EBARA

TECHNICAL DATA BOOK

50Hz/60Hz

EBARA END SUCTION VOLUTE PUMP MODEL GS



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PERFORMANCE CURVES

50Hz – 2900 min-1

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

50Hz – 1450 min-1

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

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SPECIFICATION - Main Applications

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 (Caustic soda), below 100℃and below conc. of 20%

- **Pulp and Paper Industry**

  White water (bellow pulp conc.of 0.3%)

- **Automobile industry**

  Water (without slurry)

  Detergent (without slurry)

- **Steel industry-Non-ferrous metals industry**

  Coolant

  Cooling Water

- **Garbage incineration**

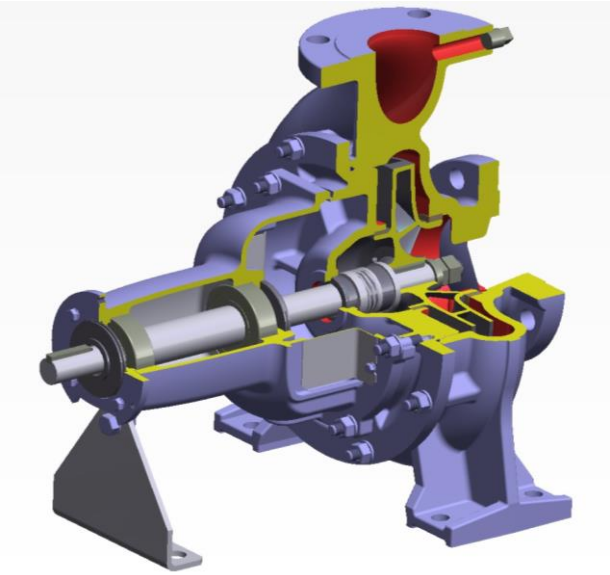
  Cooling Water

  Deaerater

  Condensate water

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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 flashing and quenching piping not required for the standard application.
- Air-bleeding not required.
- Simplified bearings and shaft seal enable easy assembly.

Pump Specifications

- Maximum operating pressure: 25 bar
- Liquid temperature range expansion：-10℃ to 140℃
- 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.

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SPECIFICATION - Genaral Description

Capacities	To 1300 m3/hr (50Hz)
	To 1500 m3/hr (60Hz)
Heads	To 150 m (50Hz)
	To 150 m (60Hz)
Liquid temperatures	-10℃ to 140℃
Max.working pressures	Up to 25Bar (2.5MPa)
Materials	Casing : Cast Iron,Ductile Cast Iron Impeller : Cast Iron,Ductile Cast Iron,Bronze, Stainless Steel
Standards	EN733
Rotation	Clockwise viewed from coupling end

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FEATURES

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

APPLICABLE FLANGE STANDARD

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

IMPELLER TYPE

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

SHAFT SEAL

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

BEARINGS AND LUBRICATION

- Shield ball bearing (Grease lubrication)

PAINTING

1. Outer Surface

・Standard up to 120℃

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

・Standard above 120℃ up to 140℃

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

2. Inner Surface

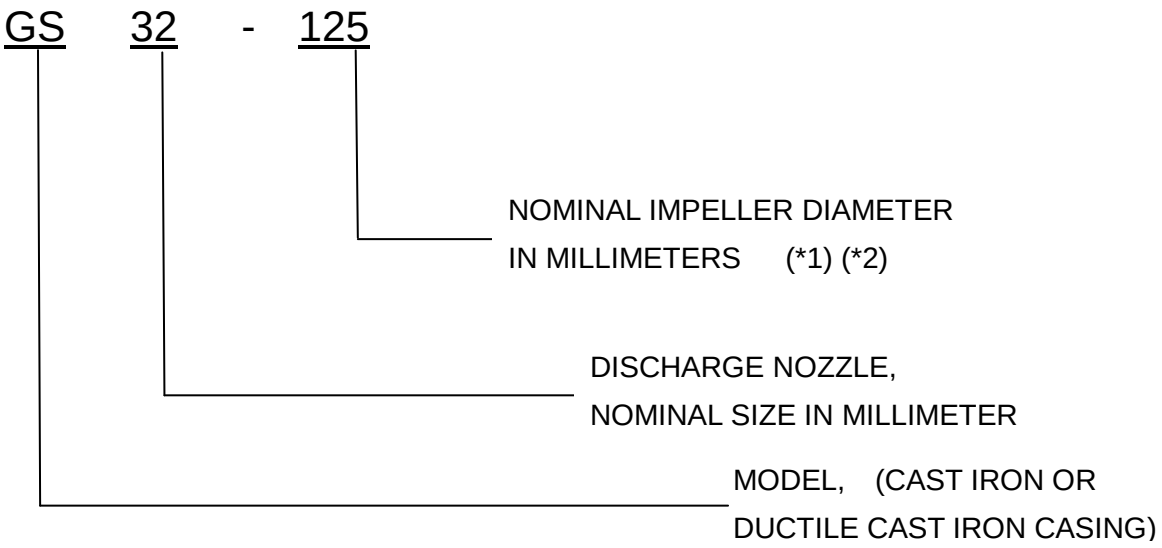
・Standard up to 140℃

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

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SPECIFICATION - Designation

The following designation is system according to EN733.



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

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

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SPECIFICATION - Applicable Model

Applicable Model ● : Applicable

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

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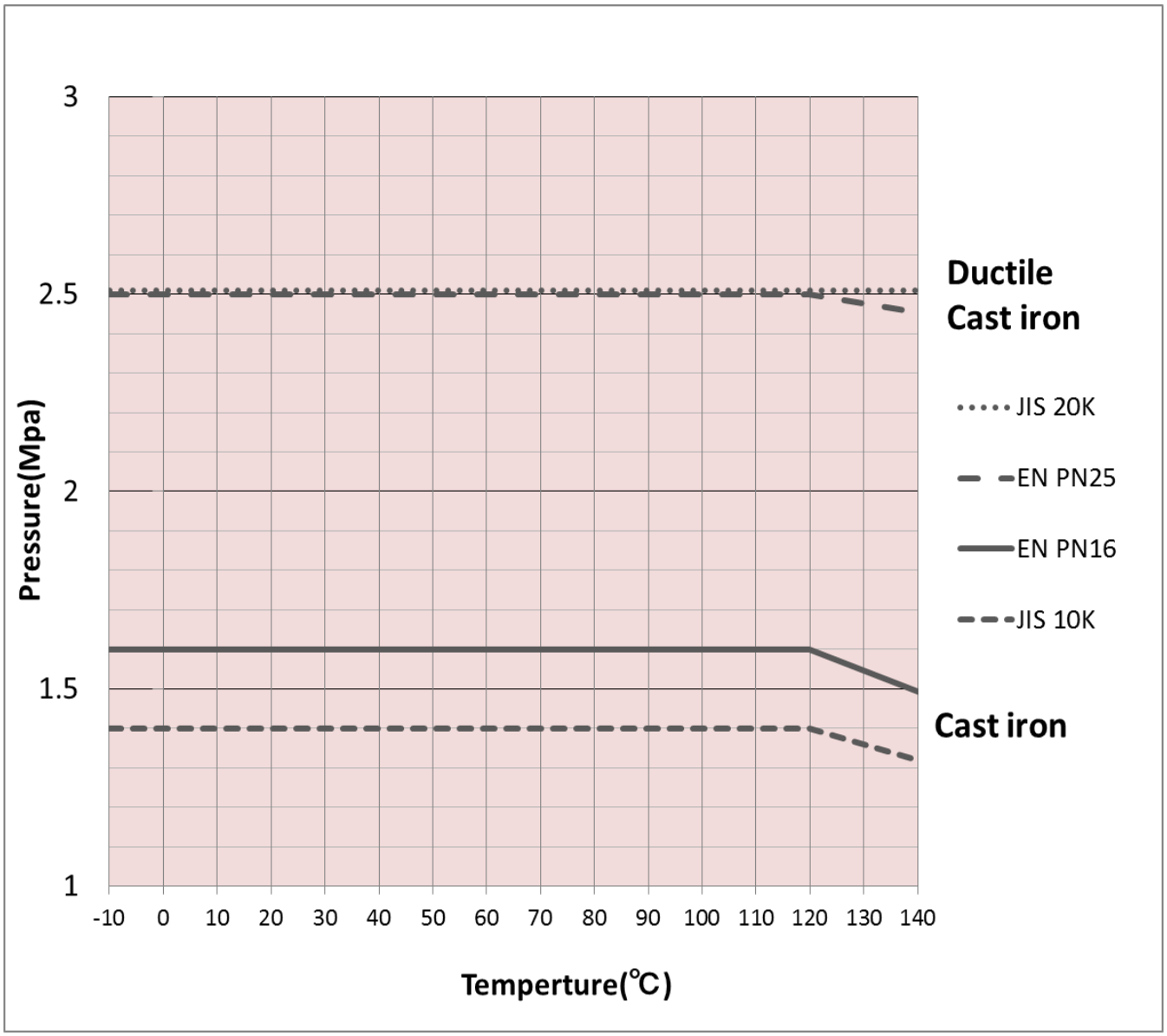
TECHNICAL DATA – Shaft No. and Shaft Diameter

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

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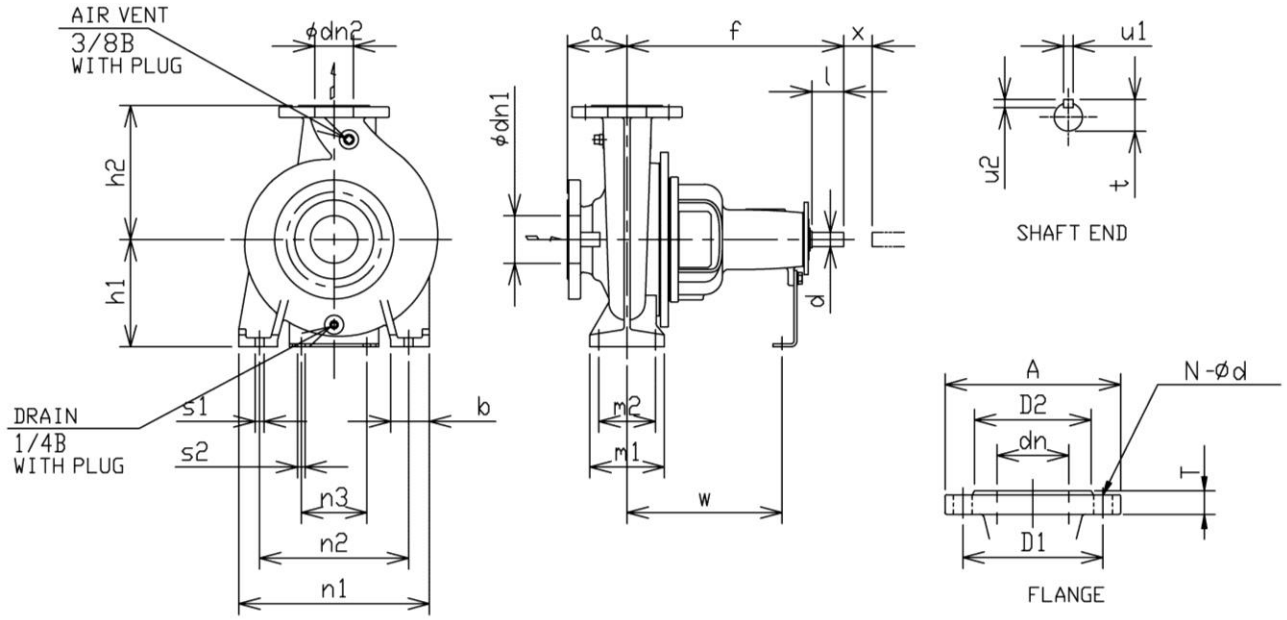
TECHNICAL DATA - Maximum Working Pressure

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



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DIMENSIONS - Dimensions of Bare Shaft Pump



Flange Dimension

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

Unit: mm

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

Flange Standard: **JIS 10K**

Unit: mm

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

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

Unit: mm

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

Flange Standard: **JIS 20K**

Unit: mm

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

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DIMENSIONS - Dimensions of Bare Shaft Pump

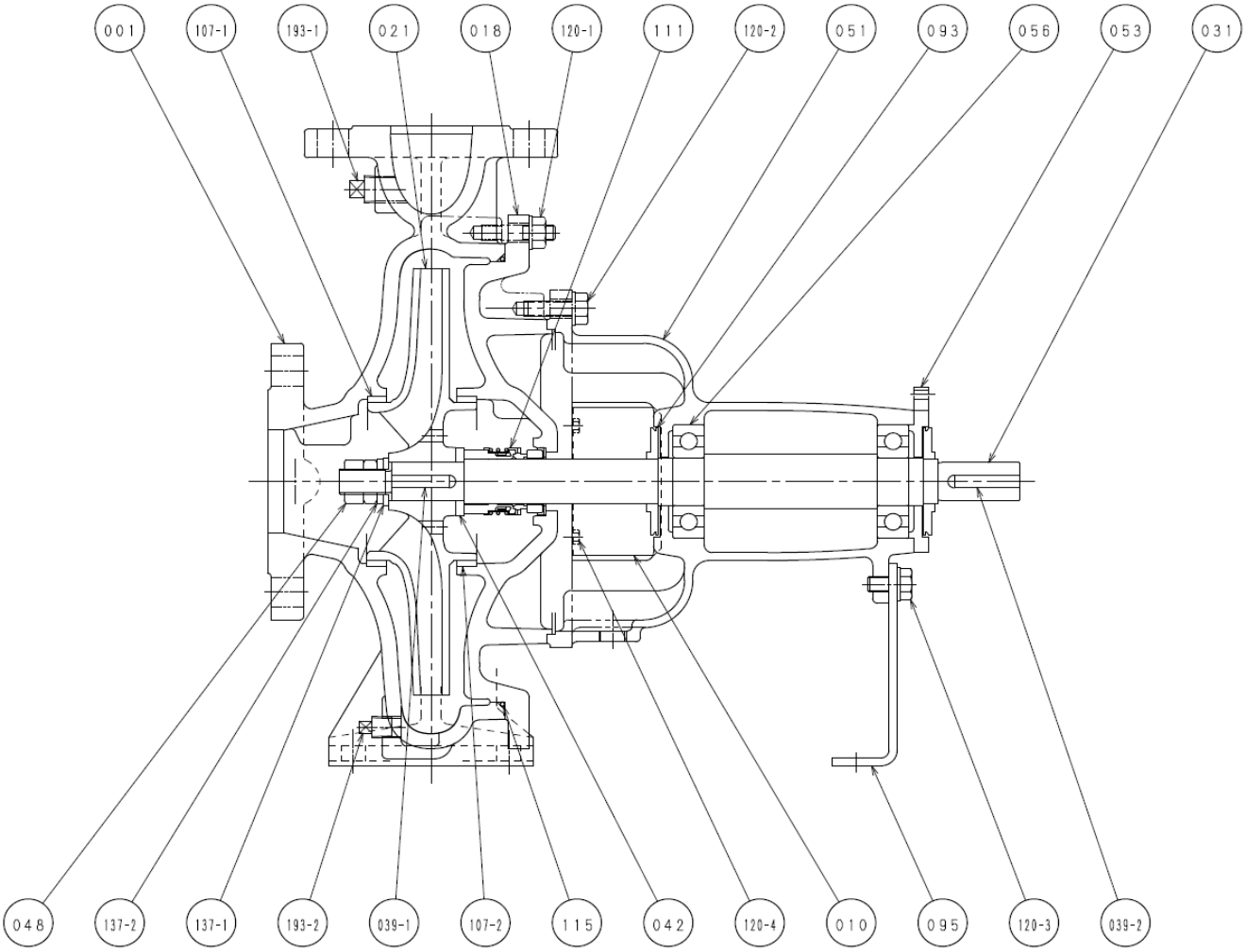
Dimensions of Bare Shaft Pump

Unit: mm

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

EBARA reserves the right to make changes without prior notice.

CONSTRUCTION - Sectional view (Mechanical Seal Type)



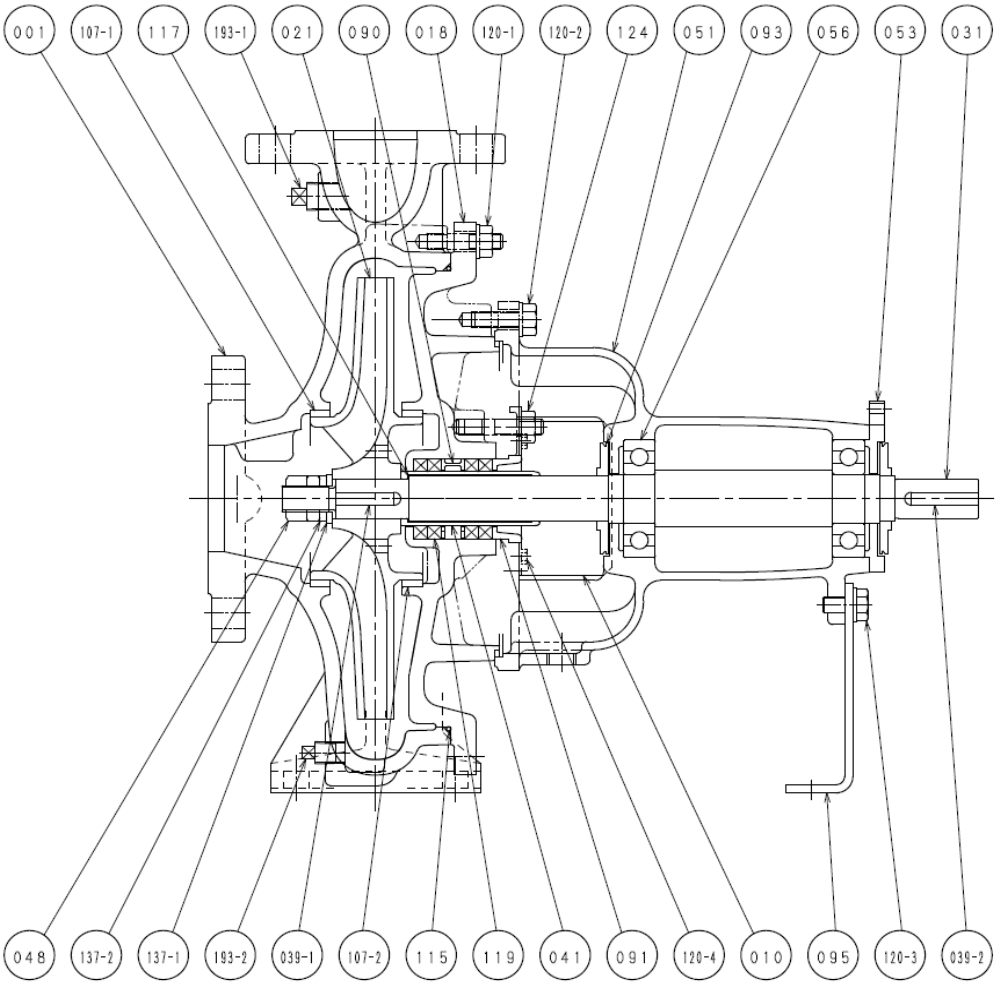
Mechanical Seal Type

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	IMPELLER NUT	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
137-1	PLAIN WASHER	1
137-2	SPRING LOCK WASHER	1
193-1	PLUG	1
193-2	PLUG	1

EBARA reserves the right to make changes without prior notice.

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	IMPELLER NUT	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
124	GLAND BOLT	2
137-1	PLAIN WASHER	1
137-2	SPRING LOCK WASHER	1
193-1	PLUG	1
193-2	PLUG	1

EBARA reserves the right to make changes without prior notice.

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 G1	G2	G3	G4
001	CASING	Cast iron	FC250	A278-35	EN-GJL-250(EN-JL1040)		●	●	●	●
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15(5.3106)		○	○	○	○
010	PROTECTOR	Carbon steel	SPCC	A569	DC01(1.0330)		●	●	●	●
018	CASING COVER (conical)	Cast iron	FC250	A278-35	EN-GJL-250(EN-JL1040)		●	●	●	●
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15(5.3106)		○	○	○	○
021	IMPELLER	Cast iron	FC200	A278-30	EN-GJL-200(EN-JL1030)	(*1)	●	●		
		Ductile cast irons	FCD400	A536-60-40-18	EN-GJS-400-15(5.3106)	(*2)	●	●		
		Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5(CC491K)				●	
		304 Stainless steel	SCS13	A351-CF8	GX5CrNi19-10(1.4308)					○
031	SHAFT	Cr. steel	SUS431eq.	A276-431	X17CrNi16-2(1.4057)	or SUS420J2/A276-420 eq. / X30Cr13 (1.4028) eq.	●	●	●	
		Duplex stainless steel	SUS329J3L	A276-S31803	X2CrNiMoN22-5-3(1.4462)	(*3)				○
039-1	KEY	12% Cr. steel	SUS420J2	A276-420	X30Cr13(1.4028)		●	●	●	
		316 Stainless steel	SUS316	A276-316	X5CrNiMo17-12-2(1.4401)					○
039-2	KEY	Carbon steel	S50C	A576-1050	C50(1.0540)		●	●	●	●
042	SPACER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
048	IMPELLER NUT	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
051	BEARING HOUSING	Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)		●	●	●	●
053	BEARING COVER	Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)		●	●	●	●
056	BALL BEARING	Steel	---	---	---	(*4)	●	●	●	●
093	DEFLECTOR	EPDM	---	---	---		●	●	●	●
095	STAY	Carbon steel	SPHC	A569	---		●	●	●	●
107	CASE WEAR RING	Bronze	CAC406	B584-C83600	CuSn5Zn5Pb5(CC491K)		●		●	
		Cast iron	FC150	A48-20	EN-GJL-150(EN-JL1020)			●		●
111	MECHANICAL SEAL	Sic/carbon/FKM	---	---	---	Elastomer bellows seal	●	●	●	●
		Sic/carbon/EPDM	---	---	---		○	○	○	○
		Tc/carbon/EPDM	---	---	---	O ring/Spring	○	○	○	○
		Sic/Sic/	---	---	---		○	○	○	○
115	O-RING	NBR	---	---	---		●	●	●	●
		FKM	---	---	---	Viton	○	○	○	○
		EPDM	---	---	---		○	○	○	○
120	BOLTS	Carbon steel	SS	A283-D	---		●	●	●	●
137-1	PLAIN WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
137-2	SPRING LOCK WASHER	304 Stainless steel	SUS304	A276-304	X5CrNi18-10(1.4301)		●	●	●	●
193-1	PLUG	Carbon steel	SS	A283-D	---		●	●	●	●
193-2	PLUG	Carbon steel	SS	A283-D	---		●	●	●	●

(*1) Except pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500, impellers made of cast iron are applied for all pumps.
(*2) Impellers made of ductile cast iron are applied only the pumps model GS100-400, 125-400, 125-500, 150-400, 150-500, 200-400 and 200-500.
(*3) Wetted part only
(*4) Deep groove ball bearing,single row / Vacuum degassed steel

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Materials of gland packing application (*5)

● : Standard ○ : Optional

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

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

Explanation of Material Group

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

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CONSTRUCTION - Availability of Materials

Material availability depend on pump models and flange rating

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

□ : Available

◇, △ : Available with the following conditions

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

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

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CONSTRUCTION – Selection of Shaft Seal

Mechanical seal selection of conical type

Description		Standard	Optional	
Liquid temp (*2)(*4)		-10～120 ℃	-20～120 ℃	-25～140 ℃
Materials (*1)		SiC / C / FKM	SiC / C / EPDM	Tc / C / EPDM
Allowable operating pressure (*2)(*3)	Shaft no. 230,240,250,260	-0.5～24.5 bar (-0.05～2.45MPa)	-0.5～16 bar (-0.05～1.6MPa)	-0.2～25 bar (-0.02～2.5MPa)
	Shaft no. 270,280	-0.5～16 bar (-0.05～1.6MPa)		

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

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

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

Pbox = (0.05 X T.H.) + Ps

Pbox : Box pressure

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

Ps : Suction pressure

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

Gland packing

Gland packing material	Liquid temp (*2)	Shaft no.230,240,250		Shaft no.260,270,280	
		Max.speed	Allowable operating pressure(*2)(*3)	Max.speed	Allowable operating pressure(*2)(*3)
Silicone carbide fiber packing (P#6501L or P#6502L)	0～80℃	3600 min-1	6 bar (0.6 MPa)	1800 min-1	6 bar (0.6 MPa)

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

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

Pbox = (0.05 X T.H.) + Ps

Pbox : Box pressure

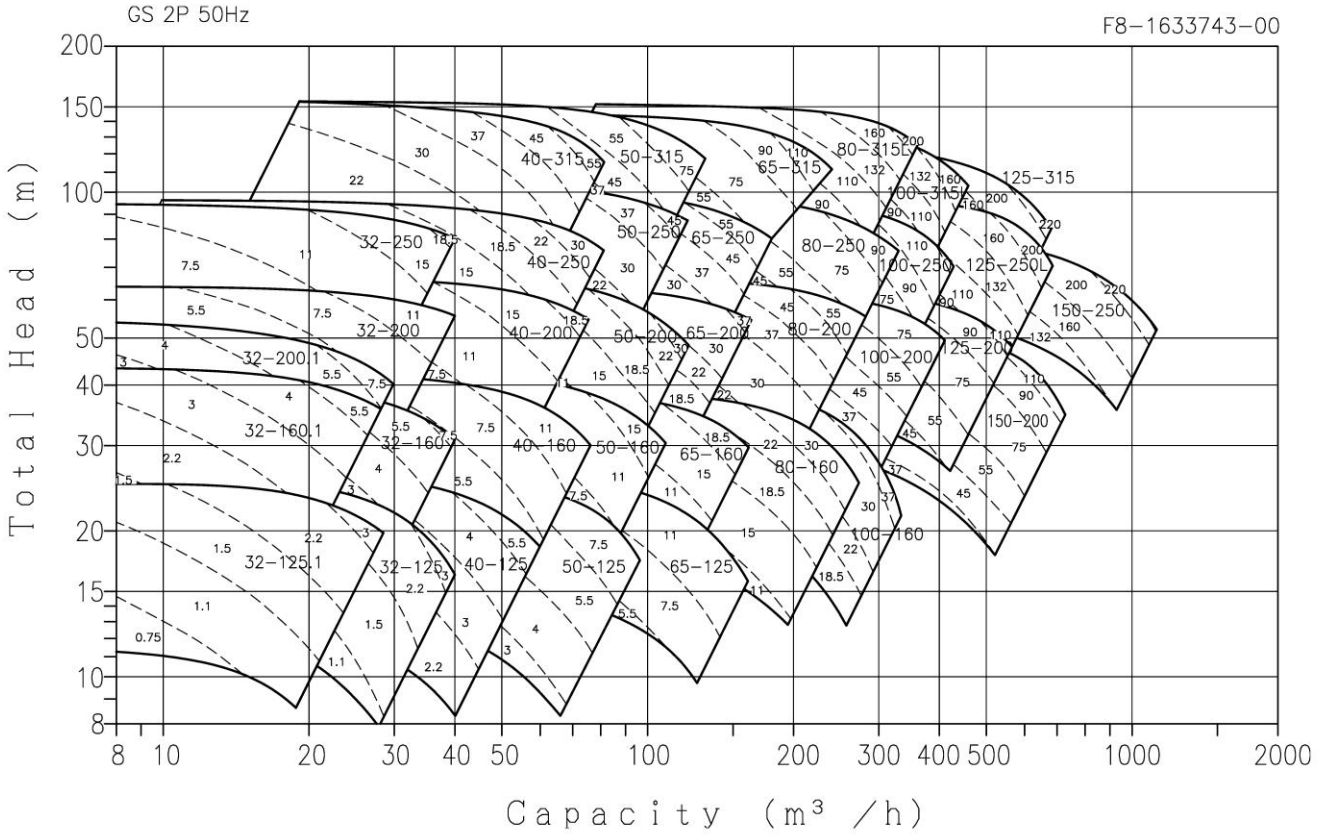
T.H. : Total head in pressure (Differential pressure)

Ps : Suction pressure

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SELECTION CHART

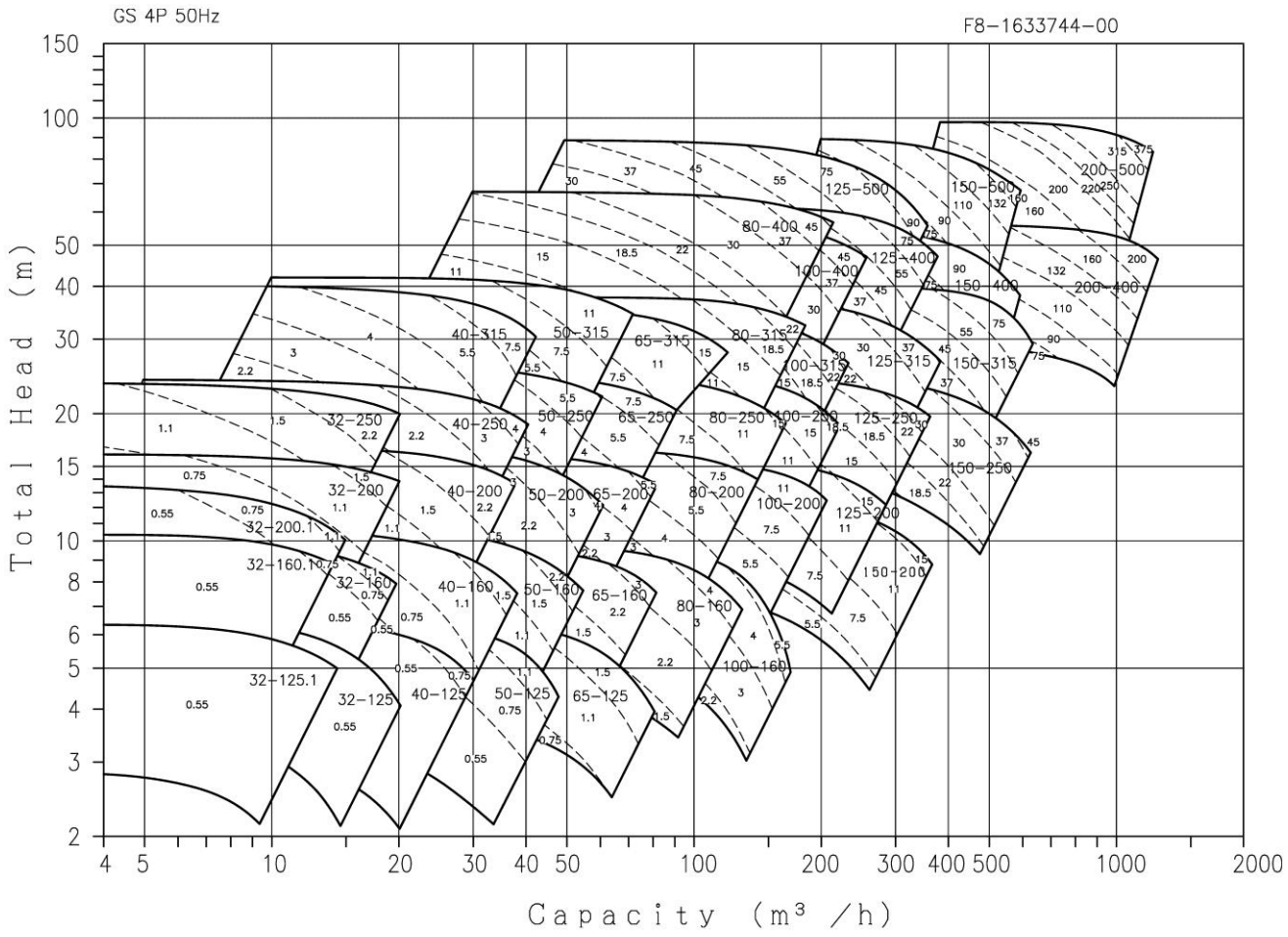
50Hz – 2900min^{-1}



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SELECTION CHART

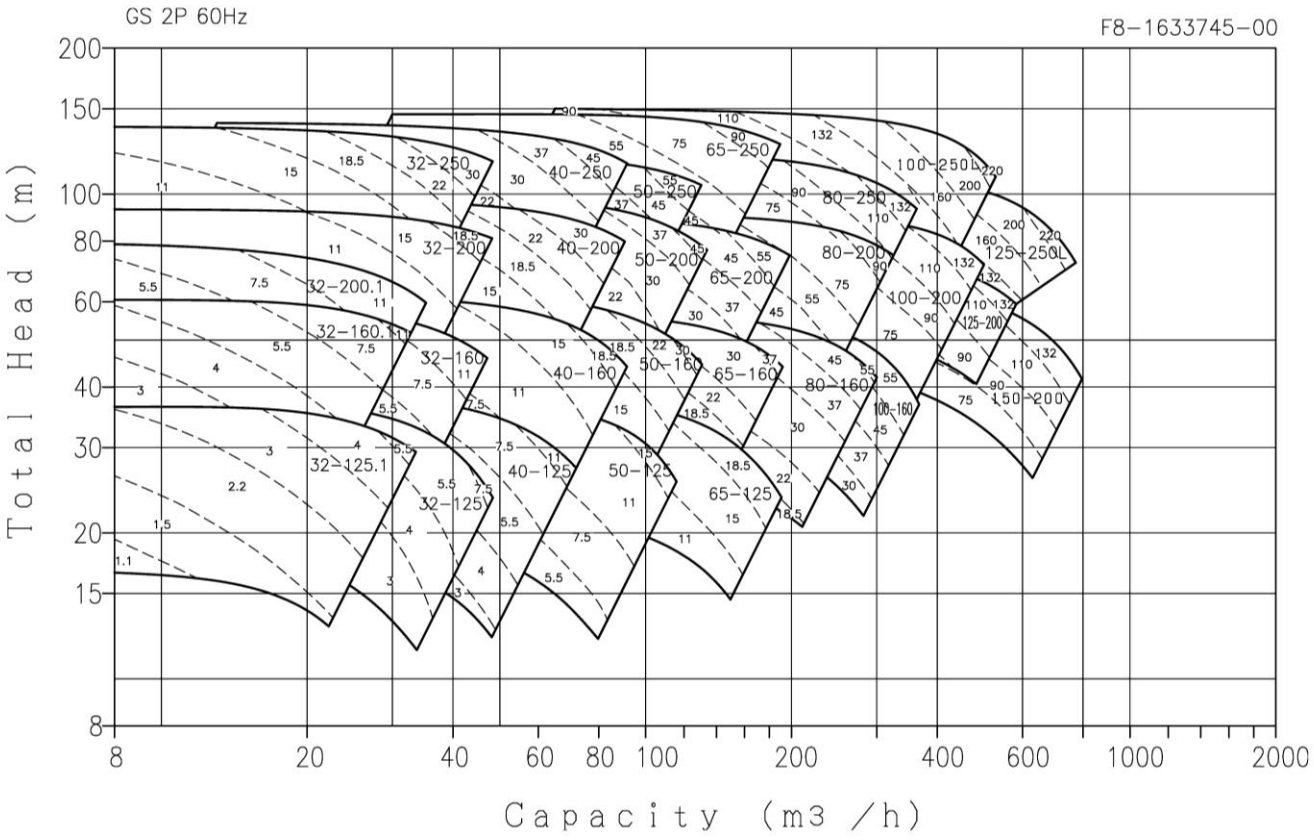
50Hz – 1450min^{-1}



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SELECTION CHART

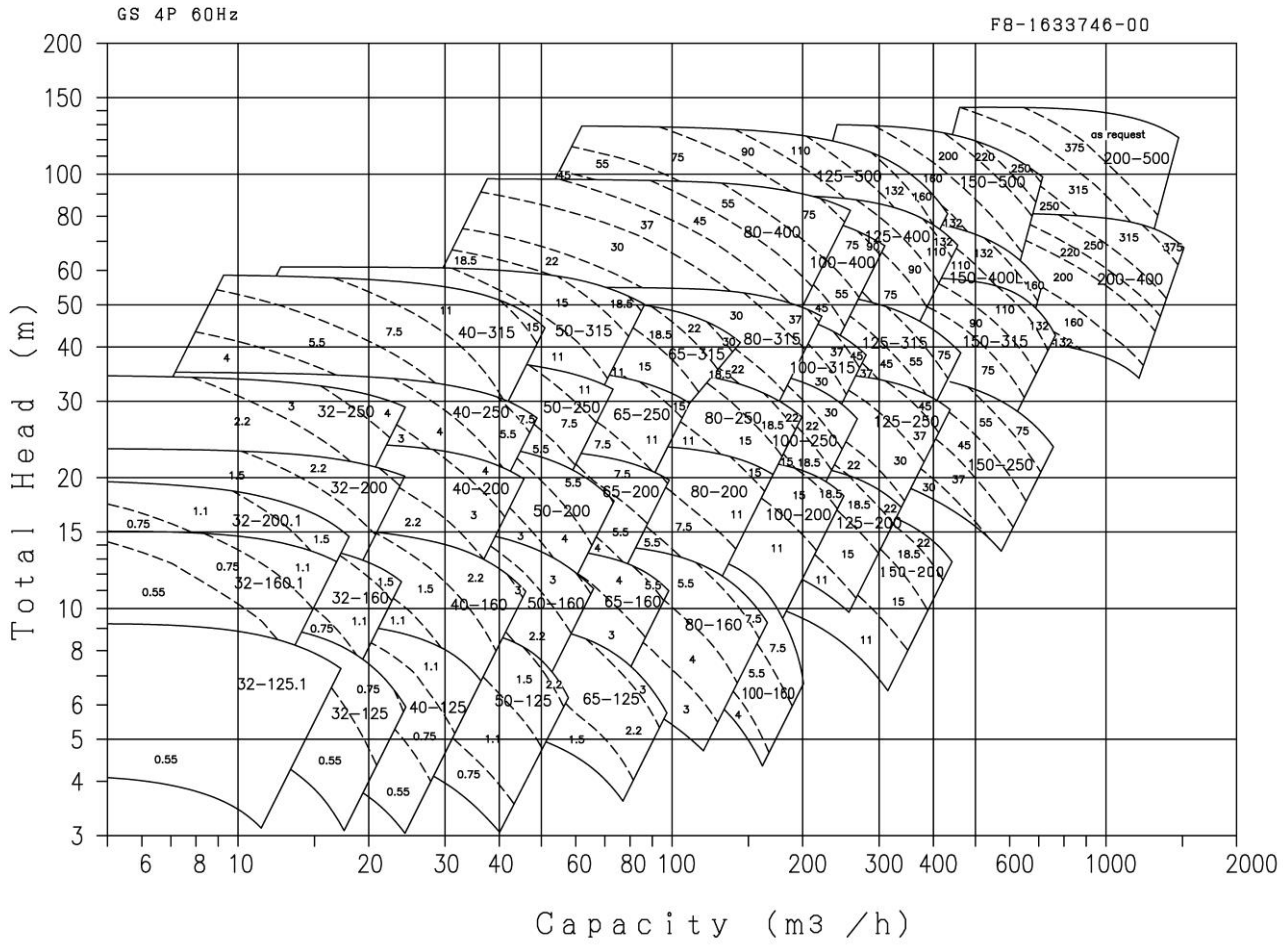
60Hz – 2900min^{-1}



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SELECTION CHART

60Hz – 1450min^{-1}



EBARA reserves the right to make changes without prior notice.

