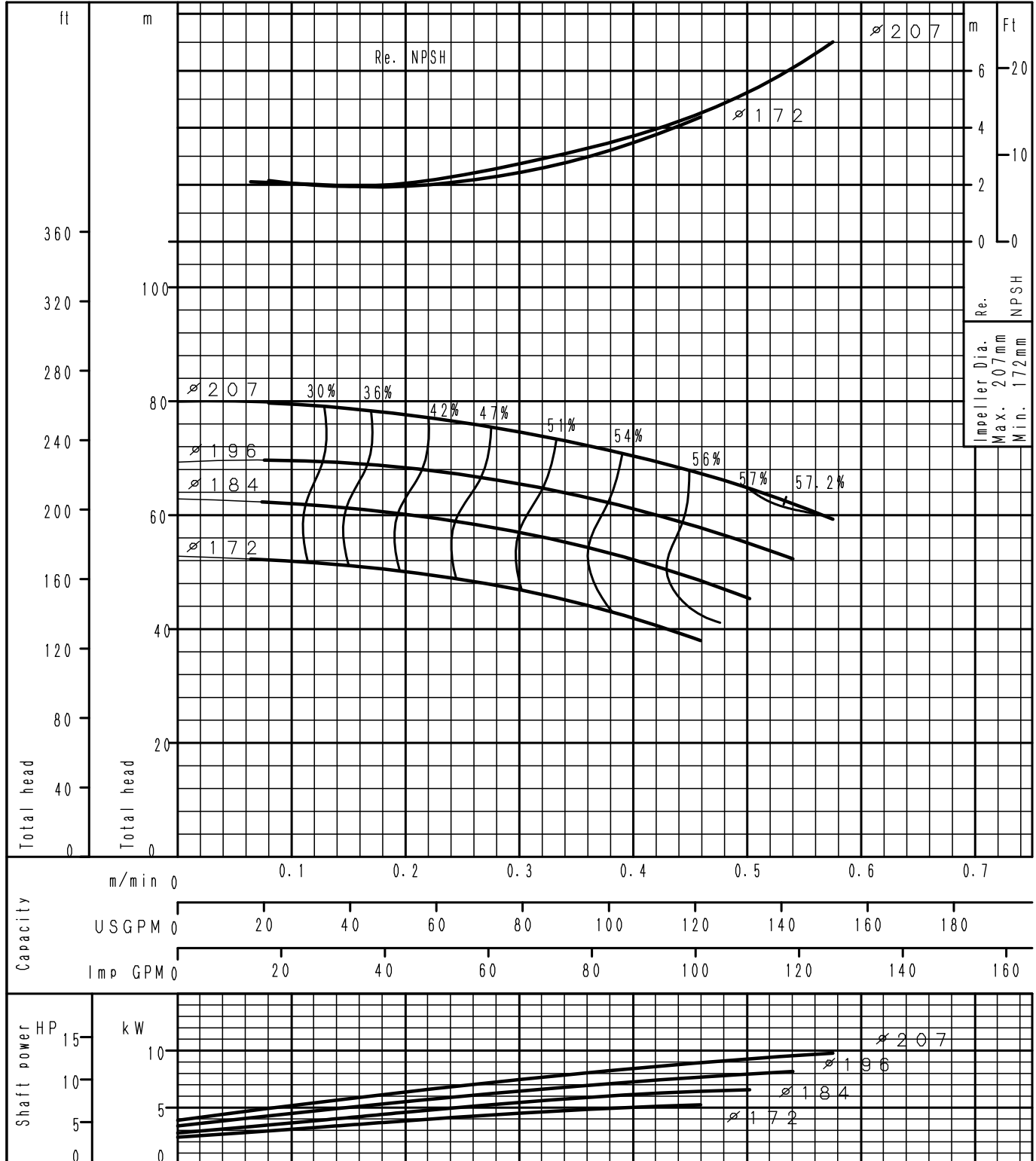
GSS32-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

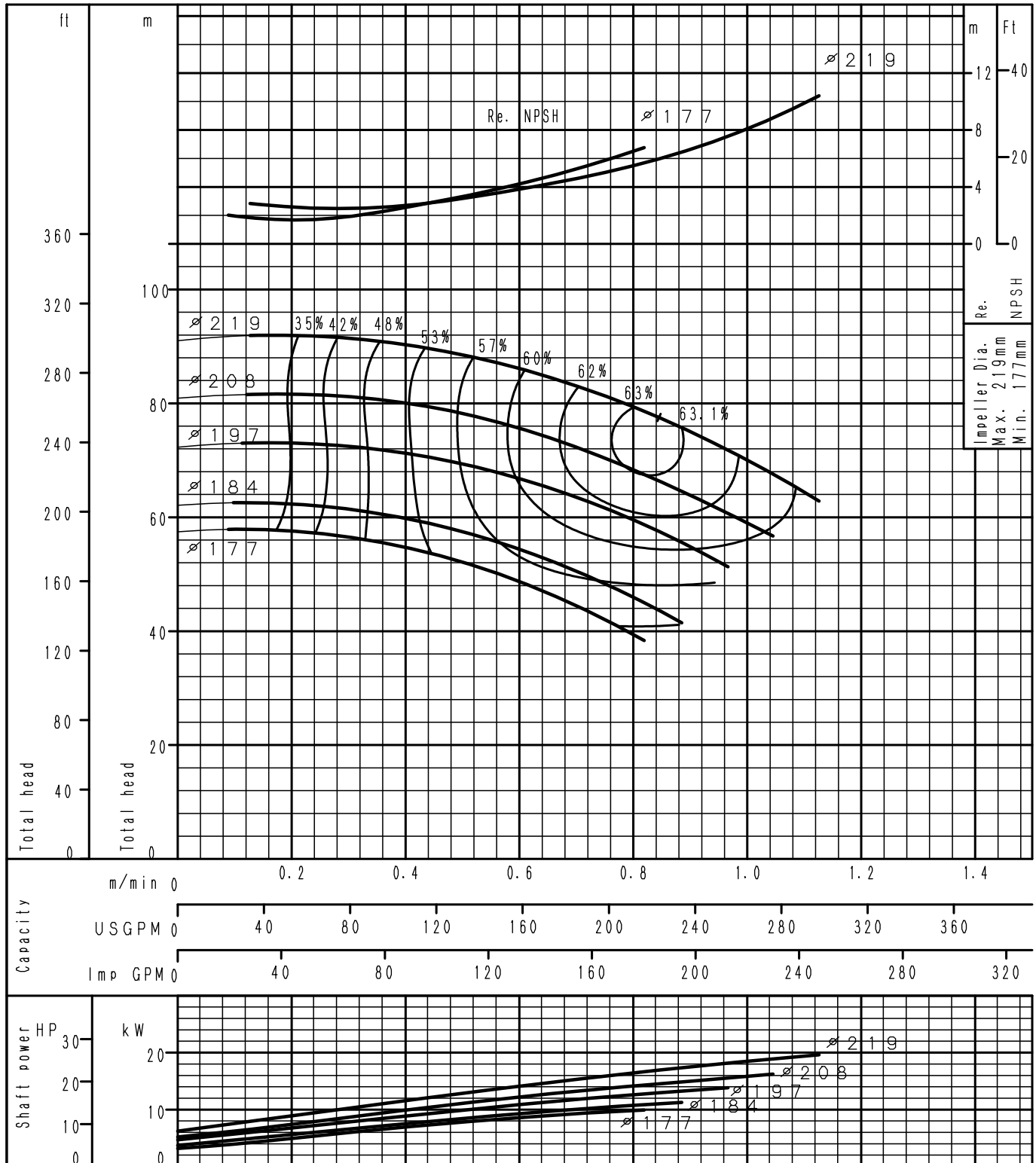
GSS32-200.1	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

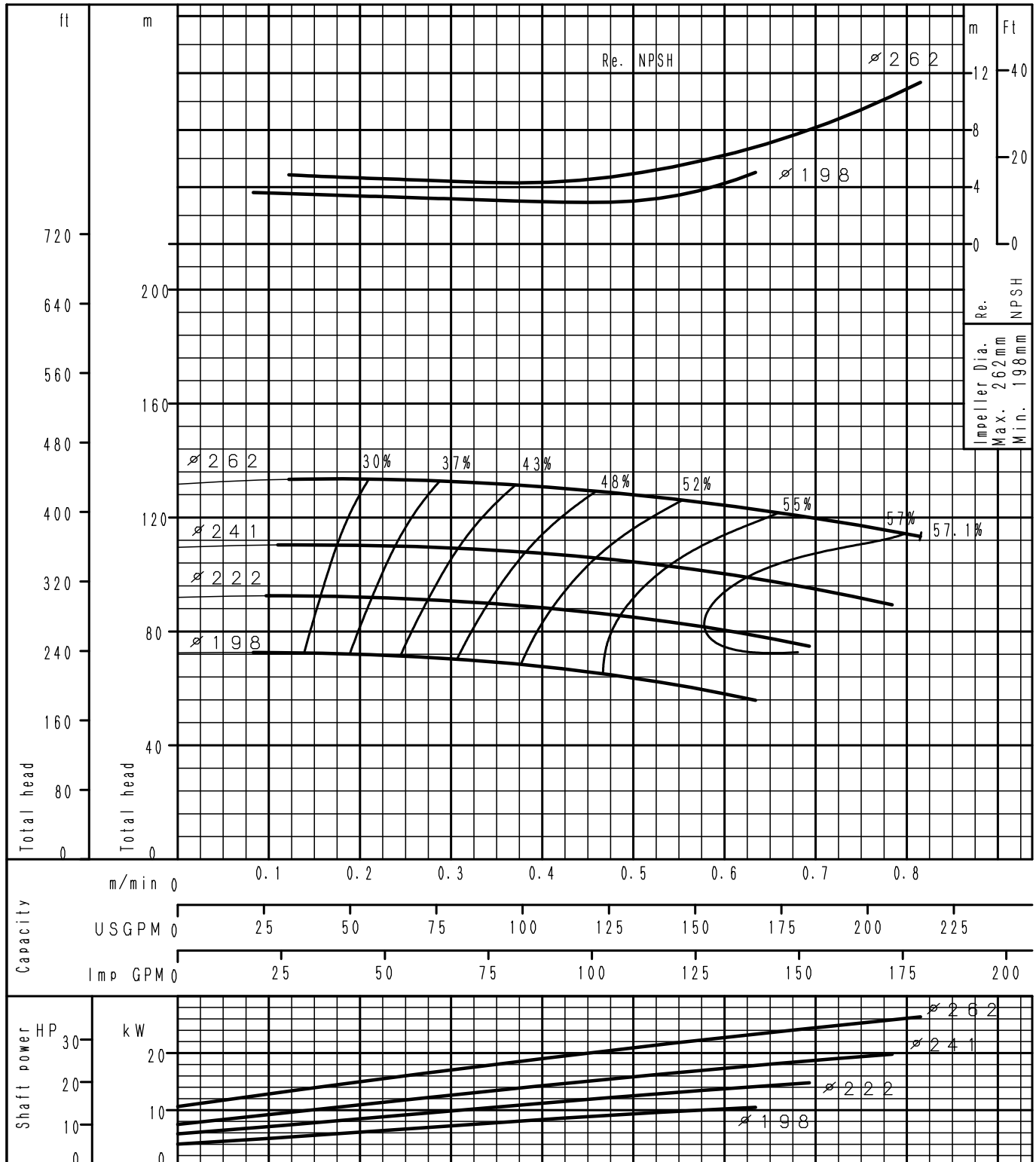
GSS32-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

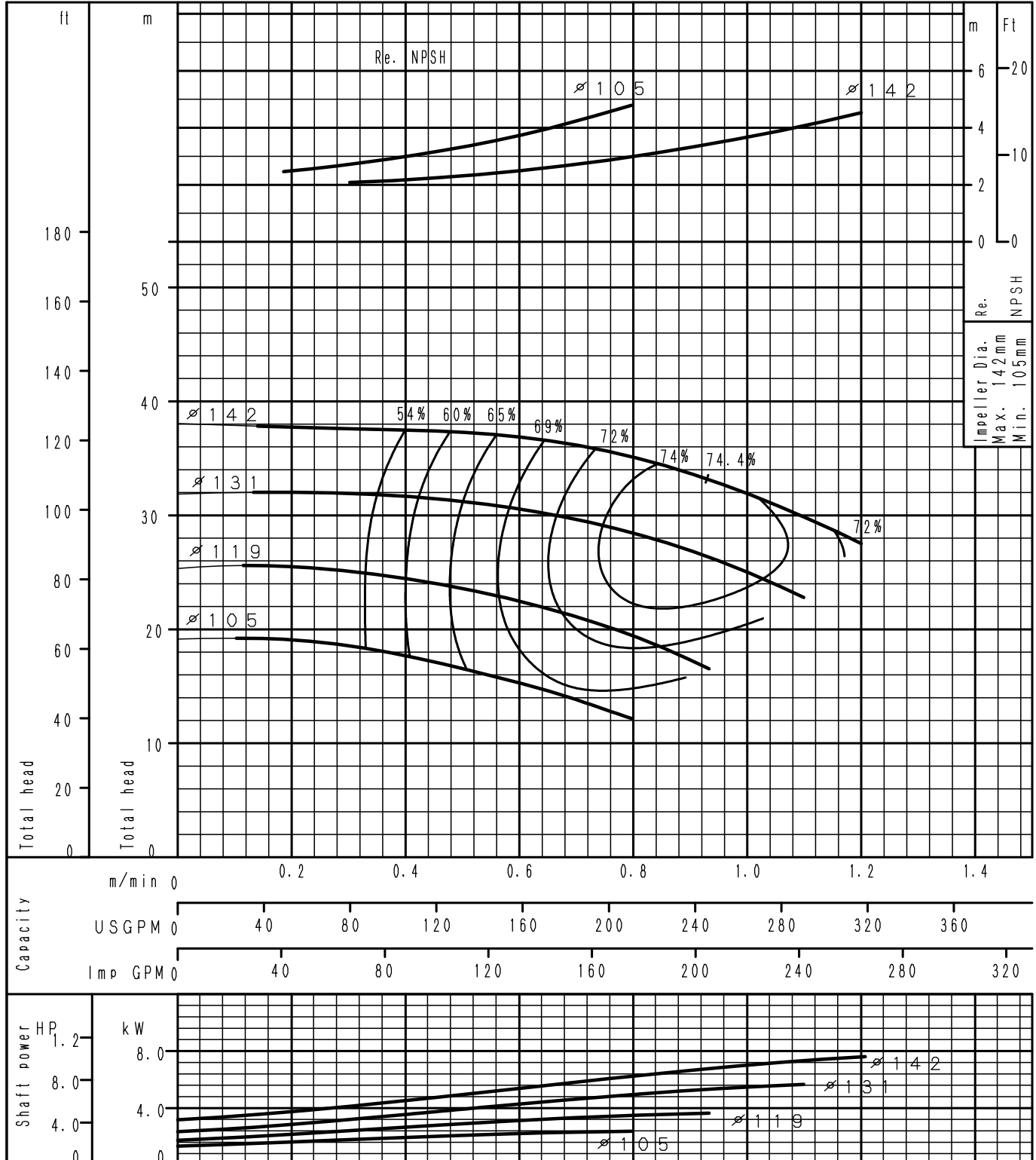
GSS32-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

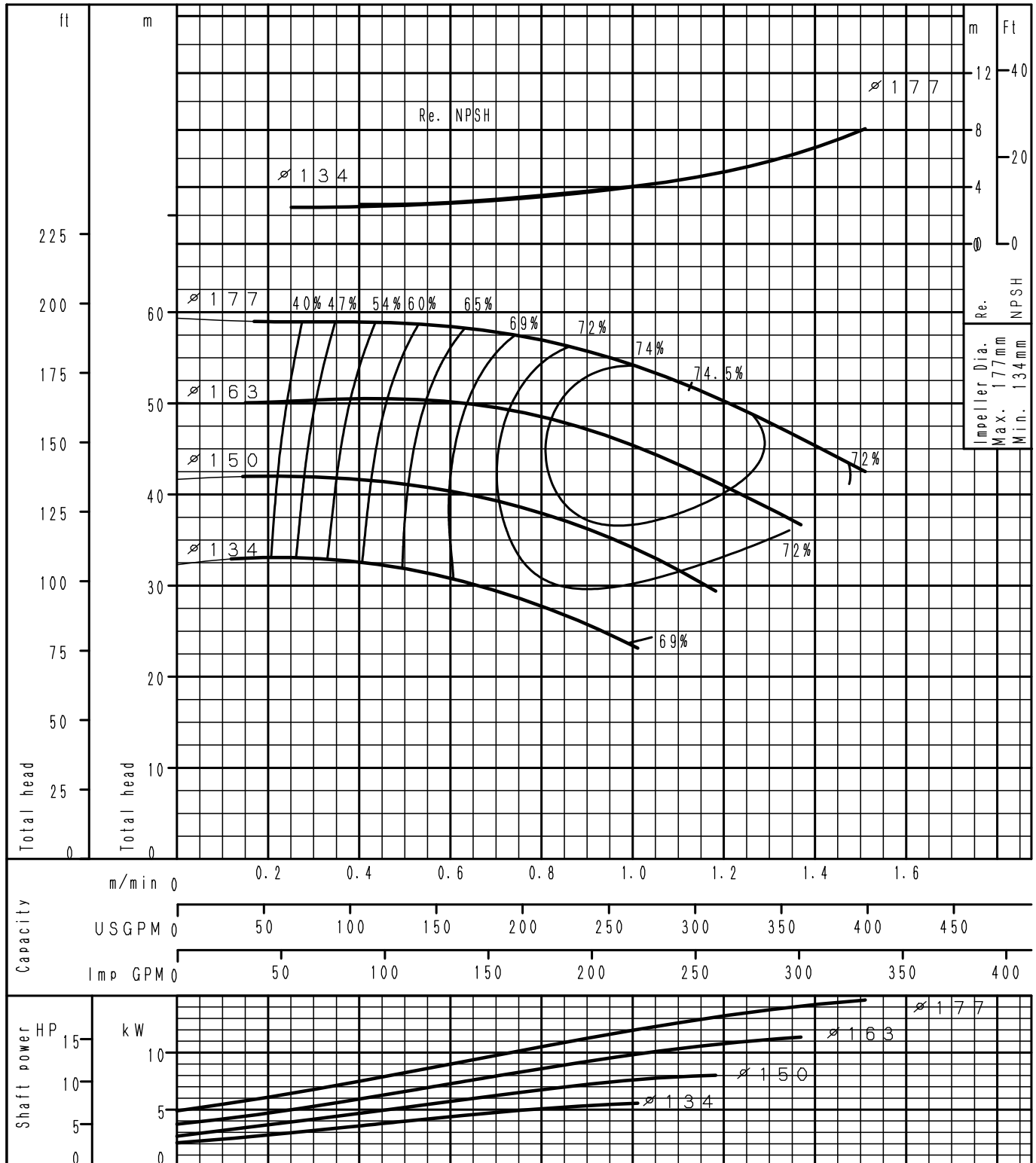
GSS40-125	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS40-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

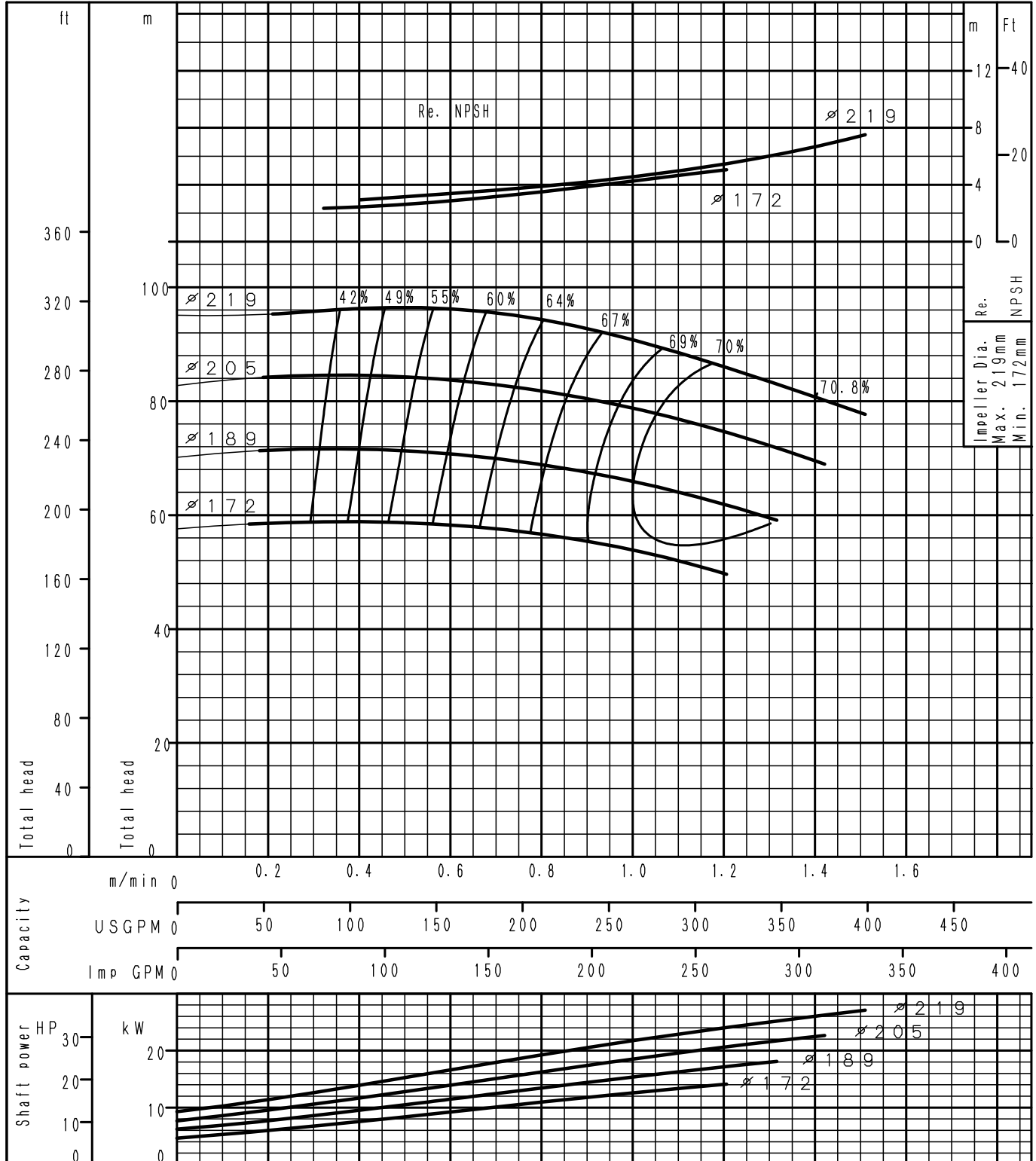




Performance Curve

2 Poles

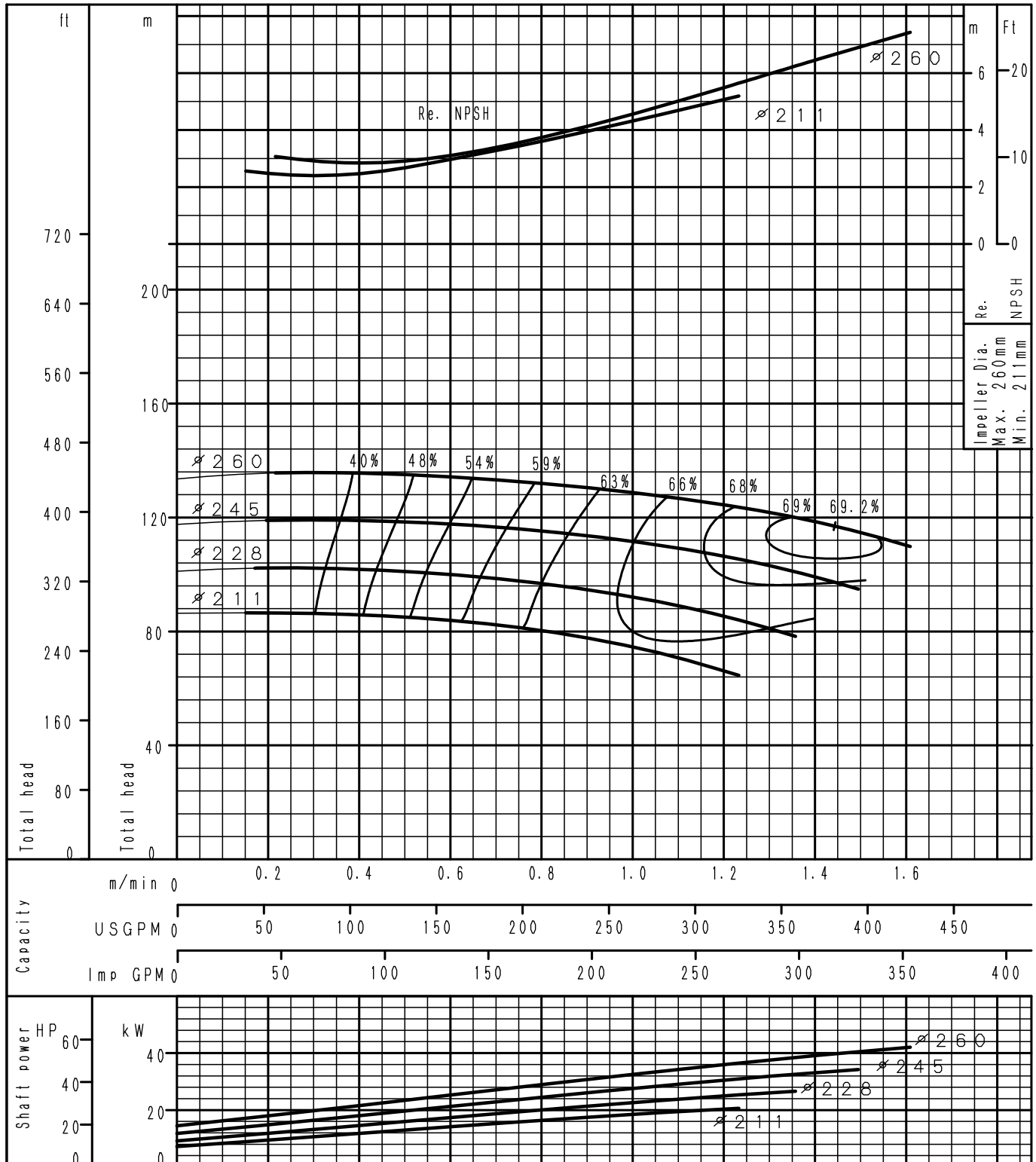
GSS40-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

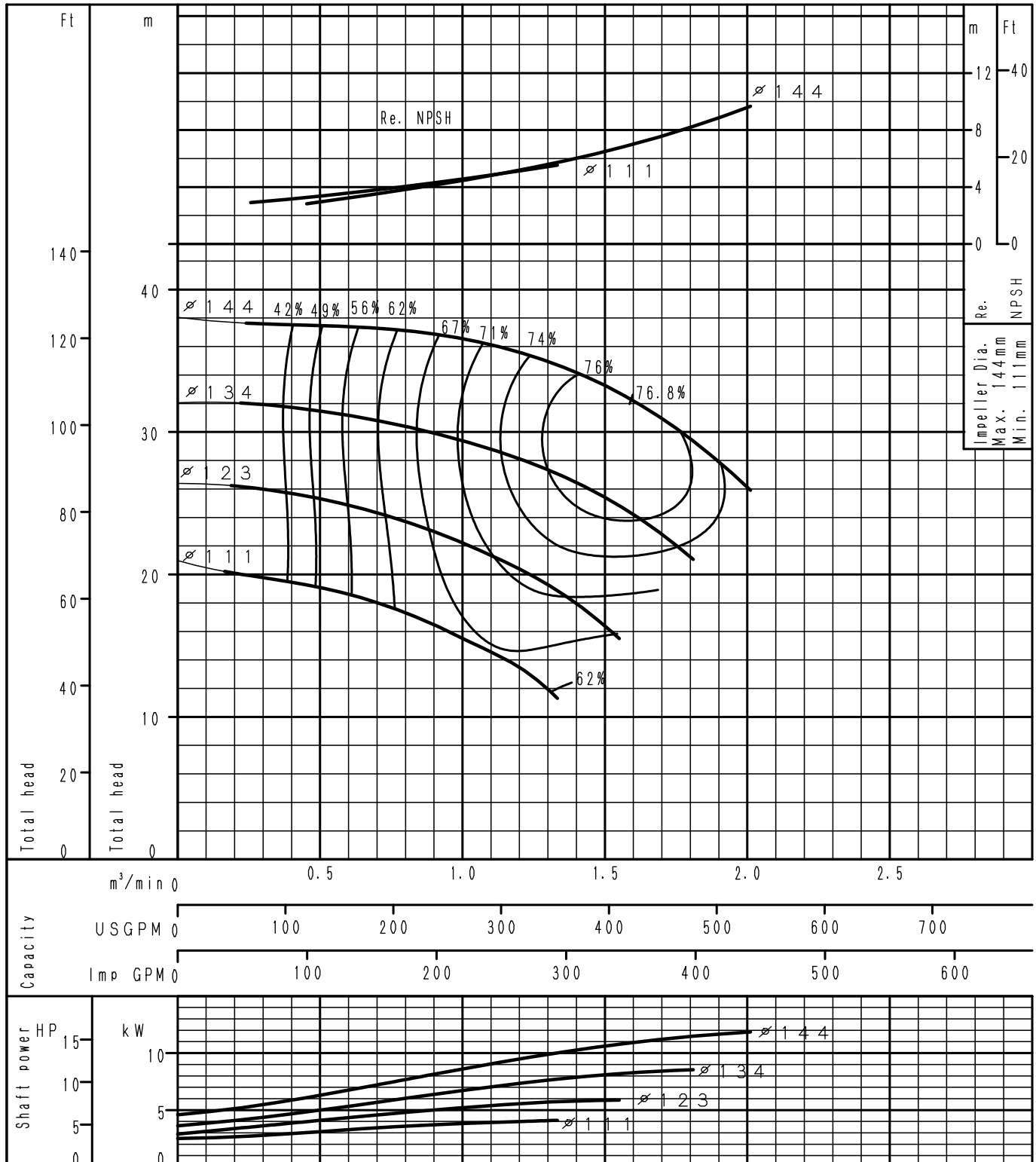
GSS40-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

