

LINE : **Horizontal Axially Split**

1. Application

The KSB RDL centrifugal is recommended for pumping water and of clean or cloudy liquids in the following applications water supply, fire-fighting, chemical and petrochemical industry, paper and cellulose industry and drainage, irrigation, cooling, etc.

2. Design

Horizontal single stage, axially split volute casing pump with horizontal flanges located on lower part of volute casing in opposite side.

Which provides possibility of removing shaft, impeller and bearings without disconnecting the piping.

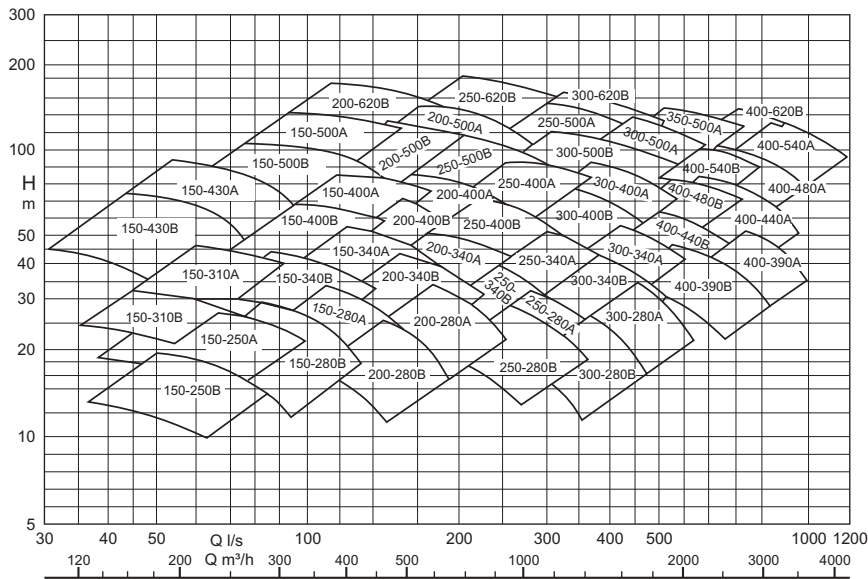
3. Designation

	KSB	RDL	250 - 500	A
Trade Mark	_____	_____	_____	_____
Model	_____	_____	_____	_____
Discharge Nozzle Diameter (mm)	_____	_____	_____	_____
Nominal Impeller Diameter (mm)	_____	_____	_____	_____
Type of Impeller	_____	_____	_____	_____

4. Operating Data

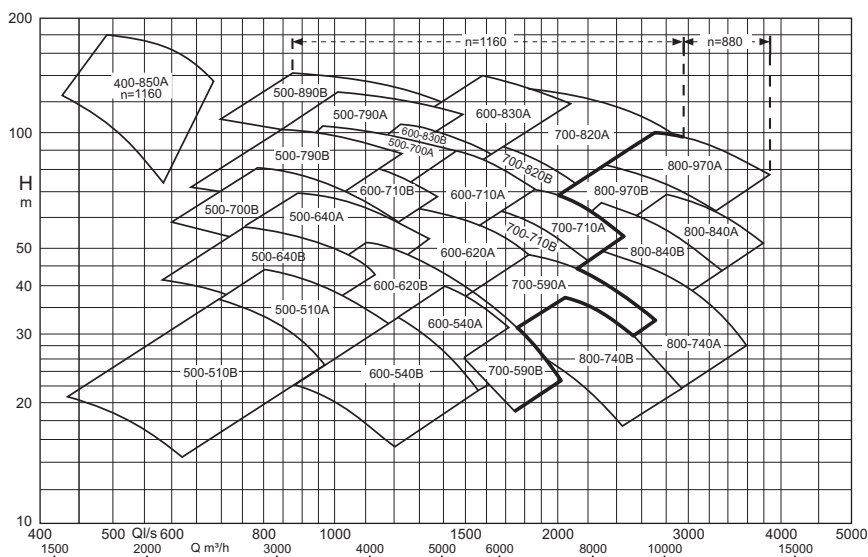
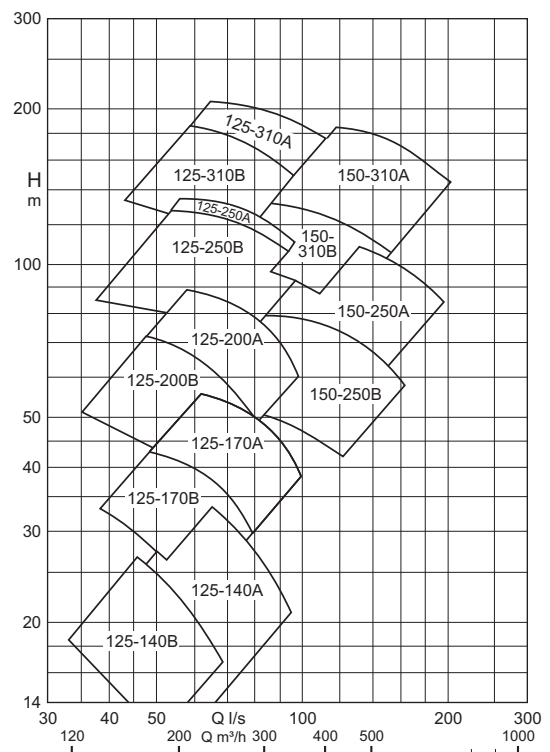
Sizes	- DN 125 up to 800
Flow	- Up to 14.000 m³/h
Heads	- Up to 200 m
Temperature	- Up to 105 °C
Speed	- Up to 3500 rpm

5. Selection Chart 60 Hz



$n = 1750 \text{ rpm}$

$n = 3500 \text{ rpm}$



$n = 1160 / 880 \text{ rpm}$

3

Table 1 - Constructive Data

Notes:

- ① - See Item 6.1.4, peripheral speed.
- ② - Pump 200-620A, 250-620A, 300-500, 300-620A and 350-620A can operate in 1750 rpm, with strengthened bearing, under Engineering Department approval.
- ③ - For oil lubrication , consult Engineering Department .
- ④ - Values valid for materials A48 CL30.
-For material: A536 60-40-18 multiply the values by 1.4.
Casted Carbon Steel multiply the values by 1.7.
Casted Chrome Steel, please consult KSB.

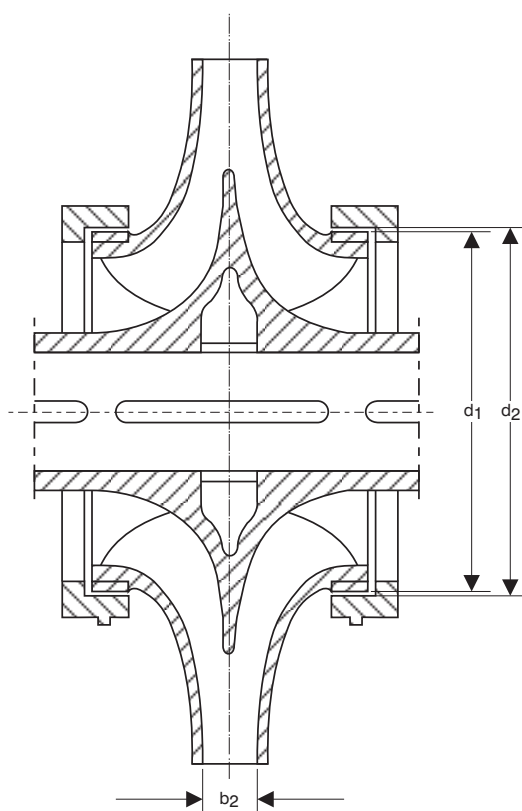


Fig. 1 - Running wear ring clearances and impeller

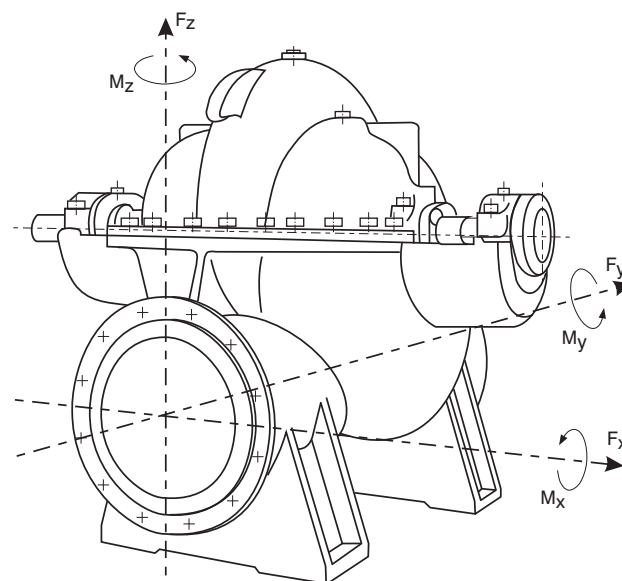


Fig. 2 - Forces and moments

6.1. Description

6.1.1. Casing

Horizontal, axially split volute casing, with replaceable wear rings. Horizontal and opposite suction and discharge nozzles in lower casing. This design allows removing of the impeller, shaft and sleeves without disassembling the piping.

6.1.2. Impeller

Radial double suction, with replaceable wear rings from size 600-540. Usually two different hydraulics, standard and interchangeable, (A and B), are available for each pump size. See table 1, for technical data and performance curves (Section. 3.).

Optionally can be supplied with replaceable wear rings.

Note: Selection of constructive impeller material must take into account the relation between NPSHr / NPSHd.

6.1.3. Shaft Sealing

The passage of the shaft through the pump is sealed by gland packing (standard) or optionally by mechanical seal. At the sealing region, the shaft is provided with protecting sleeves easily replaceable.

Lubrication and sealing are done through the liquid being pumped, except in those cases in which the fluids is inadequate for these functions. In these cases, use clean liquid, with a pressure of 1,5 up to 3,0 bar over the suction pressure.

The volume of sealing liquid from external source is obtained through the diagram according to fig. 4, and for washing the flow shall be 10 times higher than the used for sealing. For code and sealing description see fig. 3.

Code	Description	
0	<p>Sealing by pumped liquid</p> <p>0 - 1 from pump discharge</p> <p>0 - 2 from pump discharge + filter Y</p> <p>①</p>	
1	<p>1 - 1 Sealing through clean liquid from external source</p>	
9	Sealing with mechanical seal (2 seals)	

Fig. 3 - Shaft sealing

① When pumped liquid contains solid suspension.

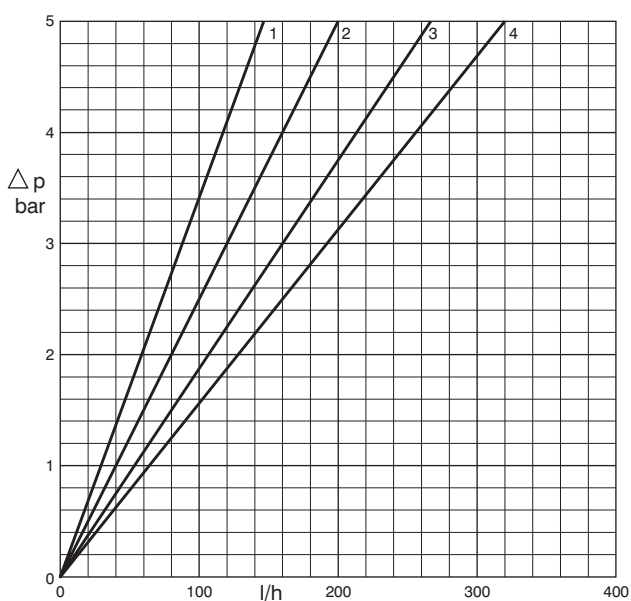


Fig. 4 - Liquid flow from external source

size	curve	size	curve	size	curve	size	curve
125-140	1	200-280	2	350-500	3	700-590	3
125-170	1	200-340	2	350-620	3	700-710	3
125-200	1	200-400	2	400-390	3	700-820	3
125-250	1	200-500	2	400-440	3	800-740	2
125-310	1	200-620	2	400-480	3	800-840	2
150-250	1	250-280	2	400-540	4	800-970	3
150-280	1	250-340	2	400-620	4		
150-310	1	250-400	2	500-510	2		
150-340	1	250-500	3	500-640	3		
150-400	1	250-620	3	500-700	3		
150-430	1	300-280	3	500-790	3		
150-500	2	300-340	3	500-890	4		
		300-400	3	600-540	2		
		300-500	3	600-620	2		
		300-620	3	600-710	3		
				600-830	3		

$$\Delta p = p - p_s \quad \begin{cases} p_s = \text{liquid pressure from external source (bar)} \\ p = \text{pressure at suction (bar)} \end{cases}$$

6.1.4. Peripheral Speed

When determining the pump speed, always verify if the appropriate impeller material in function of the peripheral speed. (Fig. 05).

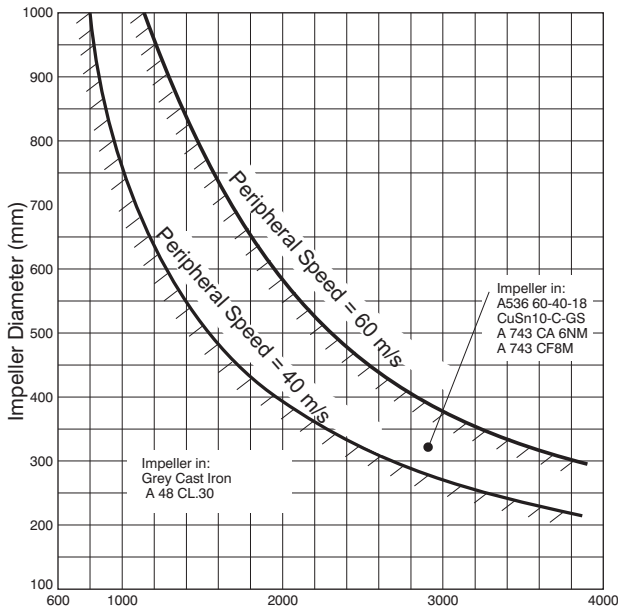


Fig. 5 - Rotation in rpm

$$V_p = \frac{\varnothing \times \pi \times n}{60}$$

Where:

V_p = Peripheral Speed (m/s)
 \varnothing = Impeller Diameter (m)
 n = Rotation (rpm)

6.3.2. Rotation Direction

KSB RDL pump can be coupled to the drive through both shaft end. The rotation can be clockwise or counter-clockwise, in function of drive position, which must be clearly defined, using as reference figures 6 and 7 below. If the shaft is assembled in one determined position, it can be reversed without special adaptation.

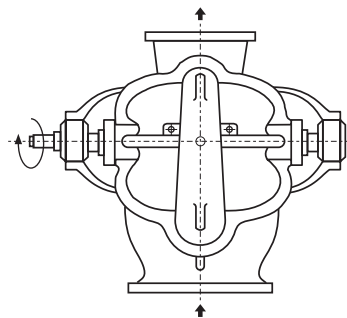


Fig. 6 - Clockwise rotation

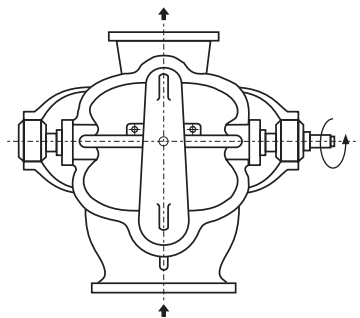


Fig. 7 - Counter-clockwise rotation

6.2. NPSH

The NPSH Curves shown on the each pump model were created considering a drop of 3% at the pump head (acc. to Hydraulic Institute).

The permissible range of continuous operation of the chosen impeller is determined by the points of intersection of the material limit curves and the NPSH. For more details see Performance Curves Booklet A1385.461 MG1.

6.3. Drive

6.3.1. Direct Drive

Direct drive by electric motor, diesel engine or turbine, through elastic coupling and with or without speed reducer.

6.3.3. Power Margin

Pump Required Power (CV)	Power Margin for Driver
Up to 30 From 31 up to 75 Above 75	Approximately 30% Approximately 15% Approximately 10%

6.4. Painting

KSB Standard.

7. Available accessories.

7.1. Driving

Driving direct, through electric motor, diesel engine or turbine.

7.2. Coupling

KSB Standard or from other manufactures.

7.3. Coupling Guard

KSB Standard.

7.4. Baseplate

Fabricated baseplate according to KSB Standard. Common baseplate for pump and drive for sizes up to 500-890 and separated baseplate for pump, for bigger sizes (Vide Figs. 8 and 9).

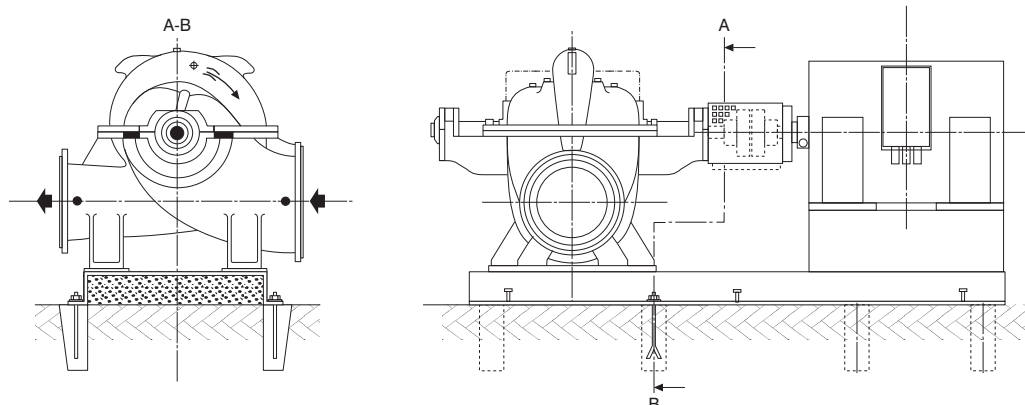


Fig. 8 - Common baseplate for pump and motor

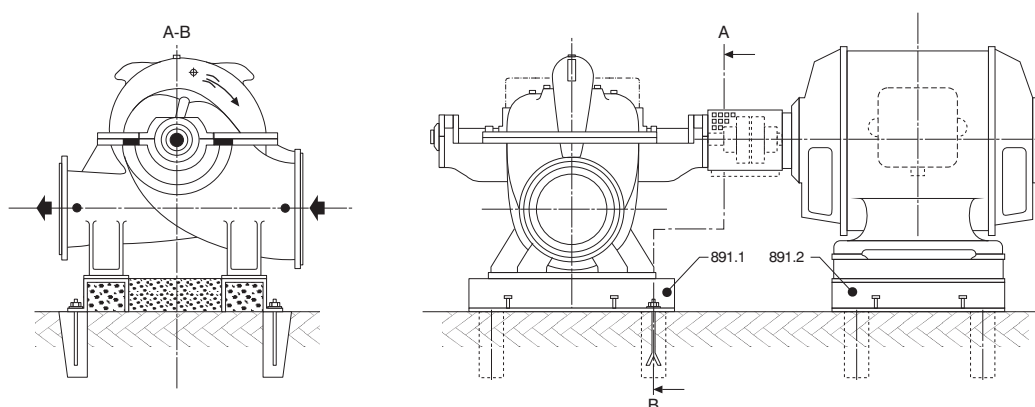


Fig. 9 - Separated baseplate for pump and drive.

8. Sectional Drawings

8.1. Size 125 up to 300

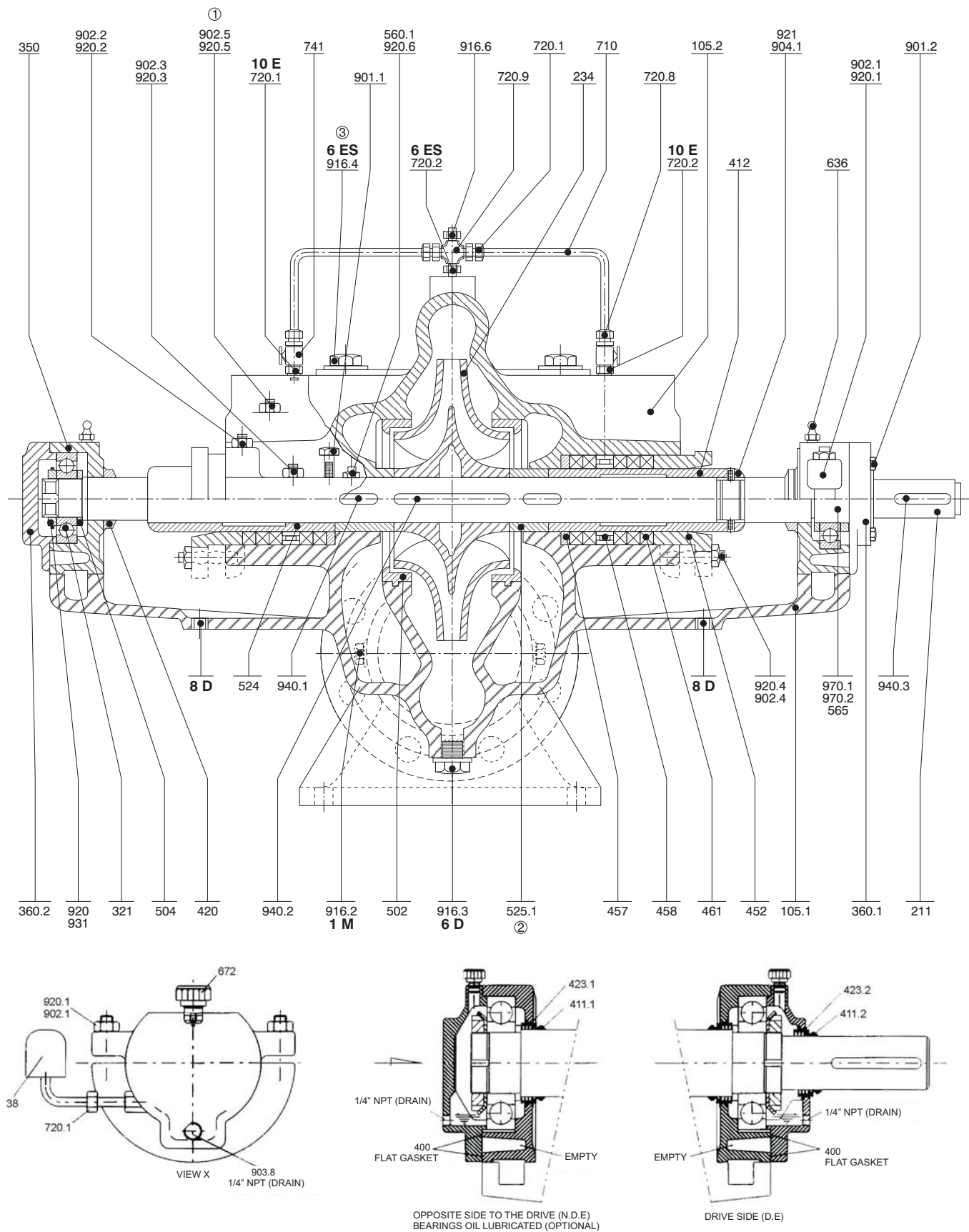


Fig. 10

- Note:**
- ① - Not used in sizes 125-250/310, 150-430, 200-340, 250-340/500/620, 300-340/400.
 - ② - Not used in sizes 200-500/620, 250-340/400.
 - ③ - Only for model 300-400.

8.2. Sizes 350 up to 500

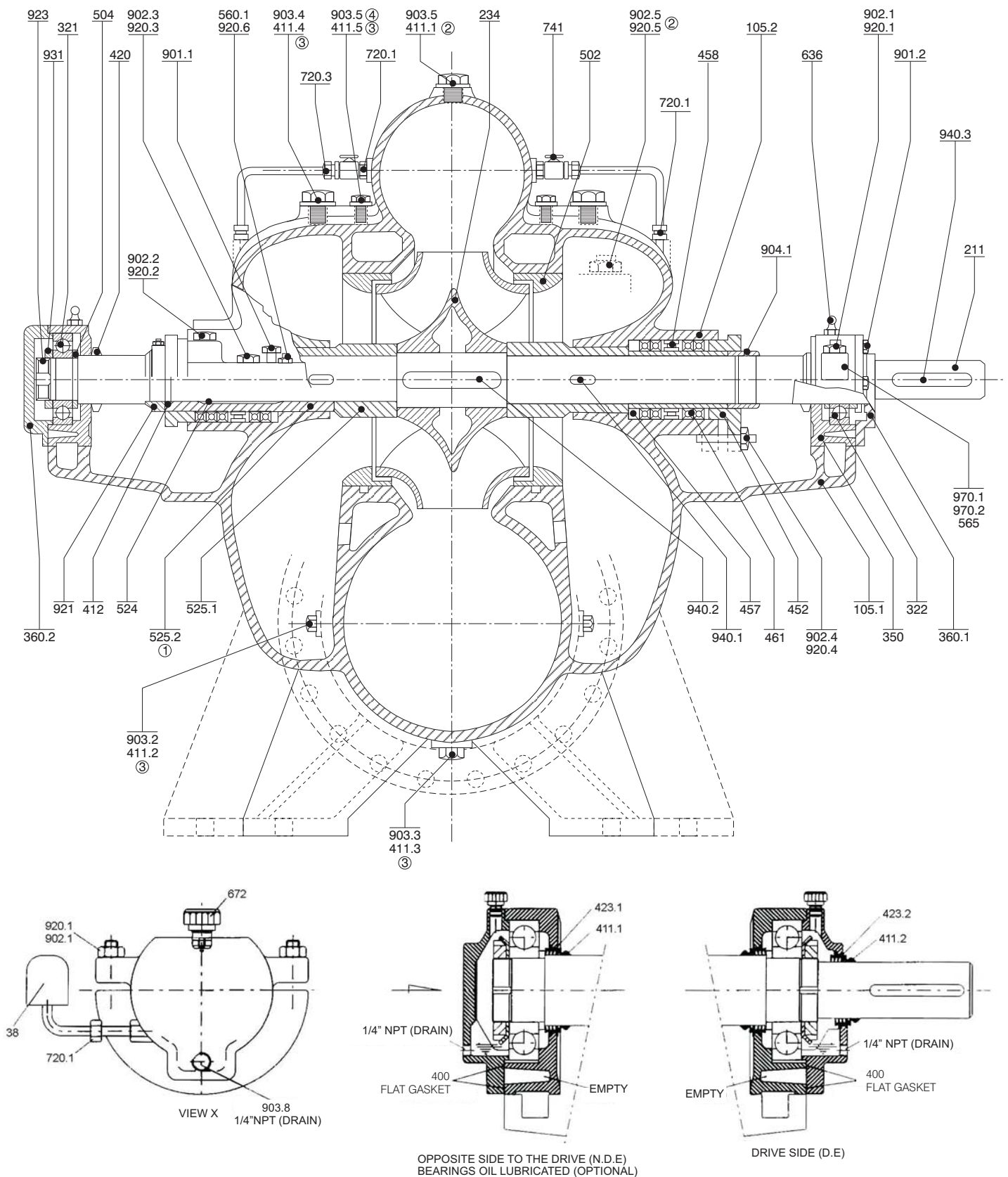


Fig. 11

- Notas:**
- ① - Not used in sizes 400-390, 500-510 - 500-640 and 500-790.
 - ② - Only in sizes 400-480 and 400-620.
 - ③ - Not used for FLANGE ANSI.
 - ④ - Not used in size 400-480.

Fig. 12

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9. Part List

Denomination	Part nº	Qty.	Combination of Material			
			00	01	02	03
Lower Casing	105.1	1	A 48 CL 30	A 48 CL 30	A536 GR60.40.18	A536 GR60.40.18
Upper Casing	105.2	1	A 48 CL 35	A 48 CL 35	A536 GR60.40.18	A536 GR60.40.18
Shaft	211	1	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Double Suction Impeller	234	1	A 48 CL 30	A 743 CF 8M	A 48 CL 30	A 743 CF 8M
Radial Ball Bearing [1]	321	1	Steel	Steel	Aço	Aço
Radial Roller Bearing [2]	322	1	Steel	Aço	Aço	Aço
Bearing Bracket [3]	330	2	A 48 CL 30	A 48 CL 30	A 48 CL 30	A 48 CL 30
Bearing Housing	350	2	A 48 CL 30	A 48 CL 30	A 48 CL 30	A 48 CL 30
Bearing Cover(L.A.)	360.1	1	A 48 CL 30	A 48 CL 30	A 48 CL 30	A 48 CL 30
Bearing Cover (L.B.)	360.2	1	A 48 CL 30	A 48 CL 30	A 48 CL 30	A 48 CL 30
Flat Gasket [13]	400	2	DPAF	DPAF	DPAF	DPAF
Sealing Ring [4]	411.1	1	Copper	Copper	Copper	Copper
Oring "O" [13]	411.1	2	NB70	NB70	NB70	NB70
Oring "O" [13]	411.2	1	NB70	NB70	NB70	NB70
Oring [4]	411.2	4	Copper	Copper	Copper	Copper
Oring [4]	411.3/4/5	2	Copper	Copper	Copper	Copper
Oring "O"	412	2	NB 70	NB 70	NB 70	NB 70
Shaft Seal Ring	420	2	NB 50	NB 50	NB 50	NB 50
Labyrinth Ring [13]	423.1	2	Steel	Steel	Steel	Steel
Labyrinth Ring [13]	423.2	1	Steel	Steel	Steel	Steel
Gland Cover	452	2	A 48 CL 30	A 48 CL 30	A 48 CL 30	A 48 CL 30
Neck Ring	457	2	TM 23	TM 23	TM 23	TM 23
Lantern Ring	458	2	TM 23	TM 23	TM 23	TM 23
Gland Packing	461	-	Acrylic Fiber + PTFE	Acrylic Fiber + PTFE	Acrylic Fiber + PTFE	Acrylic Fiber + PTFE
Casing Wear Ring	502	2	Cu Sn 10-C-GS	A743 CA 6NM	Cu Sn 10-C-GS	Cu Sn 10-C-GS
Impeller Wear Ring [6]	503	2	Cu Sn 10-C-GS	A 743 CF 8M	Cu Sn 10-C-GS	Cu Sn 10-C-GS
Spacer Ring	504	2	SAE 1035	SAE 1035	SAE 1035	SAE 1035
Shaft Protecting Sleeve	524	2	A 48 CL 30	AISI 420	A 48 CL 30	AISI 420
Spacer Sleeve [7]	525.1	2	A 48 CL 30	AISI 420	A 48 CL 30	AISI 420
Spacer Sleeve [8]	525.2	2	A 48 CL 30	AISI 420	A 48 CL 30	AISI 420
Conical Bolt	560.1	2	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Conical Bolt [9]	560.2	4	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Rivet	565	6	AISI 304	AISI 304	AISI 304	AISI 304
Grease Nipple	636	2	Steel	Steel	Steel	Steel
Constant Level Oiler [13]	638	2	Steel / Glass	Steel / Glass	Steel / Glass	Steel / Glass
Vent Plug [13]	672	2	Zamac	Zamac	Zamac	Zamac
Drain	710	2	Steel	Steel	Steel	Steel
Connection	720.1	2	Steel	Steel	Steel	Steel
Connection [13]	720.2	2	Steel	Steel	Steel	Steel
Connection	720.3	2	Steel	Steel	Steel	Steel
Valve	741	2	Bronze	Bronze	Bronze	Bronze
Hexagon Head Bolt	901.1	2	SAE 1020/5.6	SAE 1020/5.6	SAE 1020/5.6	SAE 1020/5.6
Hexagon Head Bolt	901.2	8	SAE 1020/5.6	SAE 1020/5.6	SAE 1020/5.6	SAE 1020/5.6
Stud	902.1/2	4	SAE 1020	SAE 1020	SAE 1020	SAE 1020
Stud	902.3	[10]	SAE 1020	SAE 1020	SAE 1020	SAE 1020
Stud	902.4	4	SAE 1020	SAE 1020	SAE 1020	SAE 1020
Stud [12]	902.5	4	SAE 1020	SAE 1020	SAE 1020	SAE 1020
Stud [9]	902.8	16	SAE 1020	SAE 1020	SAE 1020	SAE 1020
Threaded Plug	903.1	1	Steel	Steel	Steel	Steel
Threaded Plug	903.2	4	Steel	Steel	Steel	Steel
Threaded Plug	903.3/4	2	Steel	Steel	Steel	Steel
Threaded Plug [12]	903.5	2	Steel	Steel	Steel	Steel
Threaded Plug [5]	903.6	2	Steel	Steel	Steel	Steel
Threaded Plug [13]	903.8	2	Steel	Steel	Steel	Steel
Threaded Pin	904.1	8	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Threaded Pin	904.2	6	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Nut	920.1/2/4	4	SAE 1020/6	SAE 1020/6	SAE 1020/6	SAE 1020/6
Nut [11]	920.3	[10]	SAE 1020/6	SAE 1020/6	SAE 1020/6	SAE 1020/6
Nut	920.5	4	SAE 1020/6	SAE 1020/6	SAE 1020/6	SAE 1020/6
Nut [9]	920.6	2	SAE 1020/6	SAE 1020/6	SAE 1020/6	SAE 1020/6
Nut [9]	920.7	4	SAE 1020/6	SAE 1020/6	SAE 1020/6	SAE 1020/6
Nut	920.8	16	SAE 1020/6	SAE 1020/6	SAE 1020/6	SAE 1020/6
Nut	921	2	TM 23	TM 23	TM 23	TM 23
Bearing Nut	923	2	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Lock Washer	931	2	Steel	Steel	Steel	Steel
Lock Washer	940.1	2	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Key	940.2/3	1	SAE 1045	SAE 1045	SAE 1045	SAE 1045
Plate	970.1	1	AISI 304	AISI 304	AISI 304	AISI 304
Plate	970.2	1	AISI 304	AISI 304	AISI 304	AISI 304

Remarks:

[1] Quantity = 2 for pumps sizes 125 up to 300.

[2] Not applicable for pumps sizes 125 up to 300.

[3] Applicable only for pumps sizes 600 up to 900.

[4] Not applicable for pumps with flange ANSI Standard.

[5] Applicable only for pump size 300-400

[6] Applicable for pump size from 600-540.

[7] Not applicable for pumps sizes:

200-500, 200-620, 250-340 e 250-400.

[8] For pumps sizes 125 up to 300 - Not applicable

For pumps sizes 350 up to 500 - Only pumps sizes:

400-390, 500-510, 500-640 and 500-790.

For pumps sizes 600 up to 900.

Not applicable for pump size 800-840.

[9] Not applicable for pumps sizes 600 up to 900.

[10] Variable quantity according to pump size.

[11] For pumps sizes 125 up to 300 - not applicable for pumps sizes:

125-250, 125-310, 150-430, 200-340, 250-340, 250-500,

250-620, 300-340, 300-400.

For pumps sizes 400 up to 500 - Only for pumps sizes 400-800

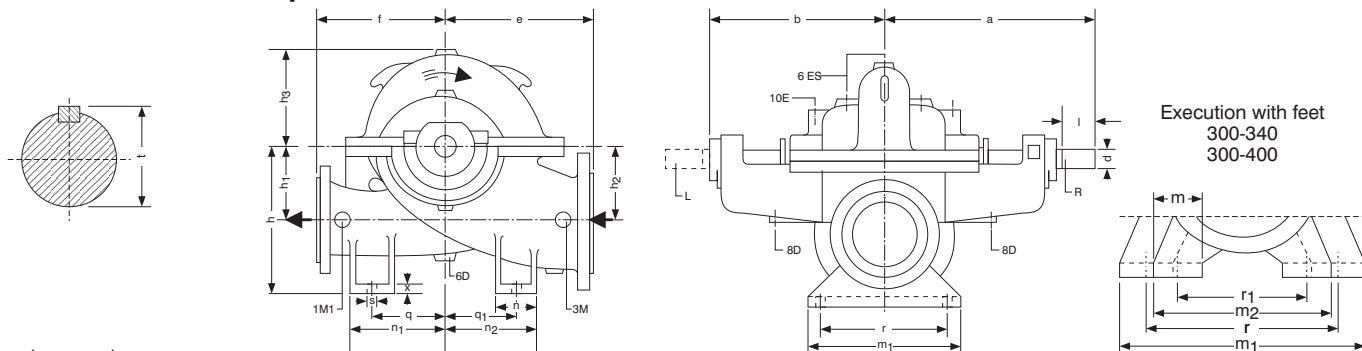
and 400-620

[12] Not applicable for pump size 400-480.

[13] Applicable for pump oil lubricated.

10. Dimensions

10.1. Sizes 125-140 up to 300-620



Dimensions mm *

Size	Flanges		Pumps dimensions							
	DN1 (suction)	DN2 (pressure)	a	b	e	f	h	h1	h2	h3
125-140	150	125	465	380	300	300	300	150	150	190
125-170	150	125	465	380	300	300	300	150	150	175
125-200	150	125	465	380	300	300	300	150	150	175
125-250	150	125	465	380	300	300	300	150	150	200
125-310	150	125	465	380	325	325	300	150	150	225
150-250	200	150	510	410	350	350	400	200	200	230
150-280	200	150	510	410	350	350	400	200	200	245
150-310	200	150	510	410	375	375	400	200	200	260
150-340	200	150	510	410	400	400	400	200	200	265
150-400	200	150	510	410	400	400	400	200	200	280
150-430	200	150	465	380	400	400	350	200	200	280
150-500	200	150	560	450	450	450	400	200	200	330
200-280	250	200	560	450	400	400	400	200	200	275
200-340	250	200	560	450	400	400	450	240	240	300
200-400	250	200	560	450	450	450	450	240	240	300
200-500	250	200	655	530	450	450	450	240	240	370
200-620	250	200	655	530	550	550	500	300	300	480
250-280	300	250	655	530	500	500	550	300	300	360
250-340	300	250	655	530	500	500	550	300	300	350
250-400	300	250	655	530	550	550	550	300	300	350
250-500	300	250	720	575	550	550	550	300	300	400
250-620	300	250	720	575	600	600	600	300	300	510
300-280	350	300	720	575	550	550	580	300	300	385
300-340	350	300	720	575	650	500	640	330	330	400
300-400	350	300	720	575	550	650	600	325	325	385
300-500	350	300	825	655	650	650	650	350	350	430
300-620	350	300	825	655	750	750	700	400	400	550

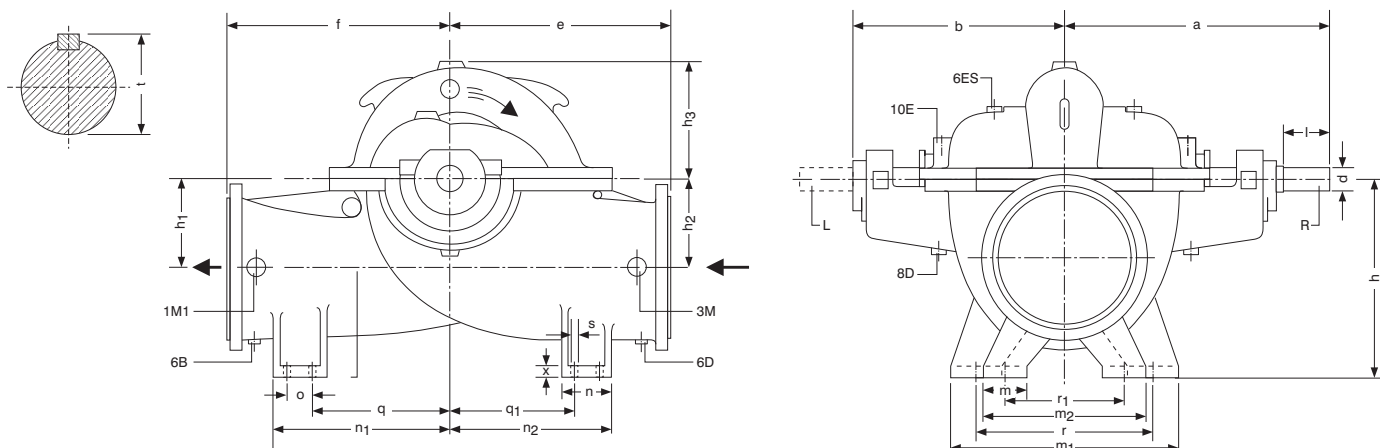
* Subject to alteration without previous notice

		Up to 150-500	From 200-280			Up to 150-500	From 200-280
1M1	Manometer	R 1/2"	R 1/2"	8D	Drain	R 1/2"	R 3/4"
3M	Manovacuumeter	R 1/2"	R 1/2"	10E	External sealing inlet	R 1/2"	R 1/2"
6D	Drain	R 1/2"	R 3/4"	6ES	Vent	R 3/4"	R 3/4"

R = Drive to the right (clockwise)
L = Drive to the left (counter-clockwise)
(Seen from drive side)

Sizes	Feet dimensions												Shaft end		
	m	m1	m2	n	n1	n2	q	q1	r	r1	s	x	dh6	l	t
125-140	---	300	---	80	200	200	160	160	250	---	22	18	35	85	38
125-170	---	300	---	80	200	200	160	160	250	---	22	18	35	85	38
125-200	---	300	---	80	200	200	160	160	250	---	22	18	35	85	38
125-250	---	300	---	80	200	200	160	160	250	---	22	16	35	85	38
125-310	---	300	---	80	200	200	160	160	250	---	22	18	35	85	38
150-250	---	360	---	90	250	250	205	205	310	---	22	18	40	100	43
150-280	---	360	---	90	250	250	205	205	310	---	22	18	40	100	43
150-310	---	360	---	90	250	250	205	205	310	---	22	18	40	100	43
150-340	---	360	---	90	250	250	205	205	310	---	22	18	40	100	43
150-400	---	360	---	90	250	250	205	205	310	---	22	18	40	100	43
150-430	---	300	---	100	300	300	250	250	250	---	22	18	35	85	38
150-500	---	420	---	100	300	300	250	250	370	---	22	18	50	110	53,5
200-280	---	420	---	100	300	300	250	250	370	---	22	22	50	110	53,5
200-340	---	420	---	100	300	300	250	250	370	---	22	22	50	110	53,5
200-400	---	420	---	100	300	300	250	250	370	---	22	22	60	125	64
200-500	---	420	---	100	300	300	250	250	370	---	22	22	60	125	64
200-620	---	520	---	100	375	375	325	325	460	---	26	24	60	125	64
250-280	---	450	---	100	325	325	275	275	400	---	26	24	50	125	---
250-340	---	450	---	100	325	325	275	275	400	---	26	24	60	125	64
250-400	---	450	---	100	325	325	275	275	400	---	26	24	60	125	64
250-500	---	450	---	100	325	325	275	275	400	---	26	24	70	145	74,5
250-620	---	520	---	100	375	375	325	325	460	---	26	24	70	145	74,5
300-280	---	550	---	120	400	400	340	340	480	---	26	24	70	145	---
300-340	150	680	540	180	350	450	260	360	580	440	33	30	70	145	74,5
300-400	160	740	560	200	450	370	350	270	620	440	26	30	70	145	74,5
300-500	---	550	---	200	430	430	350	350	450	---	33	30	80	165	85
300-620	---	600	---	200	540	540	450	450	500	---	33	30	80	165	85