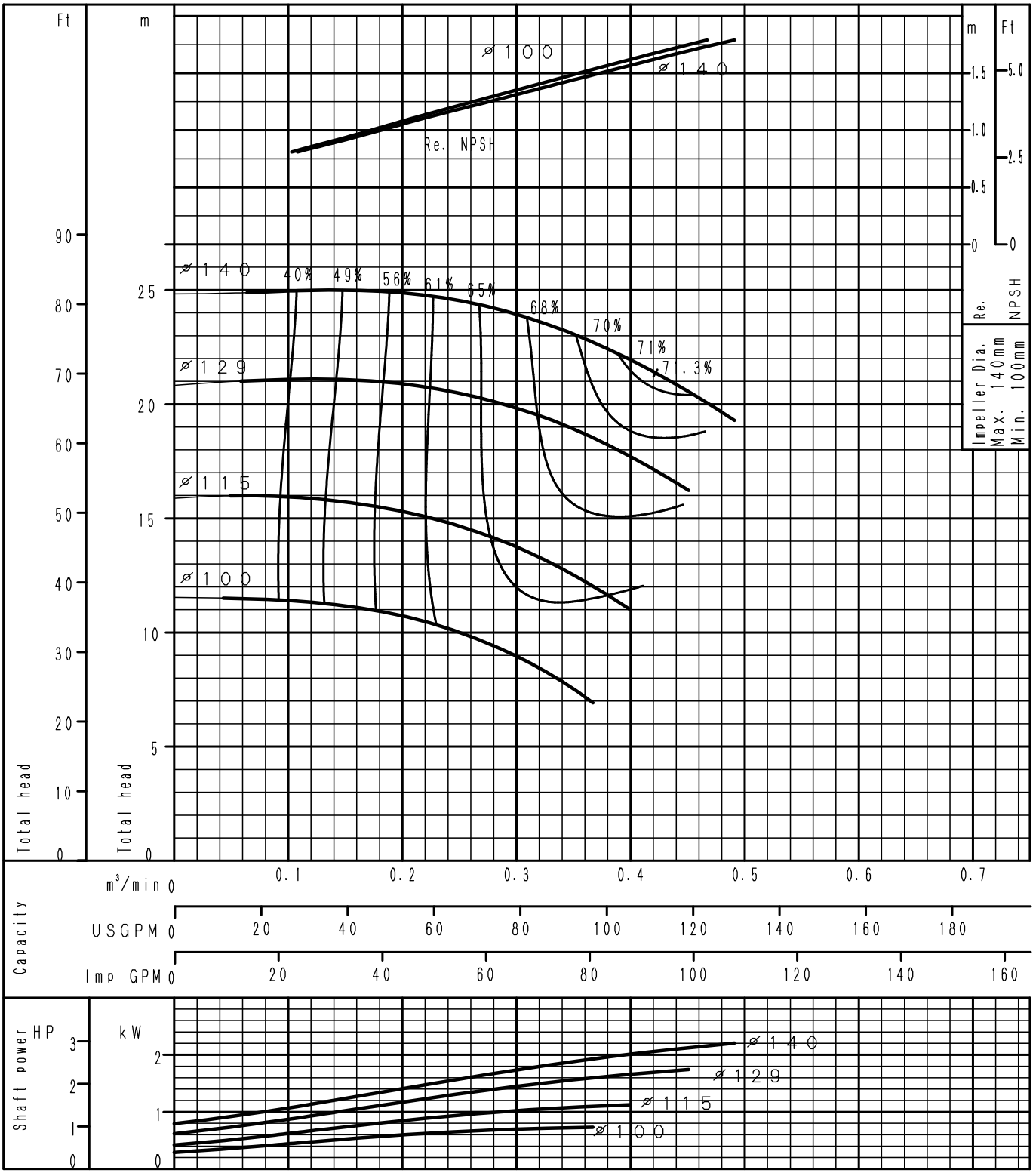
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-125.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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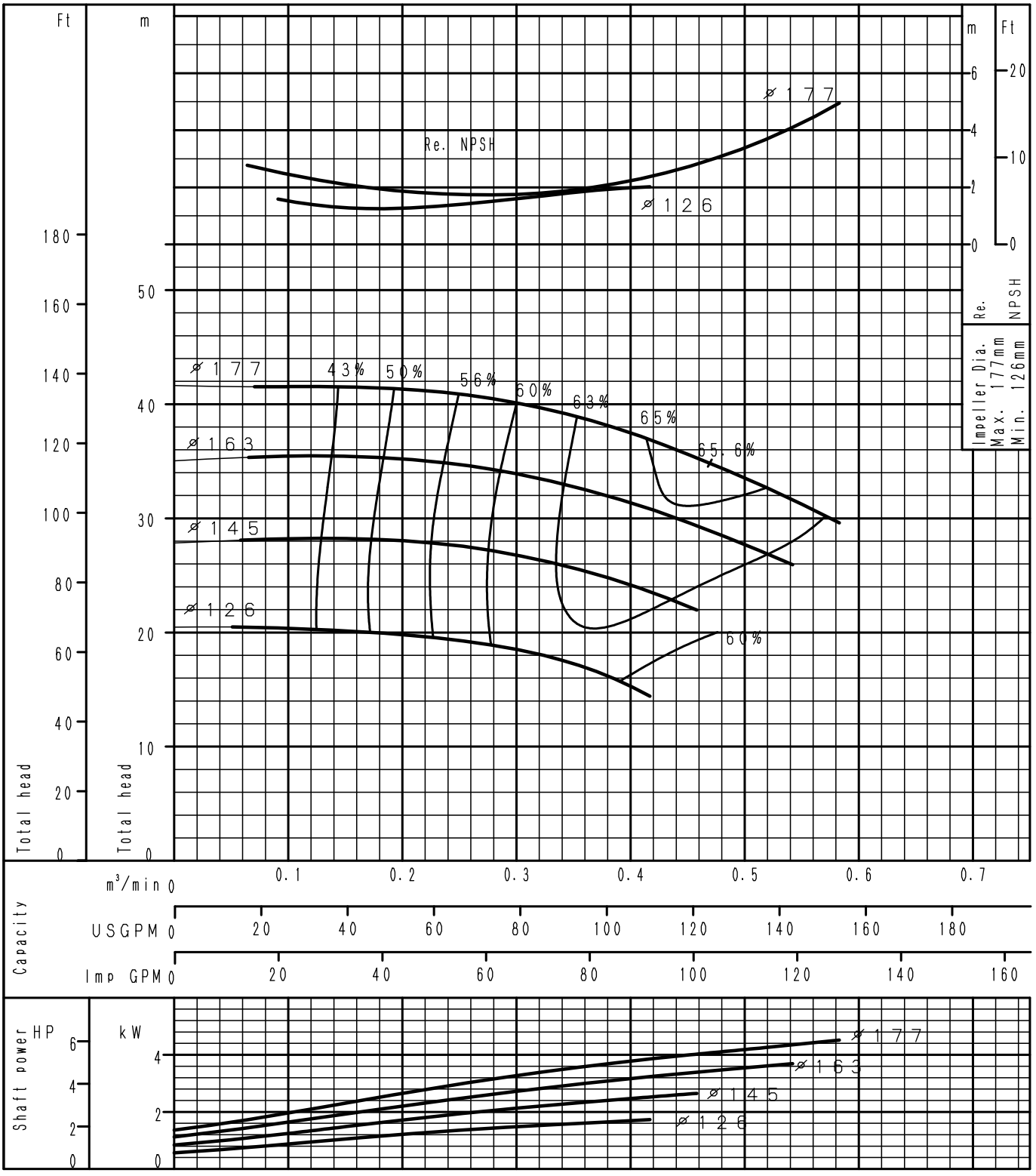
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-160.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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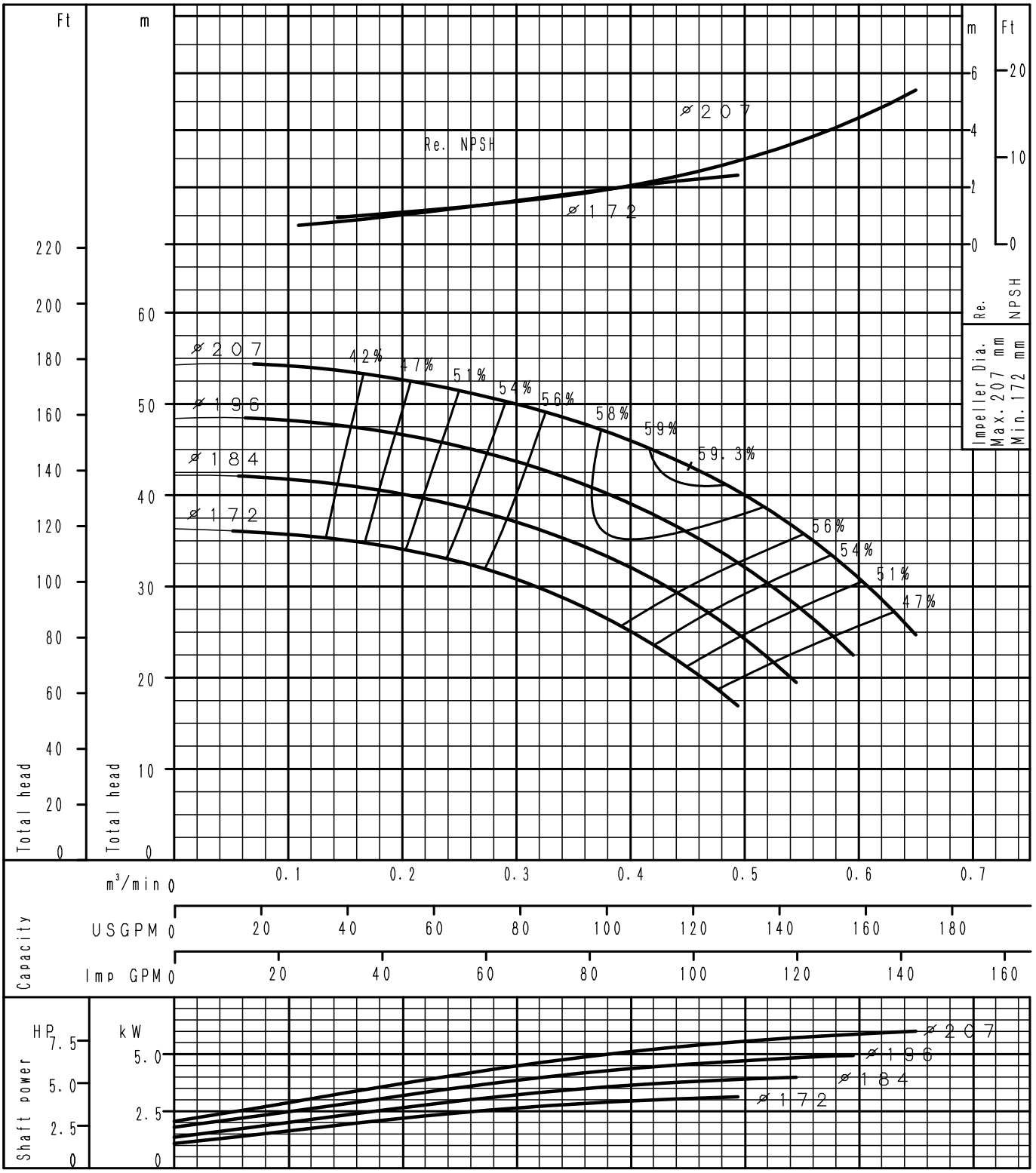
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-200.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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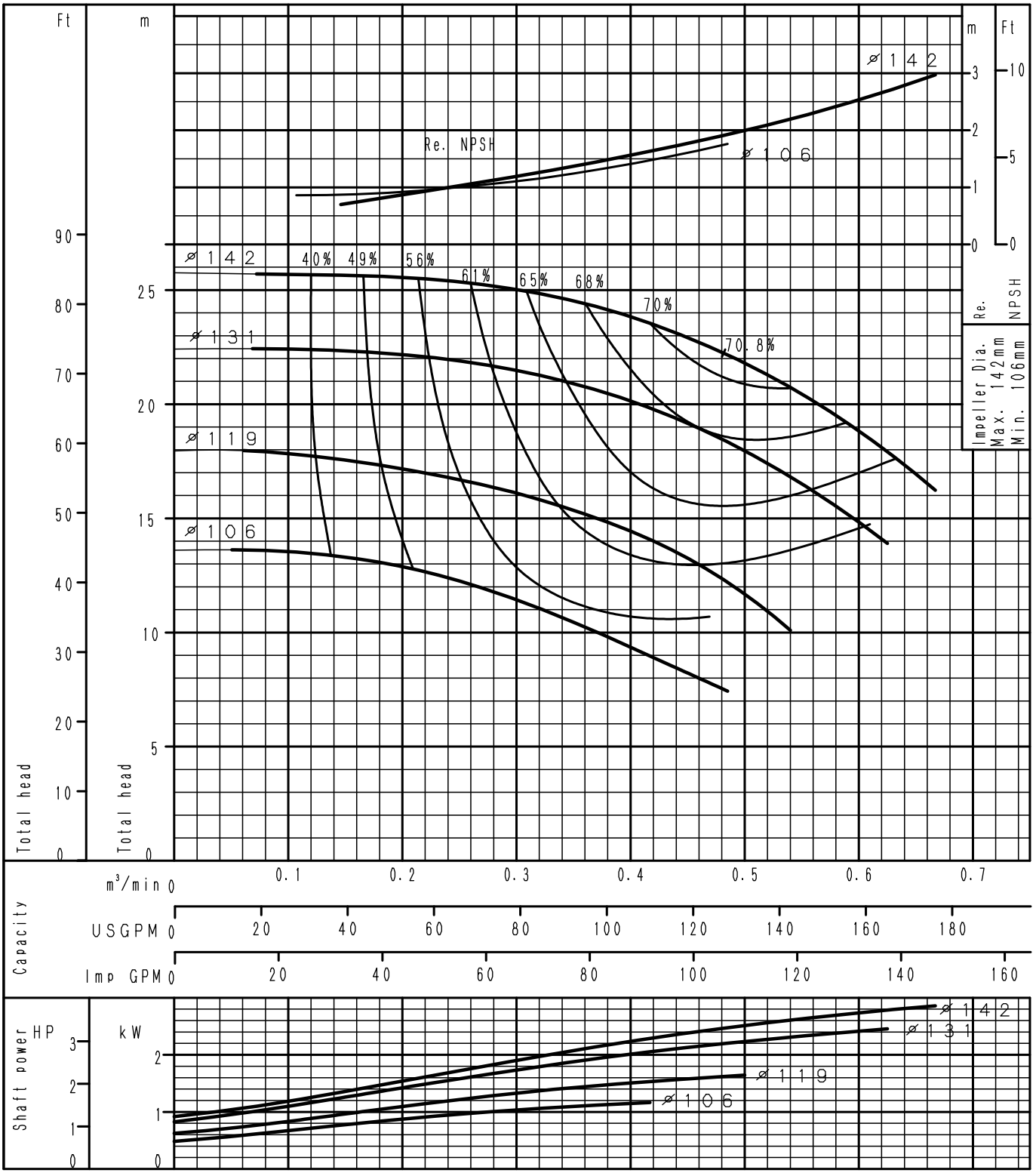
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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EBARA CORPORATION

F8-1632143-00

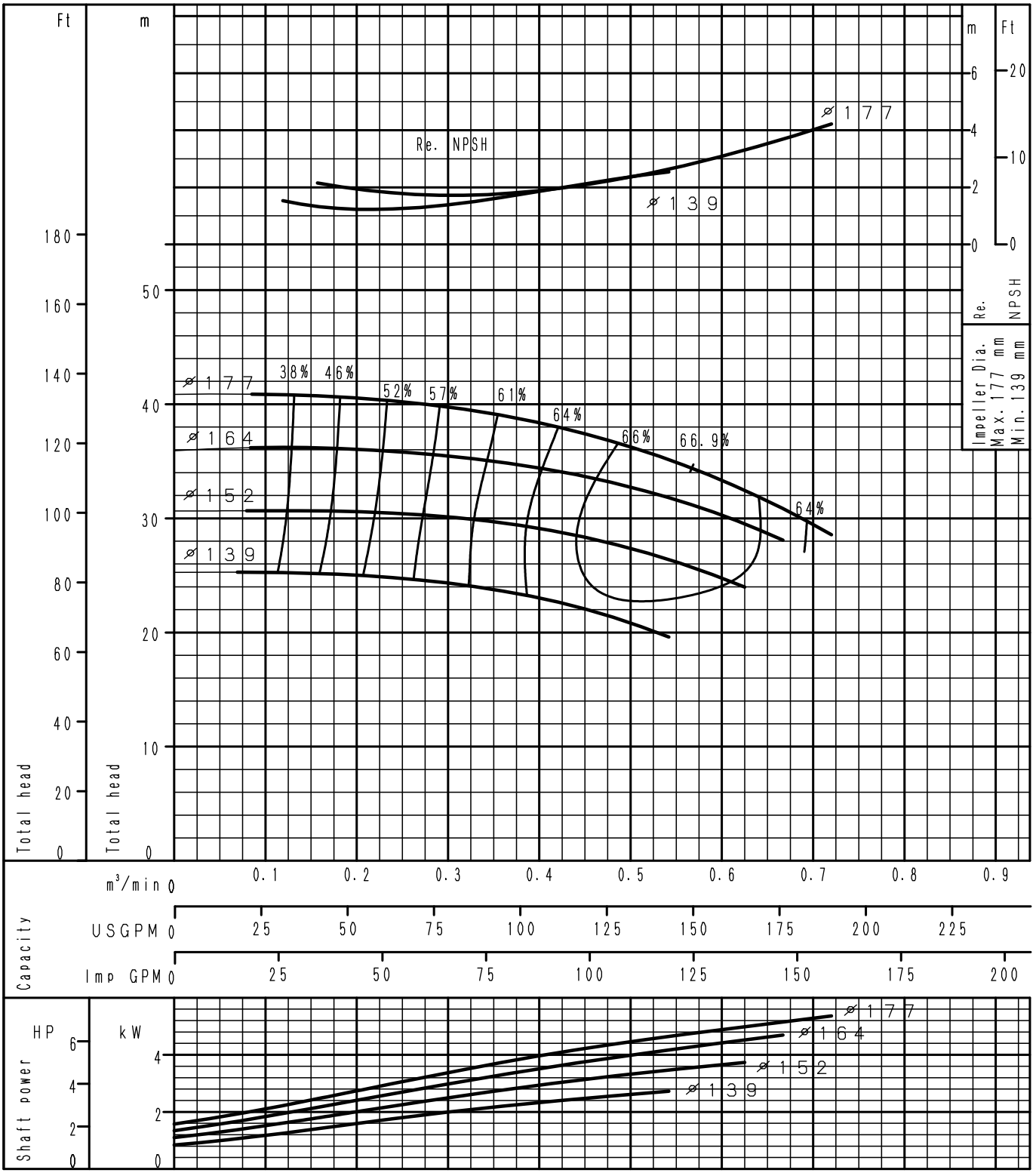
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632144-00

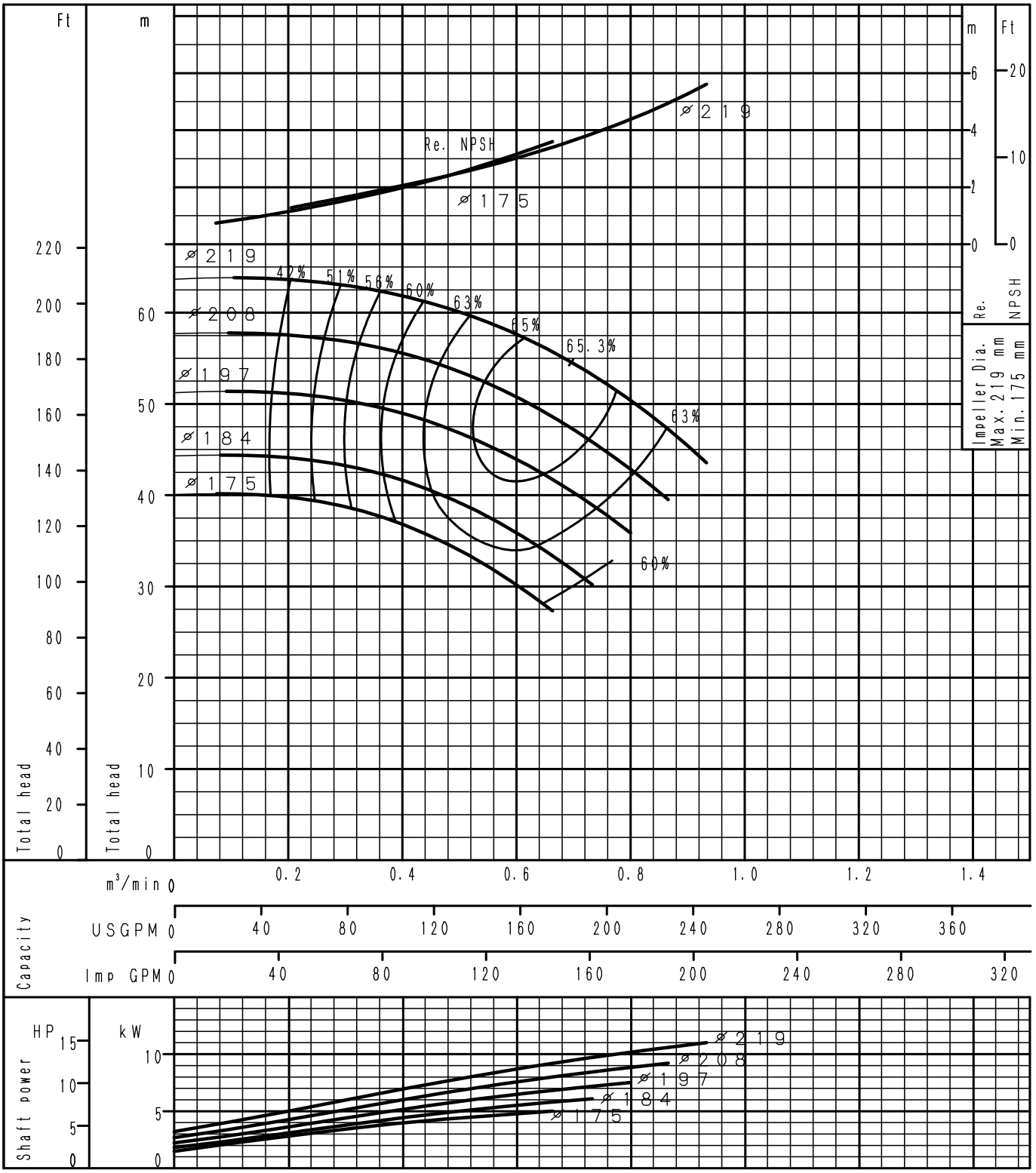
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632145-00

EBARA

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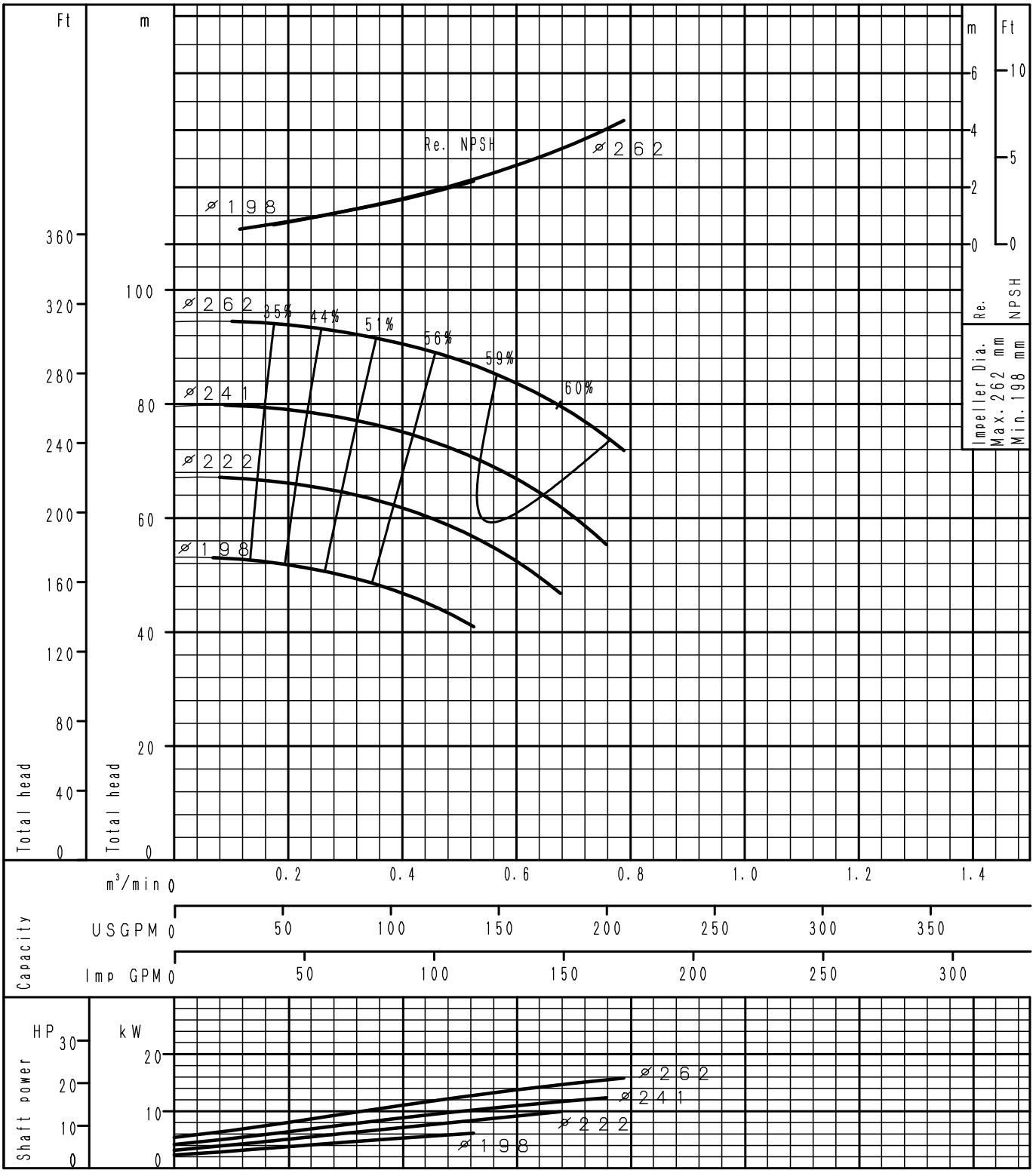
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS32-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632146-00

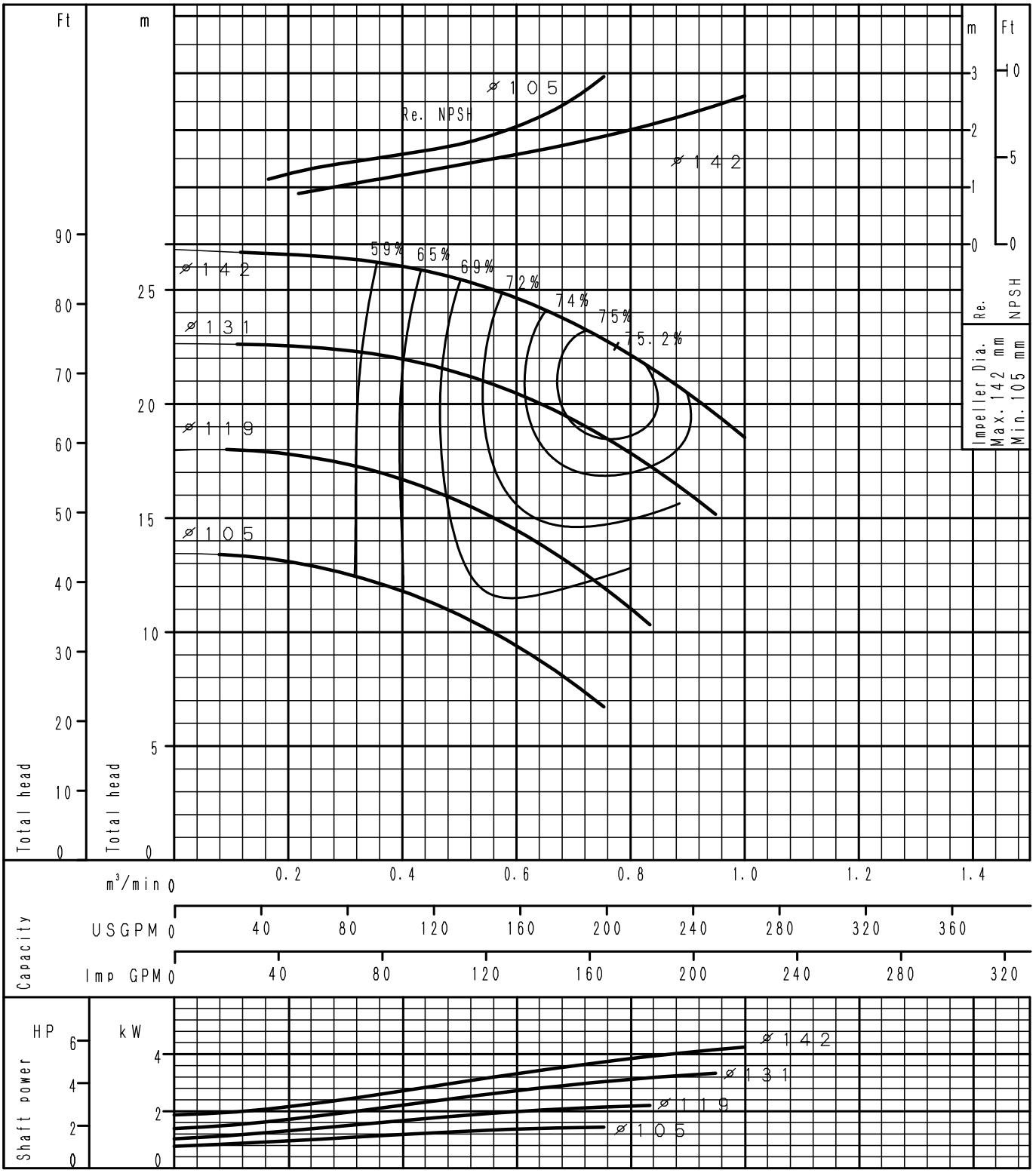
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS40-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632147-00

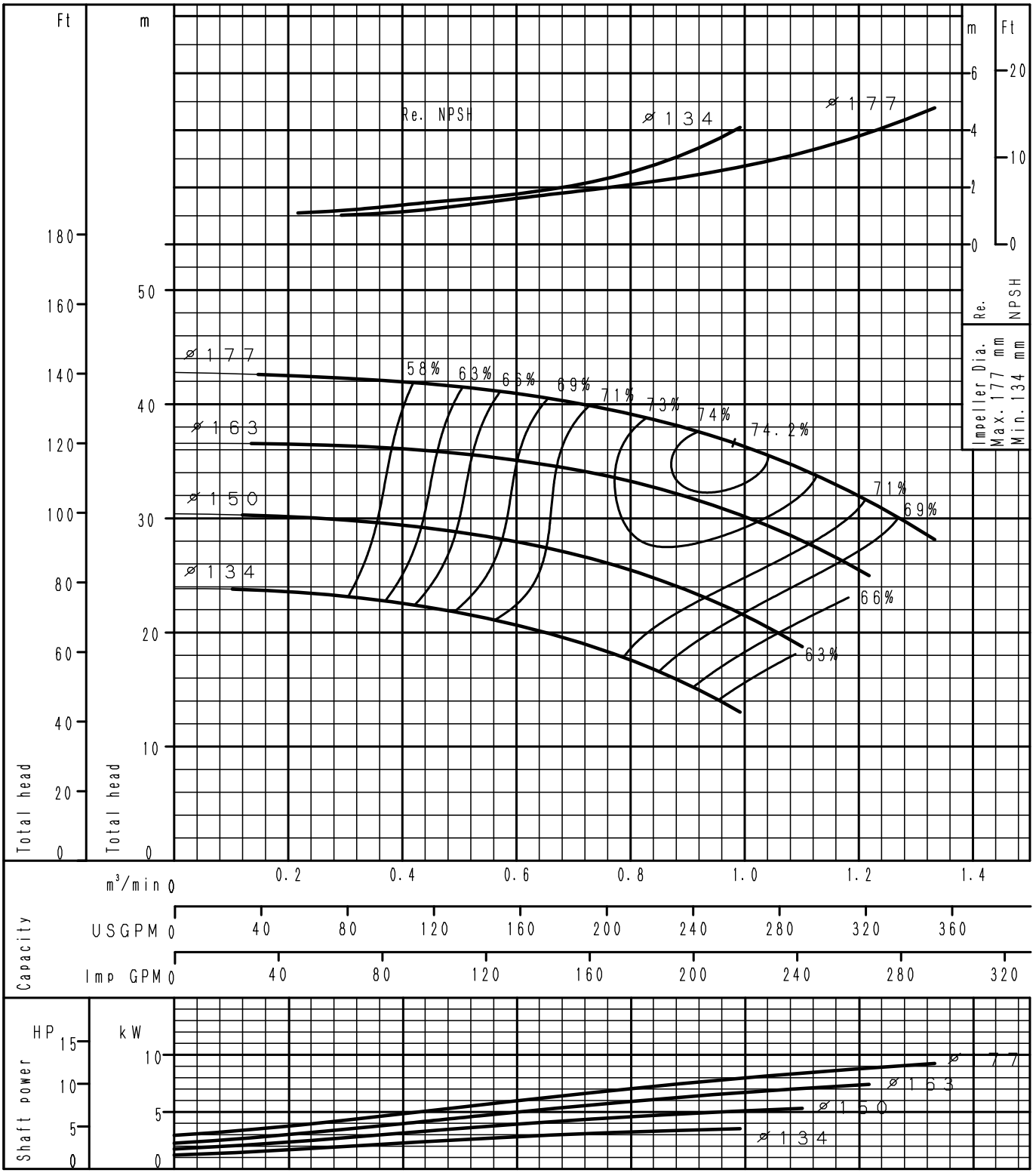
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS40-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632148-00

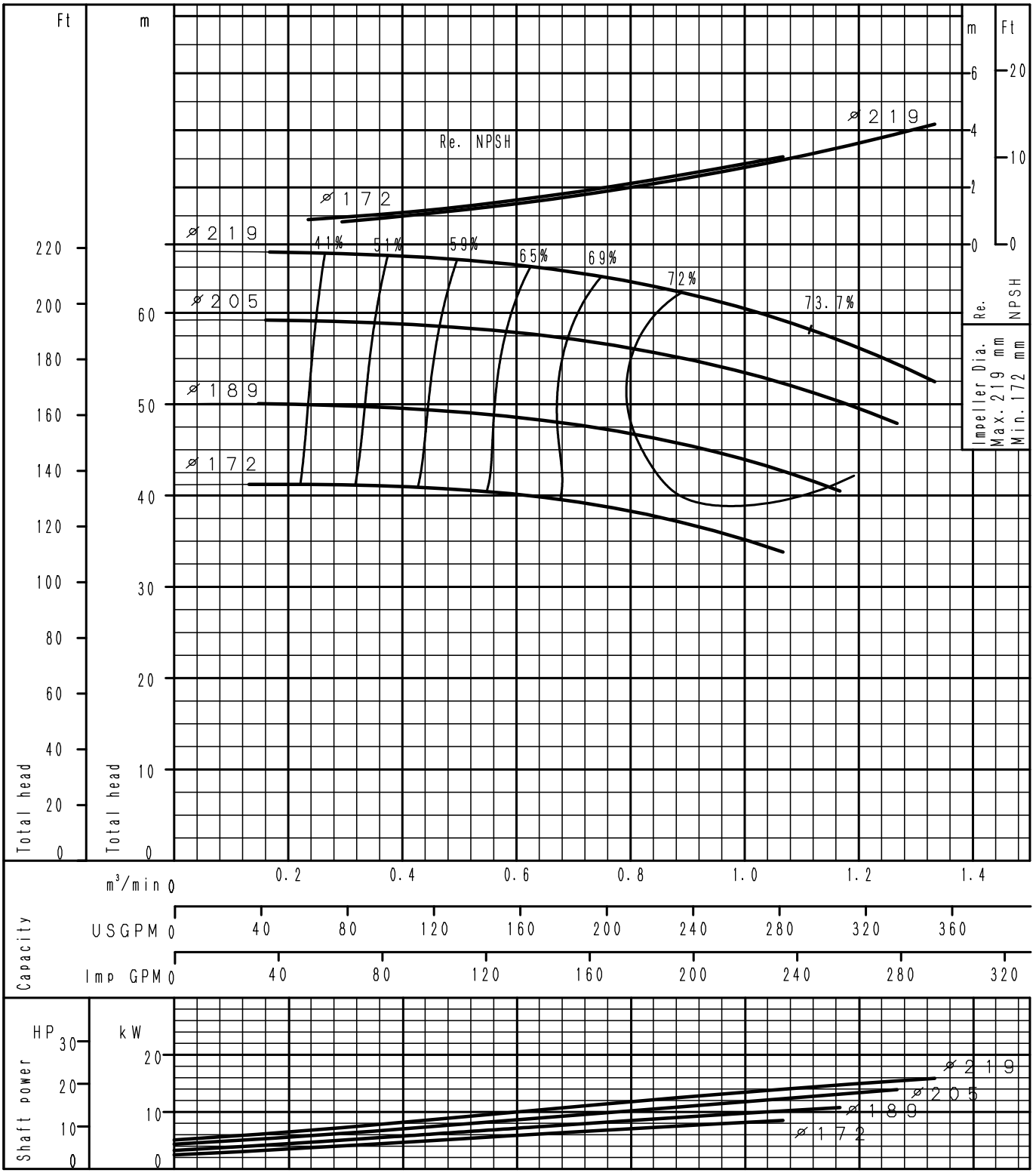
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS40-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632149-00

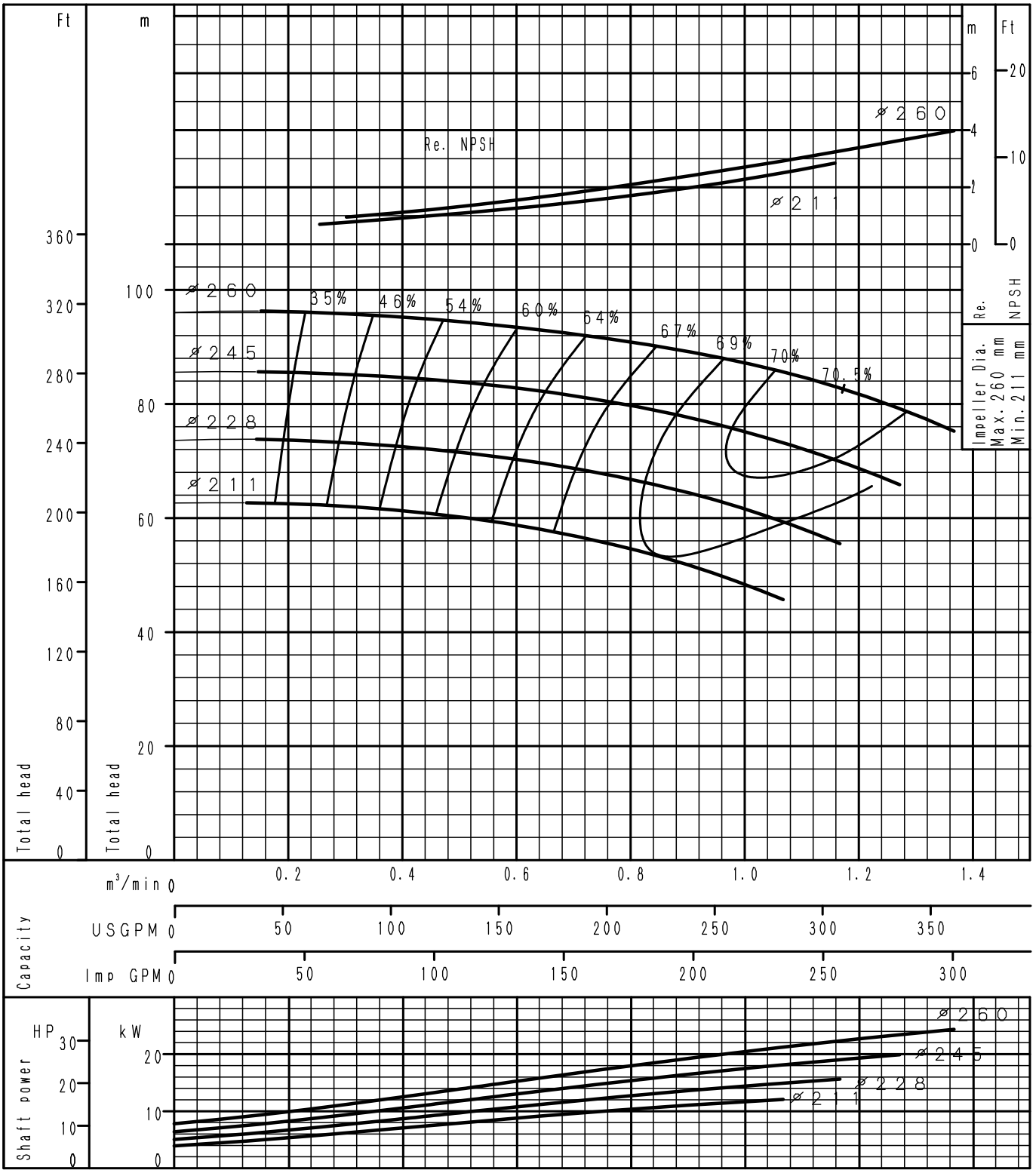
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS40-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632150-00

EBARA

EBARA CORPORATION

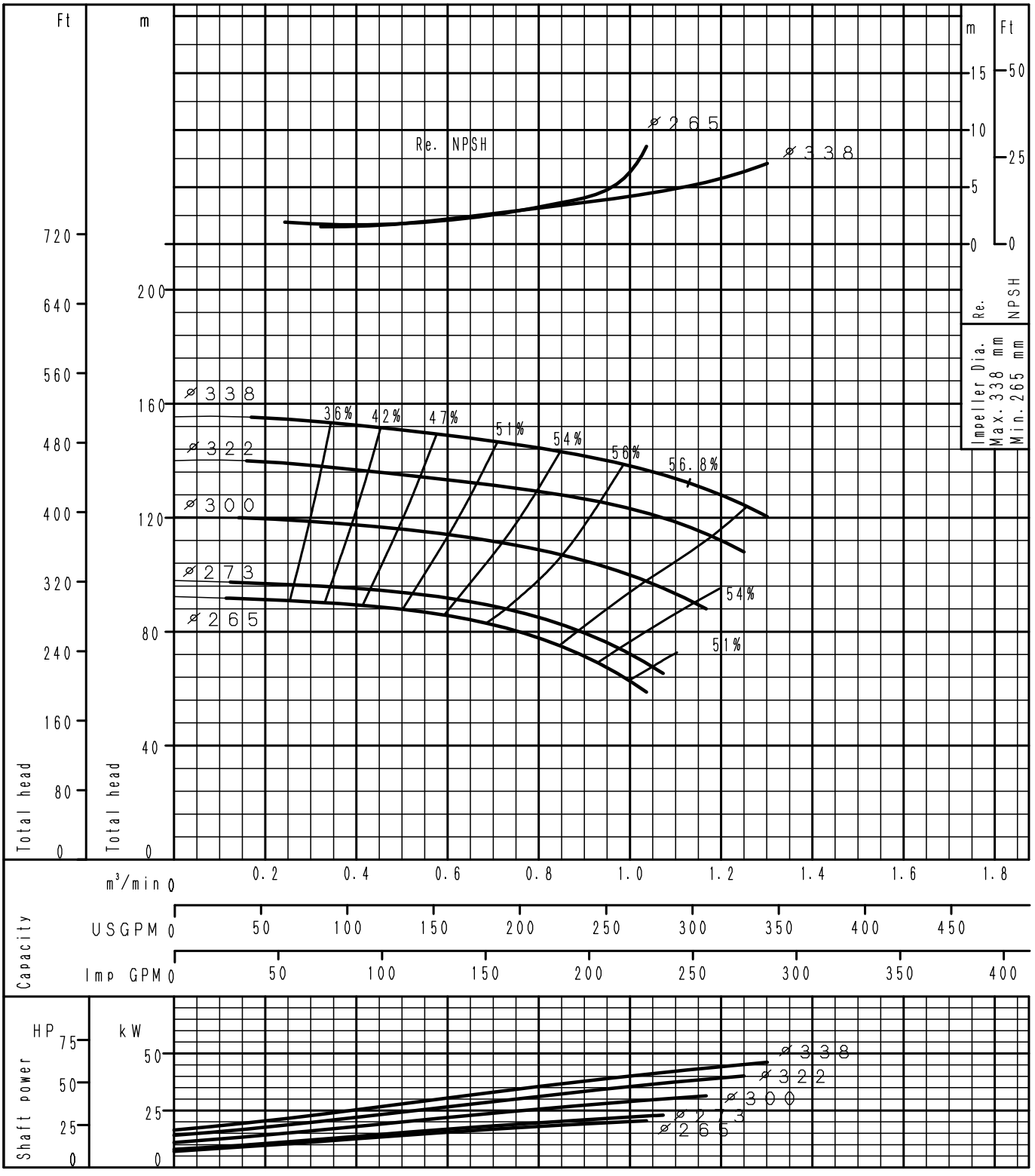
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS40-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632151-00