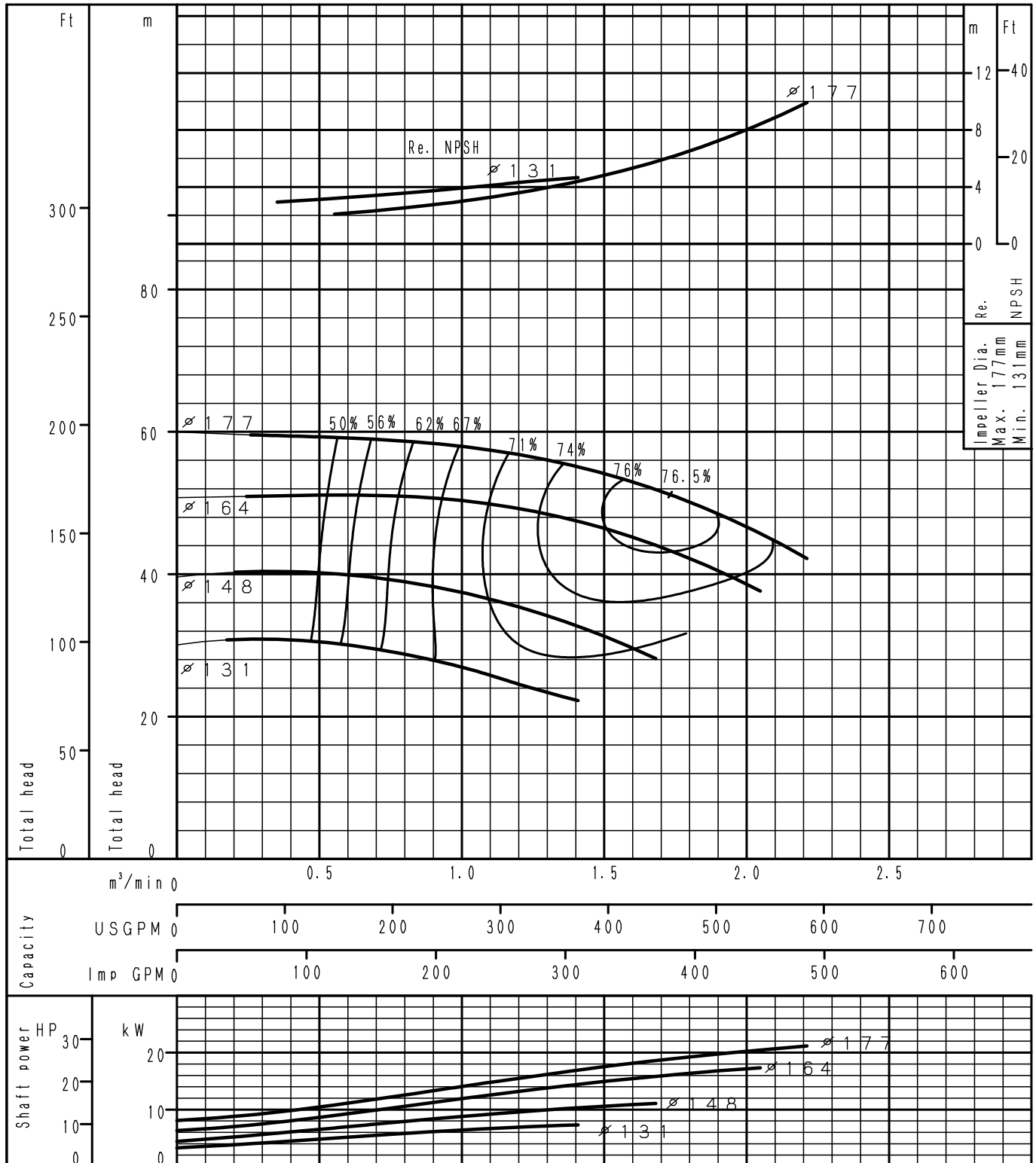
GSS50-125	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

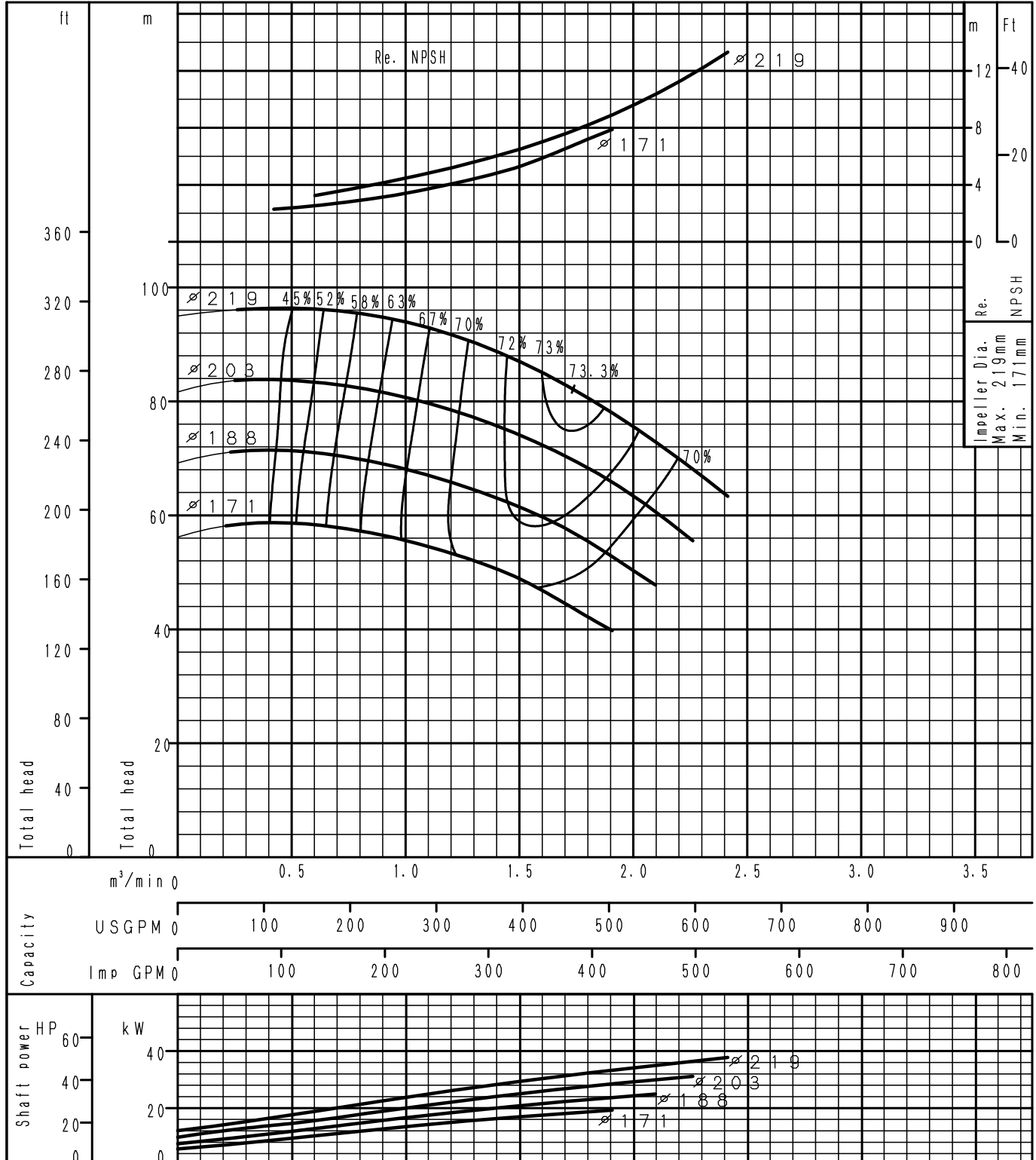
<h1 style="margin: 0;">GSS50-160</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS50-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

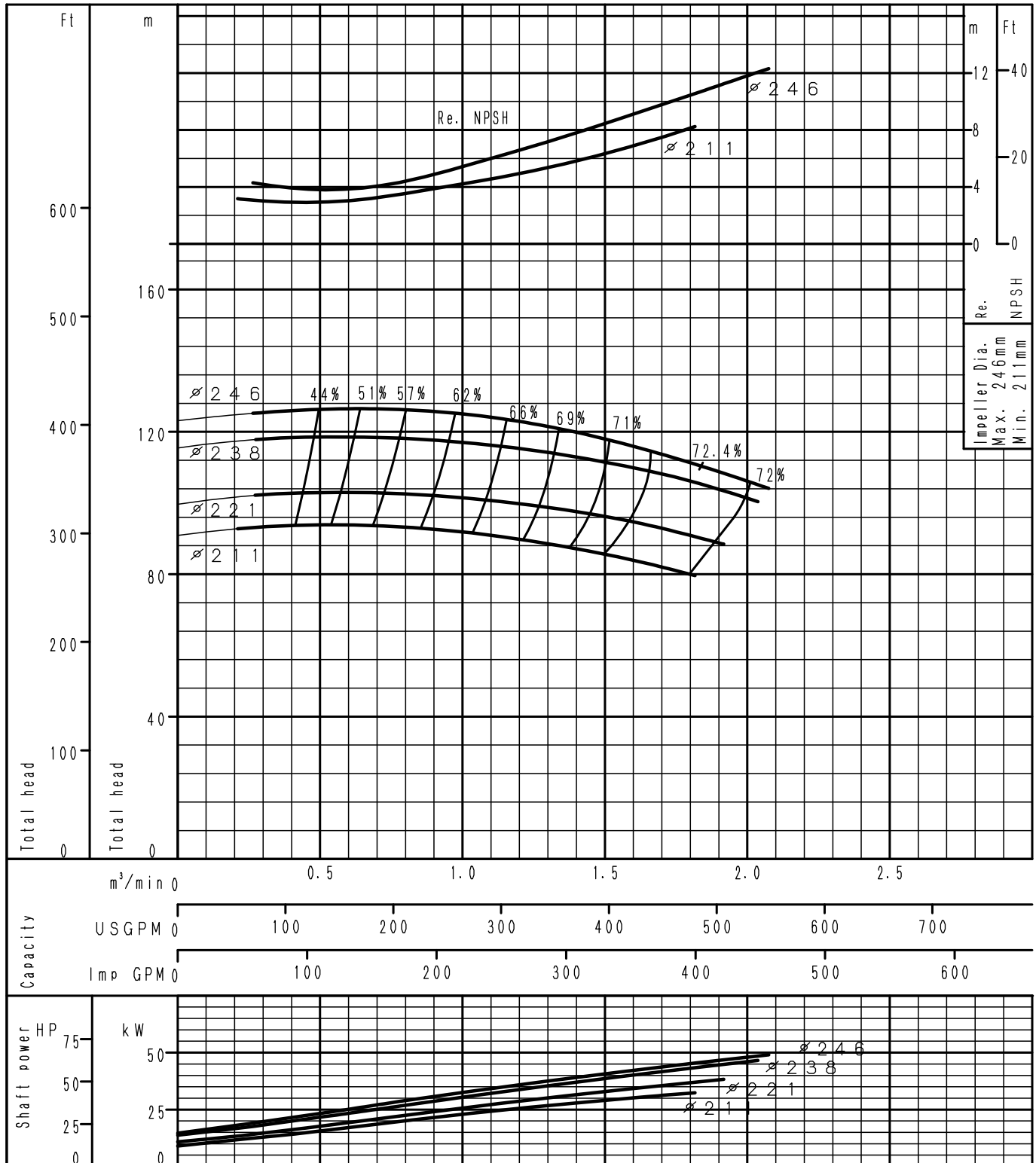


F8-1630860-01

Performance Curve

2 Poles

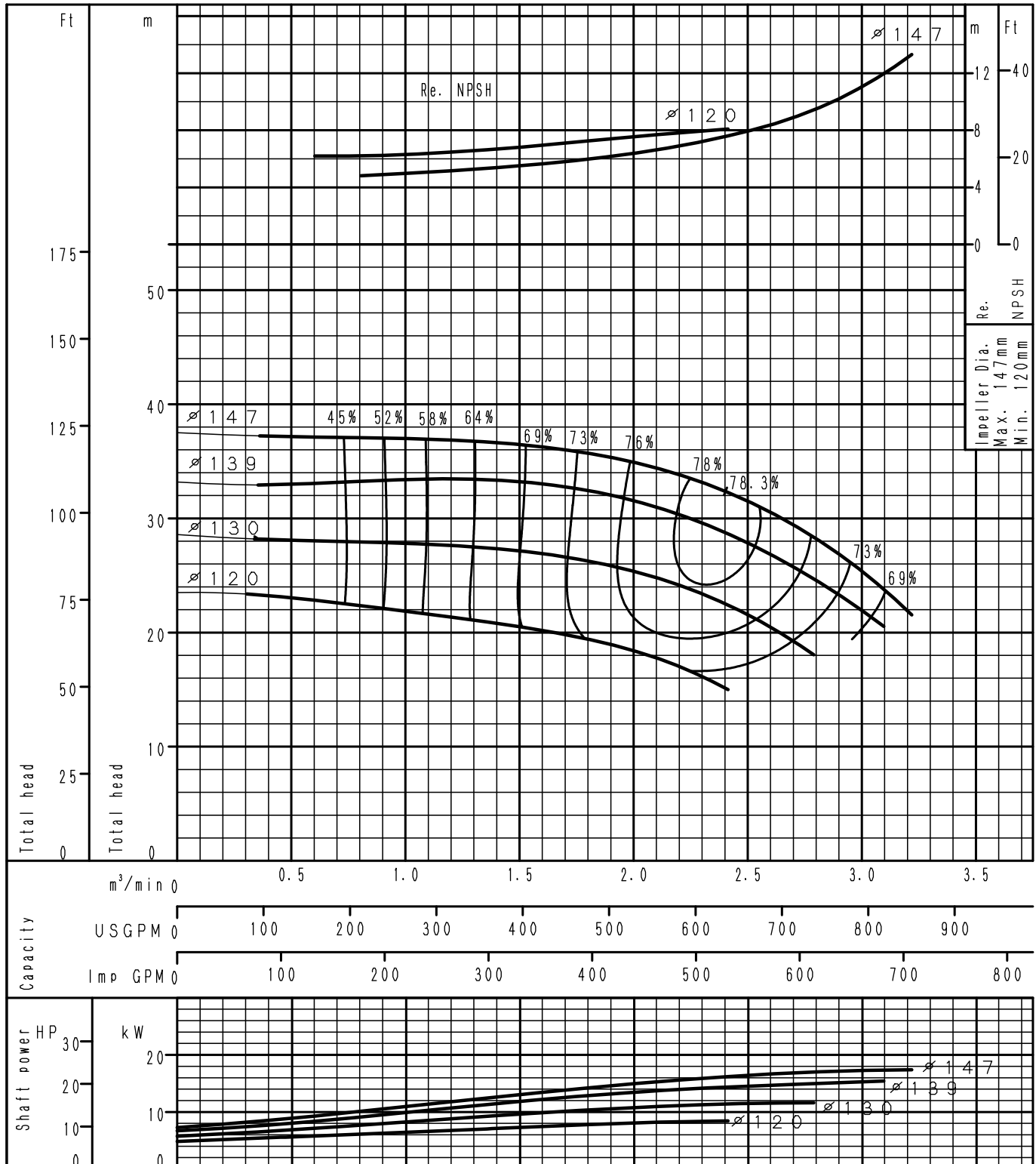
GSS50-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS65-125	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

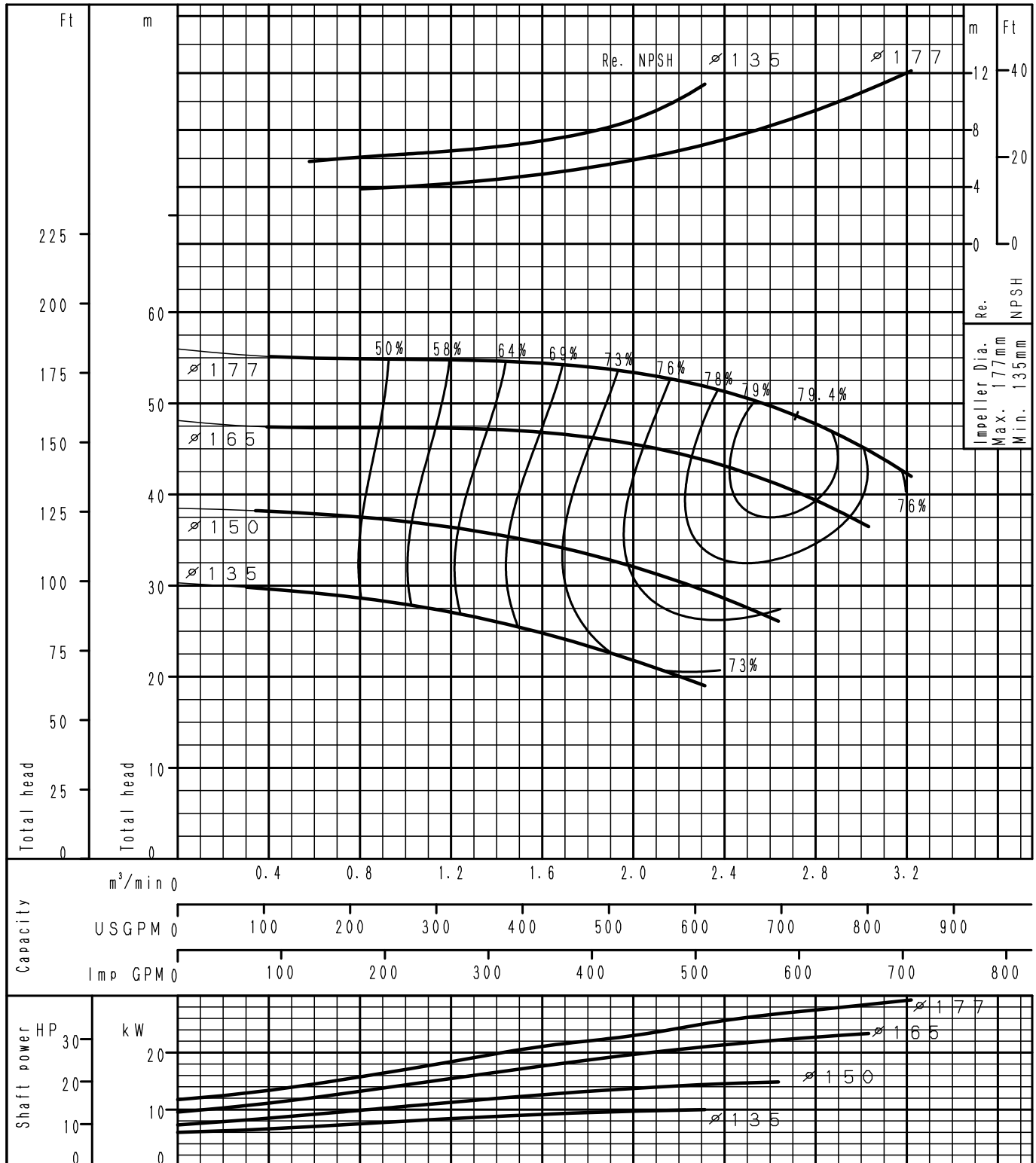


F8-1630862-01

Performance Curve

2 Poles

<h1 style="margin: 0;">GSS65-160</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

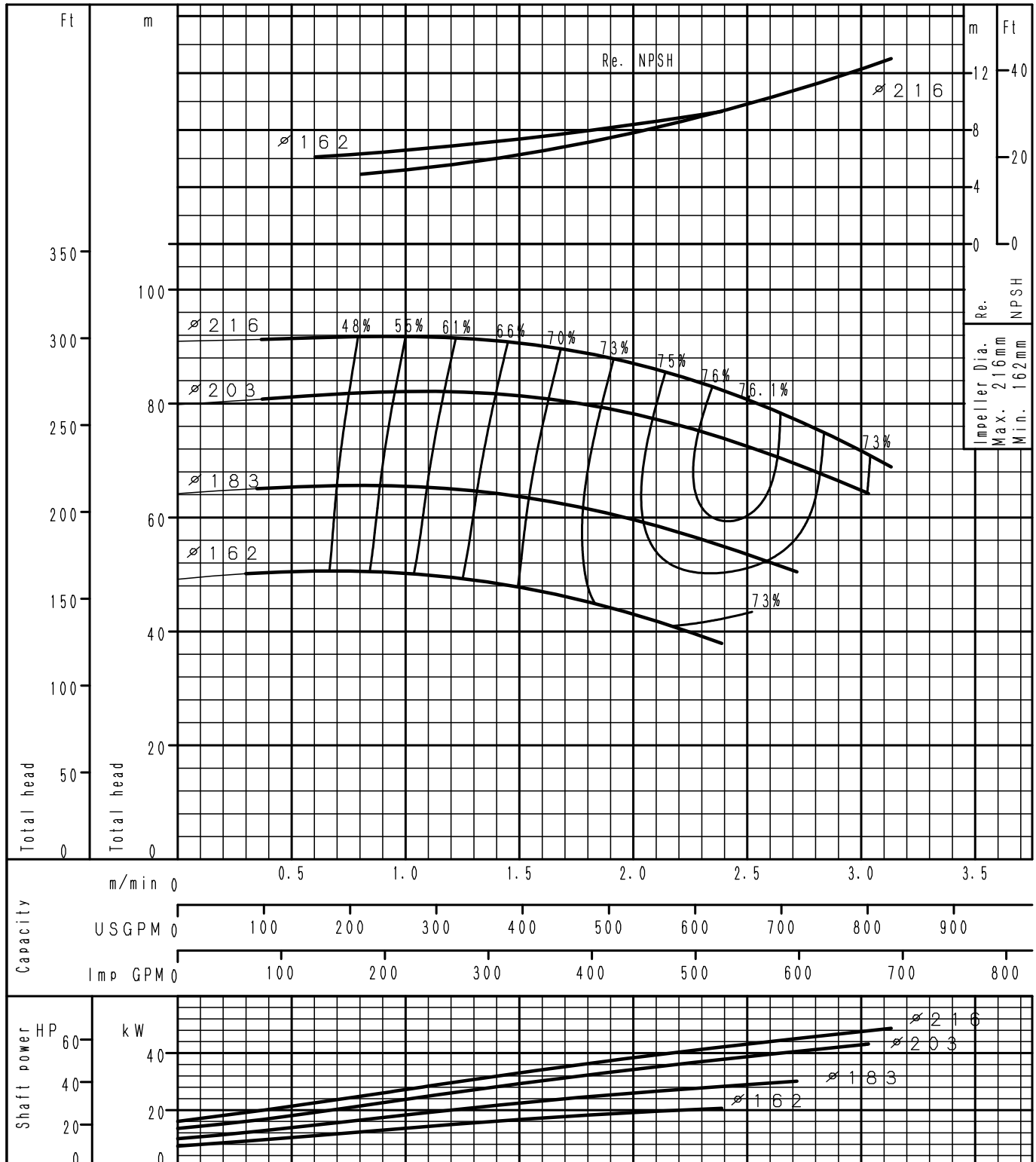




Performance Curve

2 Poles

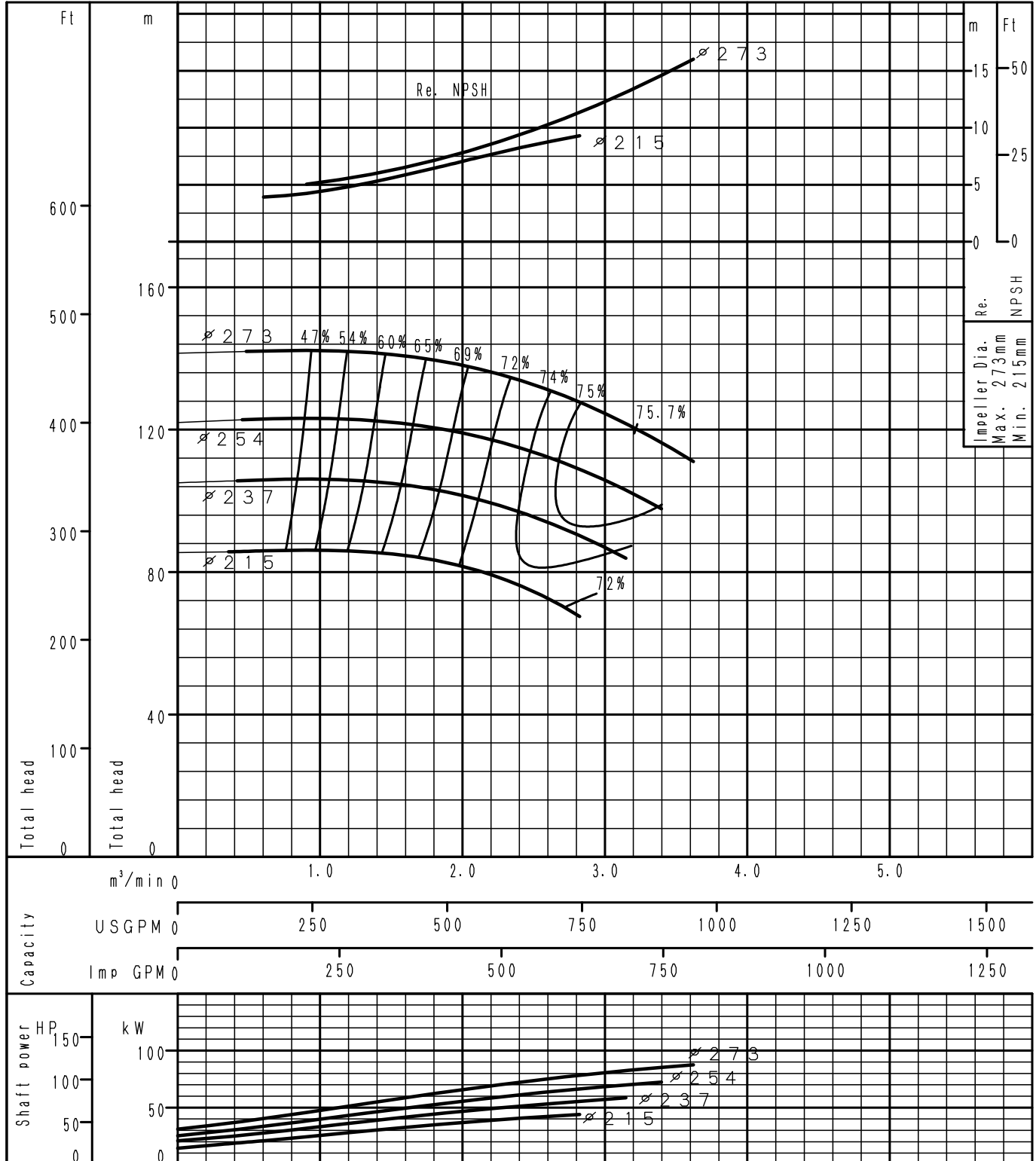
GSS65-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

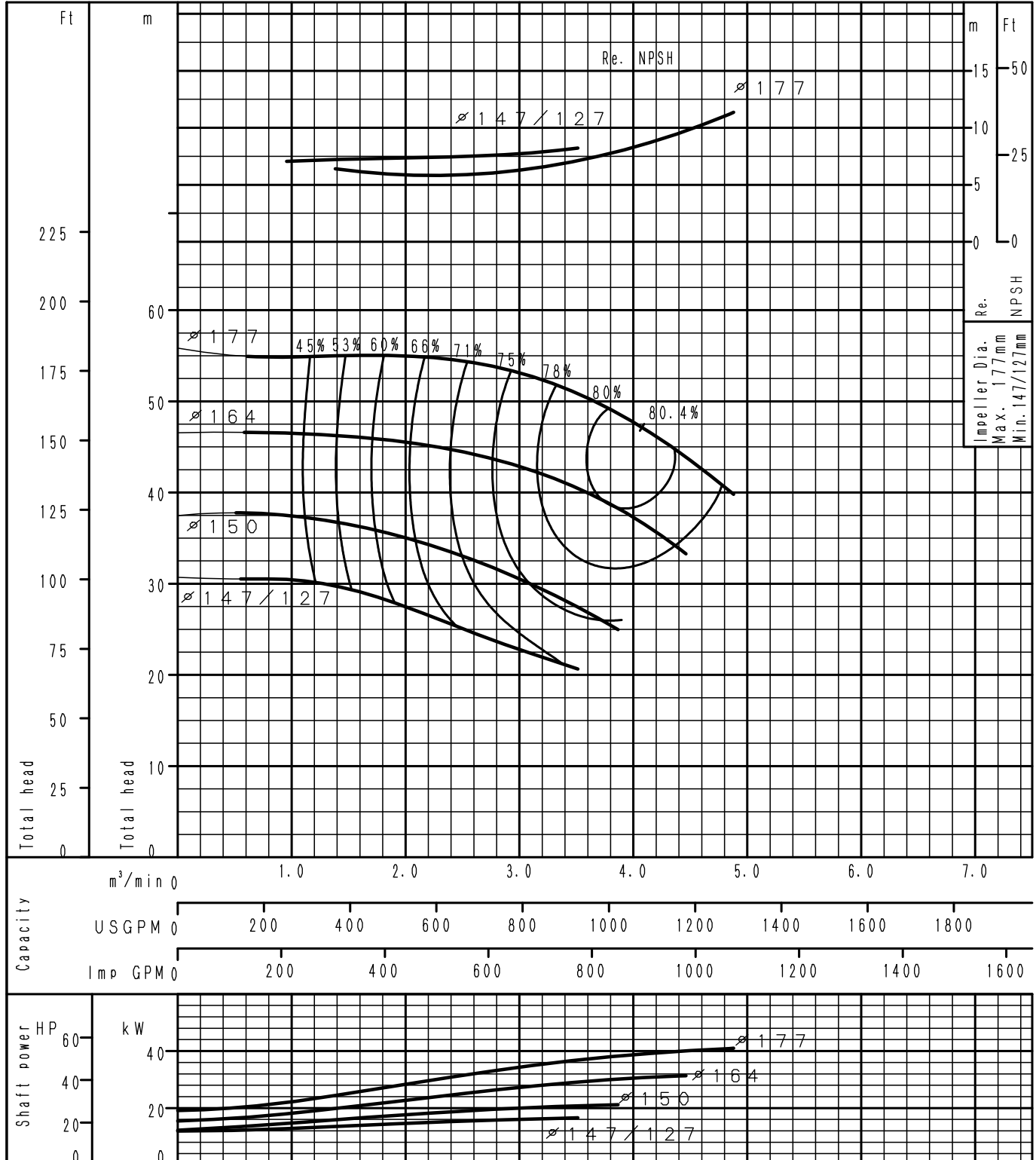
GSS65-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