10.2.Sizes 350-500 up to 800-970



Dimensions mm *

Size	Suction Flange DN1	Pressure Flange DN2	Pumps dimensions								
			a	b	e	f	h	h1	h2	h3	m
350-500	400	350	910	710	690	620	730	415	415	470	140
350-620	400	350	910	710	740	670	775	460	460	515	140
400-390	500	400	860	680	680	460	730	370	370	450	150
400-440	500	400	905	685	700	650	750	390	390	460	150
400-480	500	400	905	700	750	600	770	480	430	520	200
400-540	500	400	940	720	750	700	820	460	400	500	200
400-620	500	400	955	740	800	700	850	490	490	530	200
400-850	500	400	1150	880	890	890	1000	483	483	780	200
500-510	600	500	1025	820	850	550	900	475	475	560	200
500-640	600	500	1115	900	850	800	920	495	495	600	200
500-700	600	500	1085	855	1050	850	1000	620	550	620	200
500-790	600	500	1175	900	1000	900	1050	600	600	660	200
500-890	600	500	1210	920	1050	950	1100	650	650	710	200
600-540	700	600	1080	885	1100	900	1100	610	610	750	220
600-620	700	600	1060	840	1000	1000	1050	545	545	650	220
600-710	700	600	1160	930	1000	1100	1050	545	545	650	220
600-830	700	600	1275	1000	1100	1200	1100	580	580	760	220
700-590	800	700	1300	1090	1300	800	1150	600	600	720	250
700-710	800	700	1360	1130	1200	1150	1170	620	620	750	250
700-820	800	700	1440	1160	1250	1250	1200	650	650	850	250
800-740	900	800	1410	1180	1400	950	1380	770	770	920	280
800-840	900	800	1500	1180	1400	1125	1360	770	770	900	280
800-970	900	800	1580	1270	1400	1300	1370	760	760	850	280

*) Subject to alteration without previous notice

		Up to 400-620	From 500-510	From 700-590			From 400-620	From 500-510	From 700-590
1M1	Manometer	R 1/2"	R 1/2"	R 1/2"	8D	Drain	R 3/4"	R 1"	R 1"
3M	Manovacuumeter	R 1/2"	R 1/2"	R 1/2"	10E	External sealing inlet	R 1/2"	R 1/2"	R 1/2"
6D	Drain	R 3/4"	R 1"	R 1 1/2"	6ES	Vent	R 3/4"	R 1"	R 1 1/2"

R = Drive to the right (clockwise)
L = Drive to the left (counter-clockwise)
(Seen from drive side)

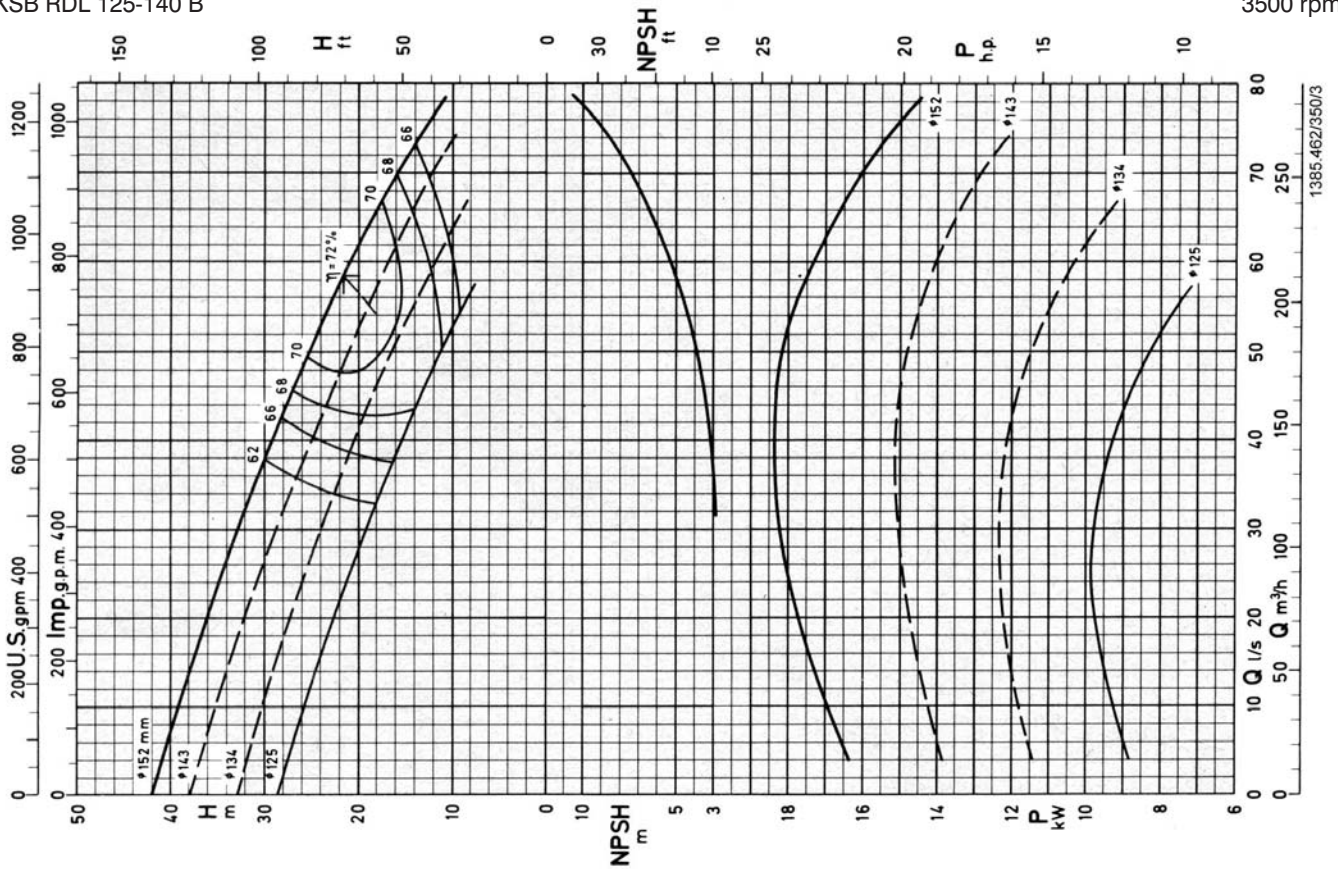
Size	Feet dimensions												Shaft end		
	m1	m2	n	n1	n2	o	q	q1	r	r1	s	x	d	l	t
350-500	830	570	210	490	550	---	385	445	710	450	33	30	95	190	---
350-620	830	570	210	490	550	---	385	445	710	450	33	30	95	190	---
400-390	900	600	180	320	420	---	230	330	800	500	33	30	65	160	69
400-440	900	600	180	480	480	---	390	390	800	500	33	30	75	180	79,5
400-480	950	700	250	475	575	---	350	450	750	500	36	35	75	180	79,5
400-540	950	700	250	550	600	---	425	475	800	550	33	35	85	200	90
400-620	950	700	250	550	650	---	425	525	800	550	33	35	95	200	100
400-850	800	---	300	700	700	150	475	475	---	---	33	35	115	250	122
500-510	1100	800	300	400	550	150	175	325	940	640	33	35	75	180	79,5
500-640	1100	800	300	600	600	150	375	375	940	640	33	35	95	210	100
500-700	1200	800	300	650	750	150	425	525	1000	600	33	35	105	230	---
500-790	1200	825	300	700	800	150	475	575	1020	655	33	35	115	250	122
500-890	1100	850	300	750	850	150	525	625	940	680	33	35	135	290	---
600-540	1100	800	300	700	800	150	475	575	850	550	33	35	75	190	79,5
600-620	1100	800	300	800	800	150	575	575	820	550	36	40	85	225	---
600-710	1200	900	300	800	800	150	575	575	1020	720	36	40	105	230	---
600-830	1200	900	300	900	800	150	575	575	1020	720	36	40	115	250	---
700-590	1200	900	350	600	900	200	325	625	1000	700	36	40	95	210	---
700-710	1200	900	350	900	900	200	625	625	1000	700	36	40	105	230	---
700-820	1200	900	350	950	950	200	675	675	1000	700	36	40	125	305	---
800-740	1300	1000	400	750	900	250	425	575	1100	800	36	40	105	230	---
800-840	1300	1000	400	900	950	250	575	625	1100	800	36	40	115	310	122
800-970	1300	1000	400	1000	1000	250	675	675	1100	800	36	40	135	310	---

11. Performance Curves

For curves of NPSH according to impeller material, see Performance Curves A1385.461 M