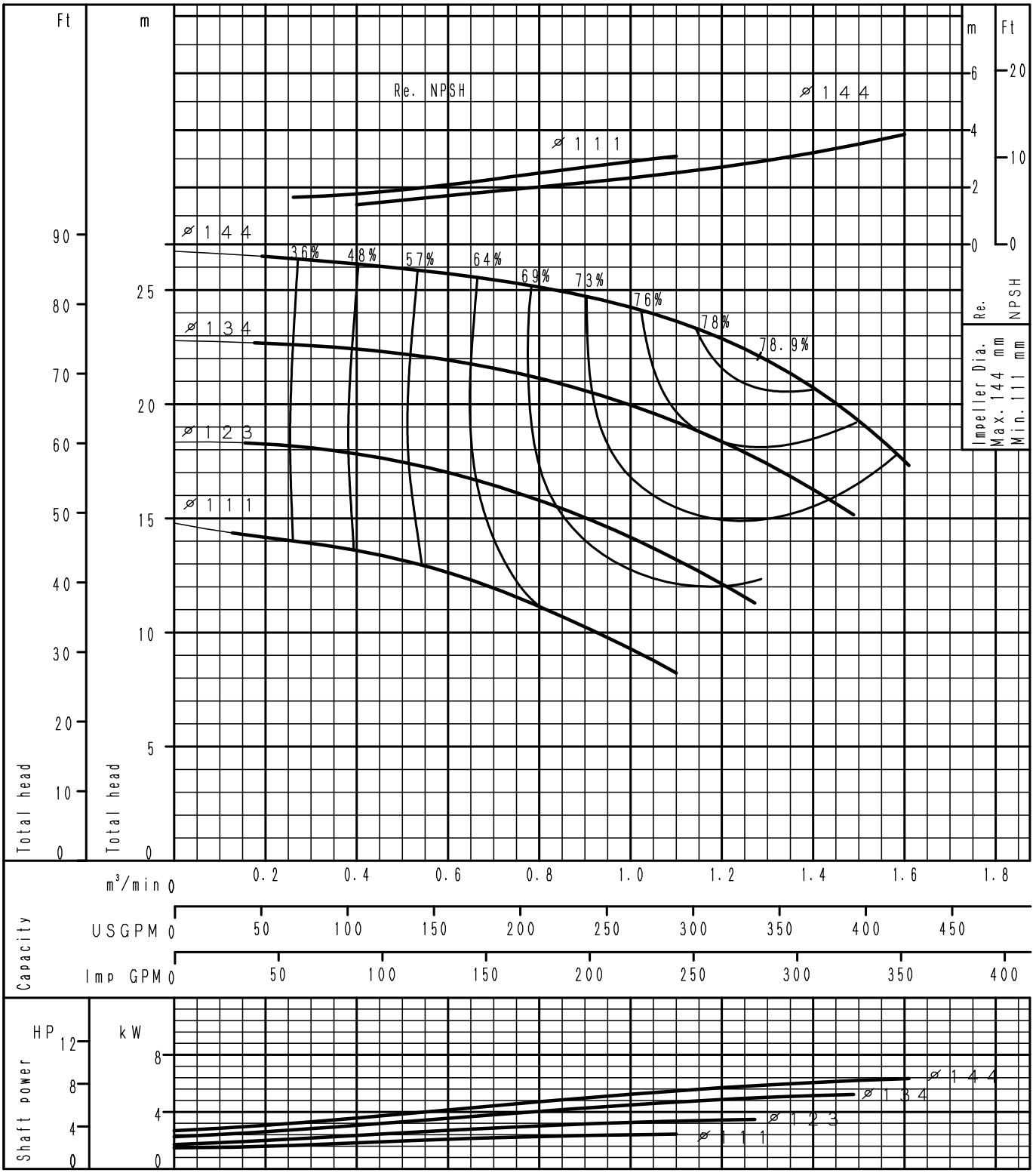
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS50-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632152-00

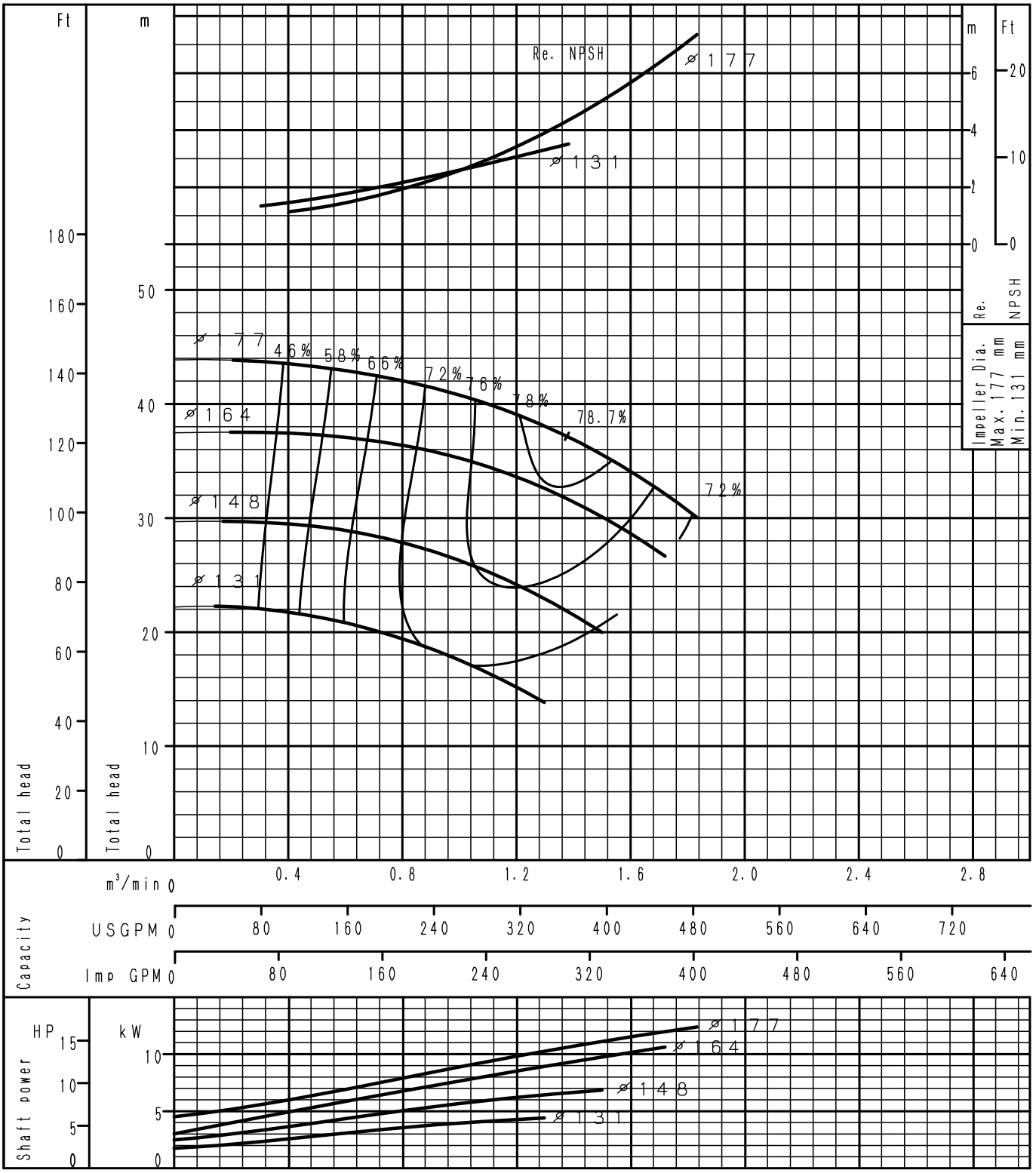
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS50-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632153-00

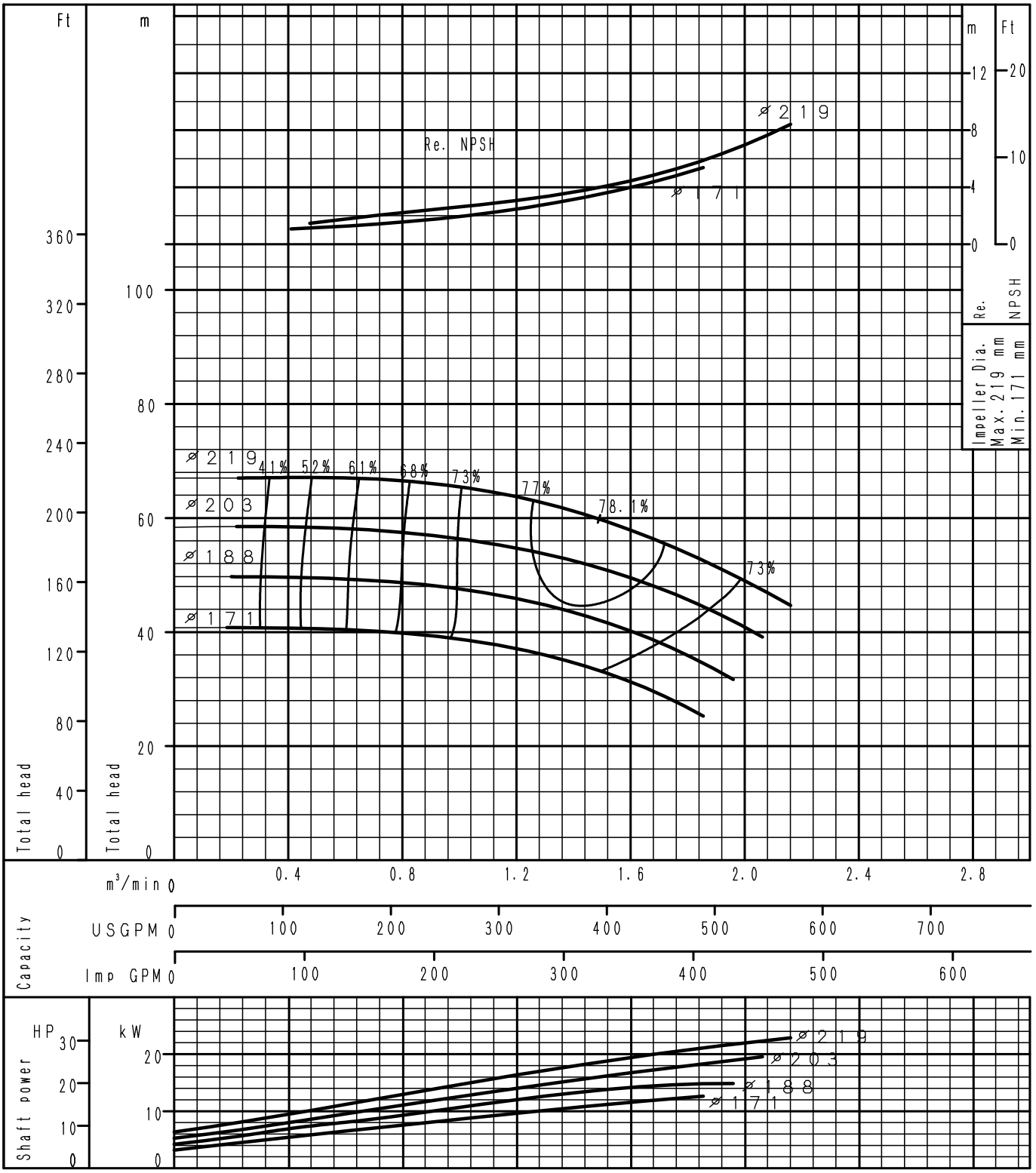
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS50-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632154-00

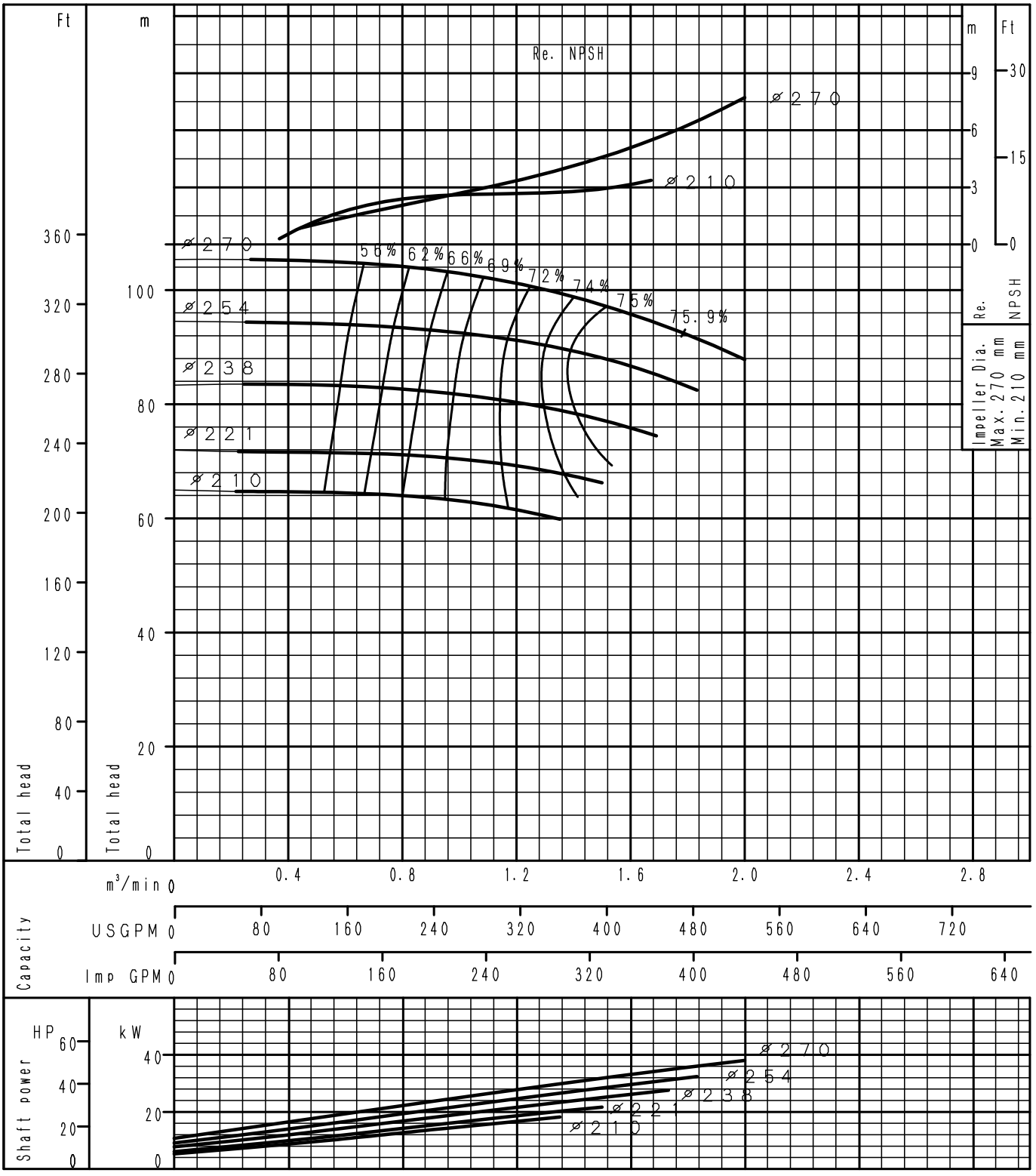
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS50-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632155-00

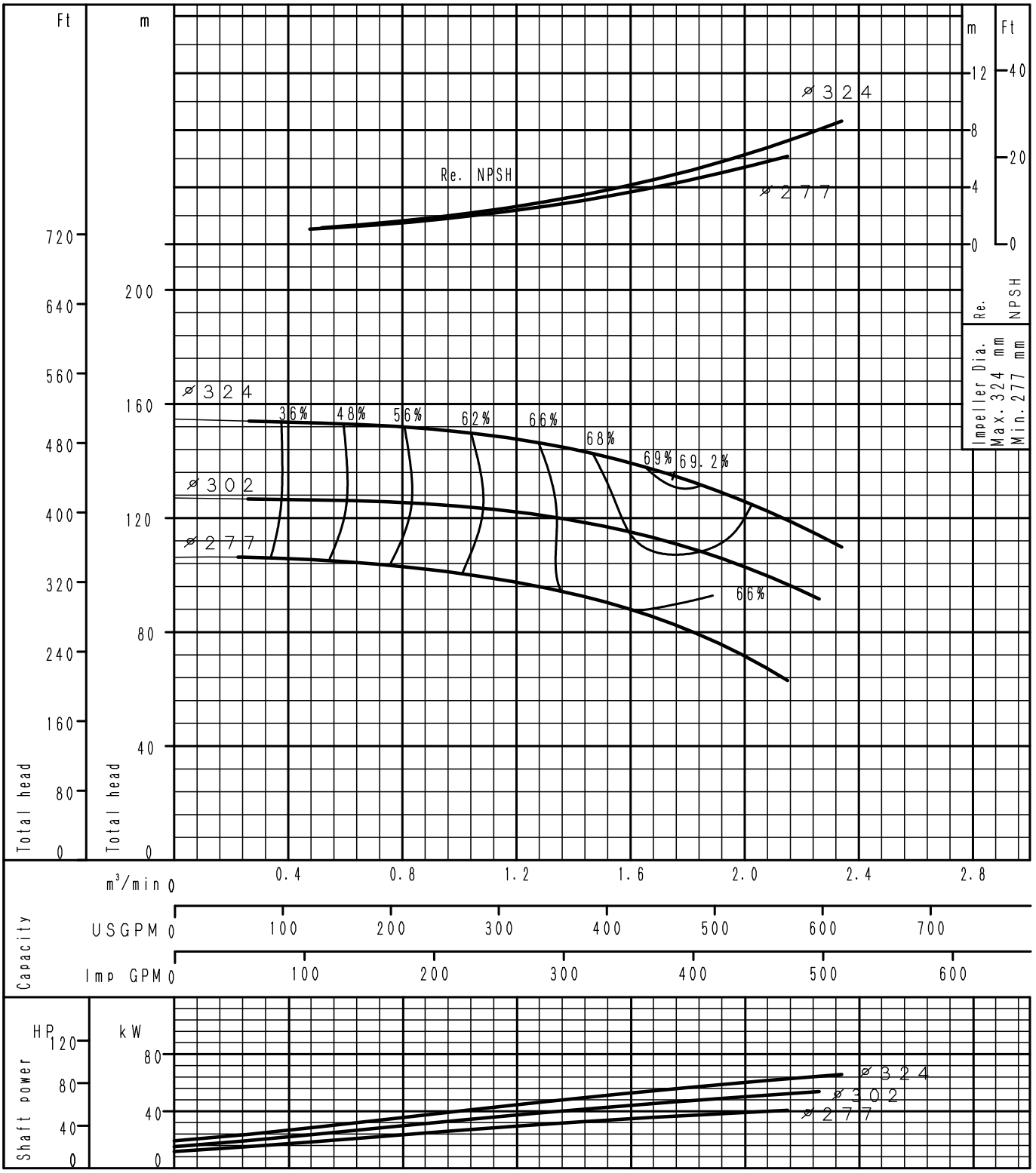
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS50-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632156-00

EBARA

EBARA CORPORATION

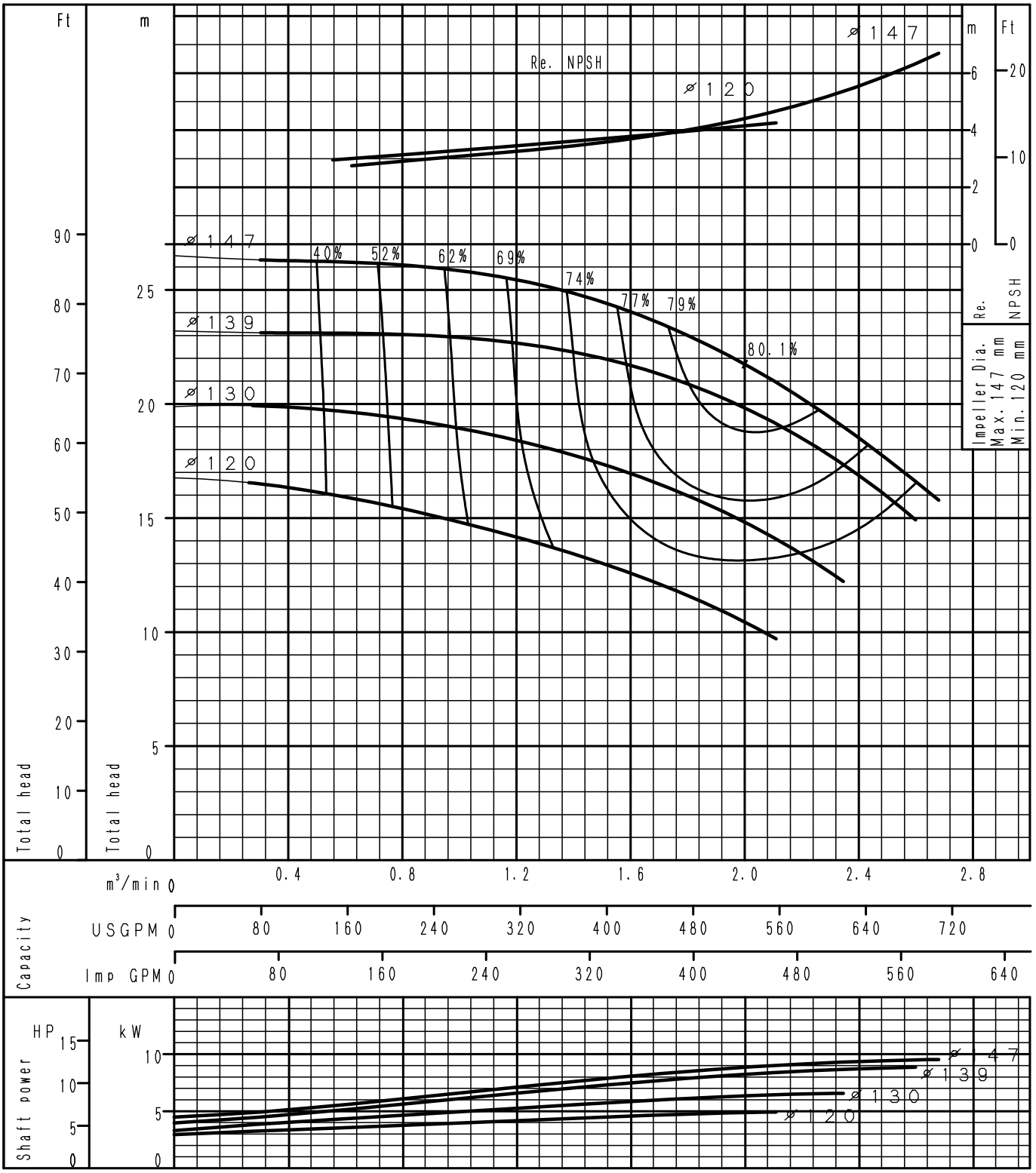
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS65-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632157-00

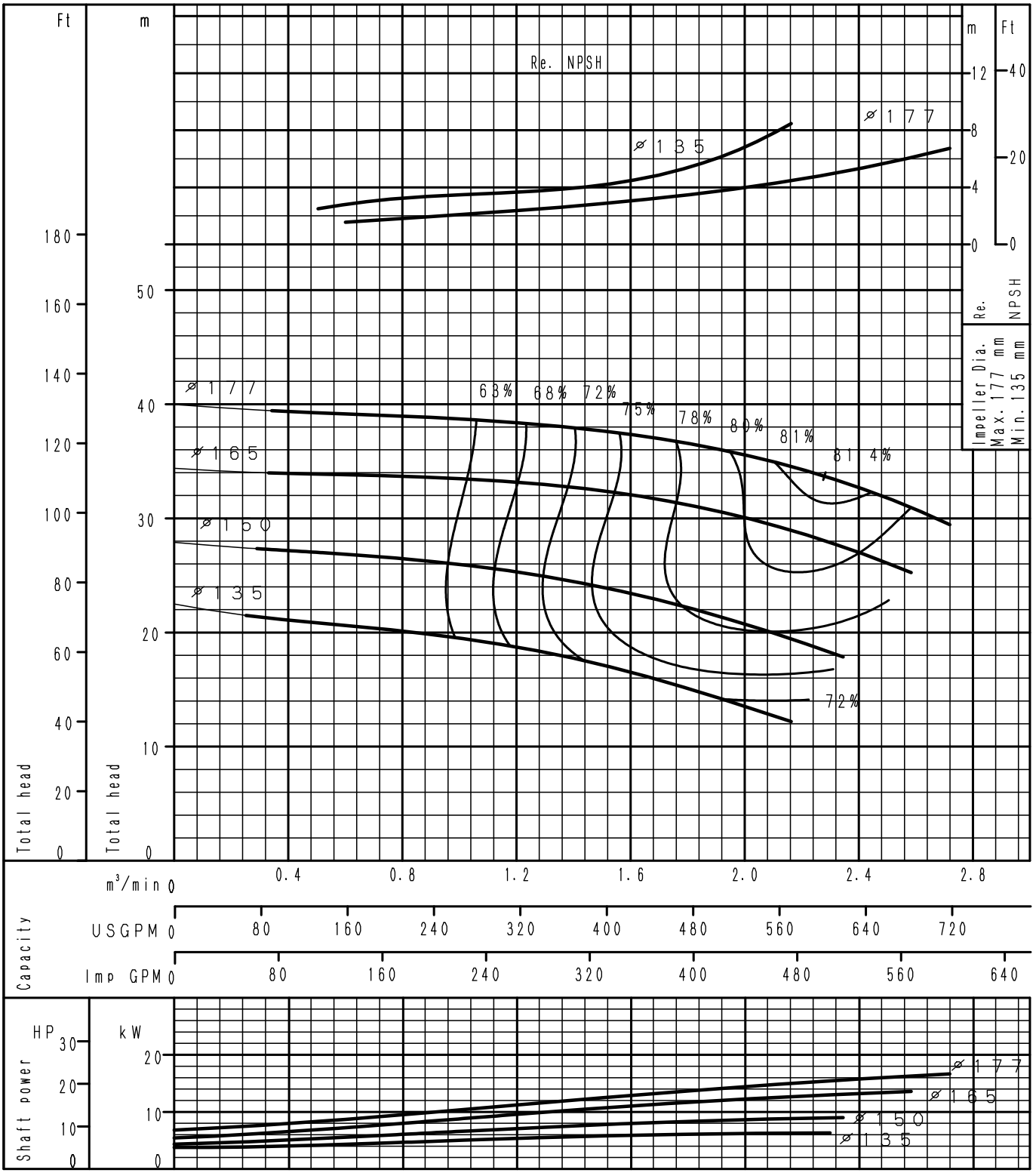
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS65-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632158-00

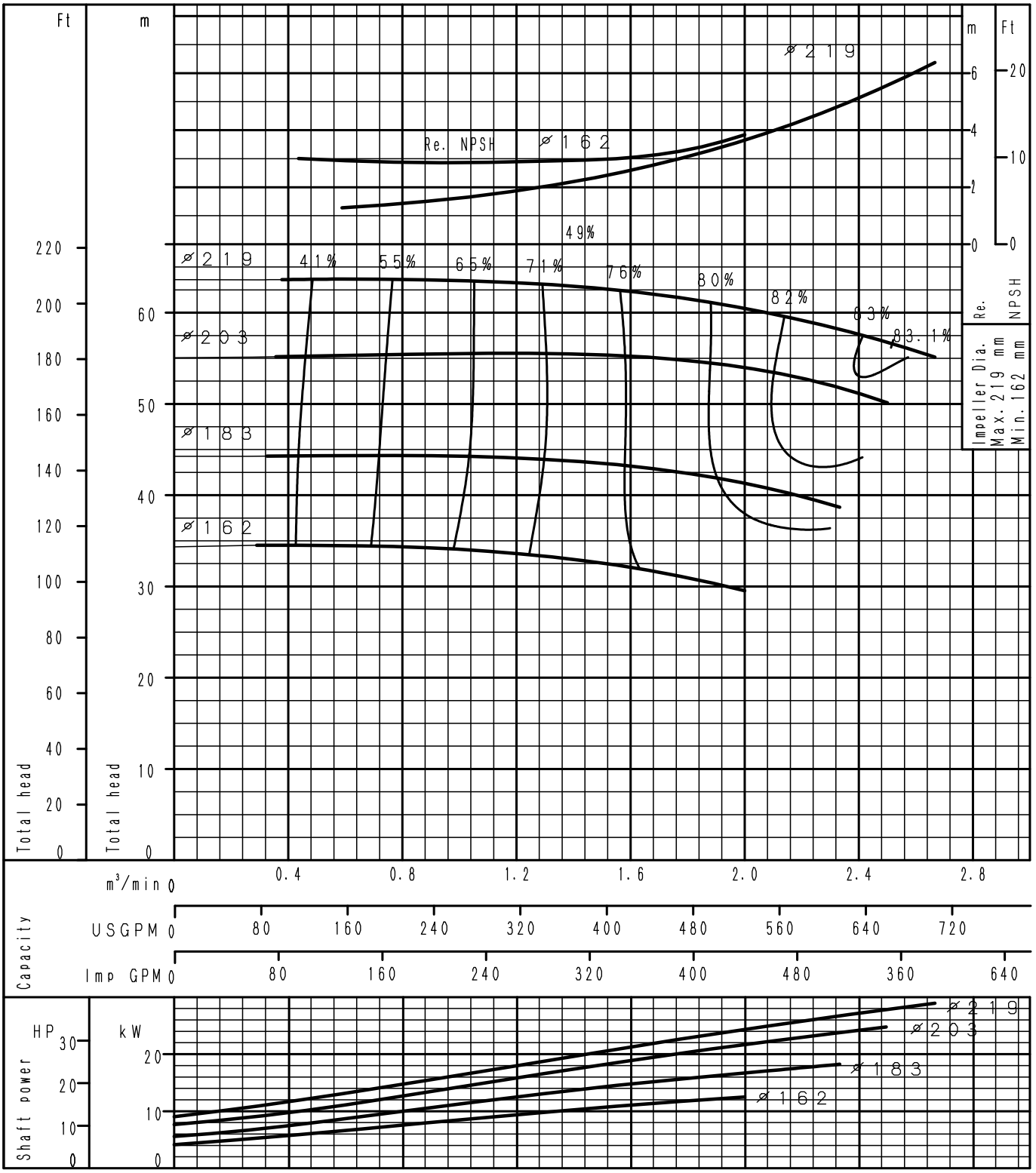
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS65-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632159-00

EBARA

EBARA CORPORATION

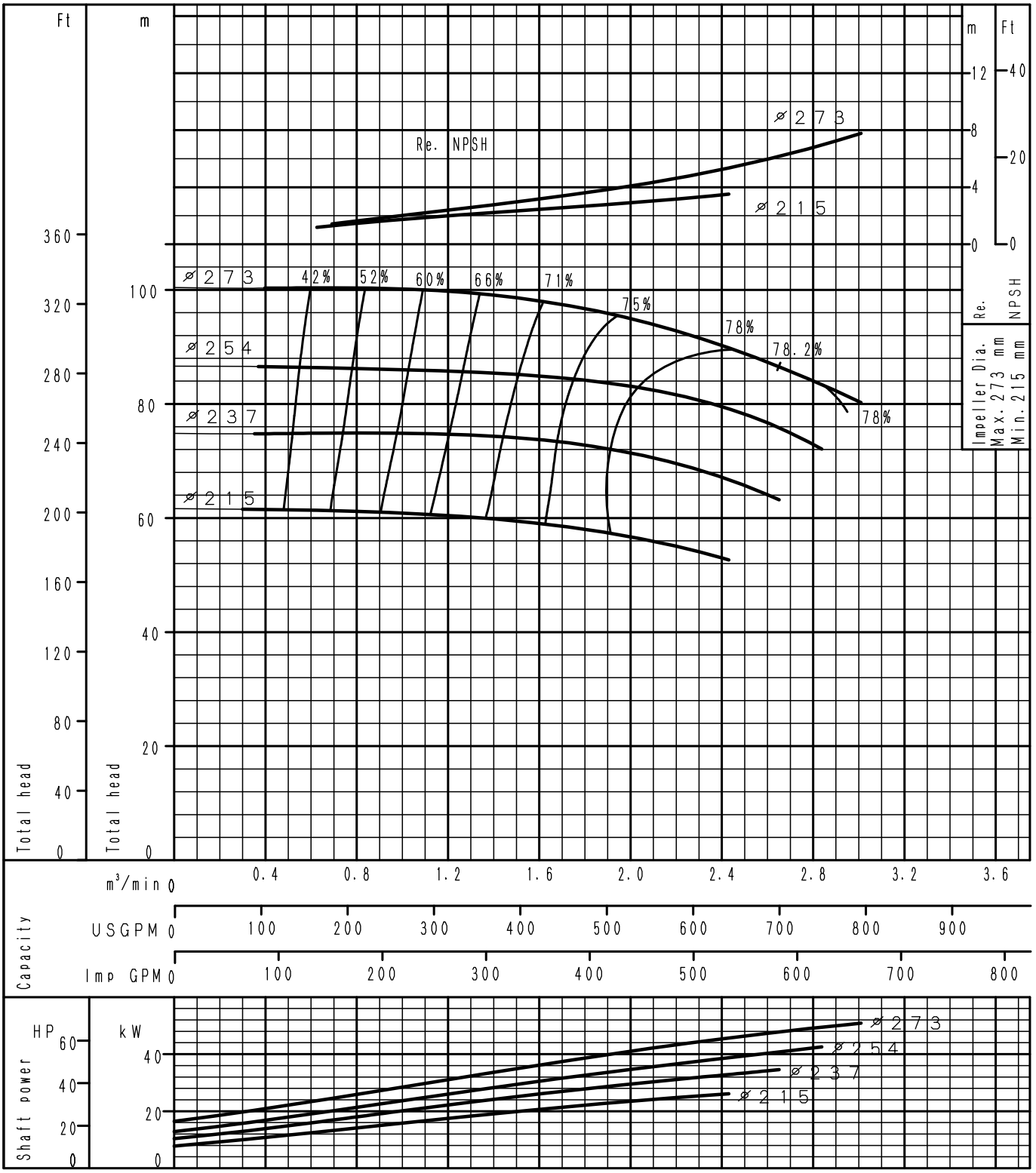
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS65-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632160-00

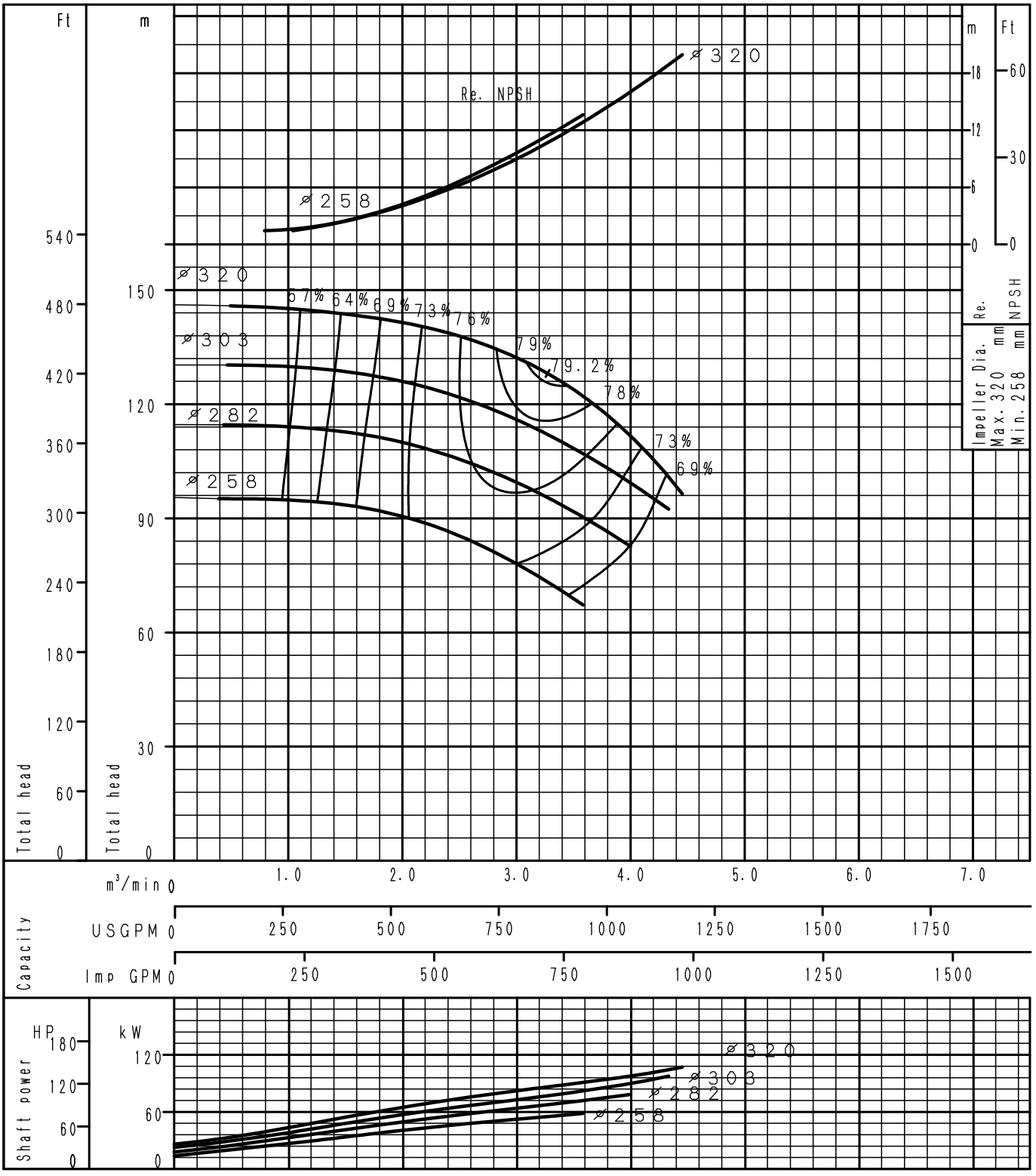
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS65-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632161-00

EBARA

EBARA CORPORATION

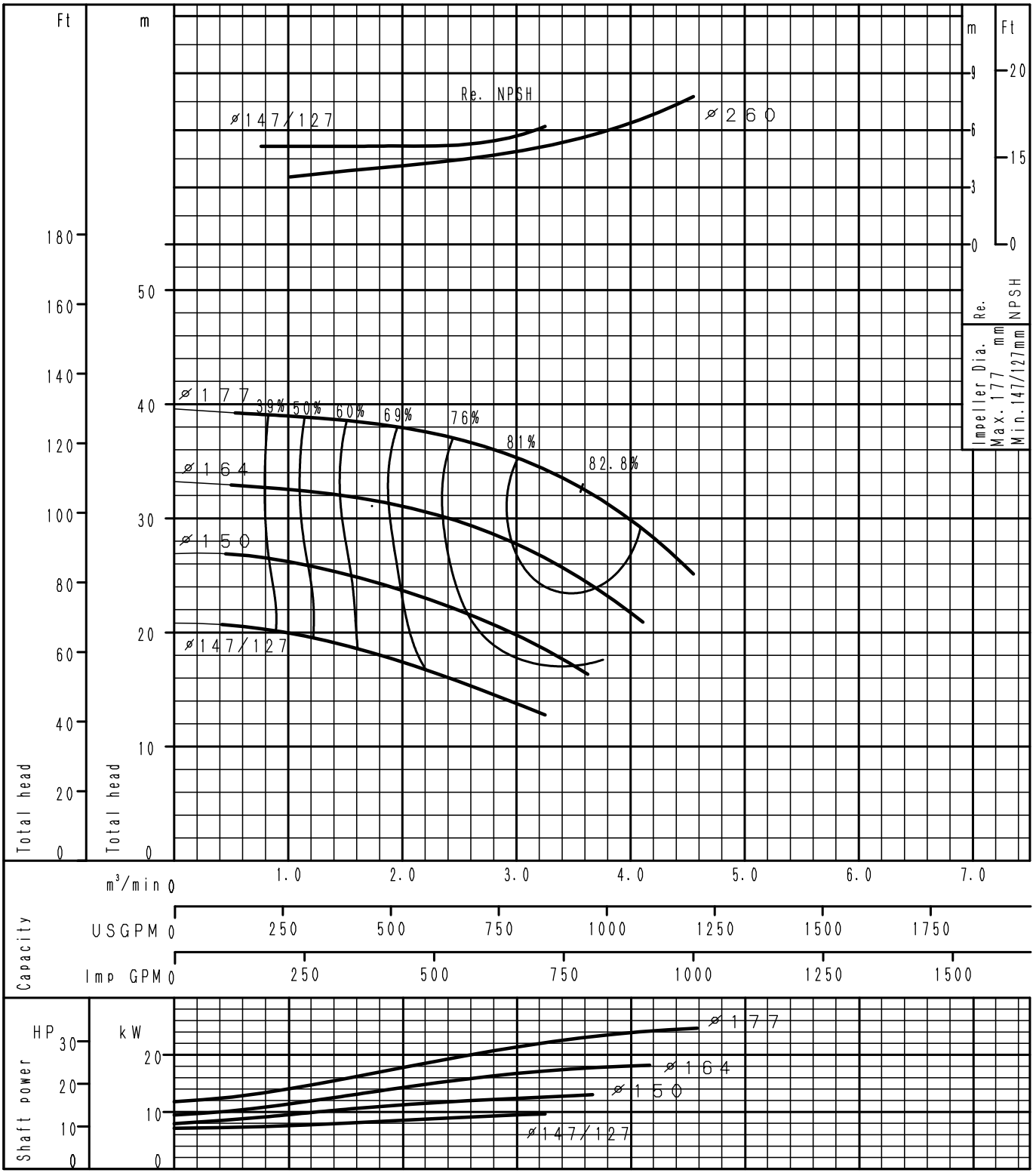
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS80-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632162-00