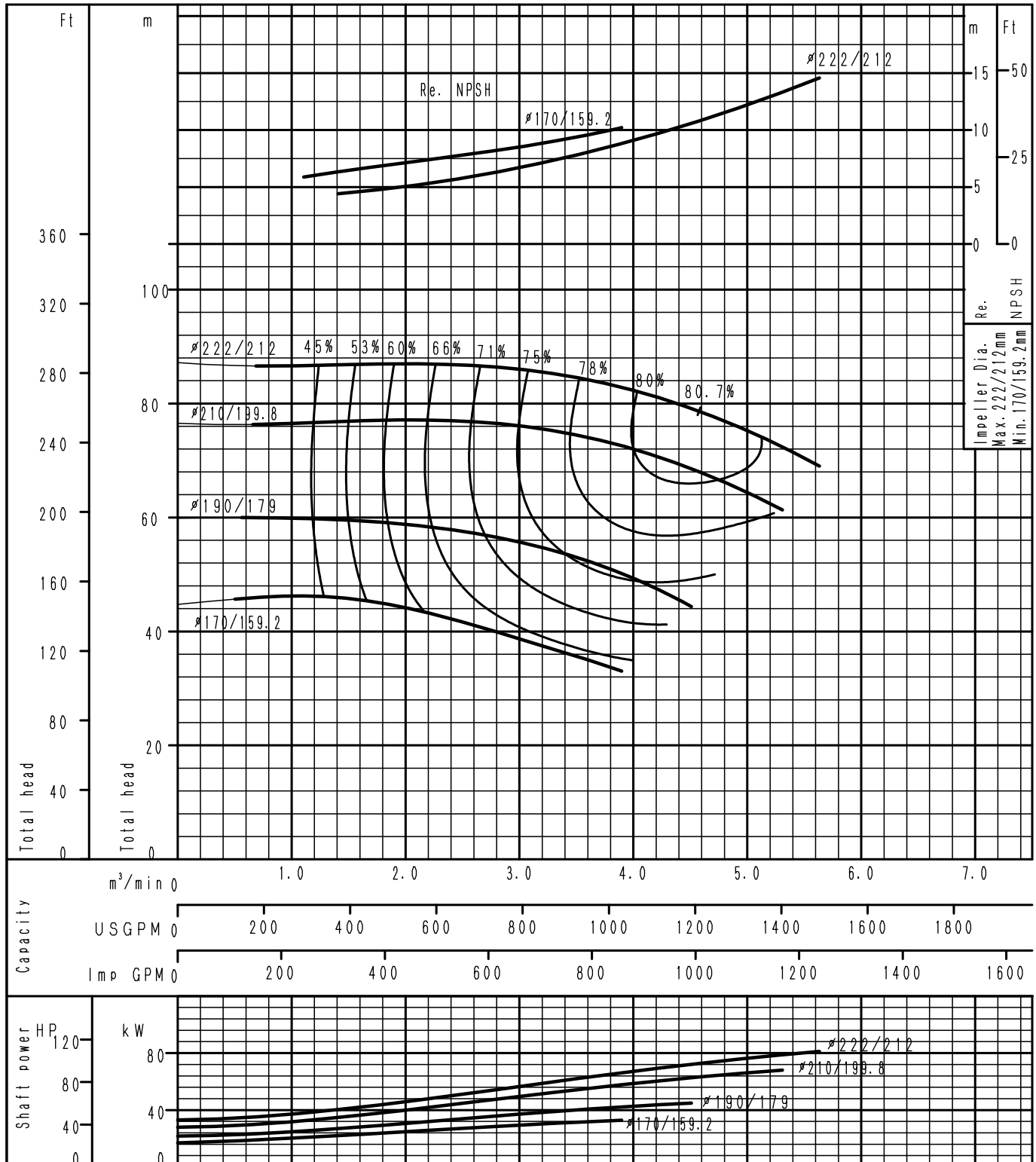
GSS80-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

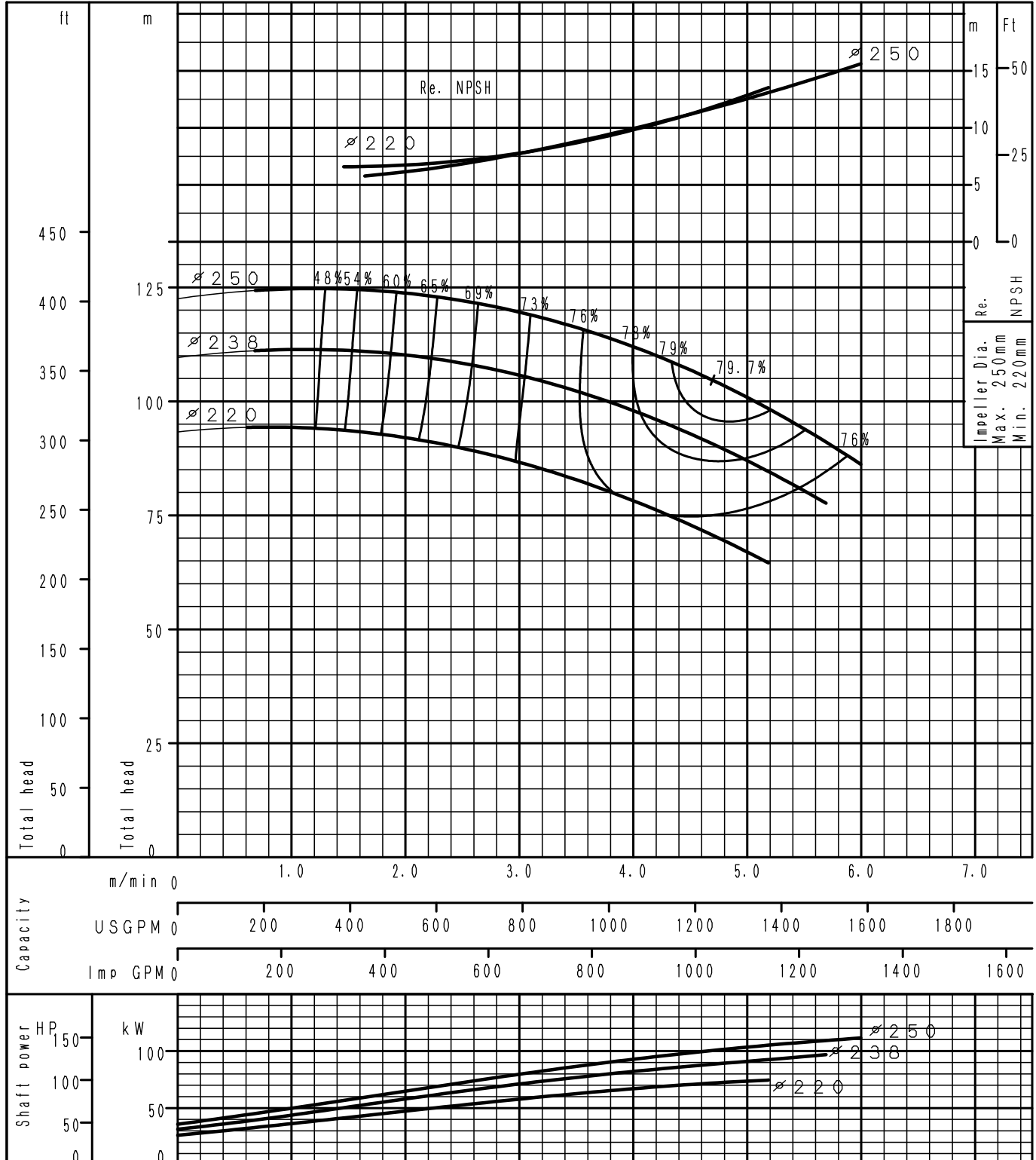
GSS80-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

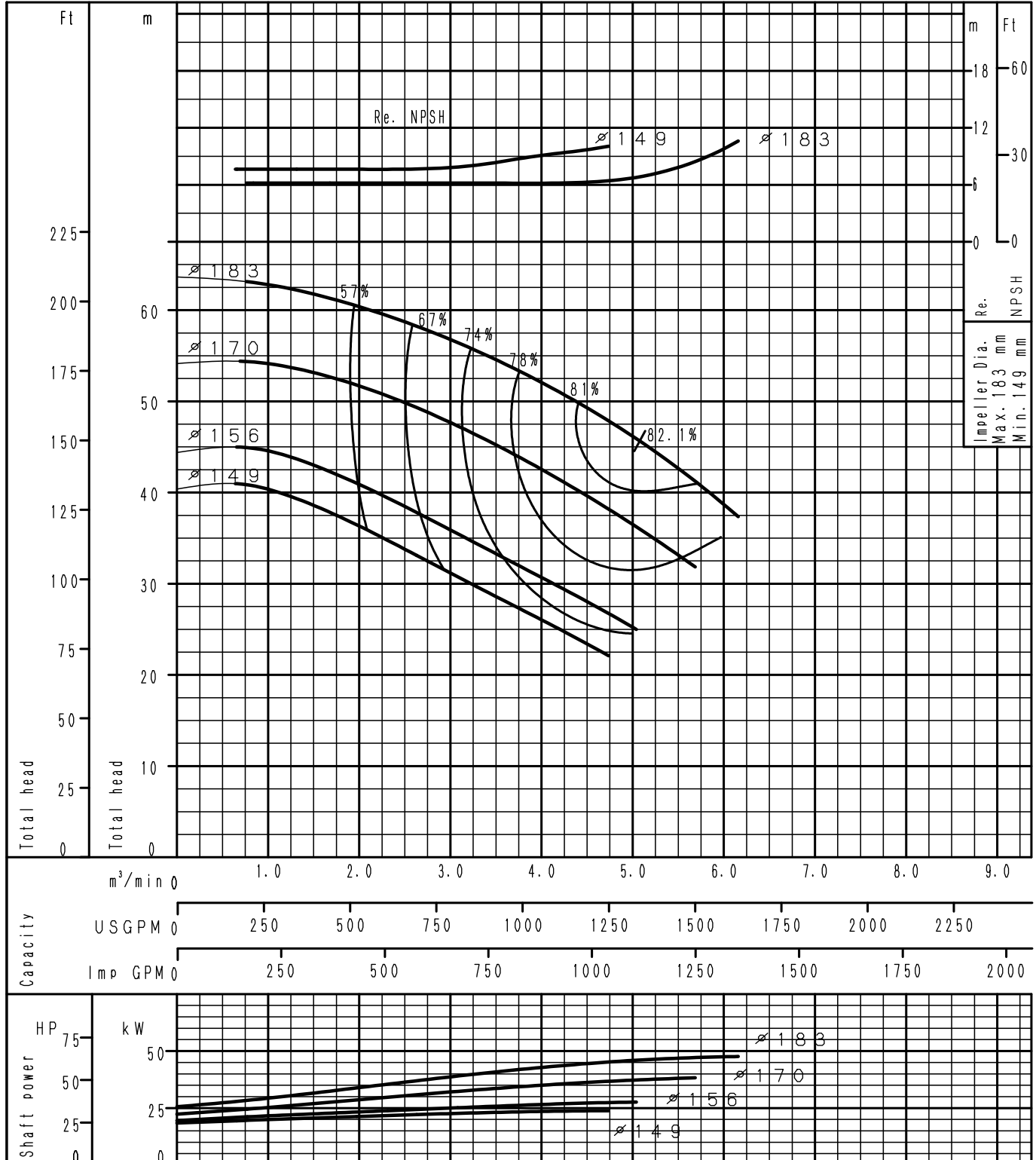
GSS80-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

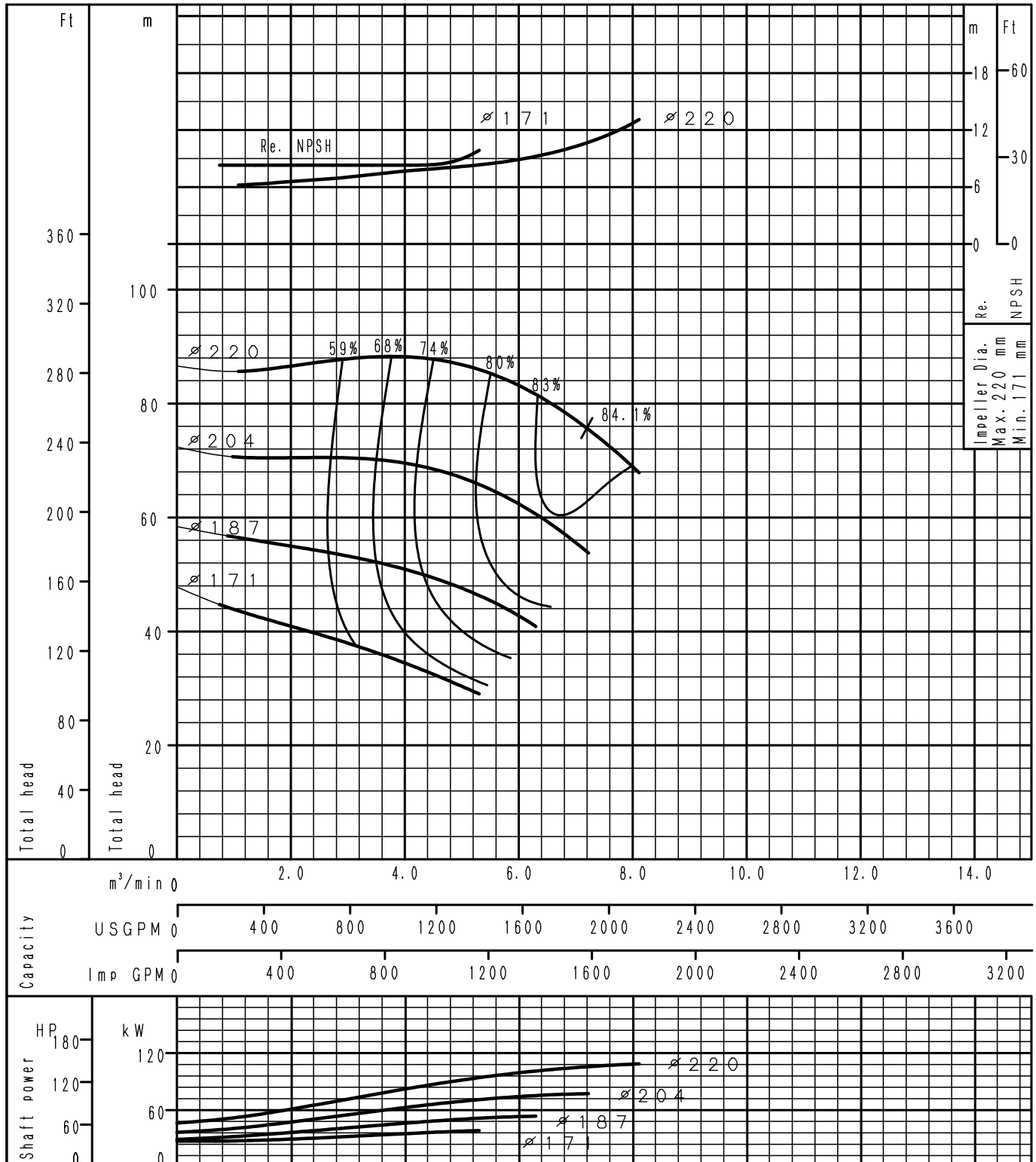
GSS100-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

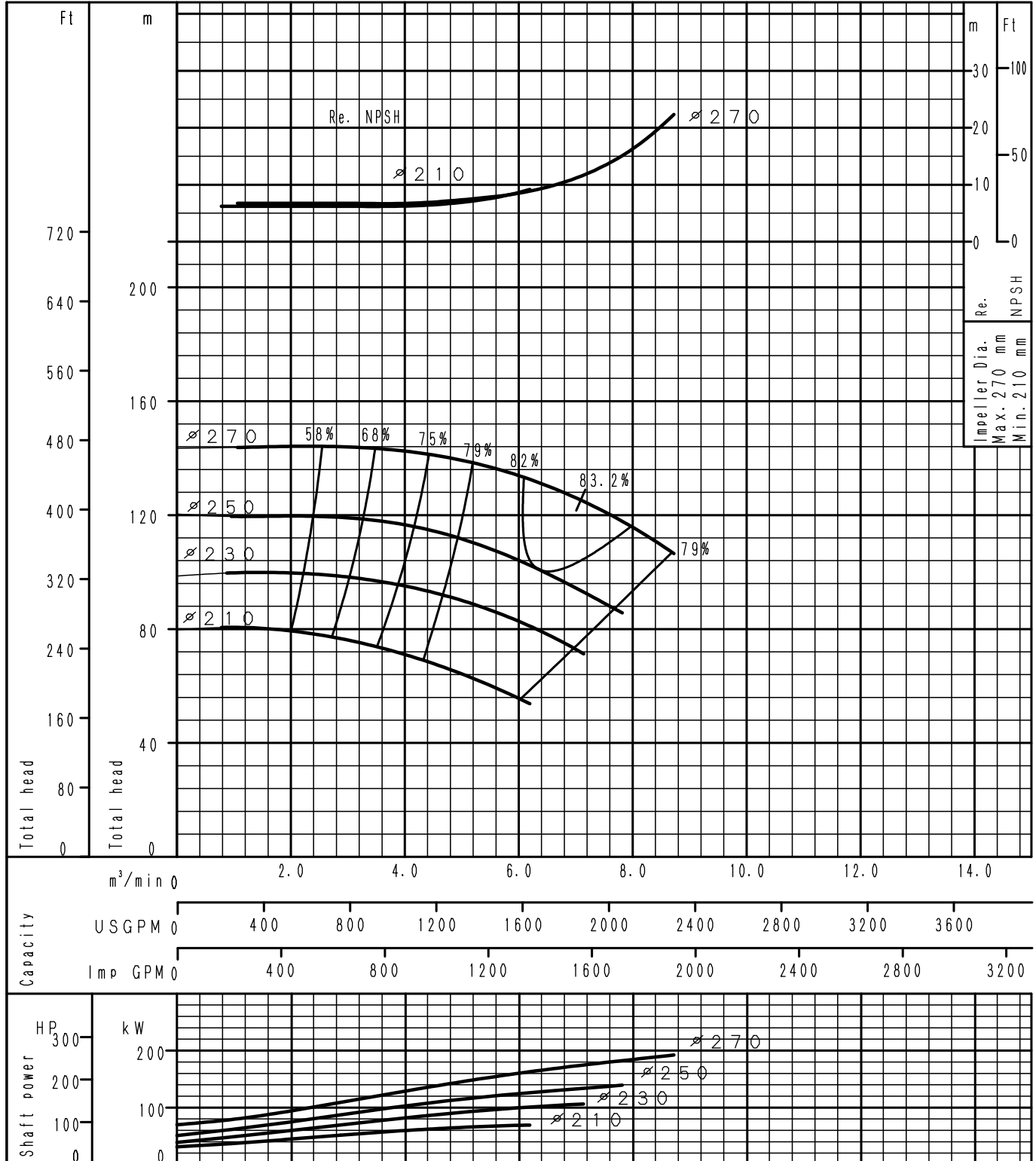
GSS100-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

GSS100-250L	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

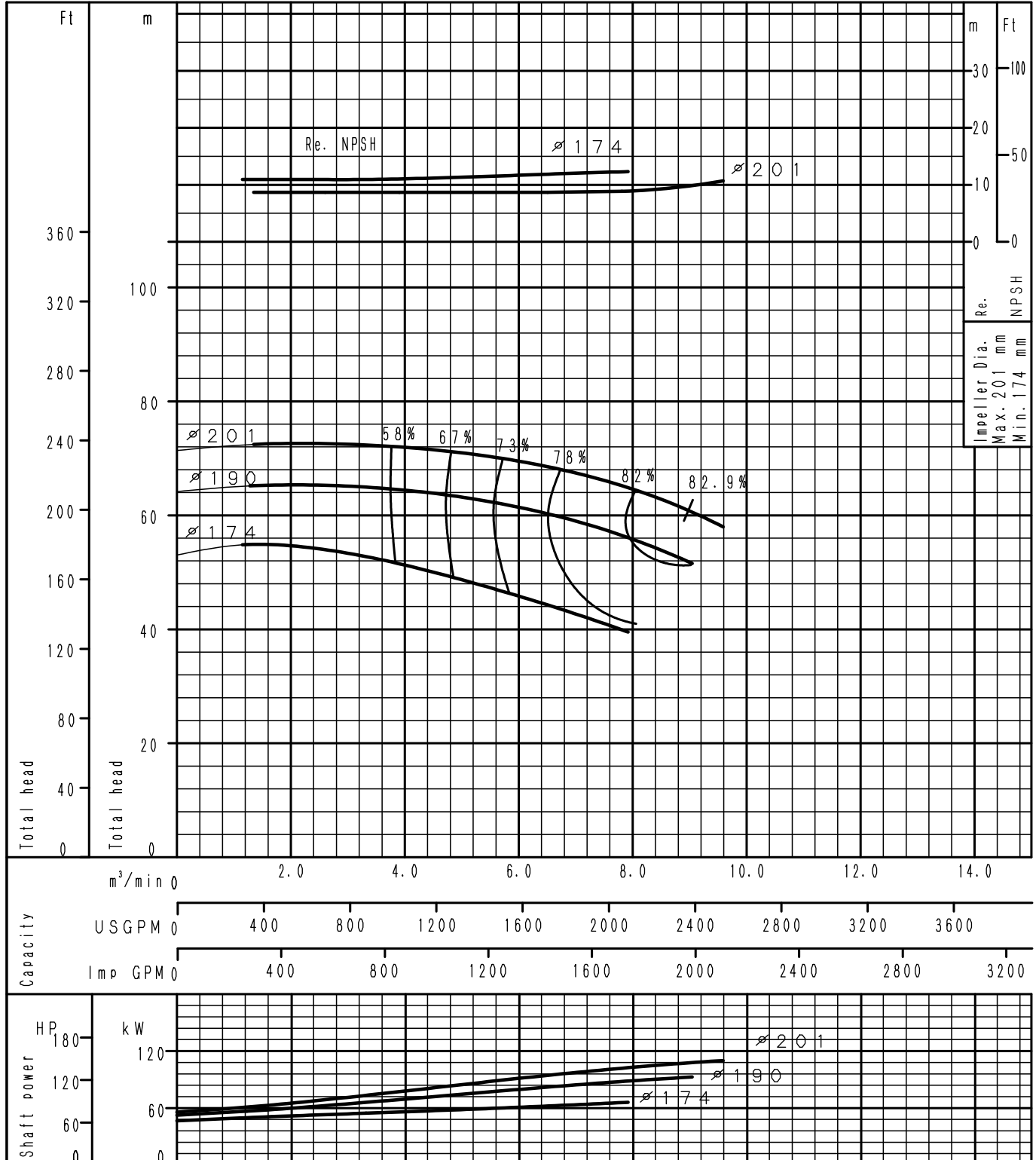




Performance Curve

2 Poles

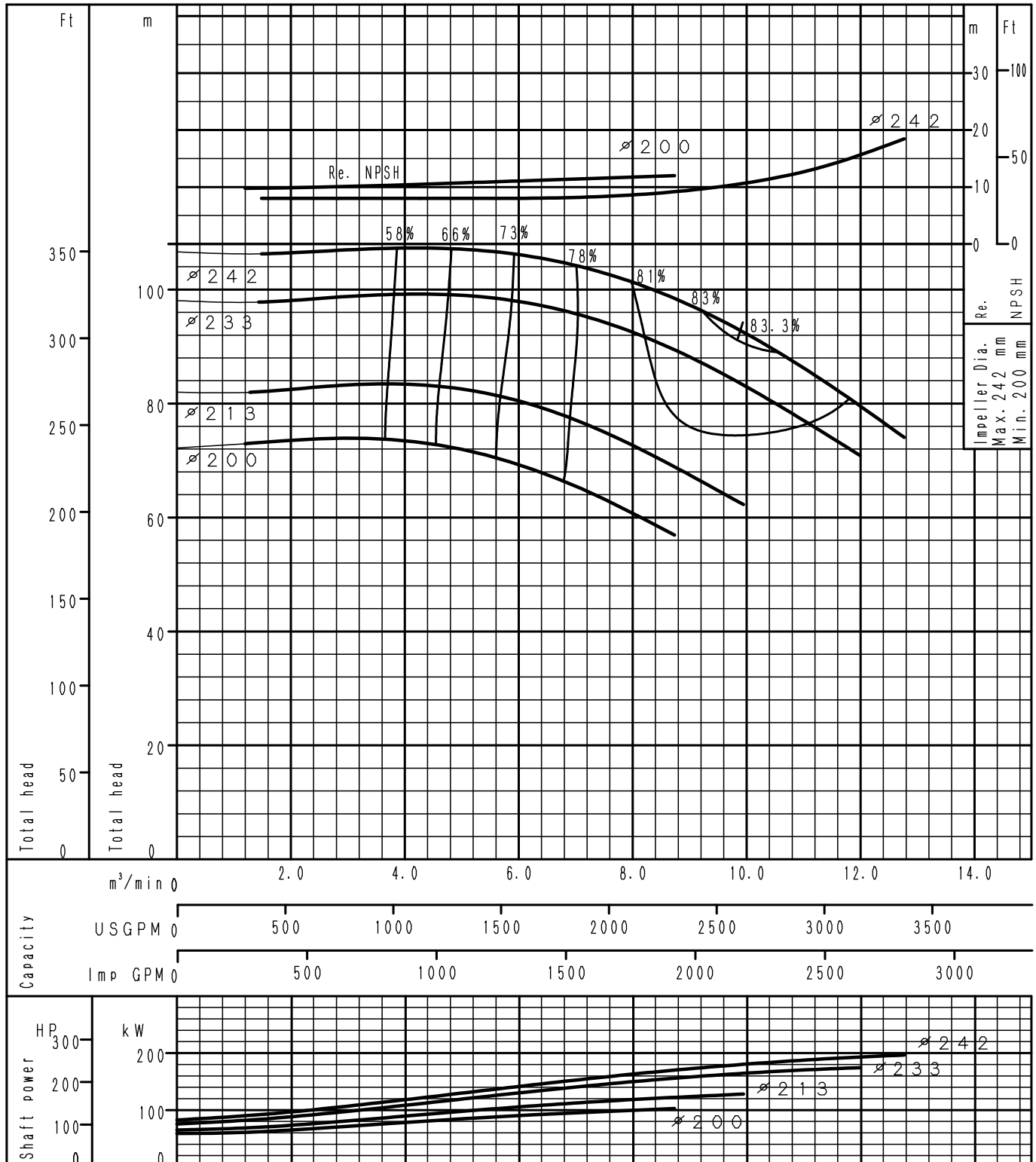
GSS125-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

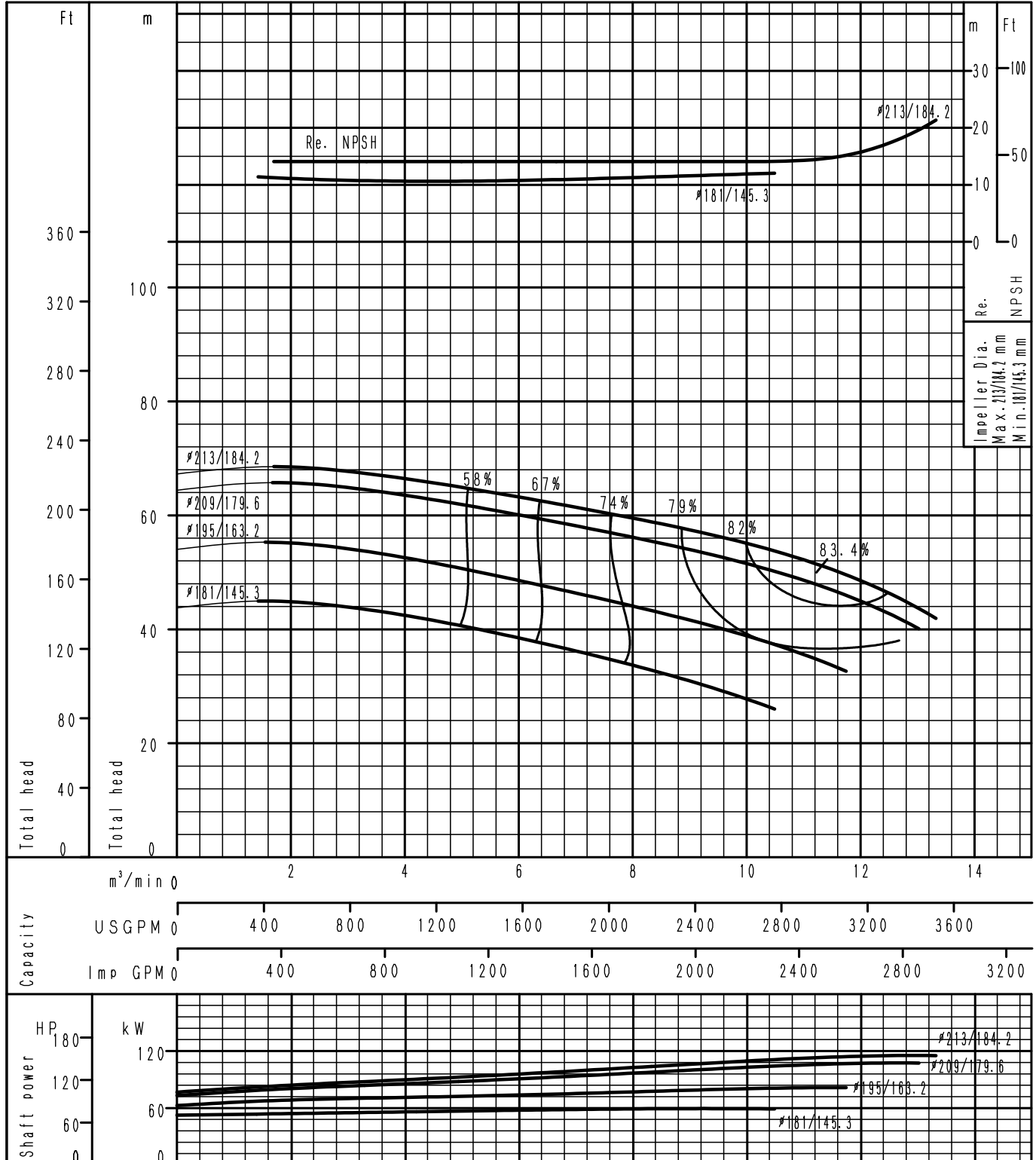
GSS125-250L	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