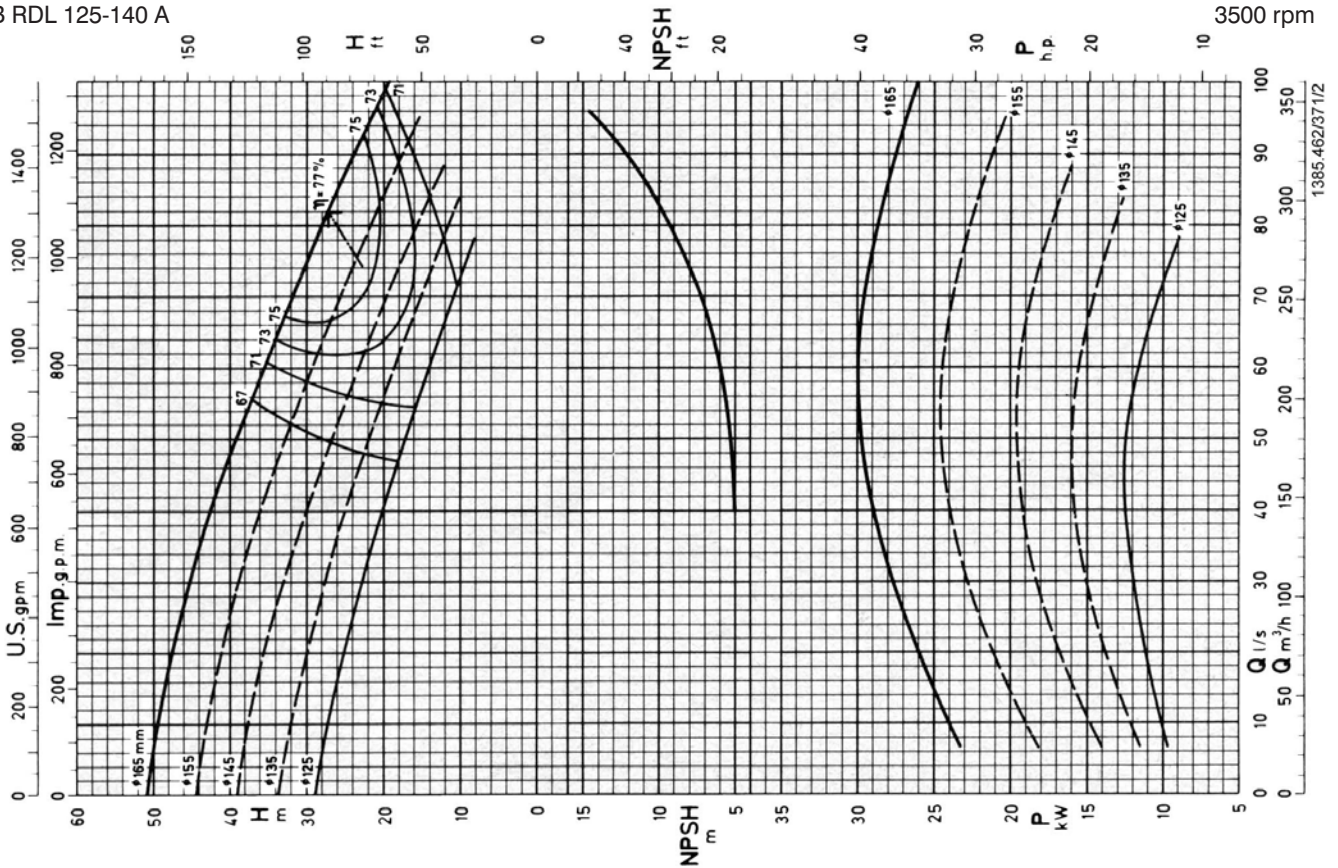
KSB RDL 125-140 B

3500 rpm



KSB RDL 125-140 A

3500 rpm

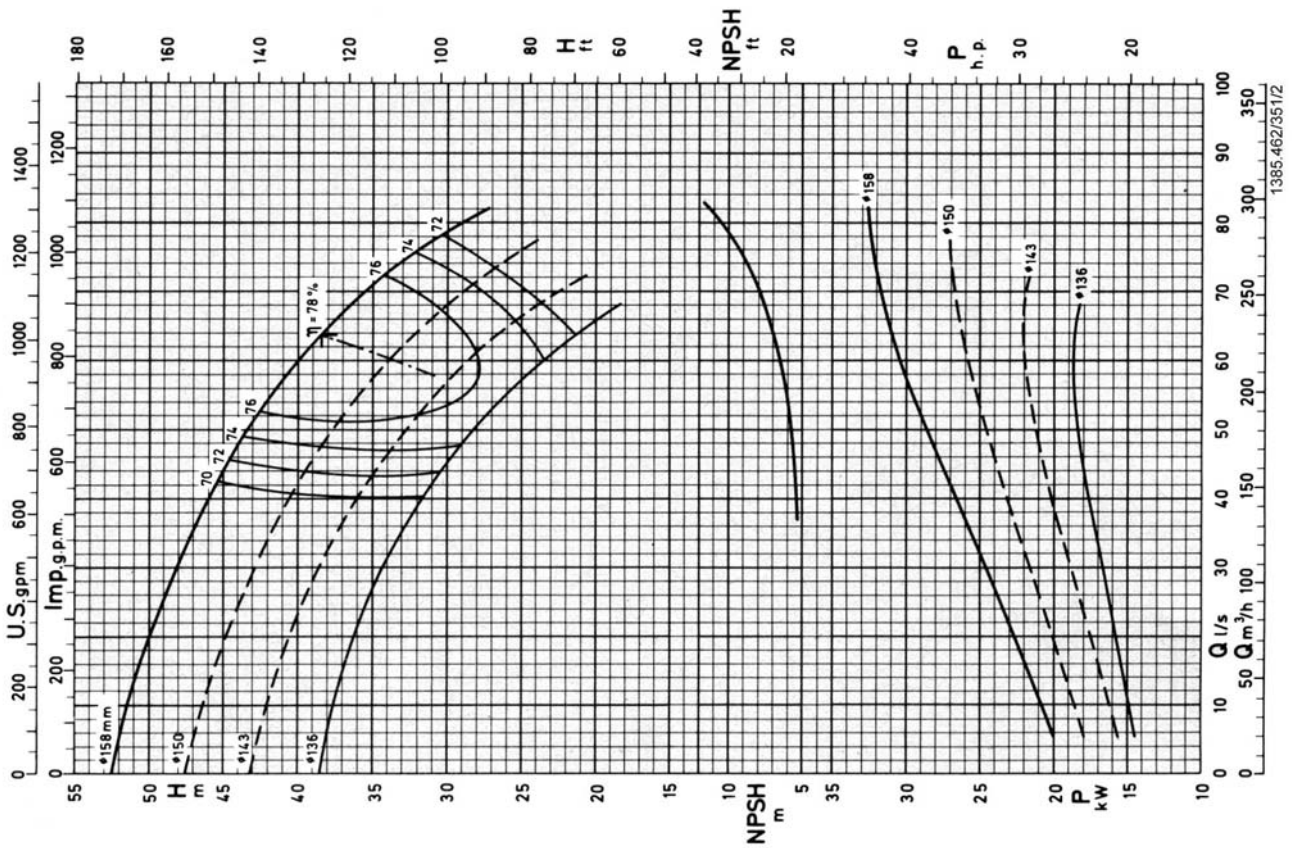


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

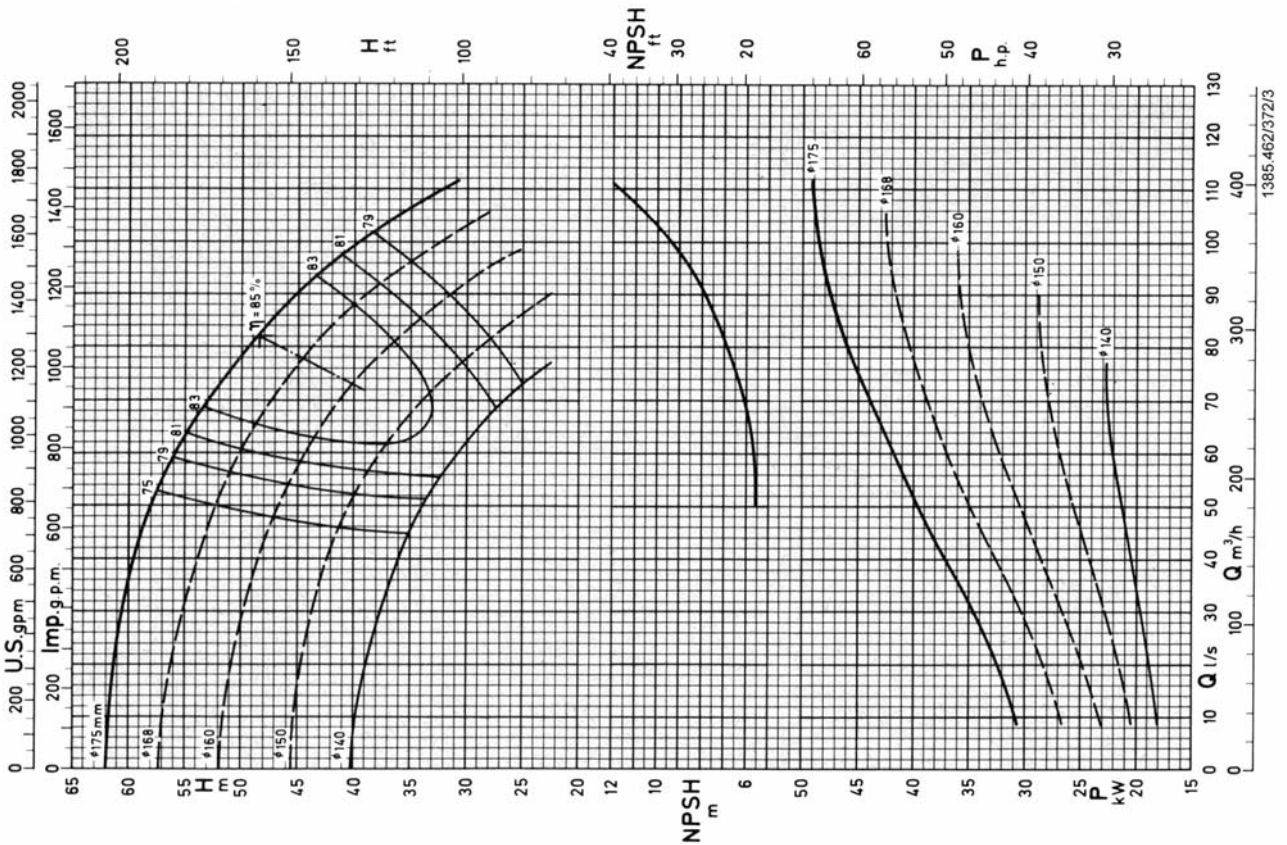
KSB RDL 125-170 B

3500 rpm



KSB RDL 125-170 A

3500 rpm

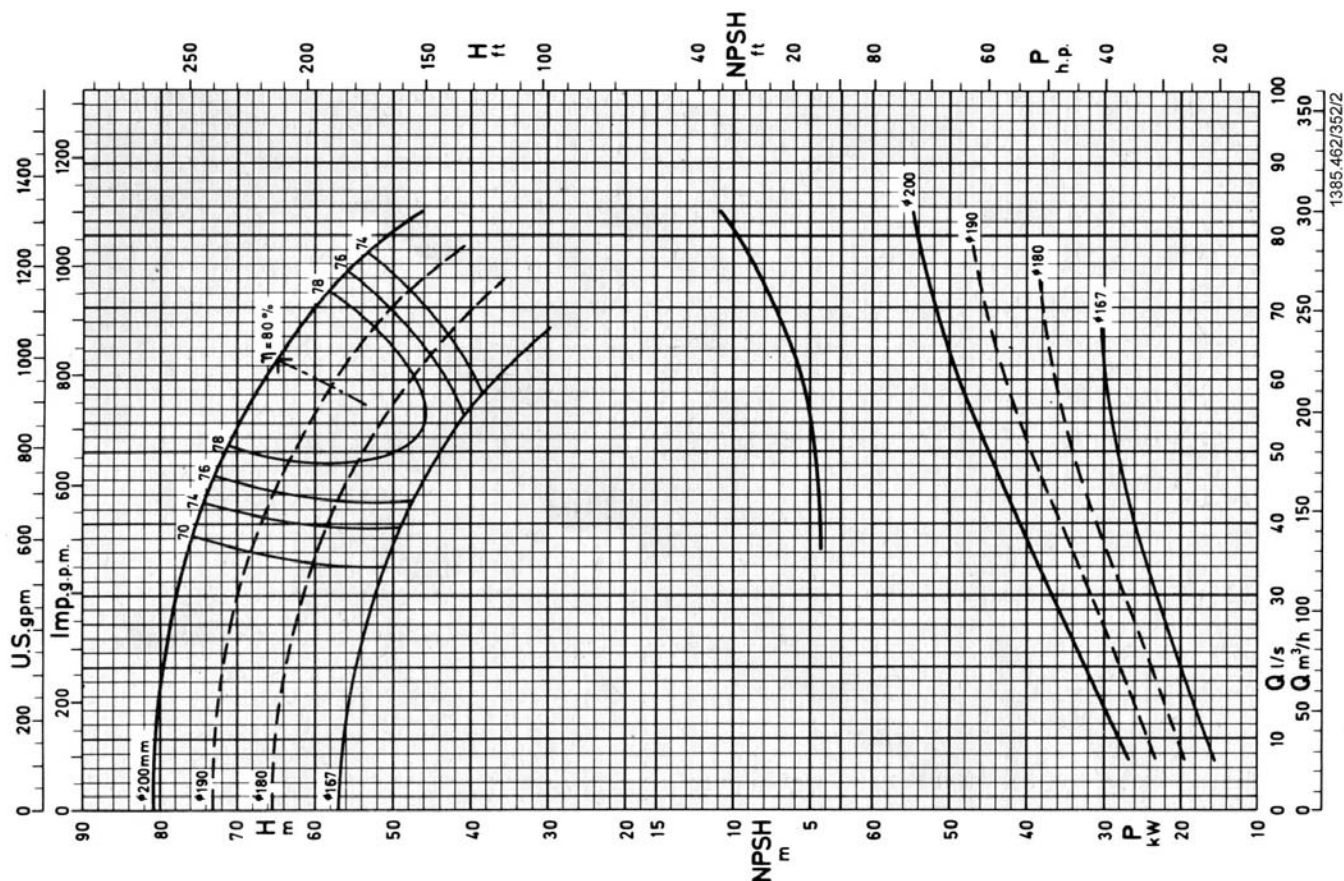


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

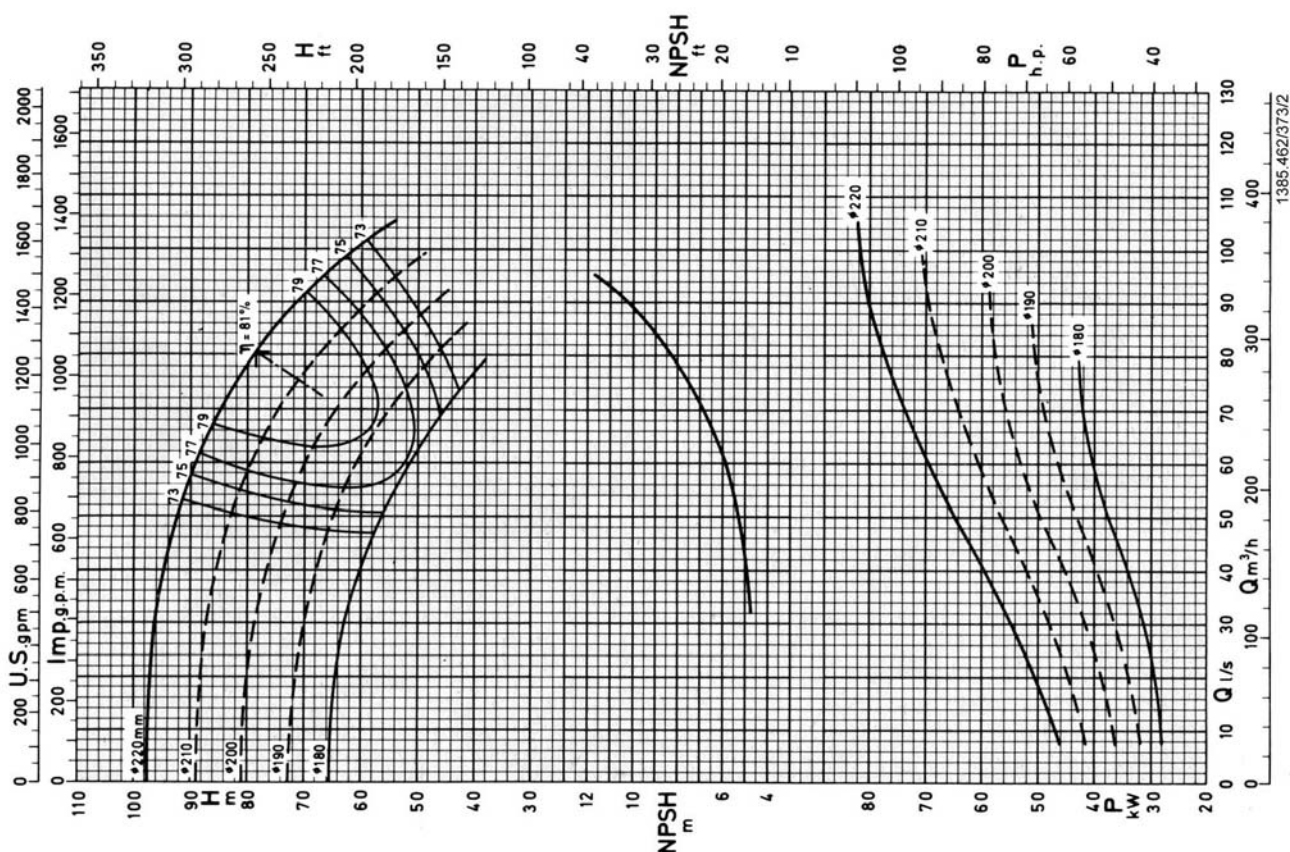
KSB RDL 125-200 B

3500 rpm



KSB RDL 125-200 A

3500 rpm

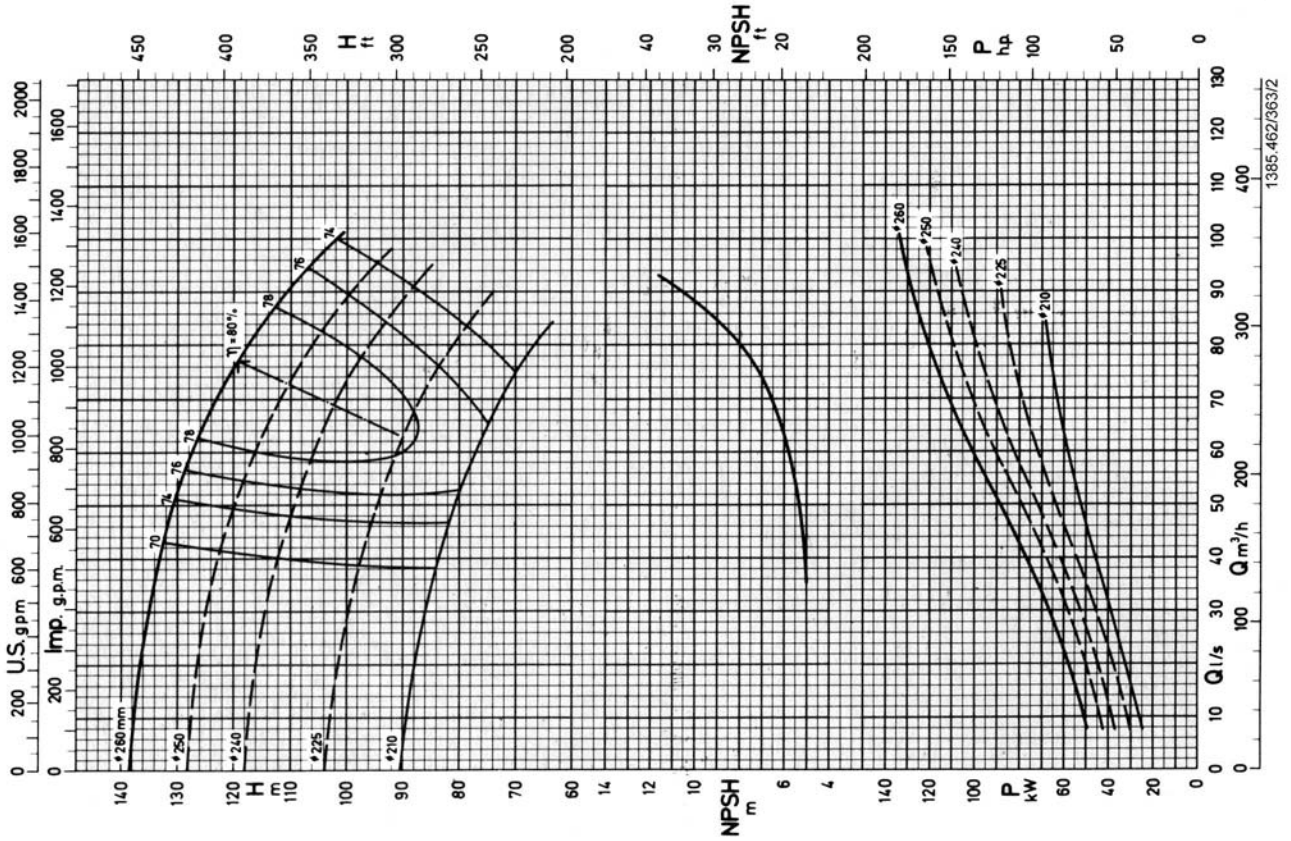


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

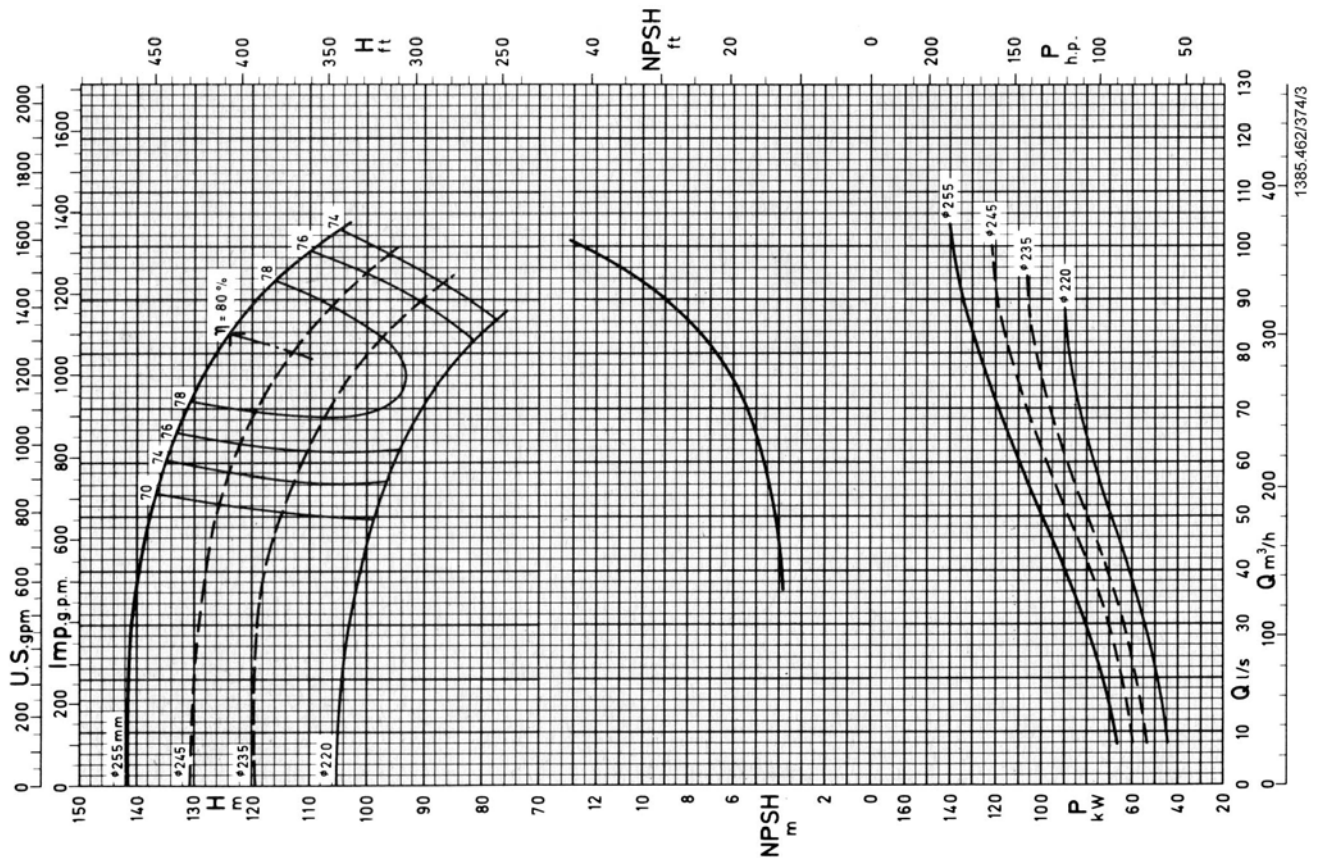
KSB RDL 125-250 B

3500 rpm



KSB RDL 125-250 A

3500 rpm

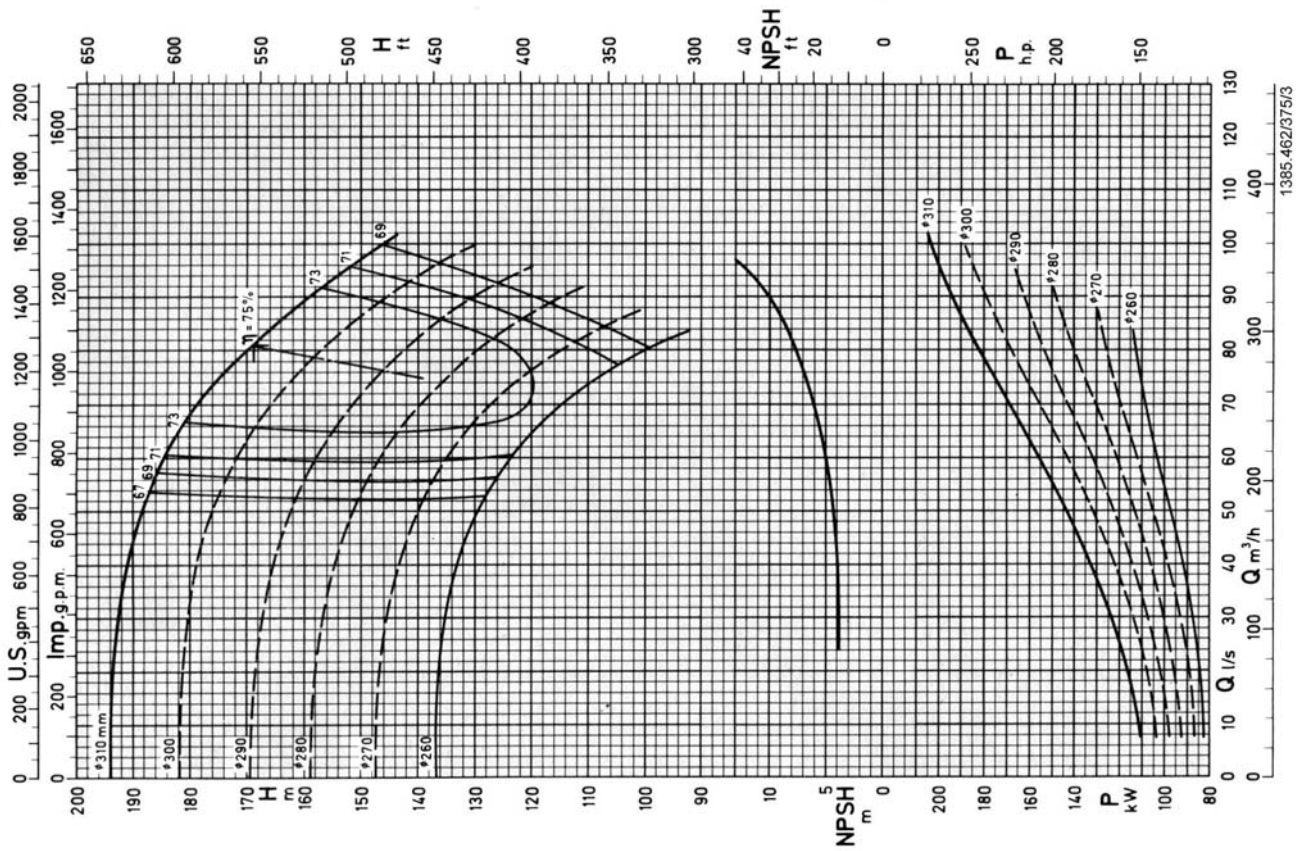


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

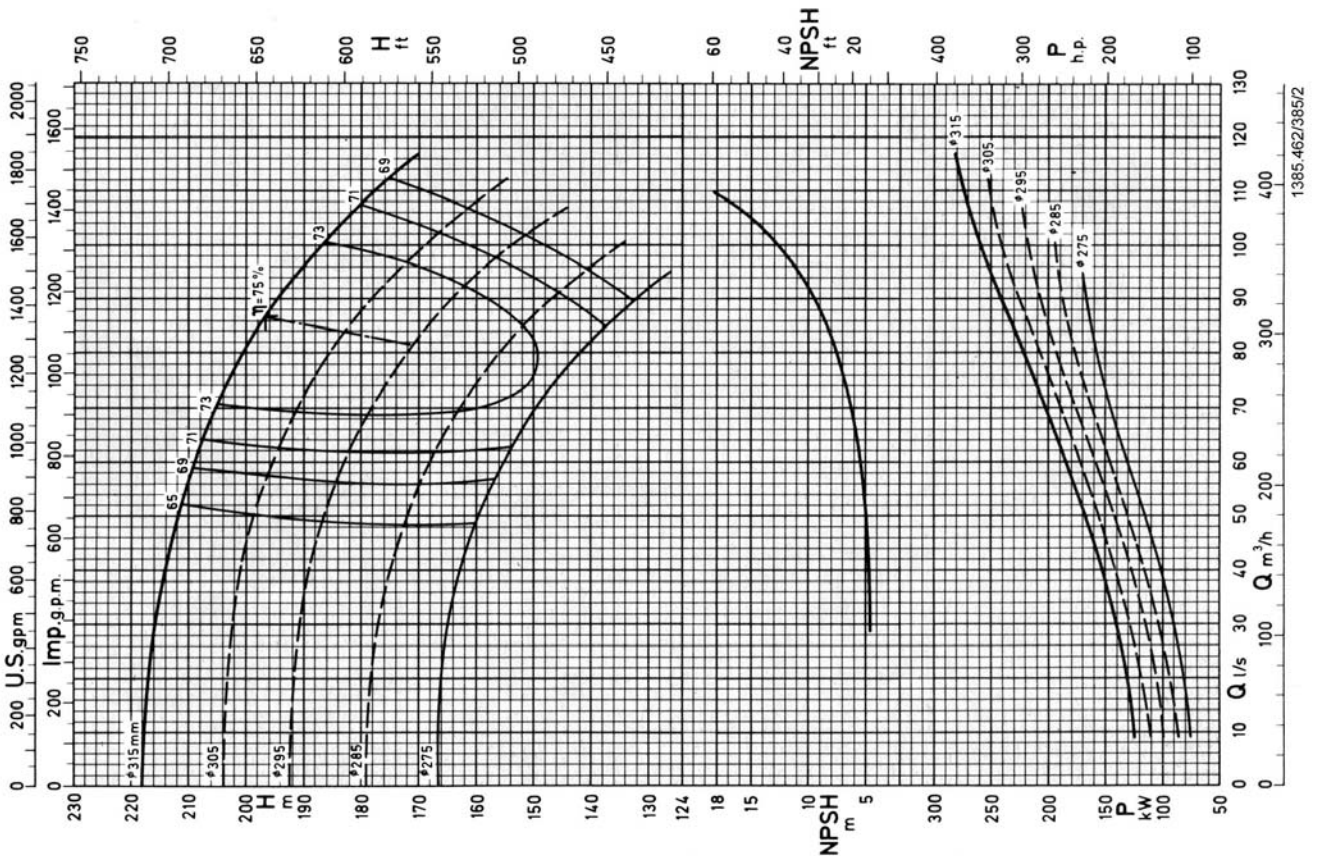
KSB RDL 125-310 B

3500 rpm



KSB RDL 125-310 A

3500 rpm

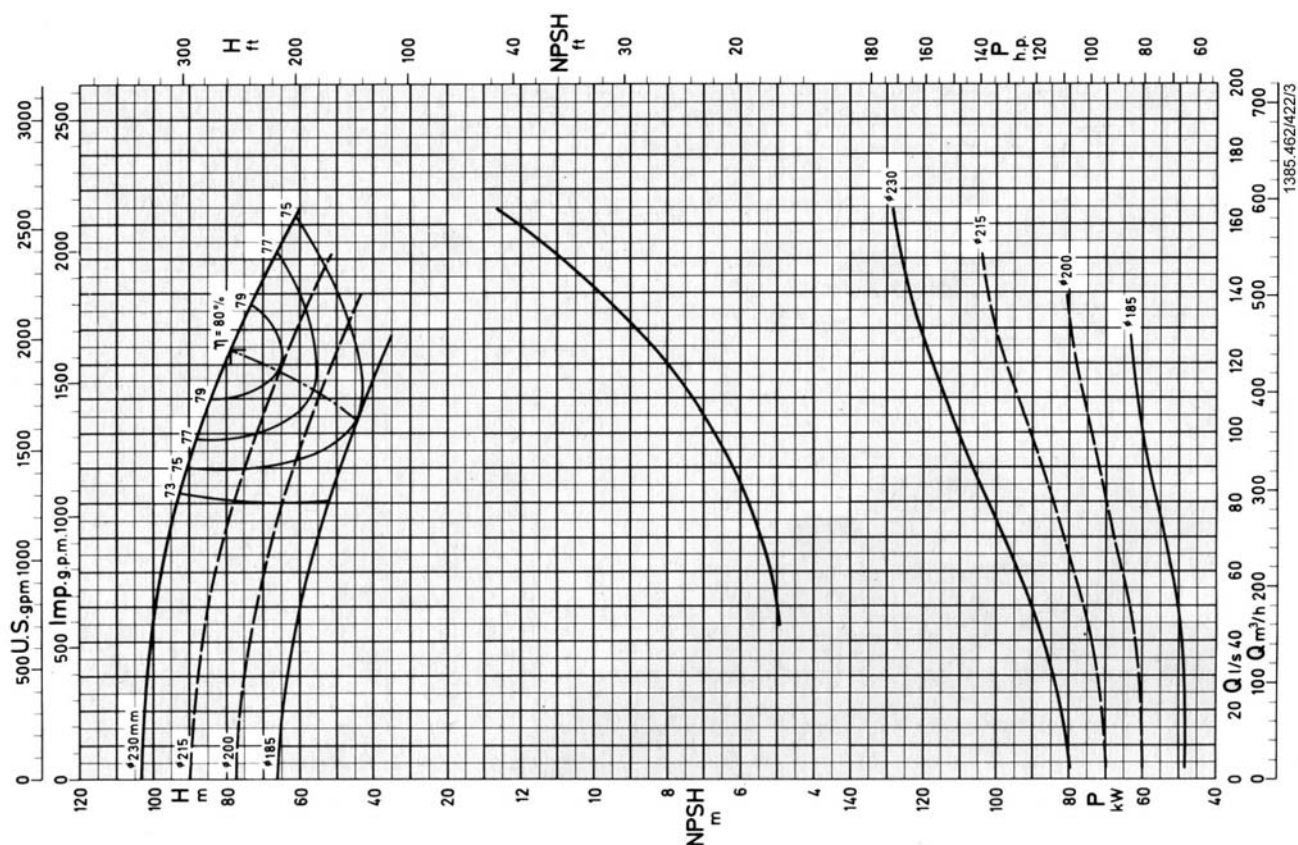


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

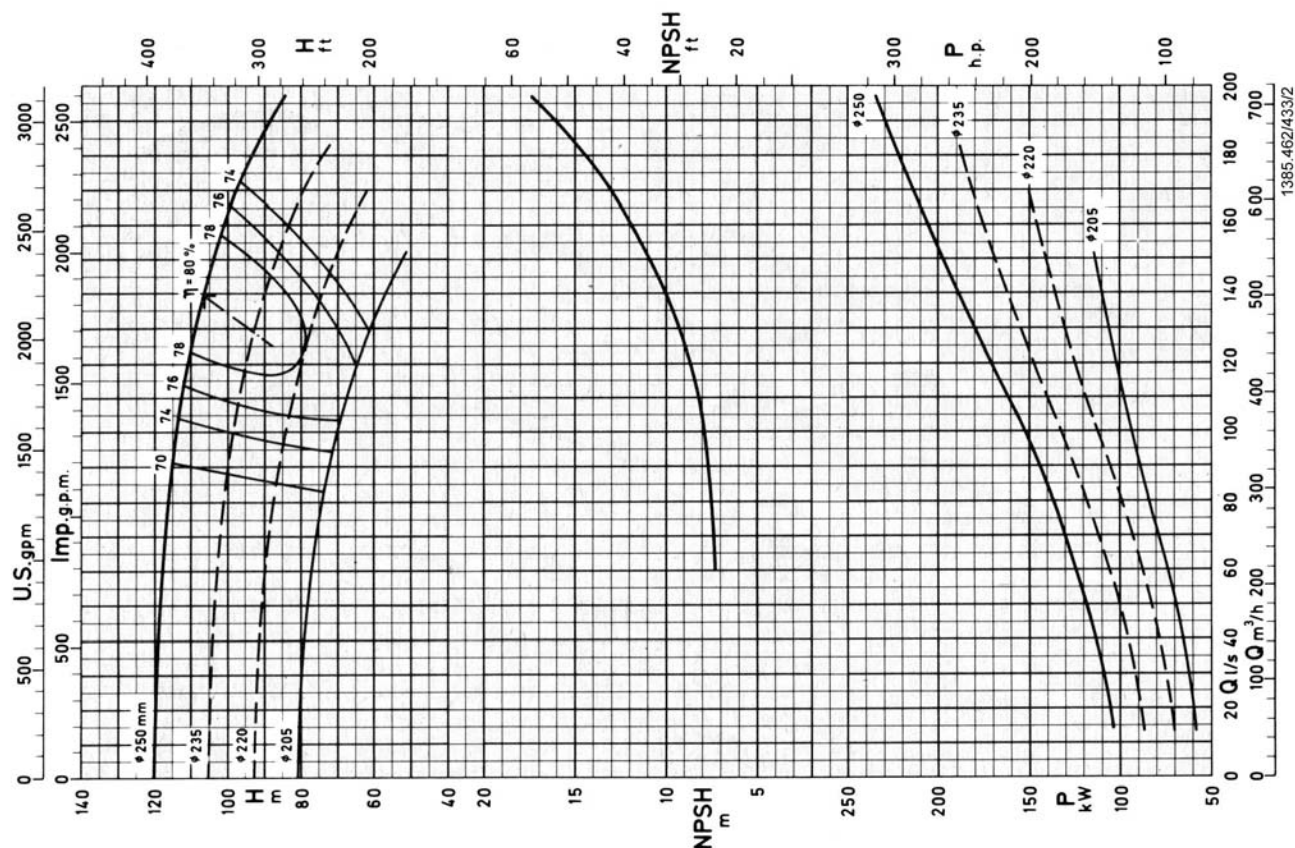
KSB RDL 150-250 B

3500 rpm



KSB RDL 150-250 A

3500 rpm

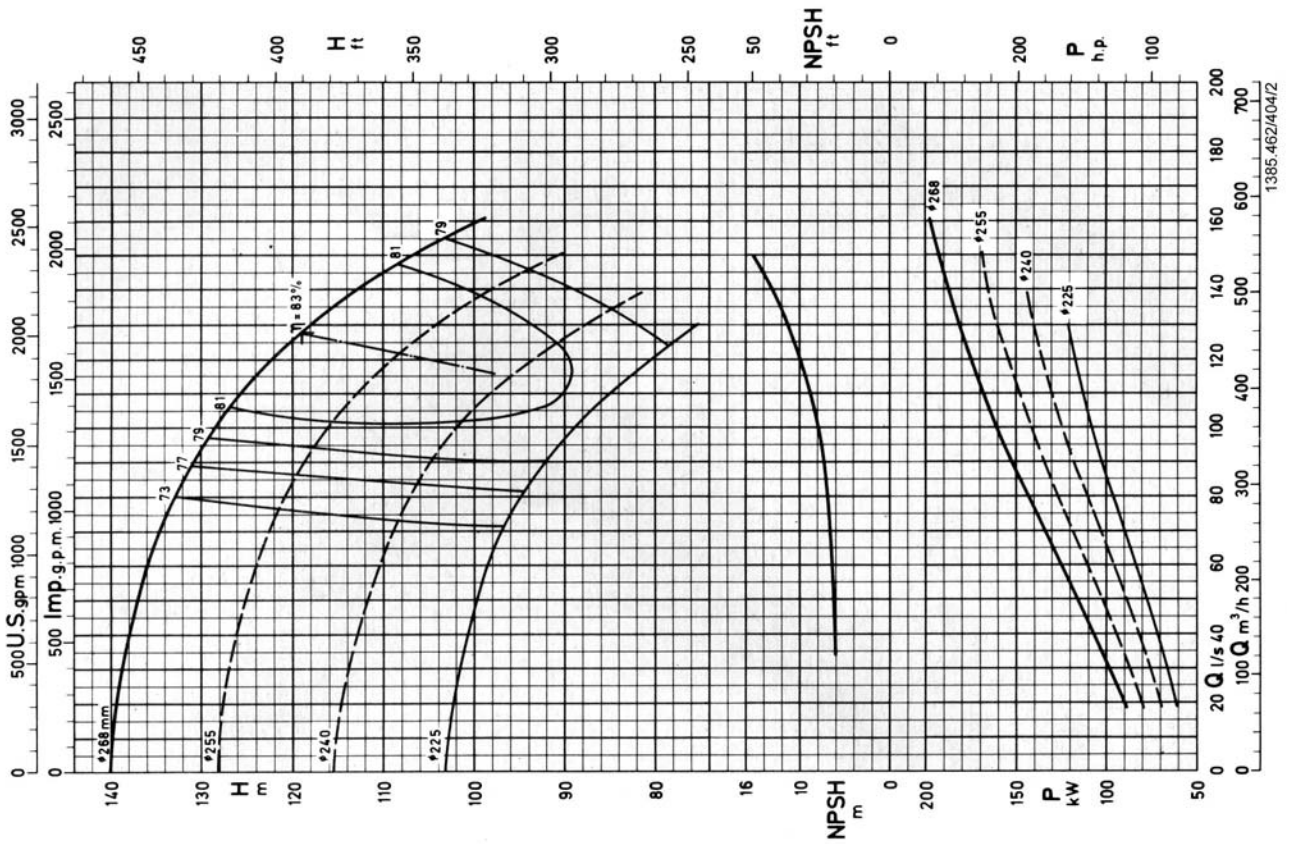


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

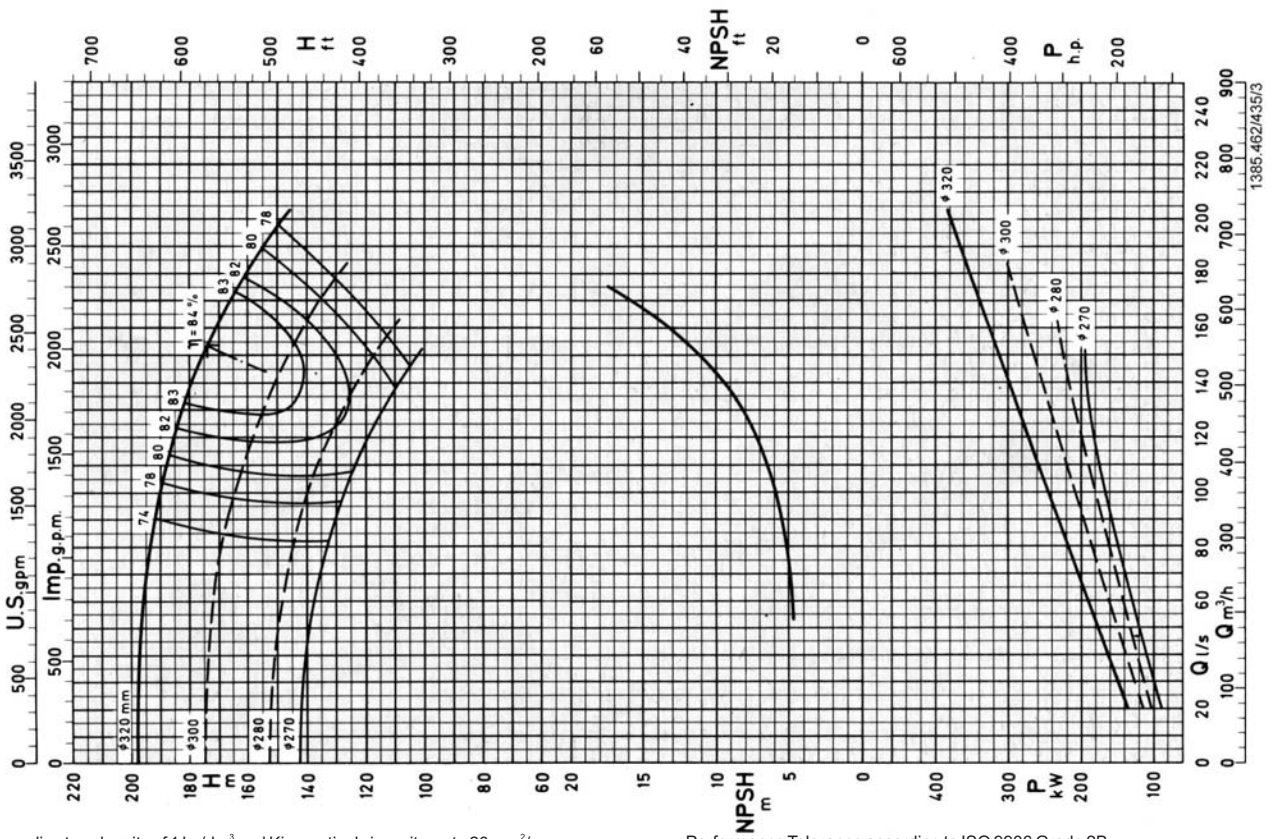
KSB RDL 150-310 B

3500 rpm



KSB RDL 150-310 A

3500 rpm

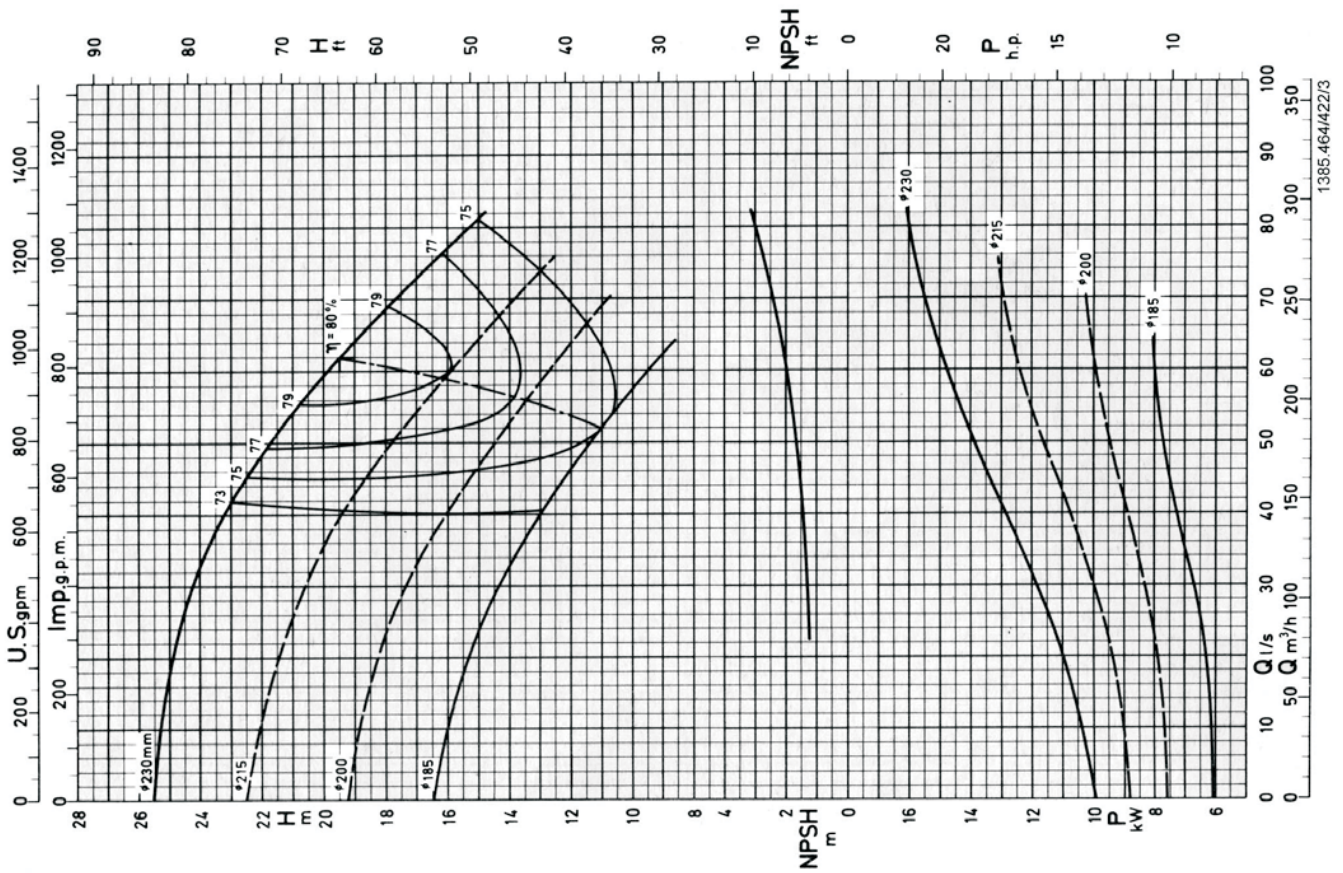


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

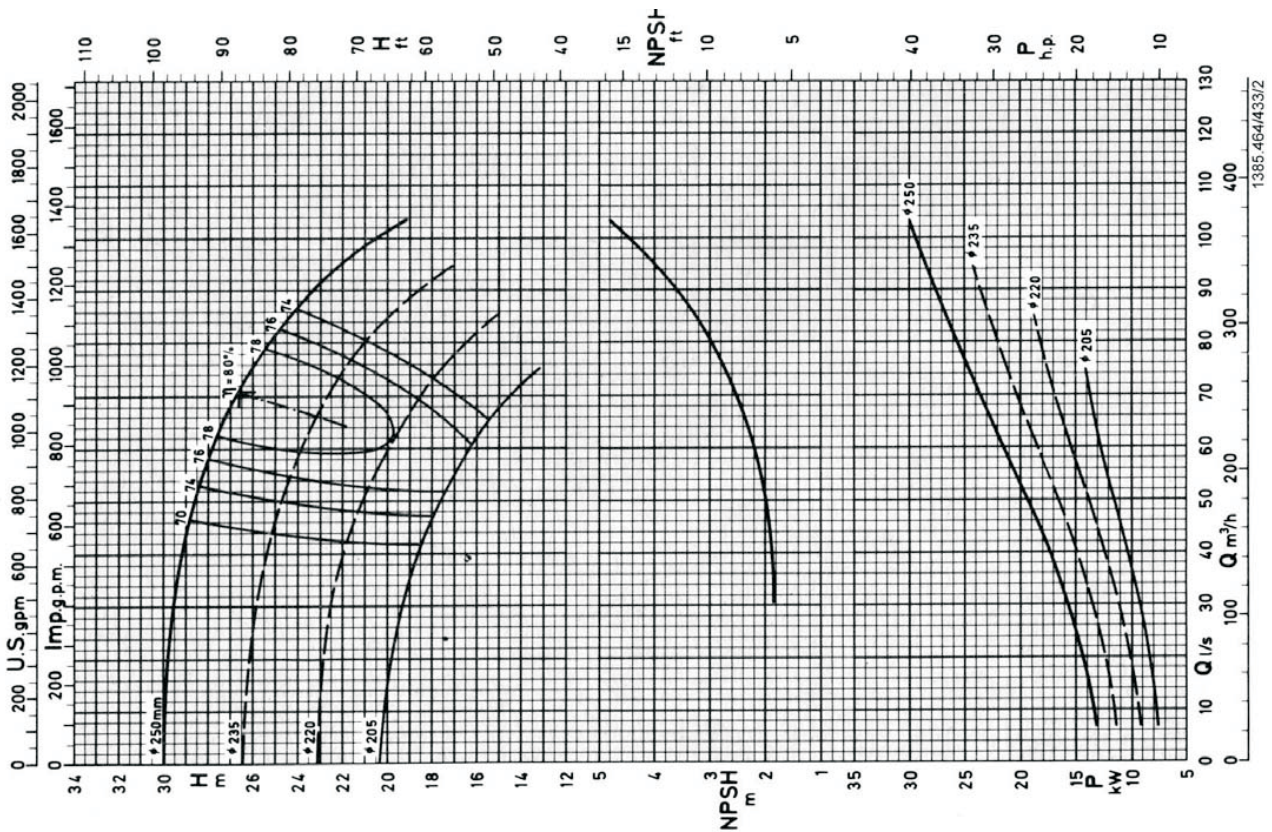
KSB RDL 150-250 B

1750 rpm



KSB RDL 150-250 A

1750 rpm

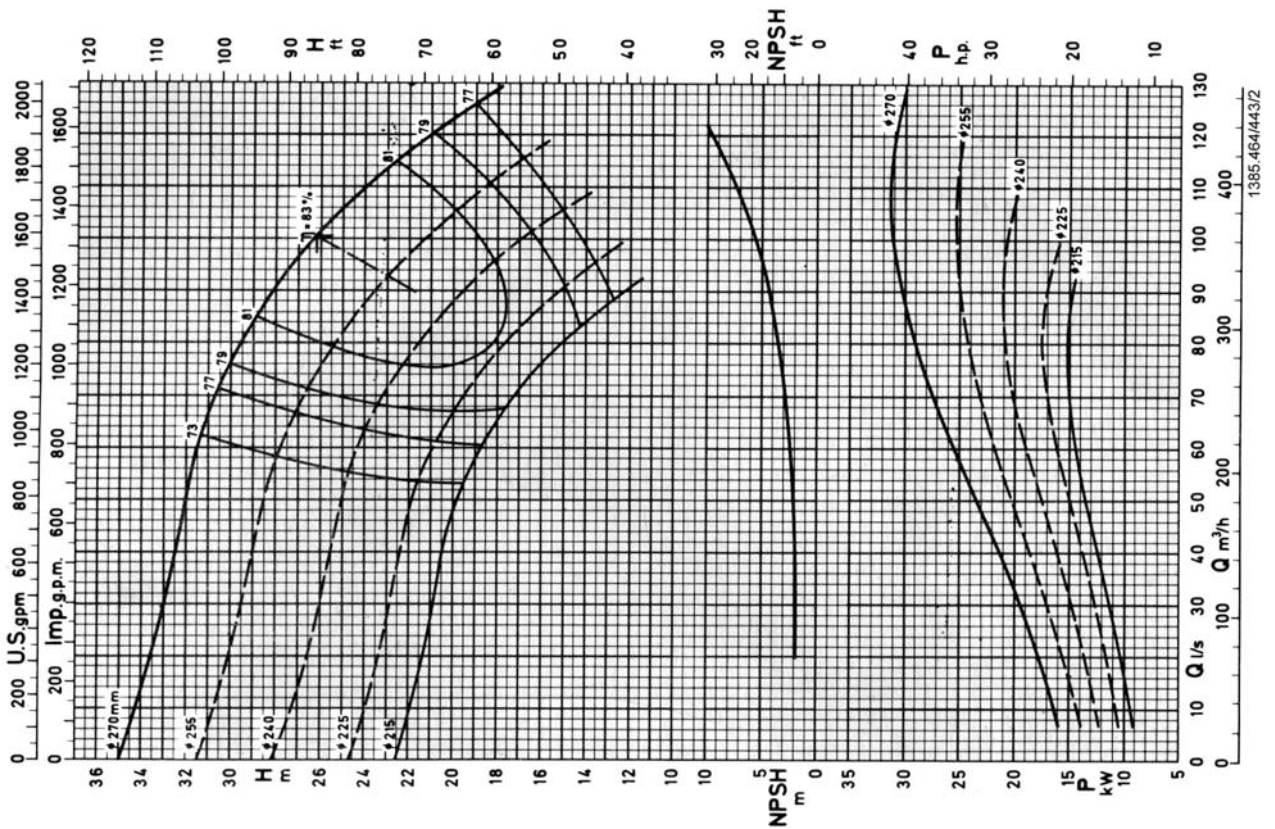


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

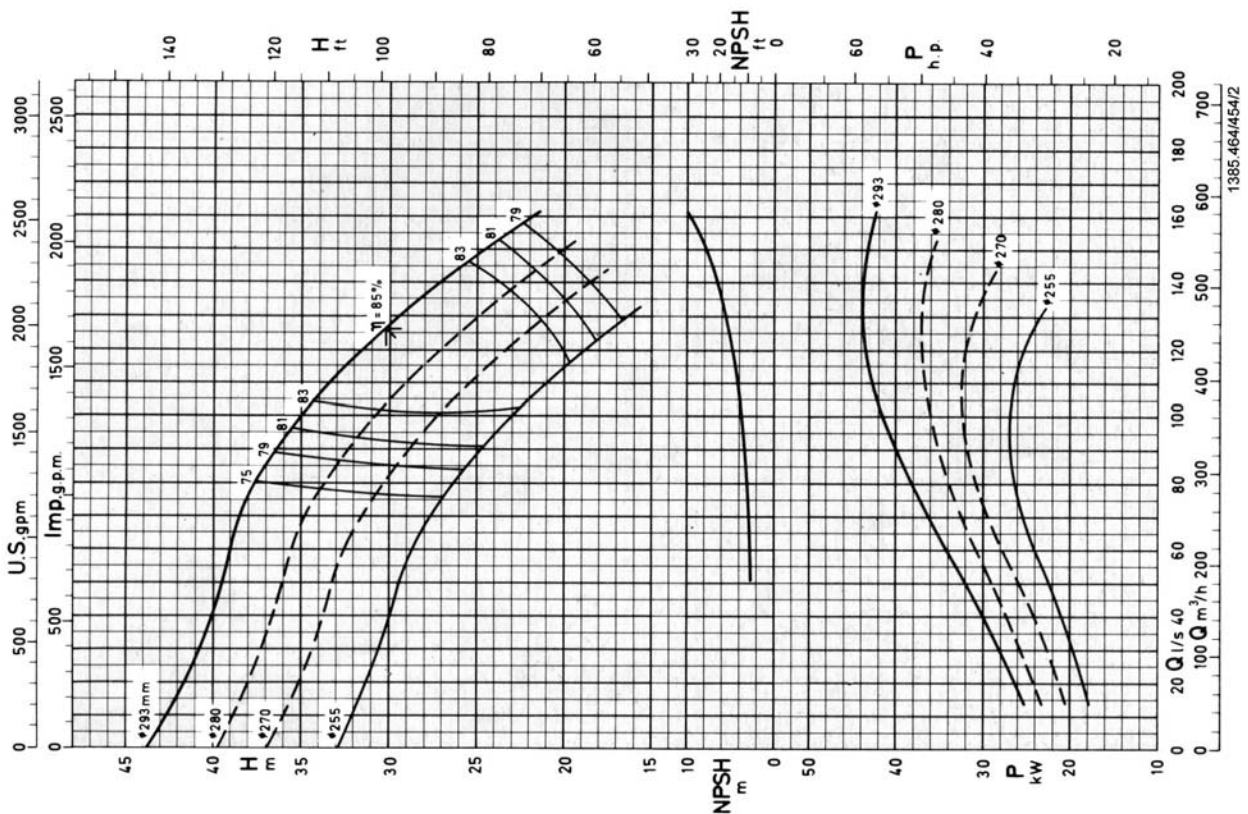
KSB RDL 150-280 B

1750 rpm



KSB RDL 150-280 A

1750 rpm