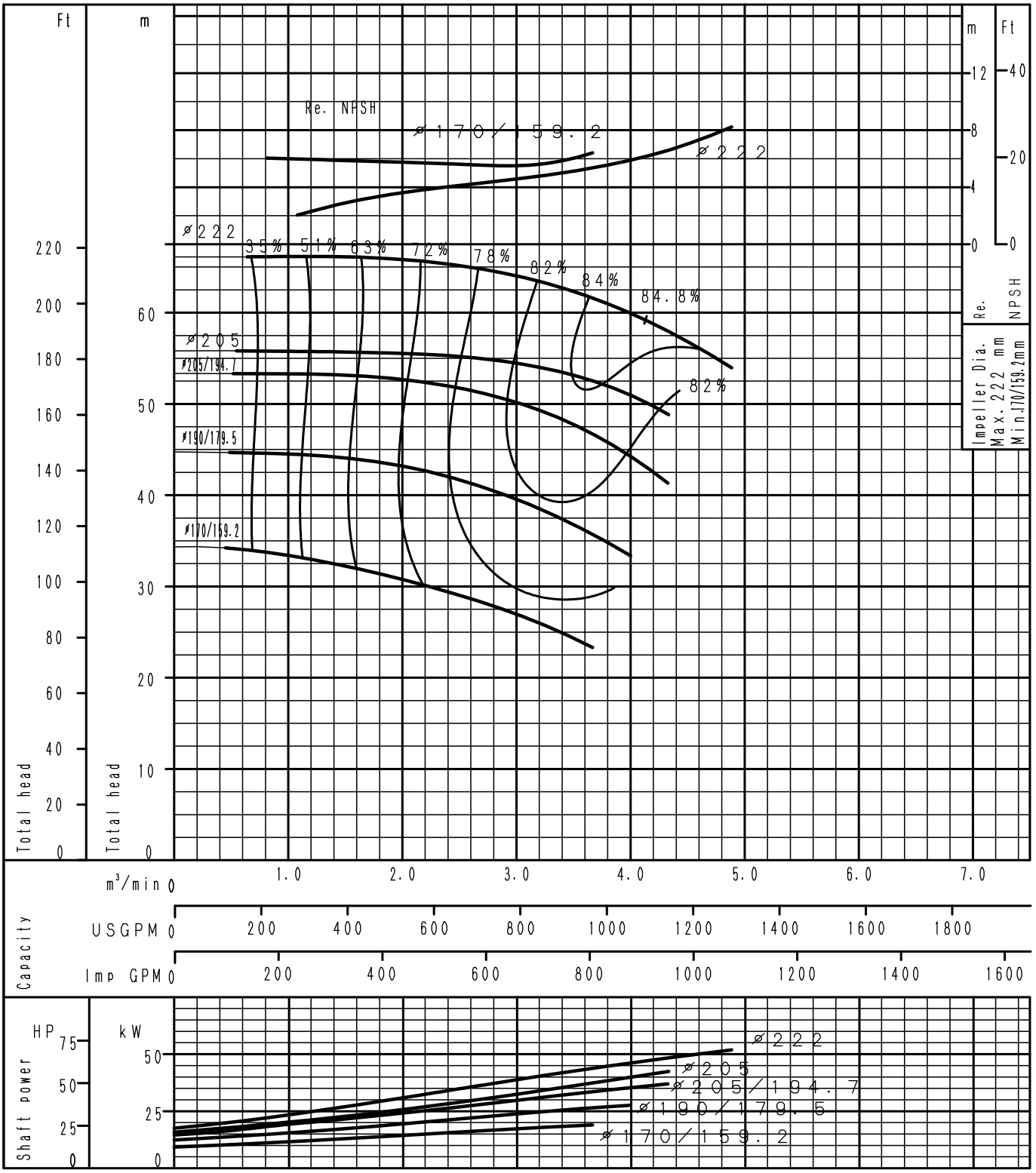
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS80-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632163-00

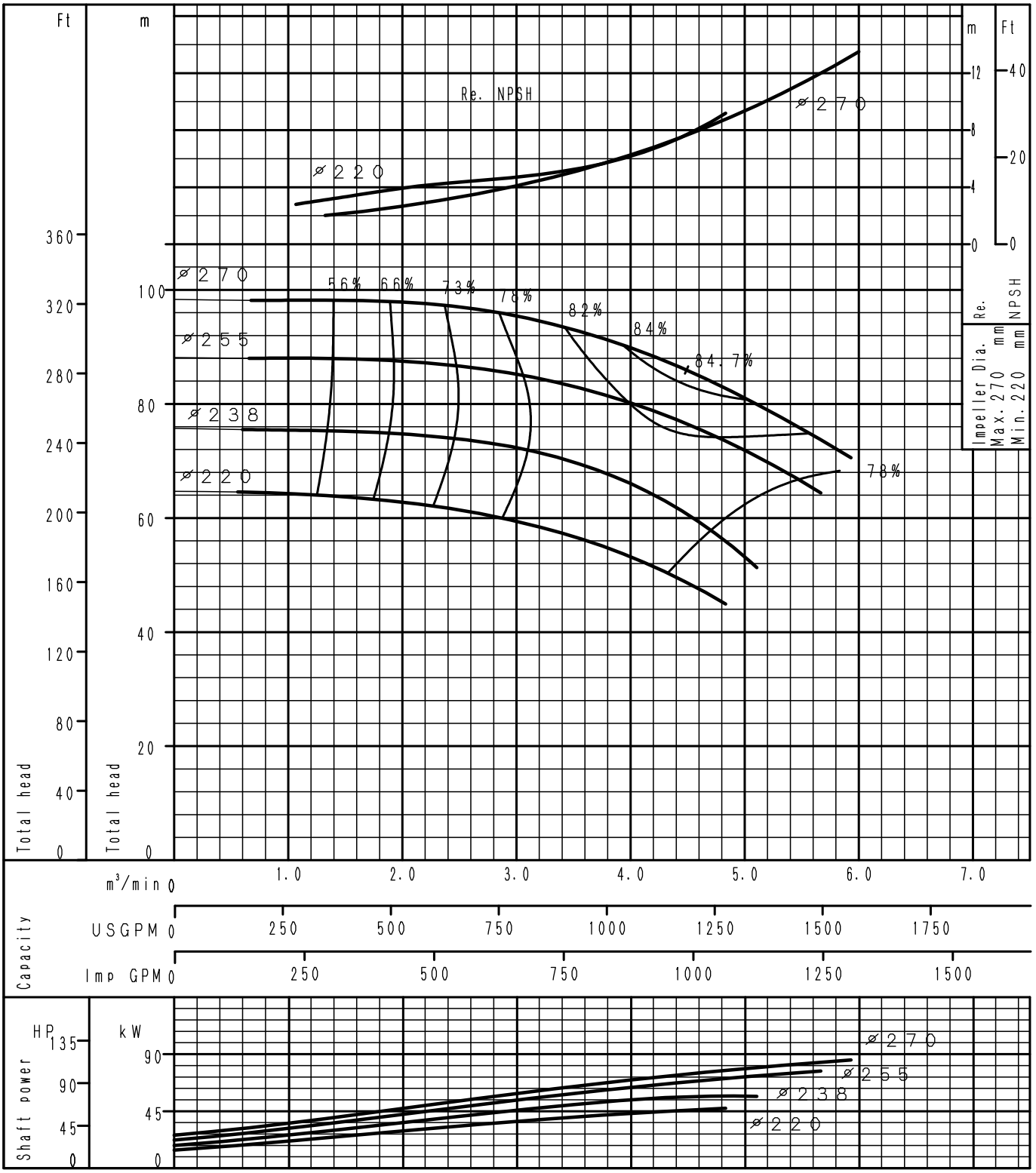
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS80-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632164-00

EBARA

EBARA CORPORATION

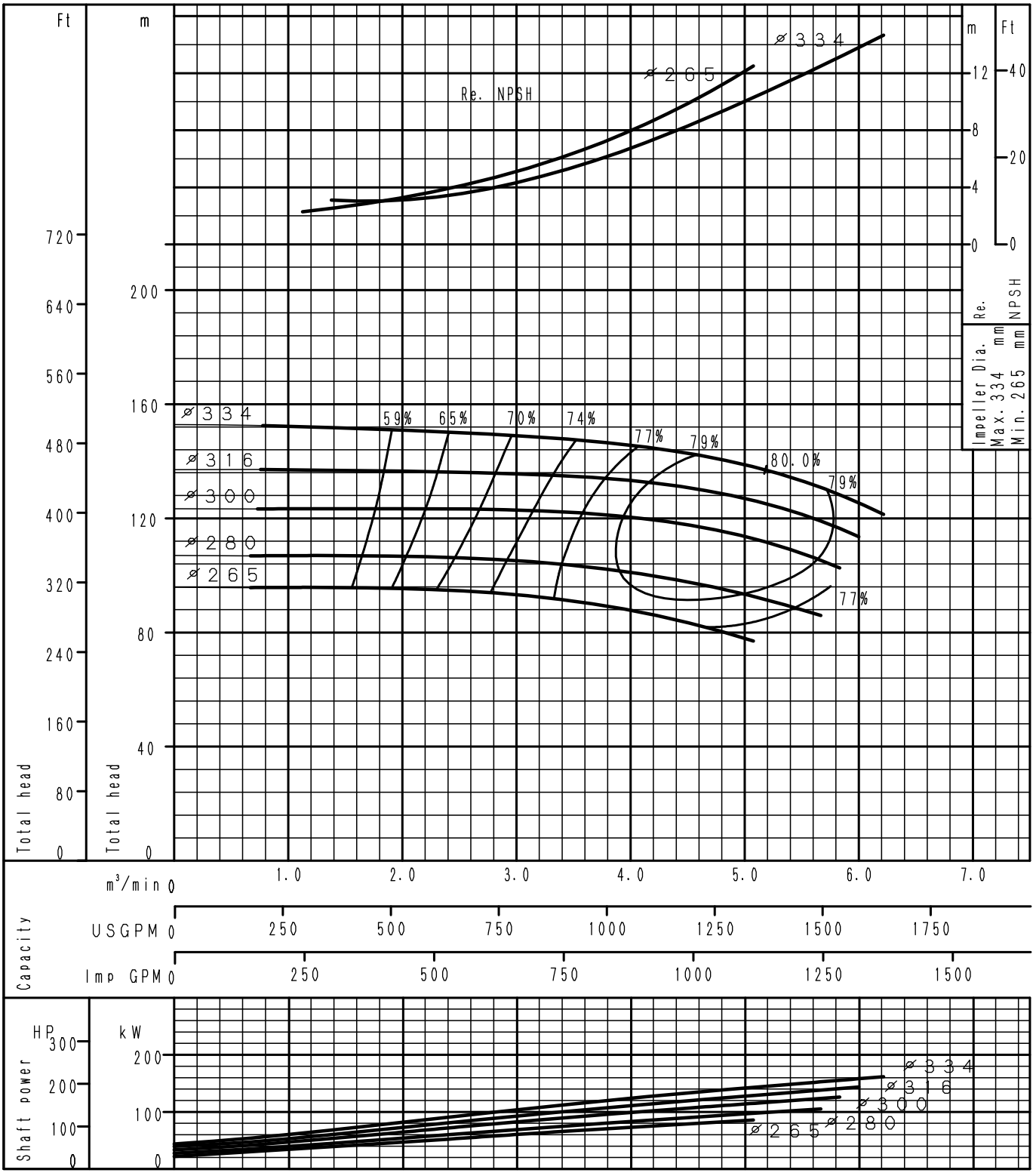
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS80-315L	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632165-00

EBARA

EBARA CORPORATION

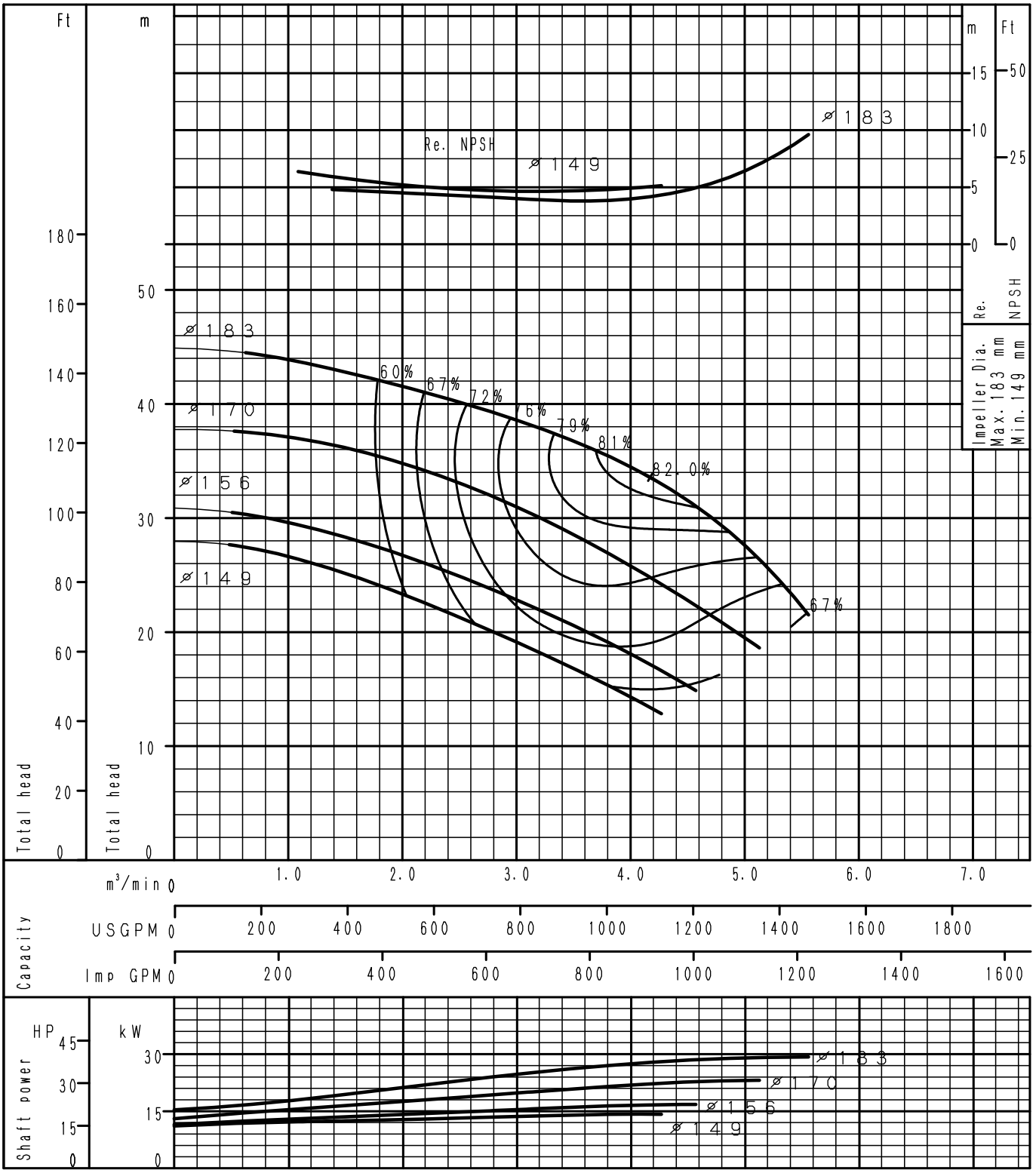
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS100-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632166-00

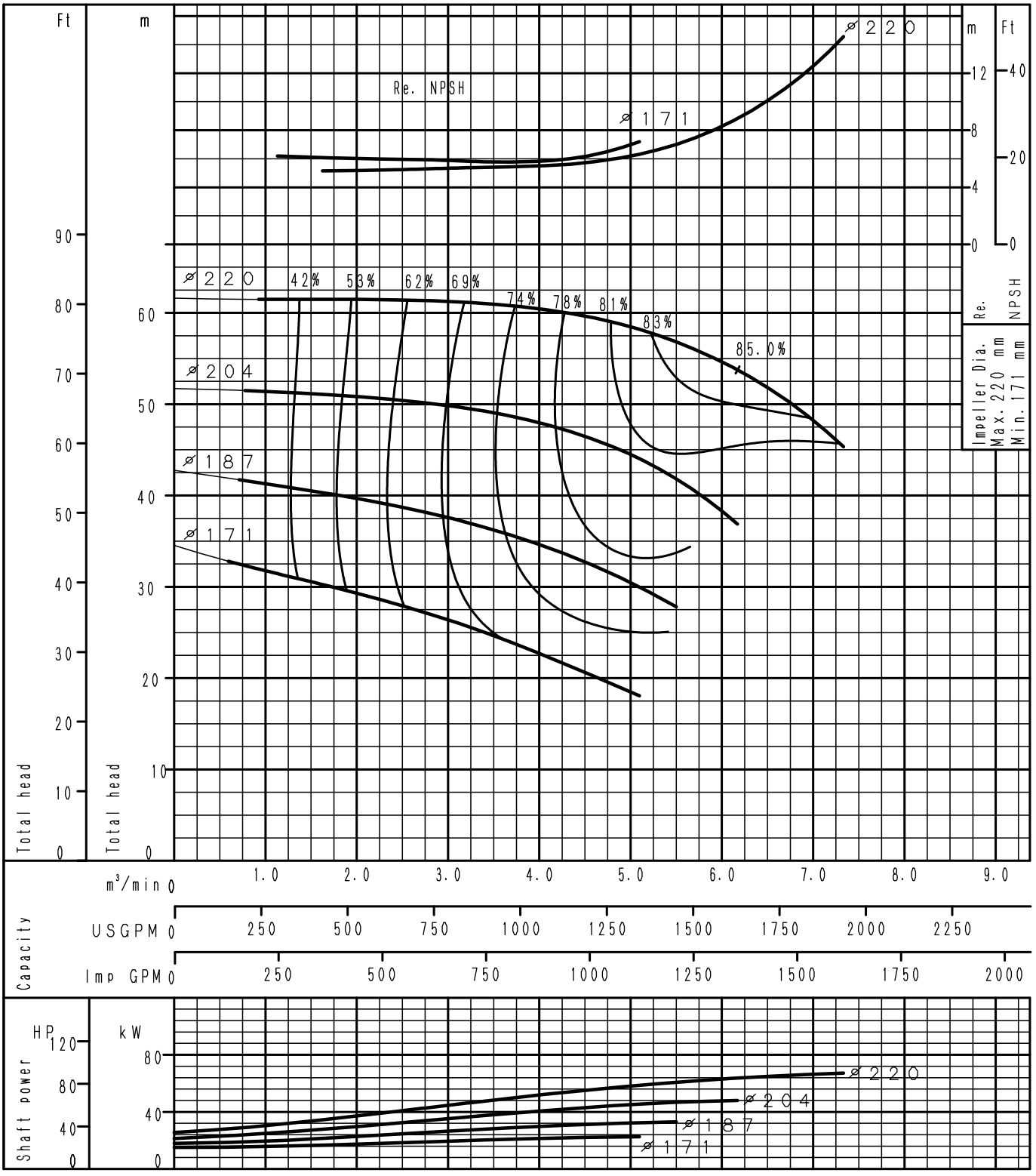
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS100-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632167-00

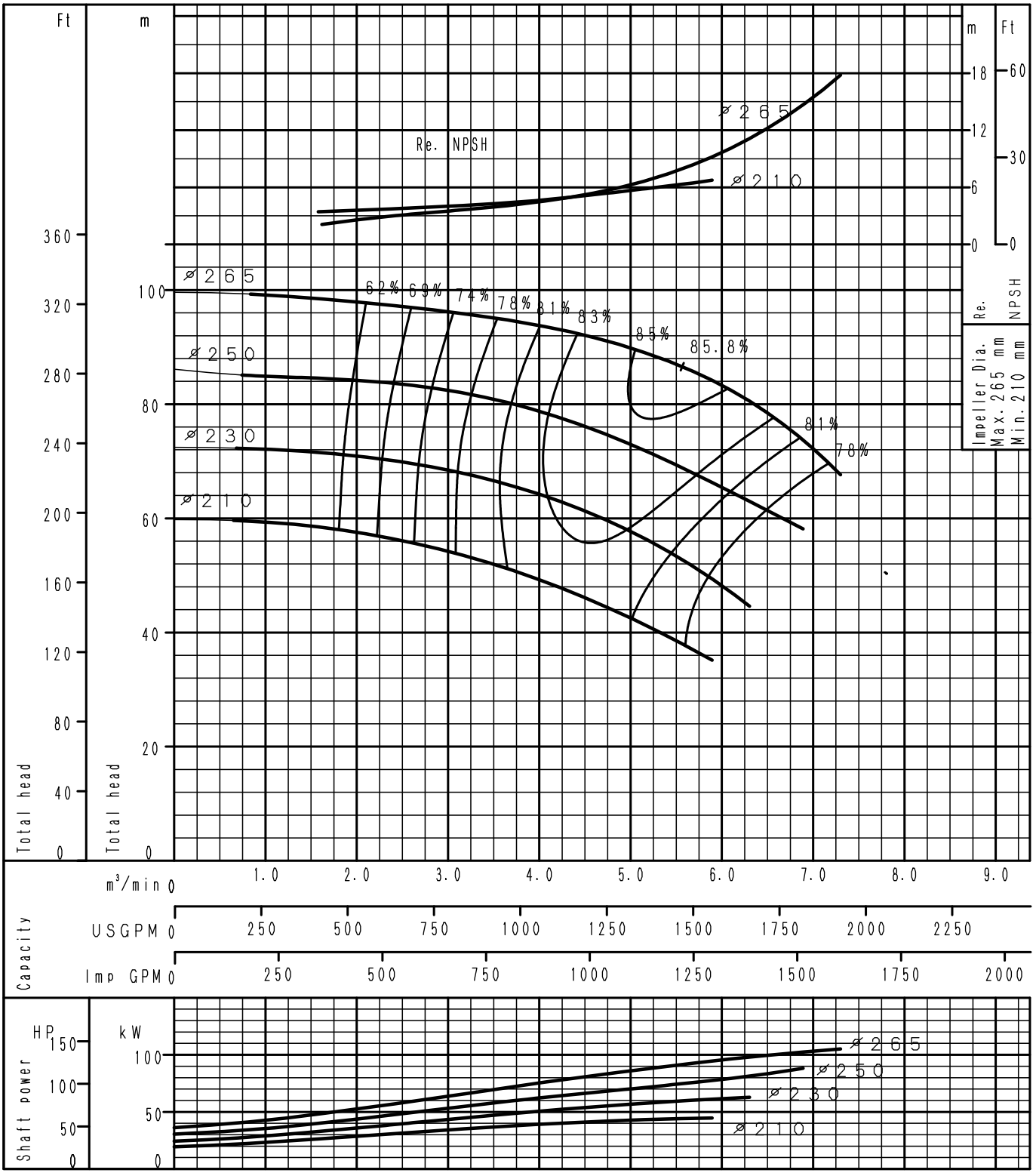
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS100-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632168-00

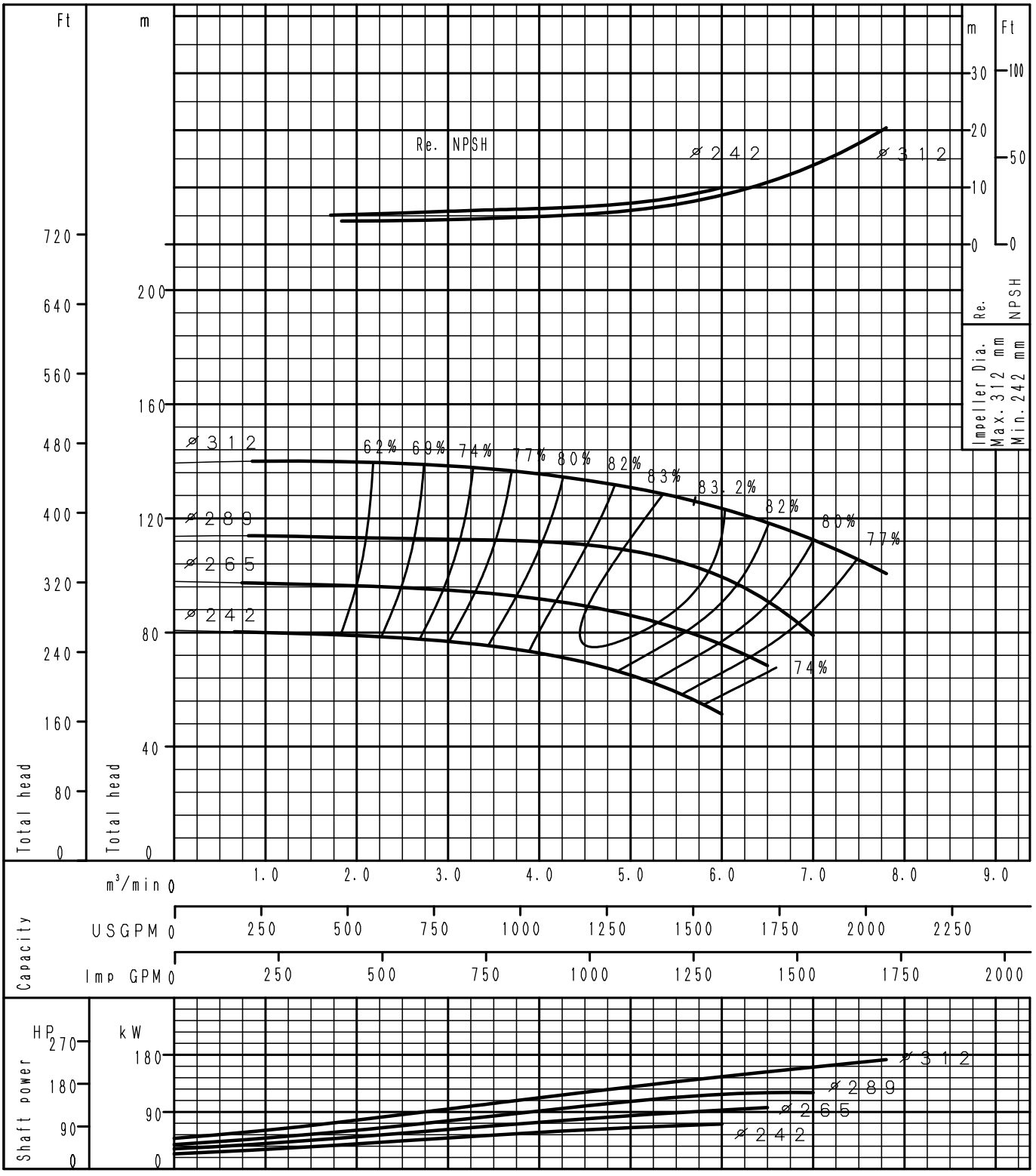
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS100-315L	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632169-00

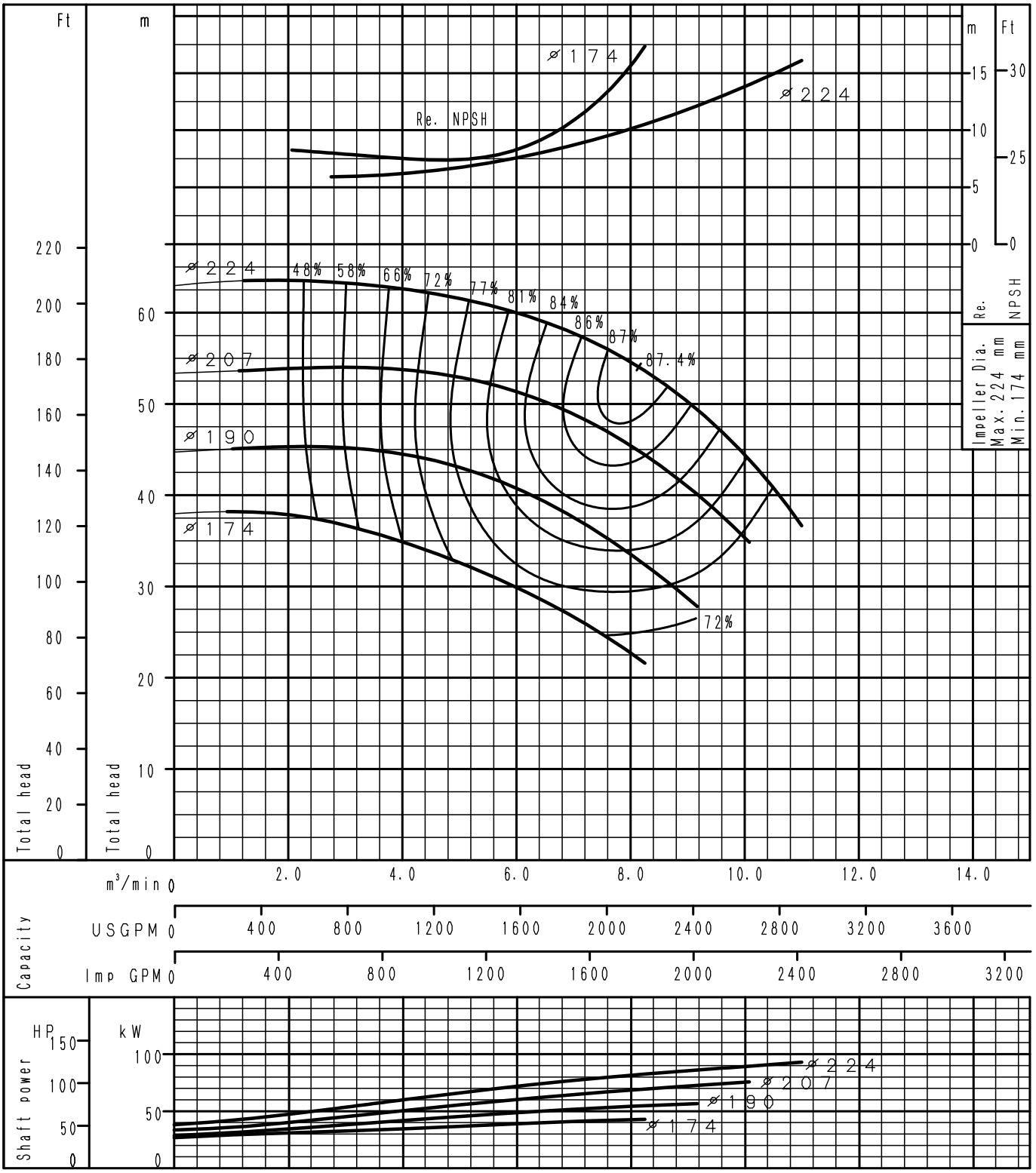
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS125-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632170-00

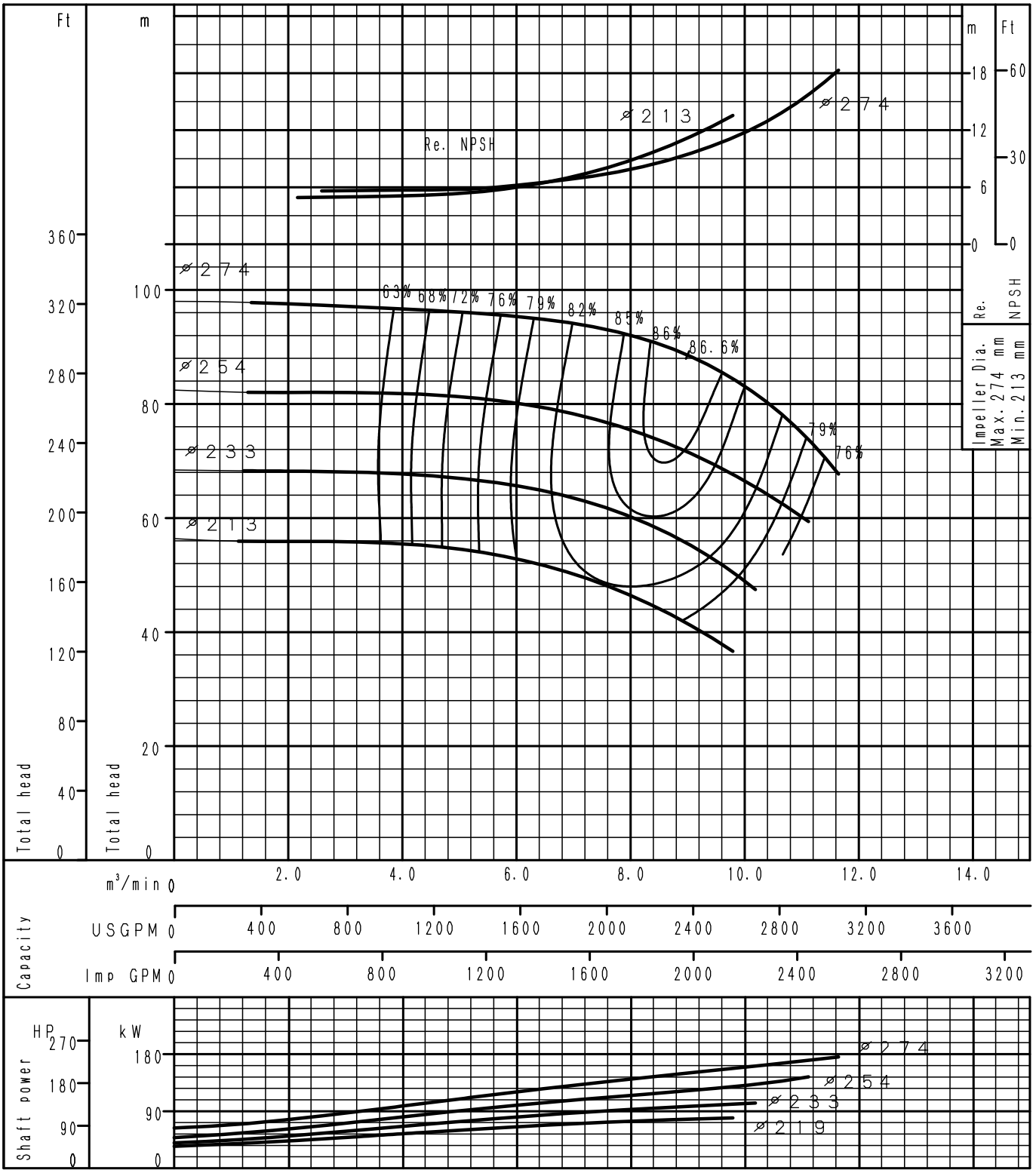
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS125-250L	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632171-00

EBARA

EBARA CORPORATION

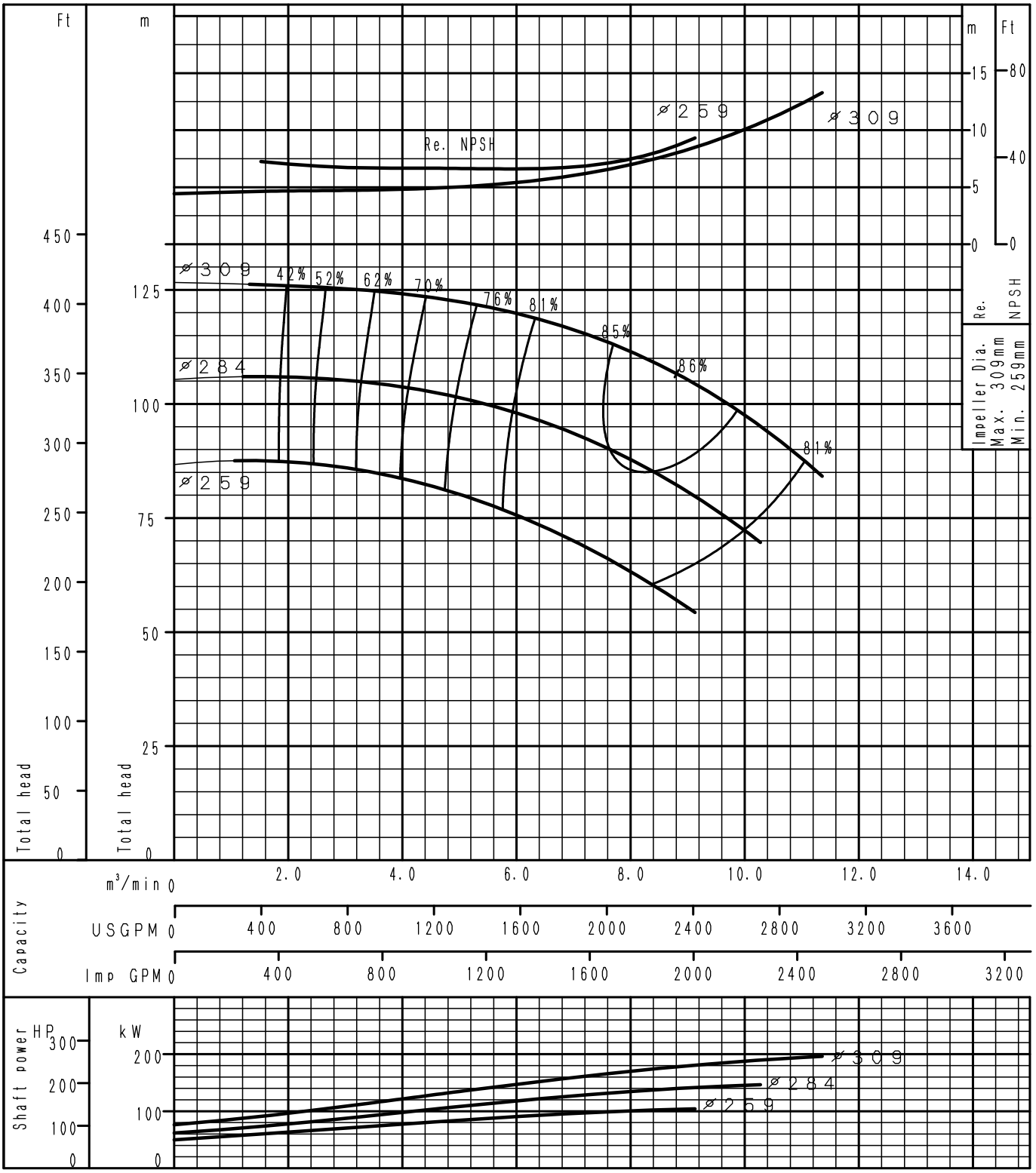
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS125-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632172-00

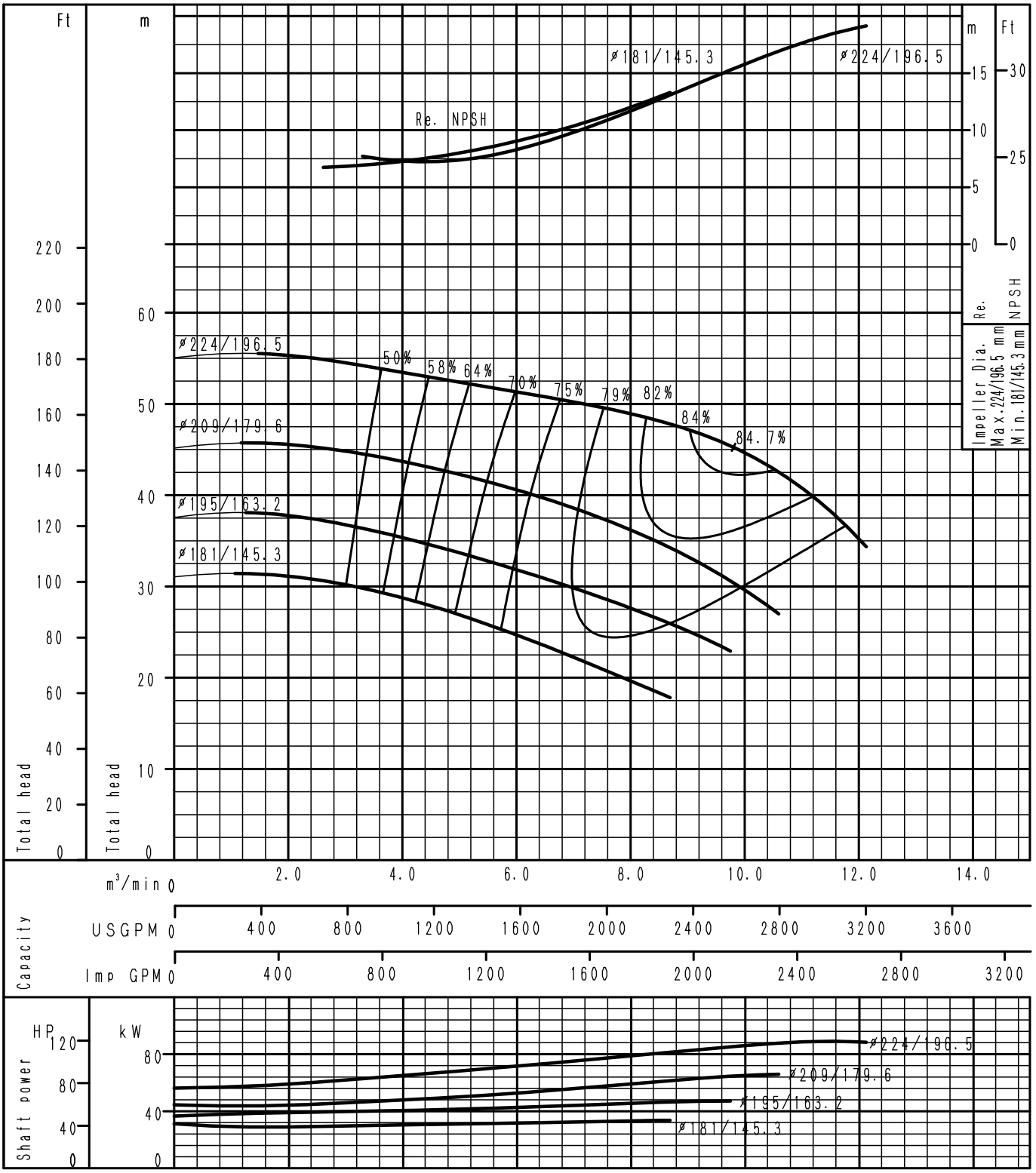
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS150-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632173-00