2 Poles

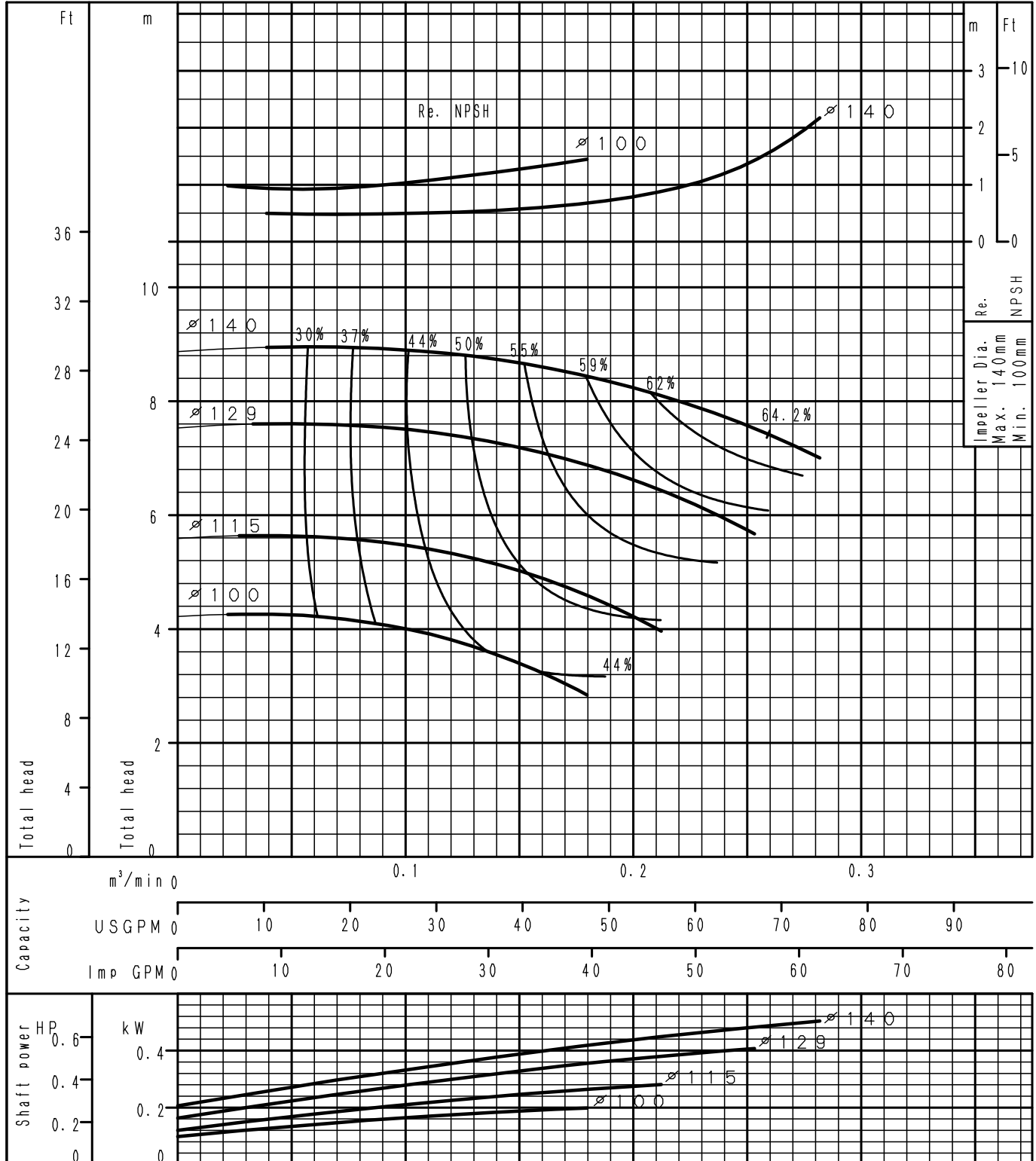
GSS150-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 3500 min <sup>-1</sup> )	DENSITY= 1.0 kg/ℓ , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

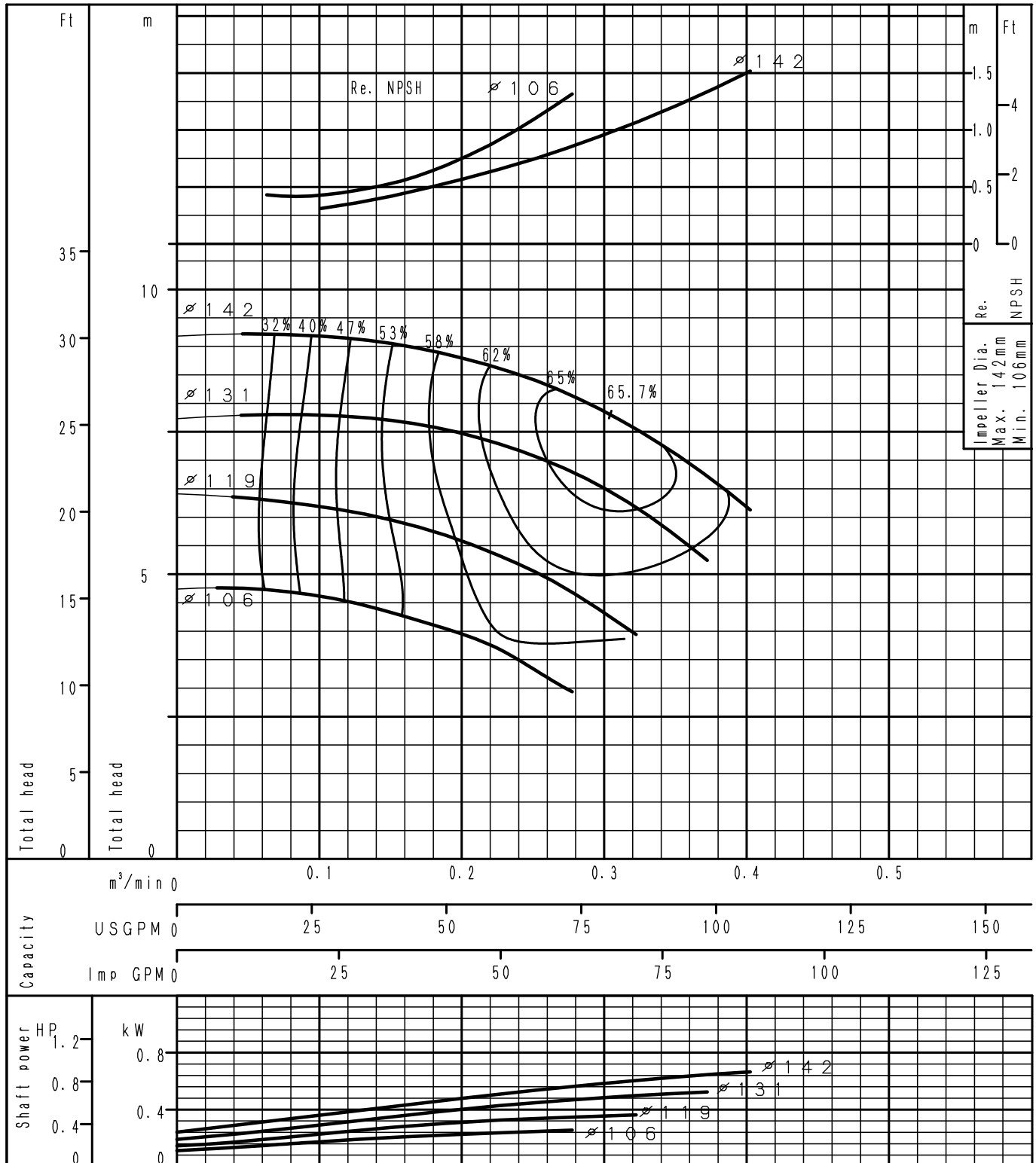
GSS32-125.1	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

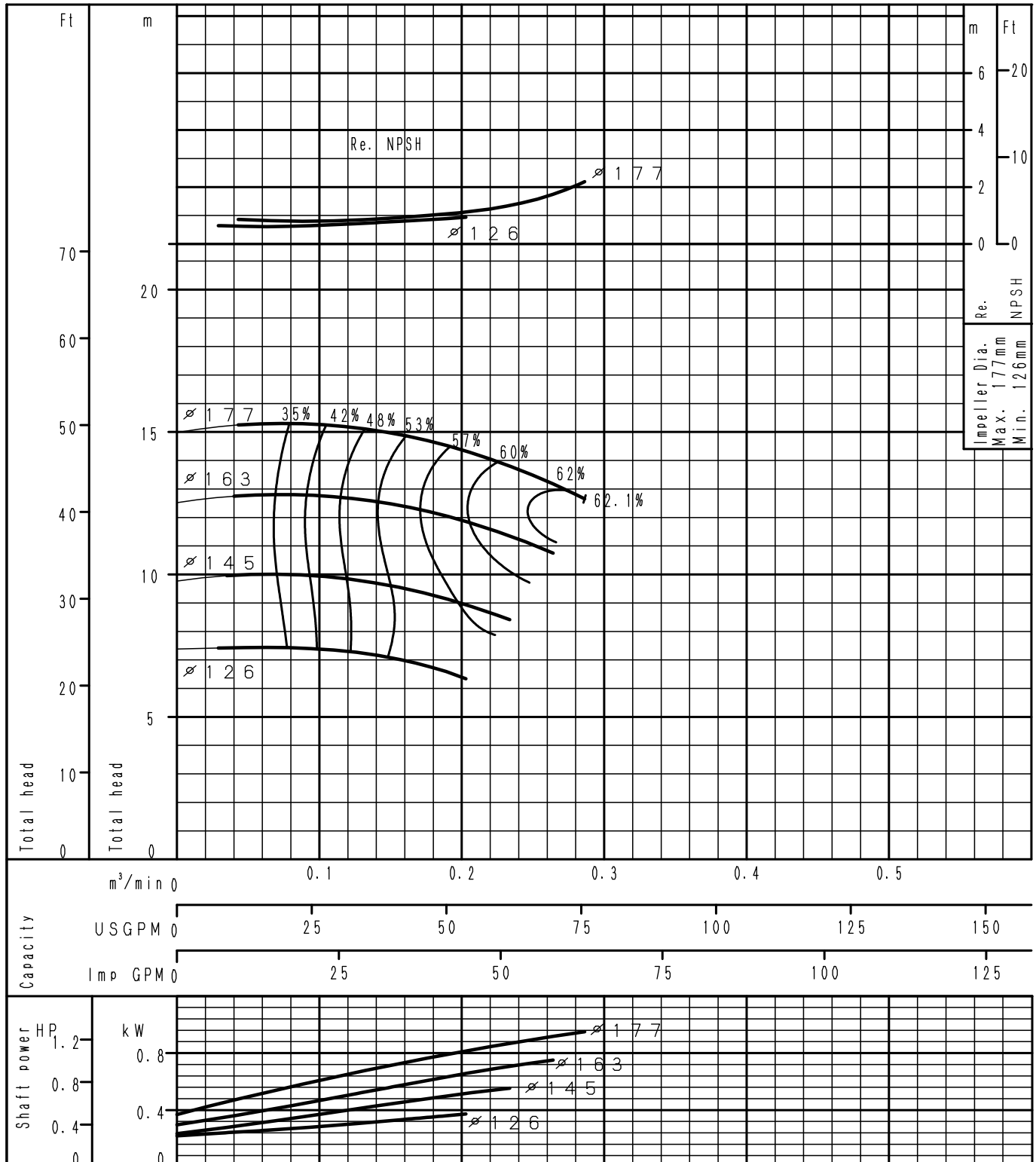
GSS32-125	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

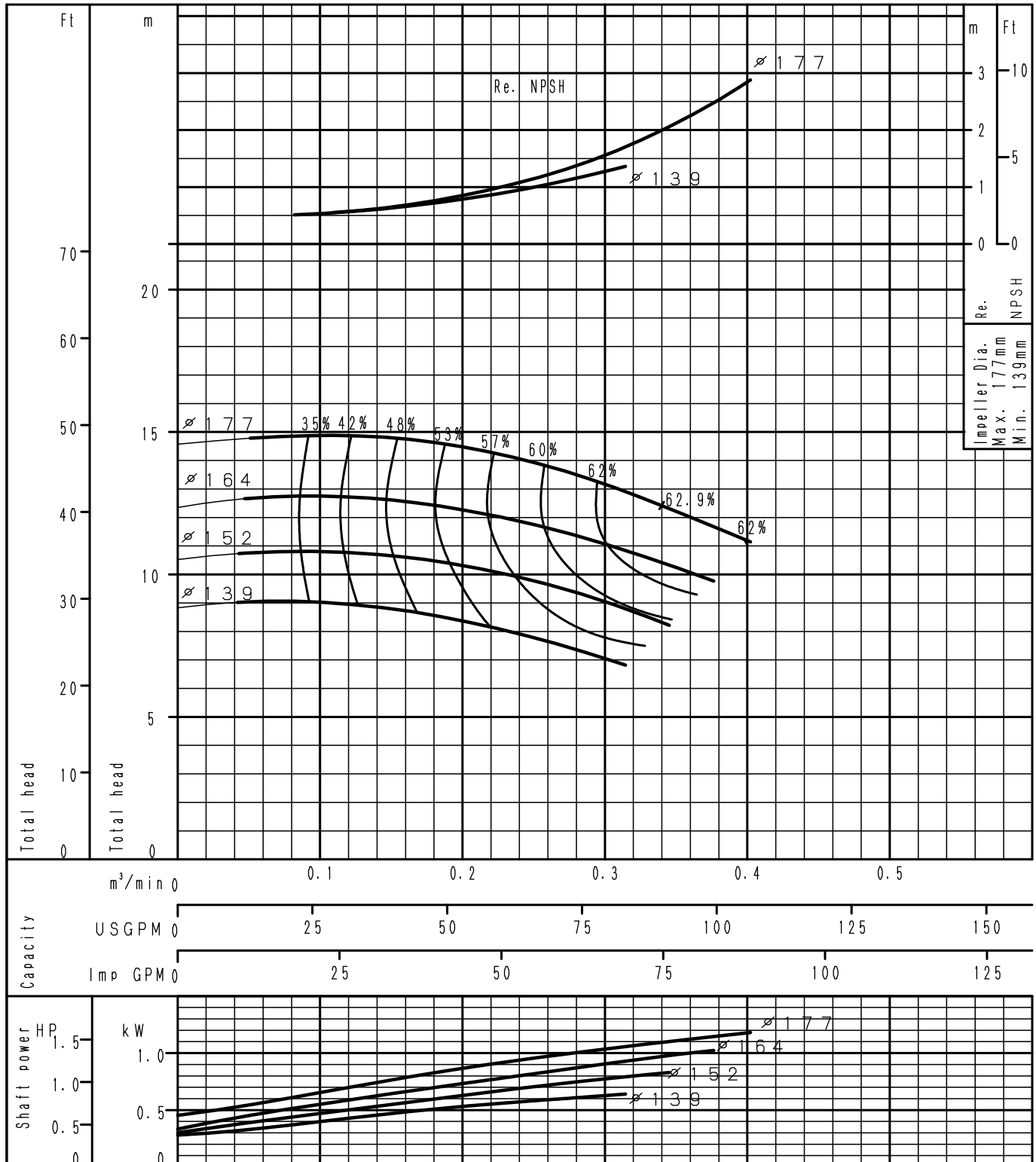
GSS32-160.1	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

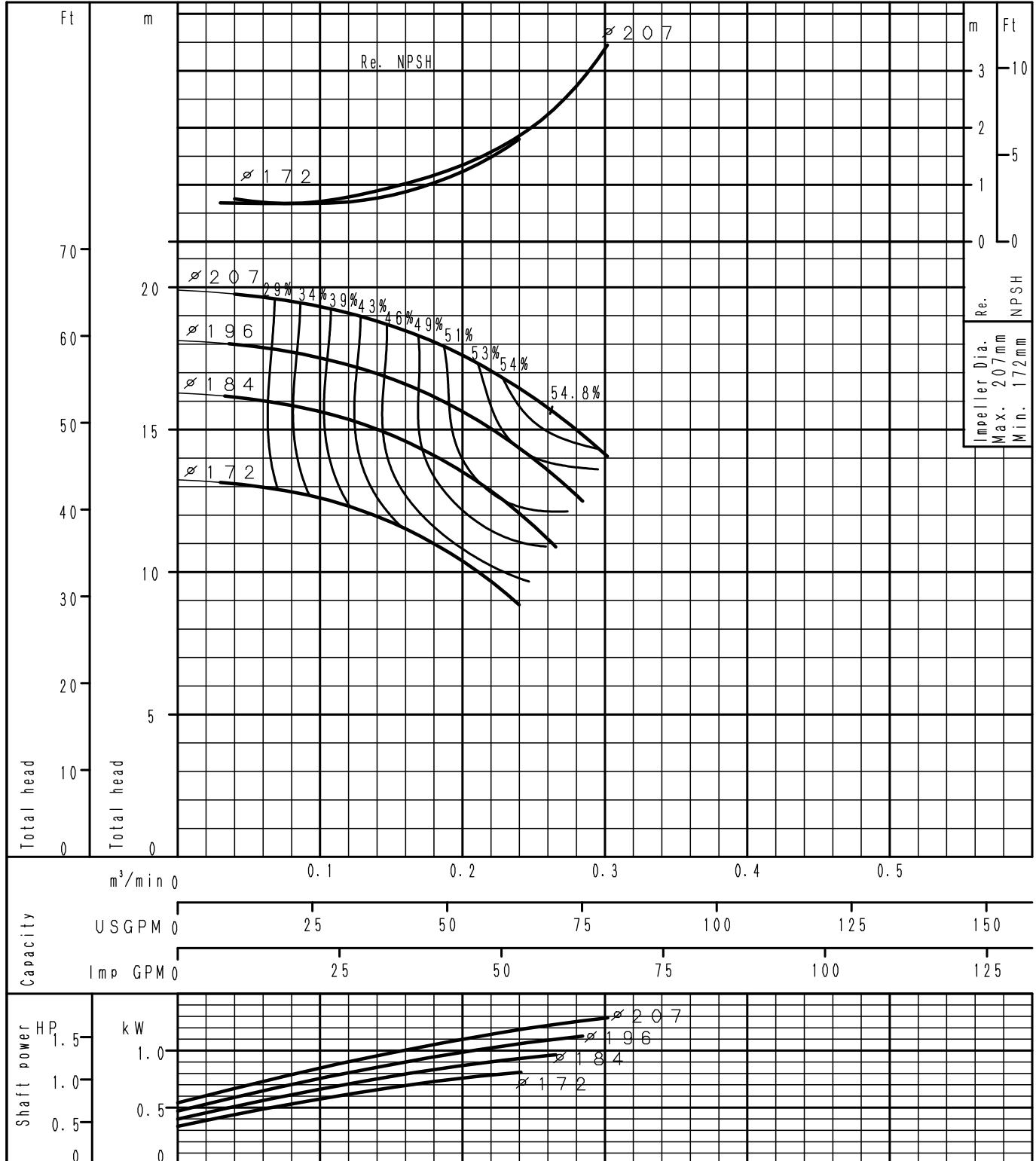
GSS32-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS32-200.1	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

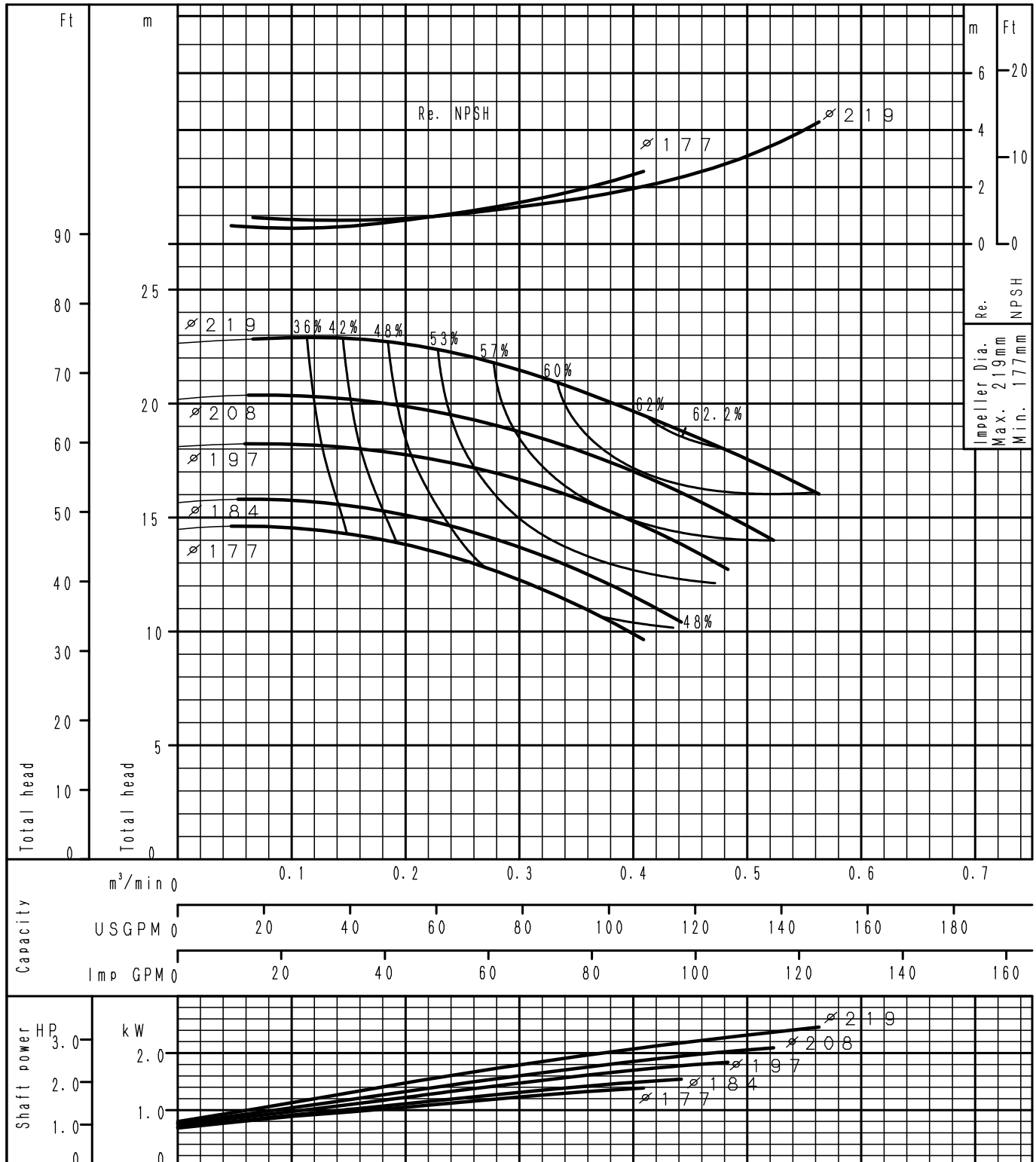




Performance Curve

4 Poles

GSS32-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



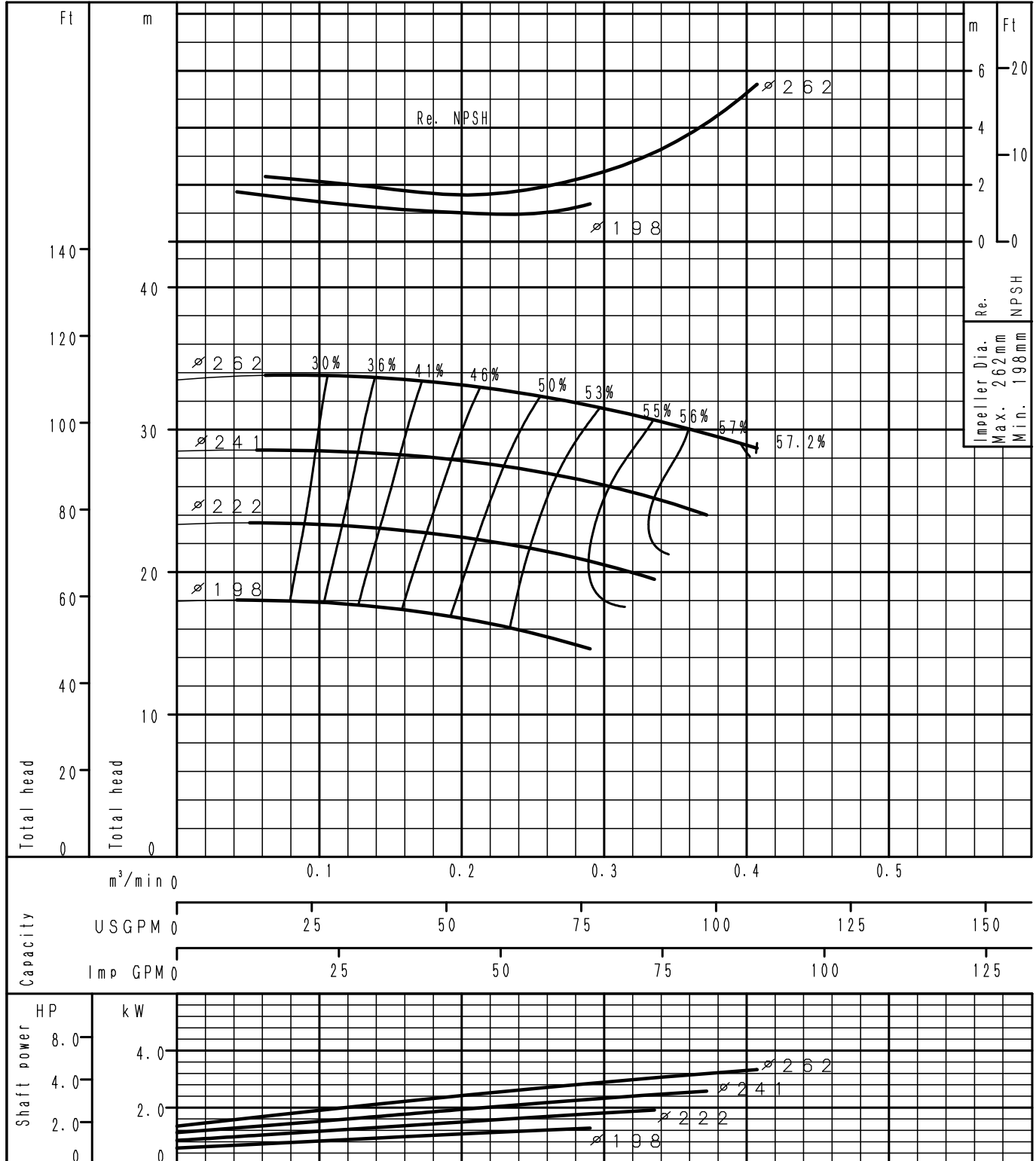
F8-1630874-01



Performance Curve

4 Poles

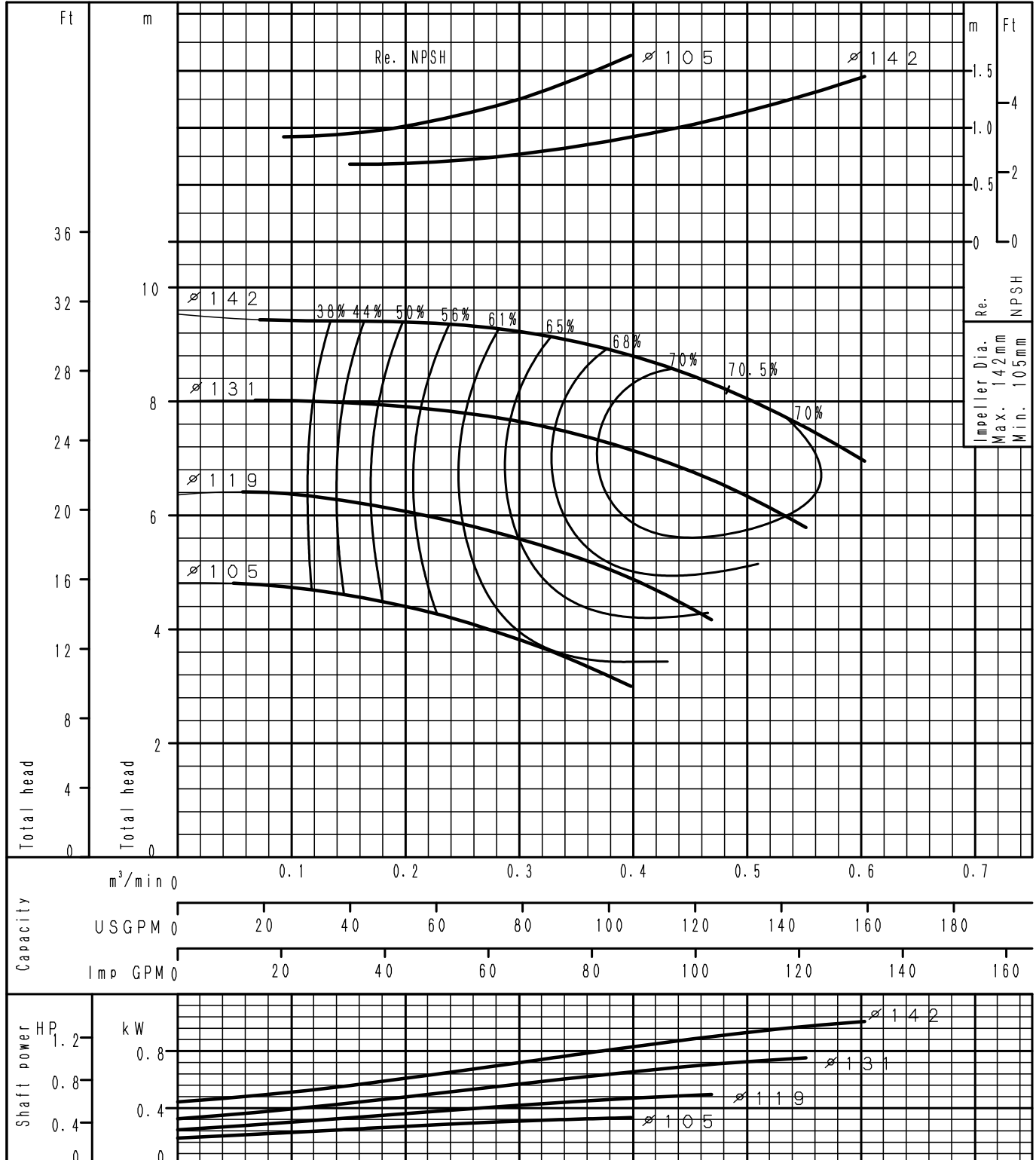
GSS32-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

<h1 style="margin: 0;">GSS40-125</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