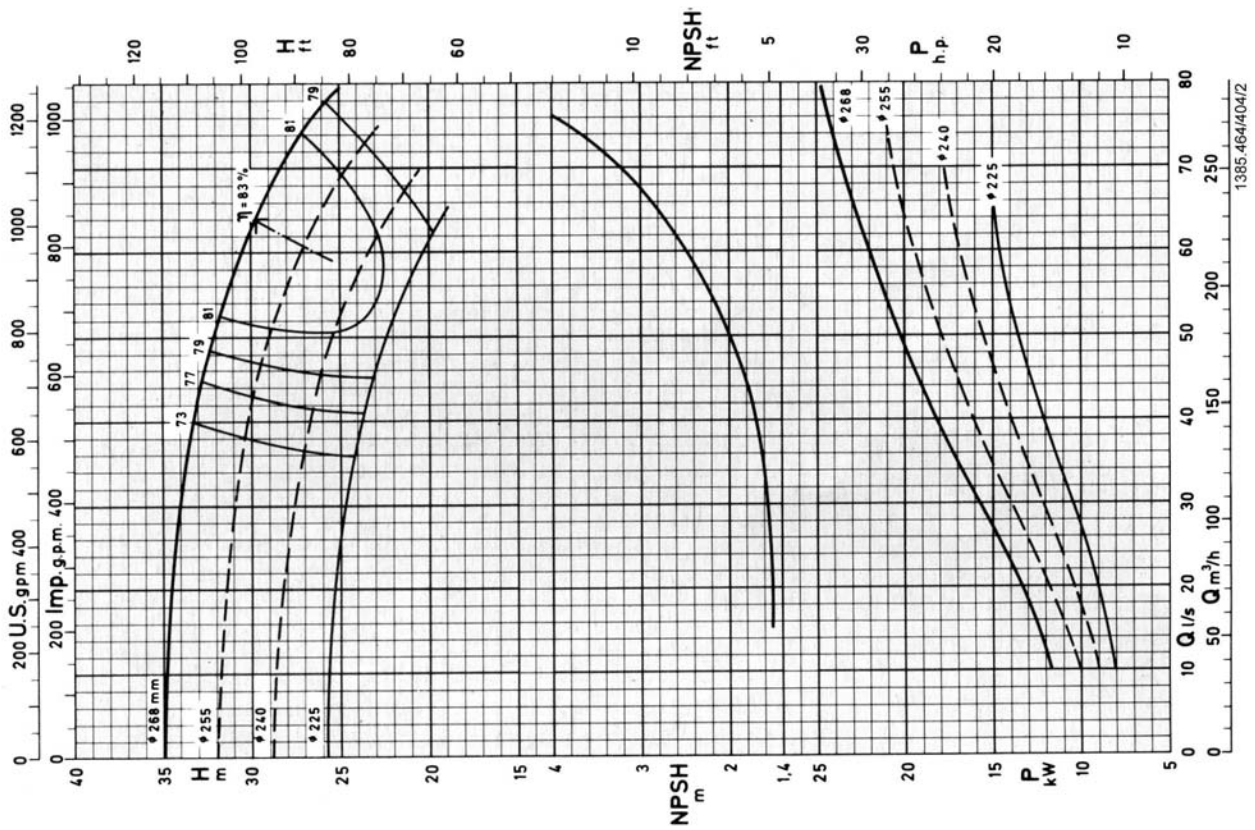


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

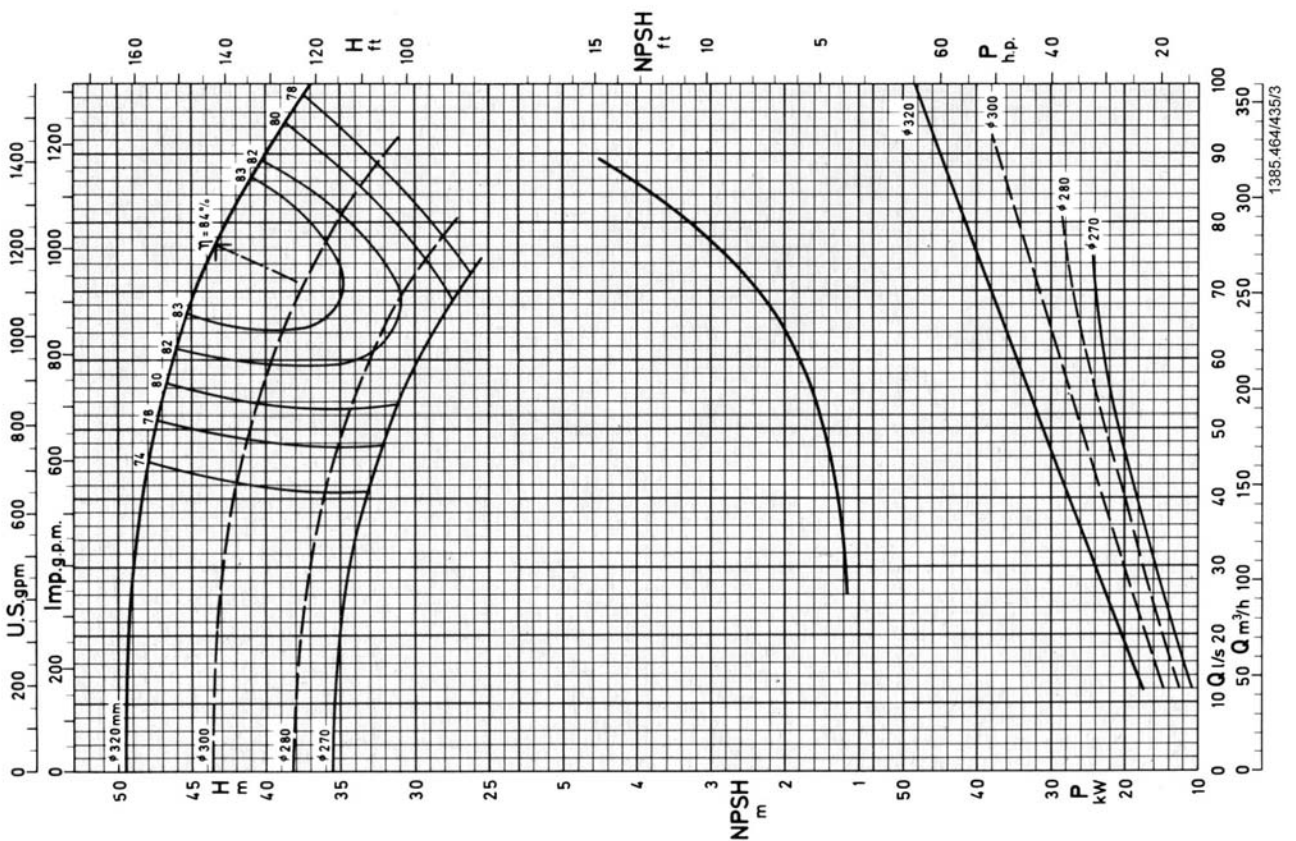
KSB RDL 150-310 B

1750 rpm



KSB RDL 150-310 A

1750 rpm

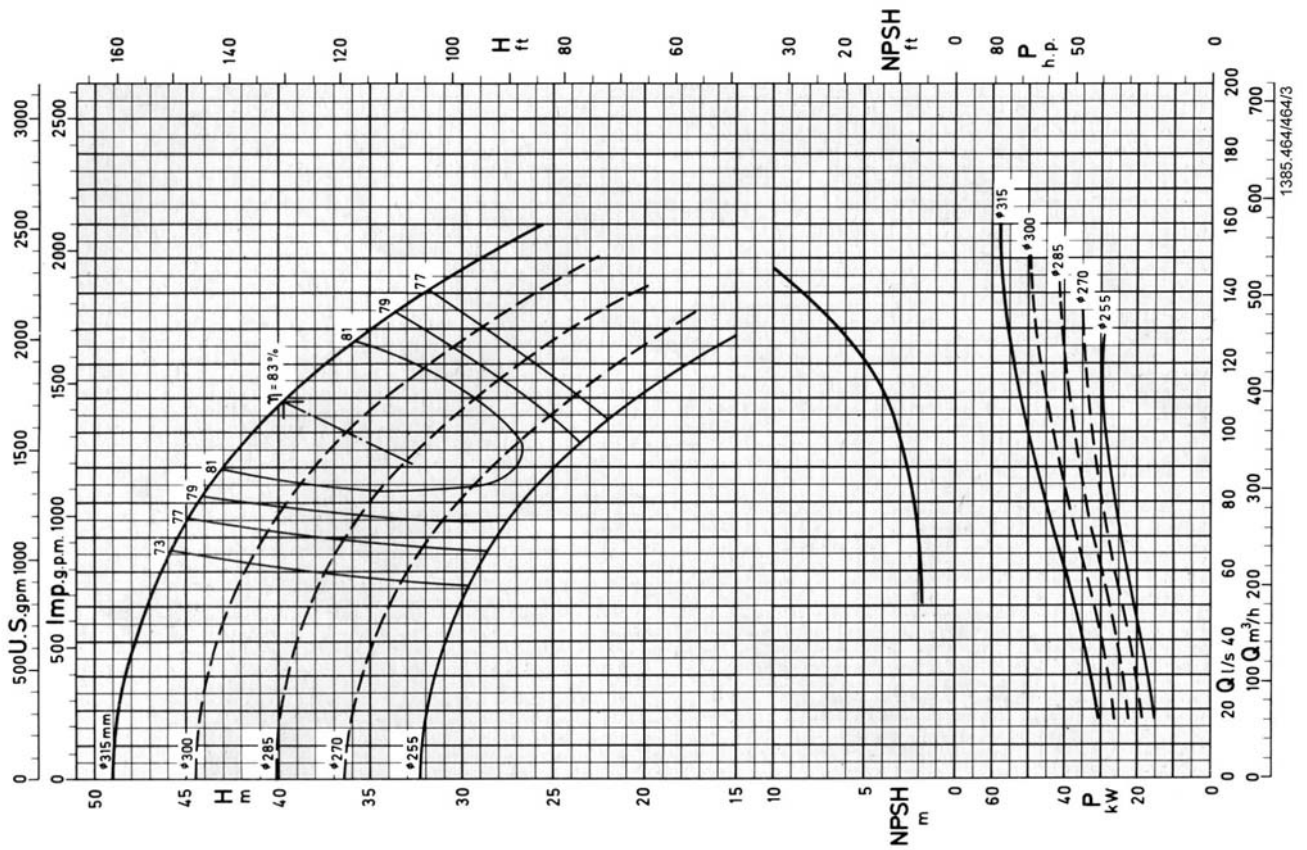


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

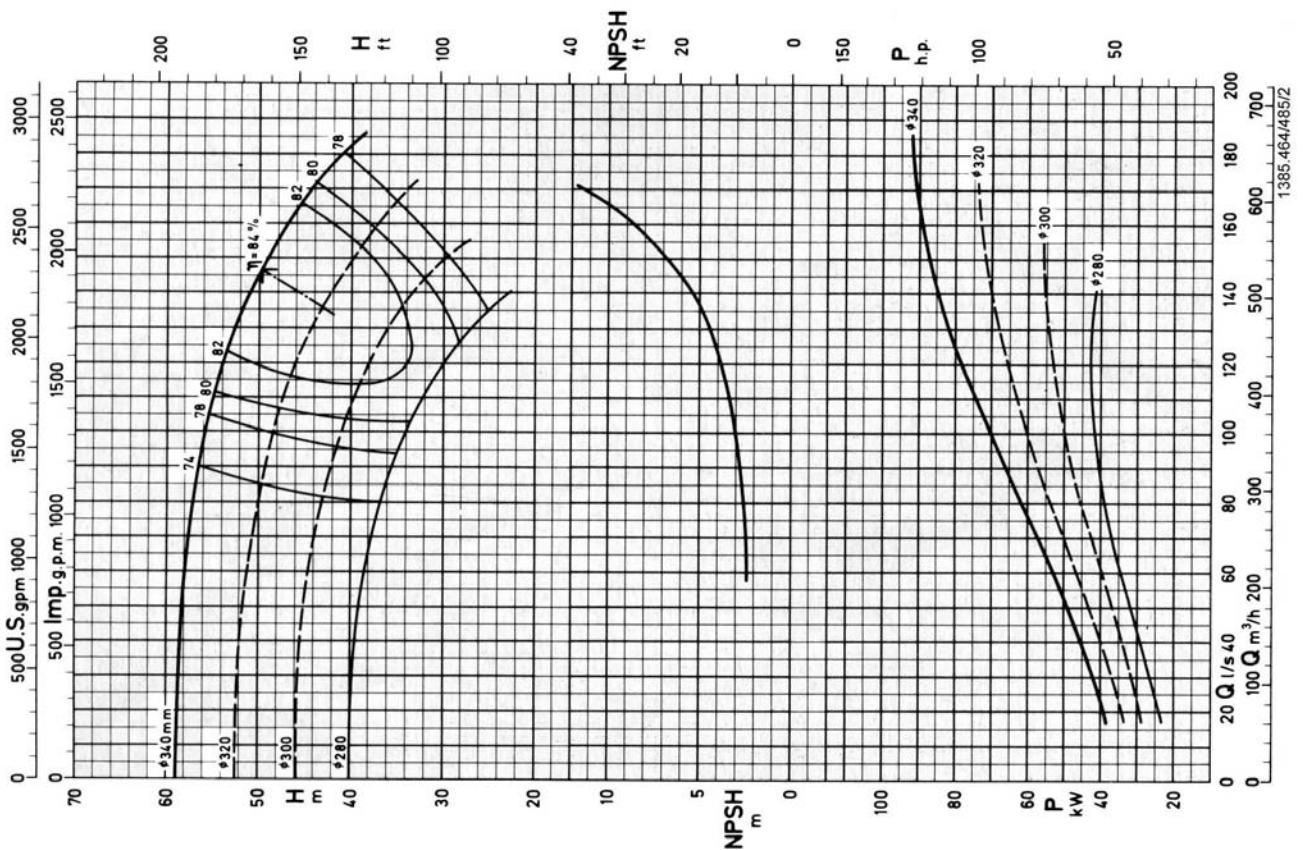
KSB RDL 150-340 B

1750 rpm



KSB RDL 150-340 A

1750 rpm

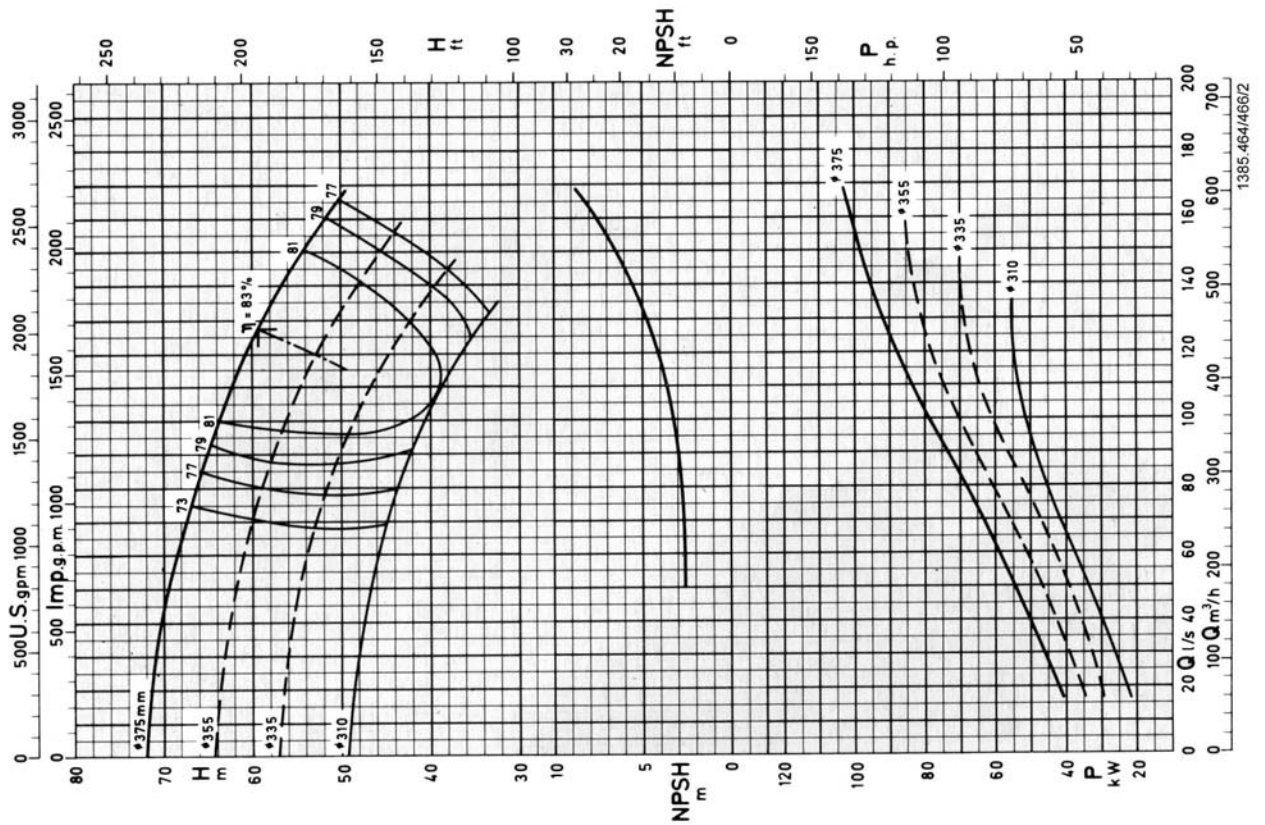


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

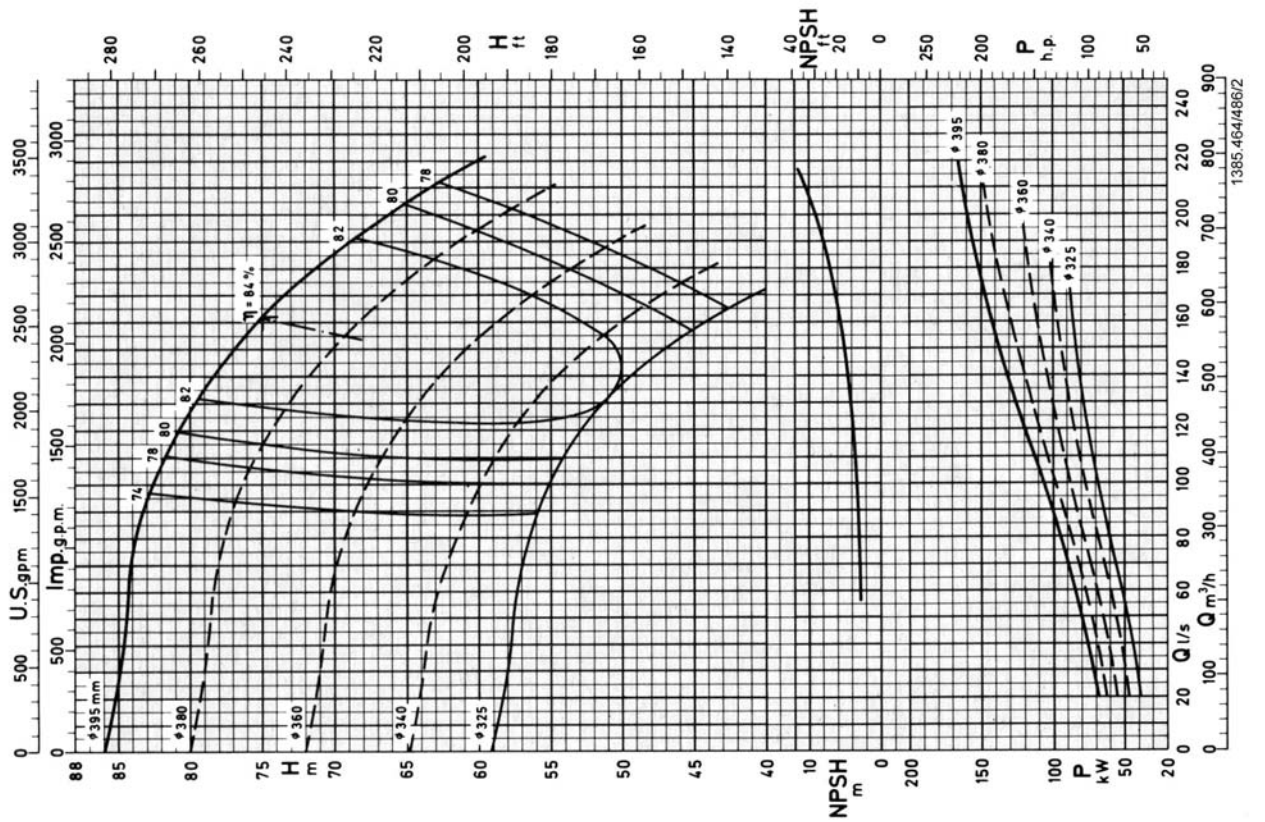
KSB RDL 150-400 B

1750 rpm



KSB RDL 150-400 A

1750 rpm

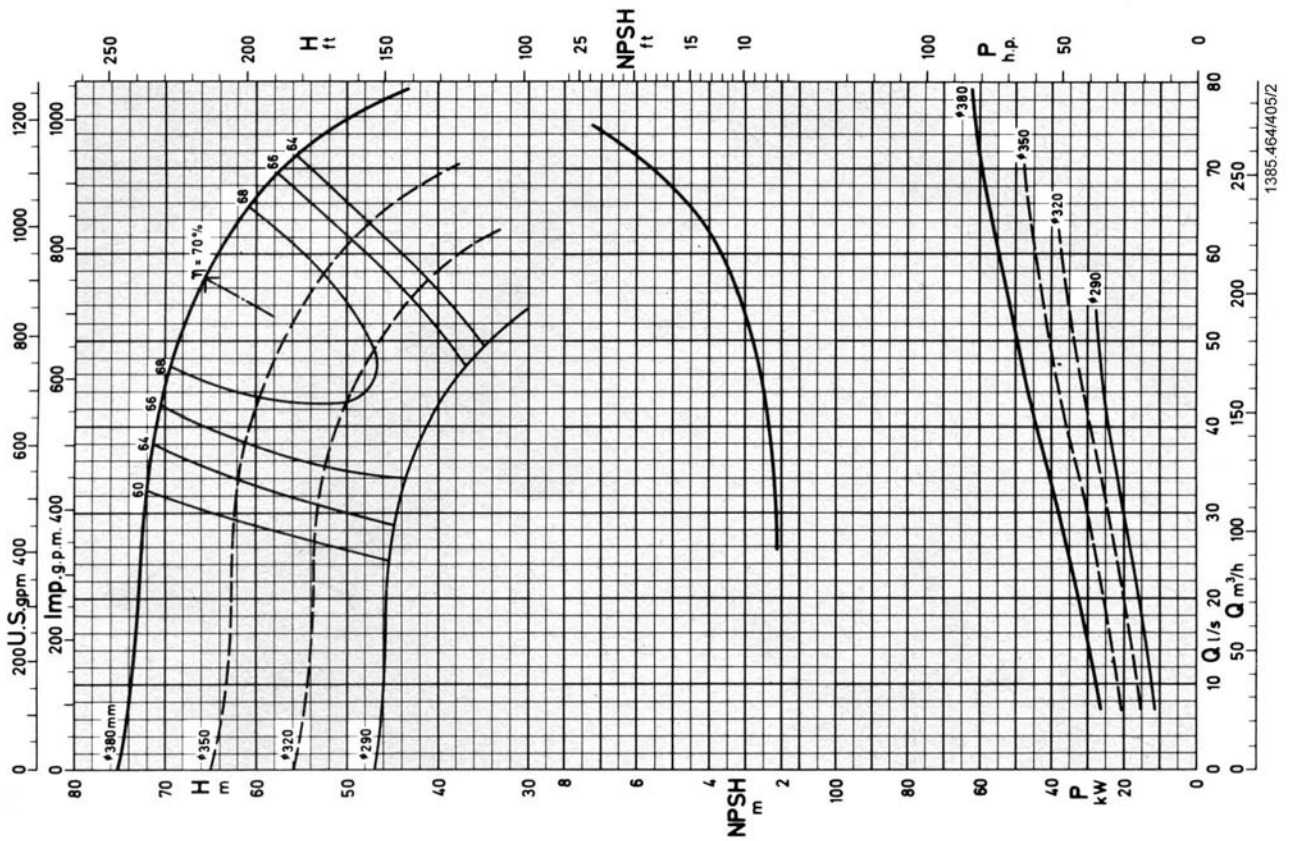


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

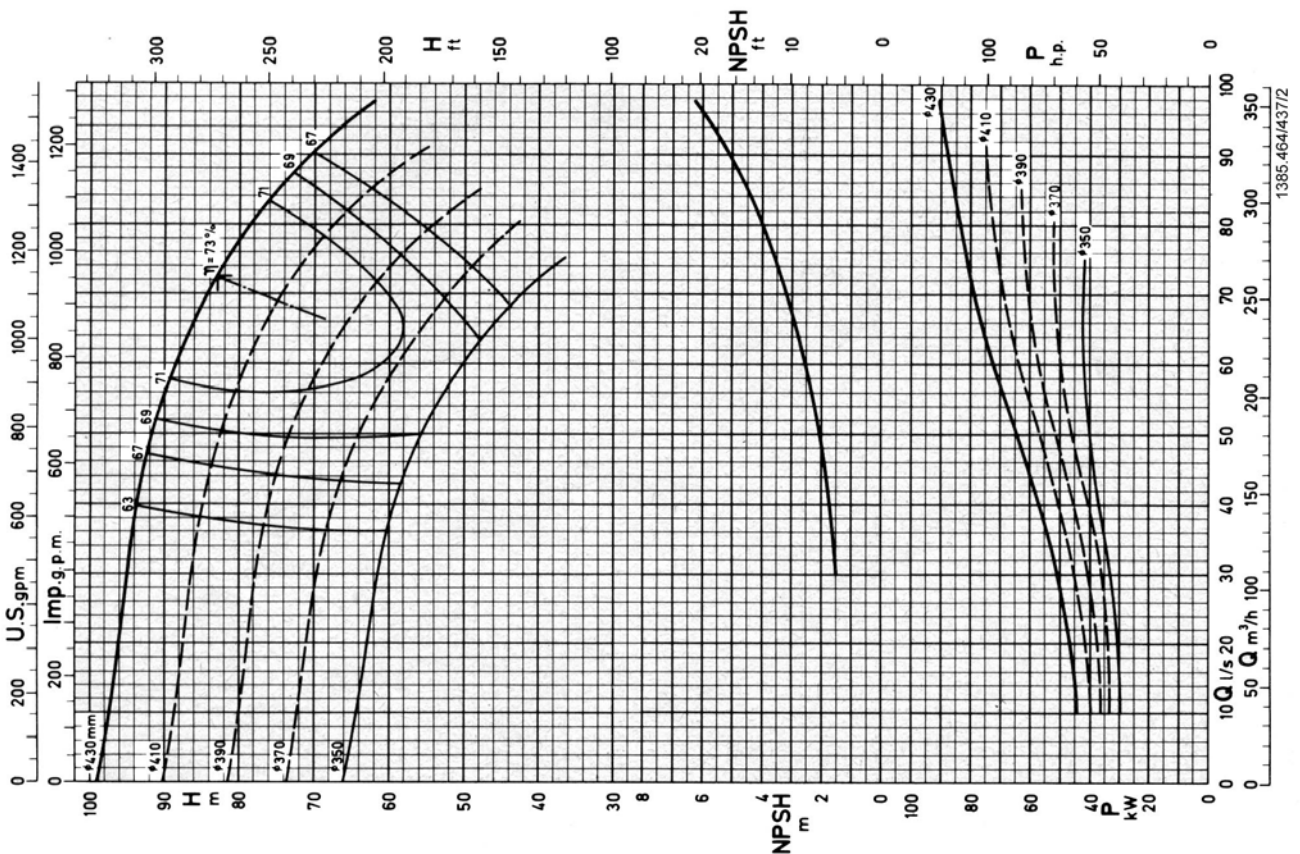
KSB RDL 150-430 B

1750 rpm



KSB RDL 150-430 A

1750 rpm

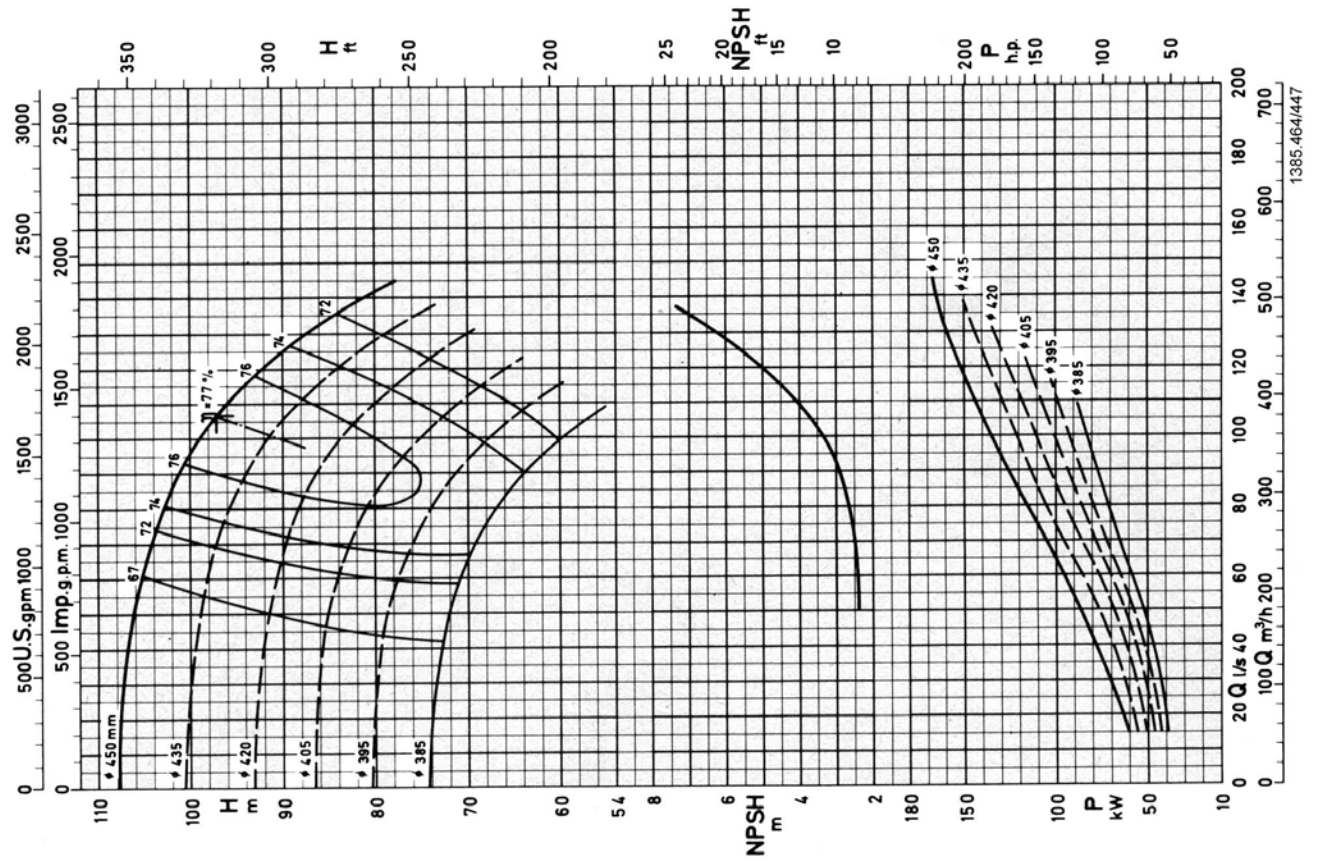


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

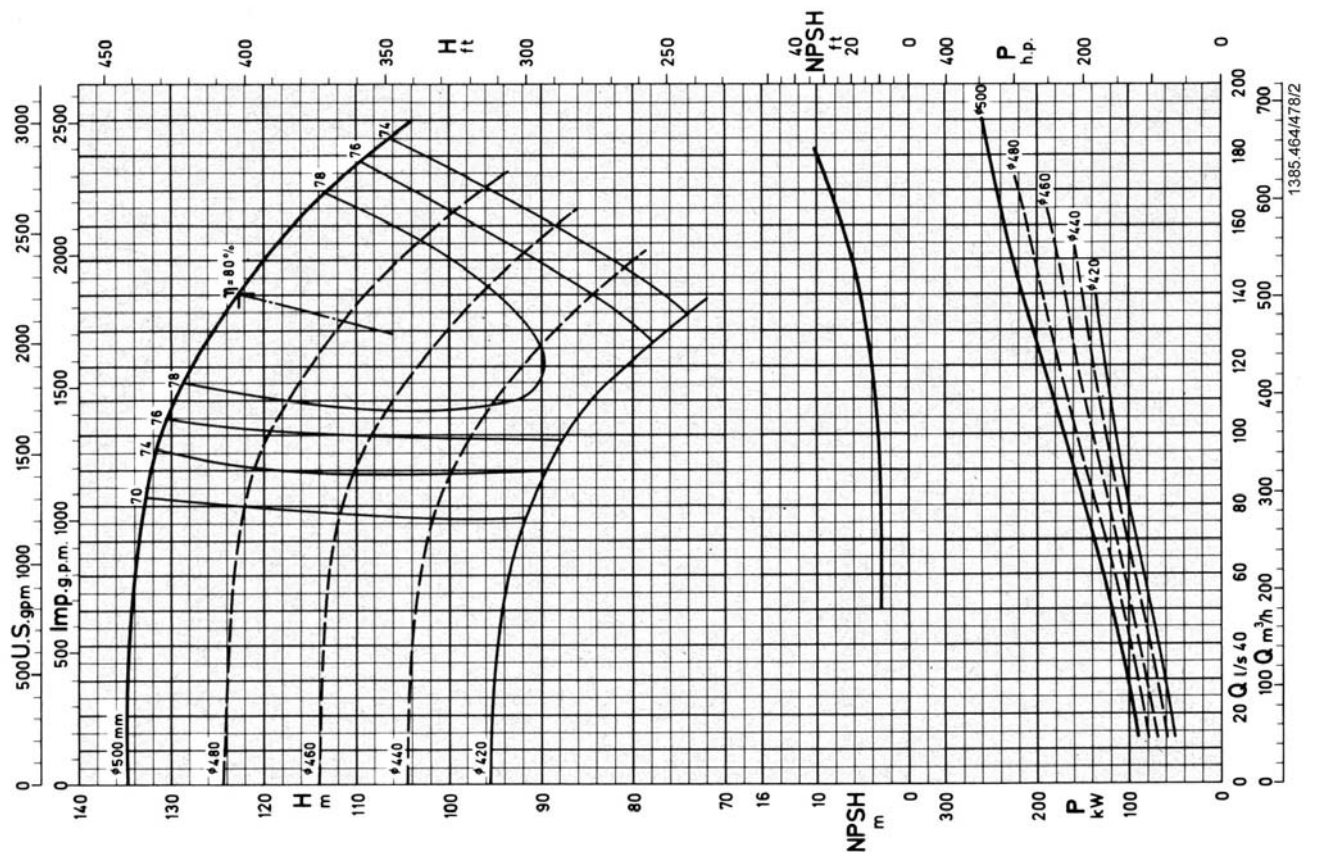
KSB RDL 150-500 B

1750 rpm



KSB RDL 150-500 A

1750 rpm

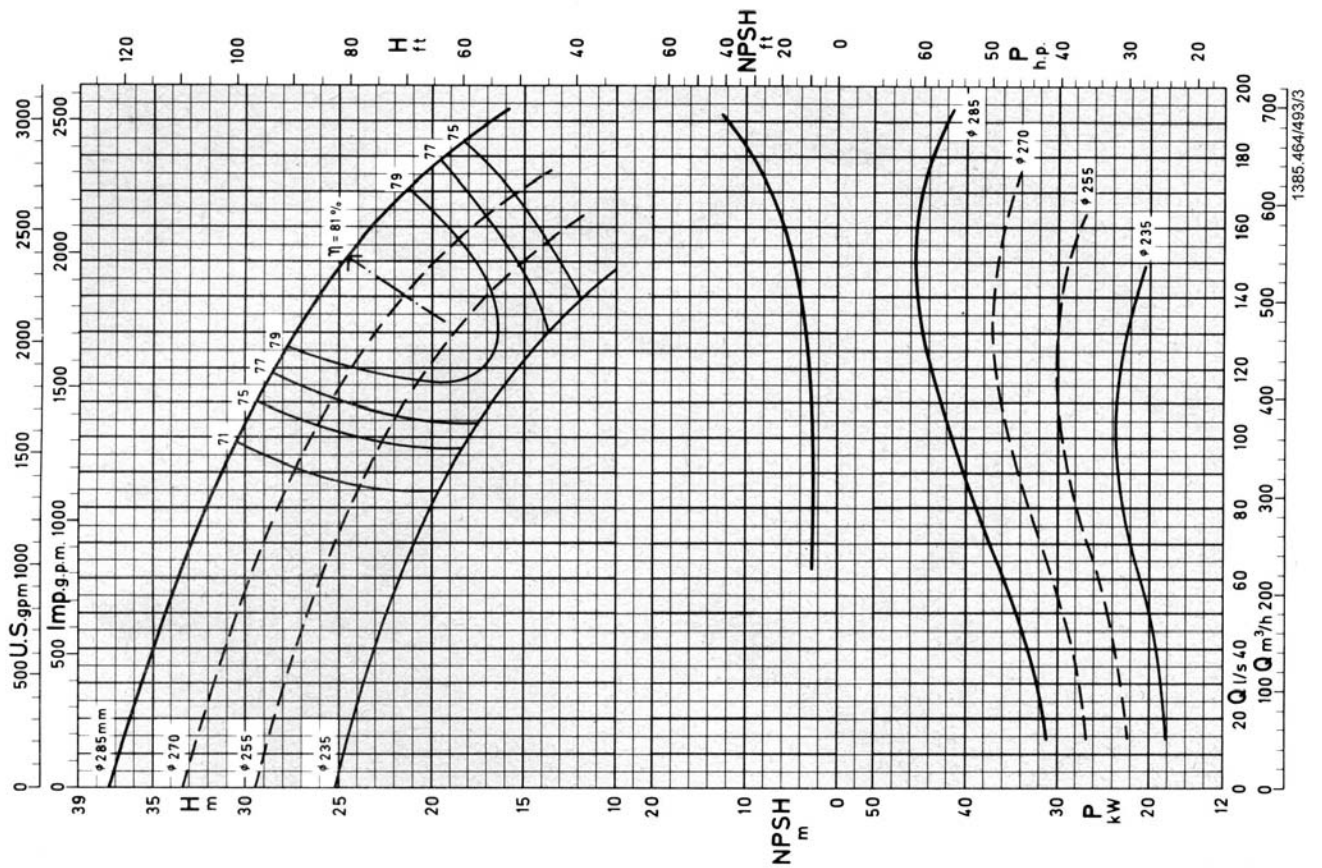


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

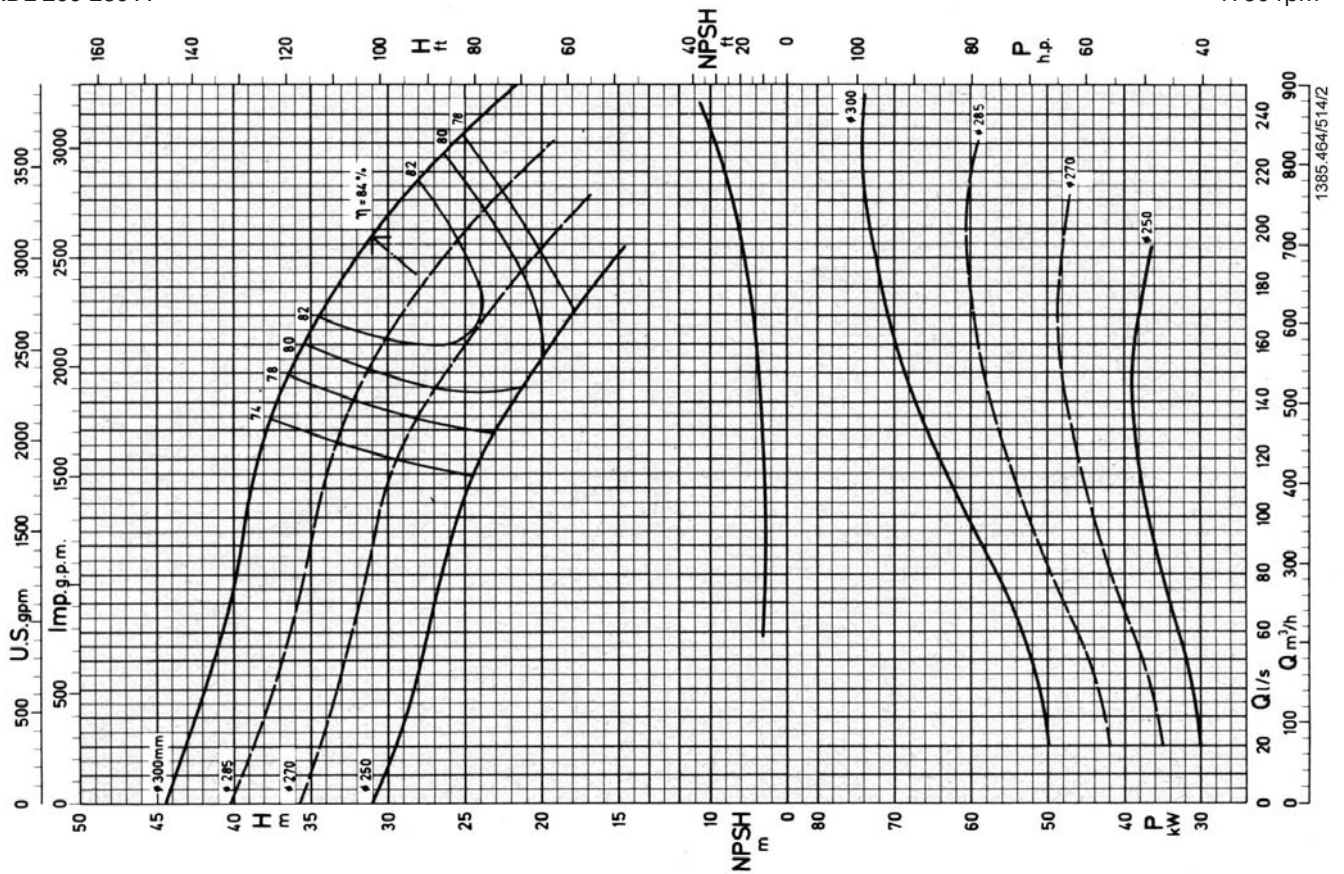
KSB RDL 200-280 B

1750 rpm



KSB RDL 200-280 A

1750 rpm

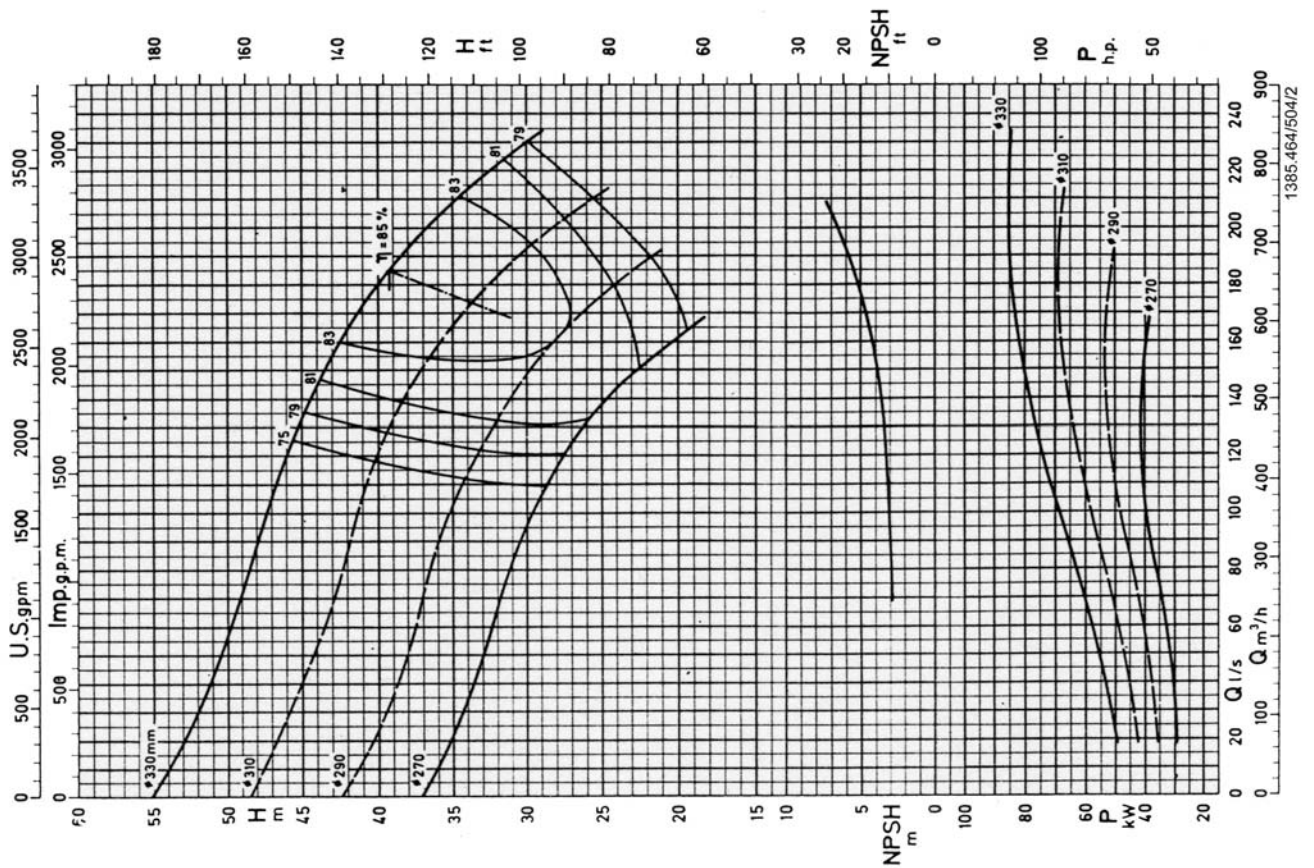


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

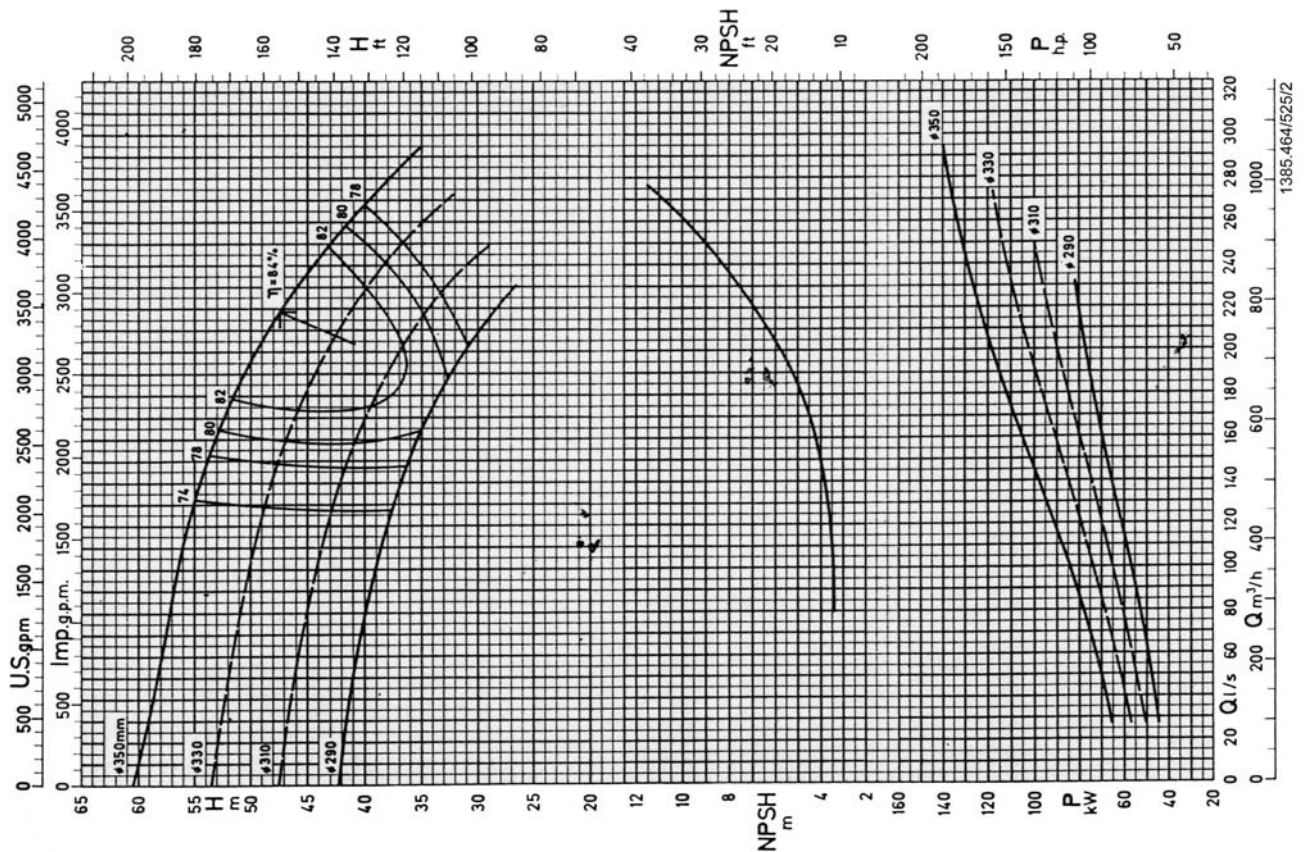
KSB RDL 200-340 B

1750 rpm



KSB RDL 200-340 A

1750 rpm

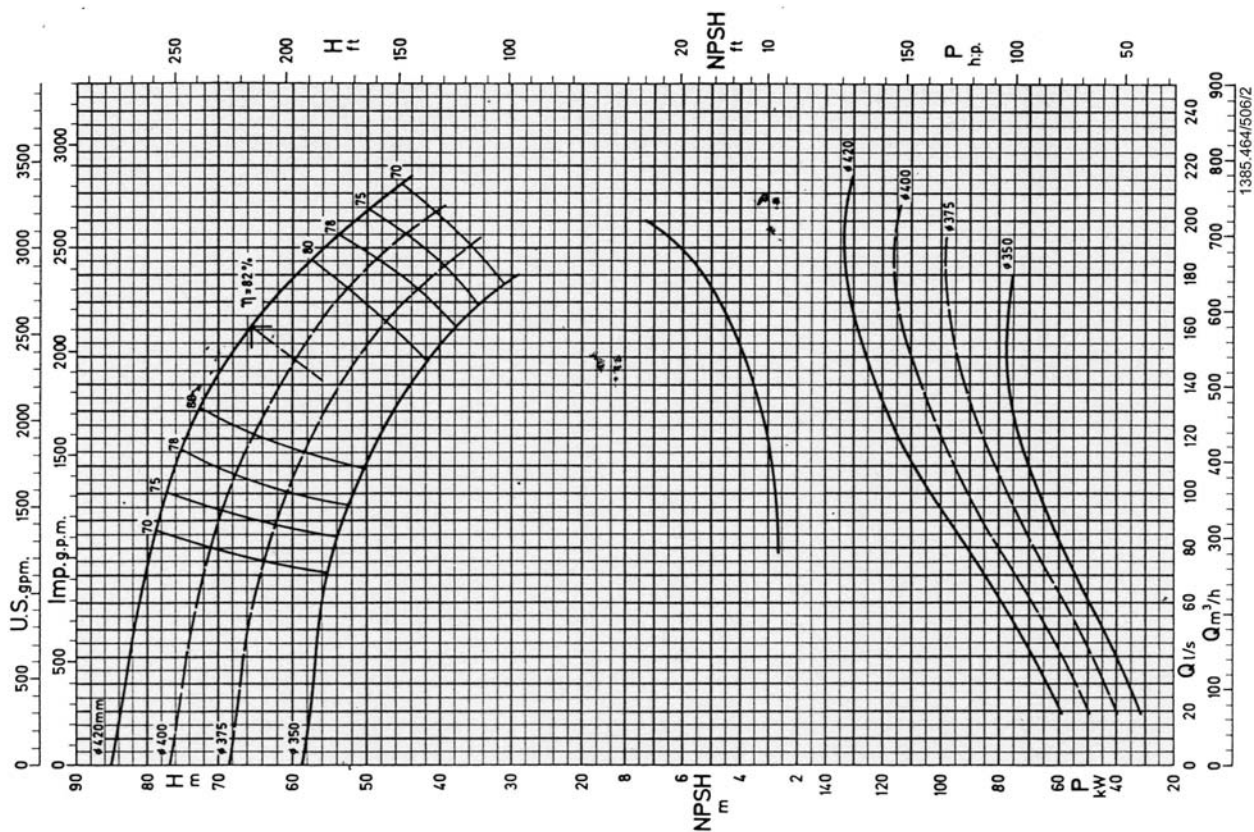


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

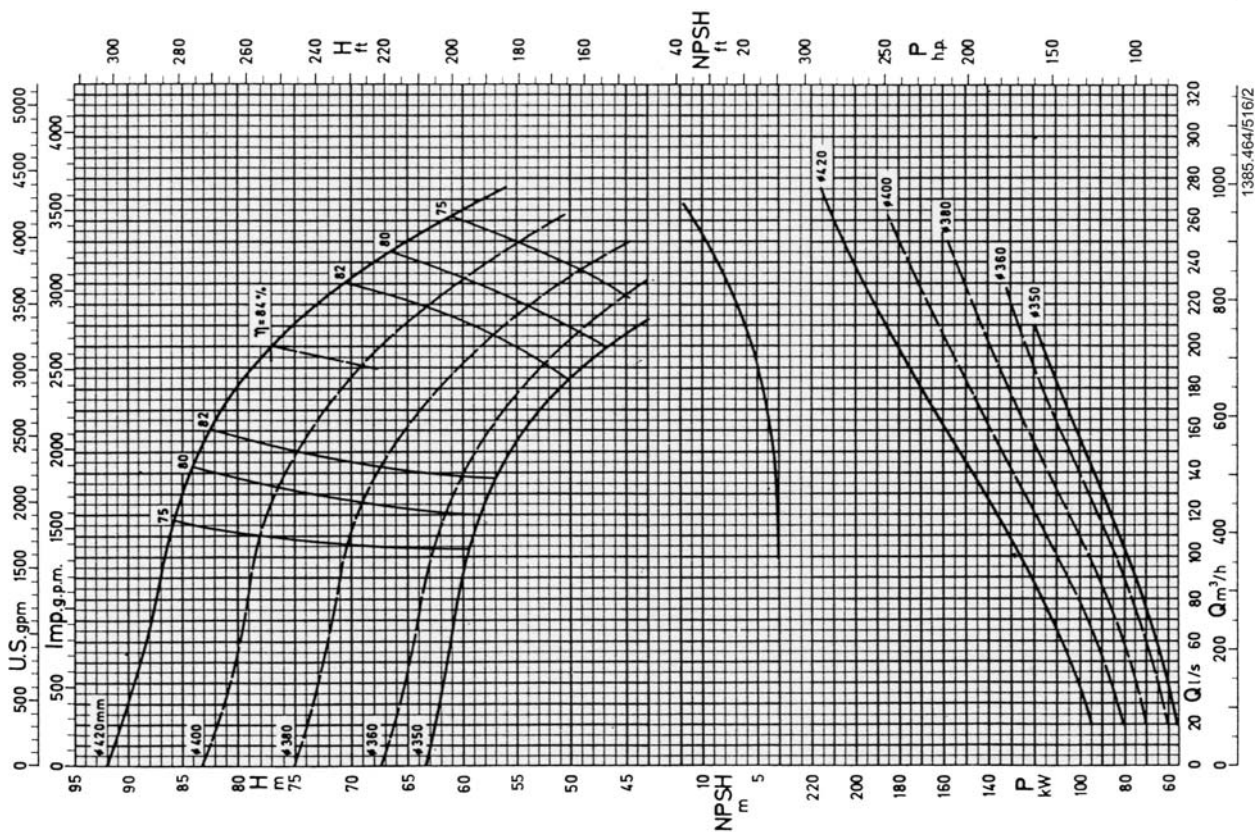
KSB RDL 200-400 B

1750 rpm



KSB RDL 200-400 A

1750 rpm

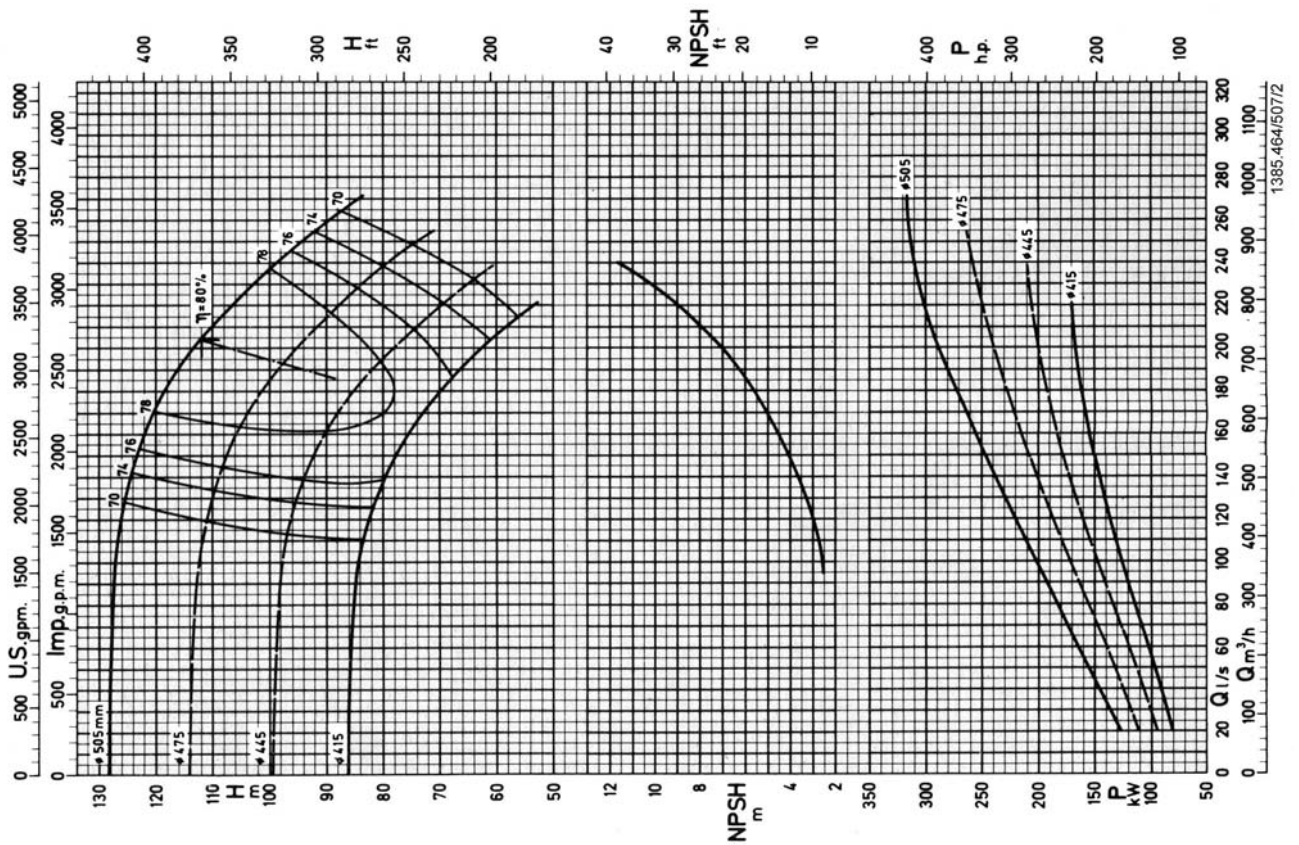


Data applies to a density of 1 kg/dm^3 and Kinematical viscosity up to $20\text{ mm}^2/\text{s}$