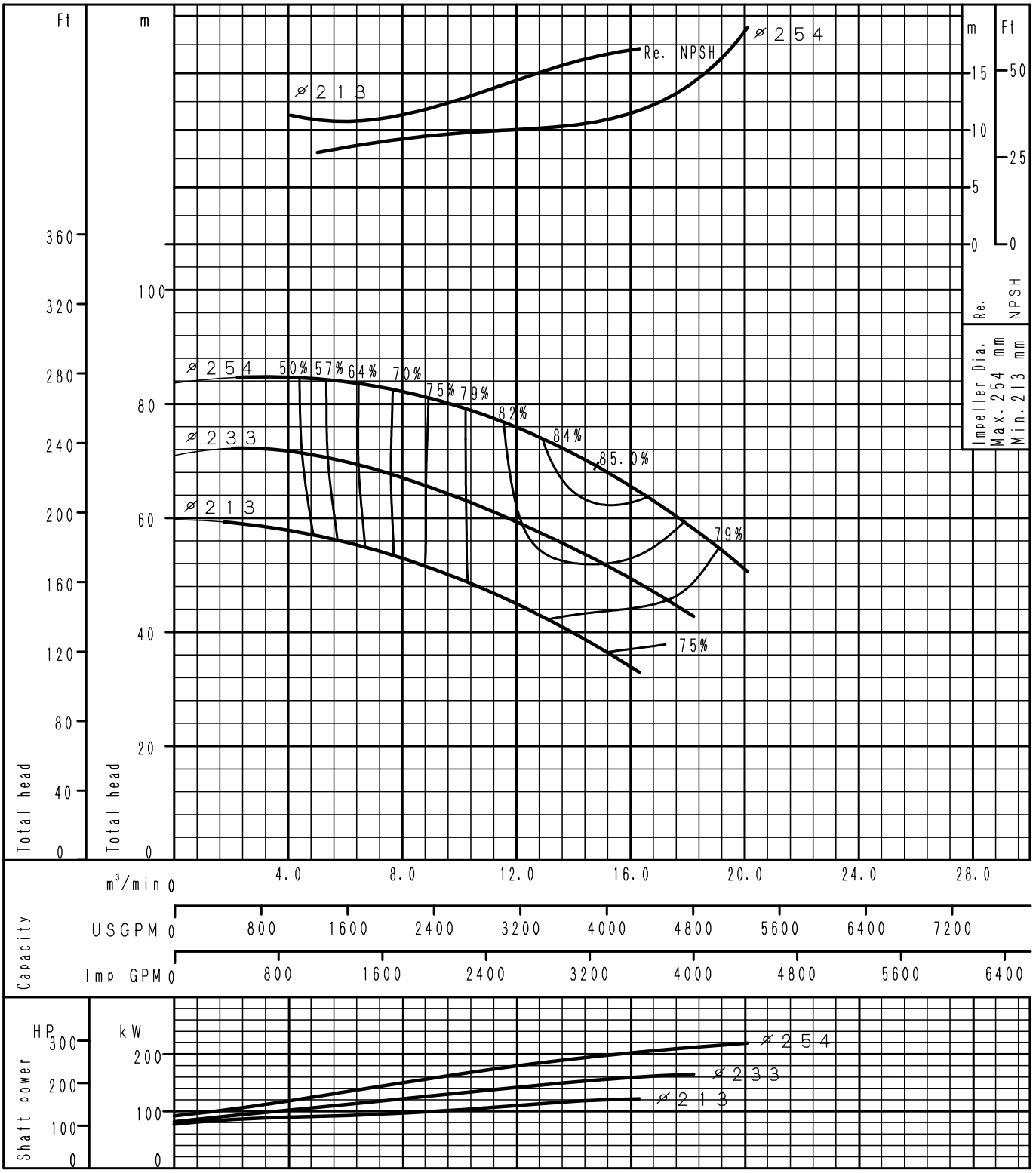
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

2 Poles

GS150-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 2900 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632174-00

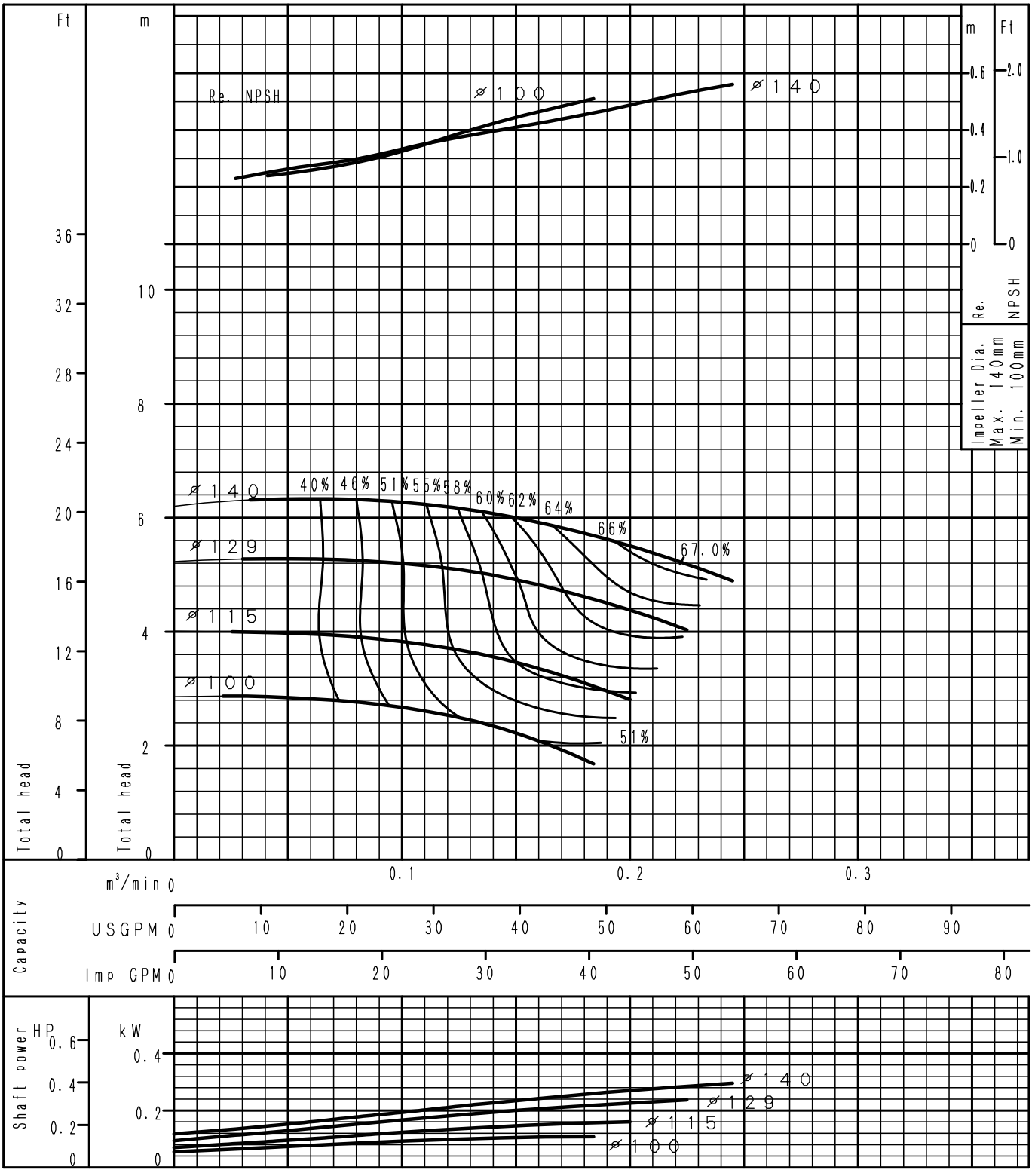
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-125.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632175-00

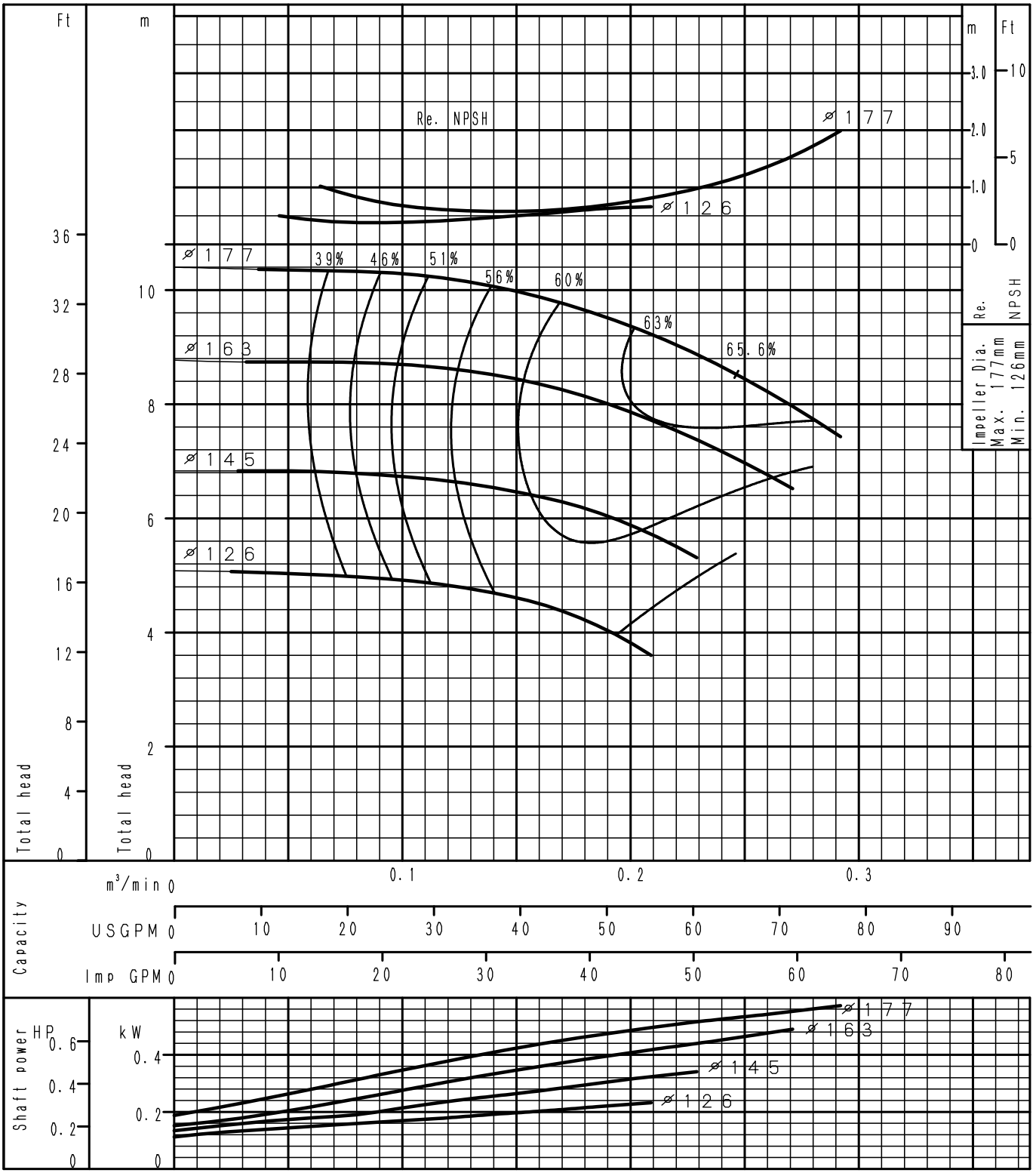
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-160.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632176-00

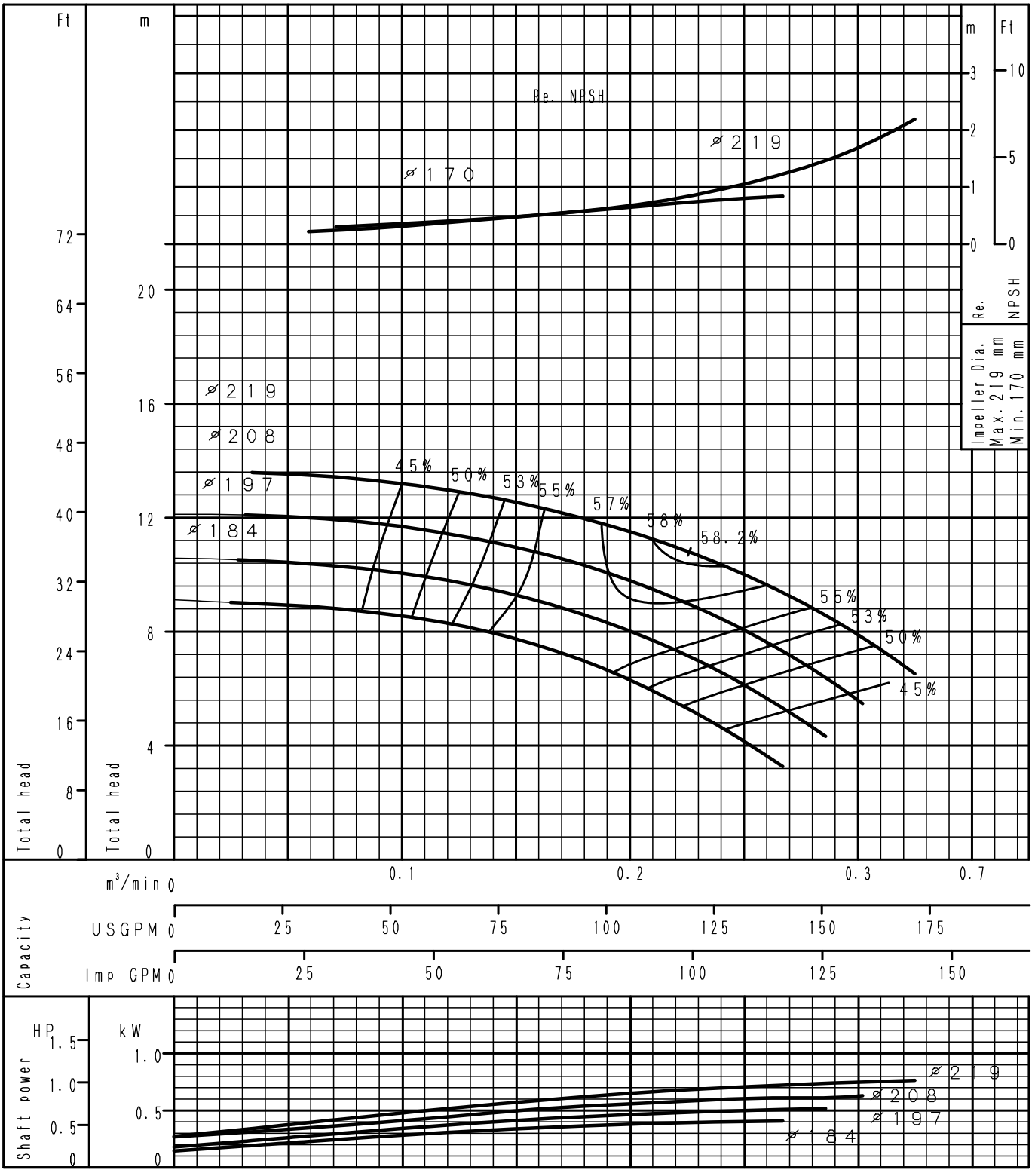
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-200.1	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632177-00

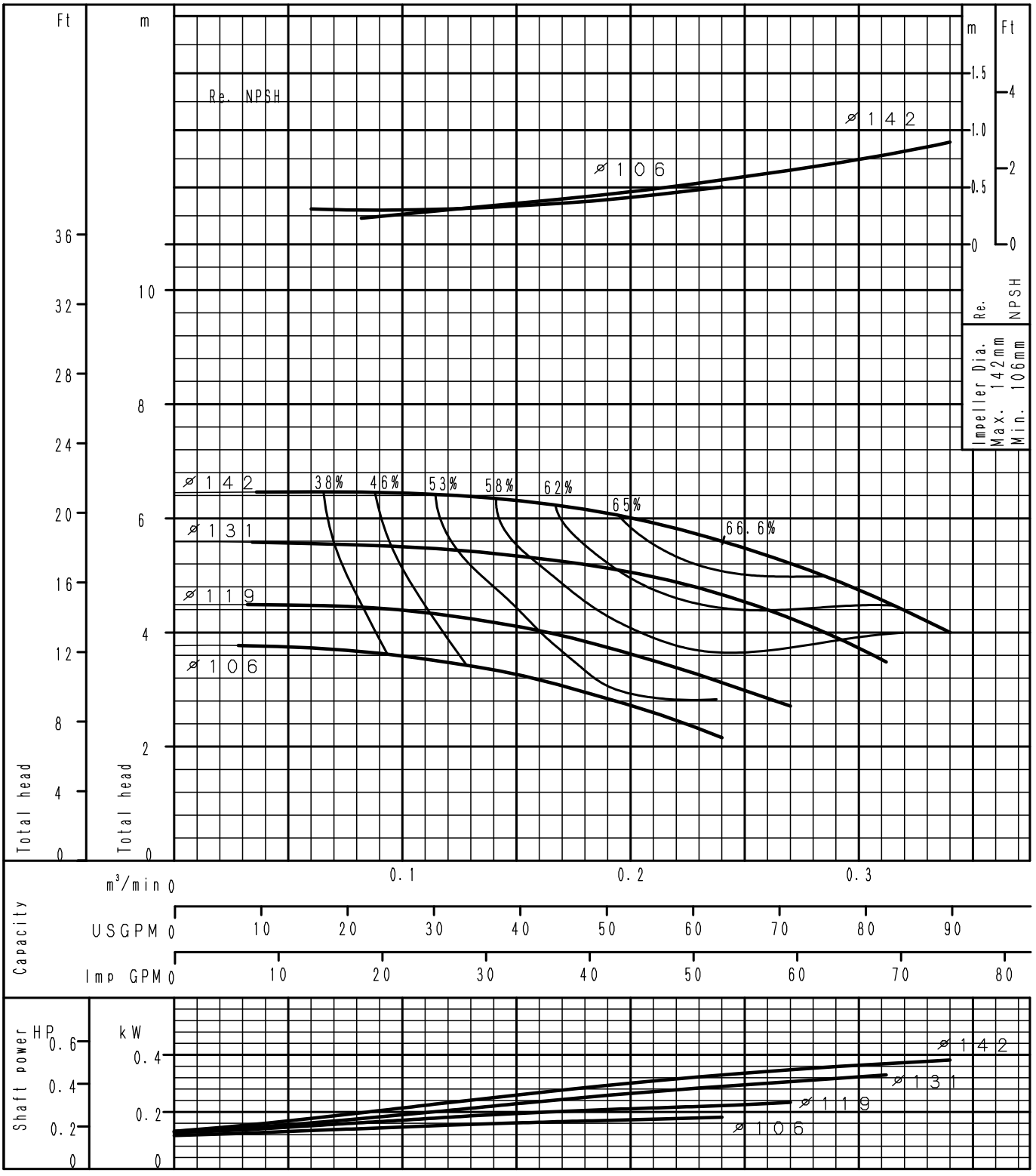
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632178-00

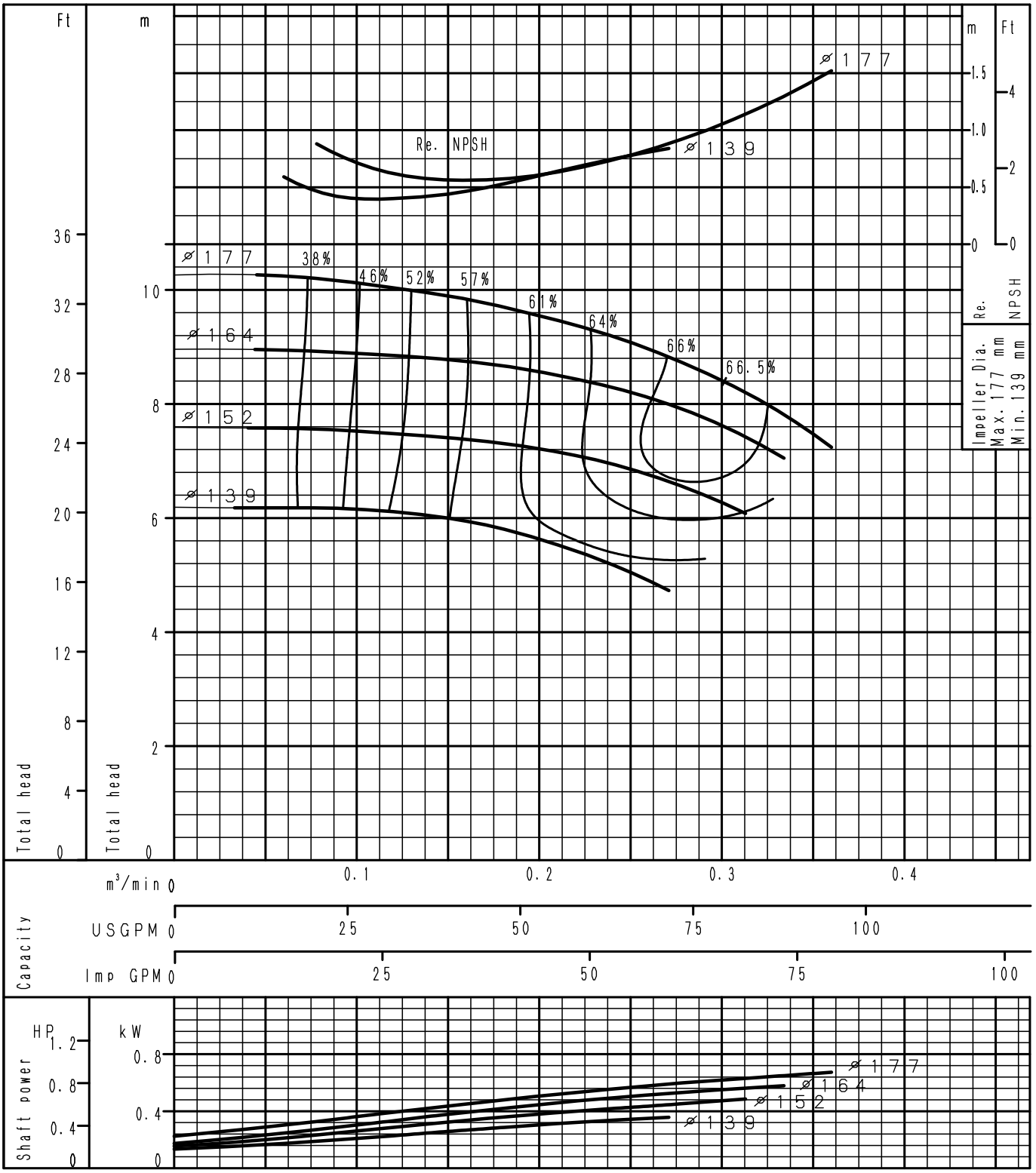
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632179-00

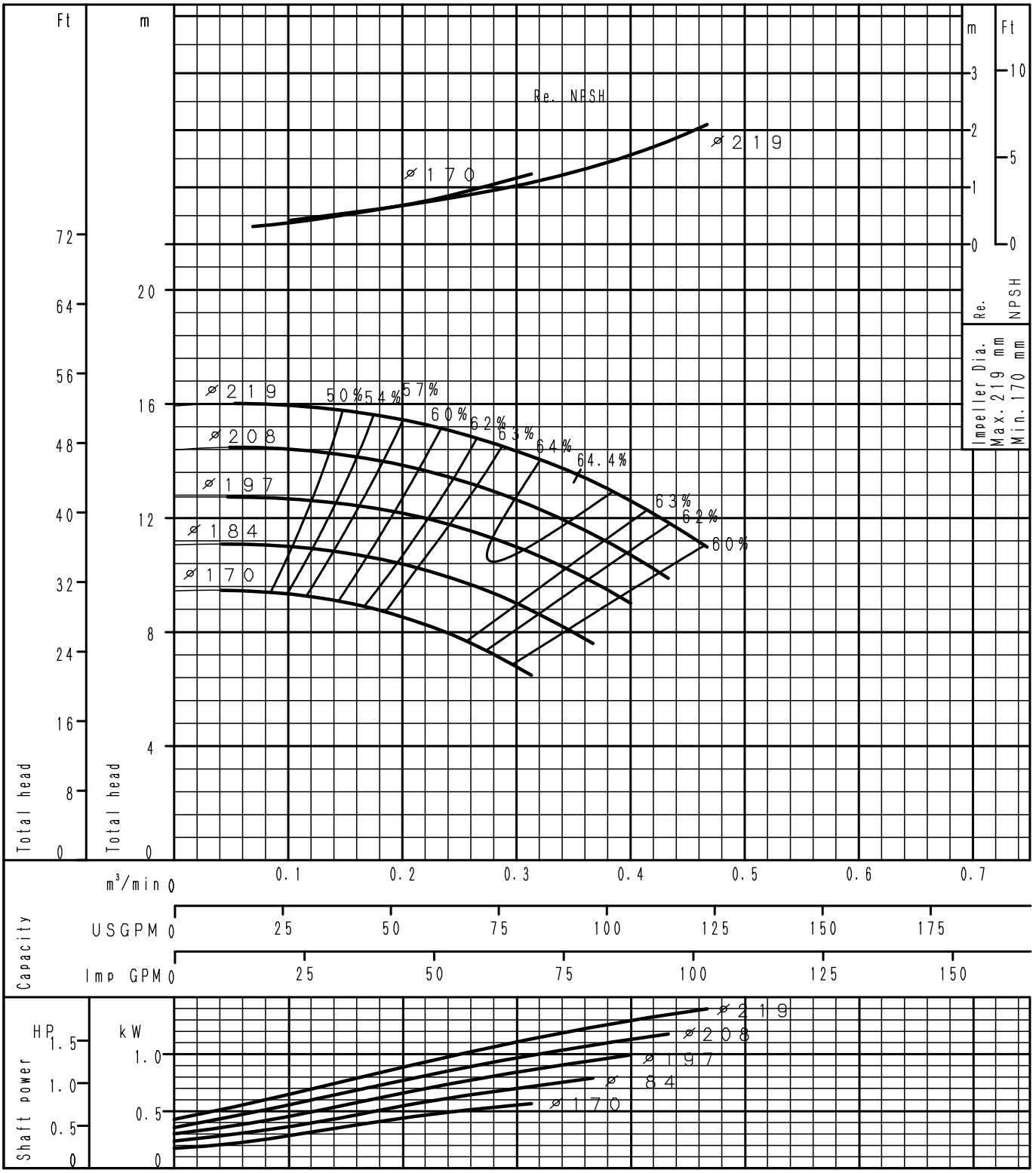
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632180-00

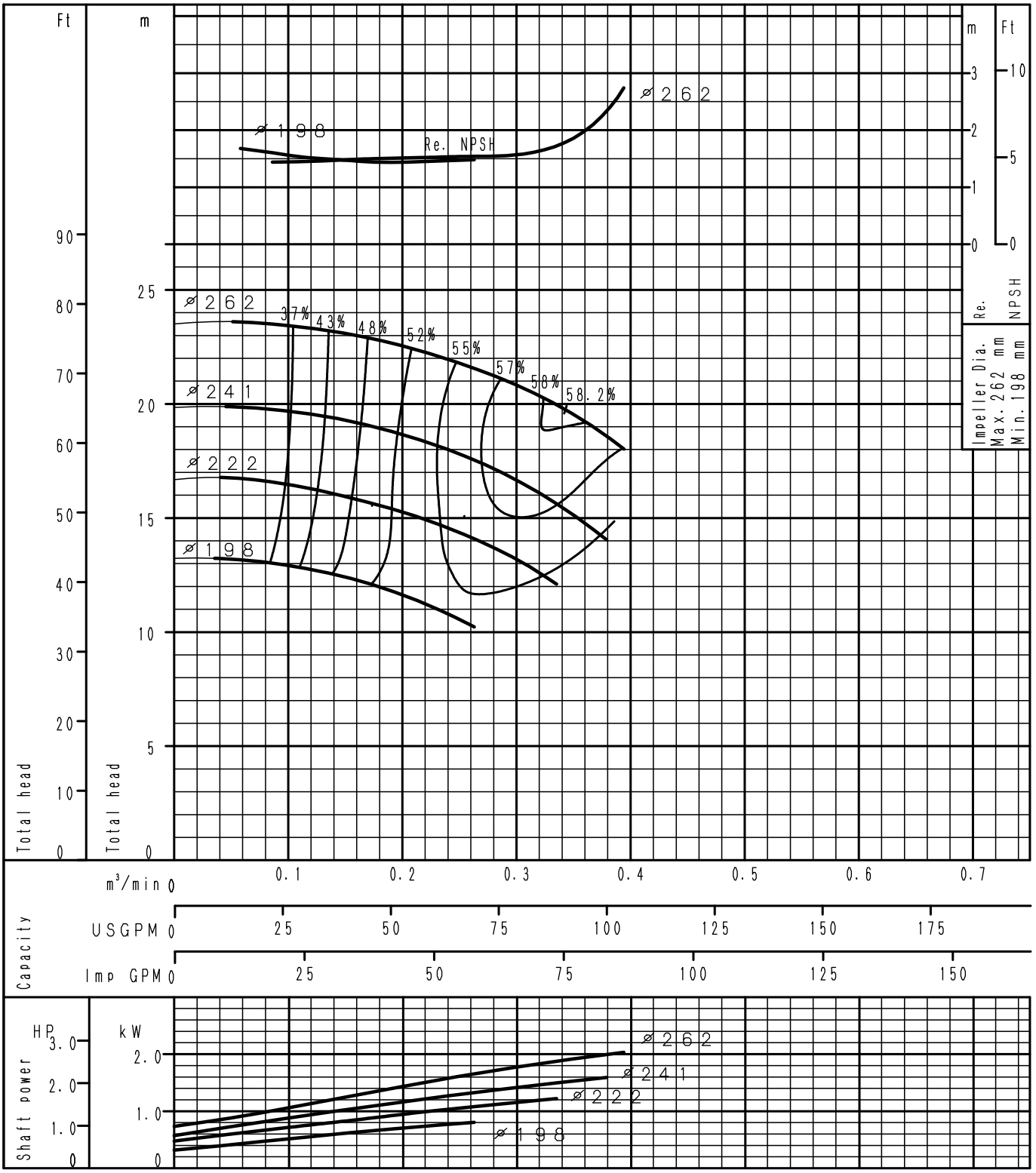
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS32-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632181-00

EBARA

EBARA CORPORATION

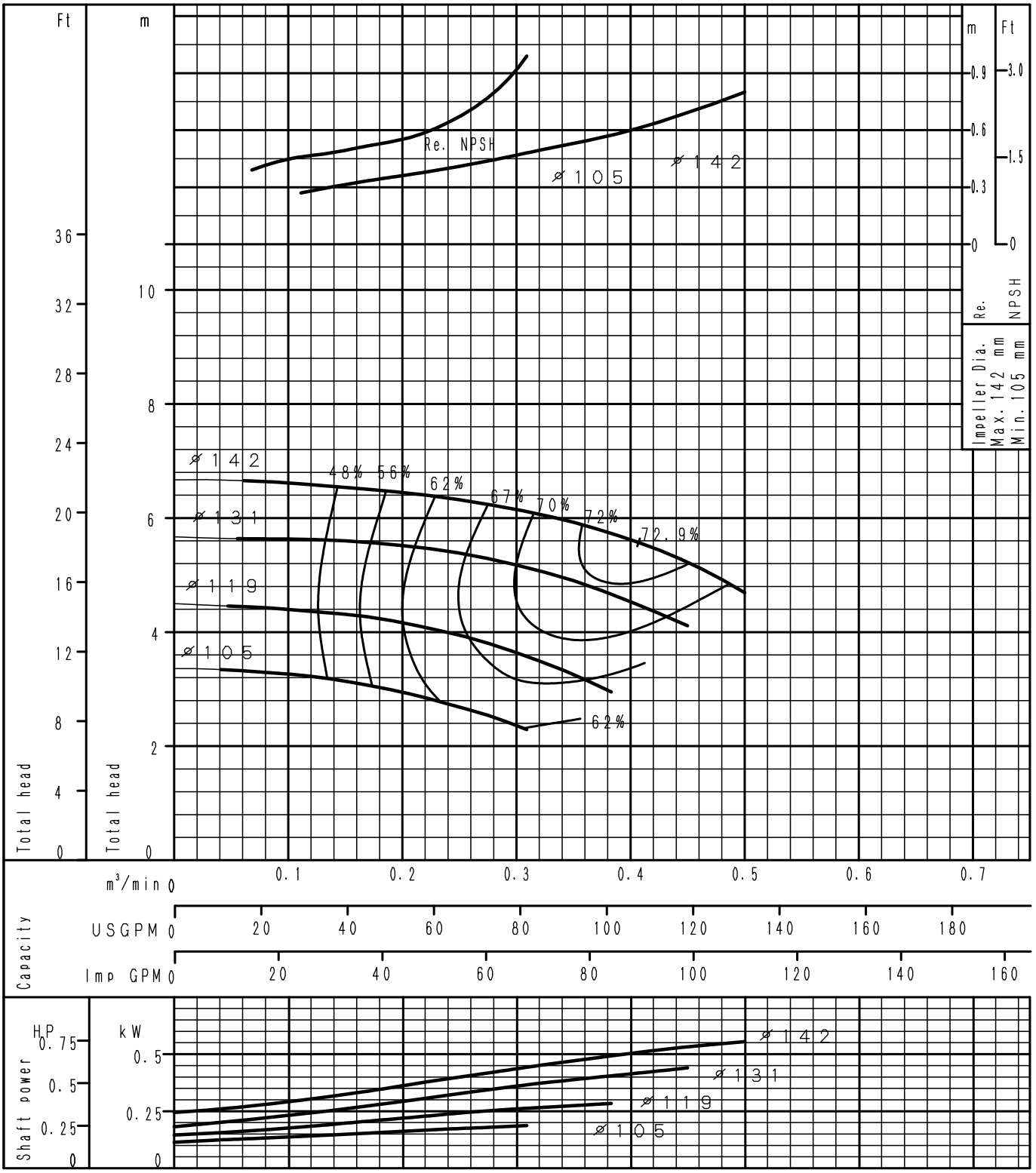
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS40-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632182-00

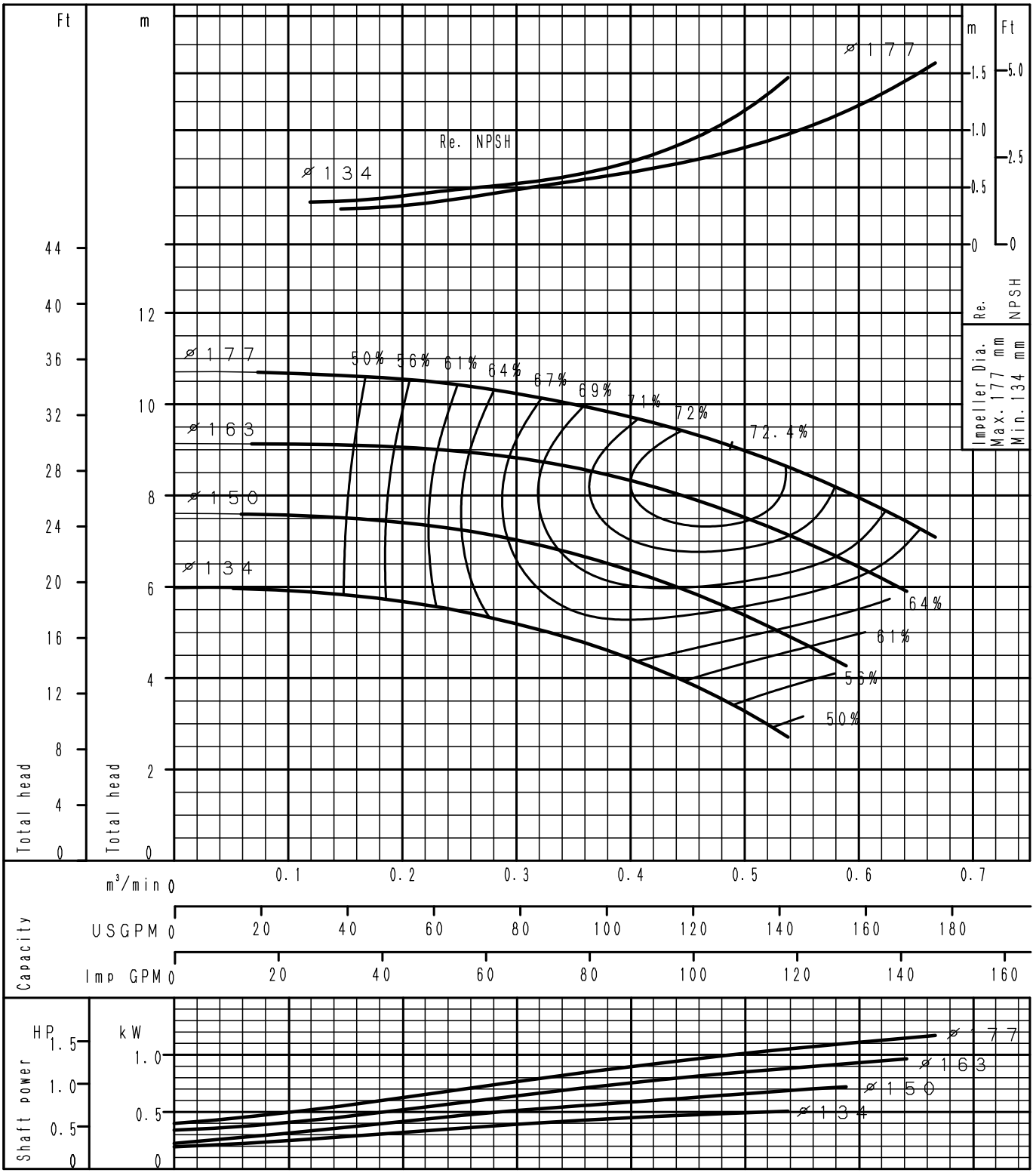
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS40-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632183-00

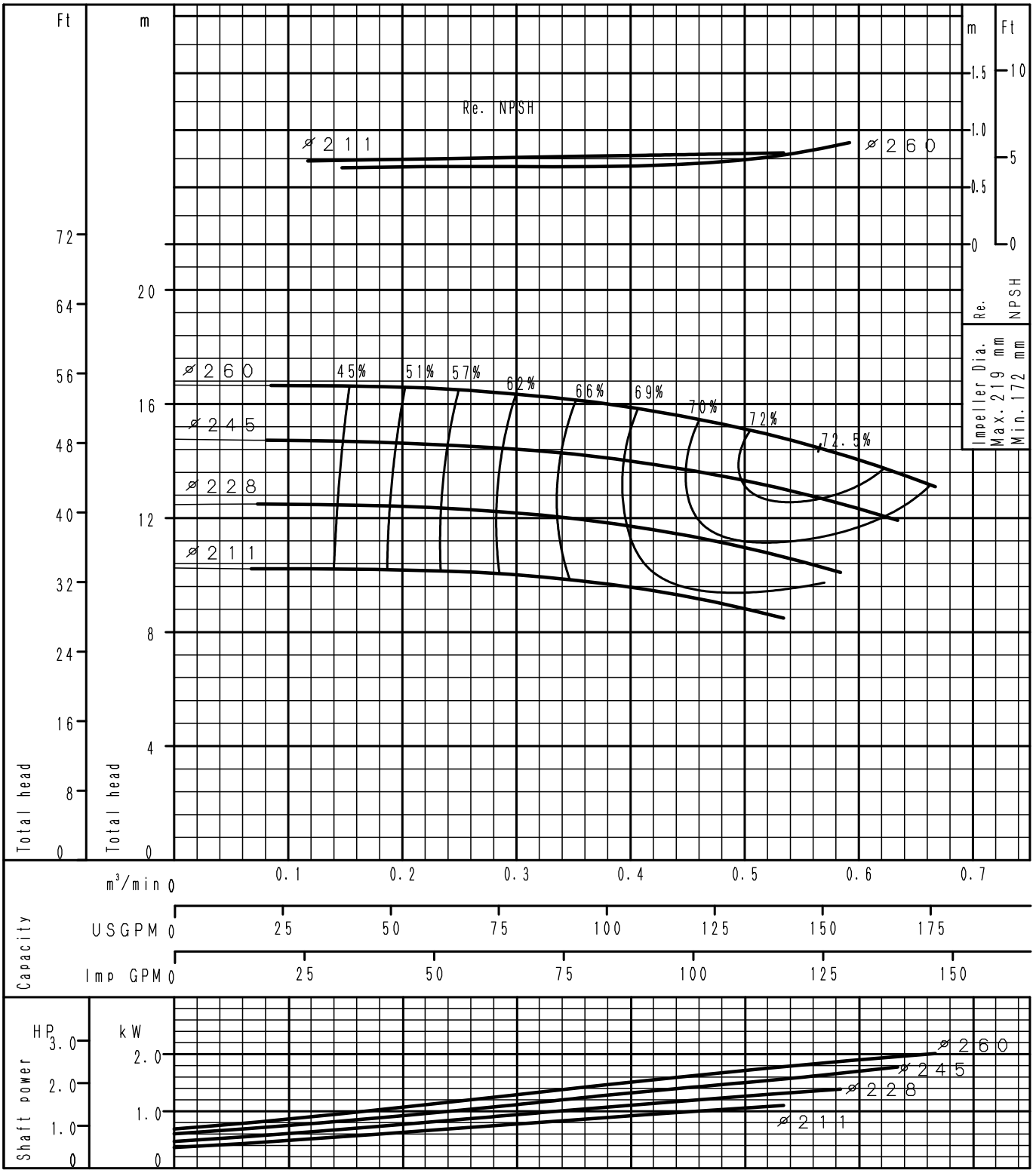
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS40-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632184-00

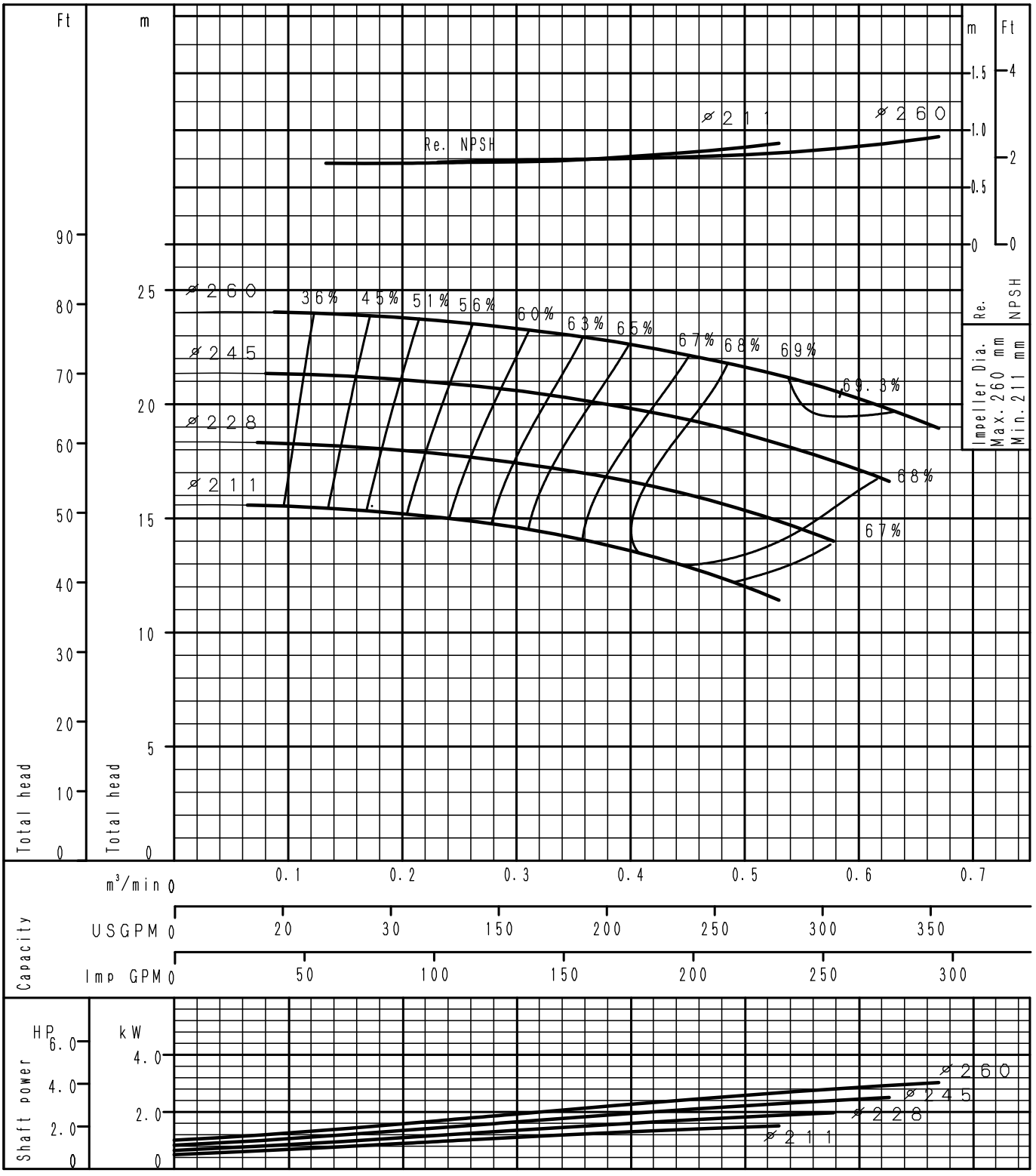
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS40-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632185-00