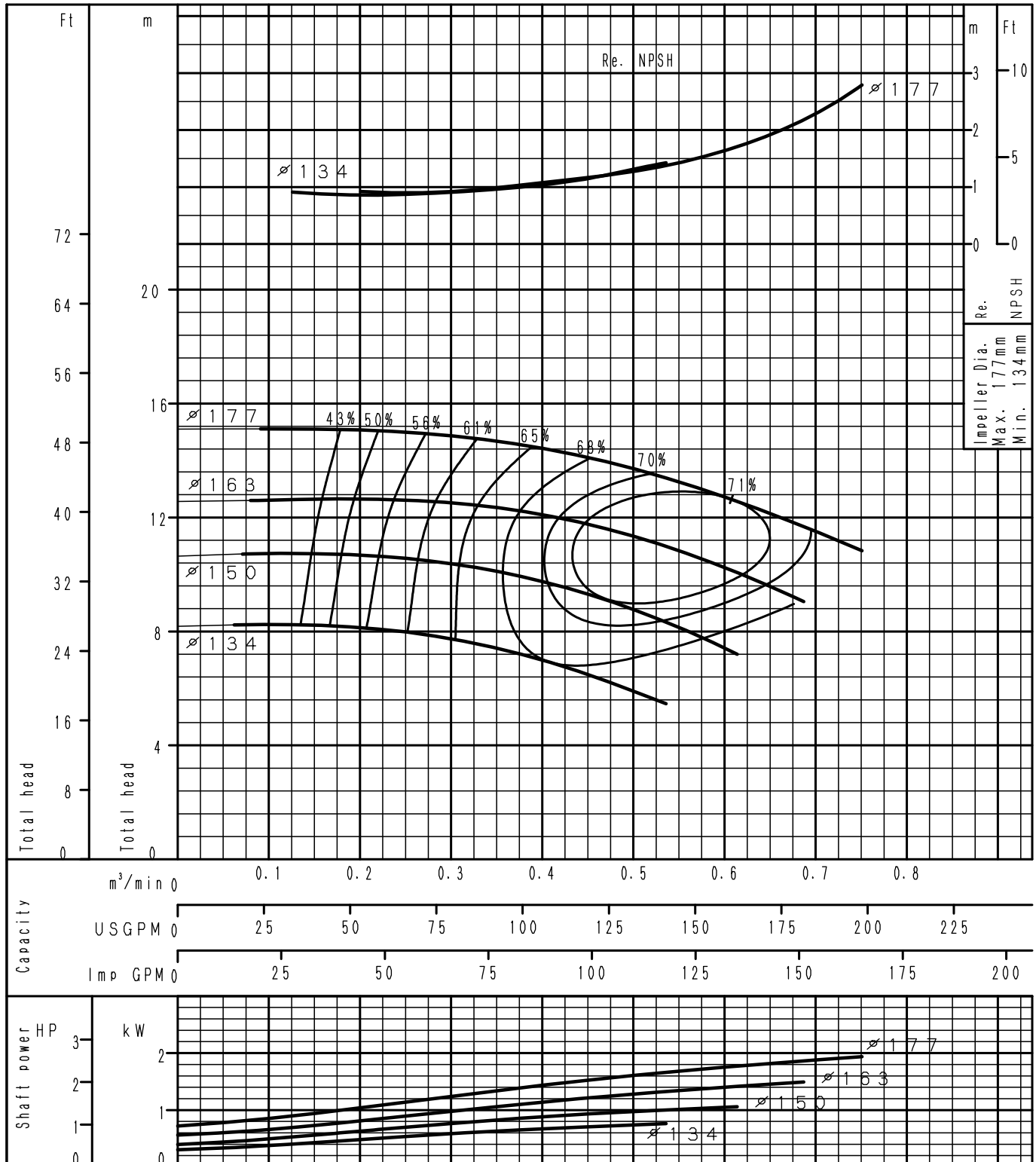
F8-1630876-01



Performance Curve

4 Poles

GSS40-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

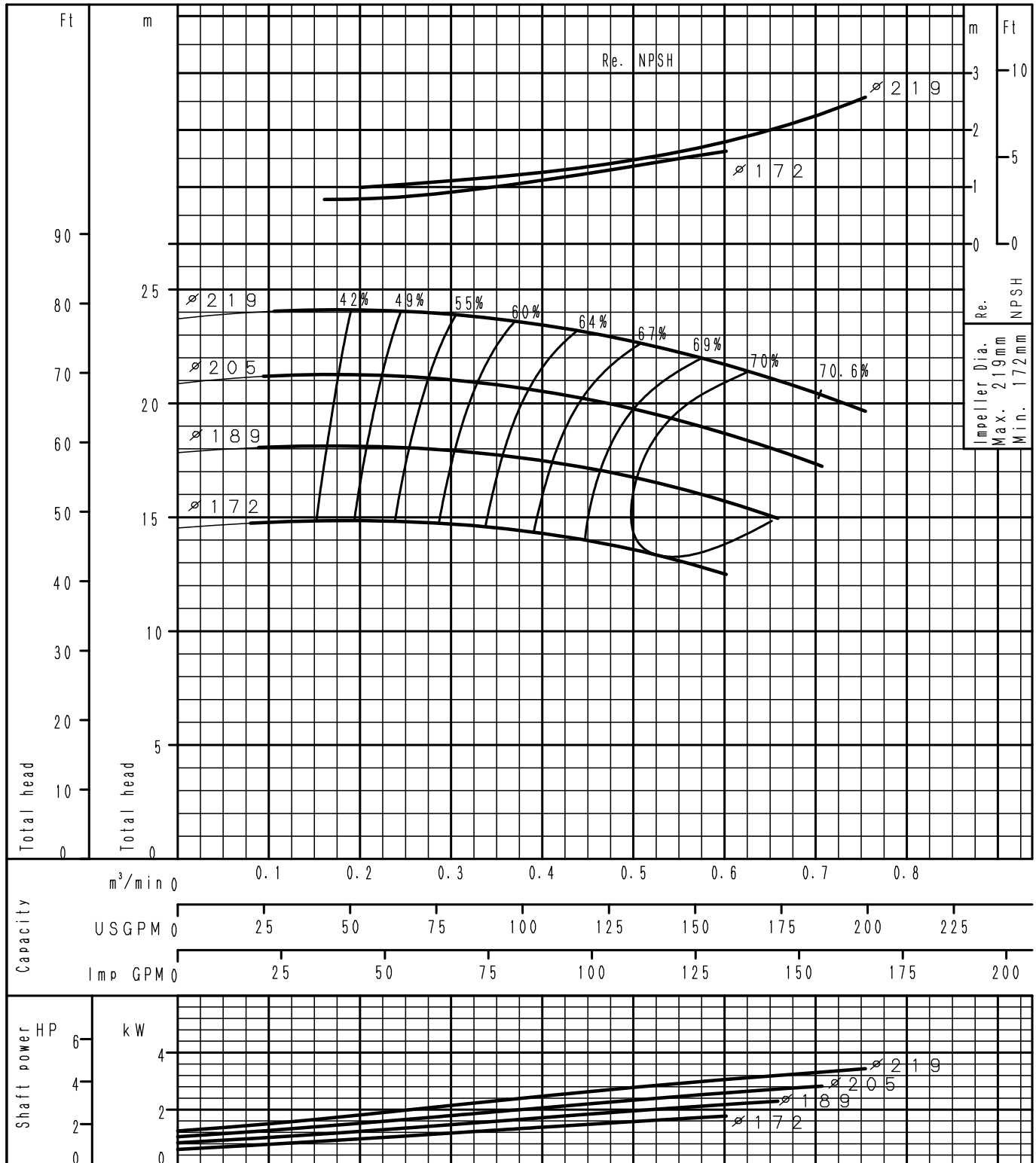


F8-1630877-01

Performance Curve

4 Poles

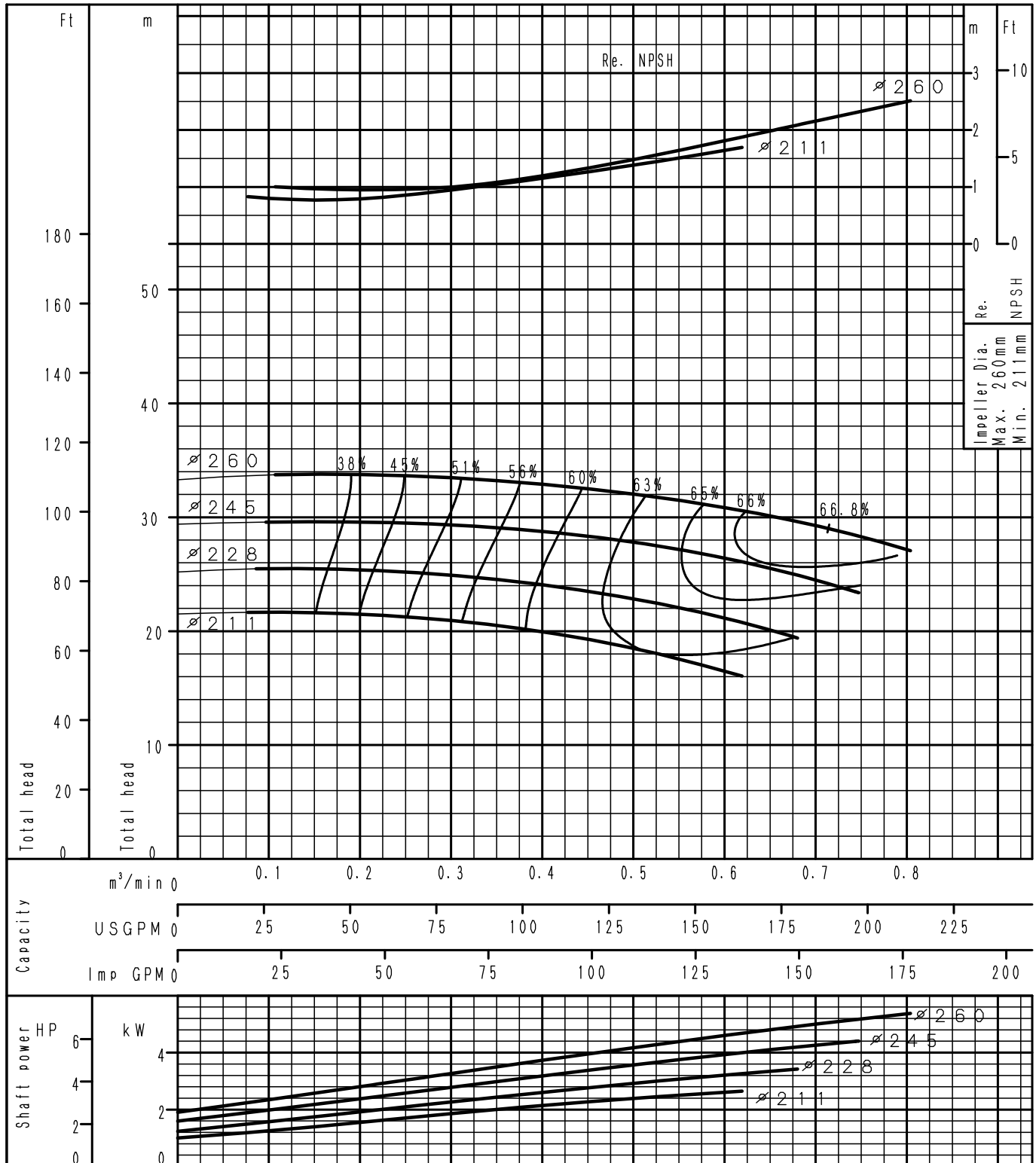
GSS40-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/t , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

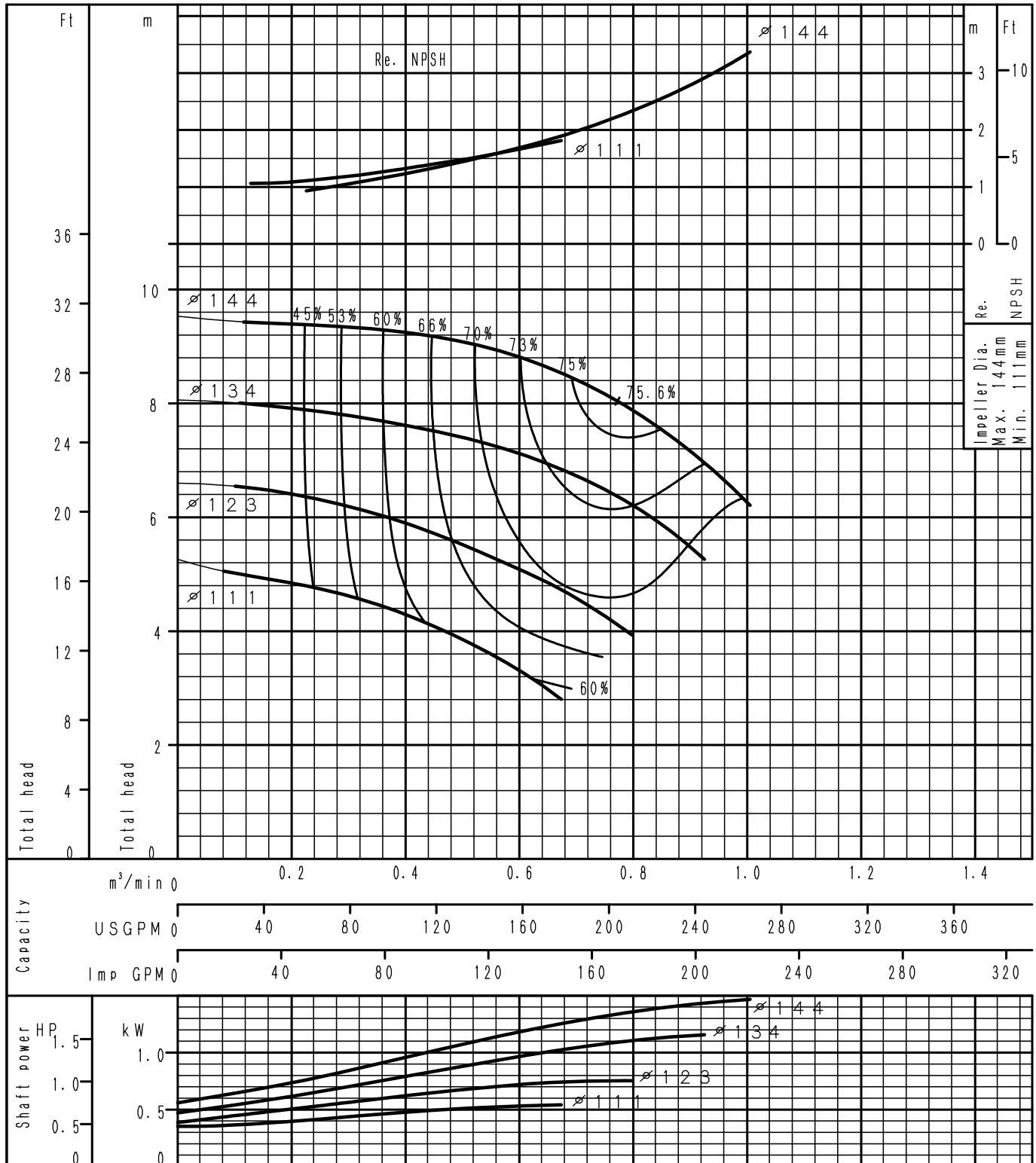
<h1 style="margin: 0;">GSS40-250</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS50-125	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

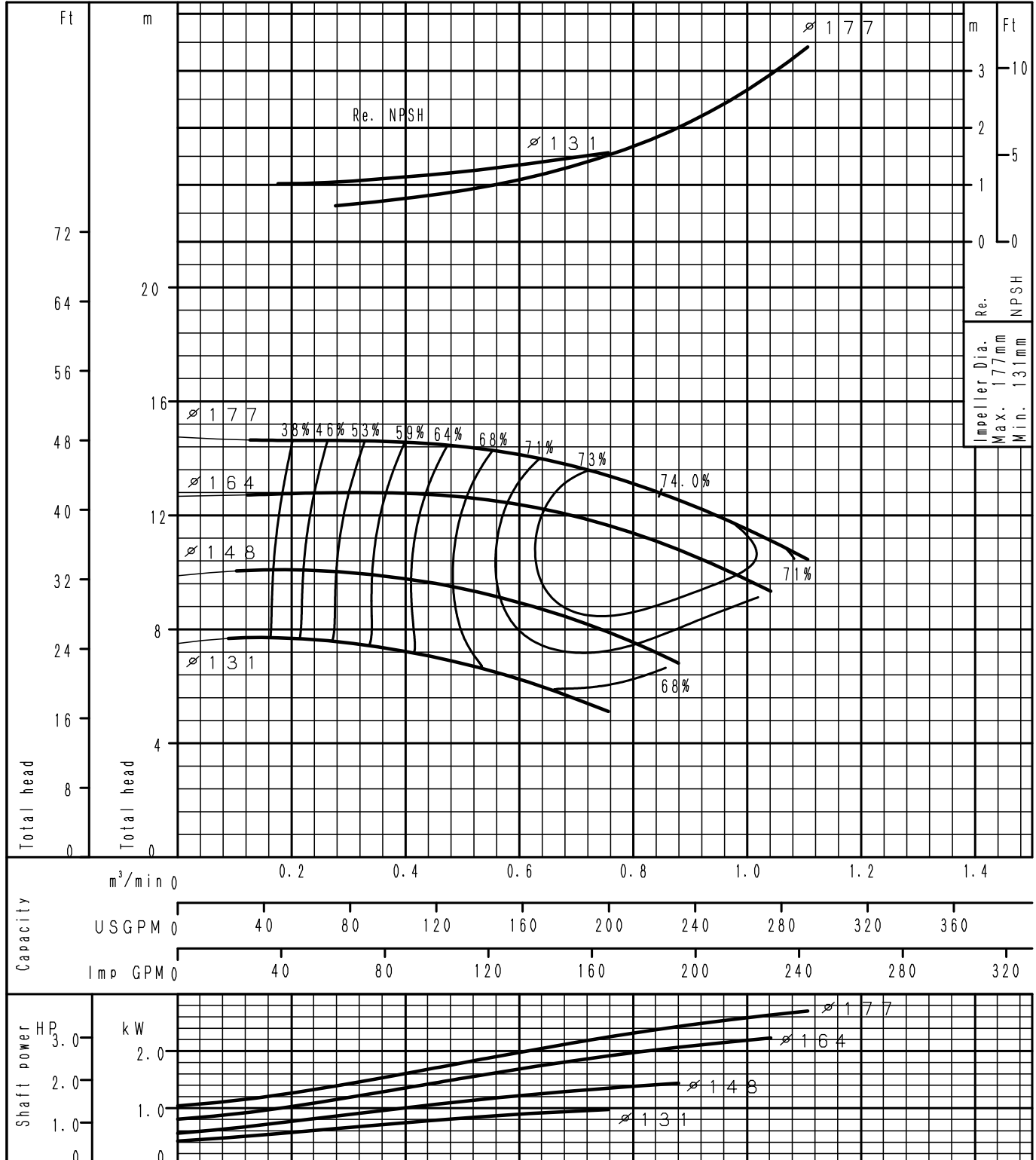


F8-1630880-01

Performance Curve

4 Poles

GSS50-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

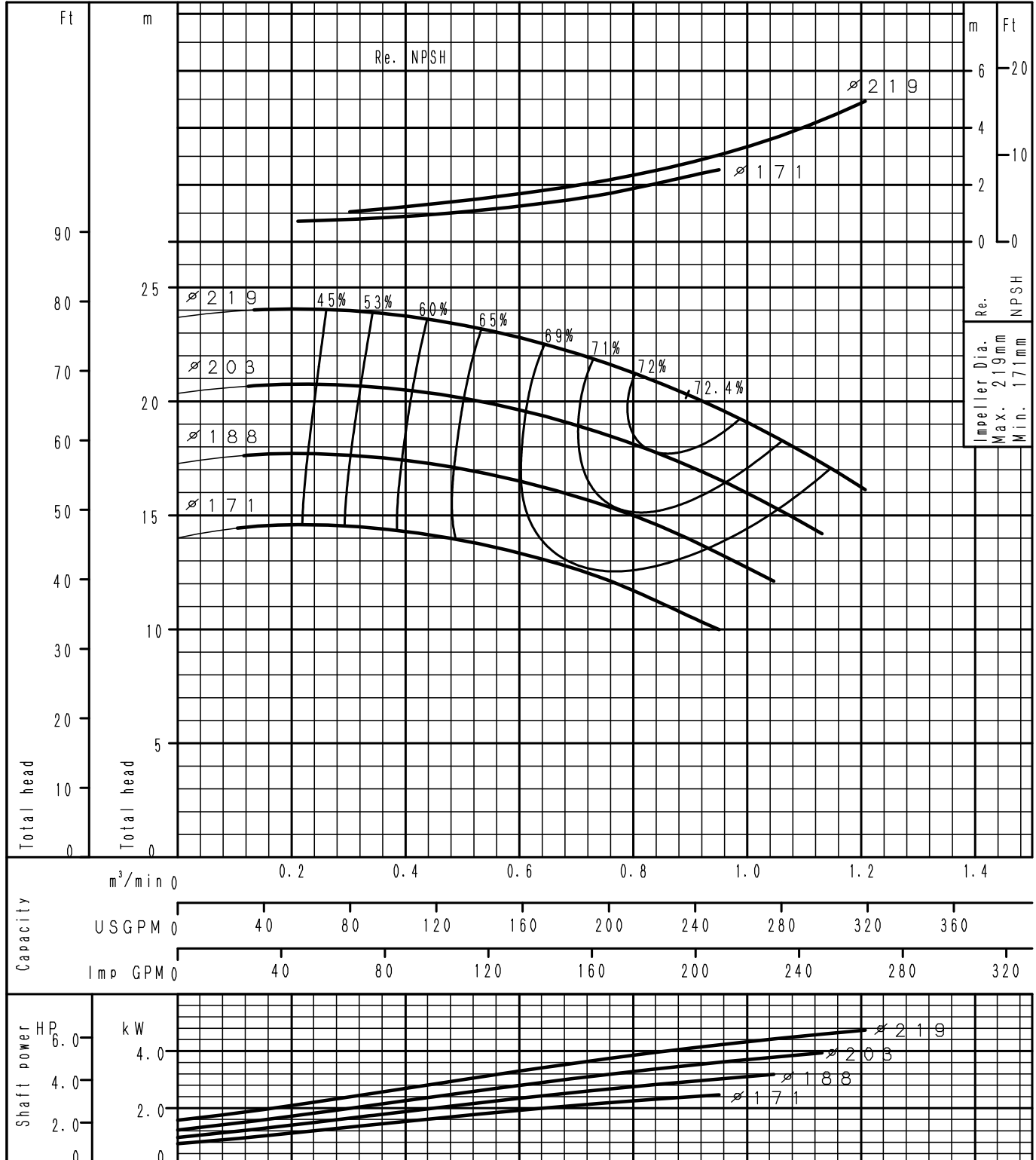




Performance Curve

4 Poles

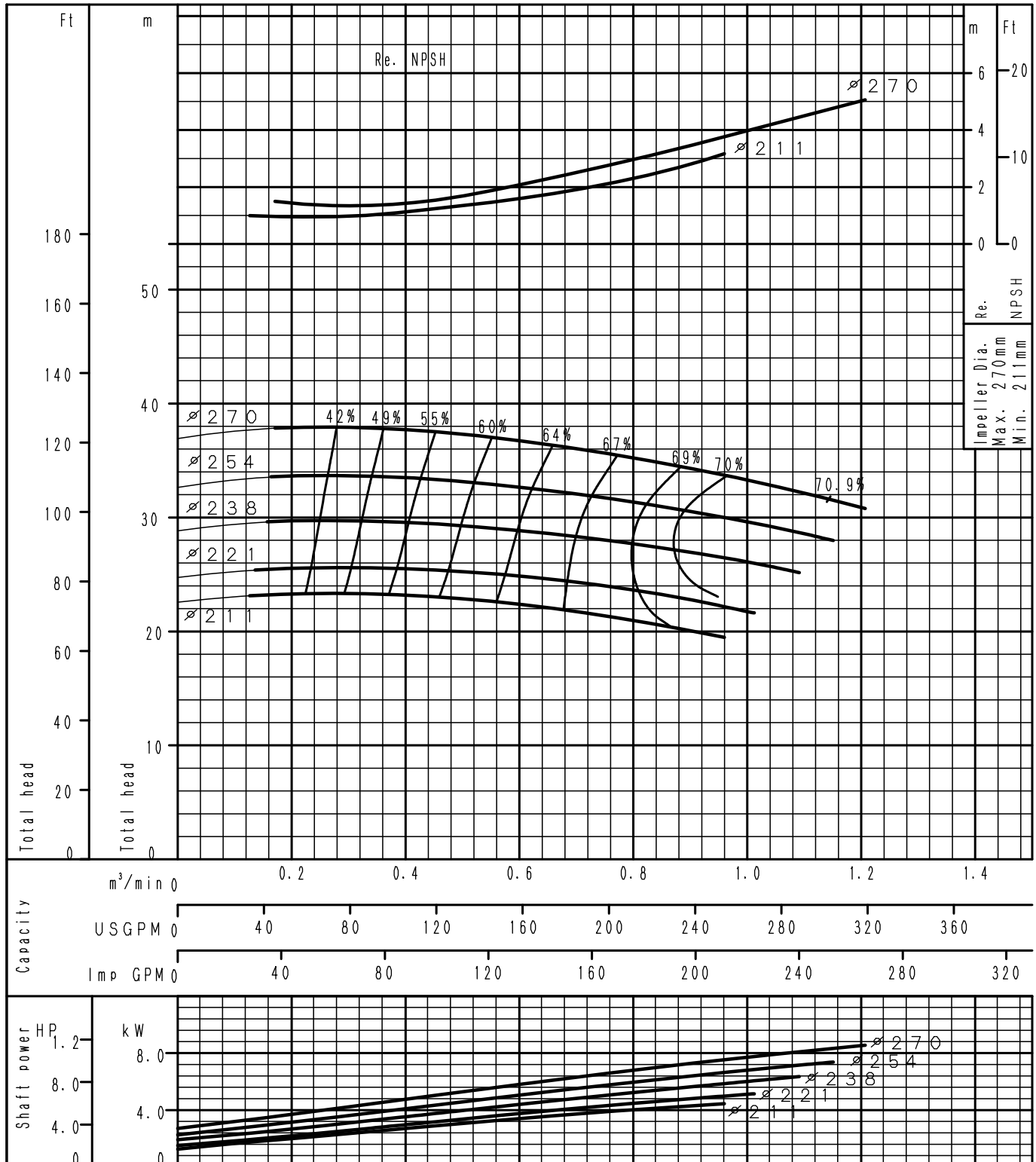
GSS50-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS50-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

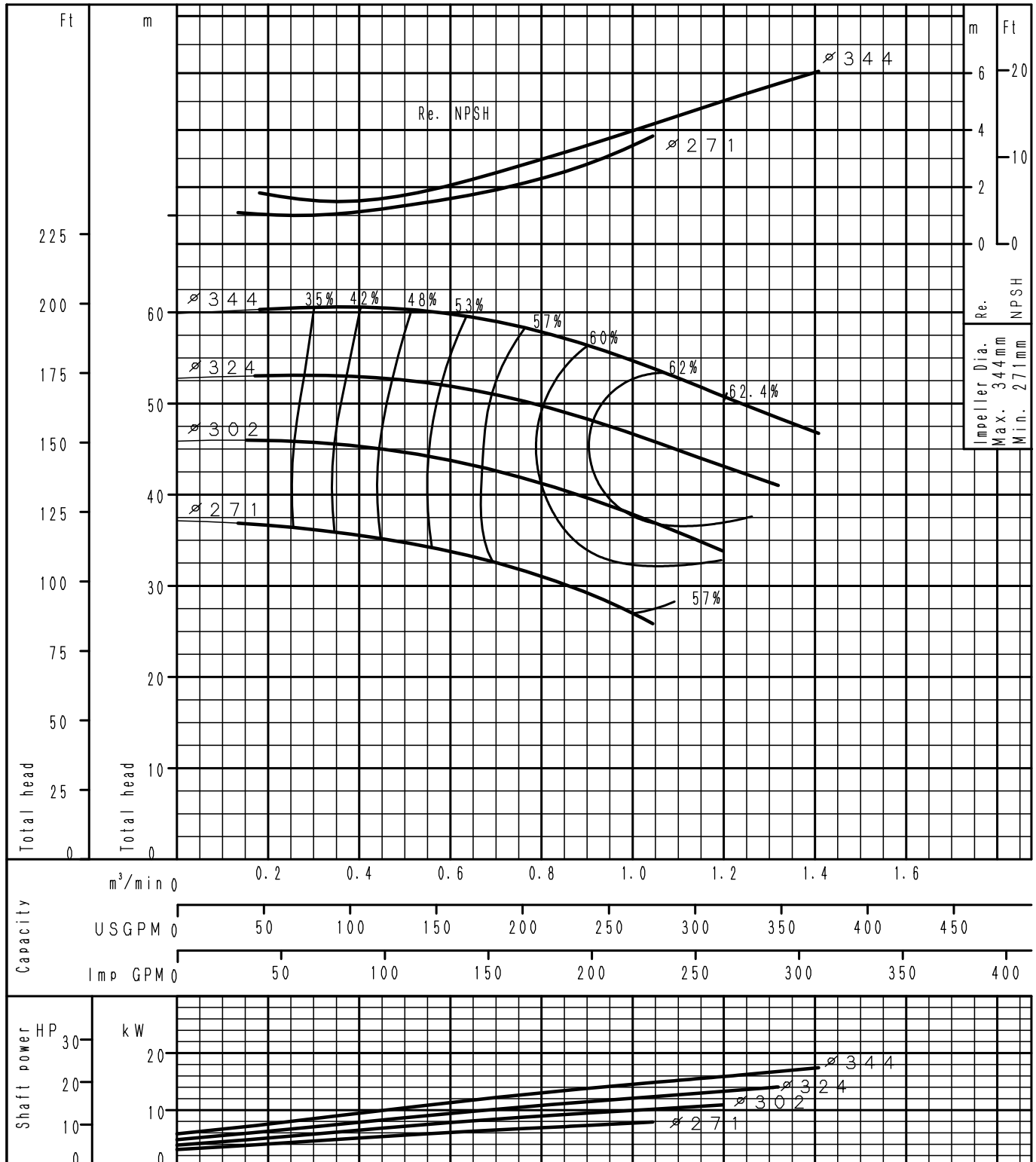


F8-1630883-01

Performance Curve

4 Poles

GSS50-315	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

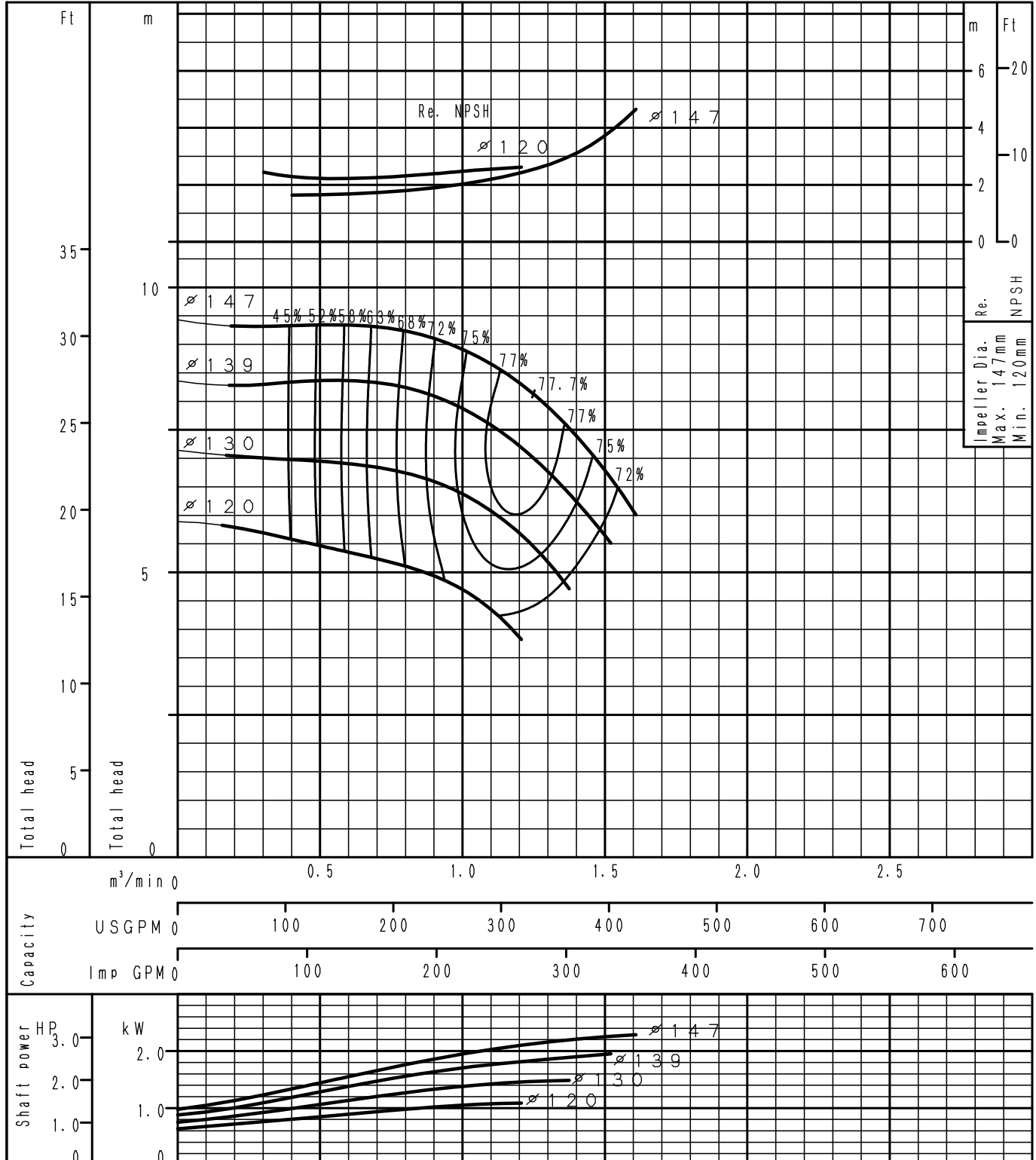


F8-1630884-01

Performance Curve

4 Poles

<h1 style="margin: 0;">GSS65-125</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