Performance Tolerance according to ISO 9906 Grade 2B

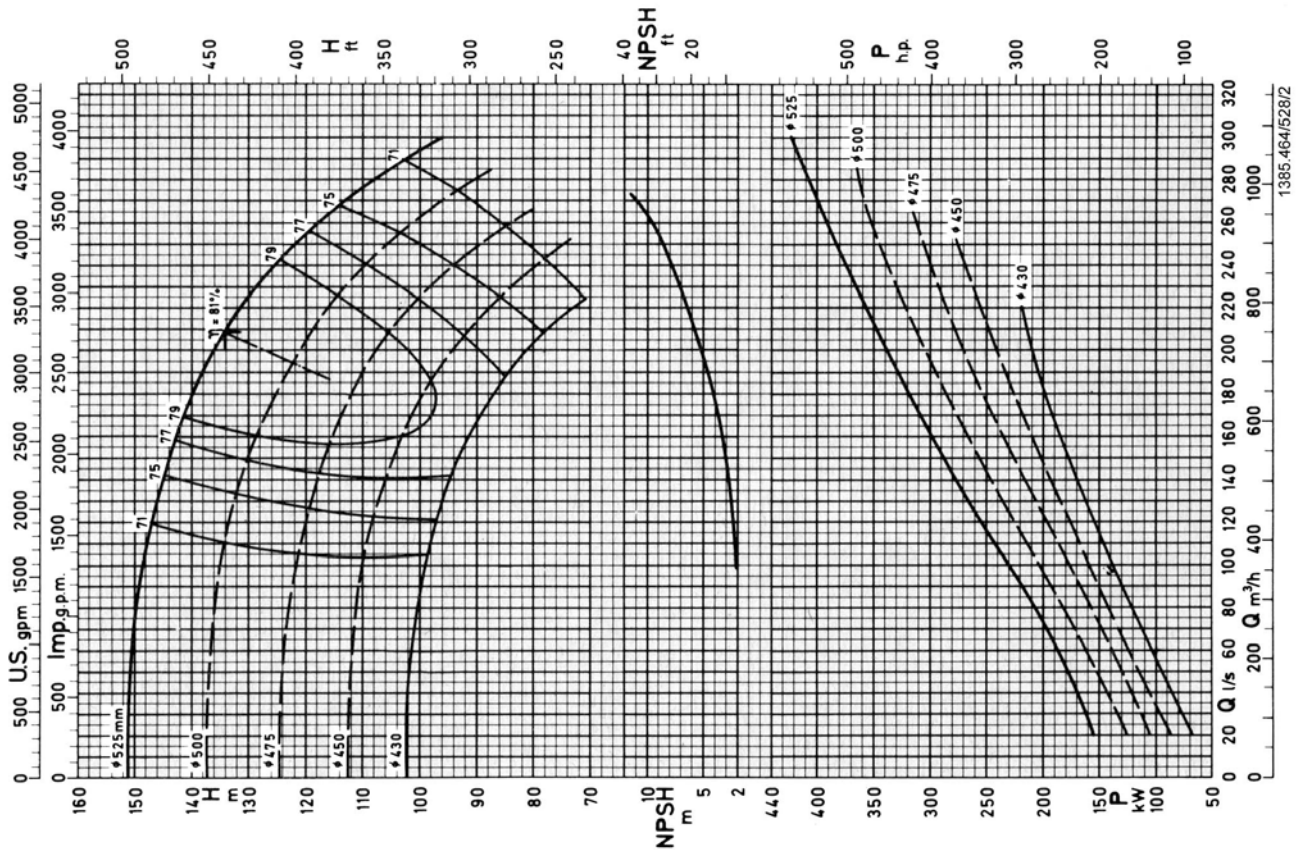
KSB RDL 200-500 B

1750 rpm



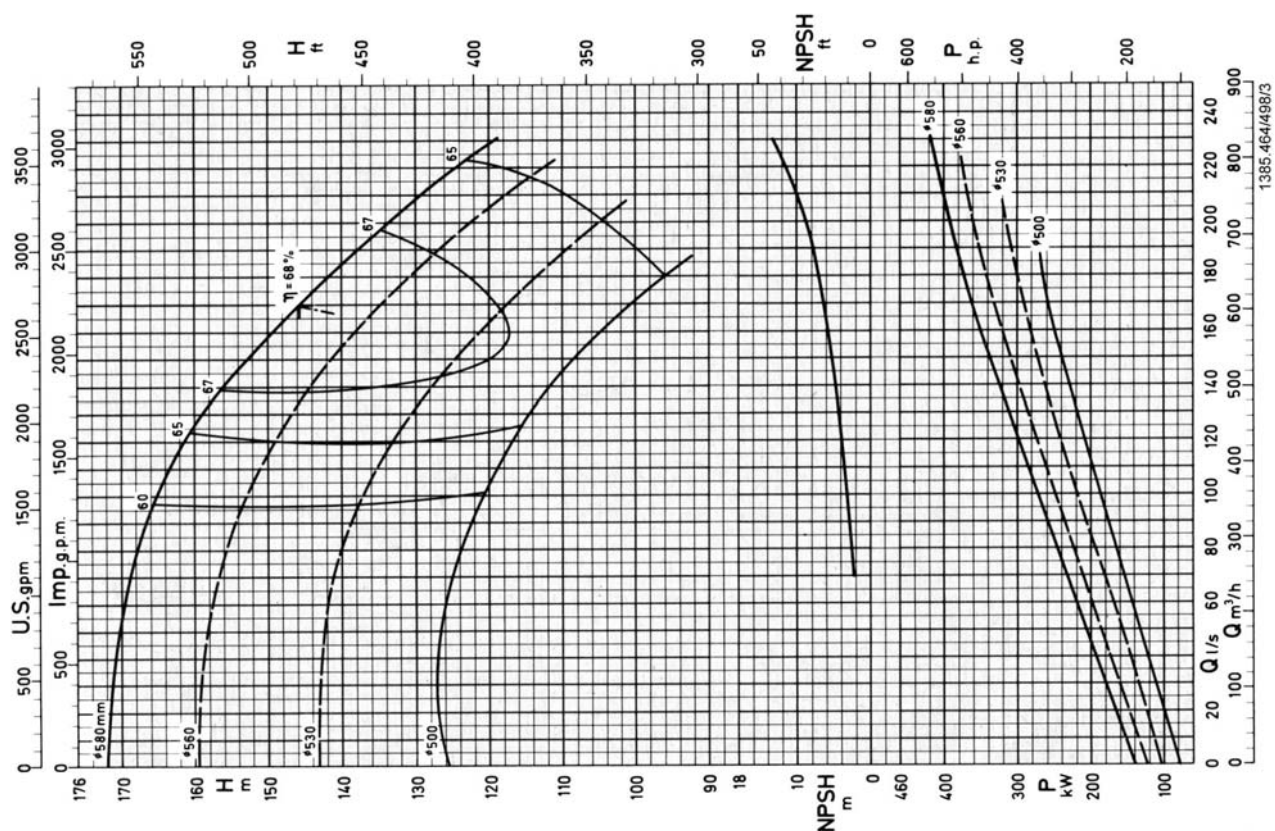
KSB RDL 200-500 A

1750 rpm



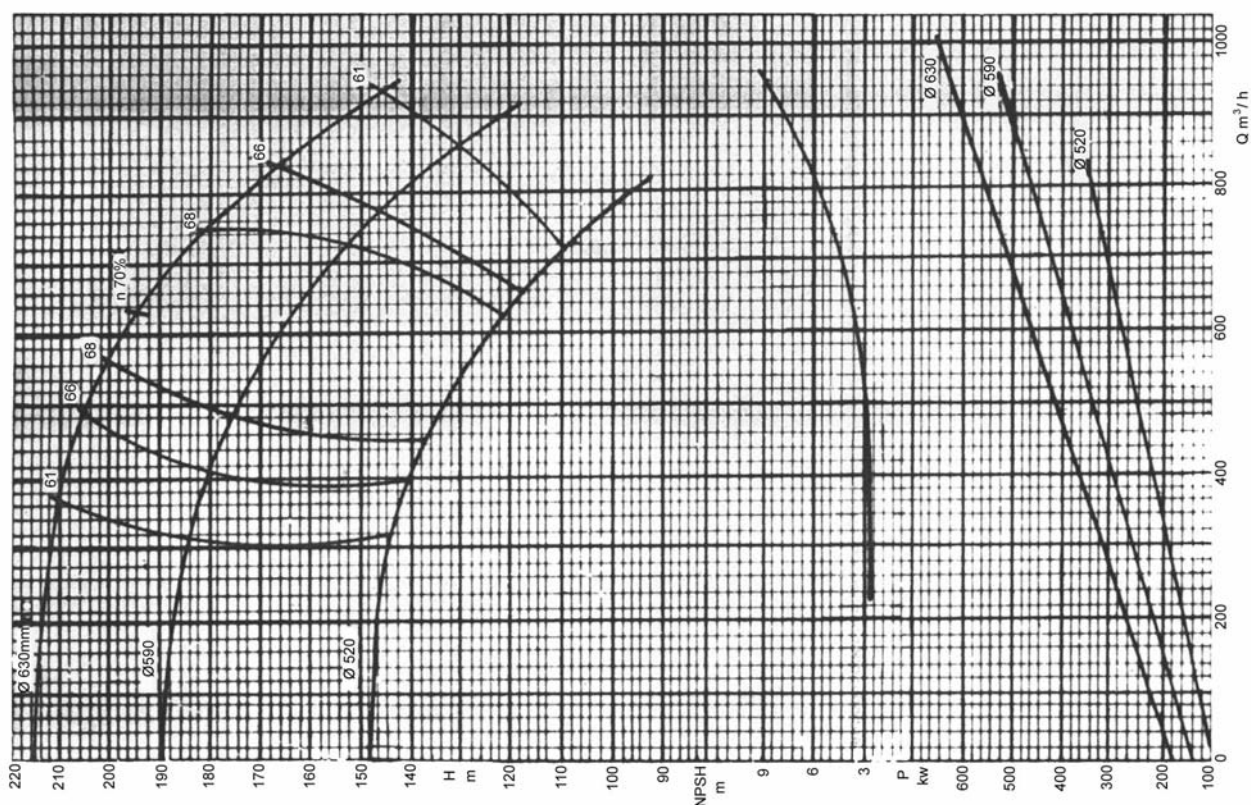
Data applies to a density of 1 kg/dm^3 and Kinematical viscosity up to $20 \text{ mm}^2/\text{s}$

Performance Tolerance according to ISO 9906 Grade 2B



KSB RDL 200-620 A

1750 rpm



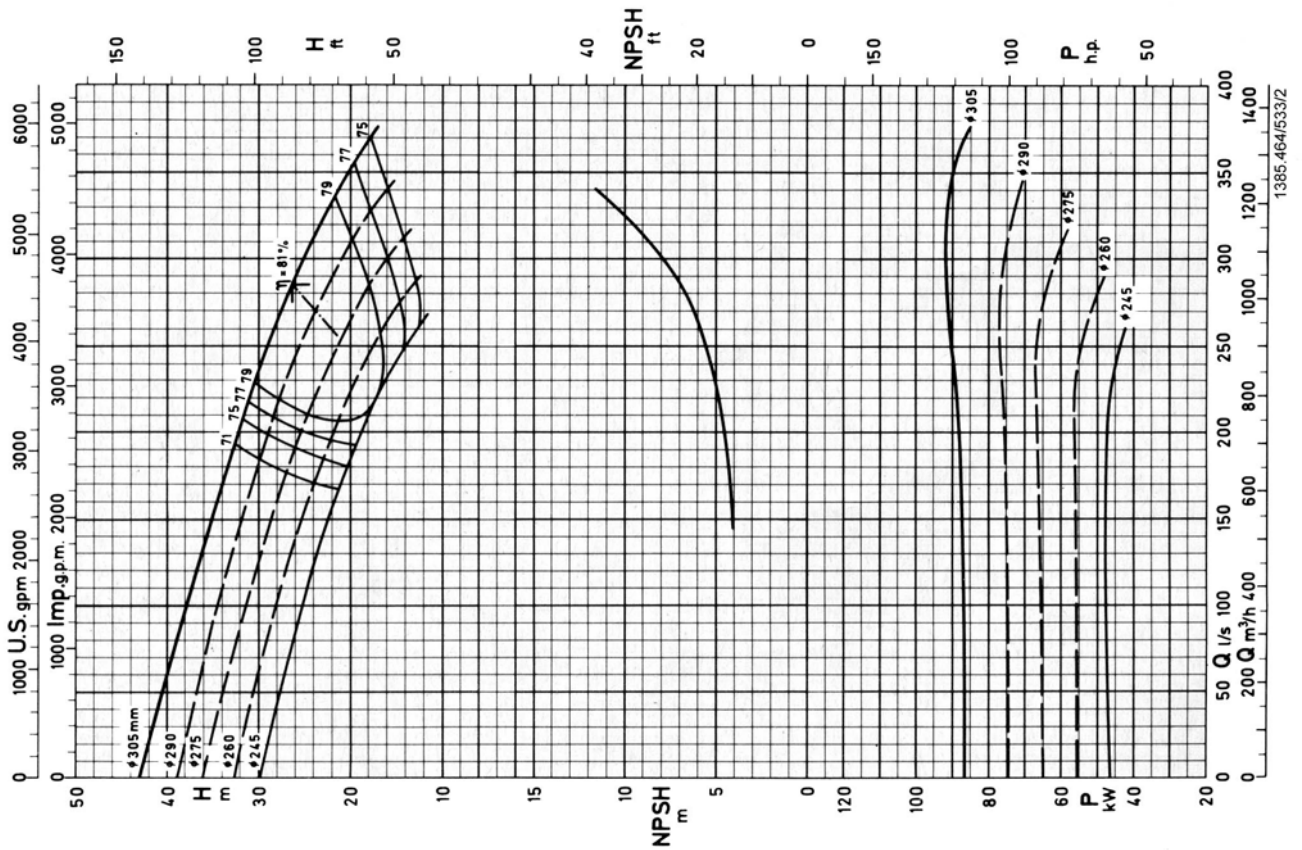
K1385.464-B-042

Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

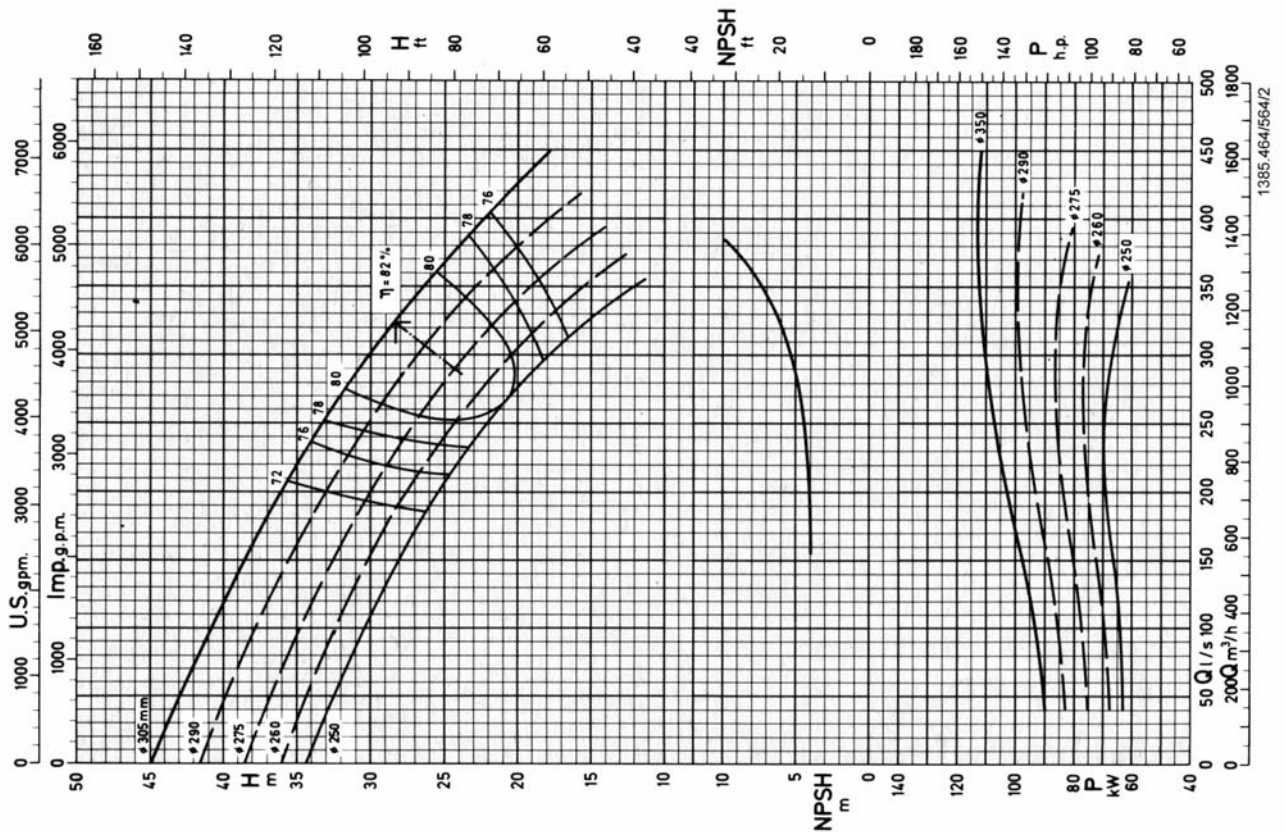
KSB RDL 250-280 B

1750 rpm



KSB RDL 250-280 A

1750 rpm

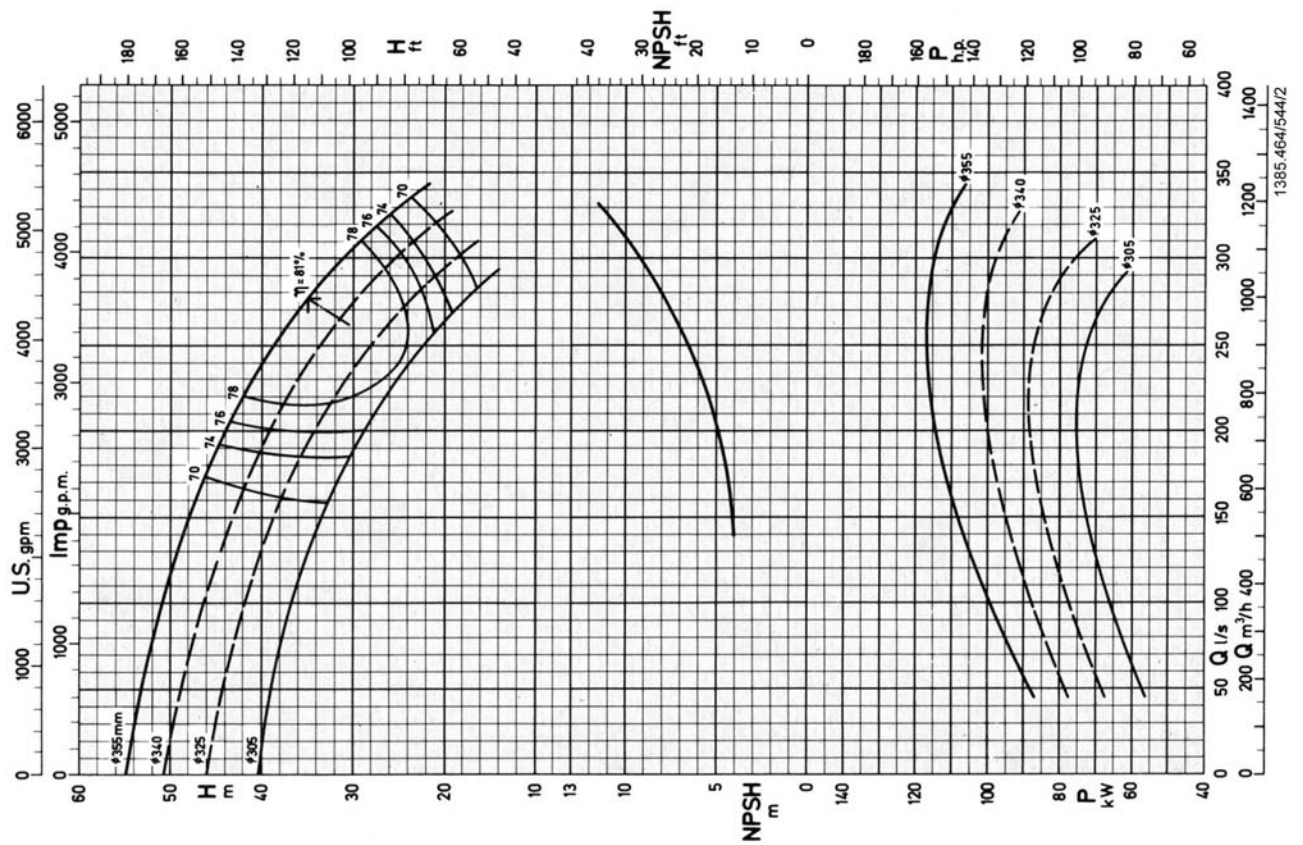


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

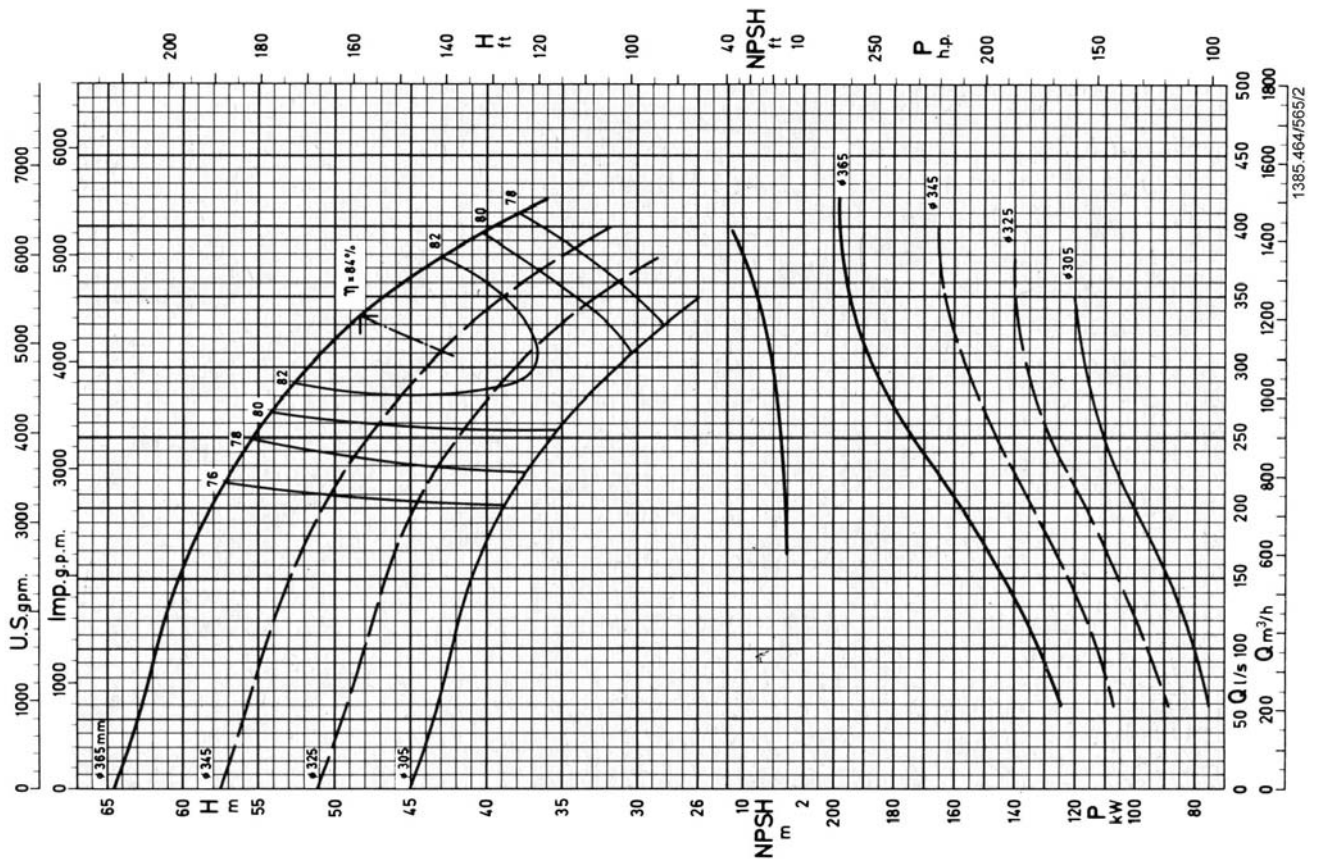
KSB RDL 250-340 B

1750 rpm



KSB RDL 250-340 A

1750 rpm

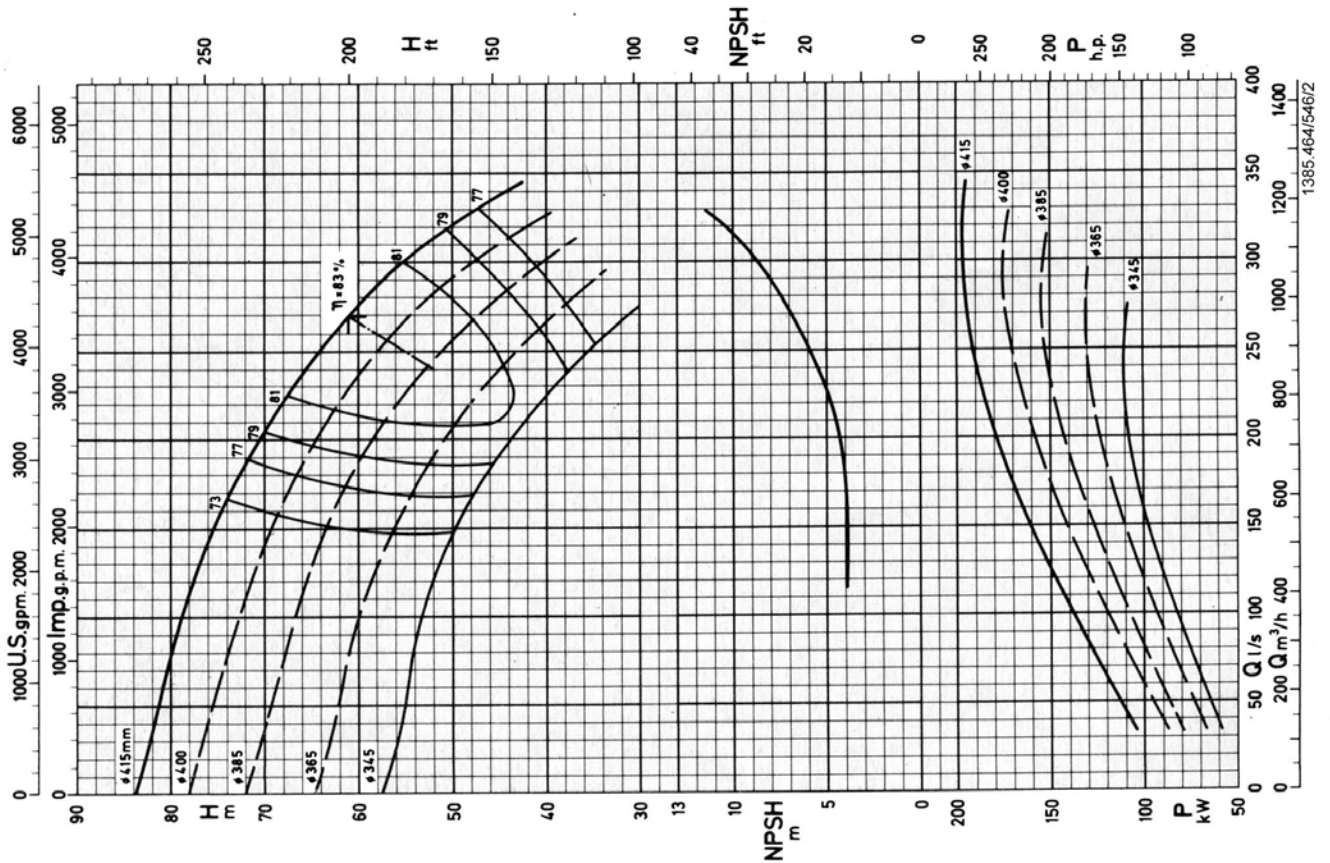


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

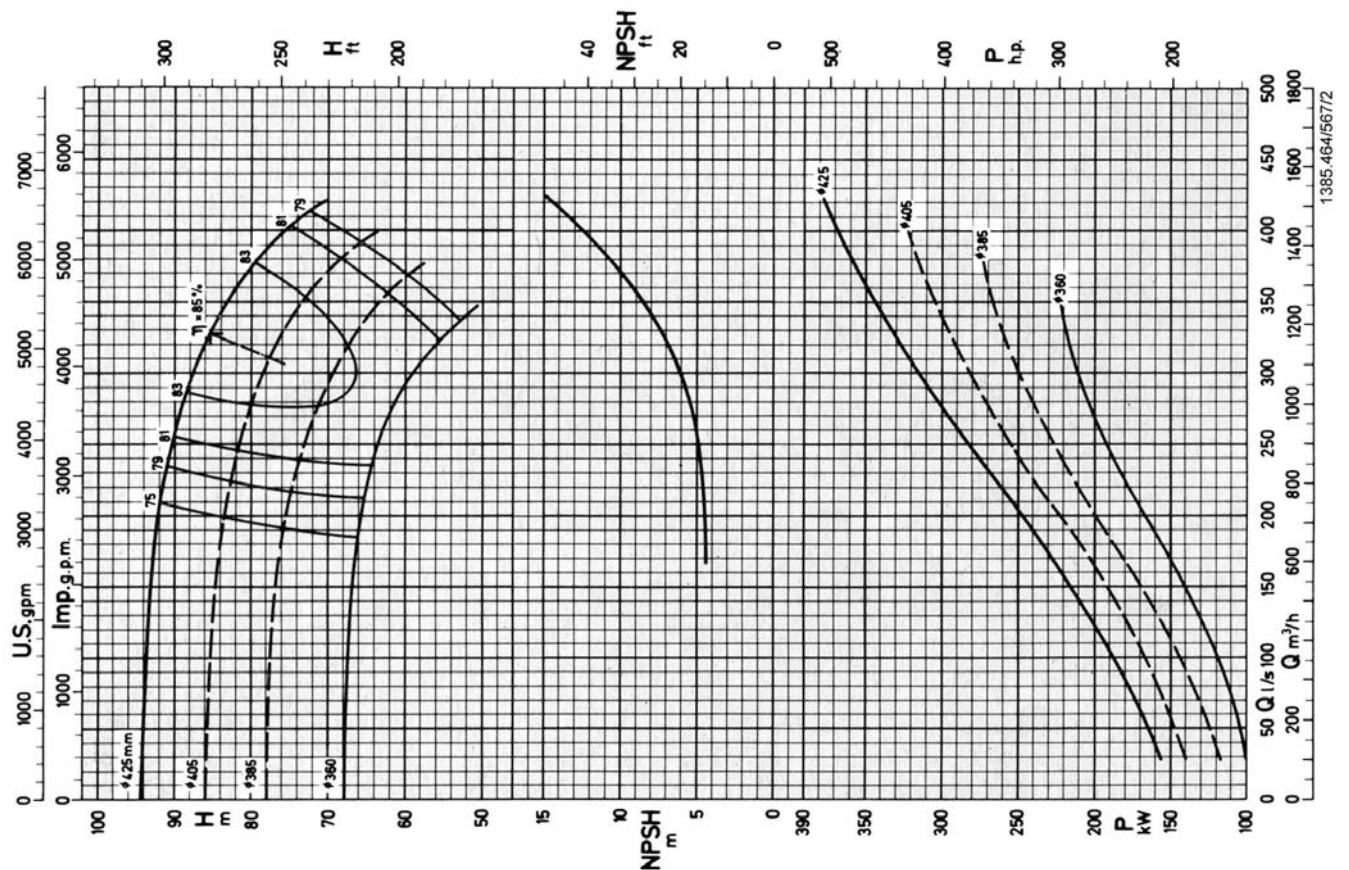
KSB RDL 250-400 B

1750 rpm



KSB RDL 250-400 A

1750 rpm

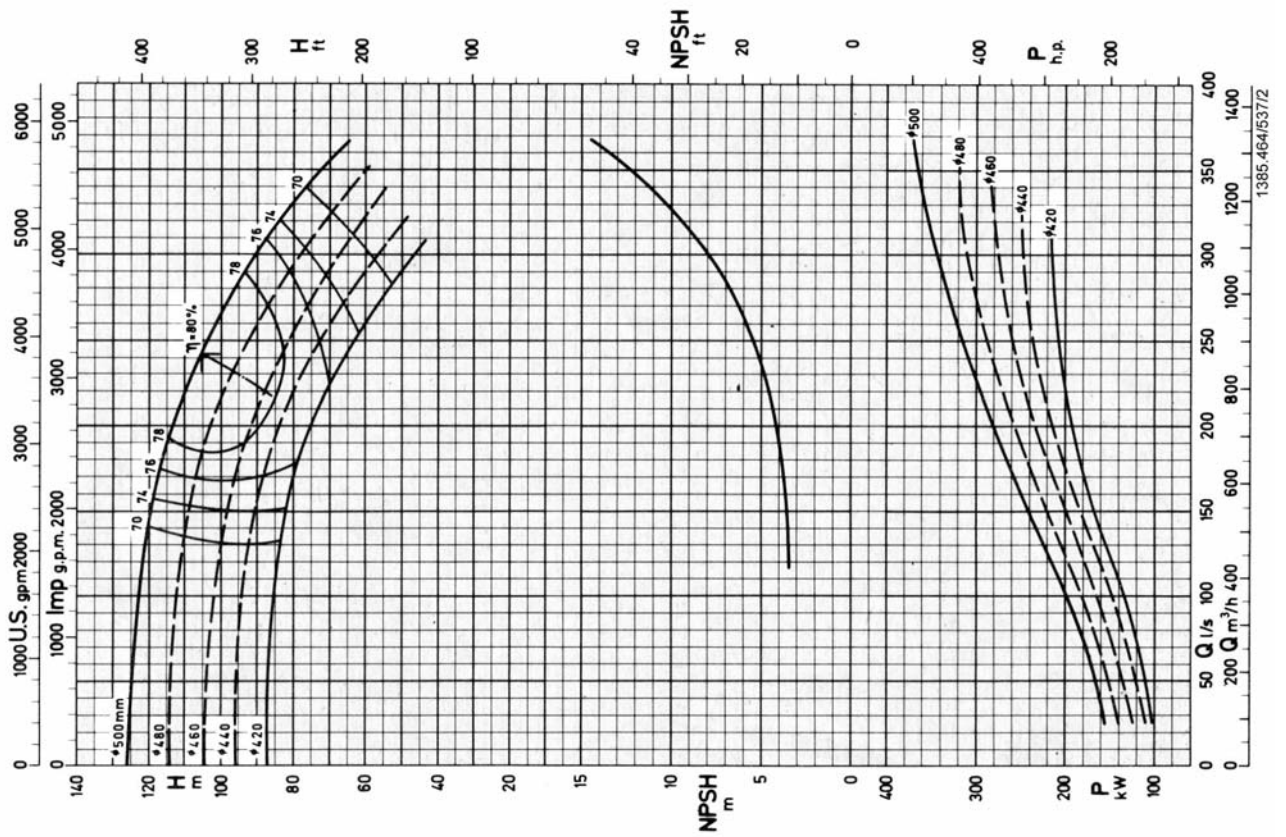


Data applies to a density of $1\ kg/dm^3$ and Kinematical viscosity up to $20\ mm^2/s$