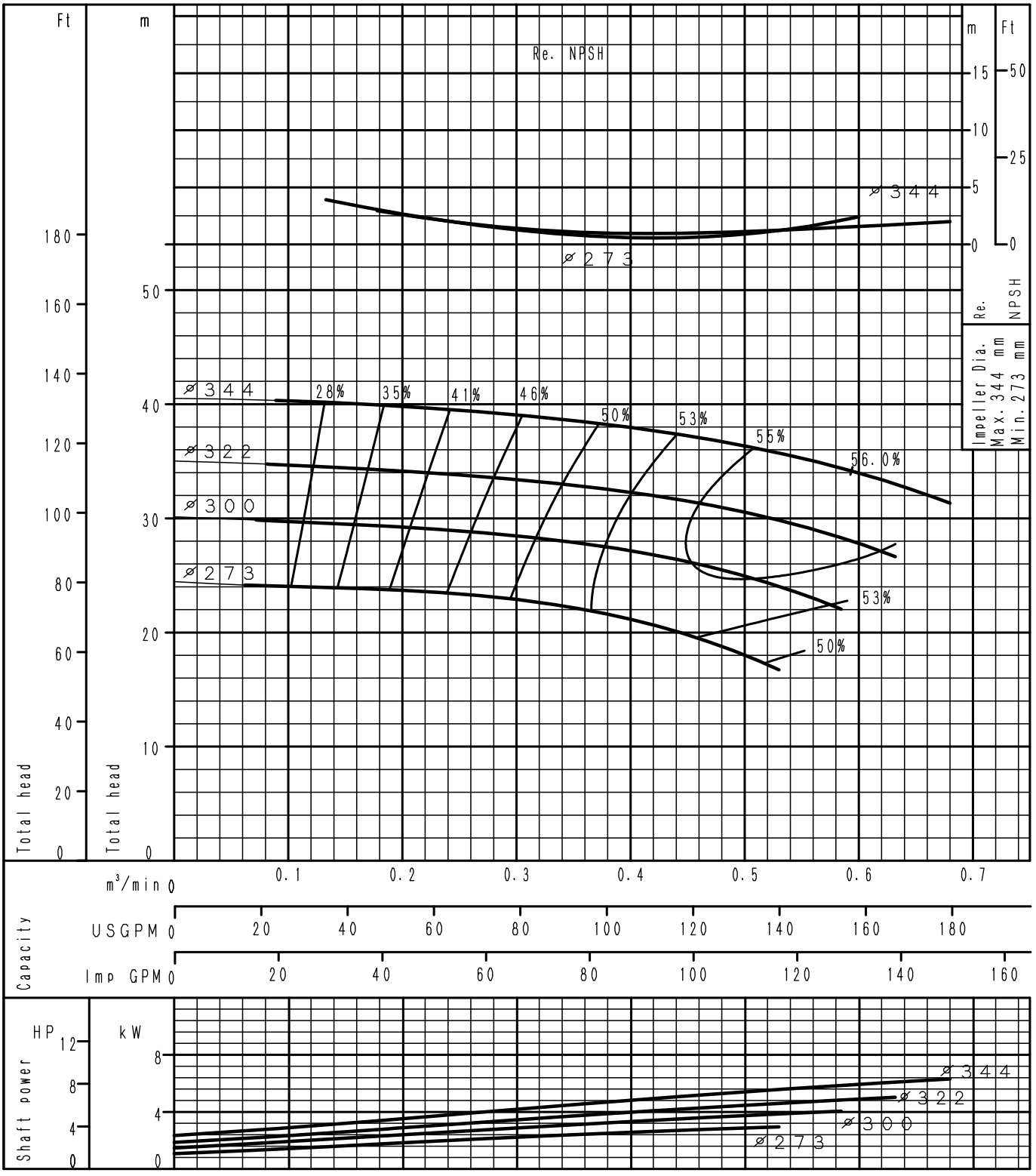
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS40-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632186-00

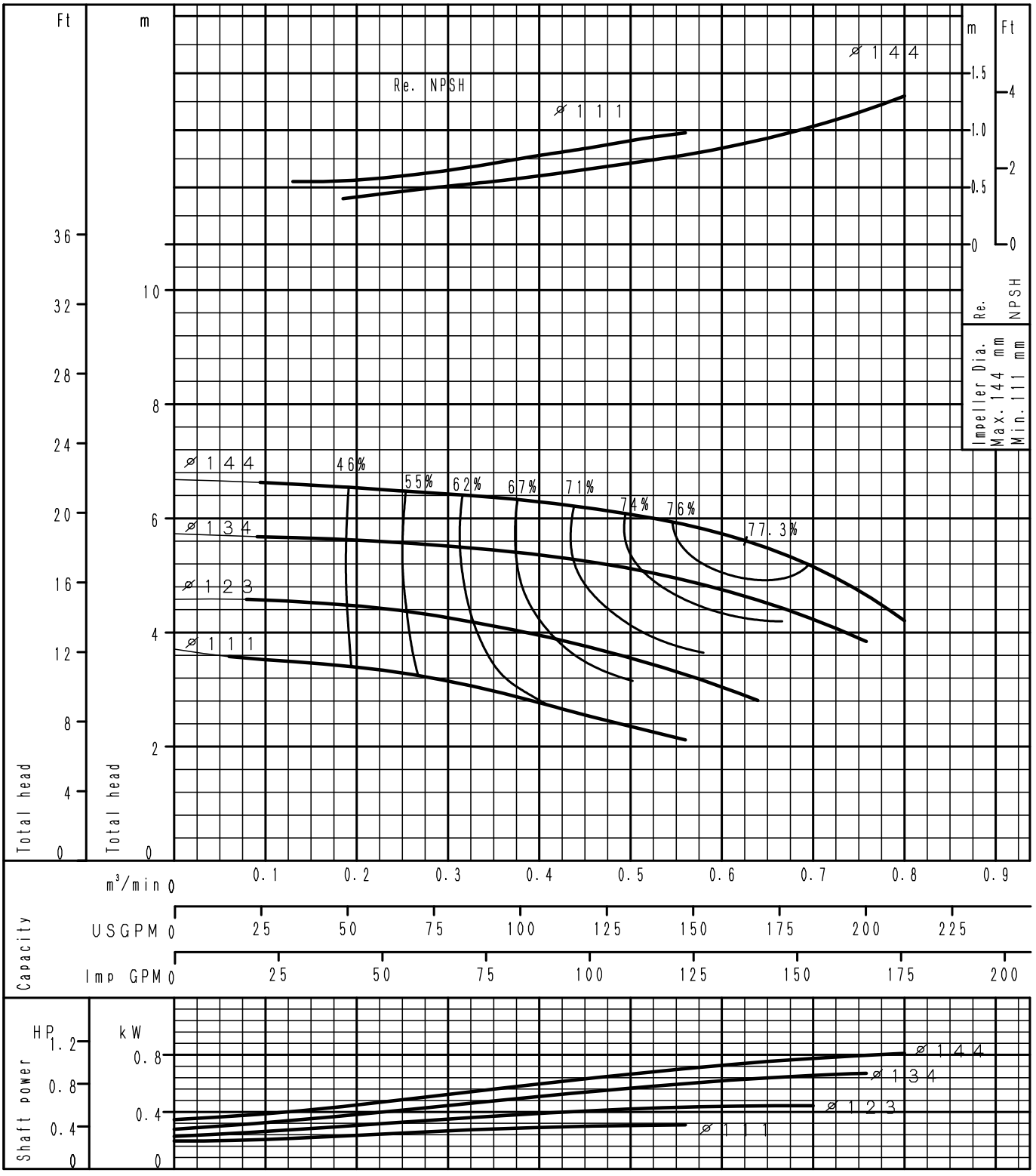
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS50-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632187-00

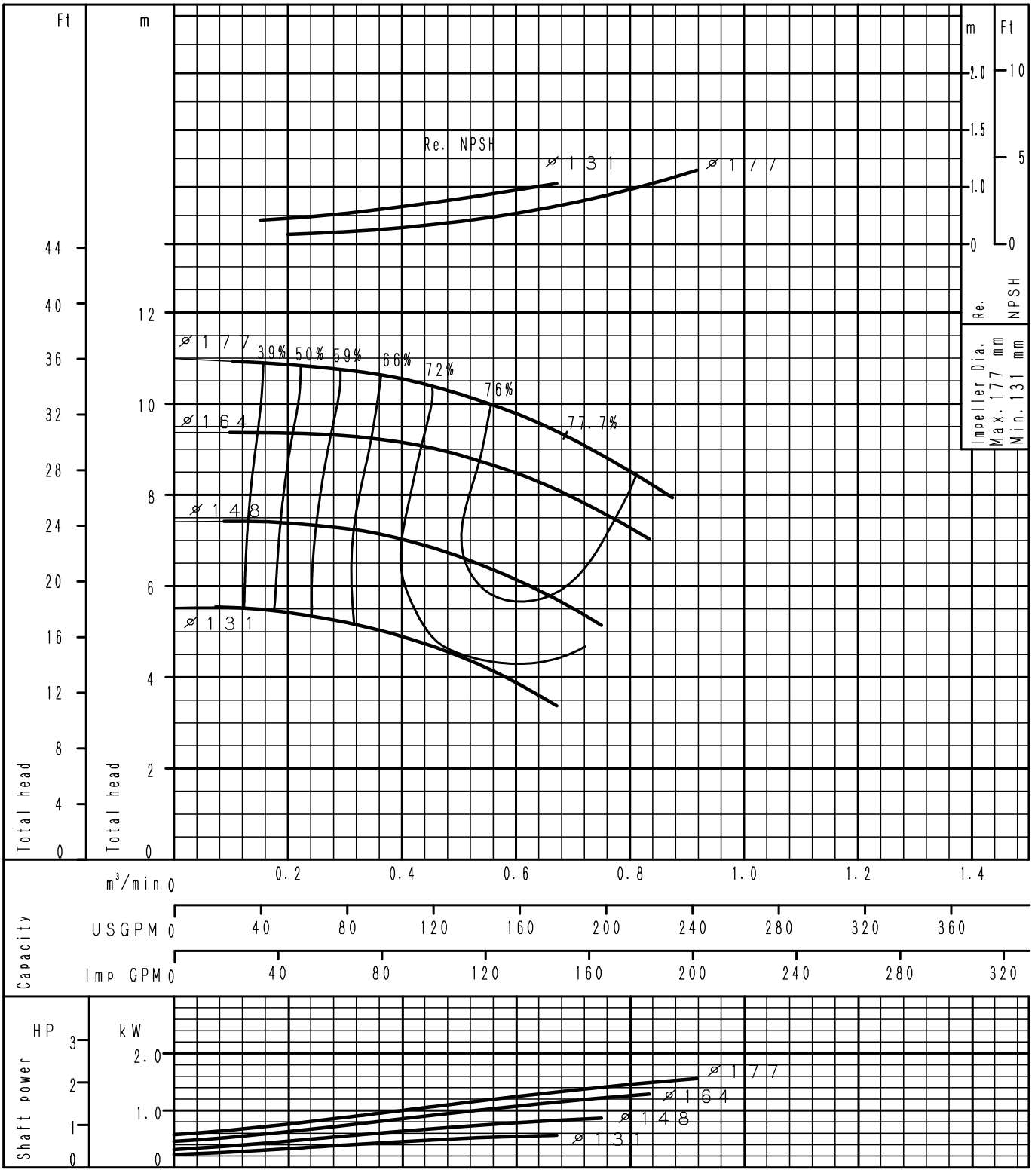
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS50-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632188-00

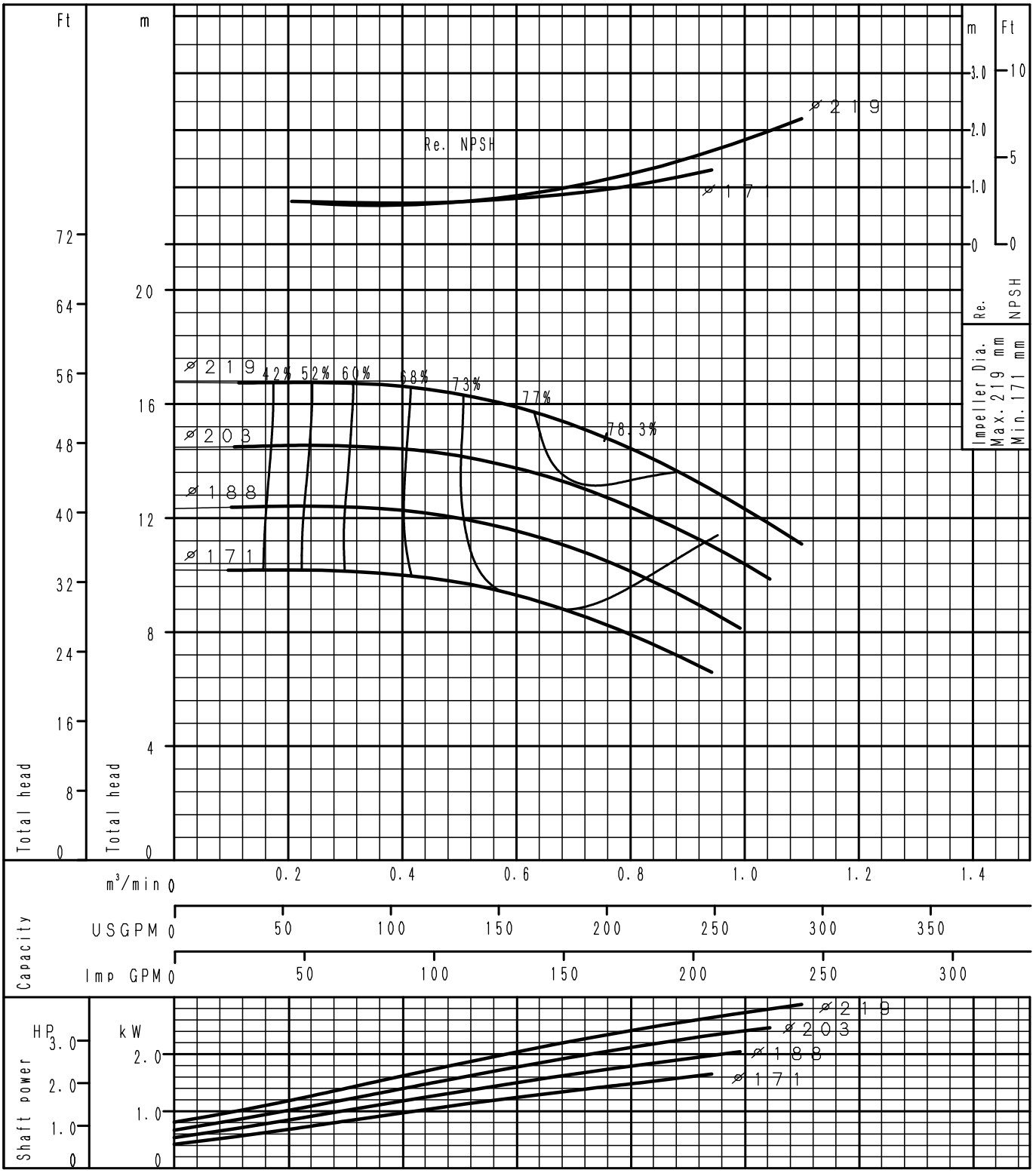
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS50-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632189-00

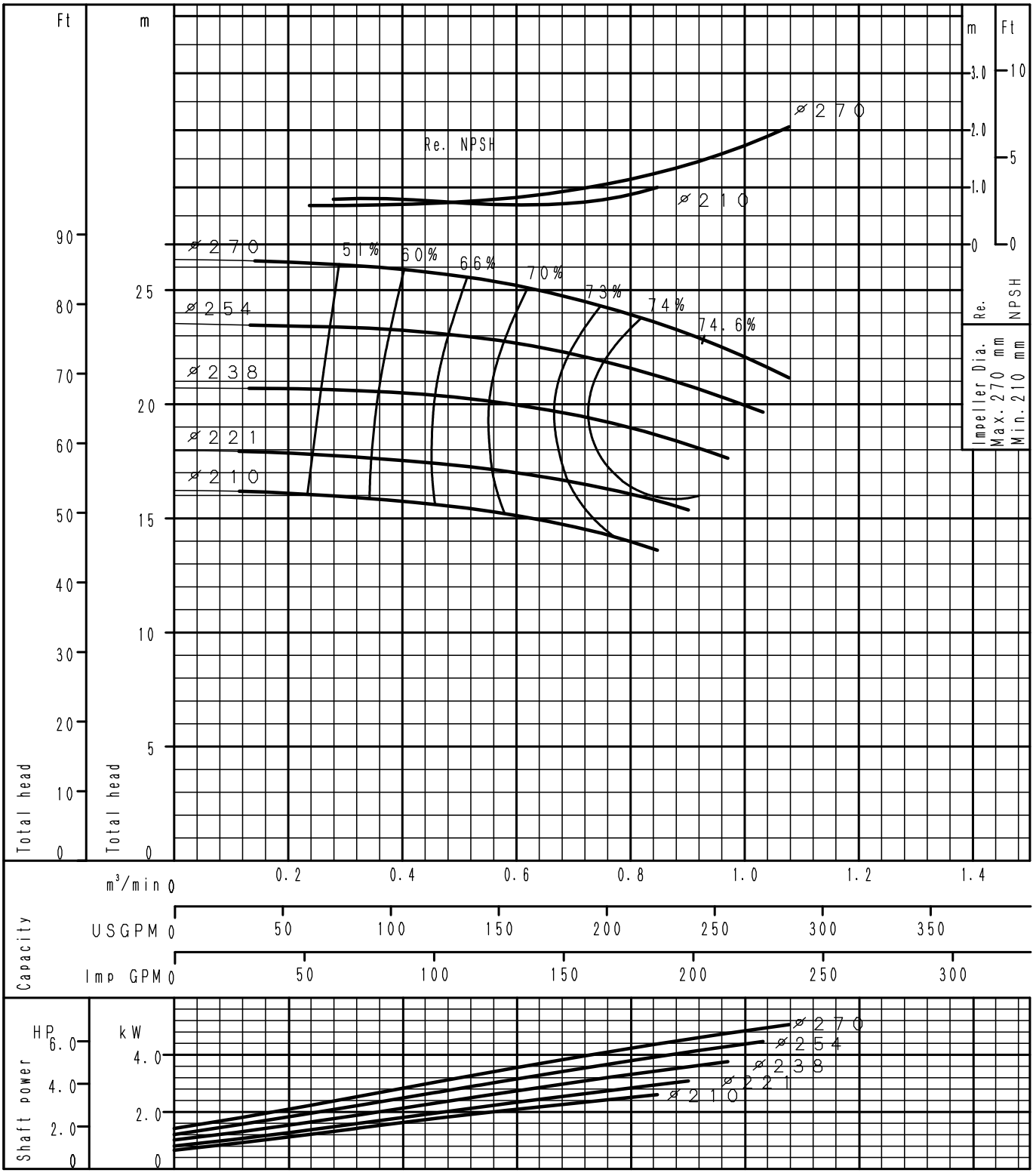
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS50-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632190-00

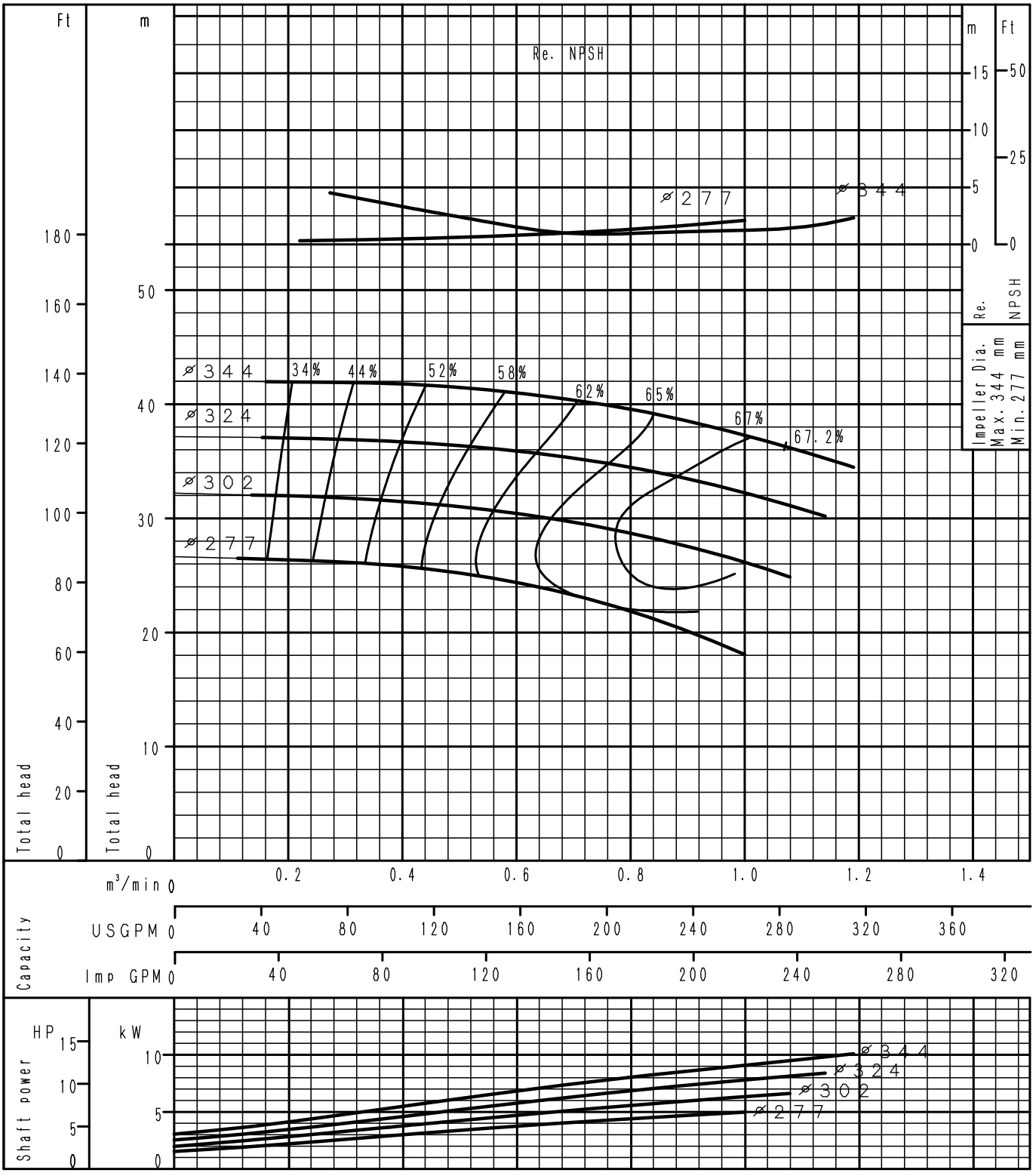
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS50-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632191-00

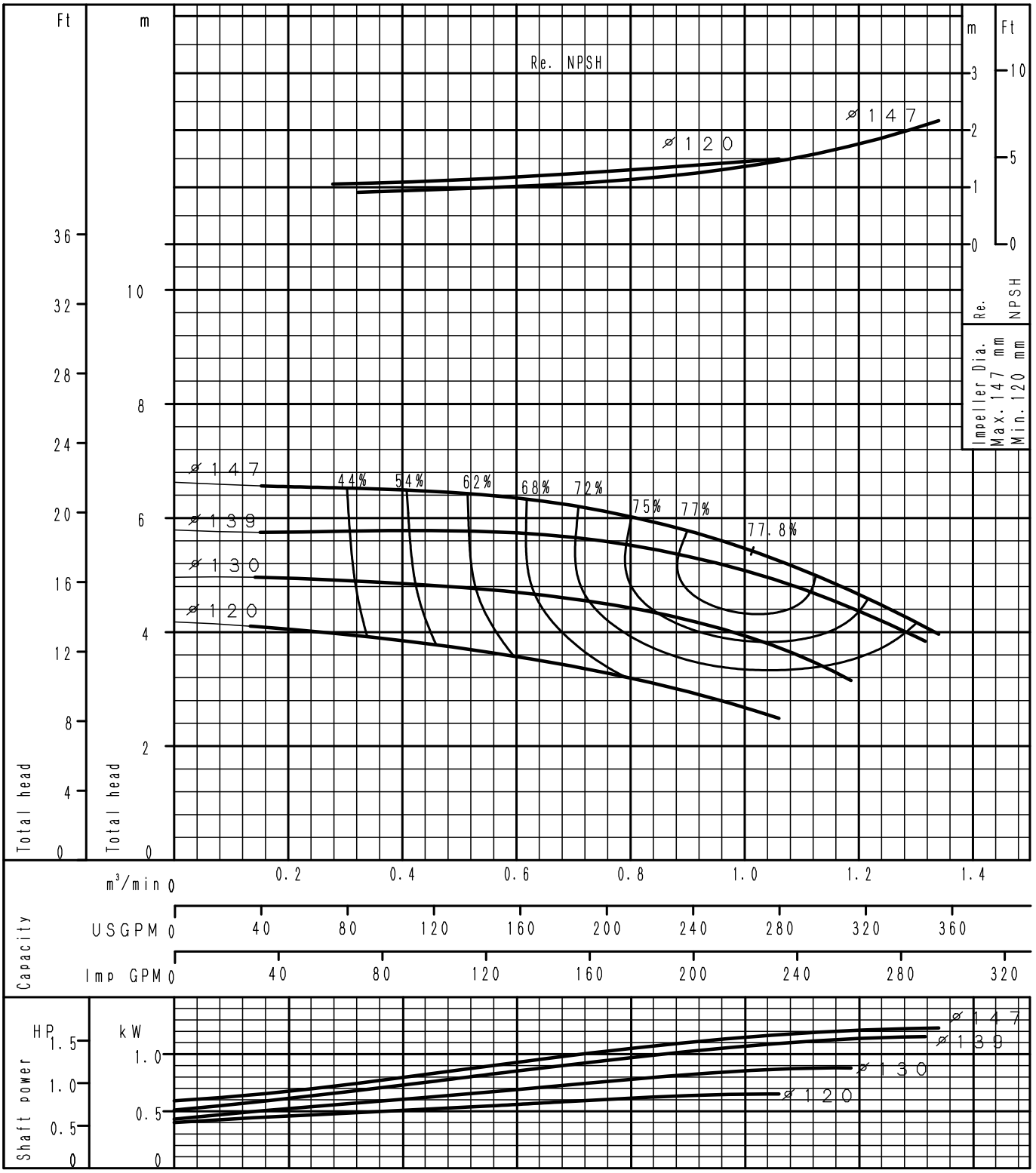
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS65-125	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

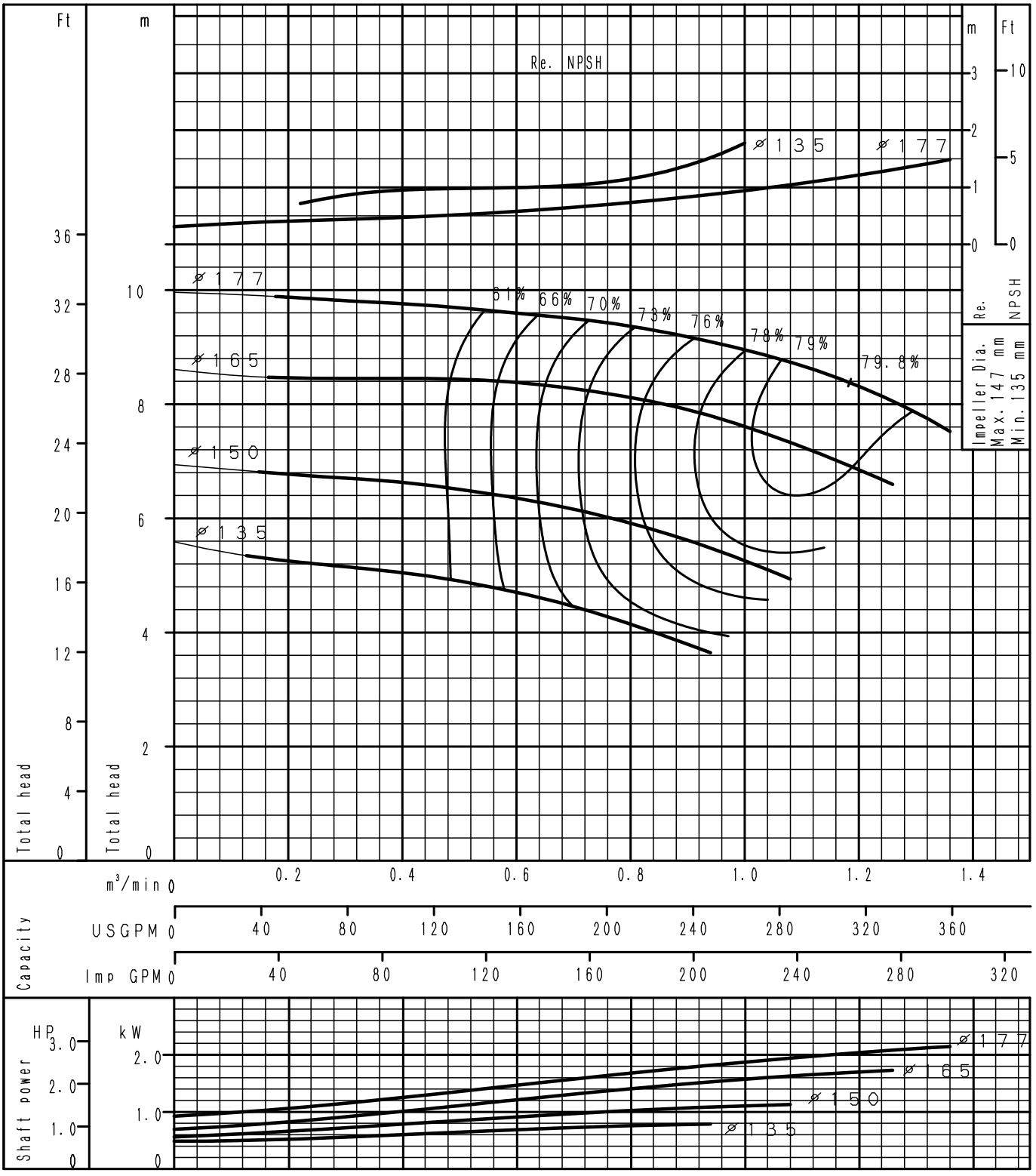
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS65-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632193-00

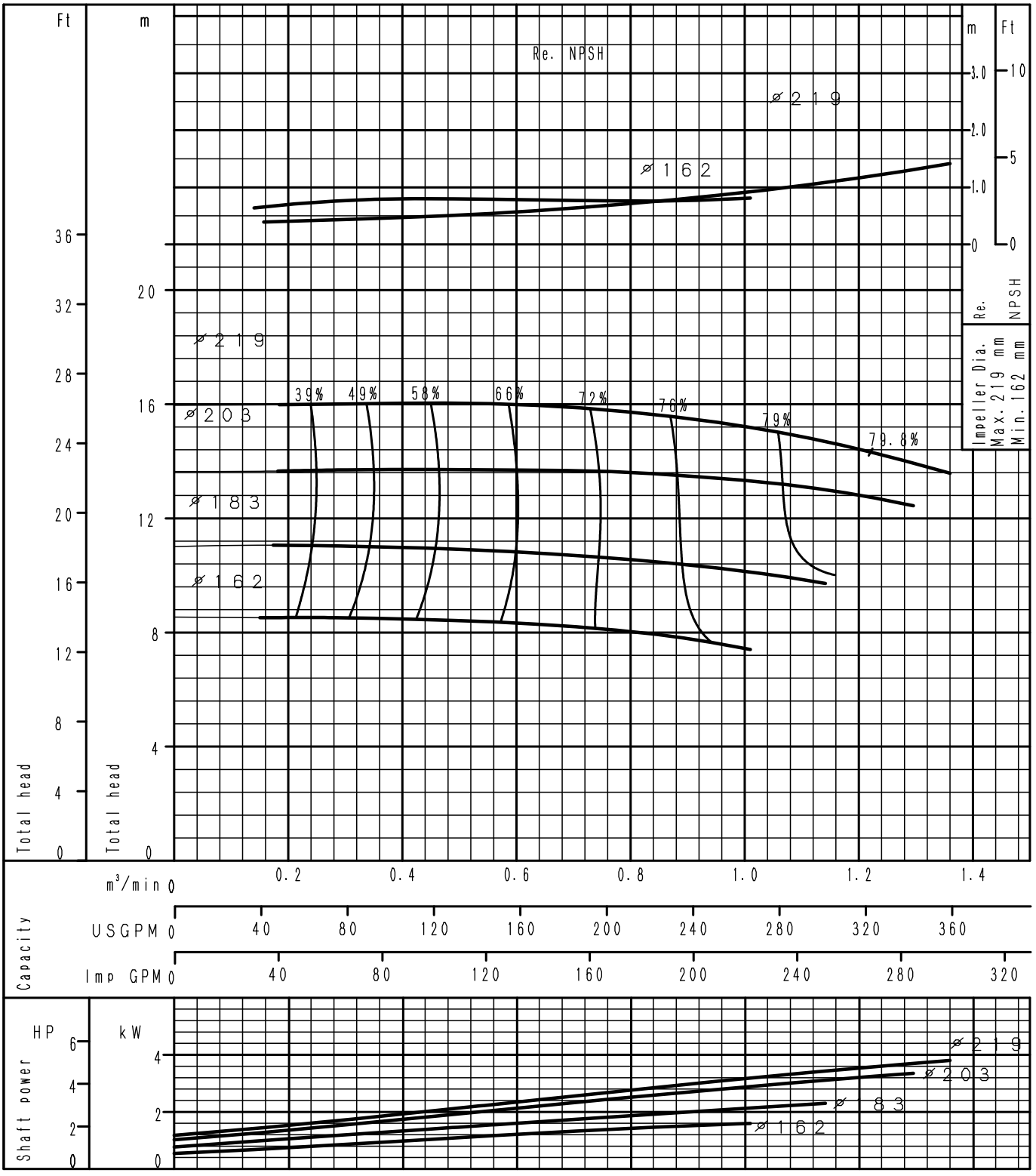
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS65-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632194-00

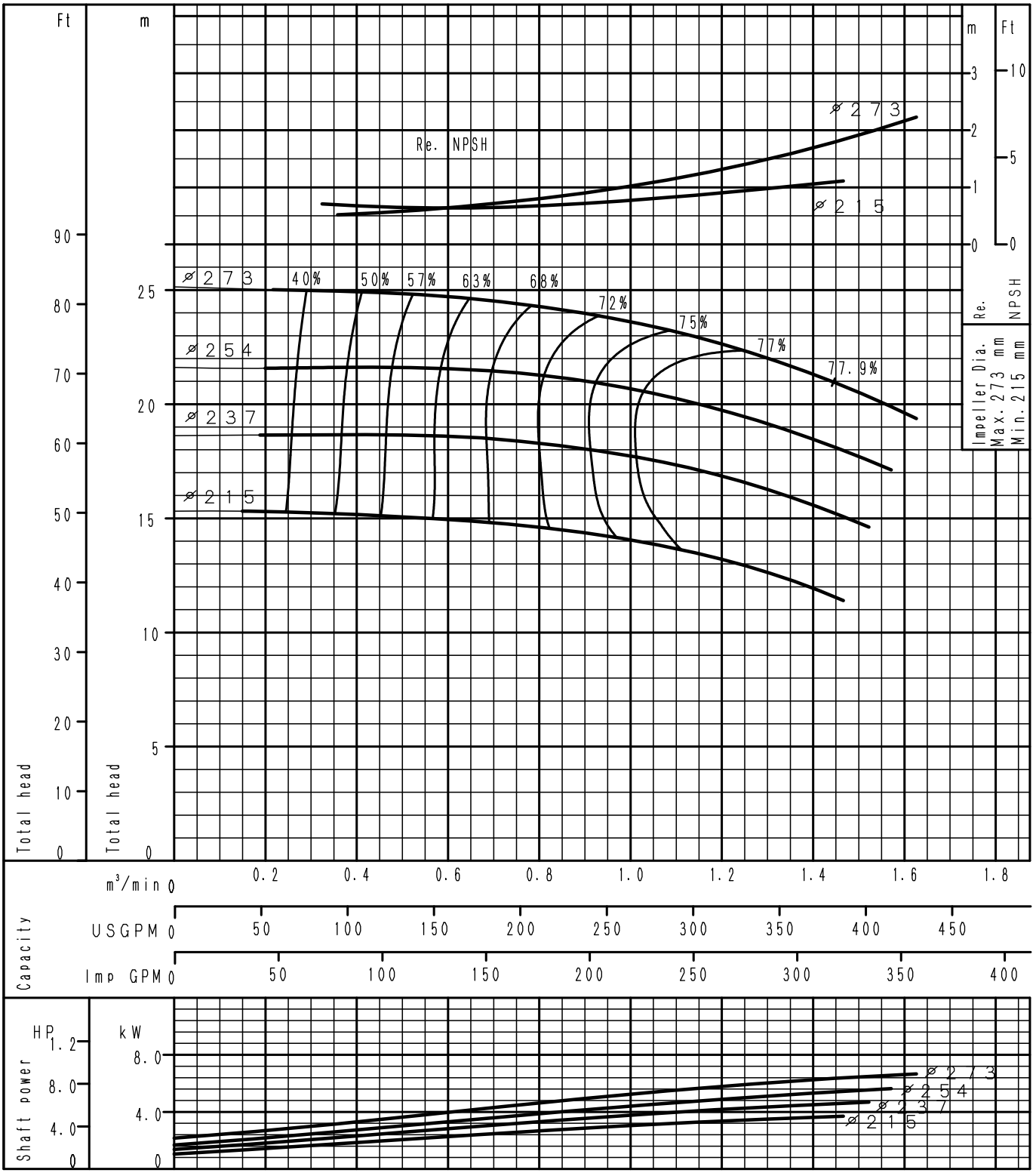
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS65-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632195-00

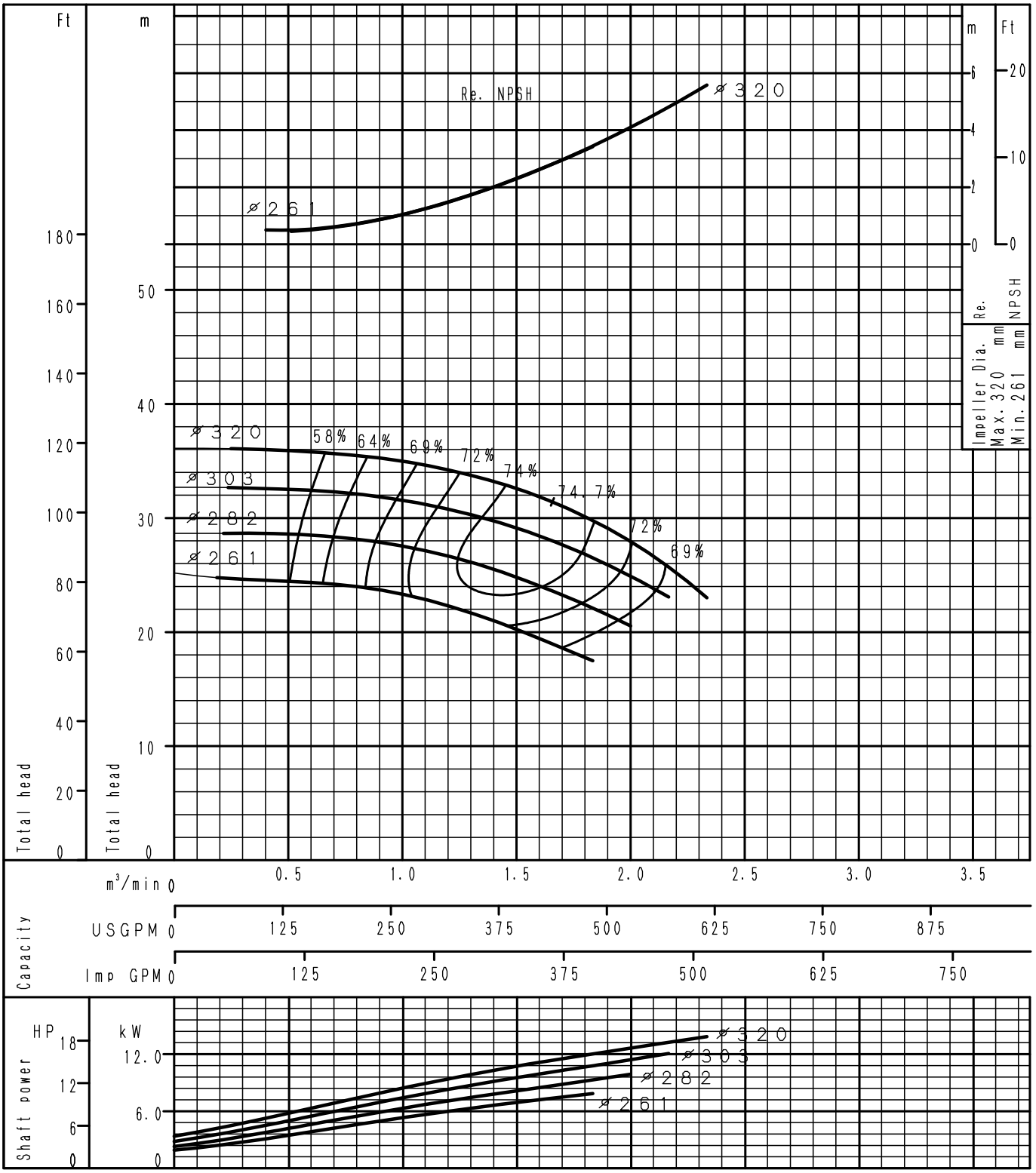
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS65-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632196-00