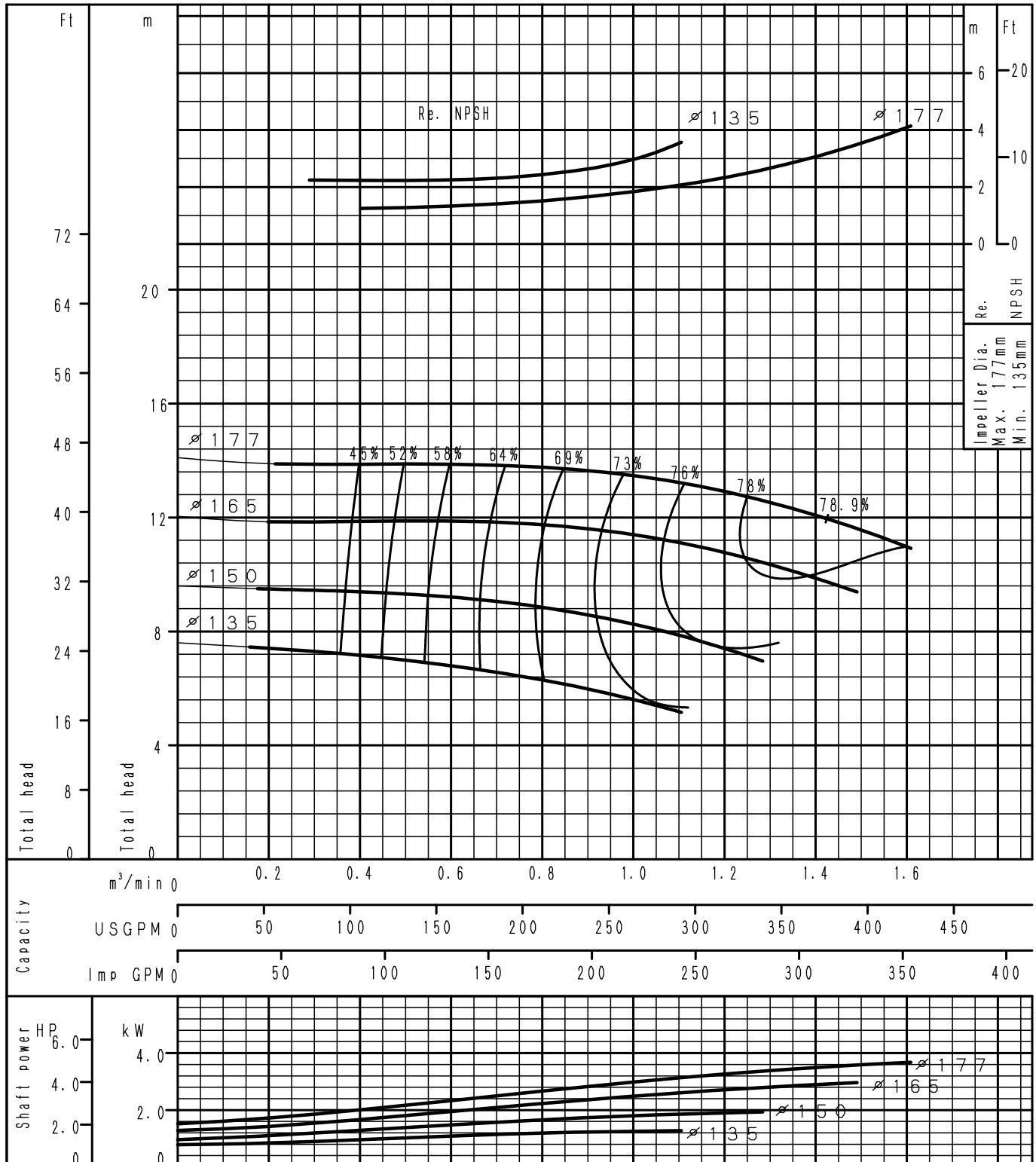


F8-1630885-01

Performance Curve

4 Poles

<h1 style="margin: 0;">GSS65-160</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



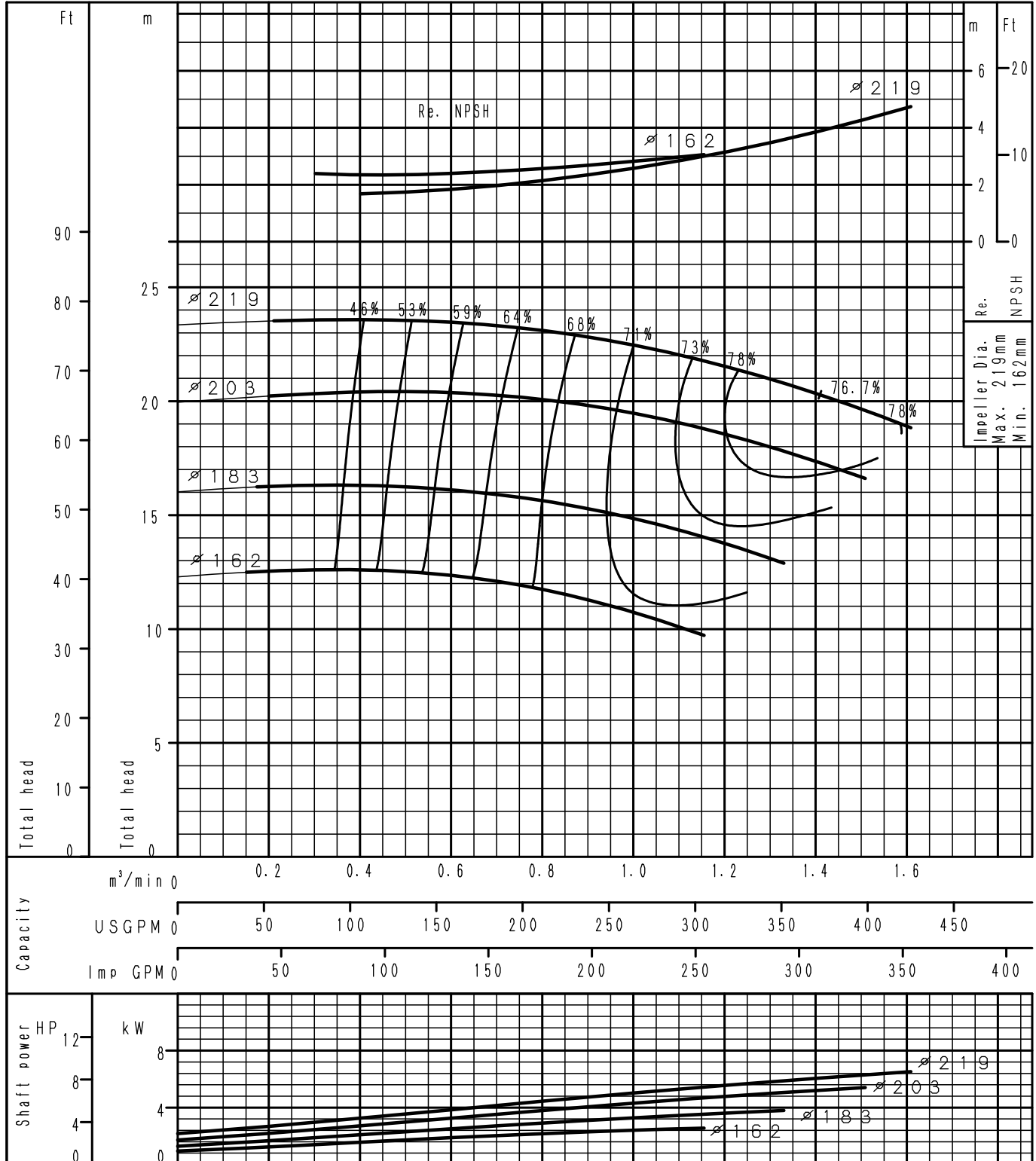
F8-1630886-01



Performance Curve

4 Poles

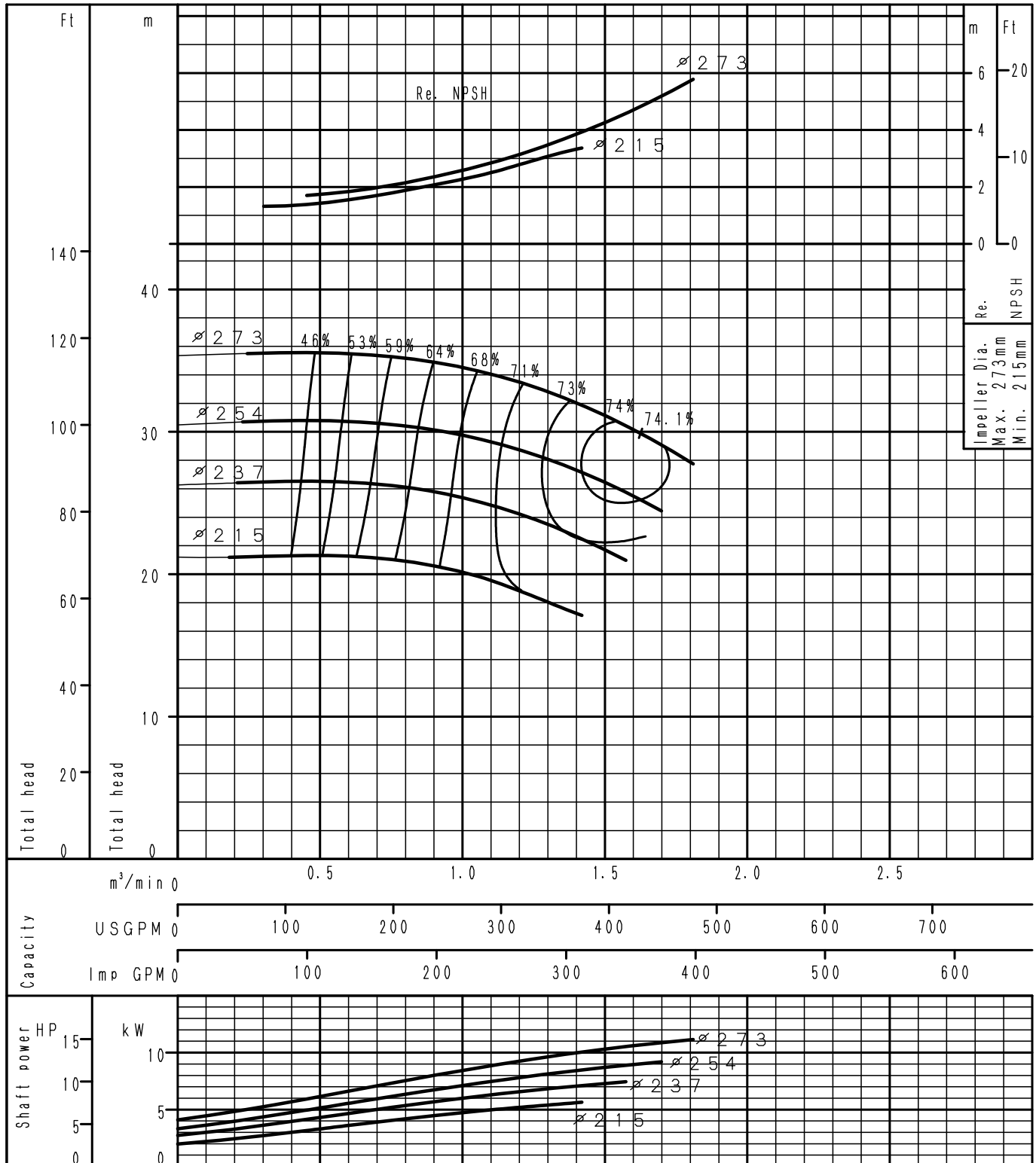
GSS65-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS65-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

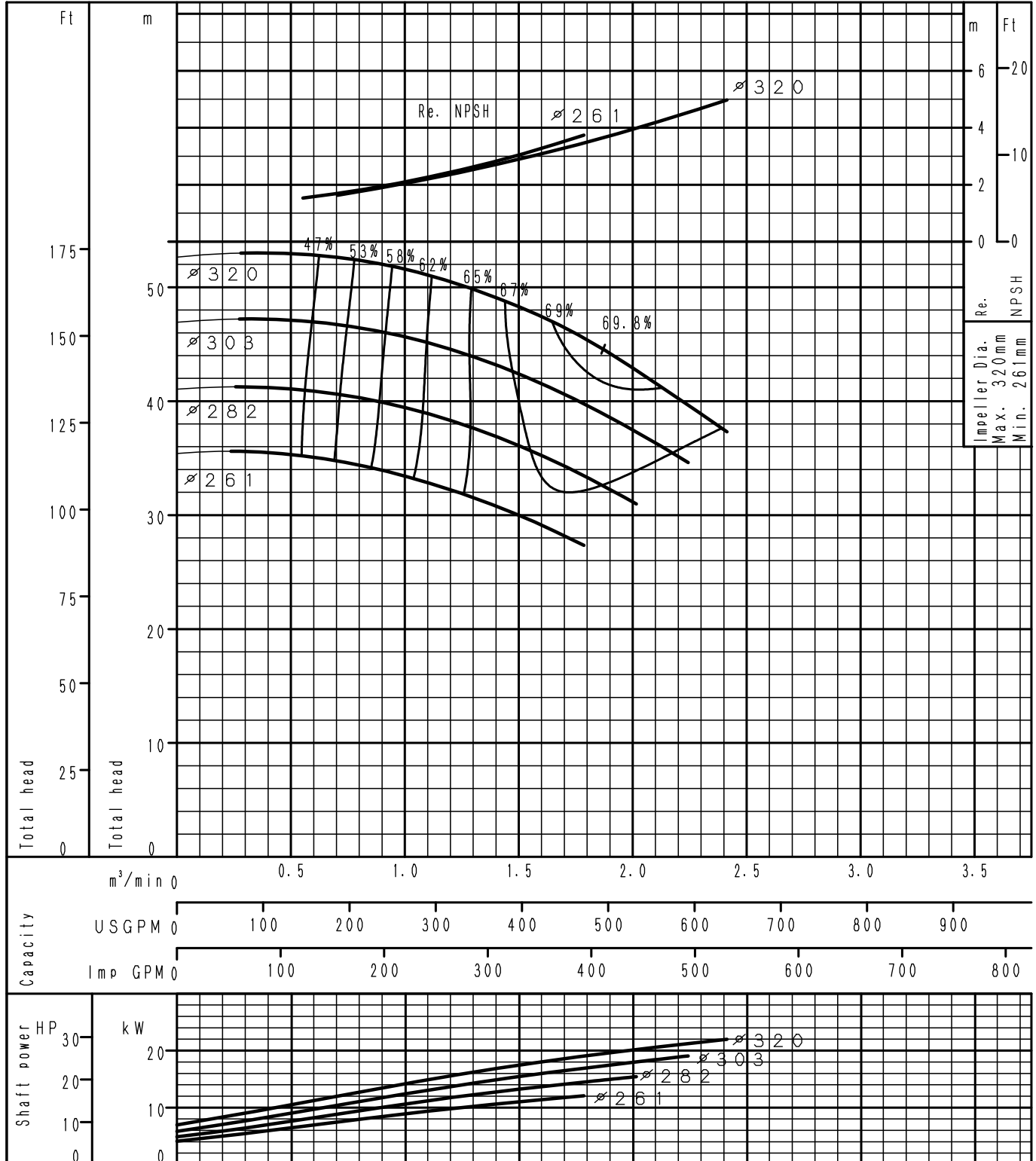


F8-1630888-01

Performance Curve

4 Poles

GSS65-315	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



F8-1630889-01

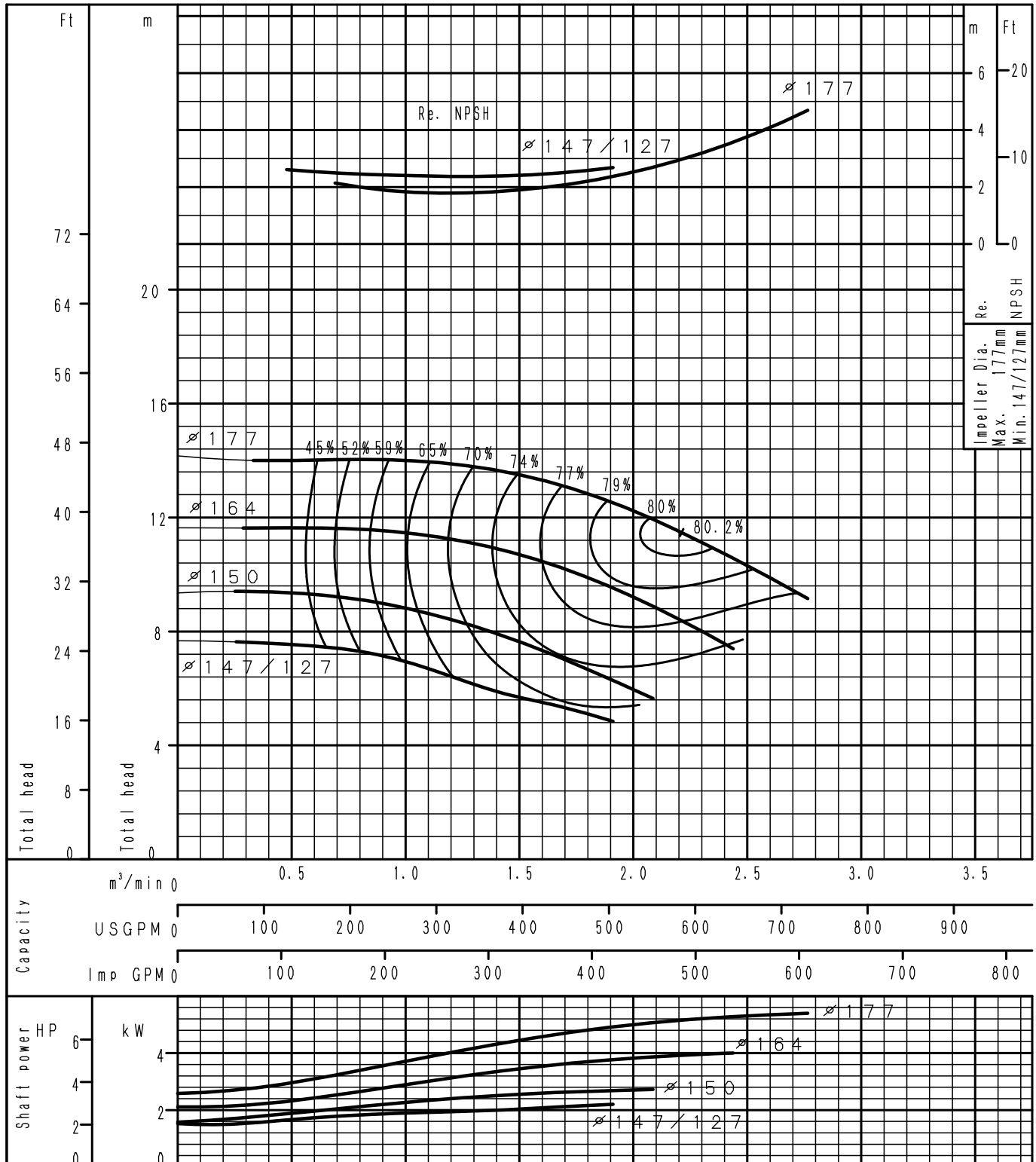




Performance Curve

4 Poles

GSS80-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

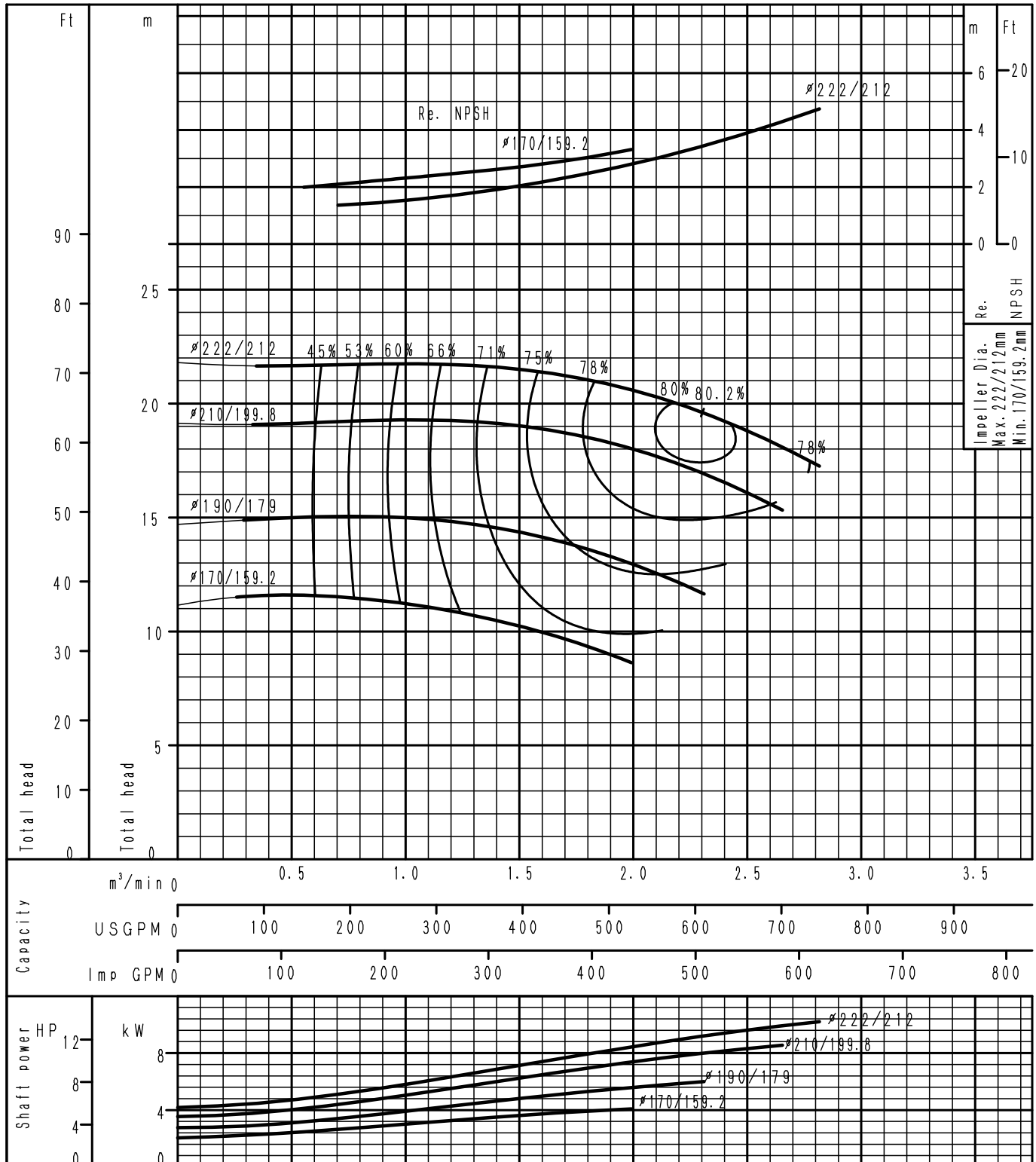


F8-1630890-01

Performance Curve

4 Poles

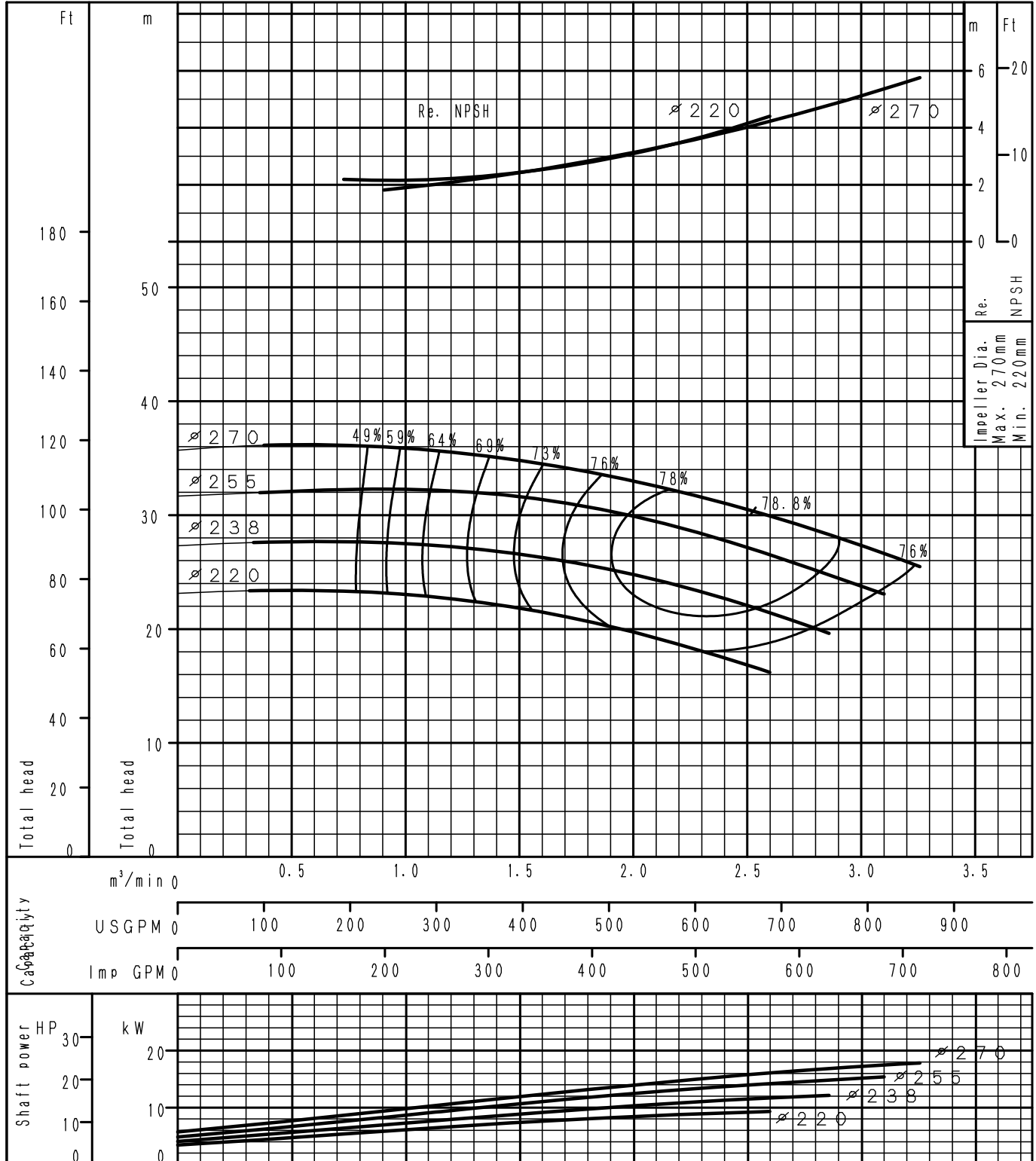
GSS80-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

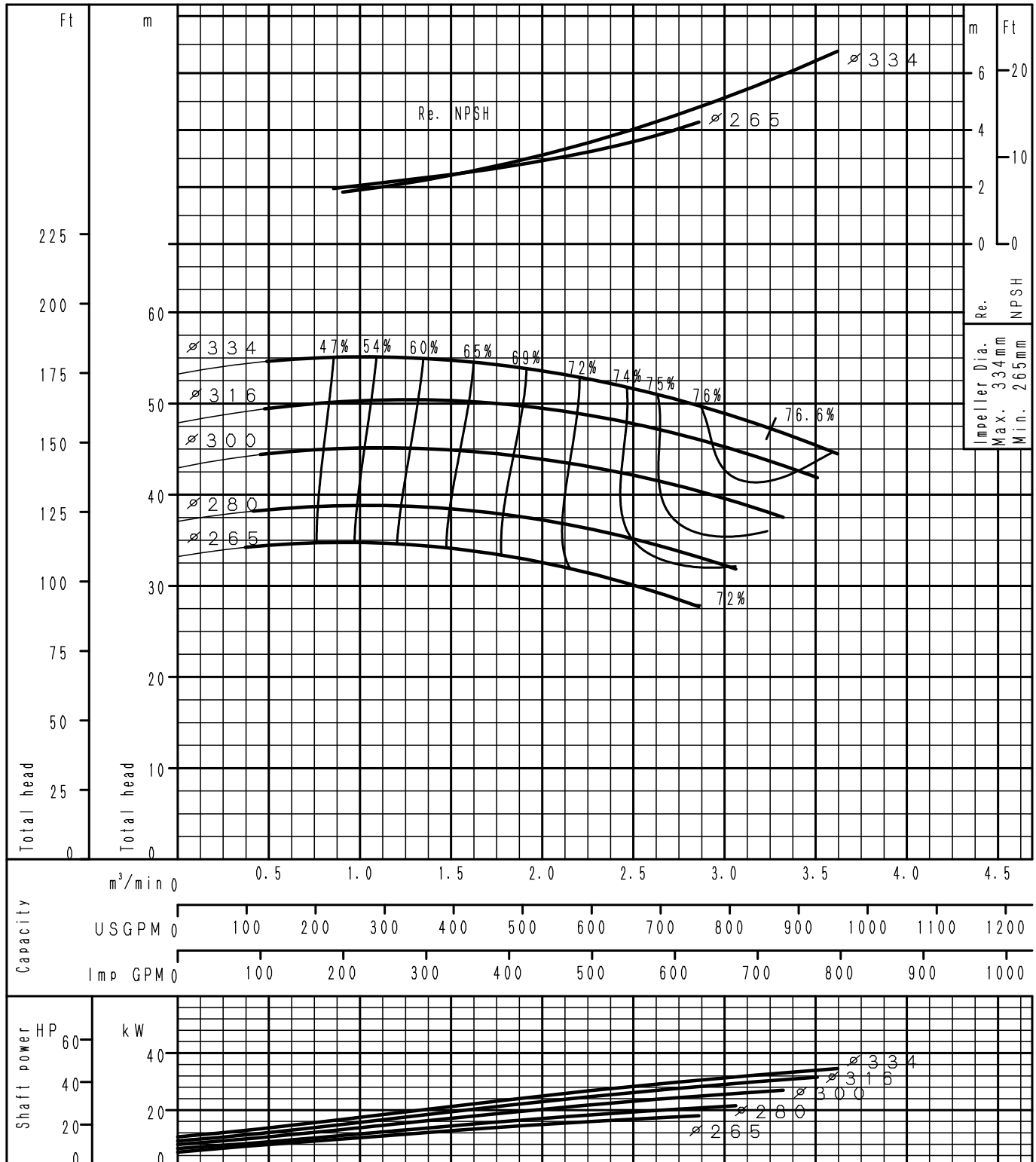
GSS80-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