Performance Tolerance according to ISO 9906 Grade 2B

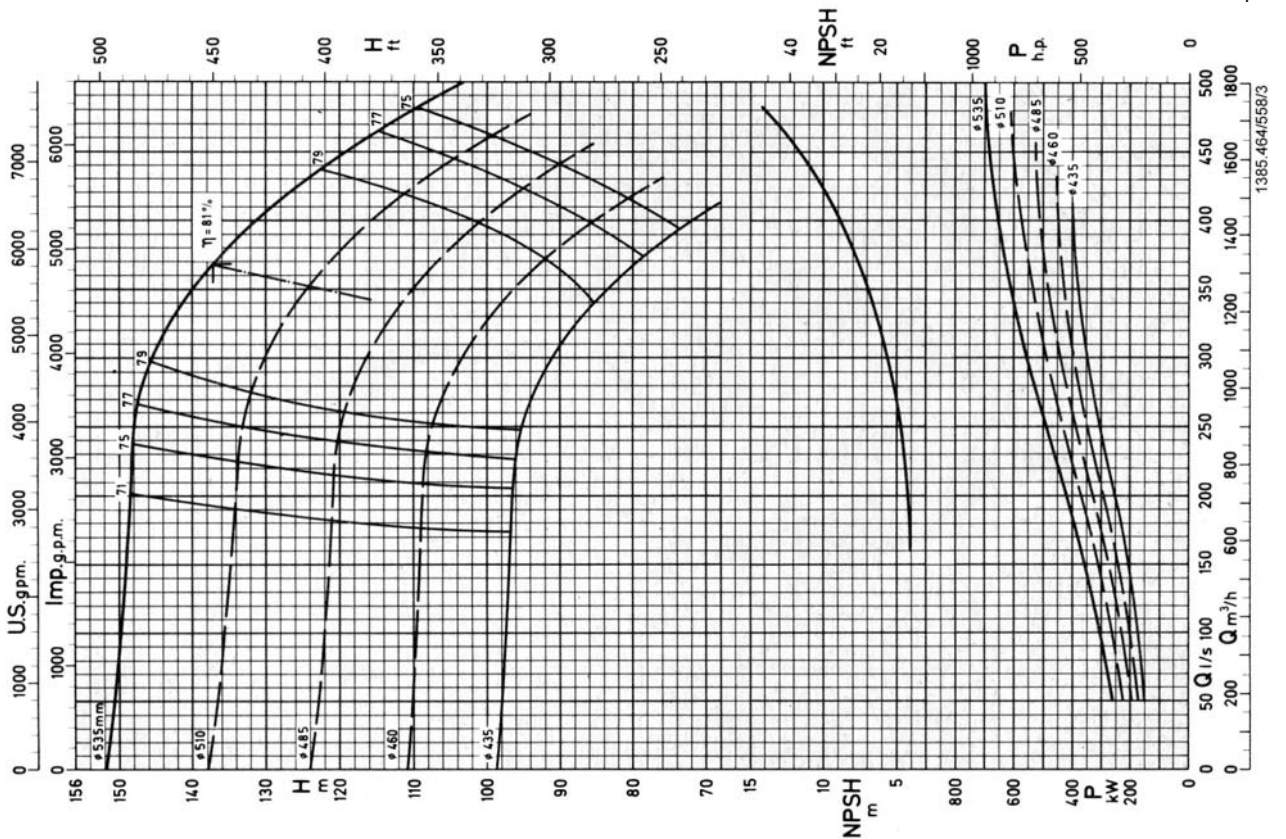
KSB RDL 250-500 B

1750 rpm



KSB RDL 250-500 A

1750 rpm

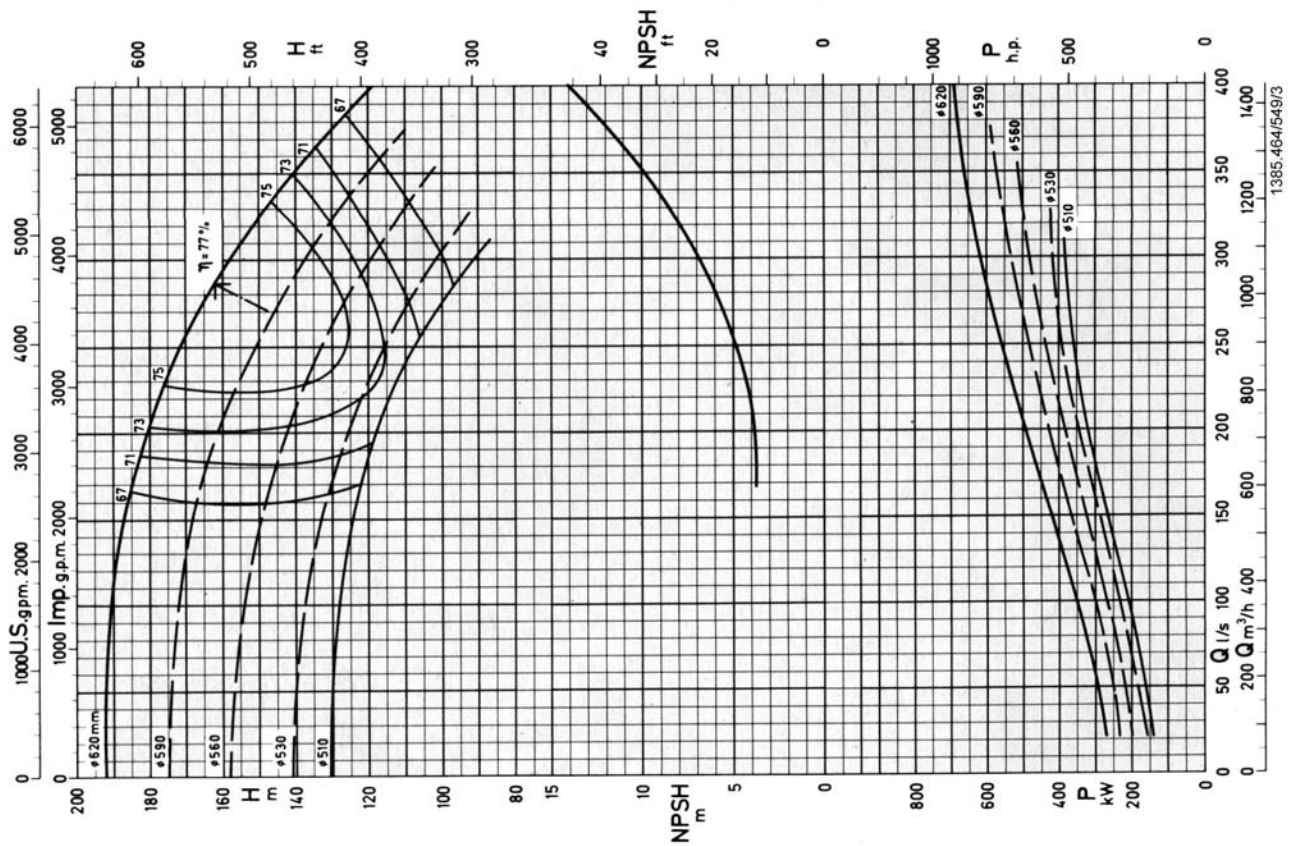


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

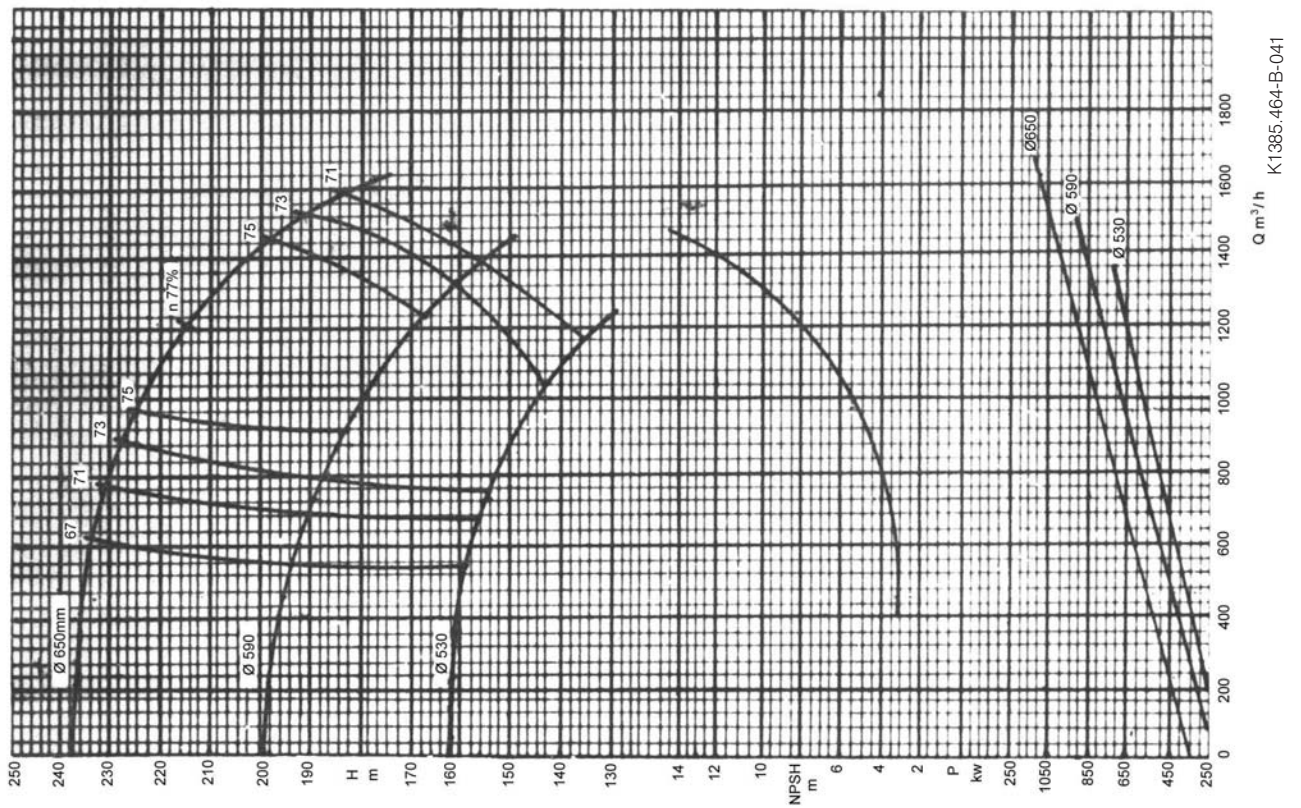
KSB RDL 250-620 B

1750 rpm



KSB RDL 250-620 A

1750 rpm

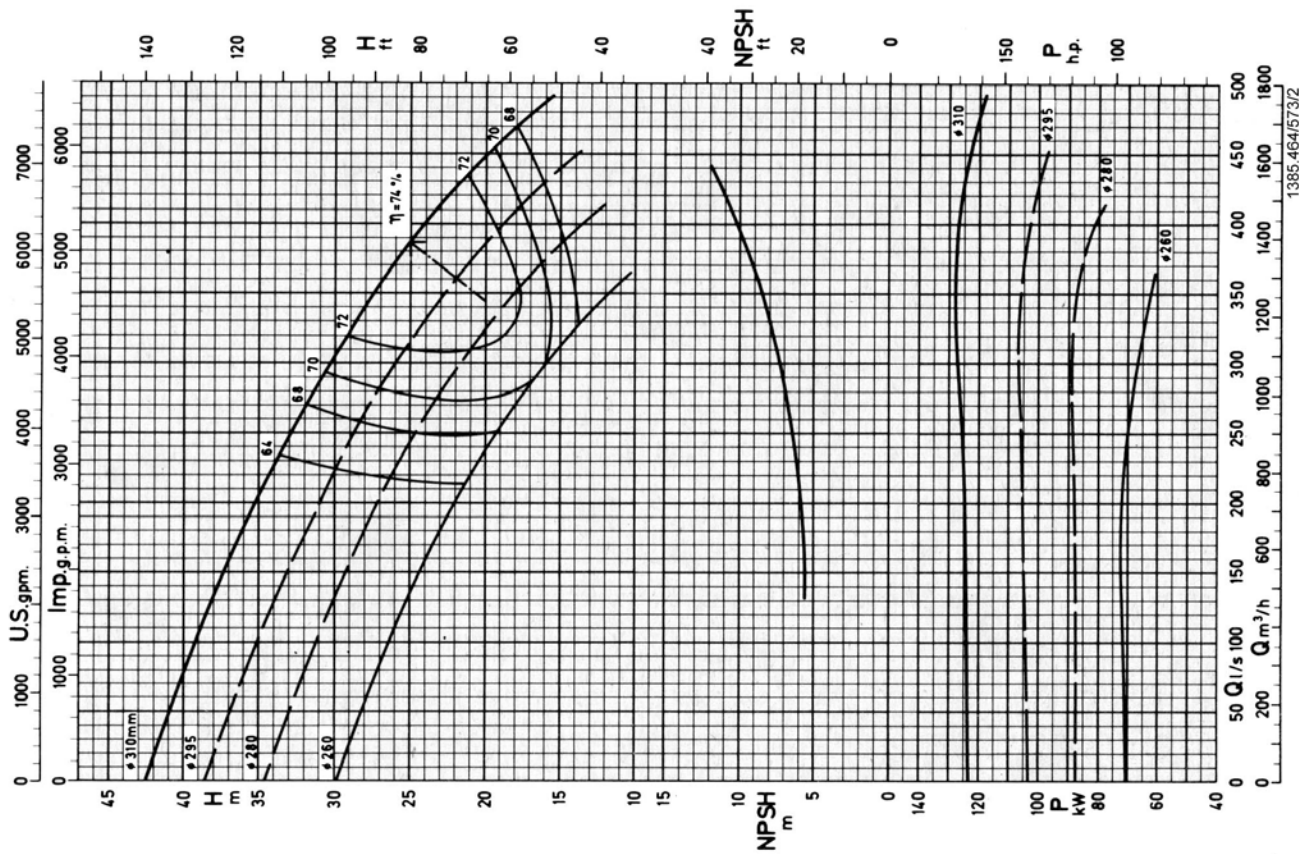


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

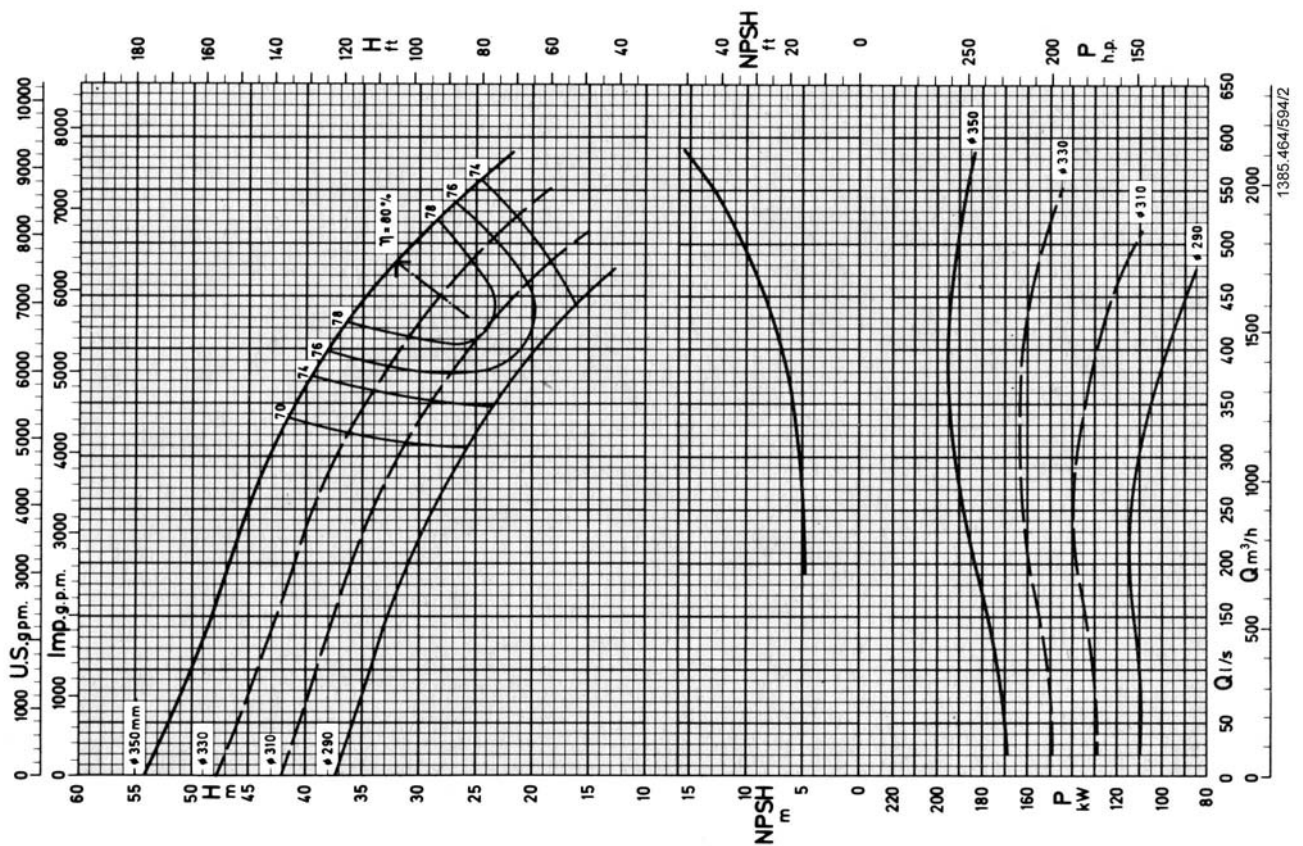
KSB RDL 300-280 B

1750 rpm



KSB RDL 300-280 A

1750 rpm

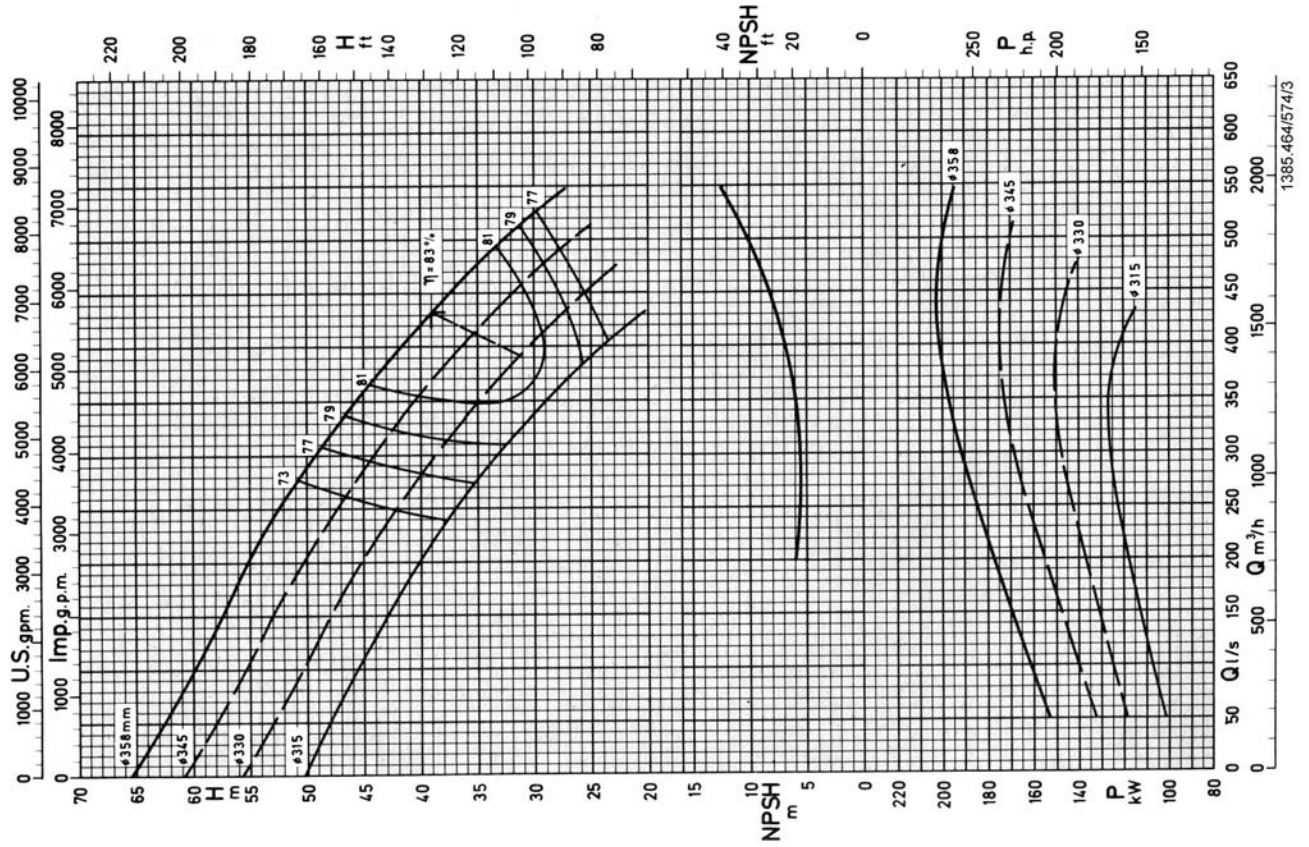


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

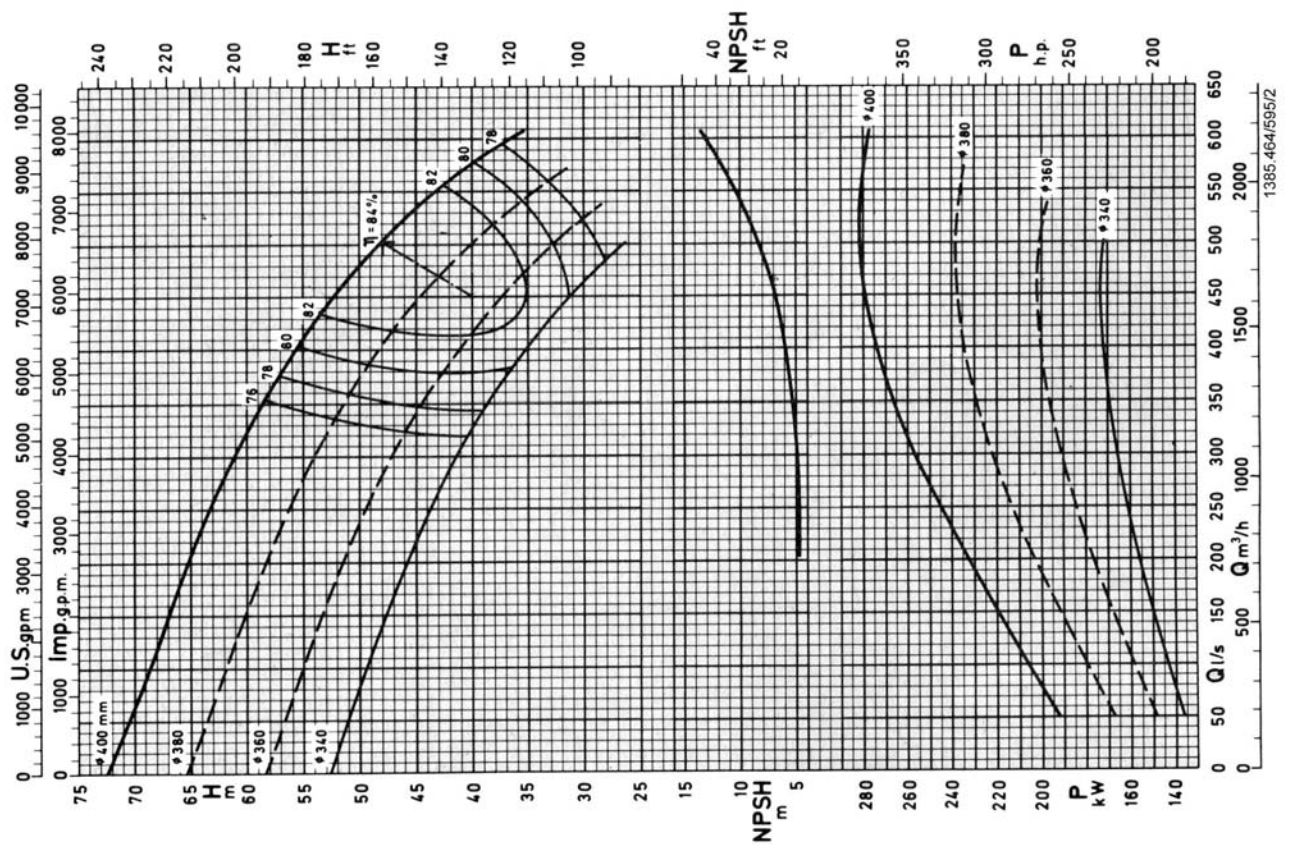
KSB RDL 300-340 B

1750 rpm



KSB RDL 300-340 A

1750 rpm

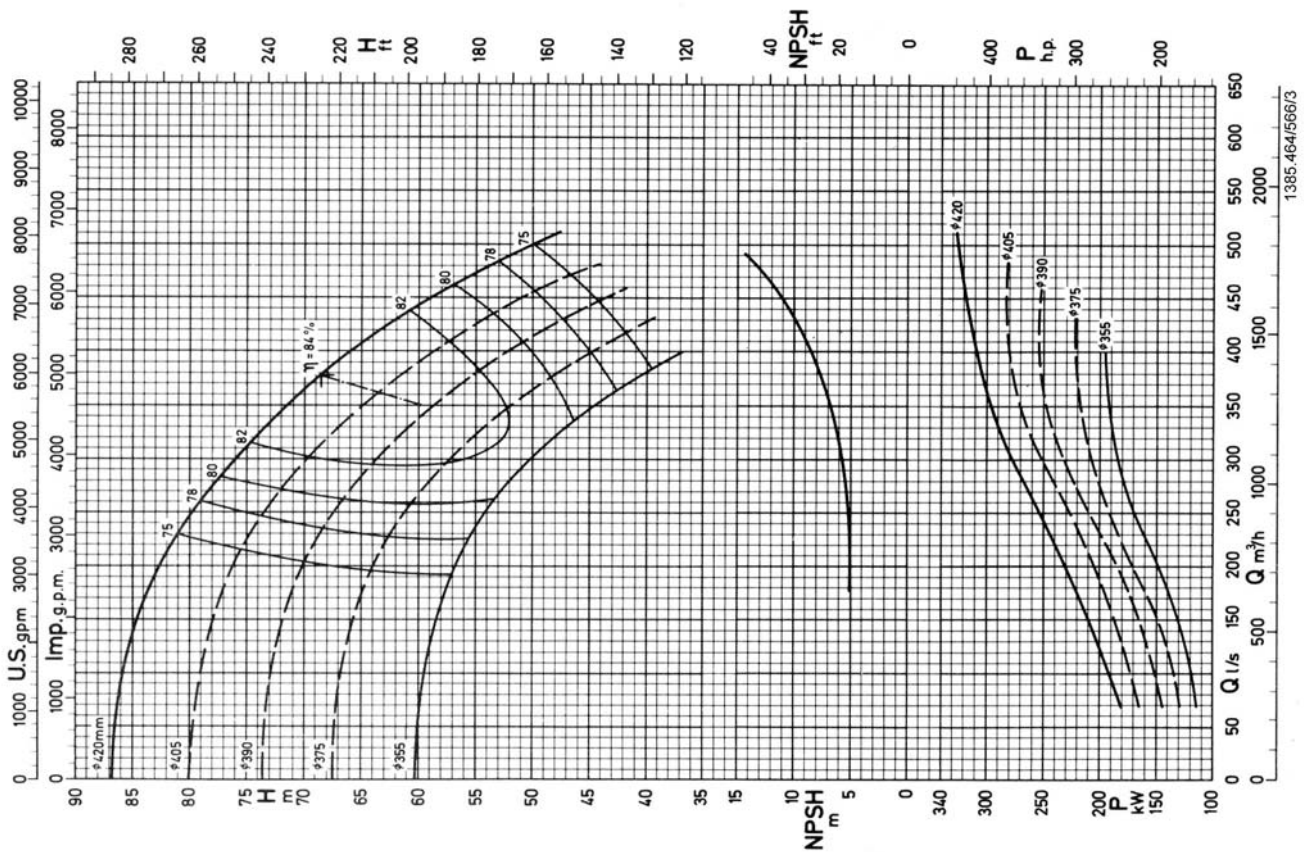


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

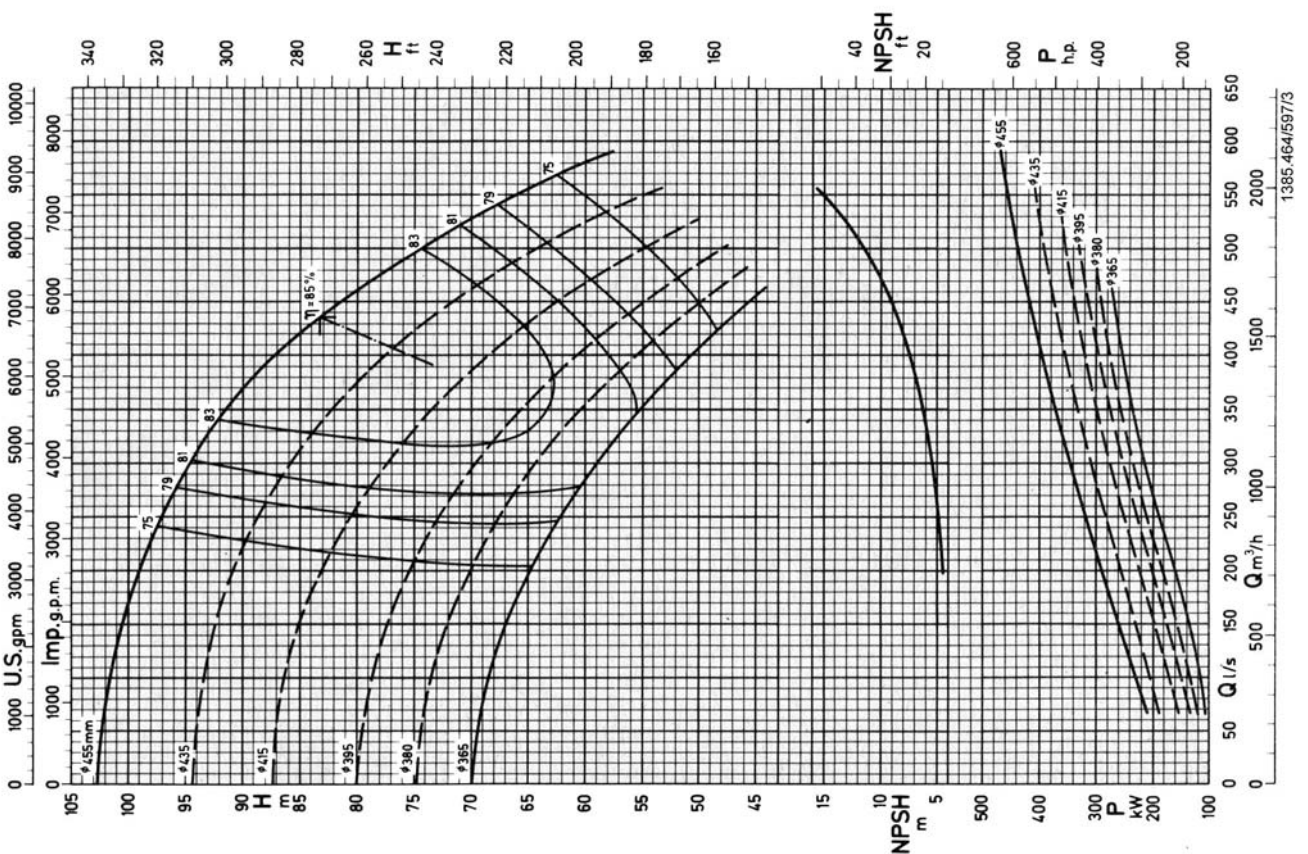
KSB RDL 300-400 B

1750 rpm



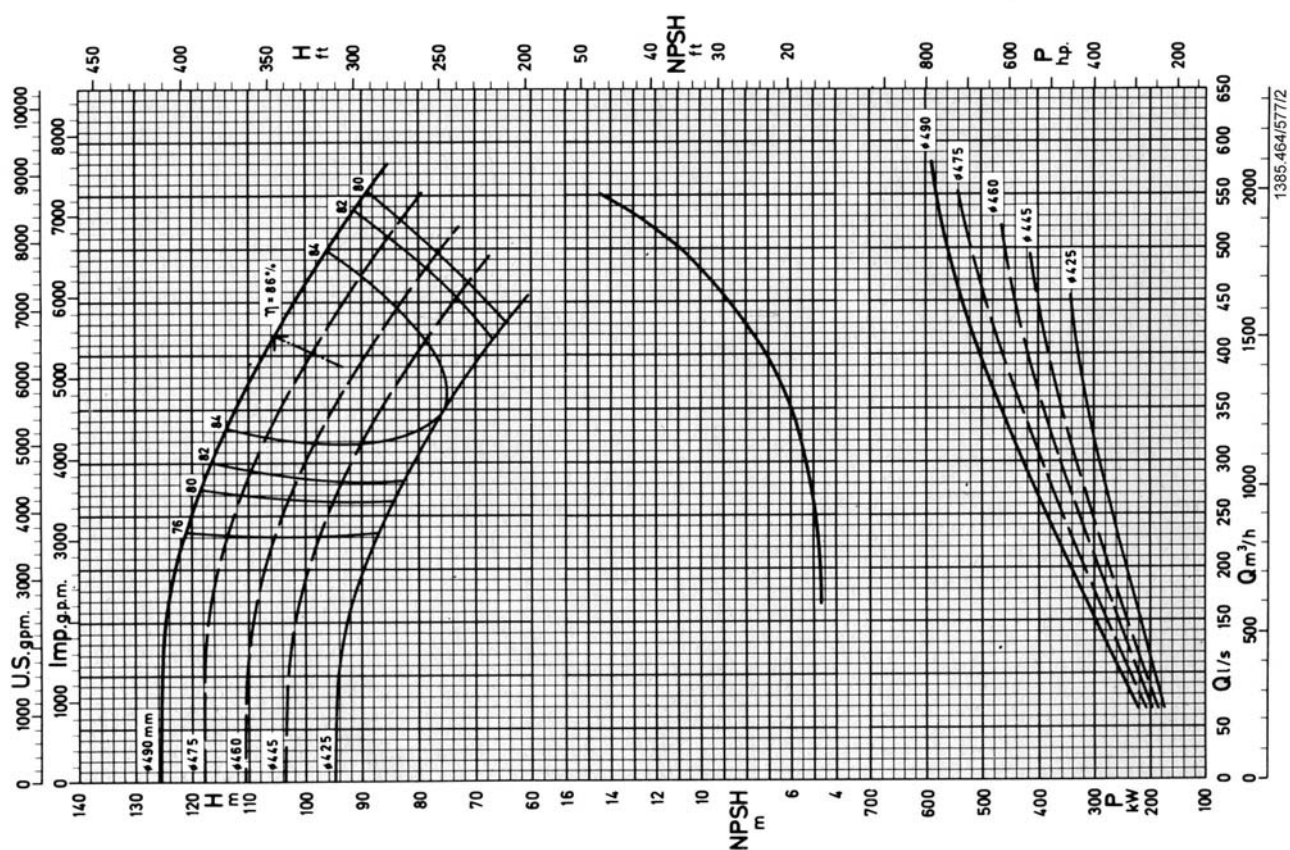
KSB RDL 300-400 A

1750 rpm

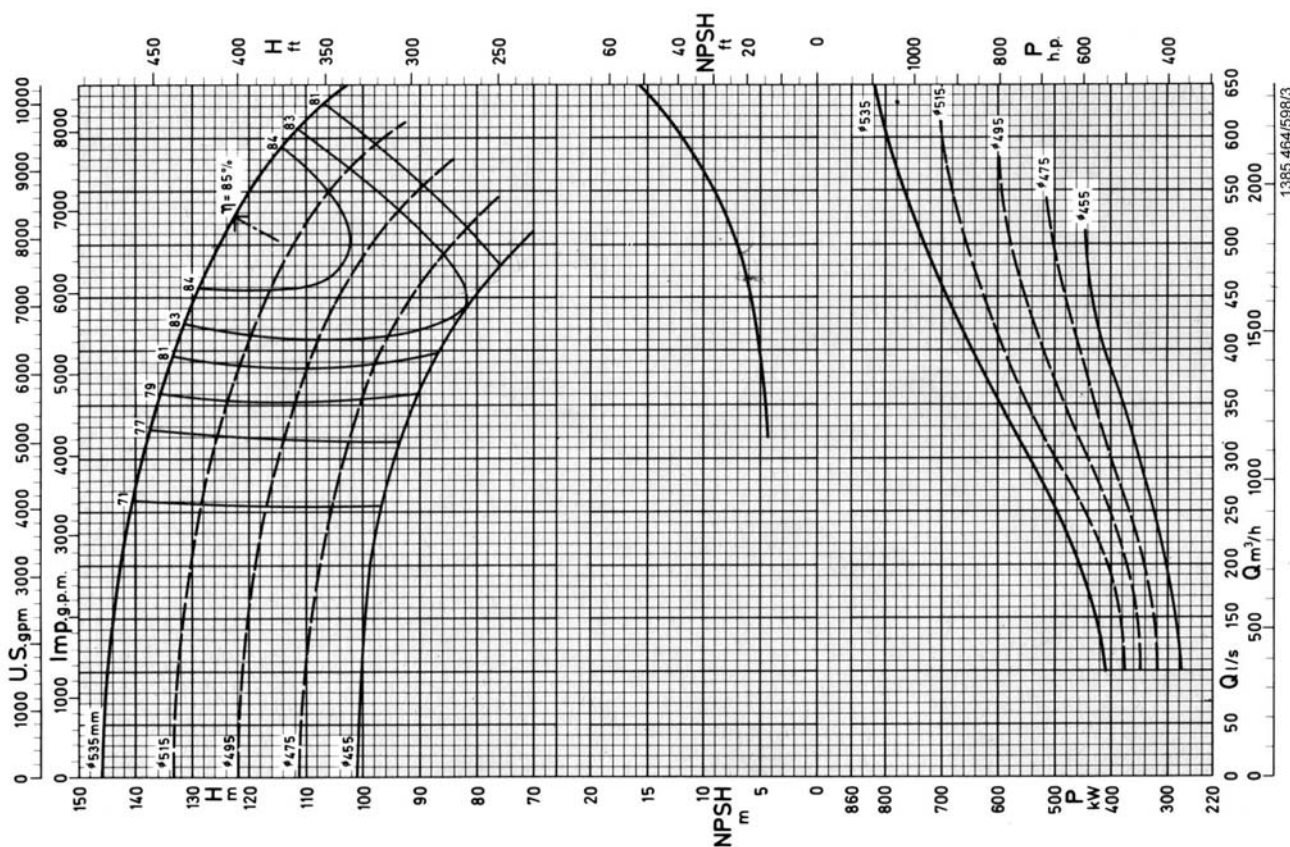


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B



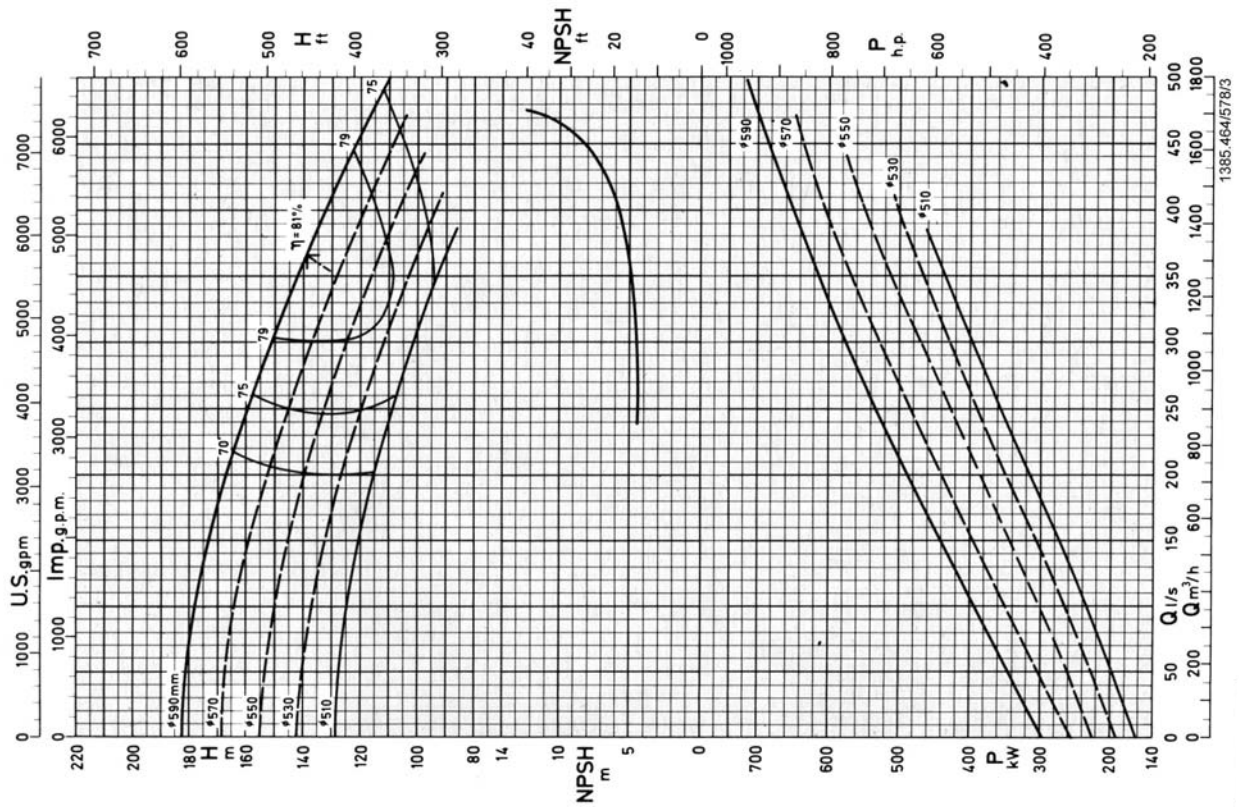
1750 rpm



Performance Tolerance according to ISO 9906 Grade 2B

KSB RDL 300-620 B

1750 rpm



KSB RDL 300-620 A

1750 rpm