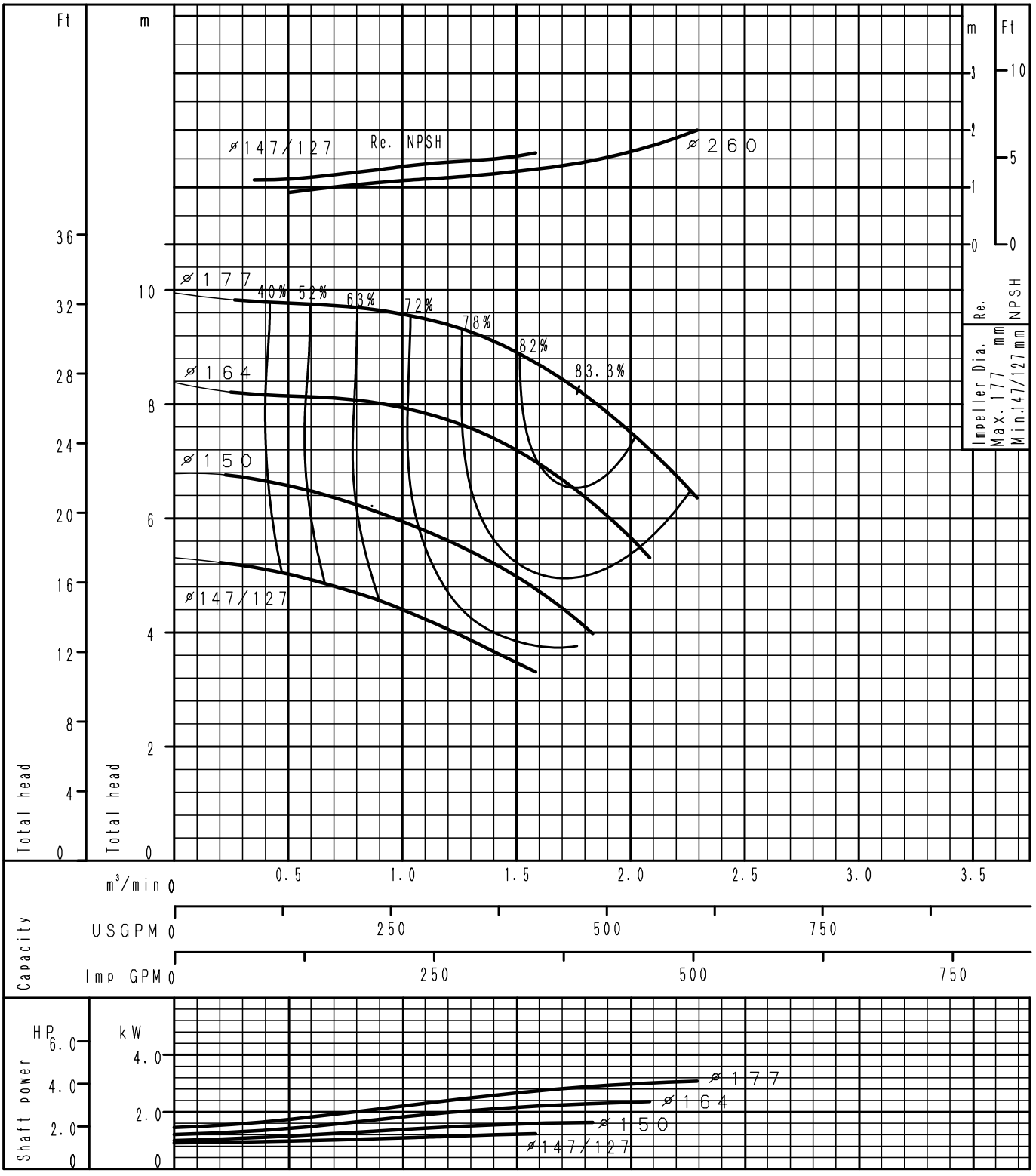
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS80-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632197-00

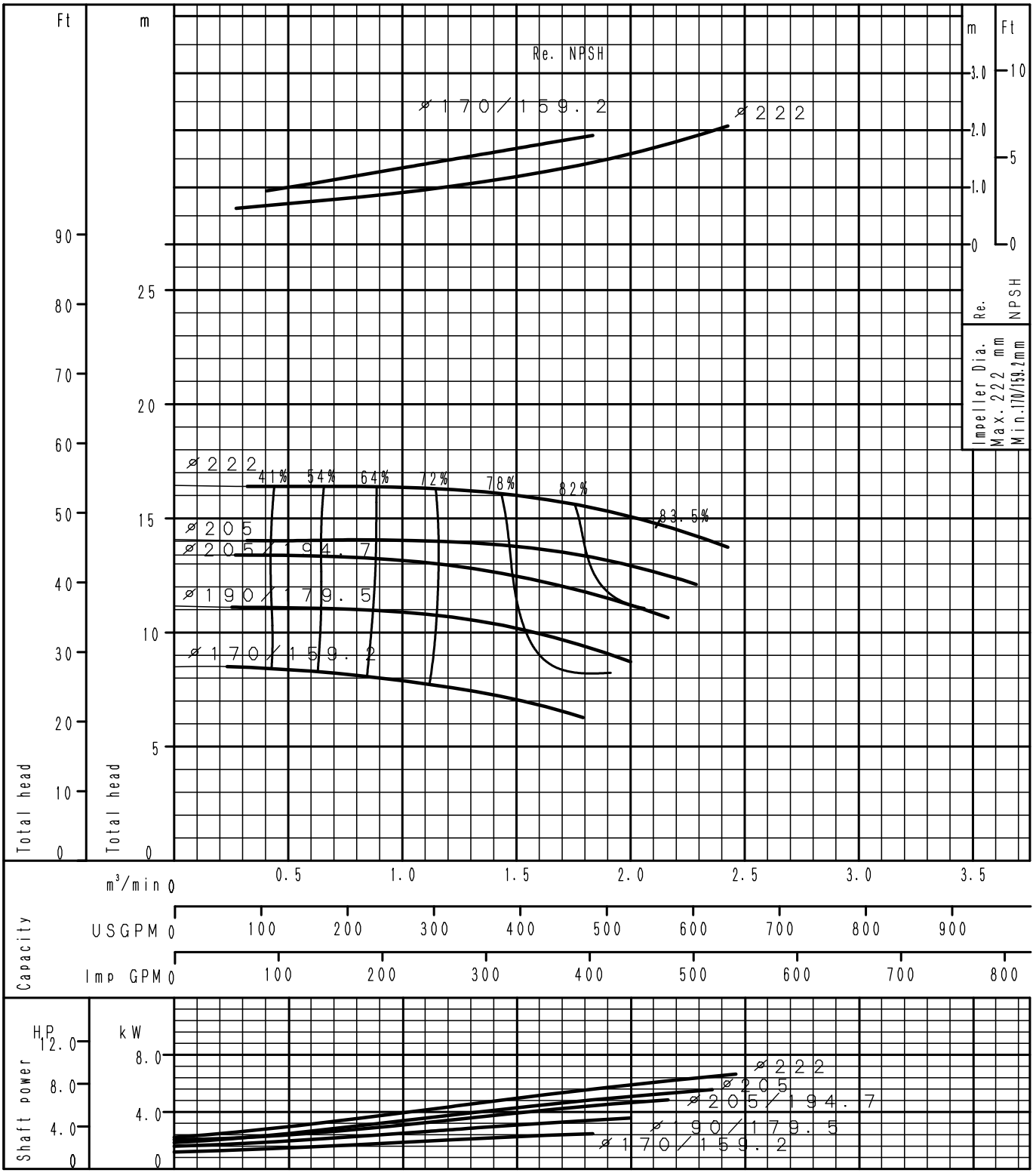
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS80-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632198-00

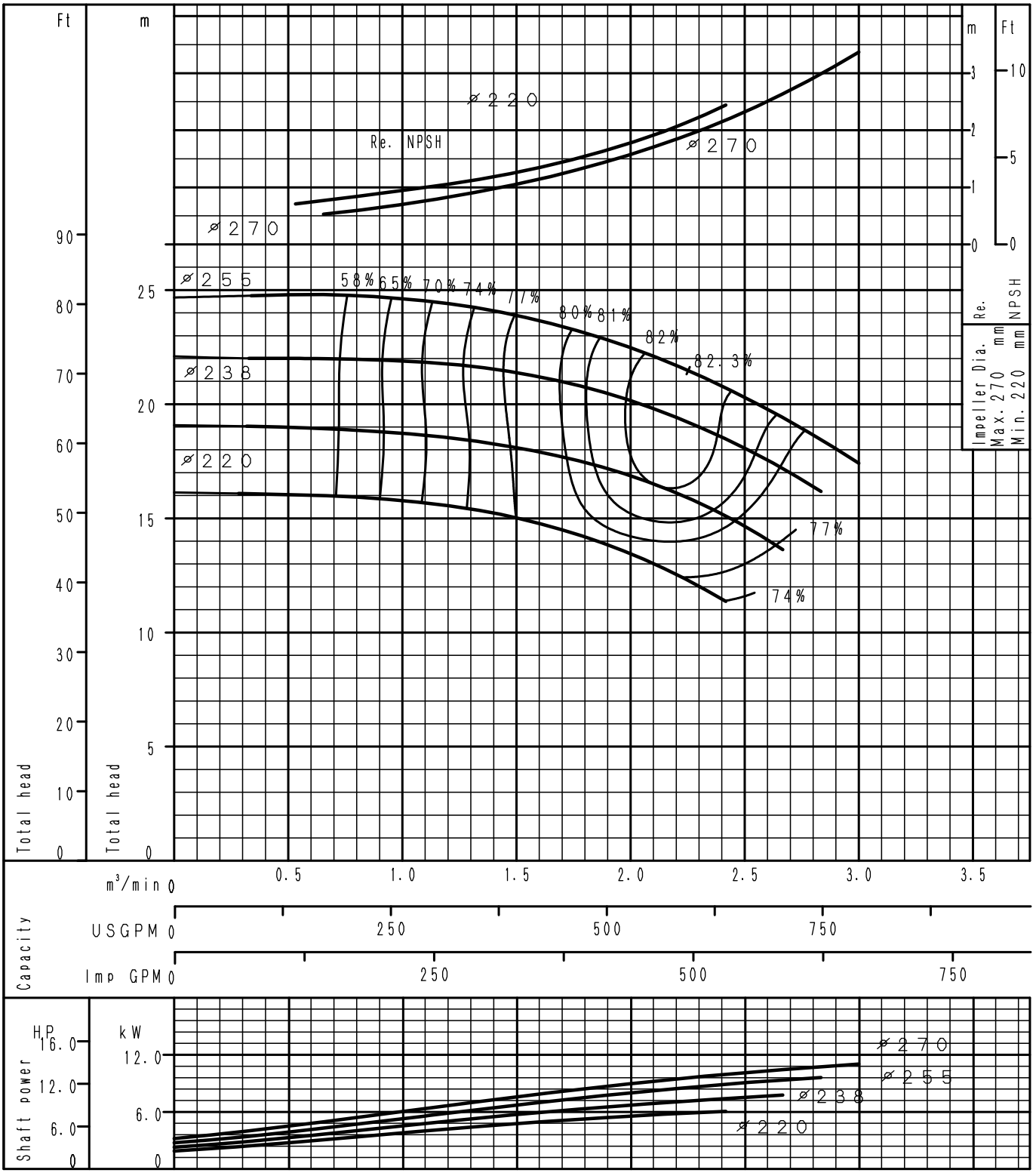
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS80-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632199-00

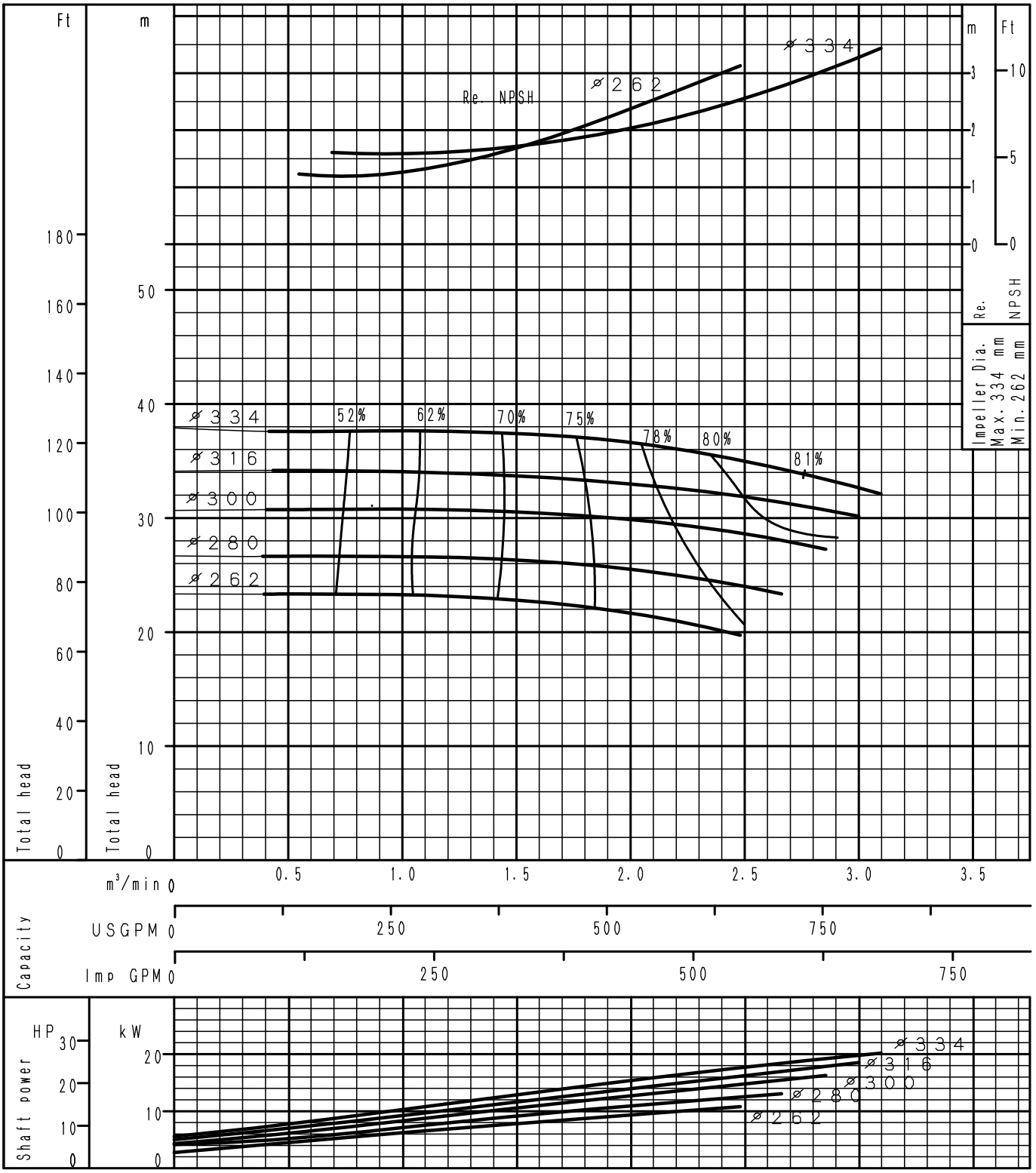
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS80-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632200-00

EBARA

EBARA CORPORATION

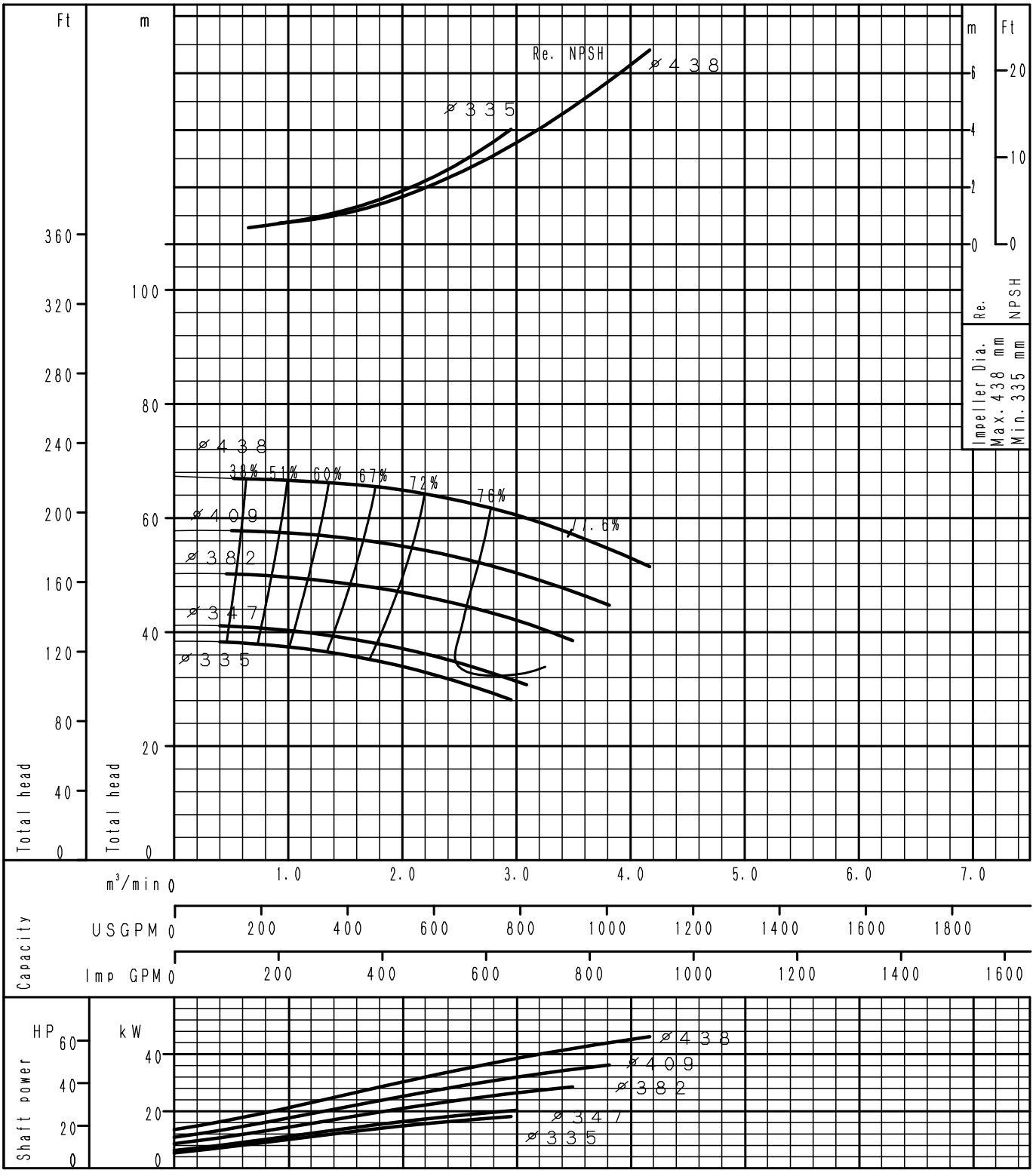
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS80-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632201-00

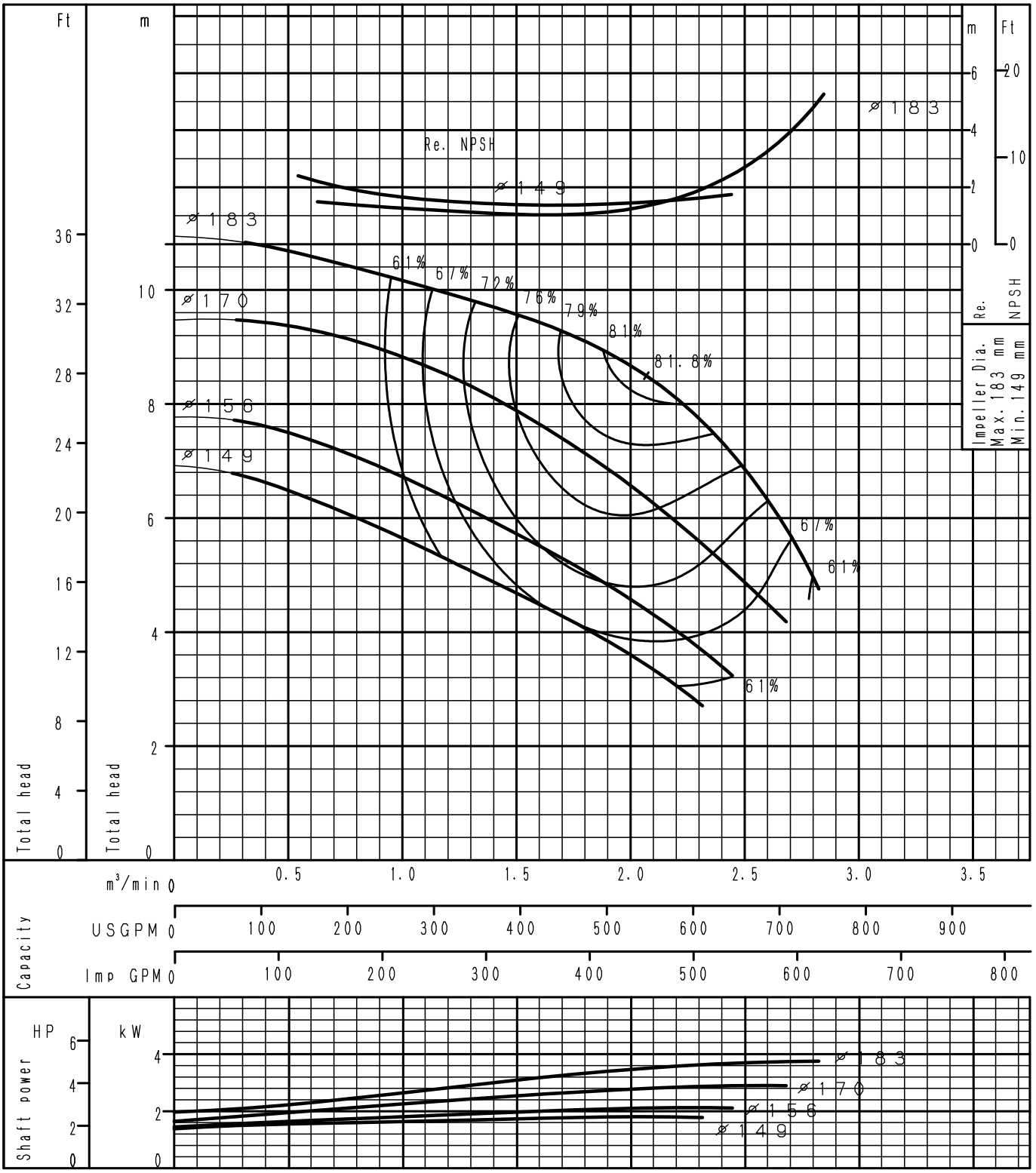
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS100-160	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632202-00

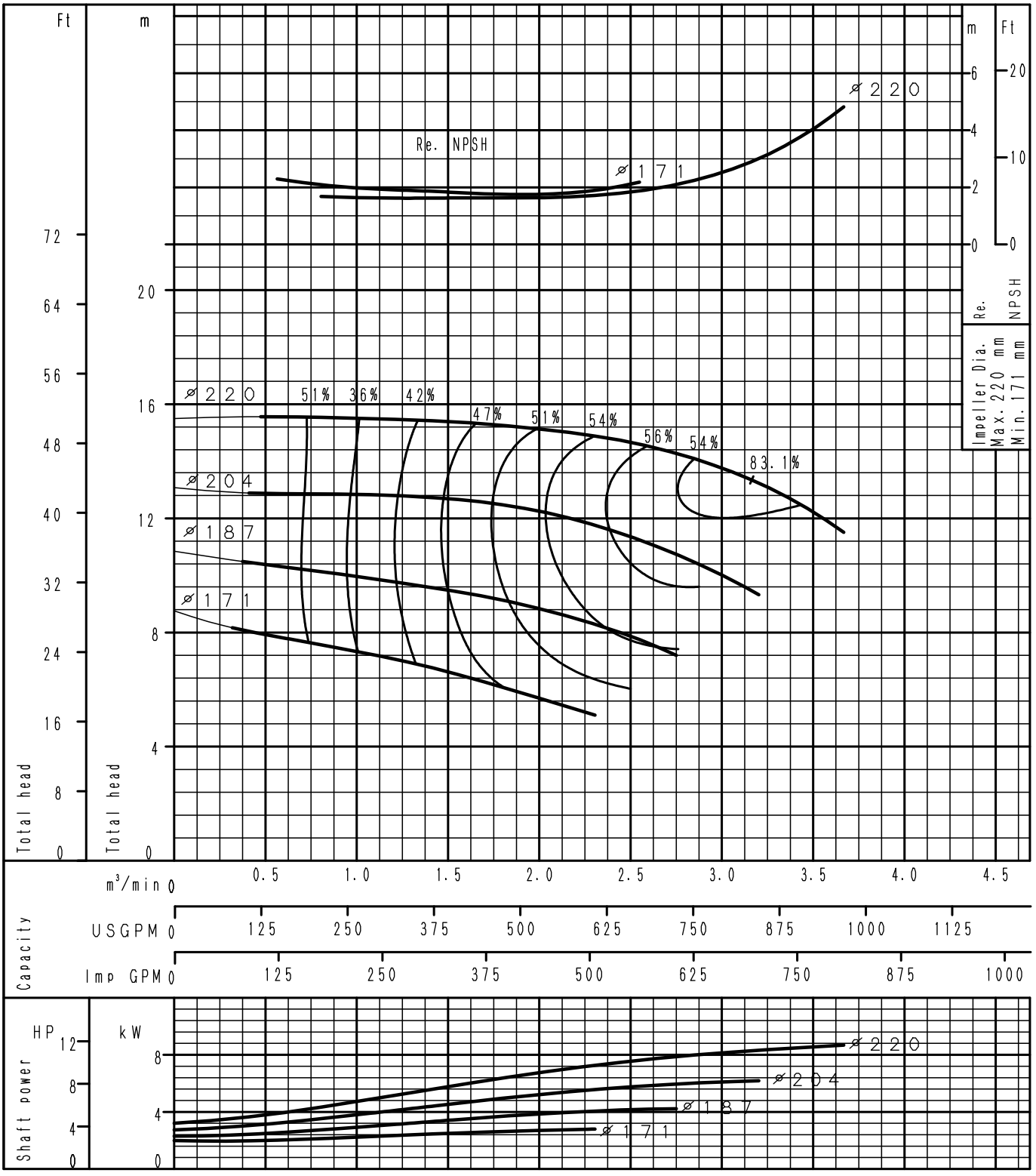
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS100-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632203-00

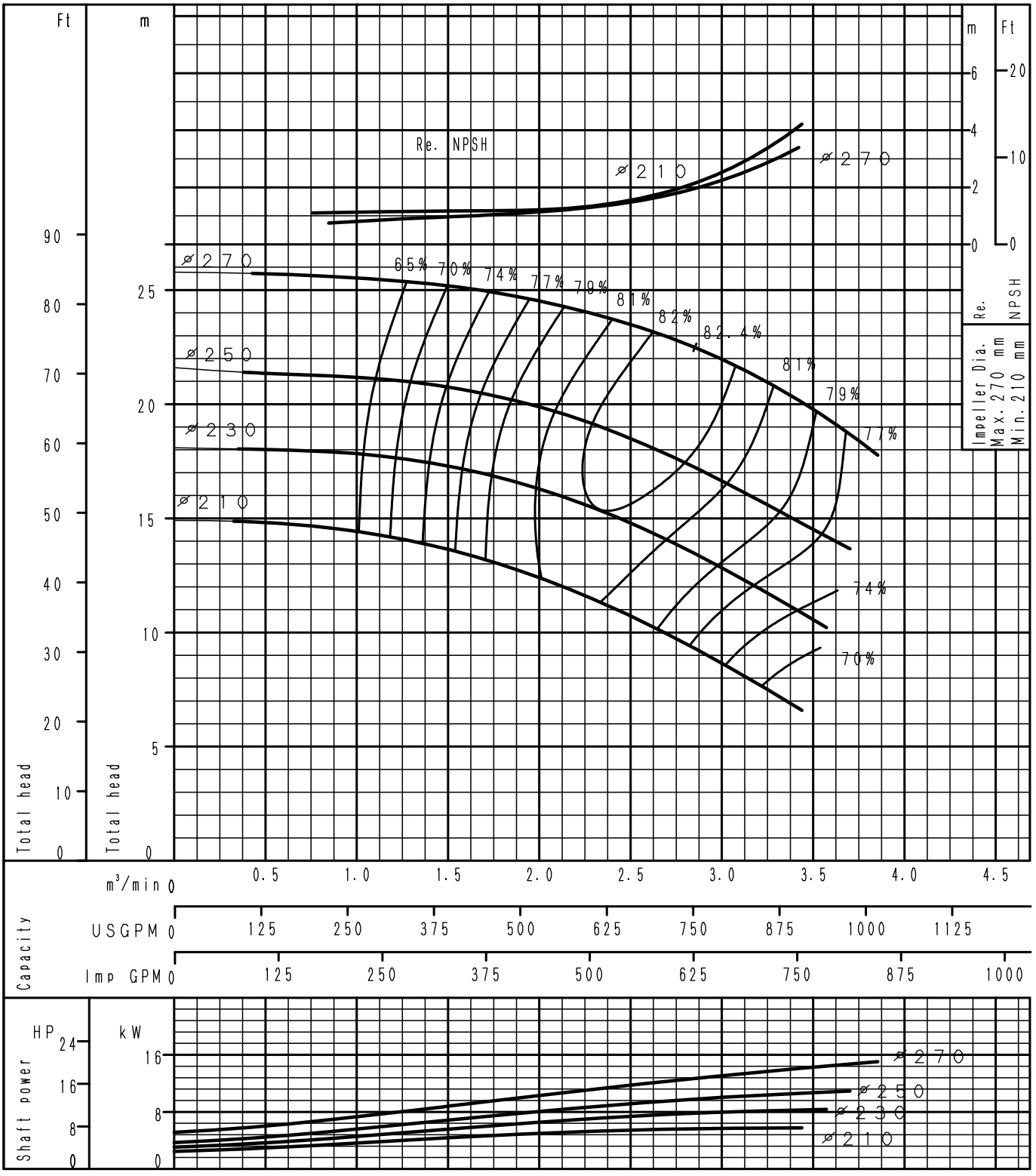
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS100-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632204-00

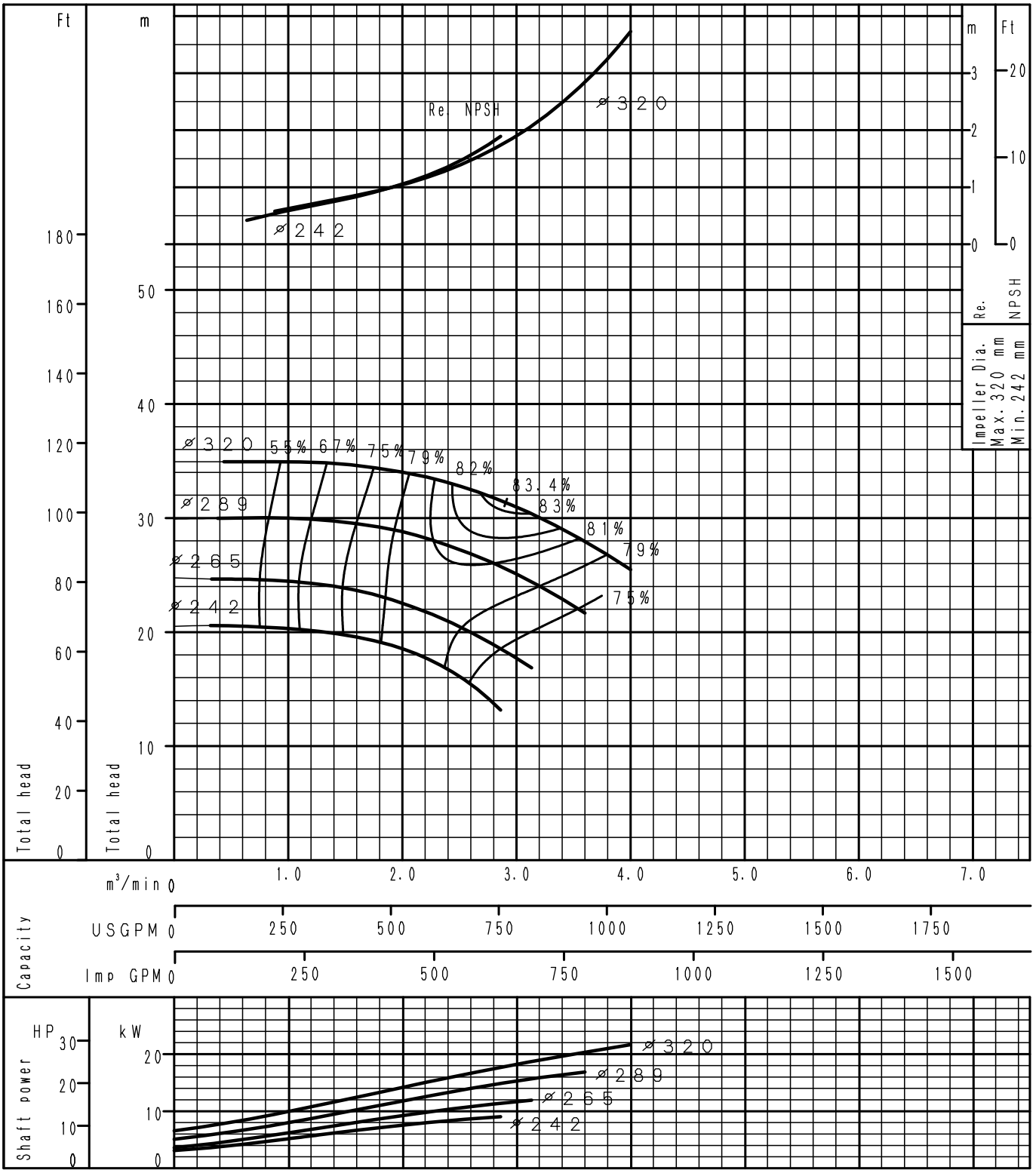
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS100-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632205-00

EBARA

EBARA CORPORATION

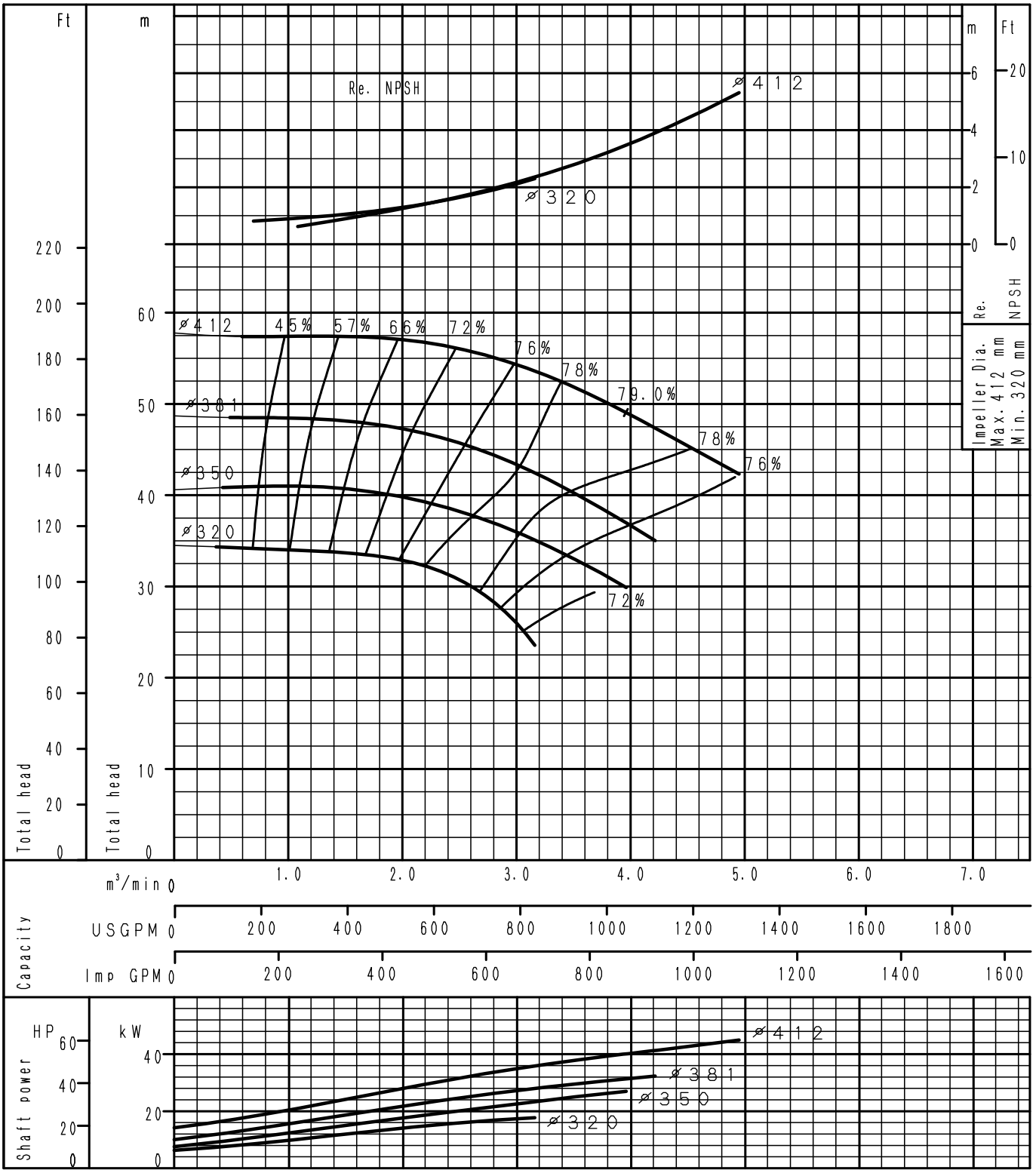
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS100-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632206-00

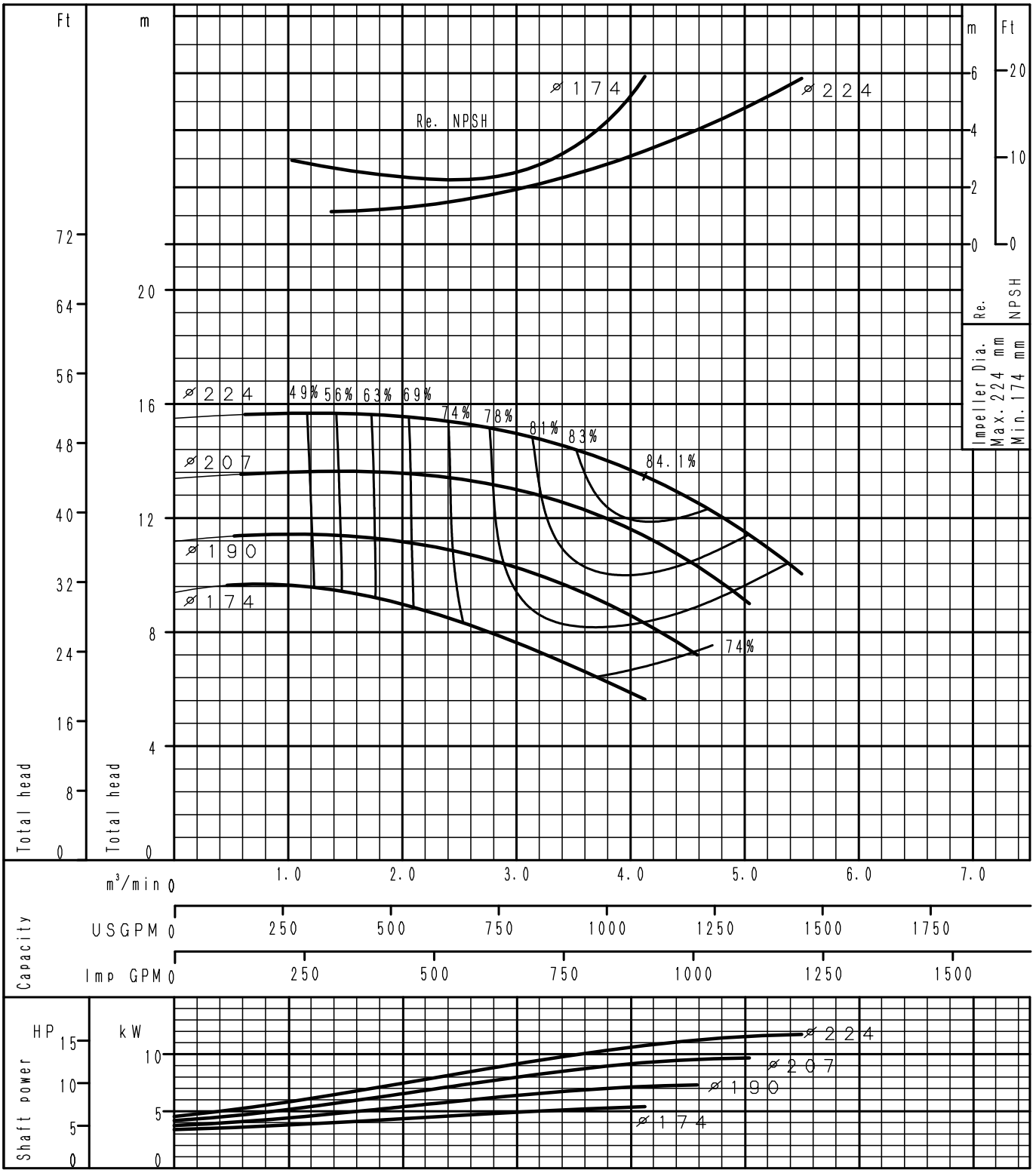
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS125-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