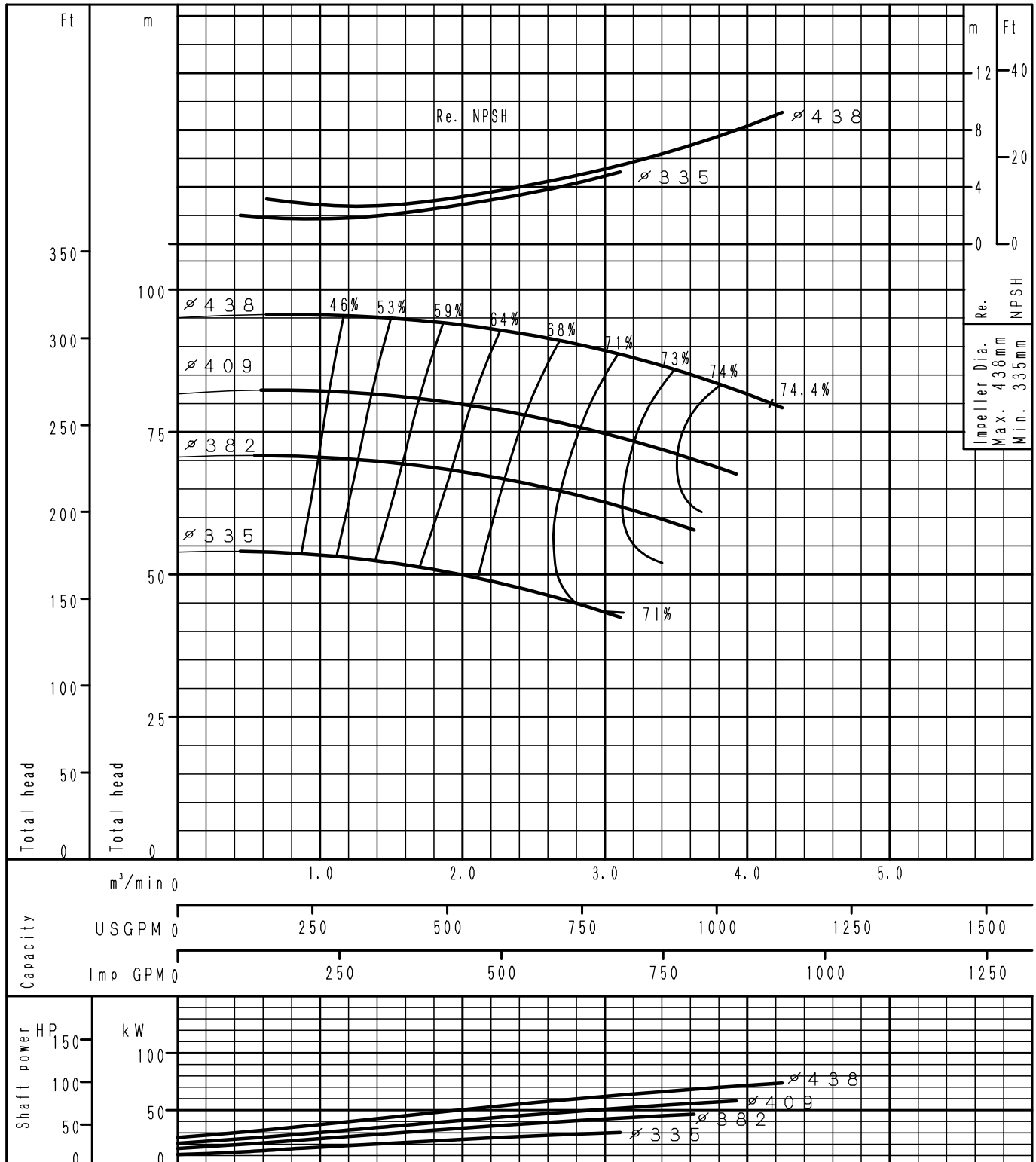
GSS80-315	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

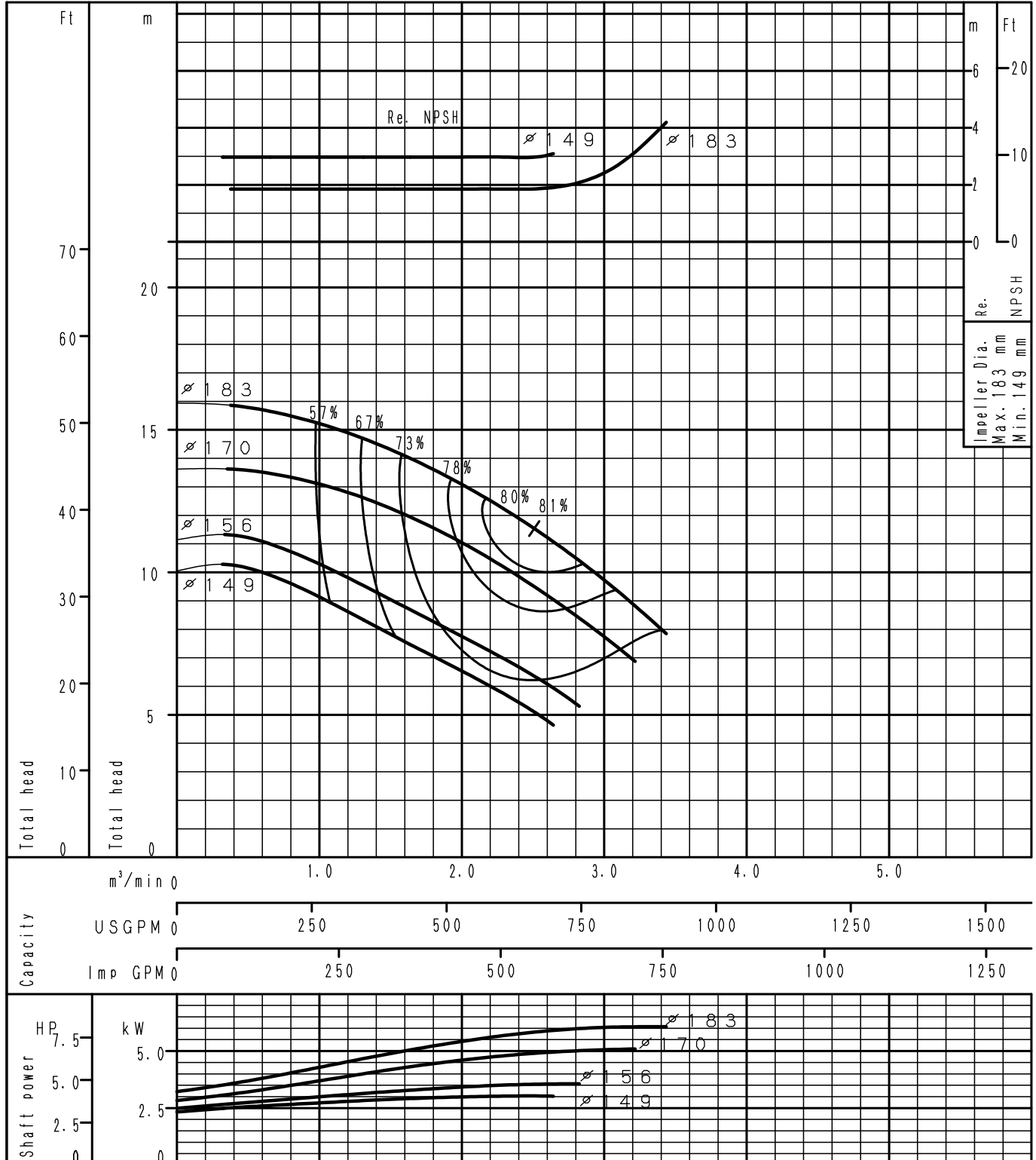
GSS80-400	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

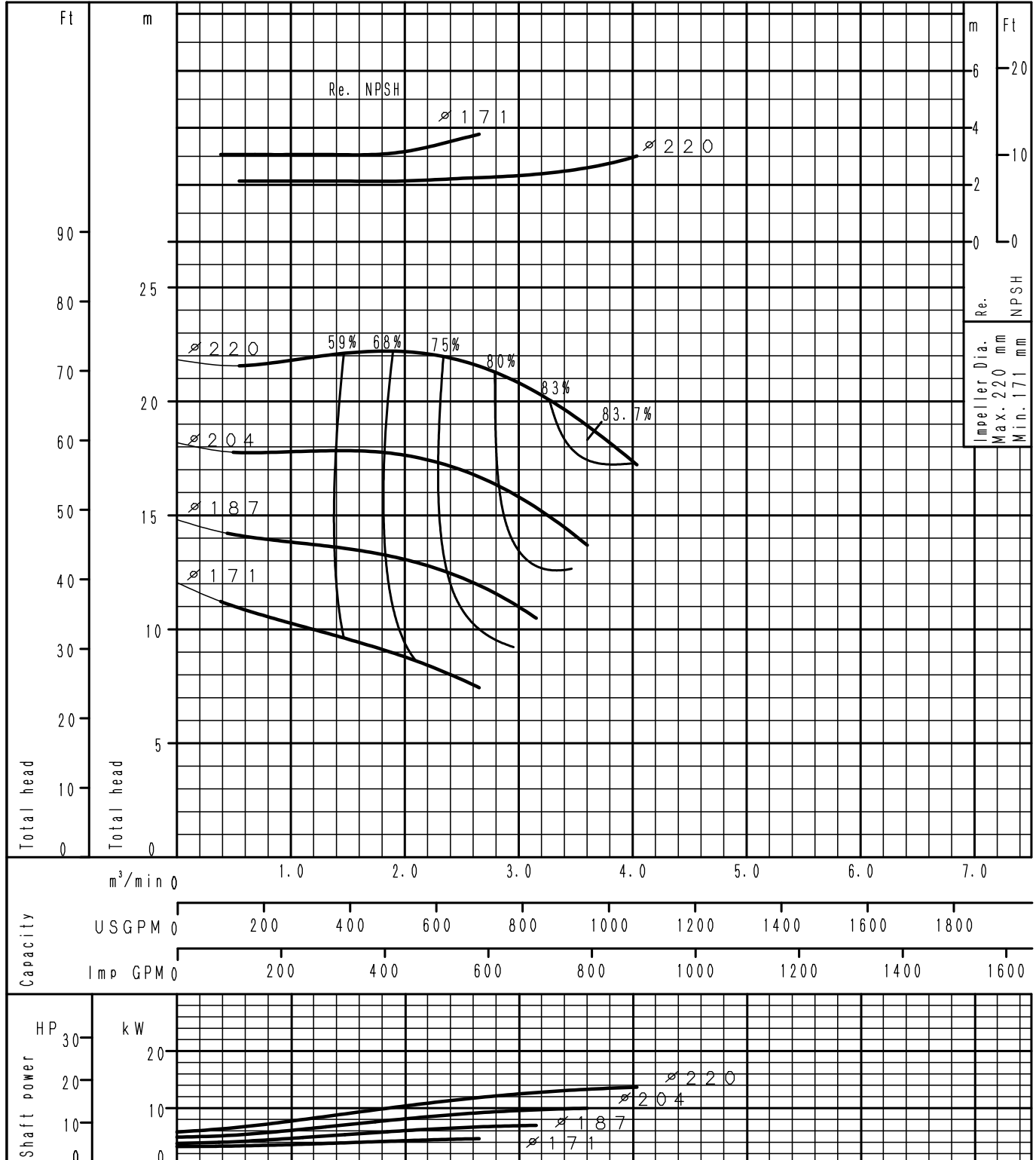
GSS100-160	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

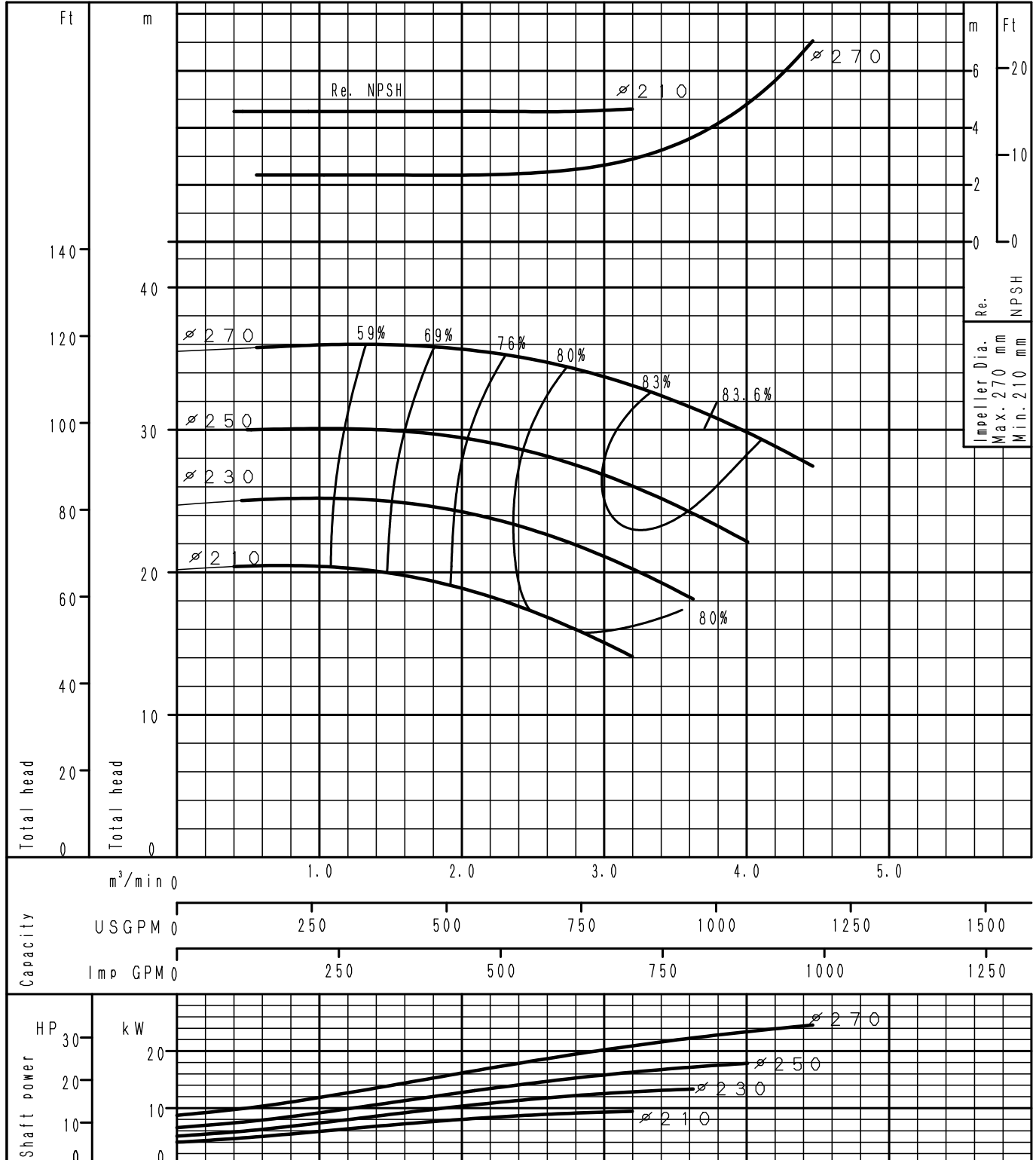
GSS100-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

<h1 style="margin: 0;">GSS100-250</h1>	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

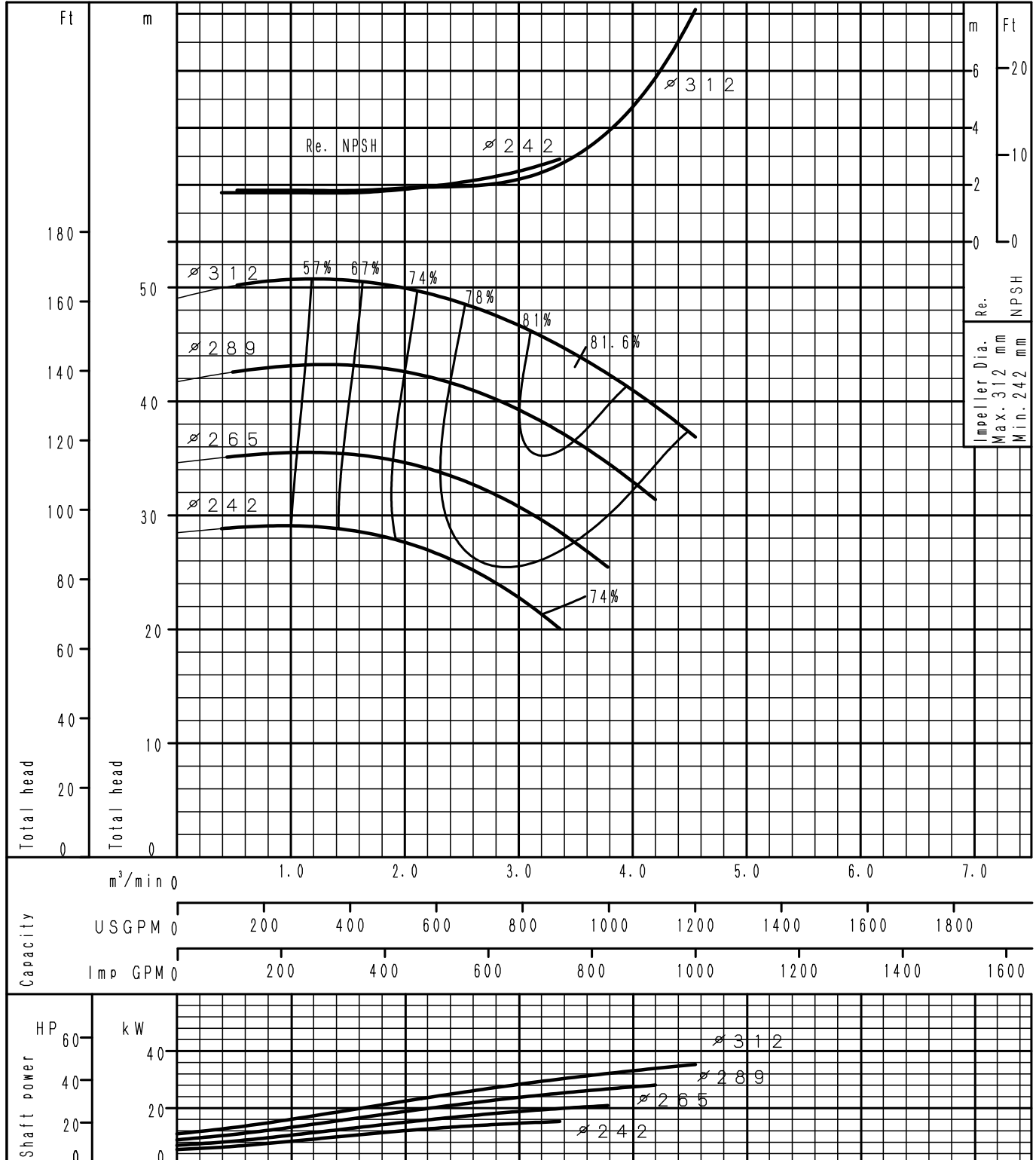




Performance Curve

4 Poles

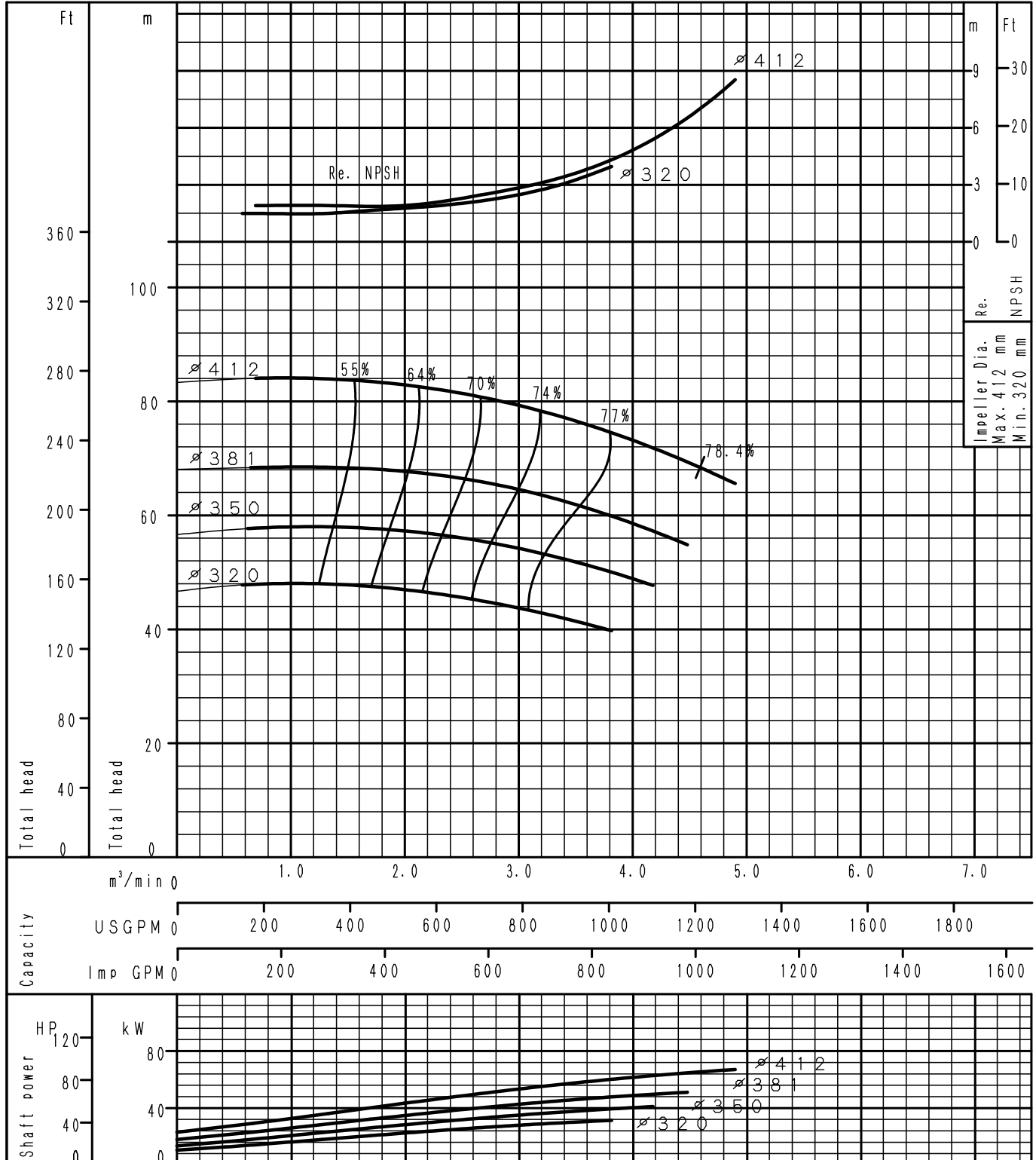
GSS100-315	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

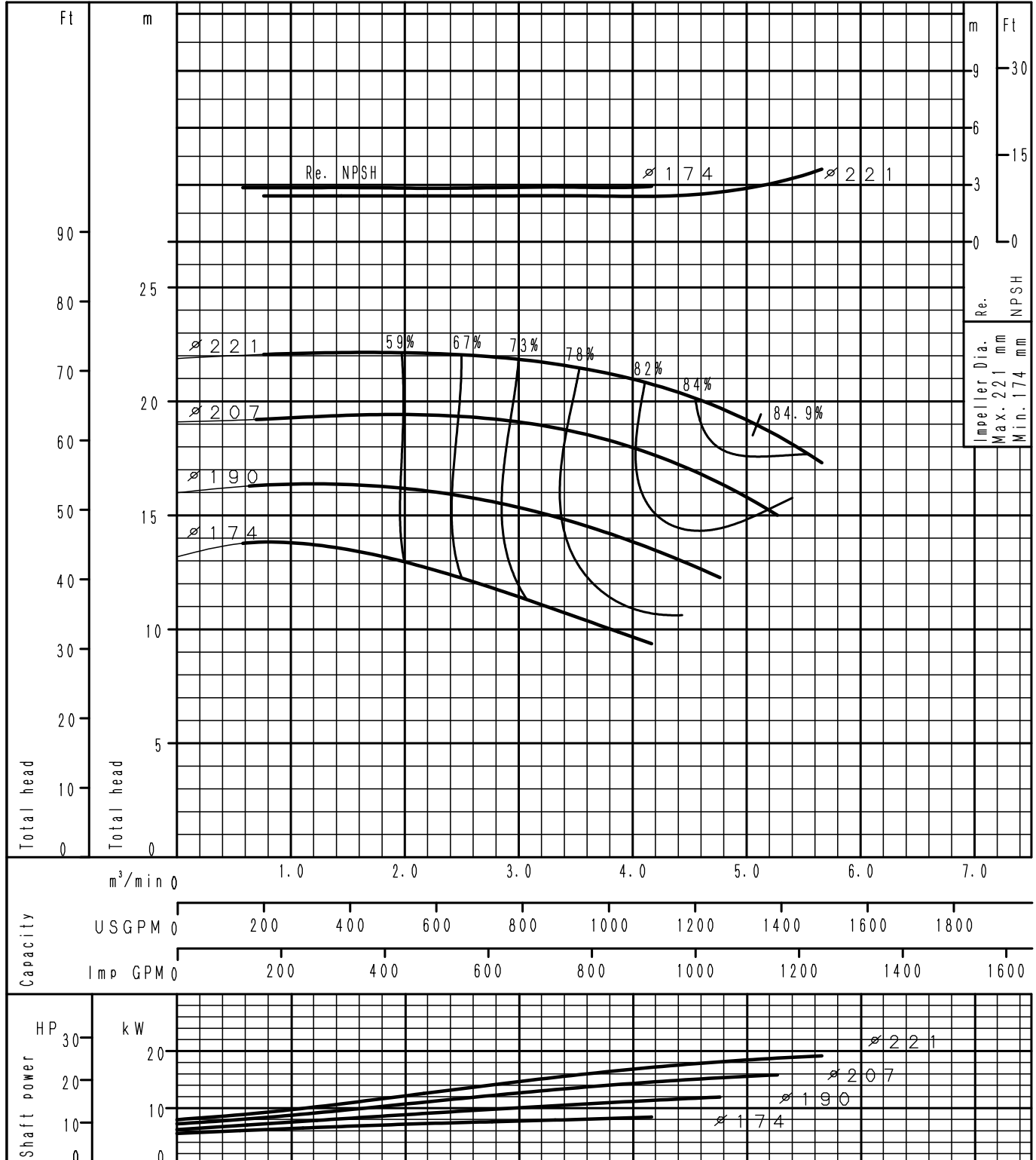
GSS100-400	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

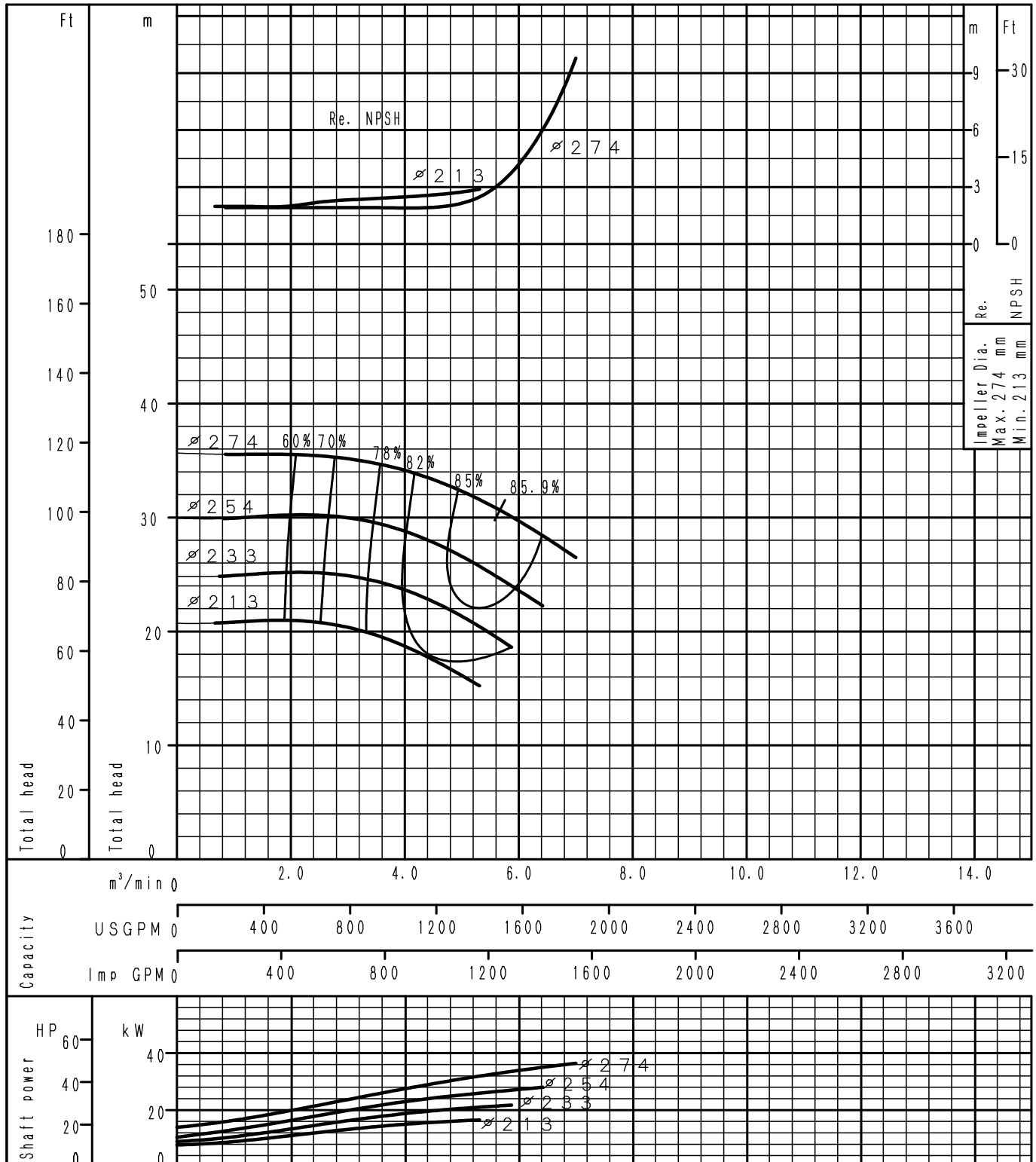
GSS125-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