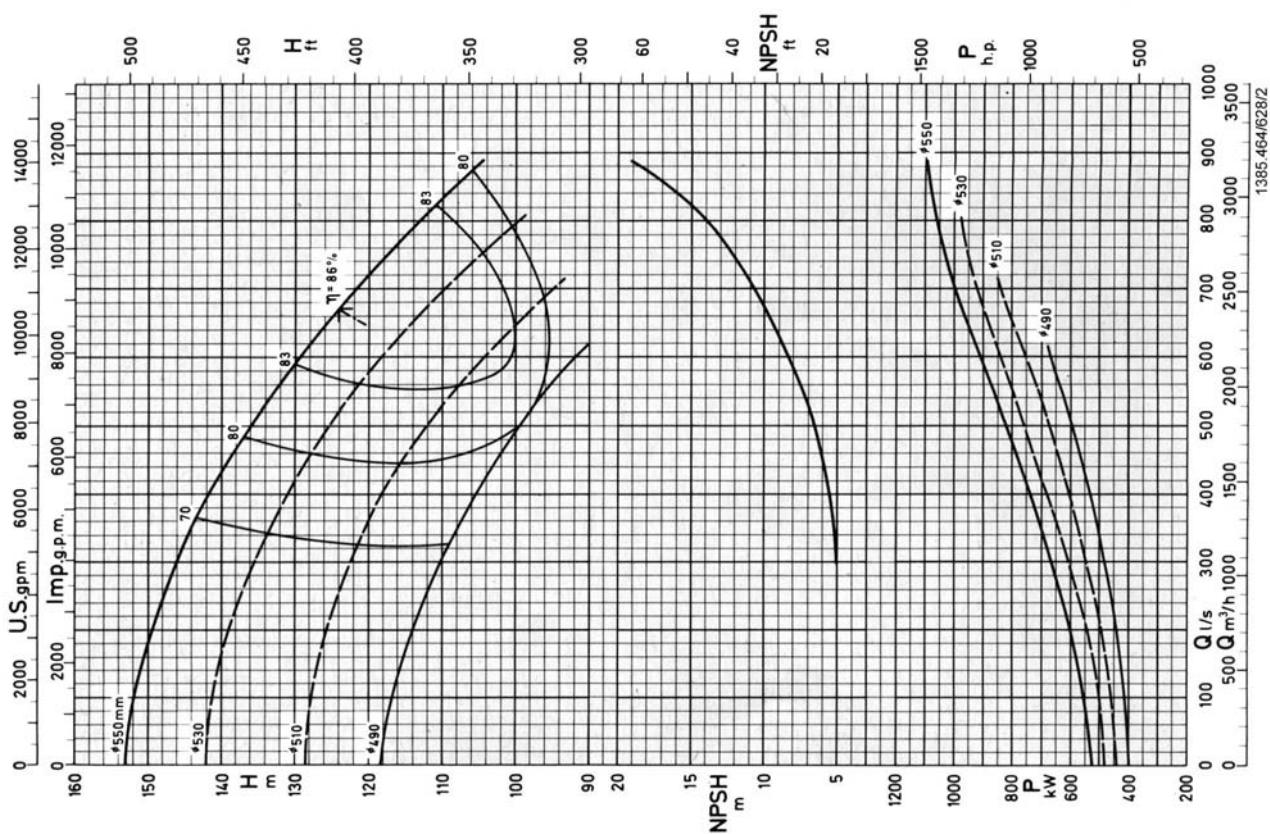


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

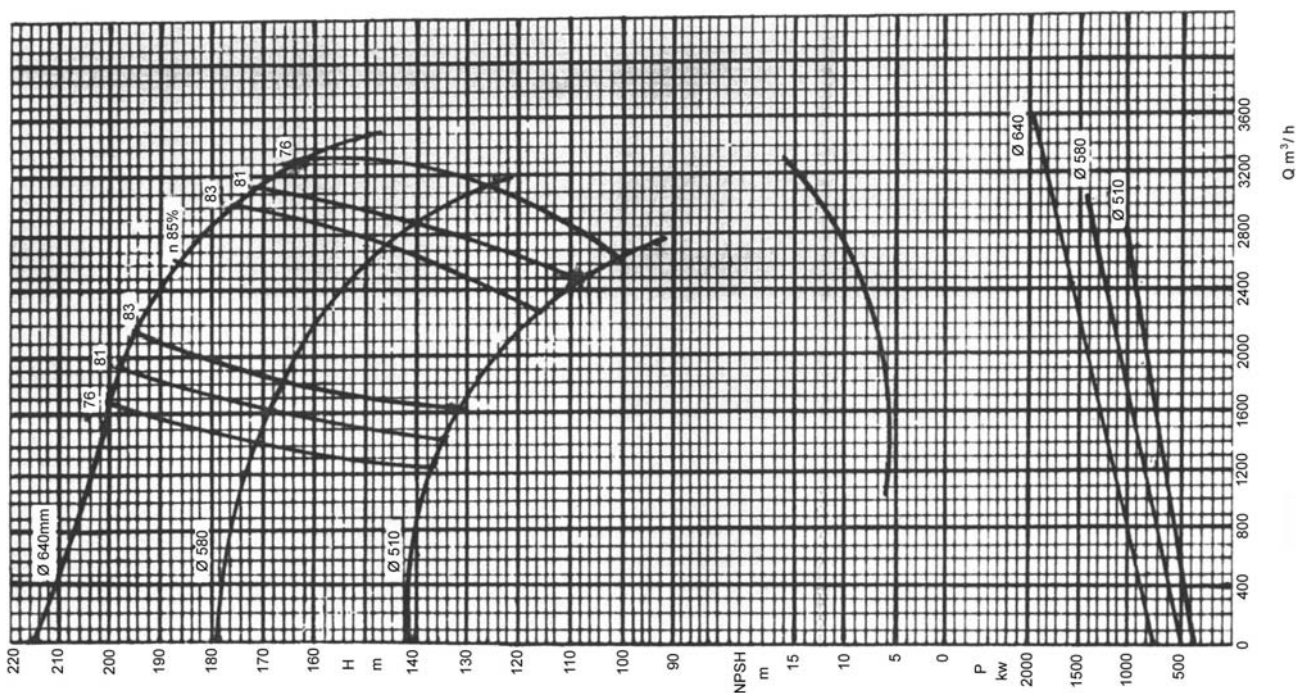
KSB RDL 350-500 A

1750 rpm



KSB RDL 350-620 A

1750 rpm

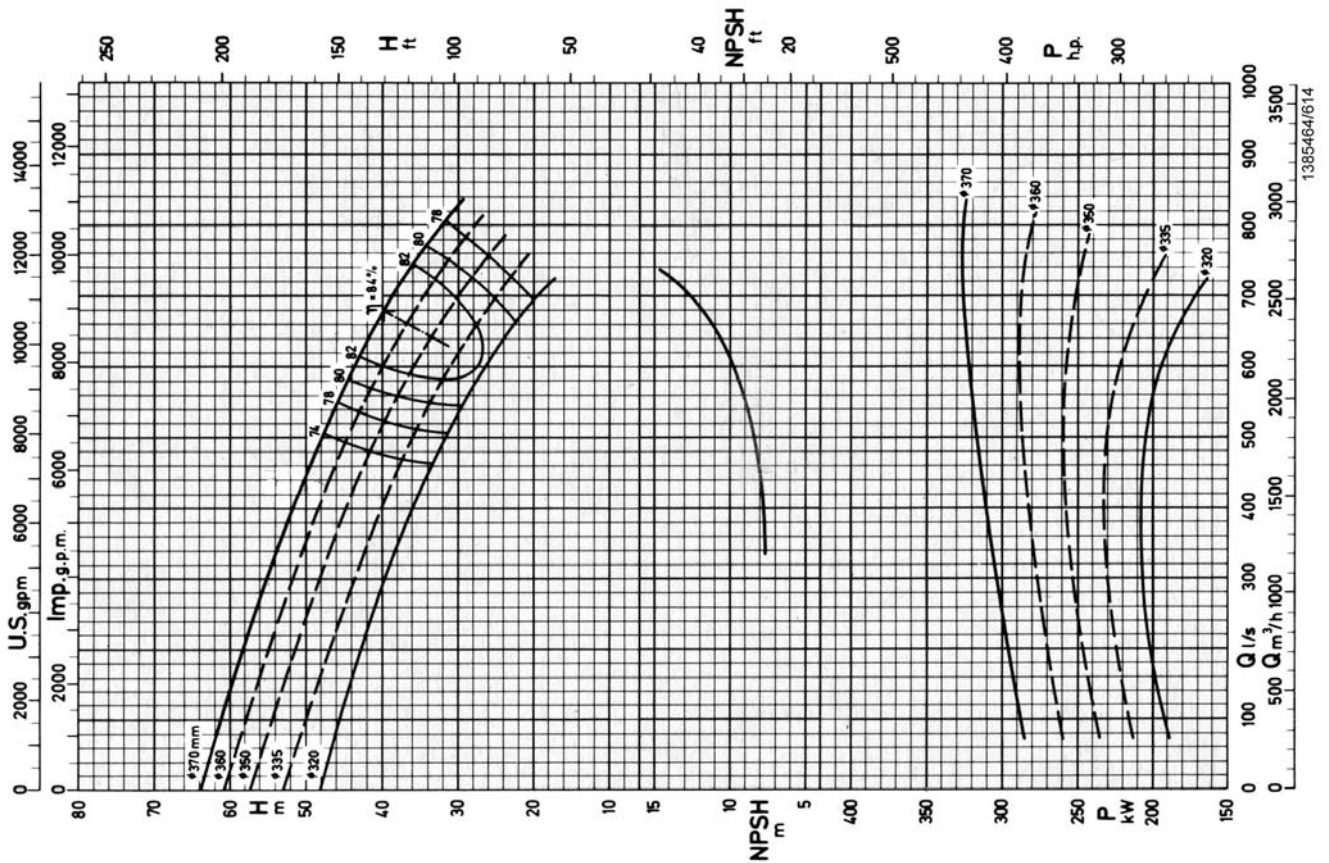


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

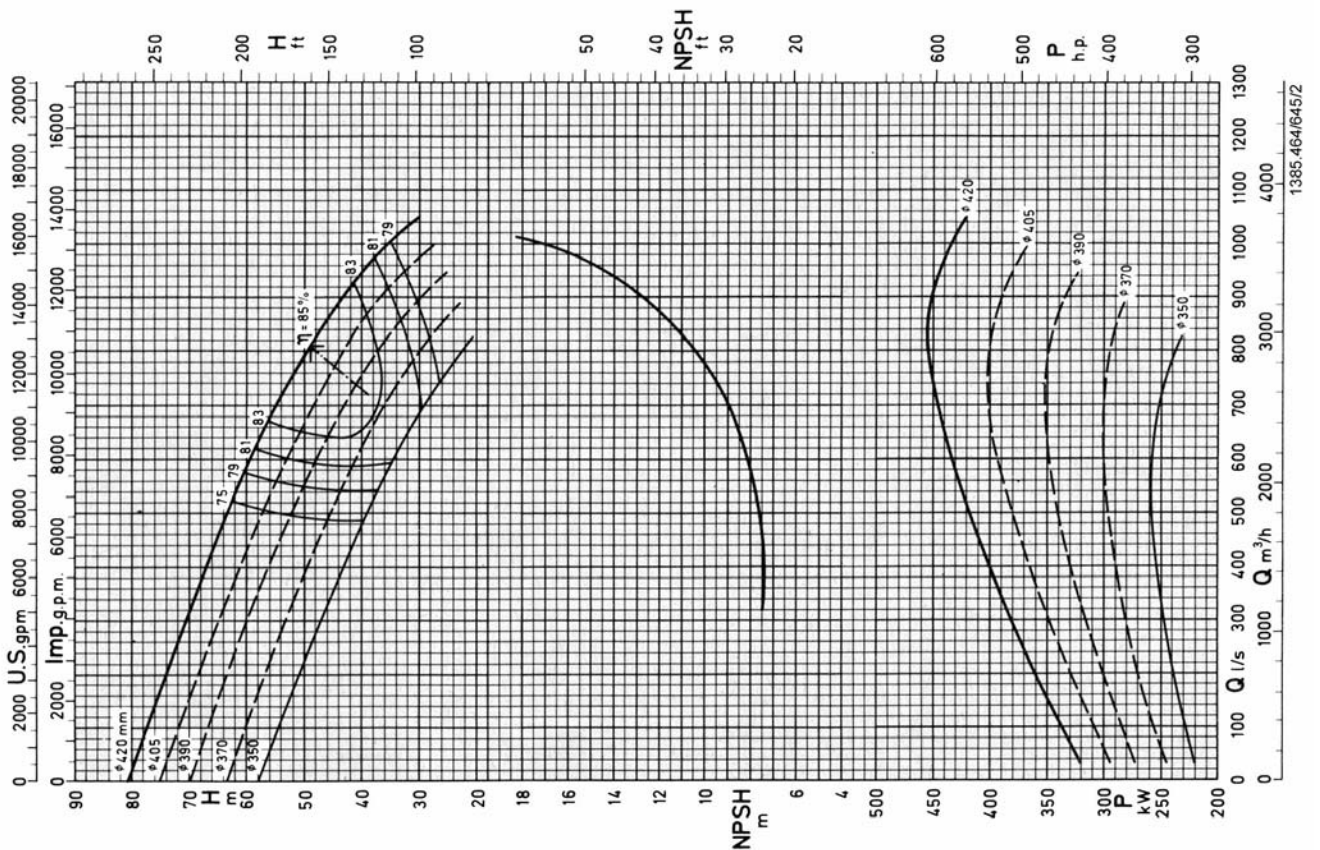
KSB RDL 400-390 B

1750 rpm



KSB RDL 400-390 A

1750 rpm

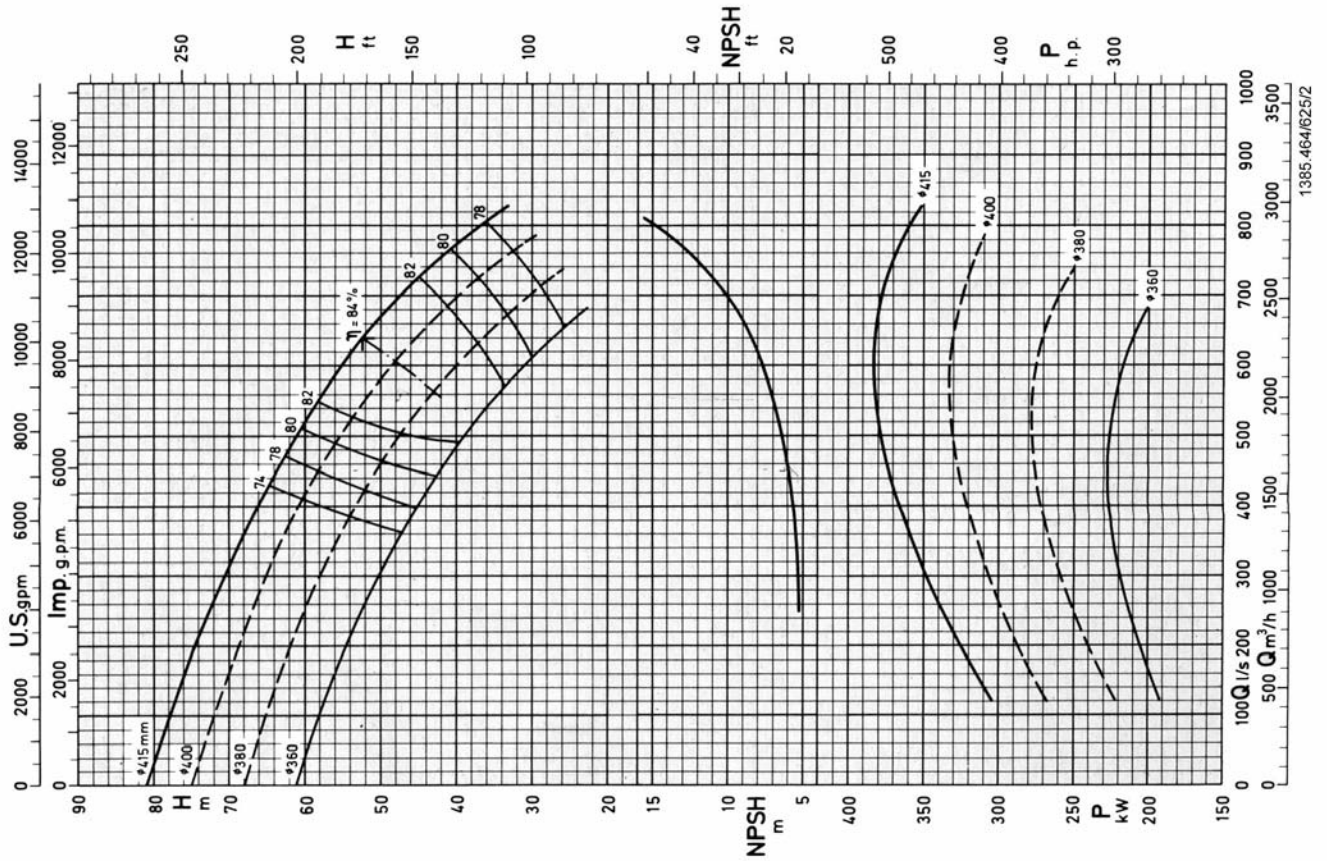


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

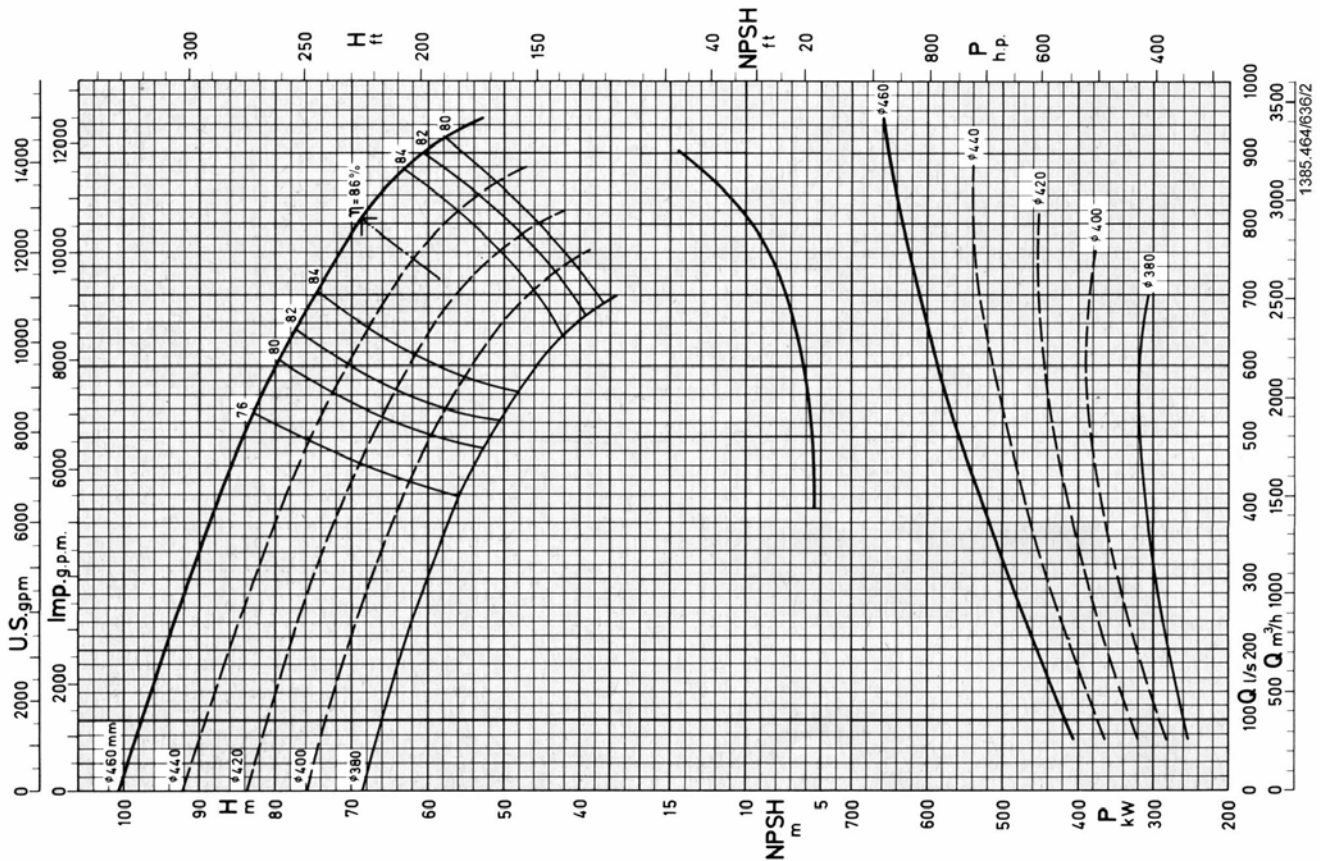
KSB RDL 400-440 B

1750 rpm



KSB RDL 400-440 A

1750 rpm

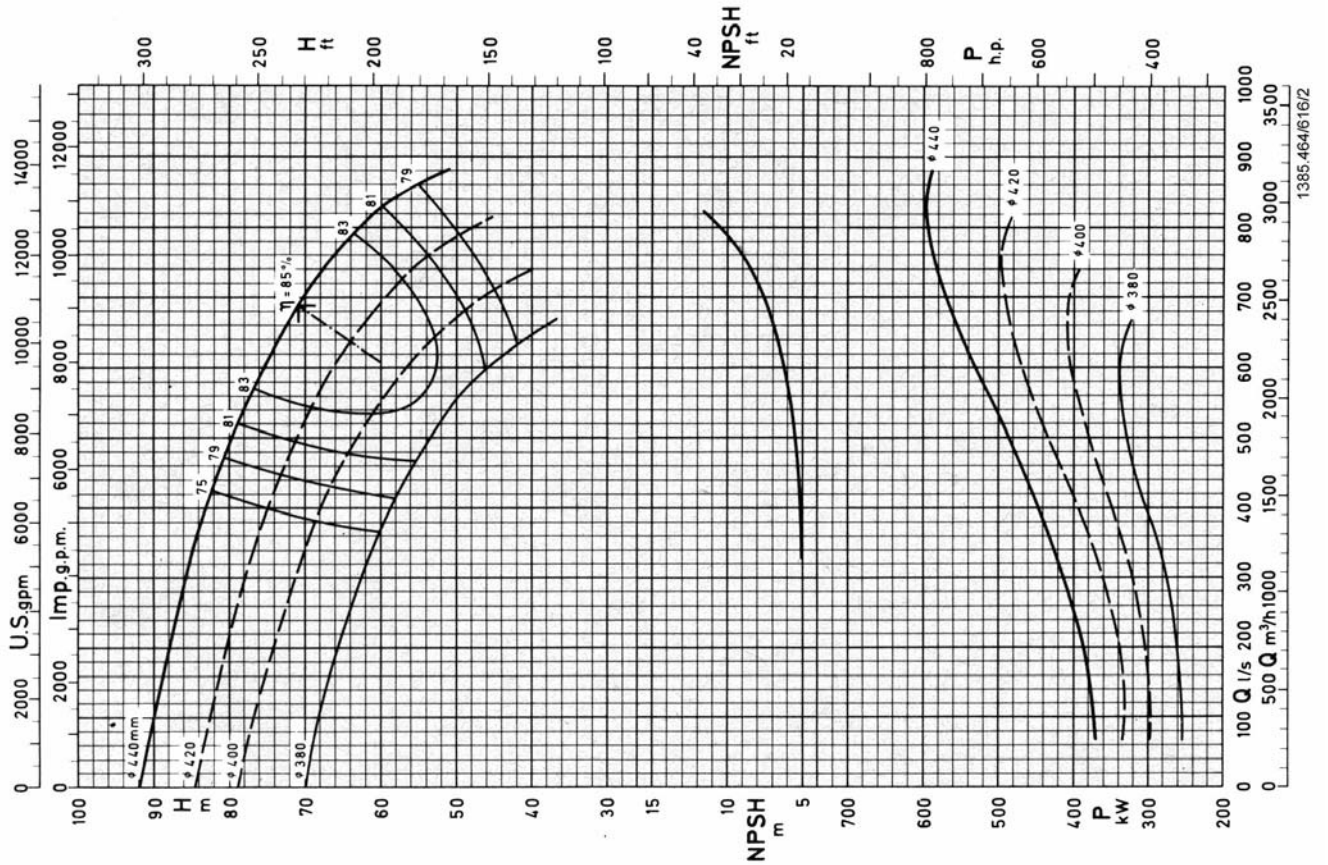


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

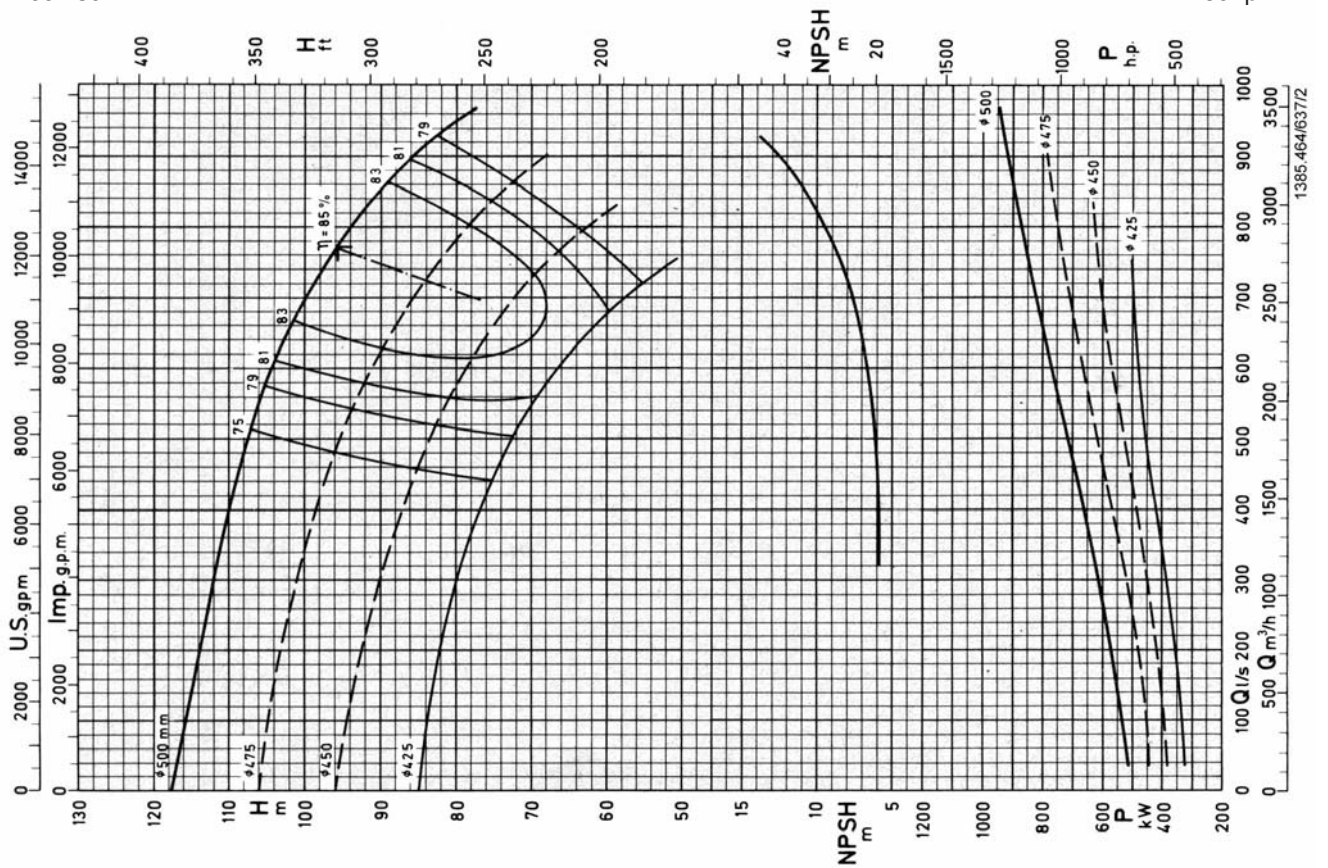
KSB RDL 400-480 B

1750 rpm



KSB RDL 400-480 A

1750 rpm

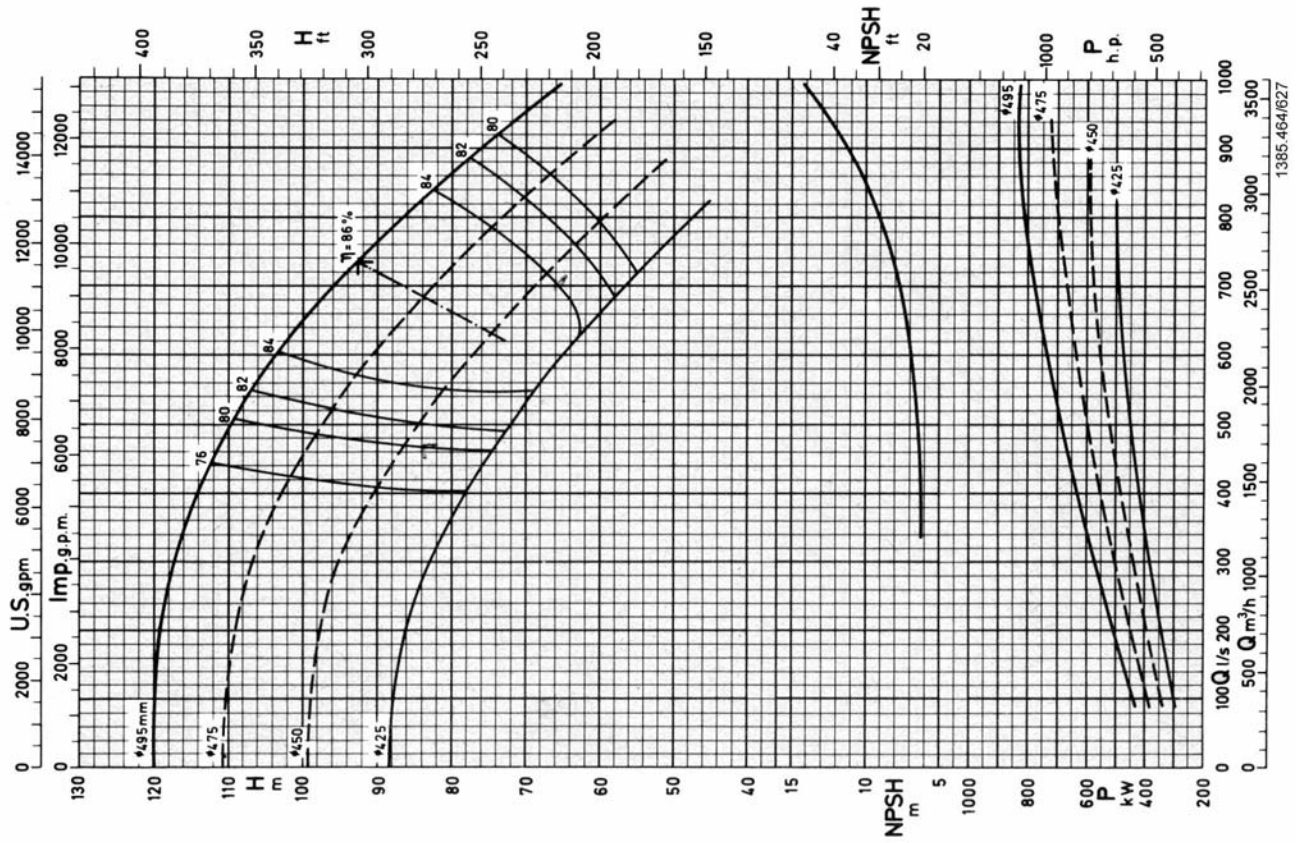


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

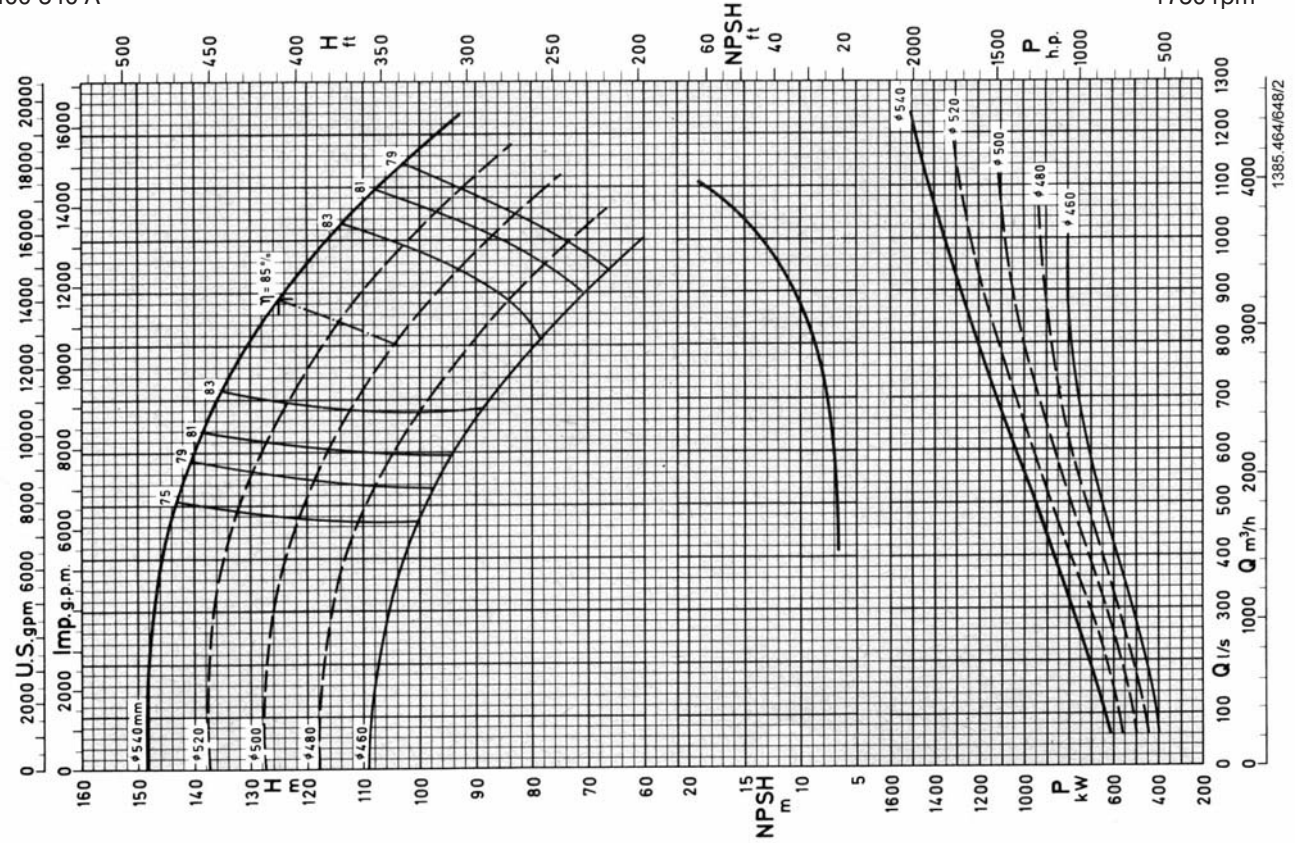
KSB RDL 400-540 B

1750 rpm



KSB RDL 400-540 A

1750 rpm

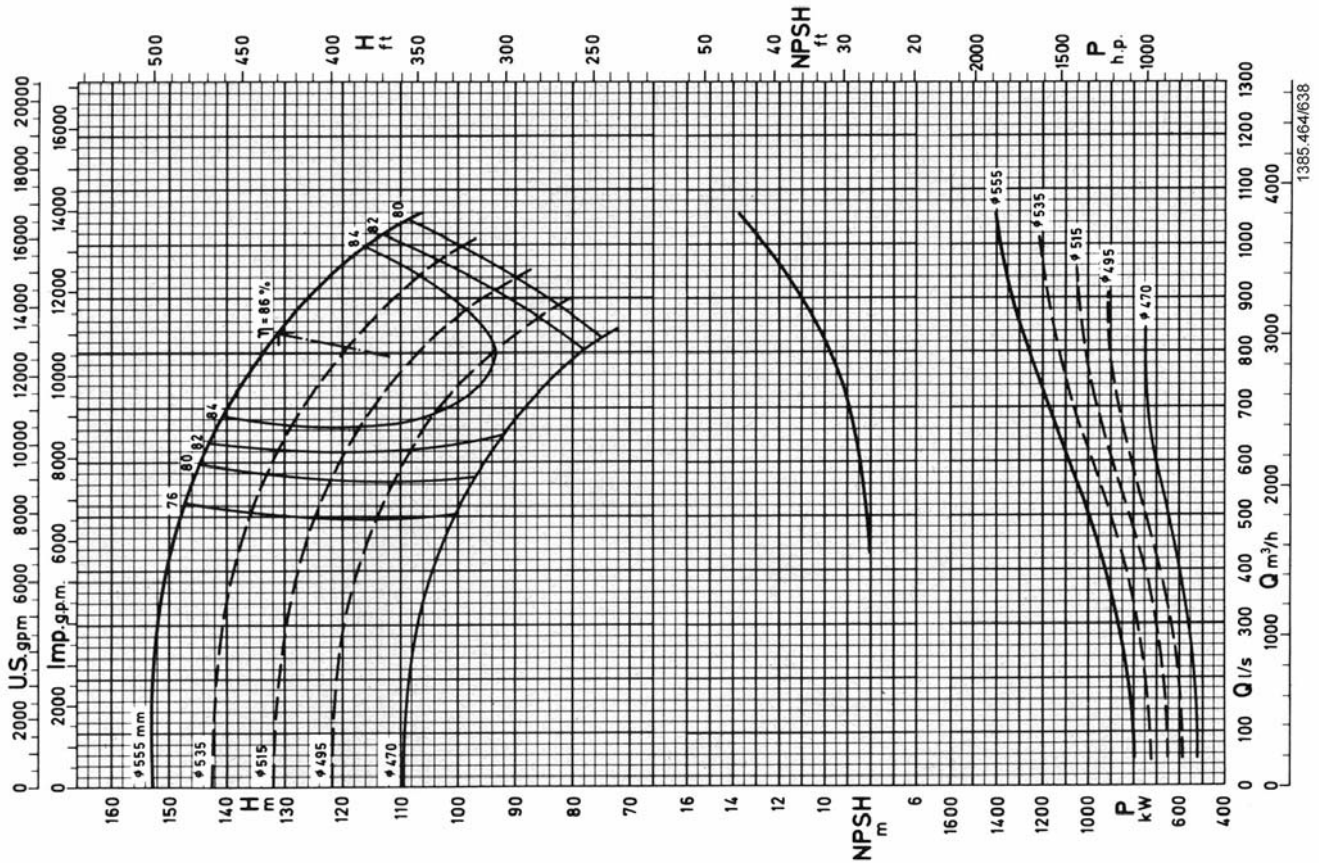


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

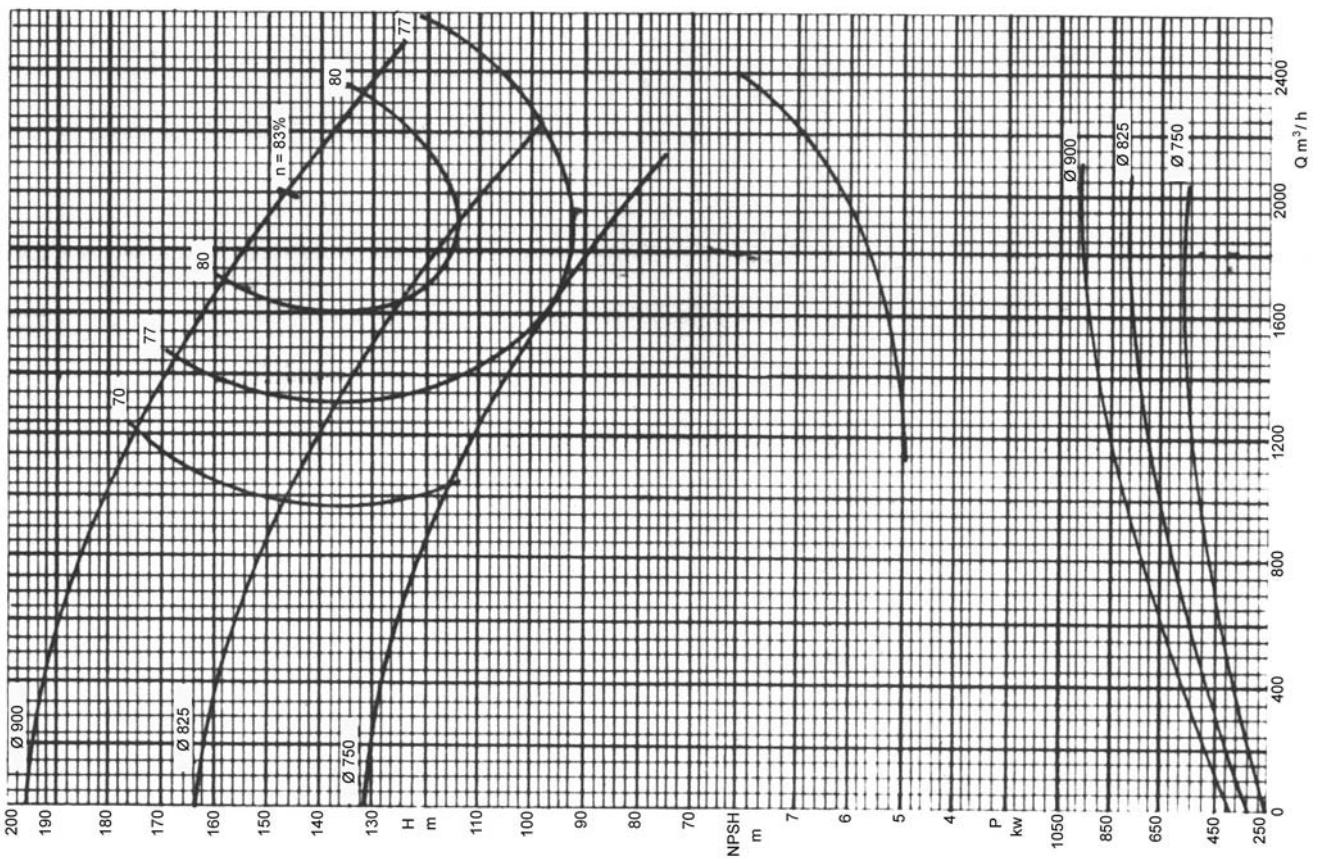
KSBB RDL 400-620 B

1750 rpm



KSBB RDL 400-850 A

1160 rpm



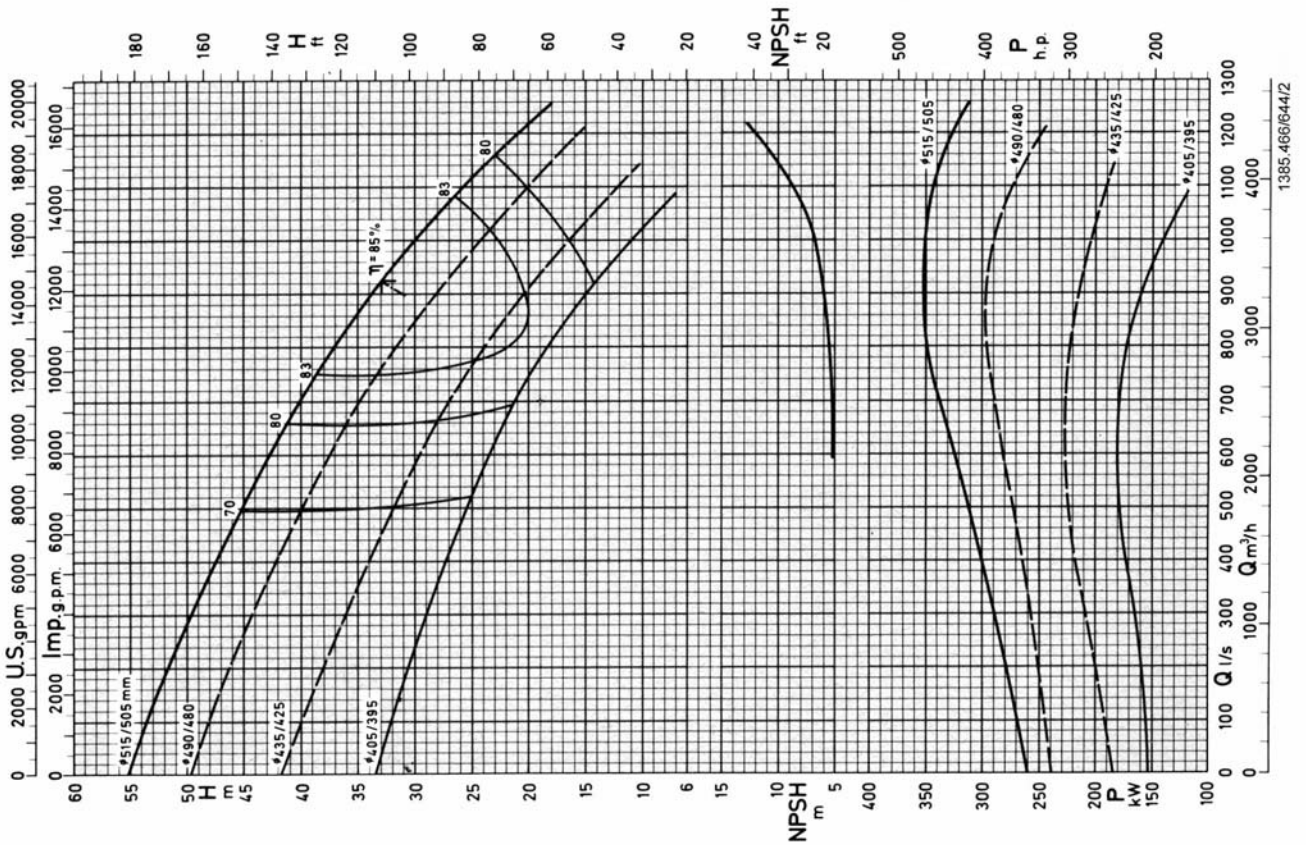
Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