F8-1632207-00

EBARA

EBARA CORPORATION

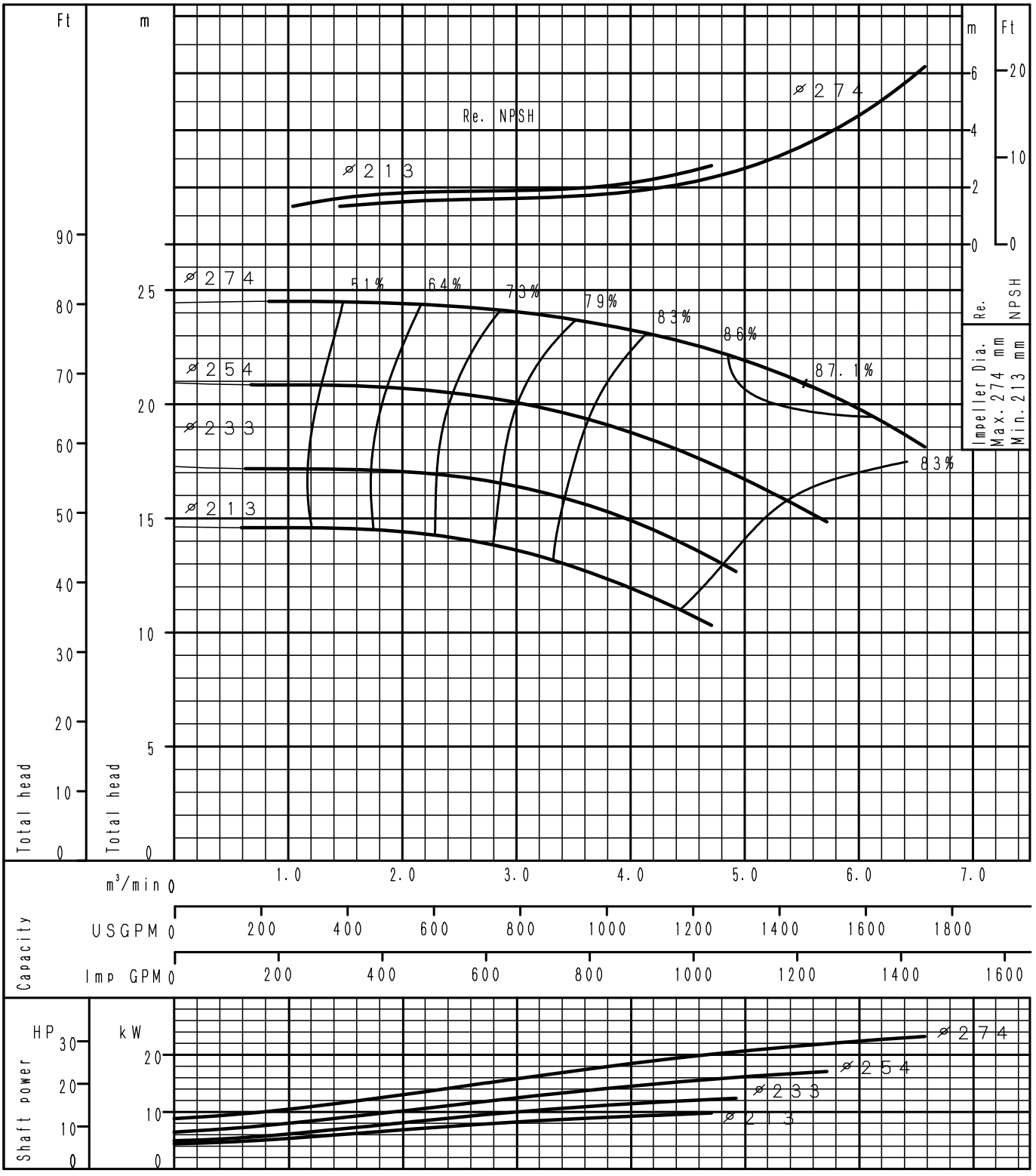
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS125-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632208-00

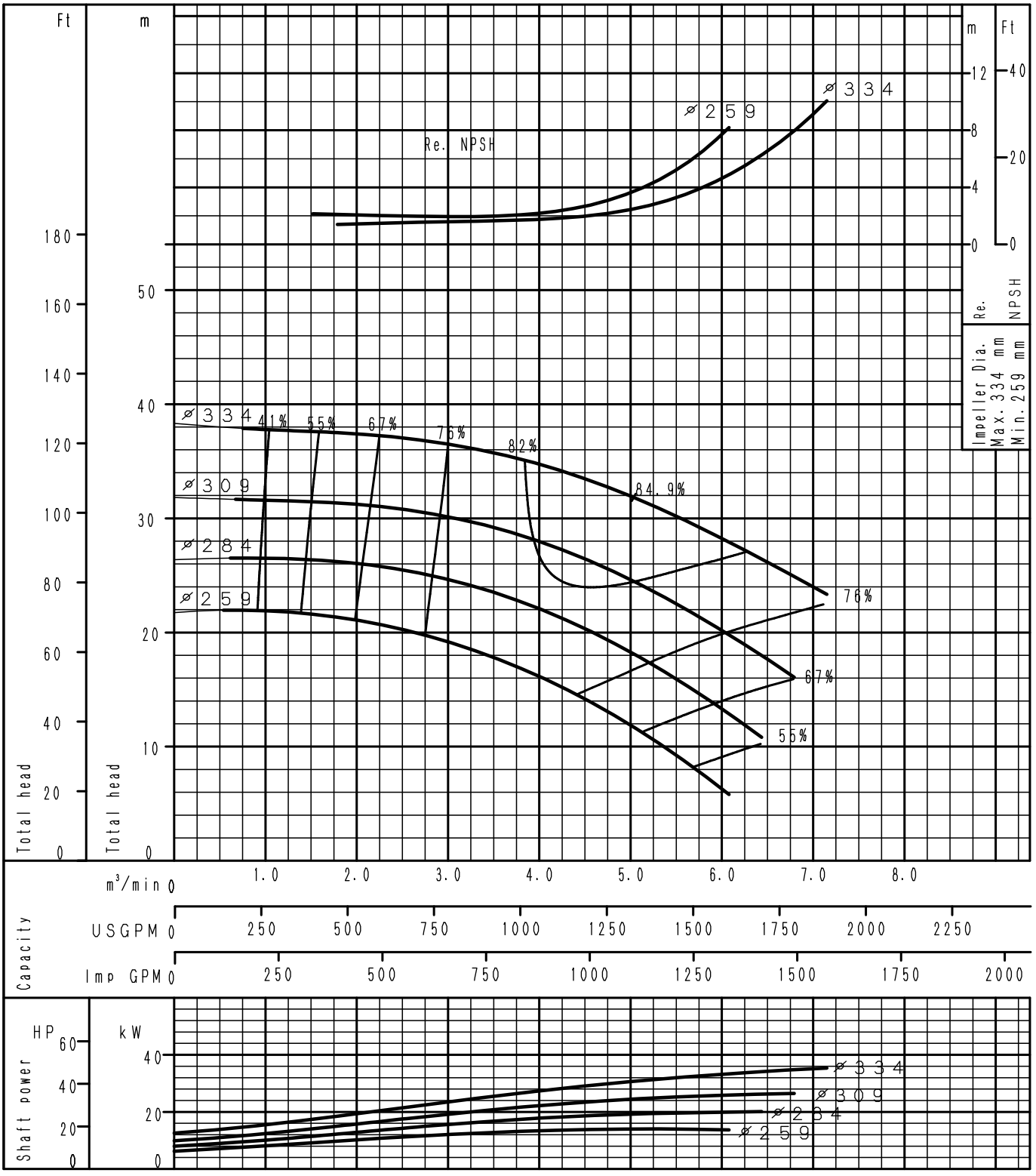
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS125-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632209-00

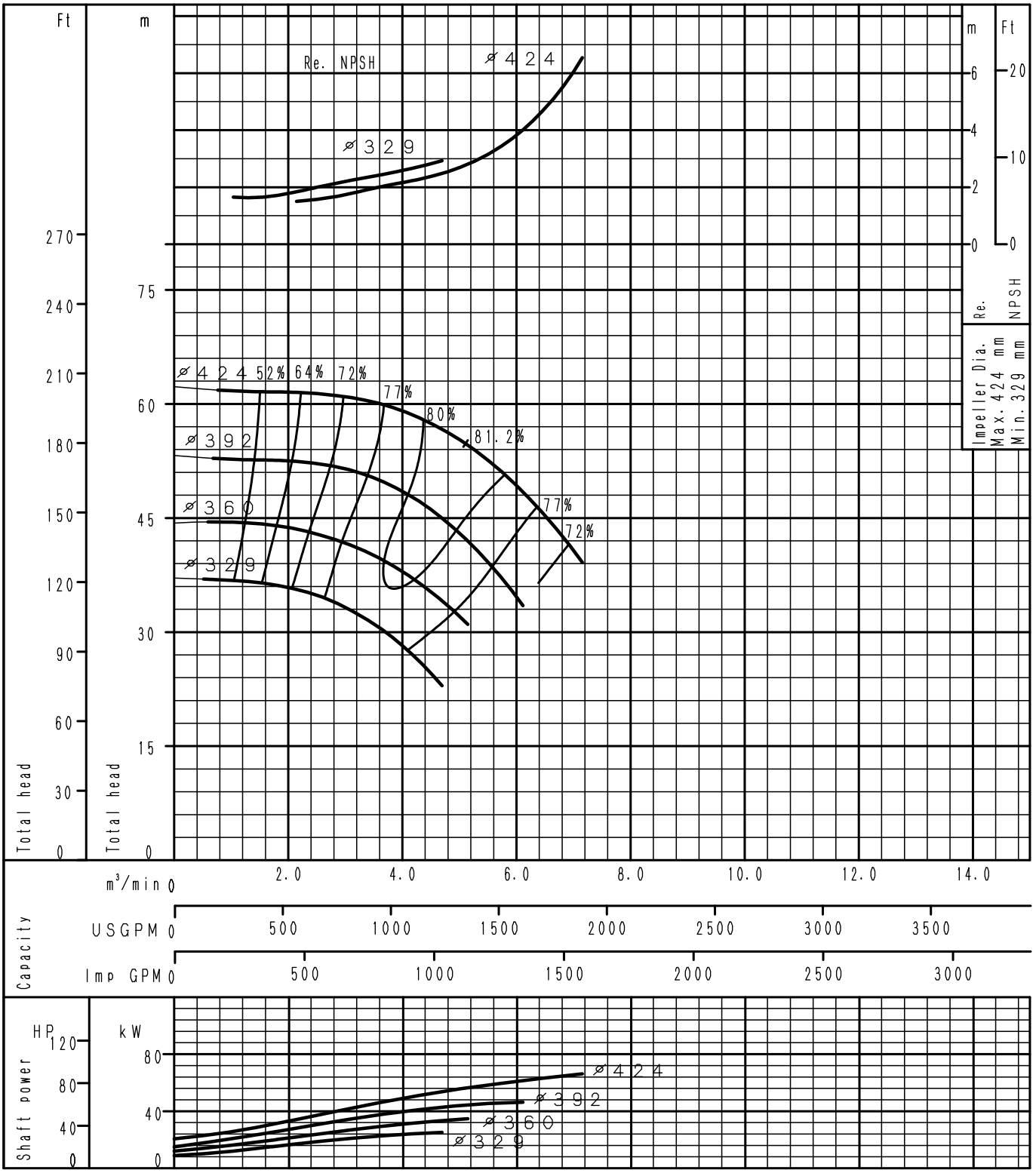
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS125-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632210-00

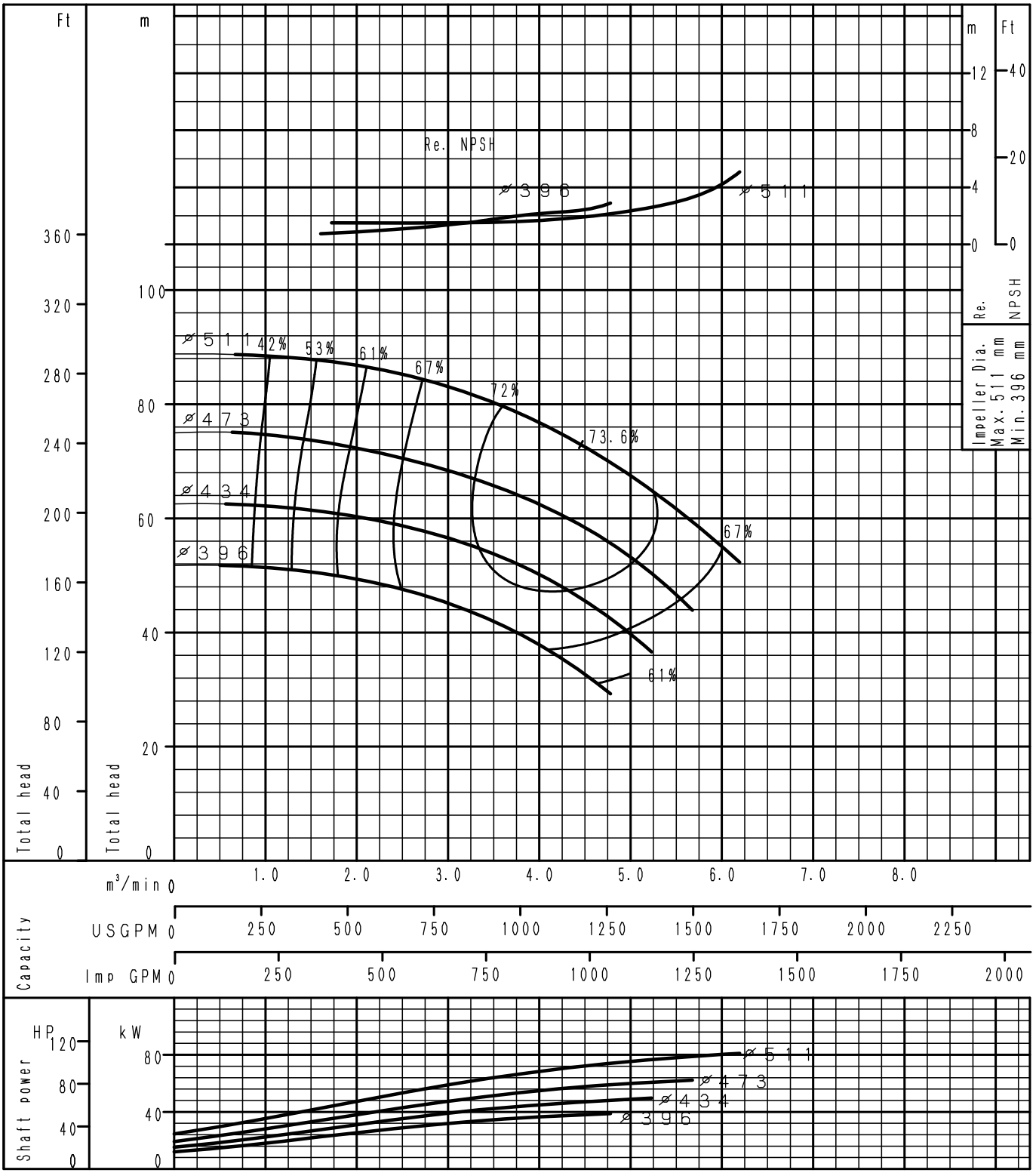
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS125-500	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



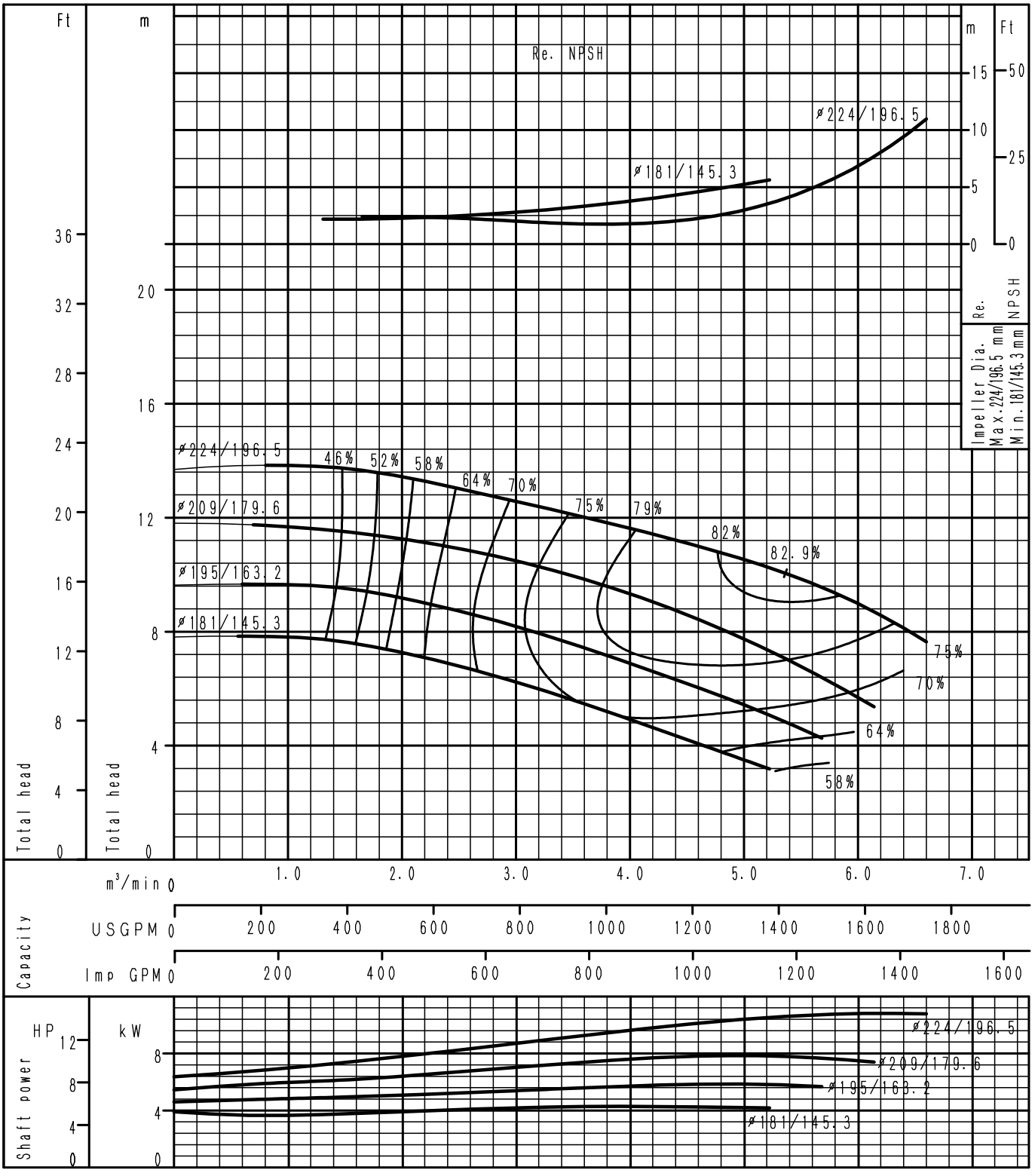
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS150-200	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632212-00

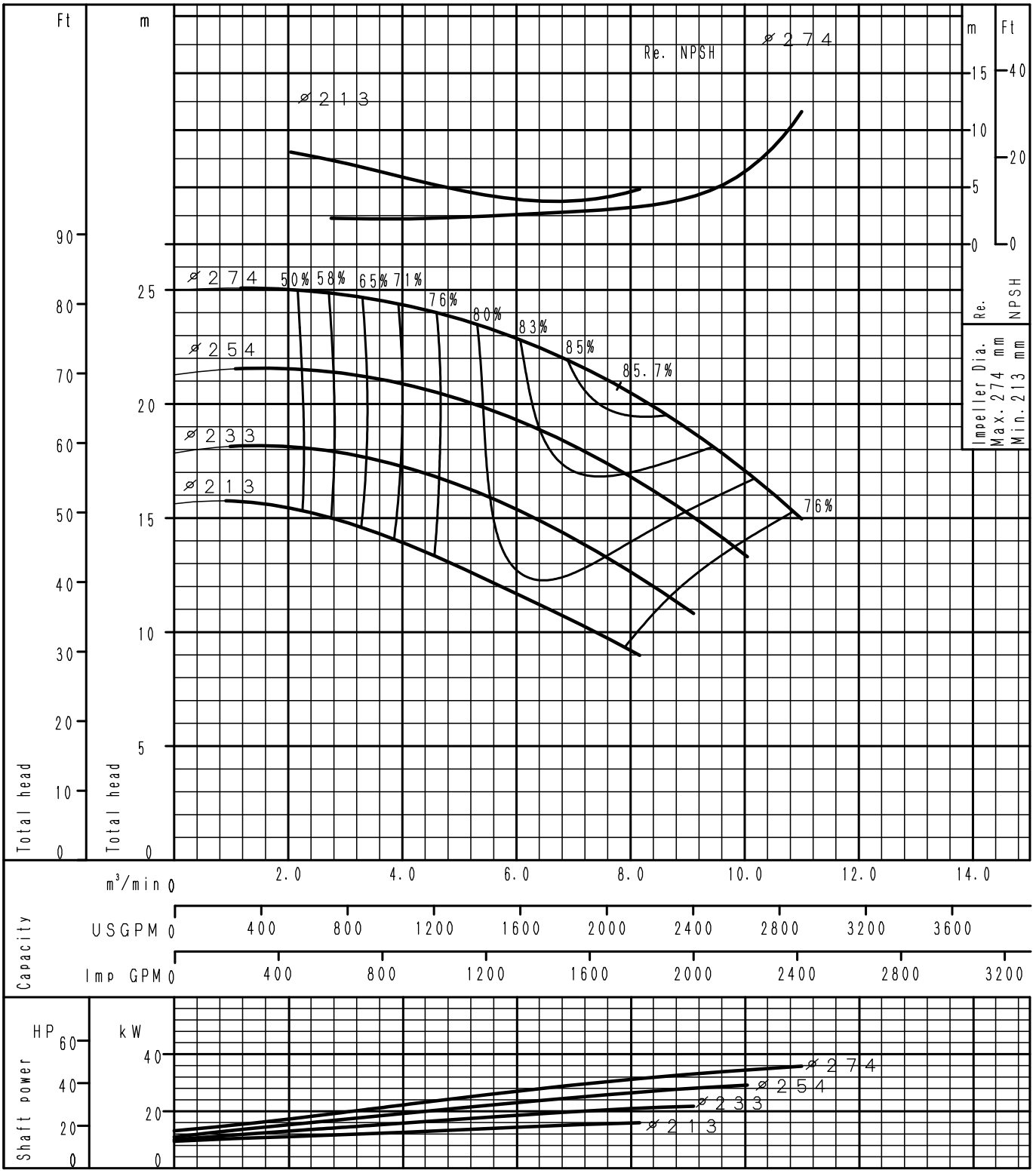
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS150-250	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632213-00

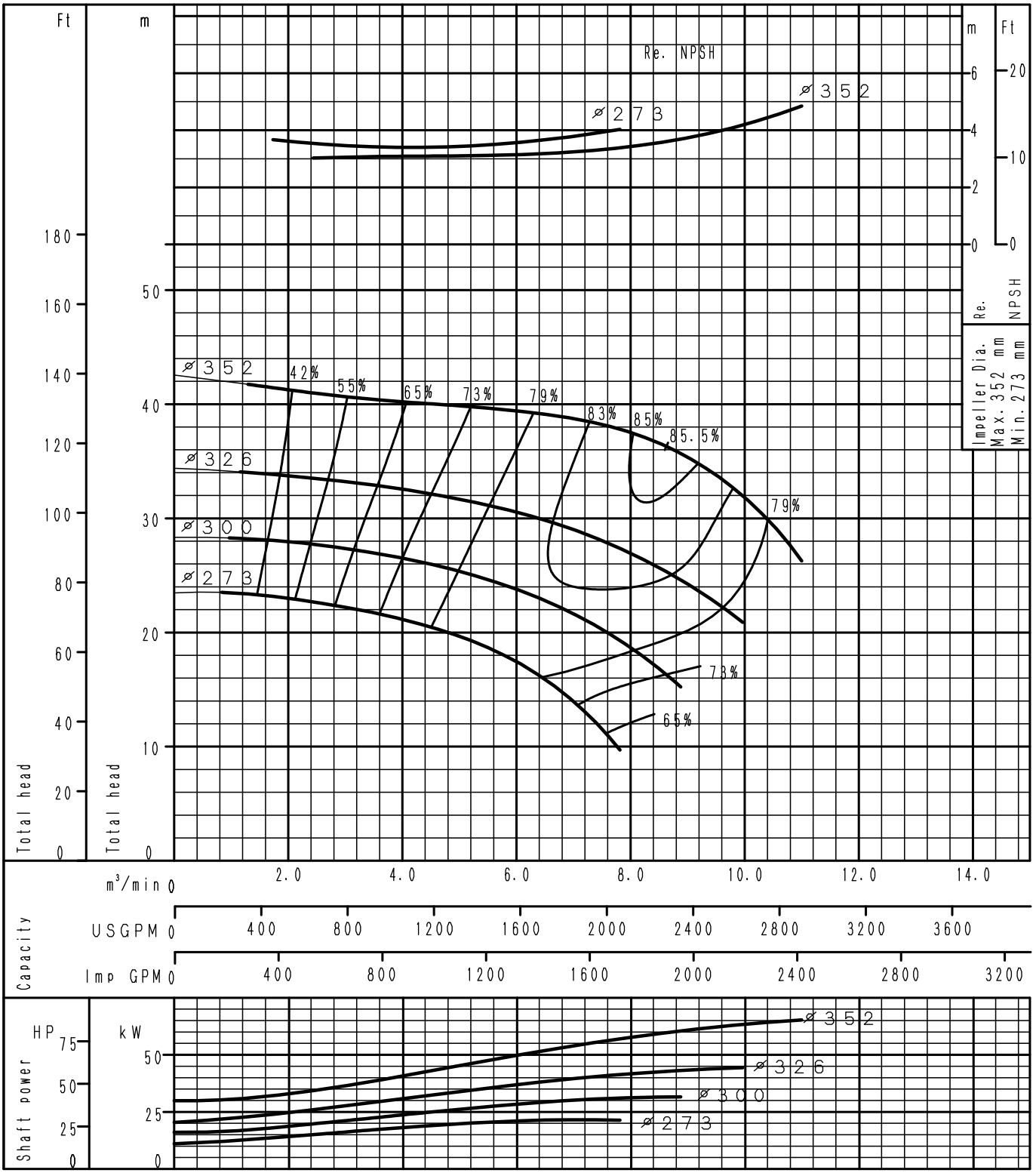
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS150-315	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

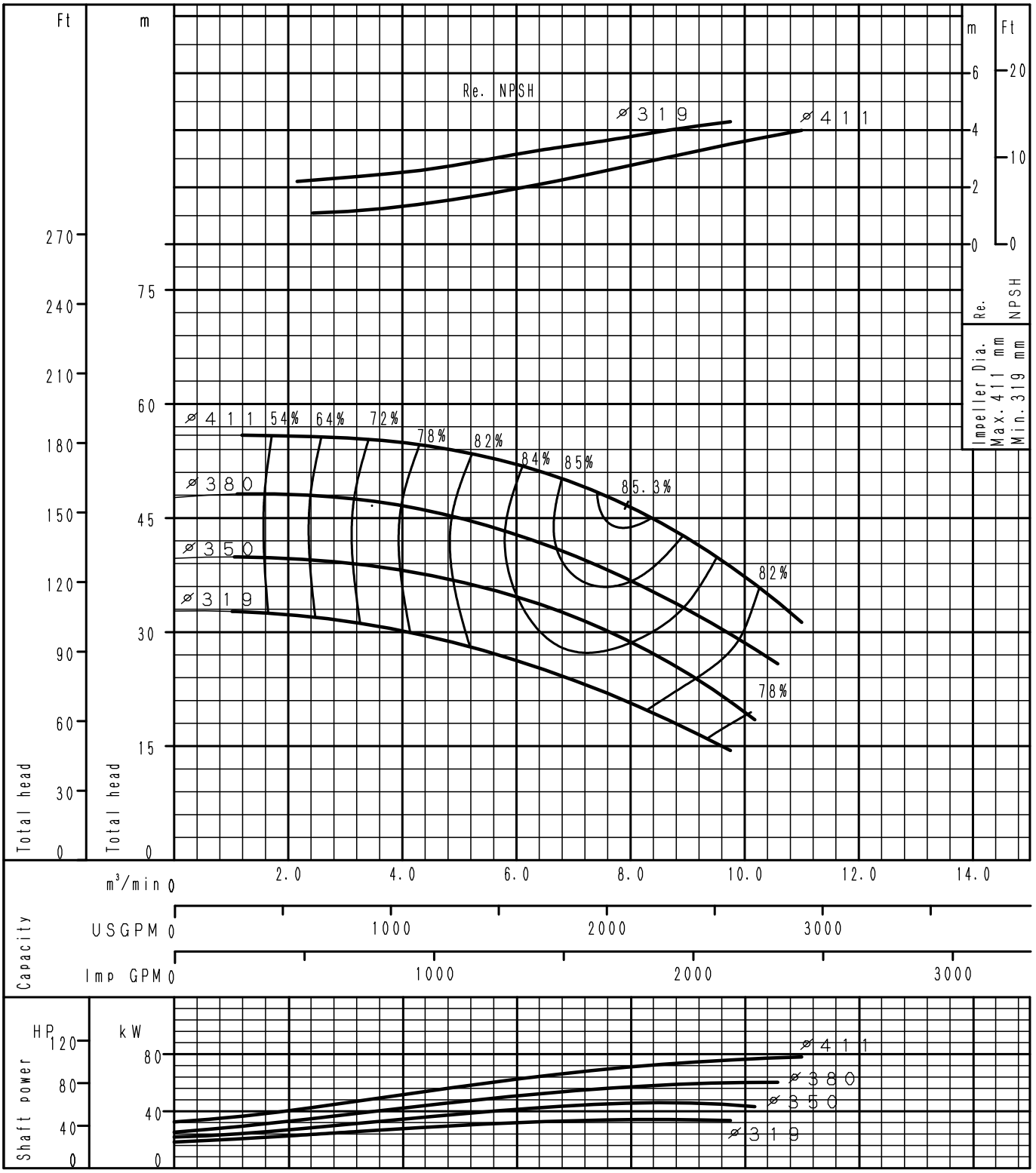
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS150-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



EBARA

EBARA CORPORATION

F8-1632215-00

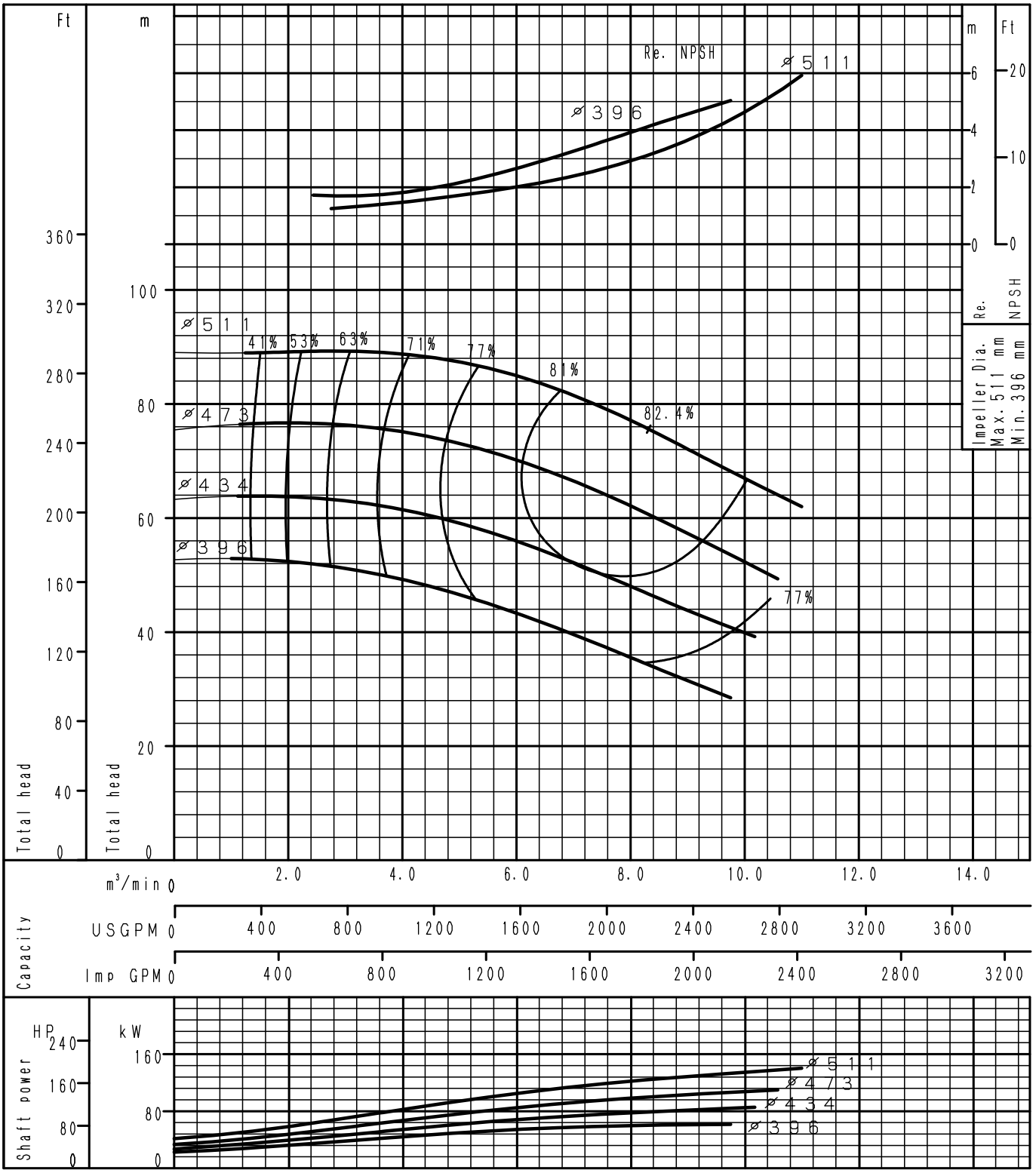
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS150-500	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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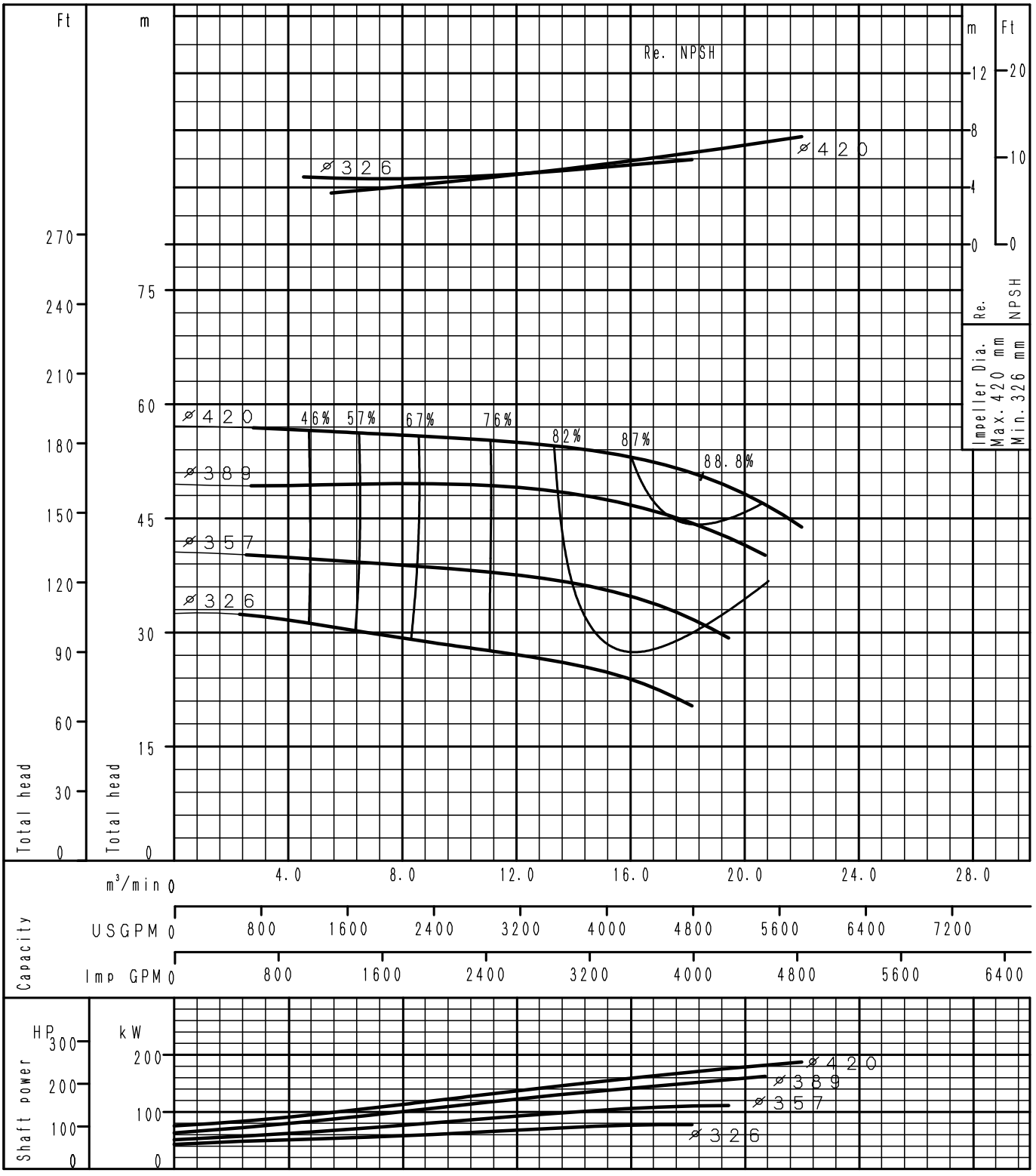
Ebara End Suction Volute Pump

Model **GS**

Performance Curve

4 Poles

GS200-400	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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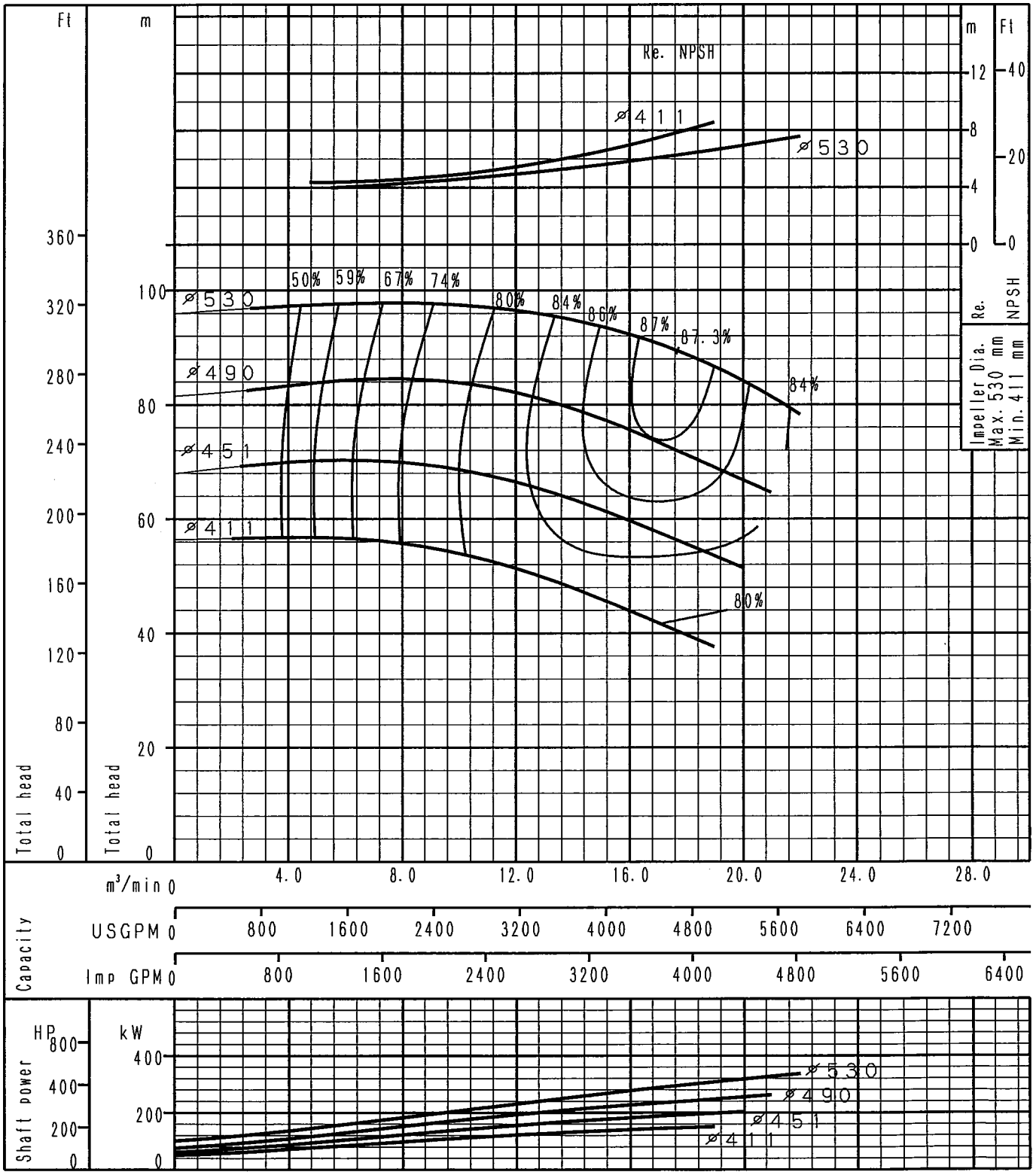
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Ebara End Suction Volute Pump

Model **GS**

Performance Curve
4 Poles

GS200-500	According to ISO testing code 9906 Grade 3B
50Hz (Speed 1450 min^{-1})	S.G. = 1.0 Vis. = 1.0 cSt



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