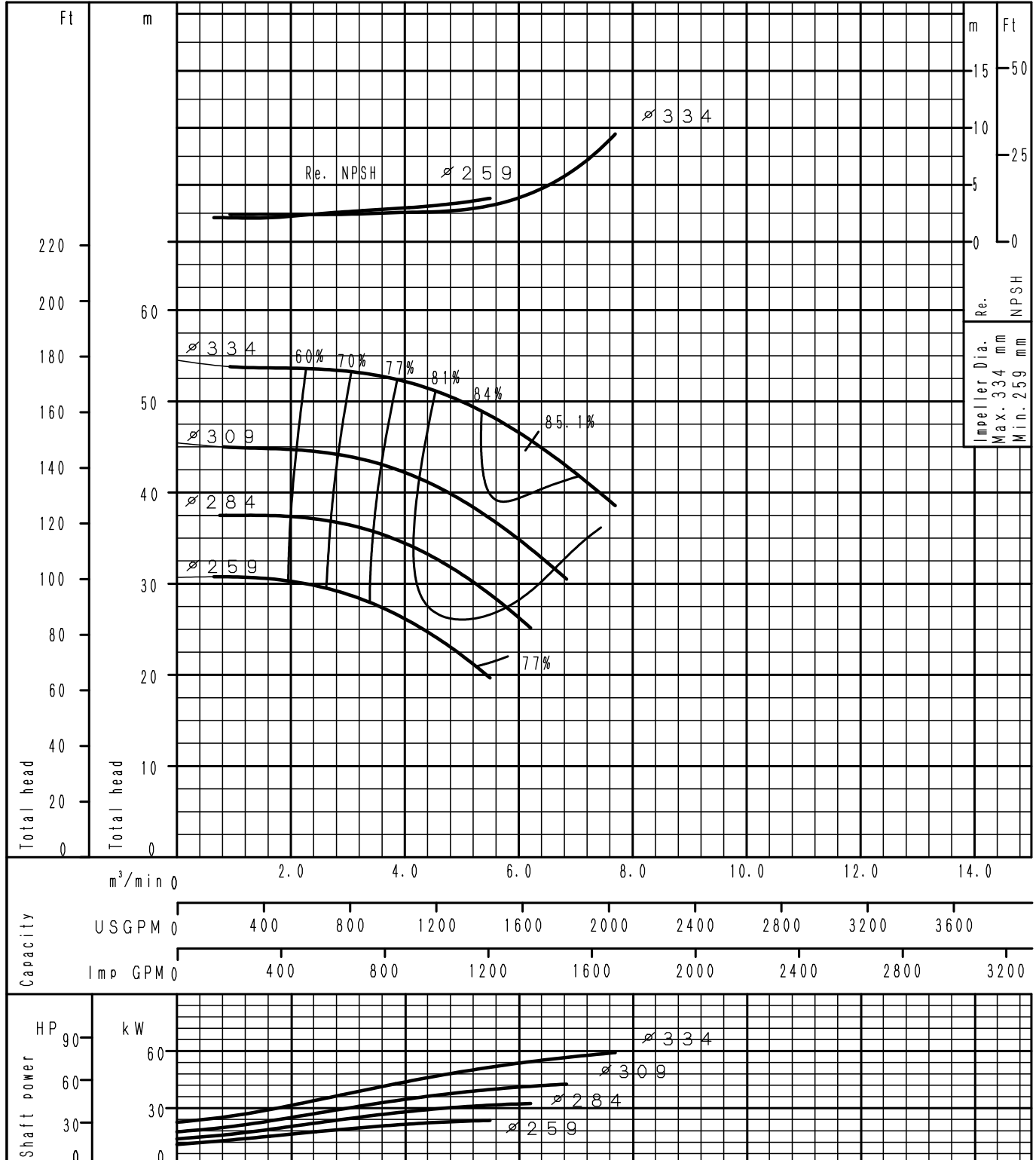
GSS125-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

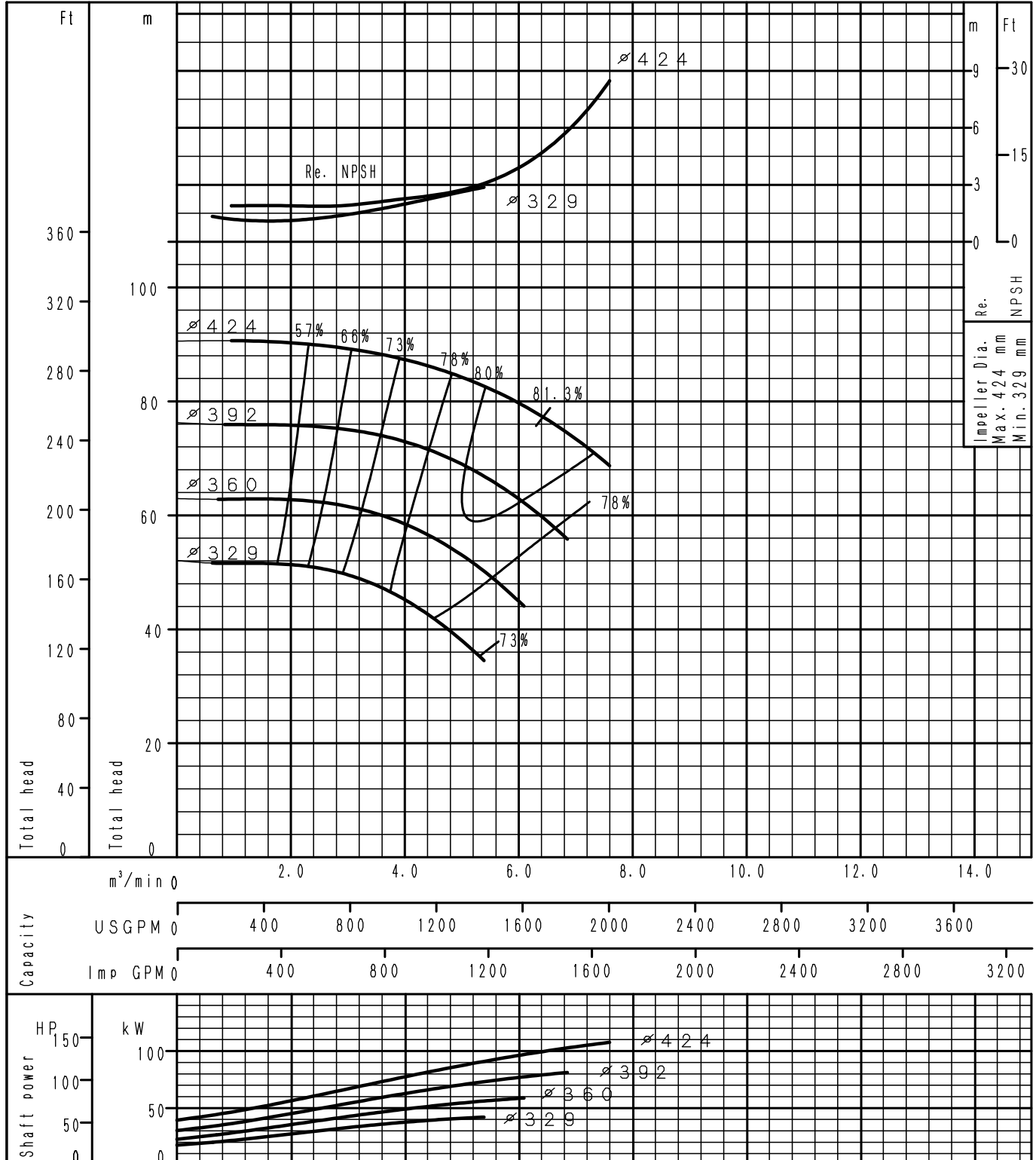
GSS125-315	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

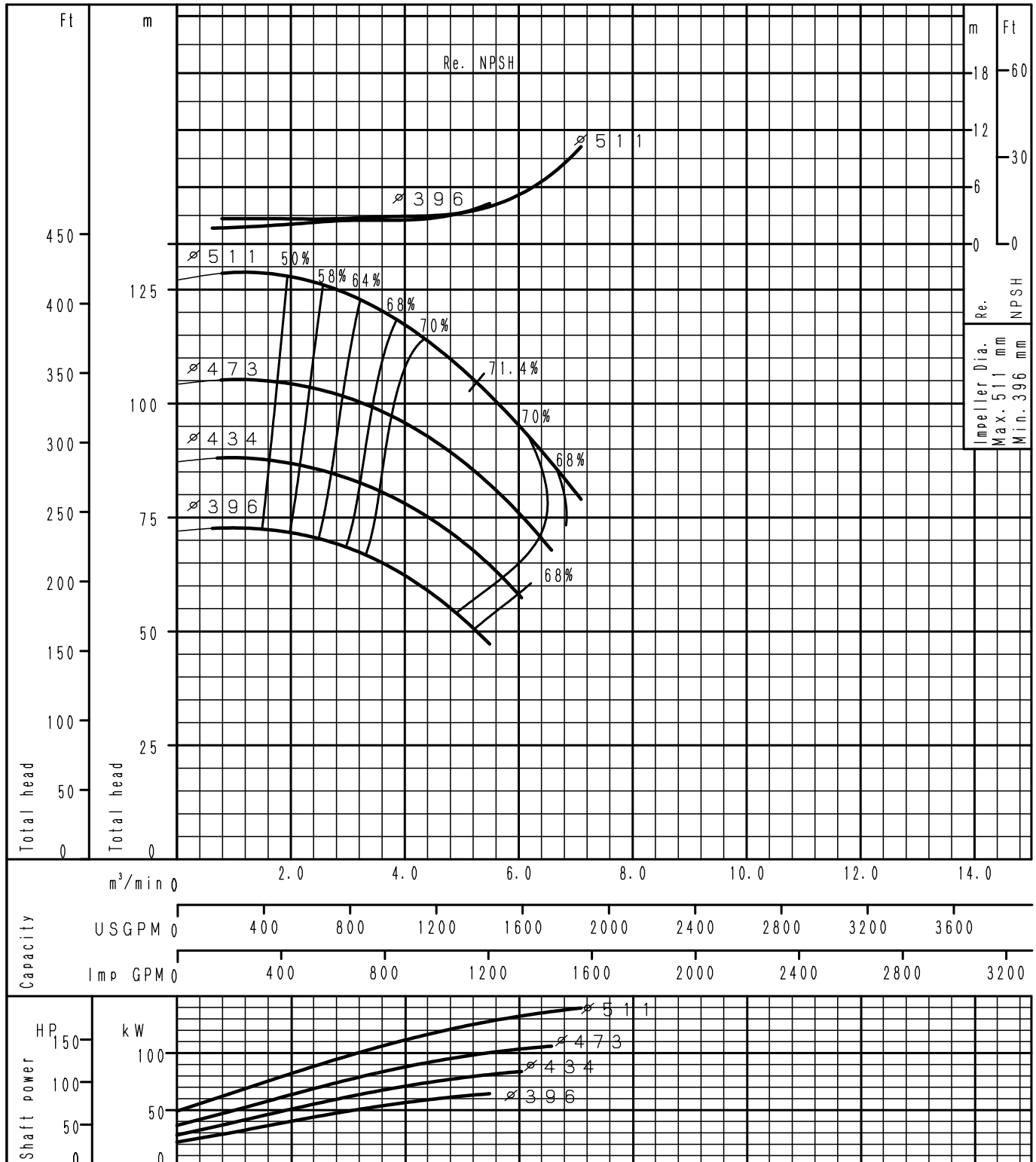
GSS125-400	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

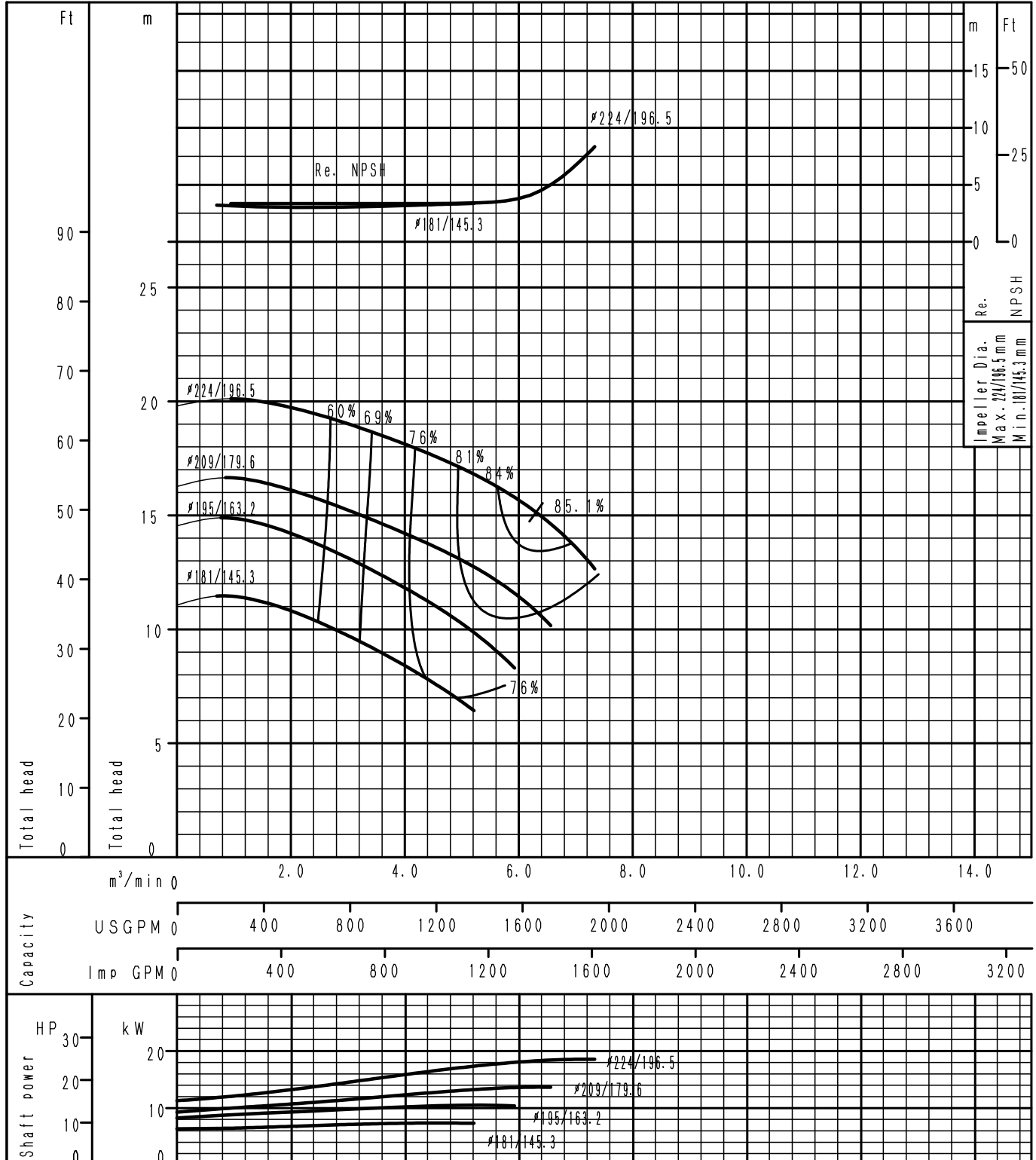
GSS125-500	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

GSS150-200	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s

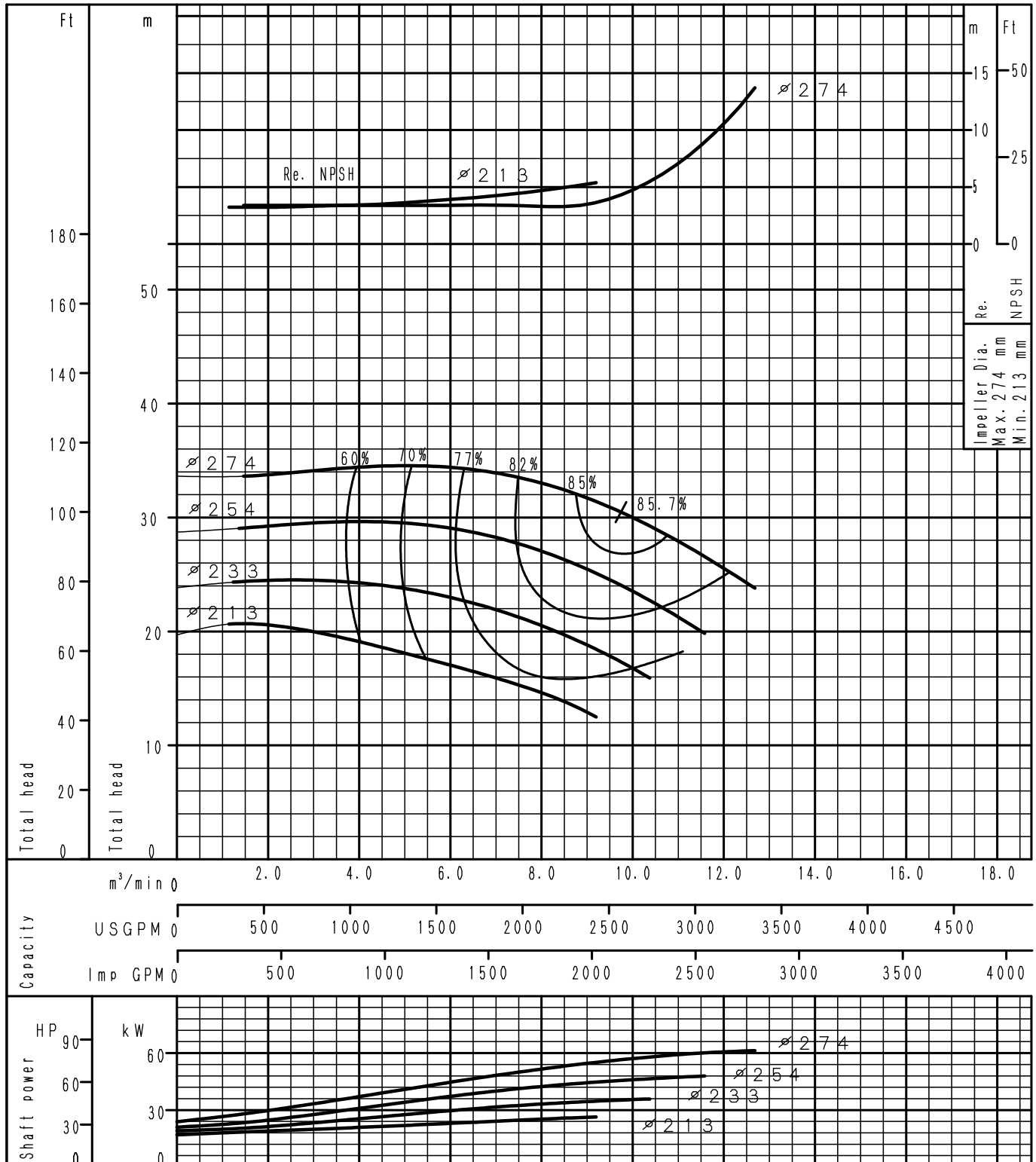




Performance Curve

4 Poles

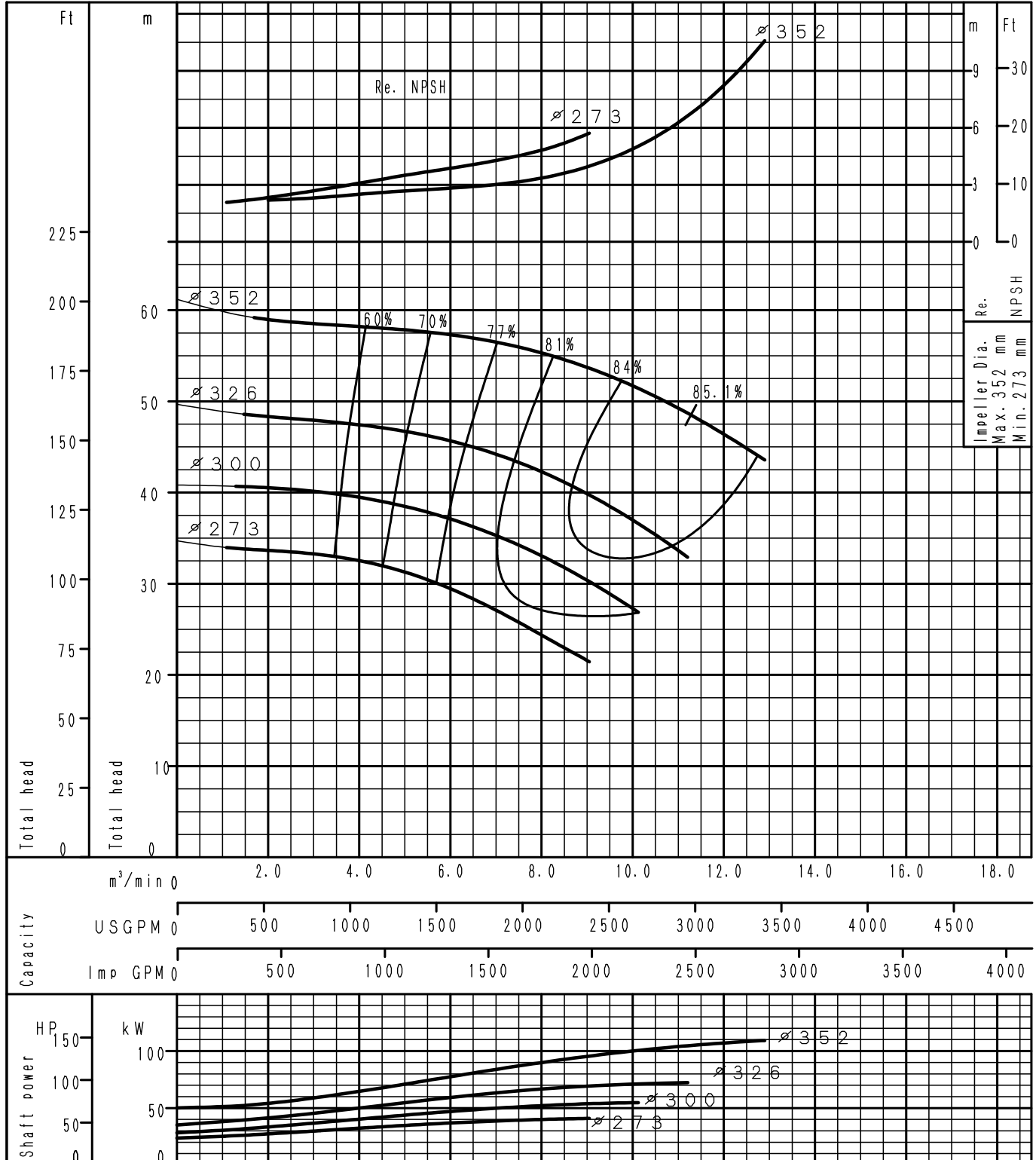
GSS150-250	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

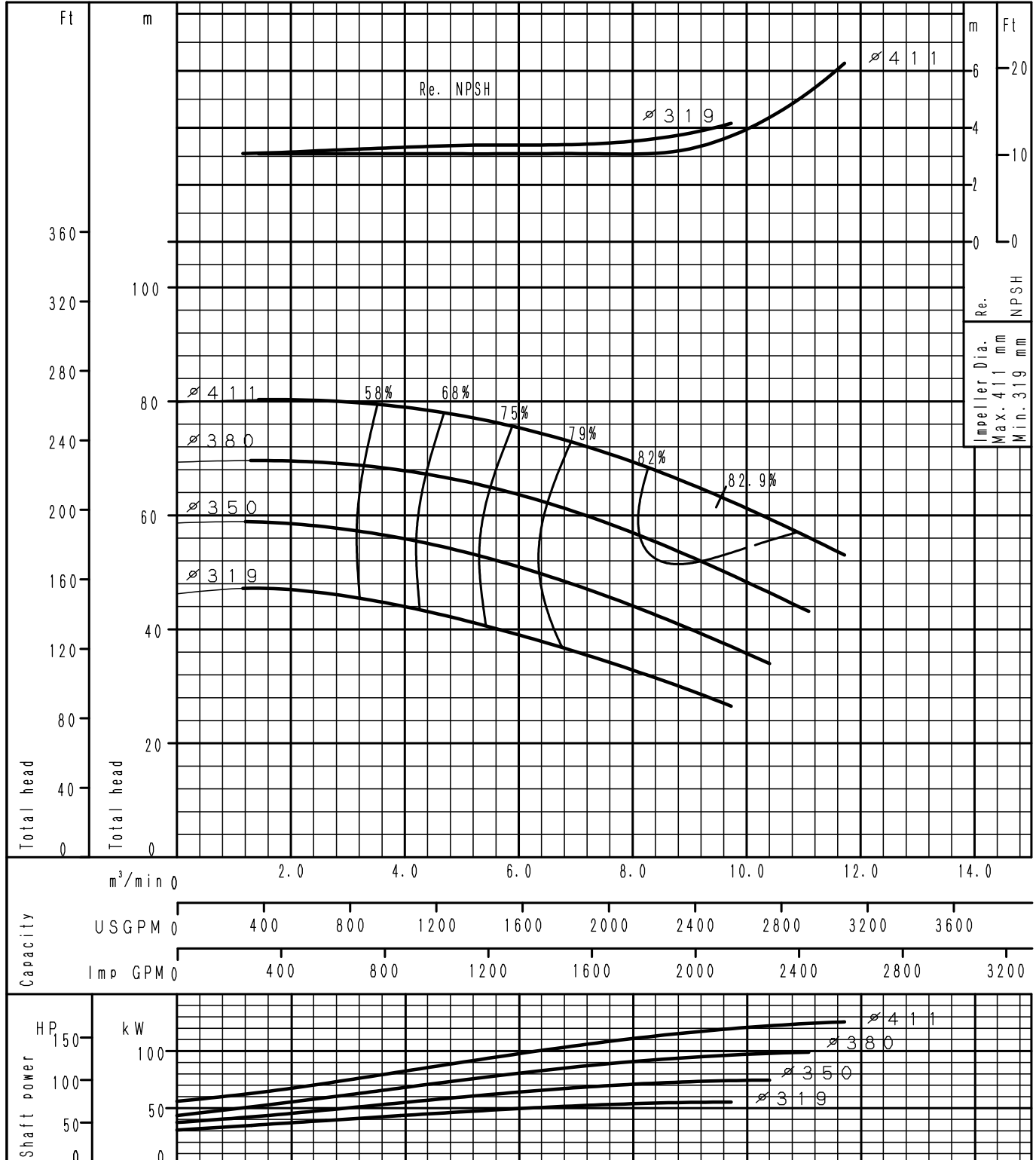
GSS150-315	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s



Performance Curve

4 Poles

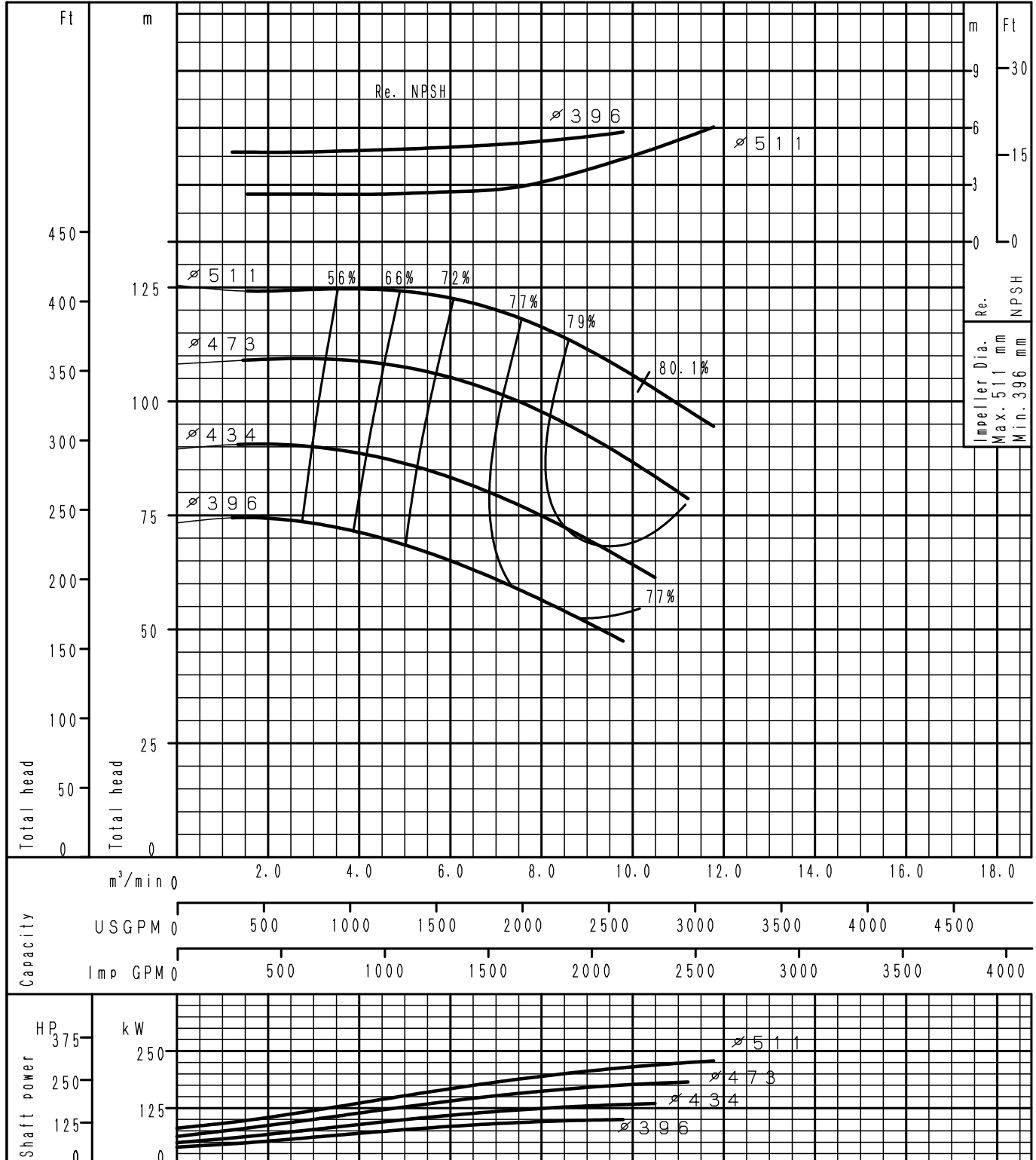
GSS150-400L	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	
DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s	



Performance Curve

4 Poles

GSS150-500	According to ISO testing code 9906 Grade 3B
60Hz ( Speed 1750 min <sup>-1</sup> )	DENSITY= 1.0 kg/l , VISCOSITY= 1.0 mPa·s





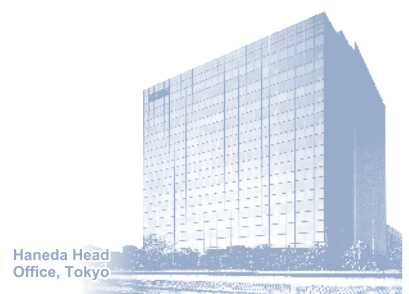


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