K1385.466-B-043

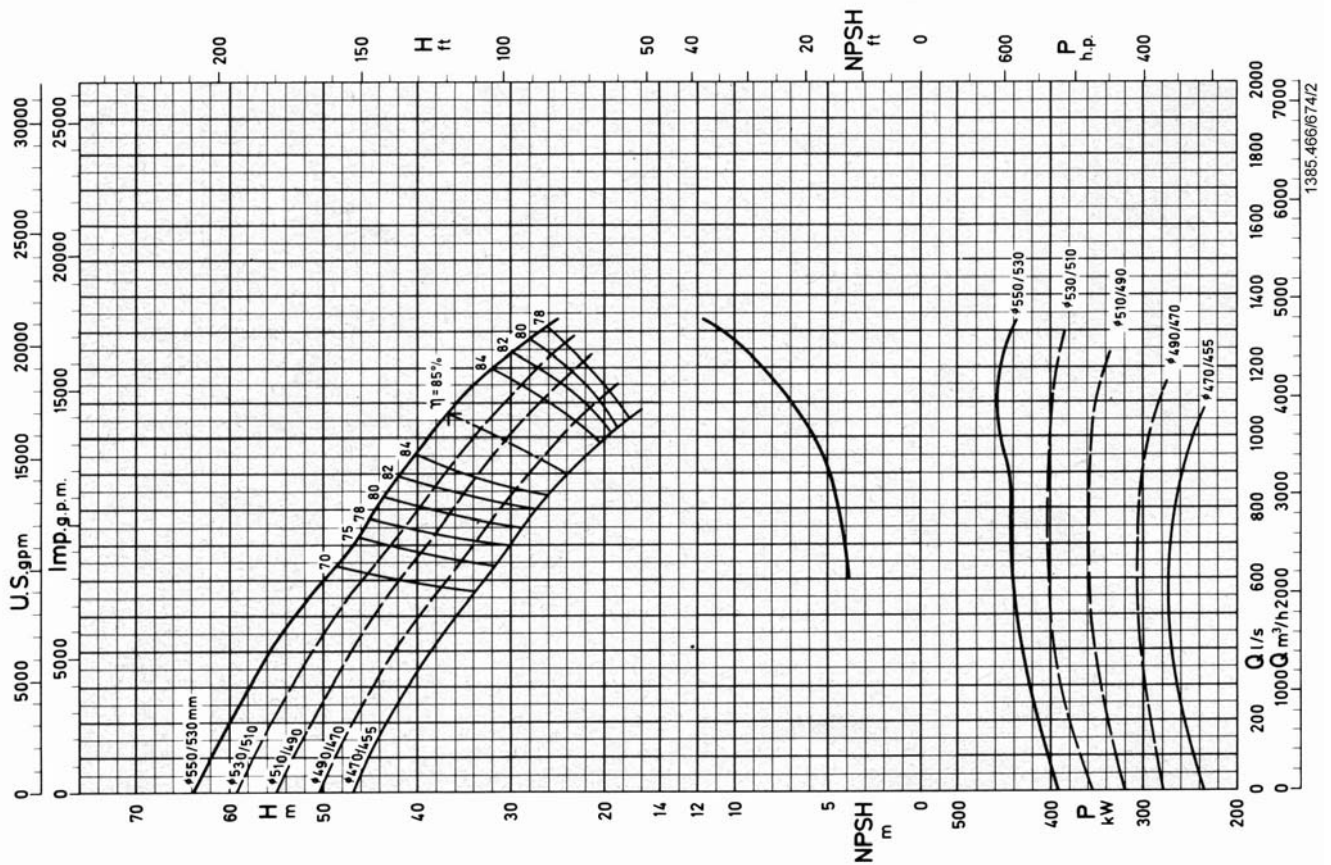
KSB RDL 500-510 B

1160 rpm



KSB RDL 500-510 A

1160 rpm

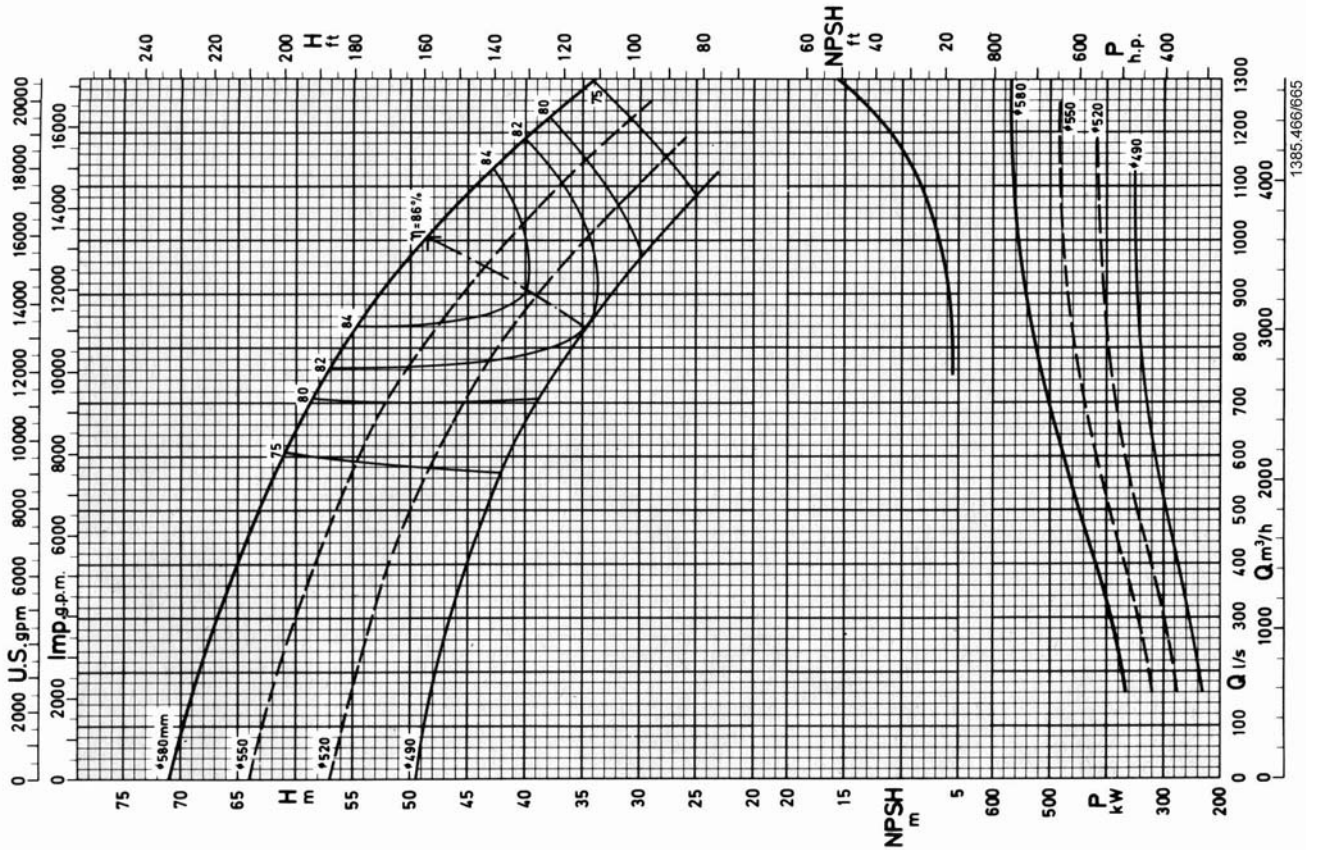


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

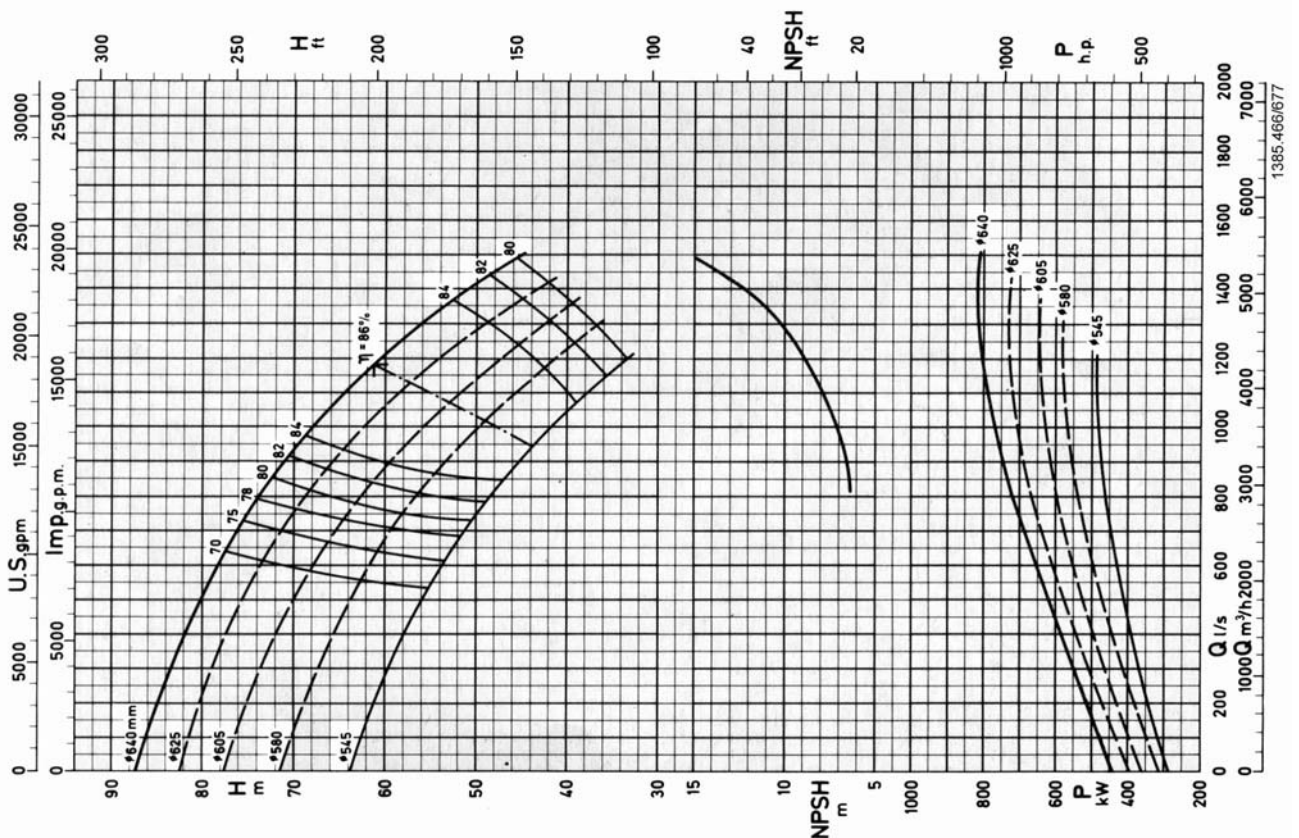
KSBB RDL 500-640 B

1160 rpm



KSBB RDL 500-640 A

1160 rpm

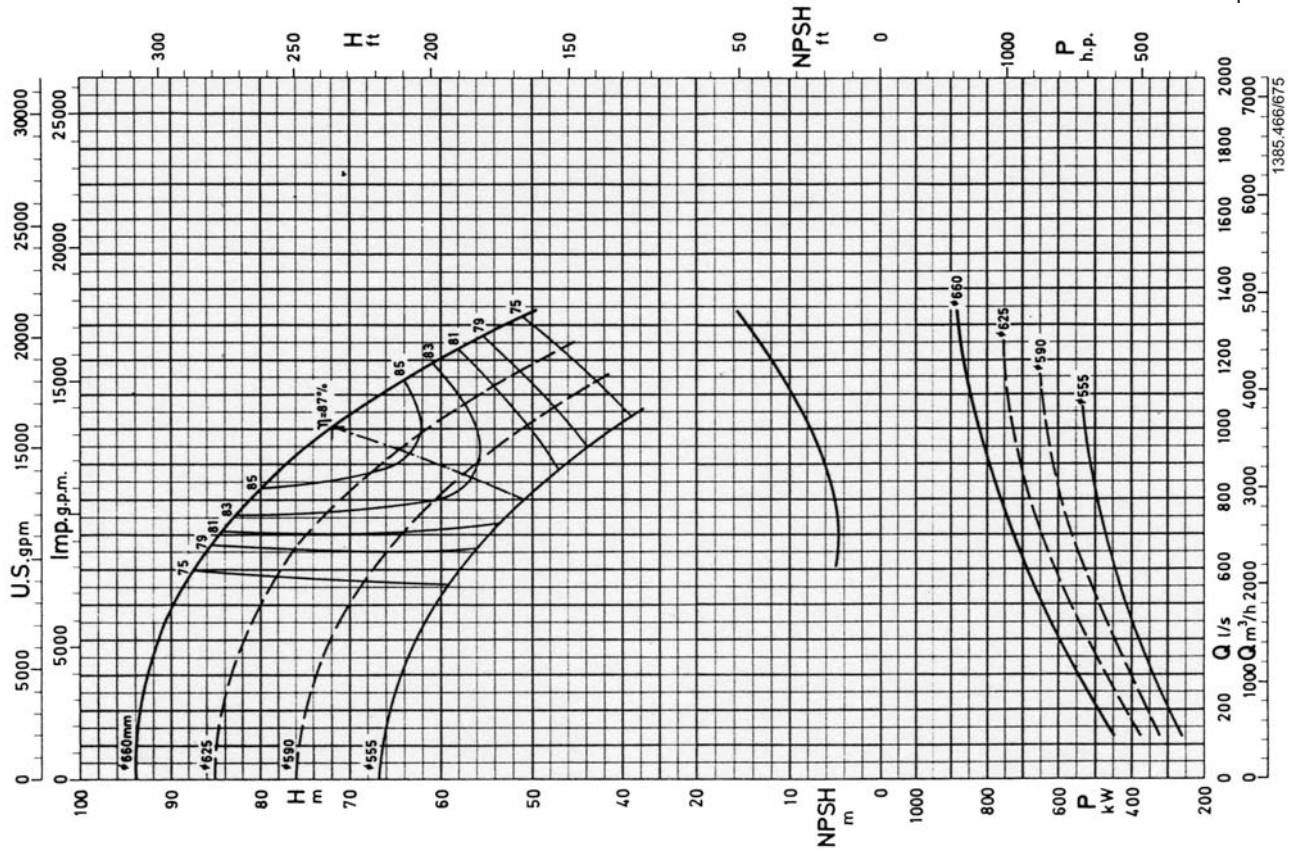


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

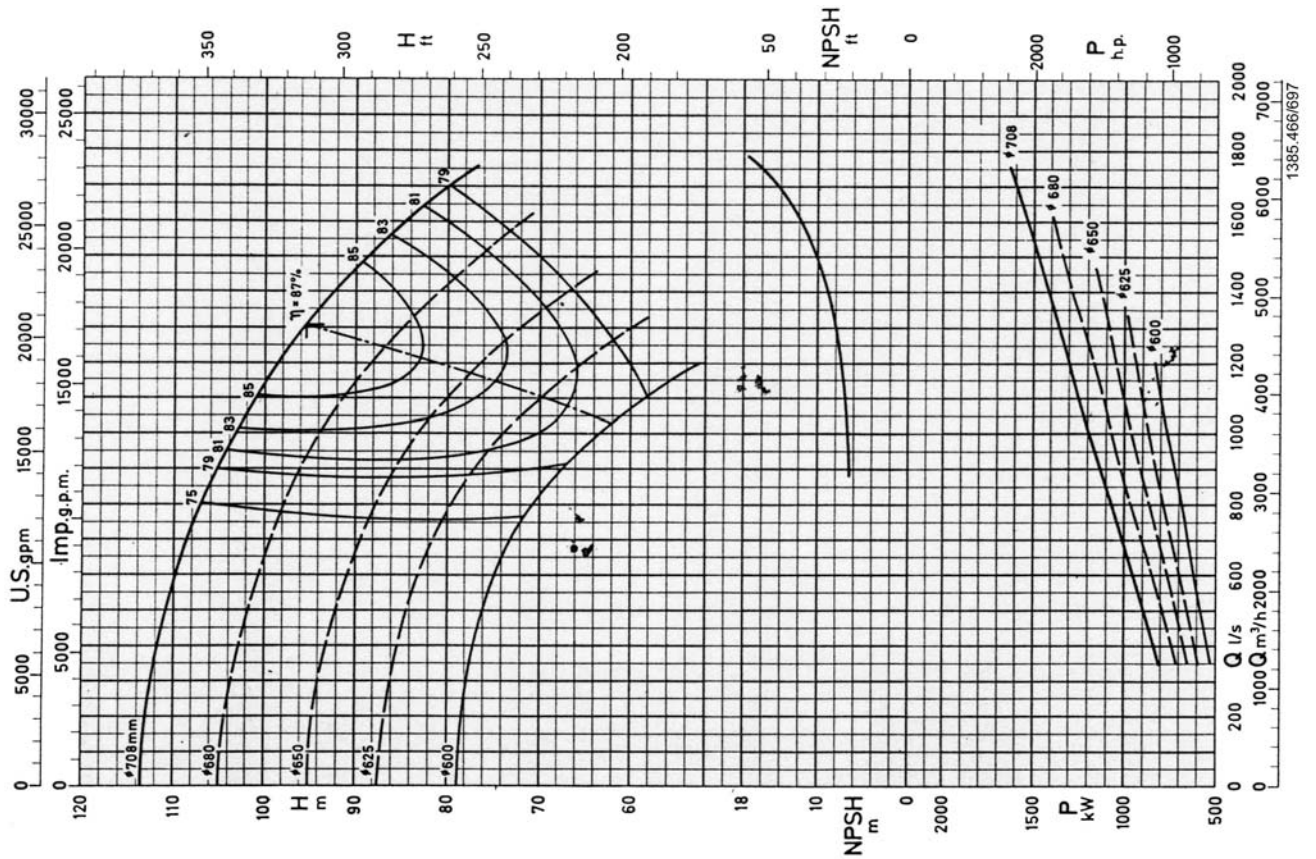
KSB RDL 500-700 B

1160 rpm



KSB RDL 500-700 A

1160 rpm

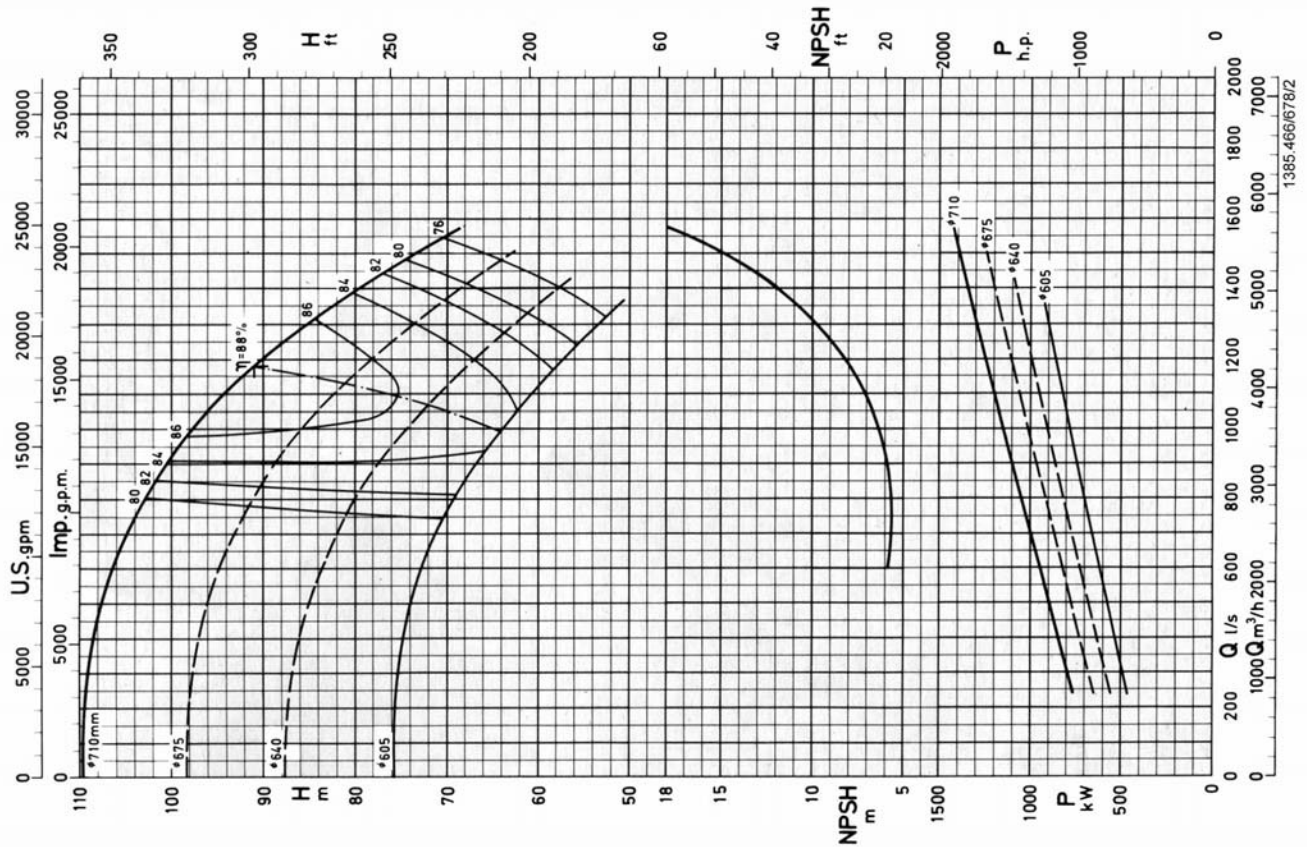


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

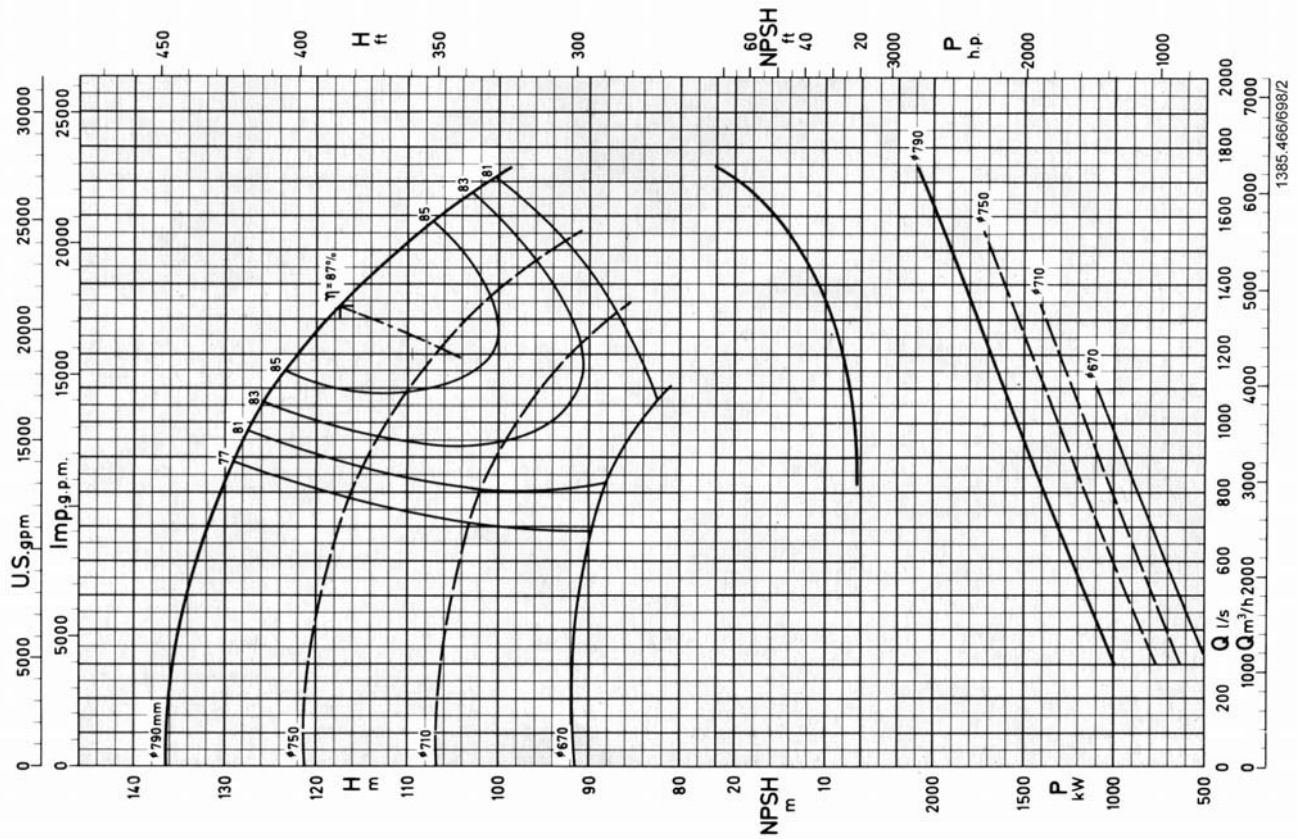
KSB RDL 500-790 B

1160 rpm



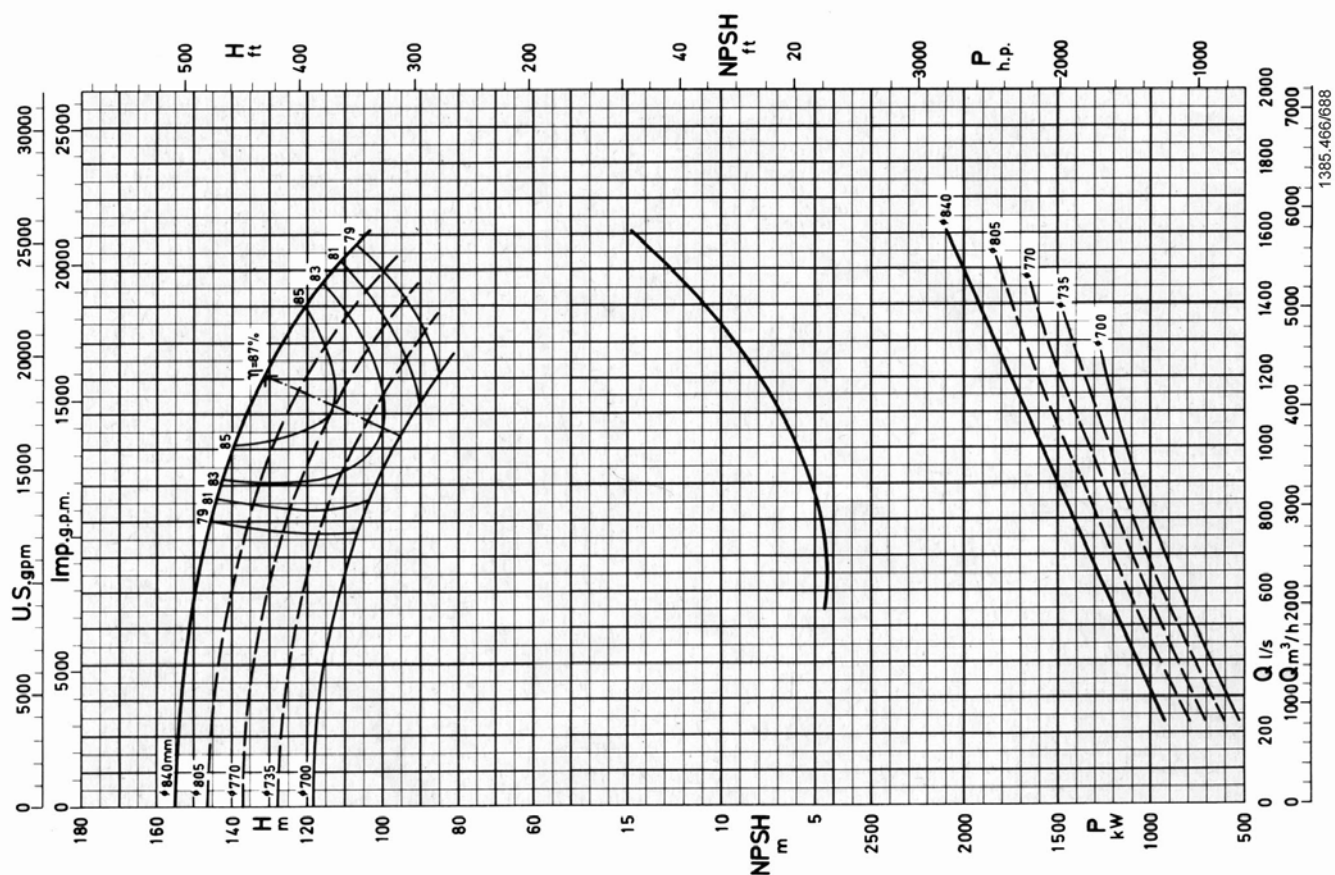
KSB RDL 500-790 A

1160 rpm



Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

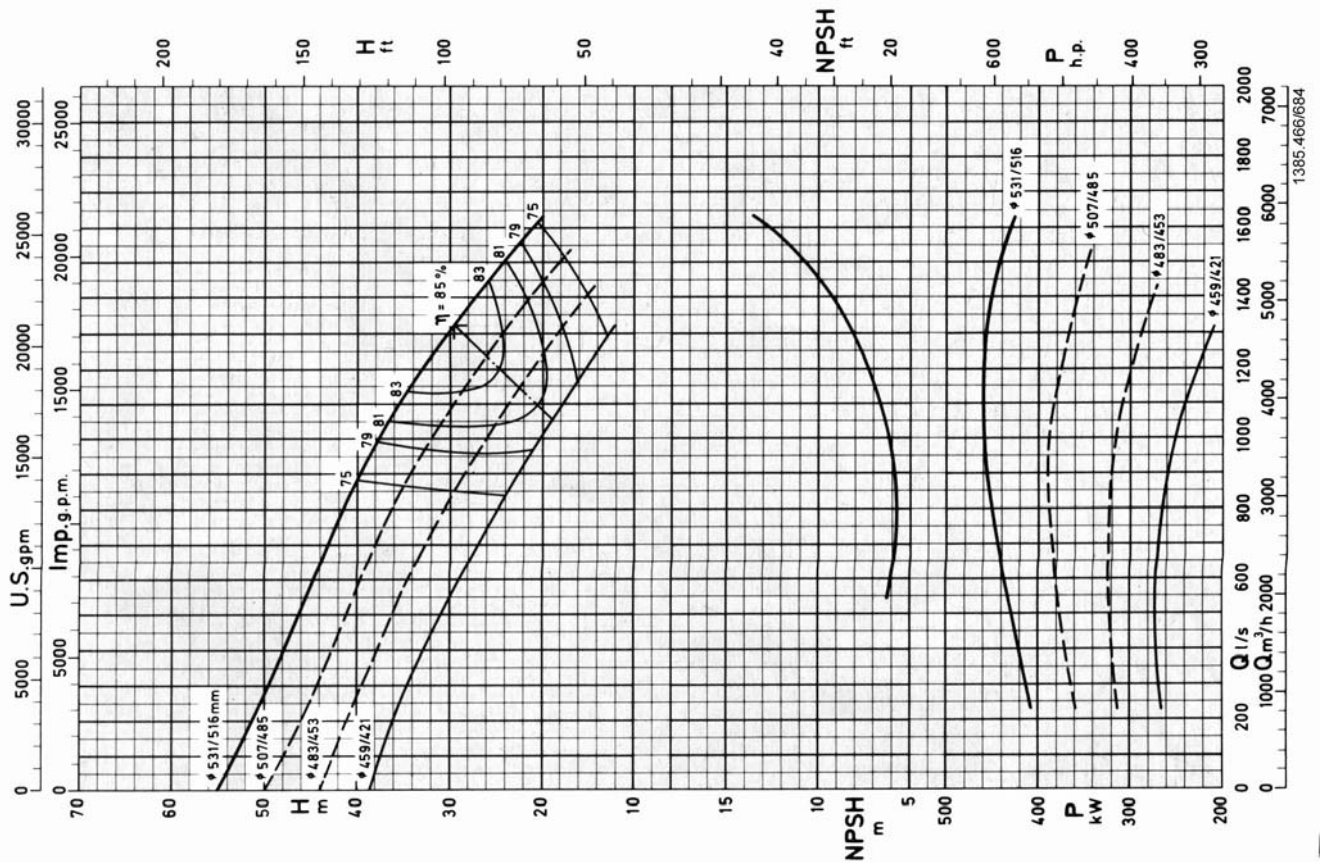


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

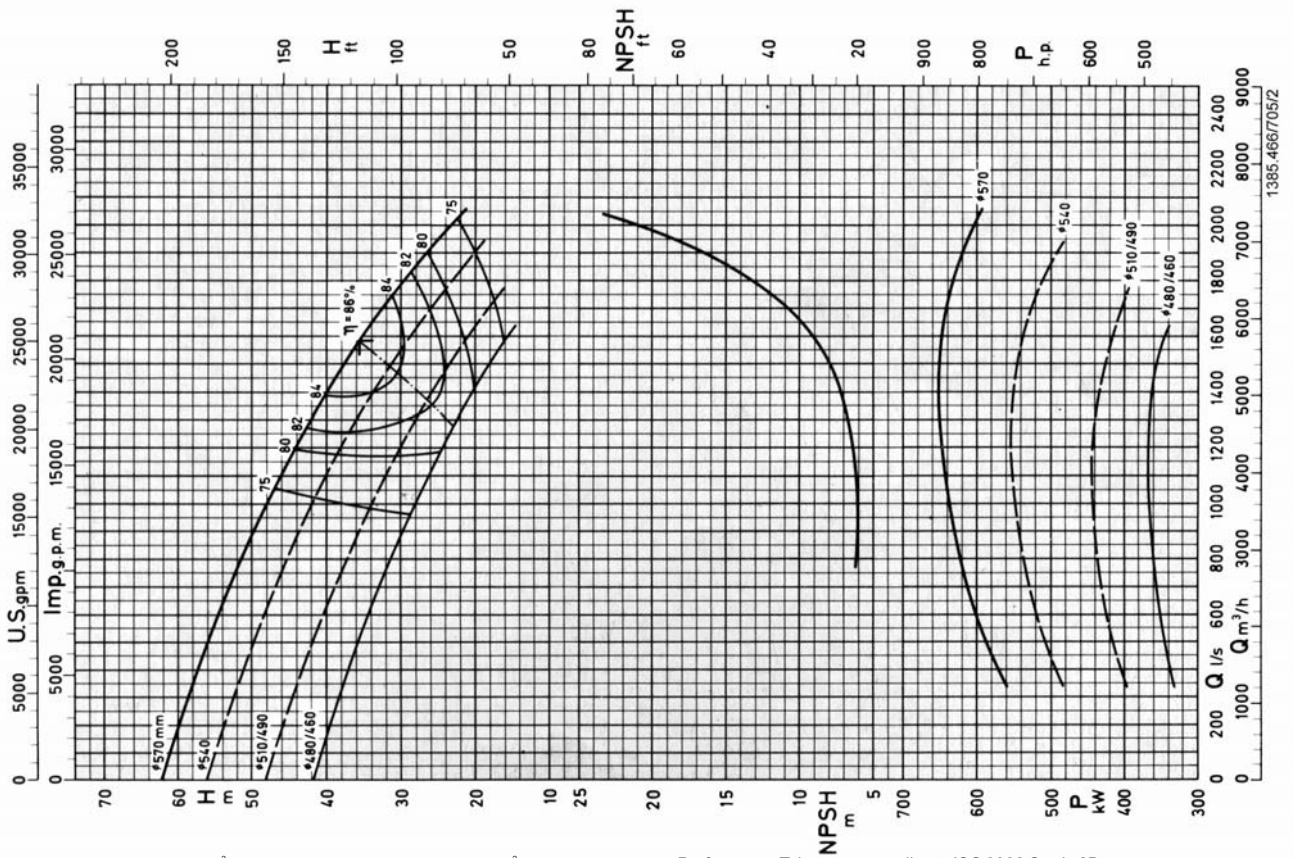
KSB RDL 600-540 B

1160 rpm



KSB RDL 600-540 A

1160 rpm

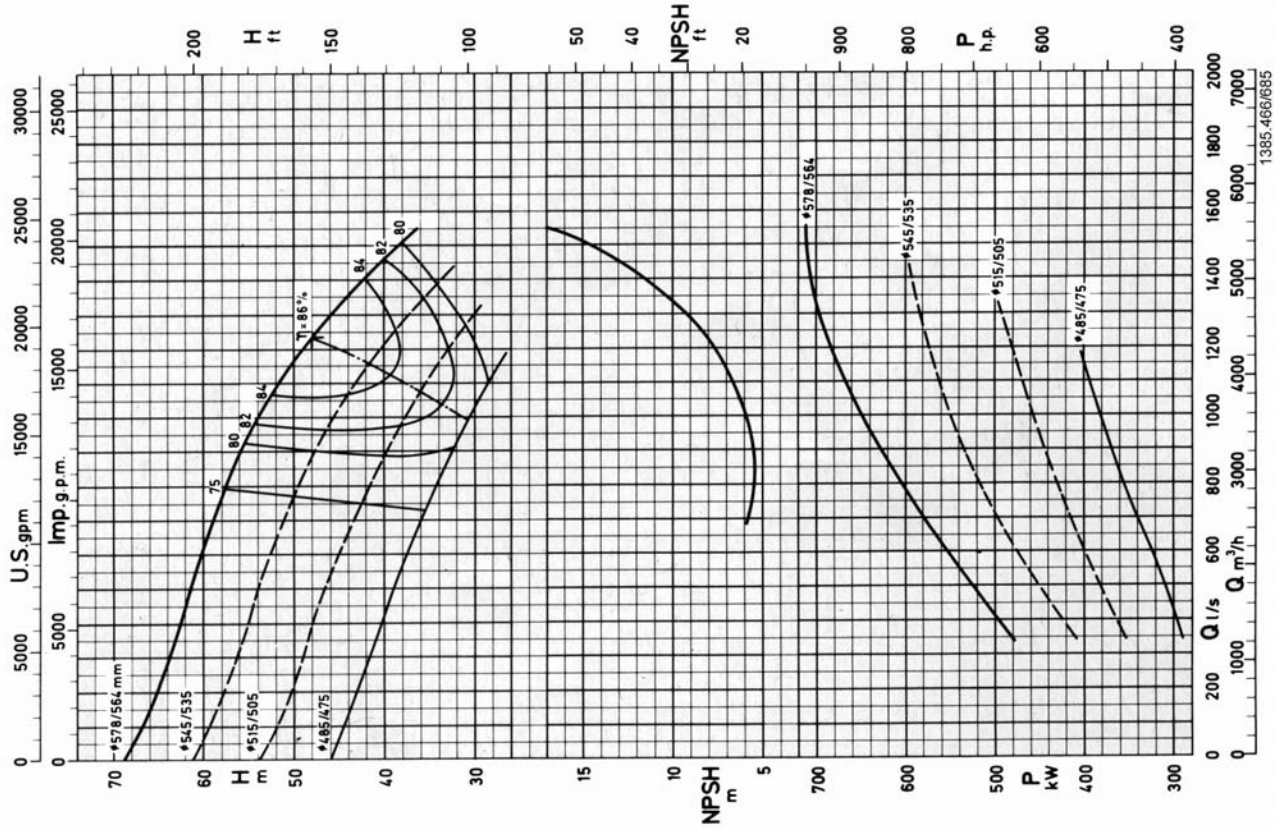


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

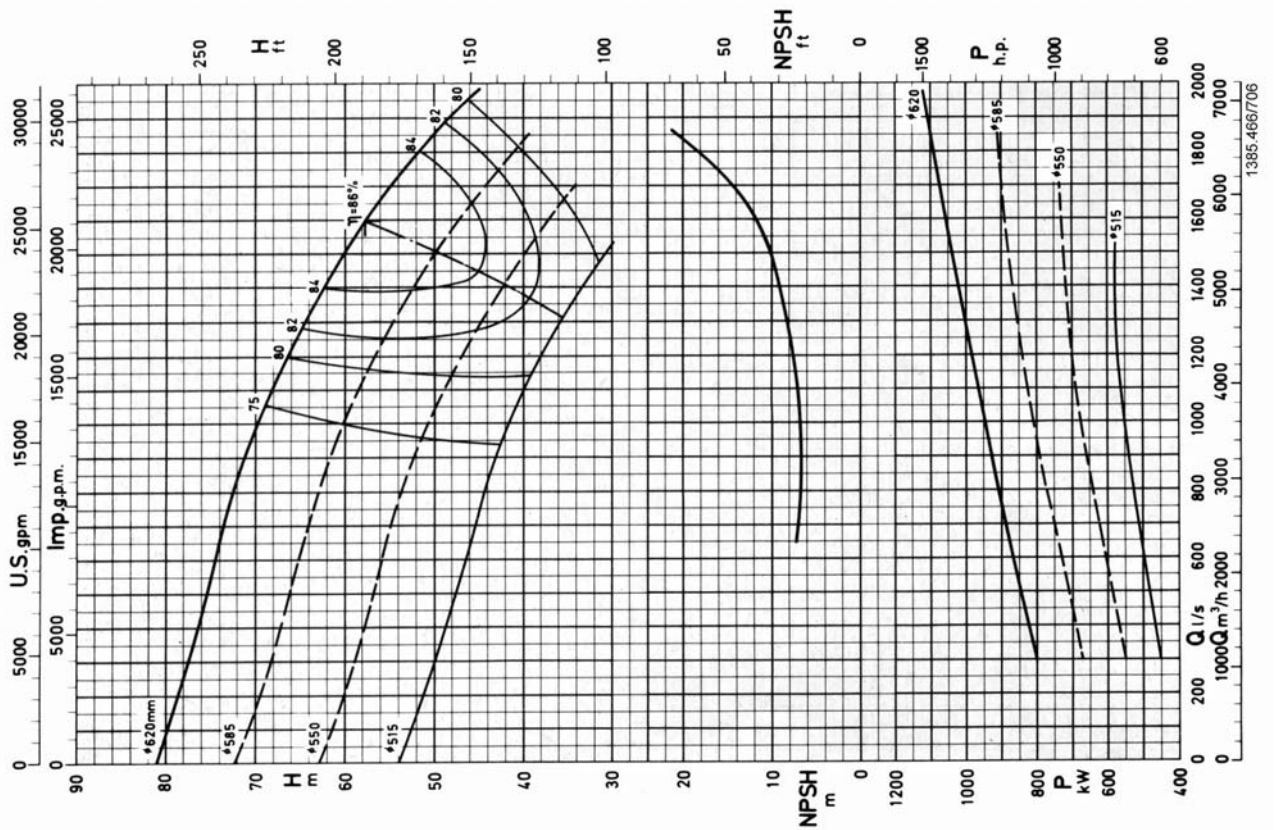
KSB RDL 600-620 B

1160 rpm



KSB RDL 600-620 A

1160 rpm

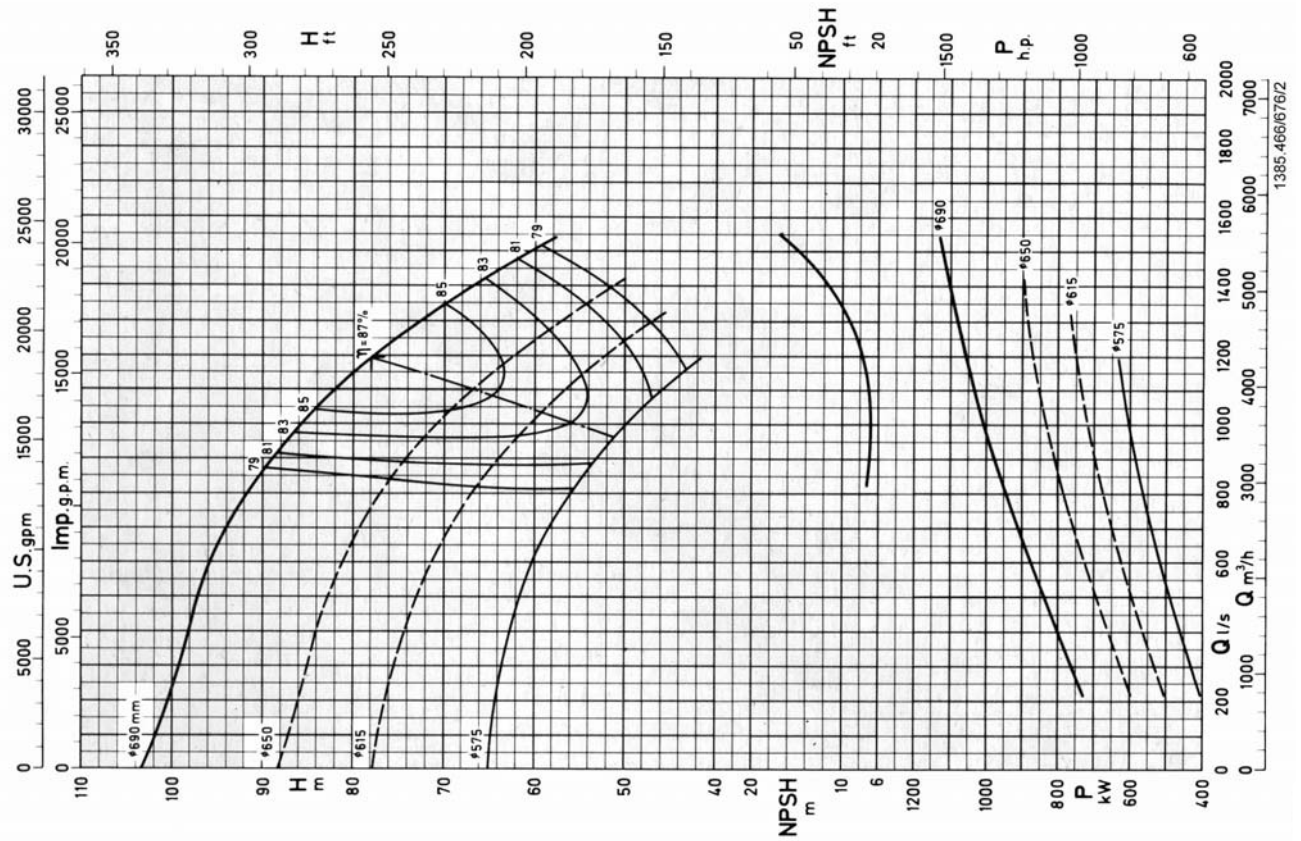


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

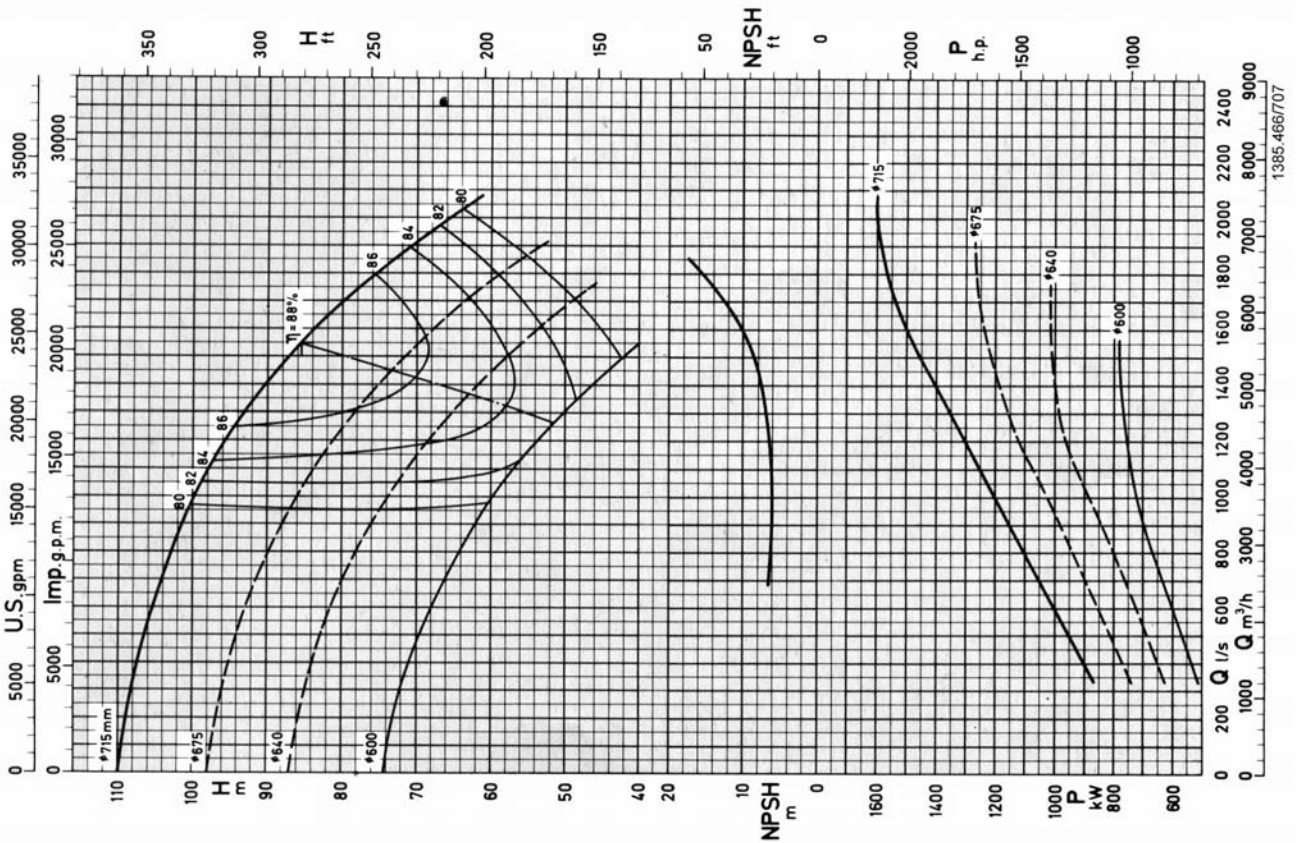
KSB RDL 600-710 B

1160 rpm



KSB RDL 600-710 A

1160 rpm

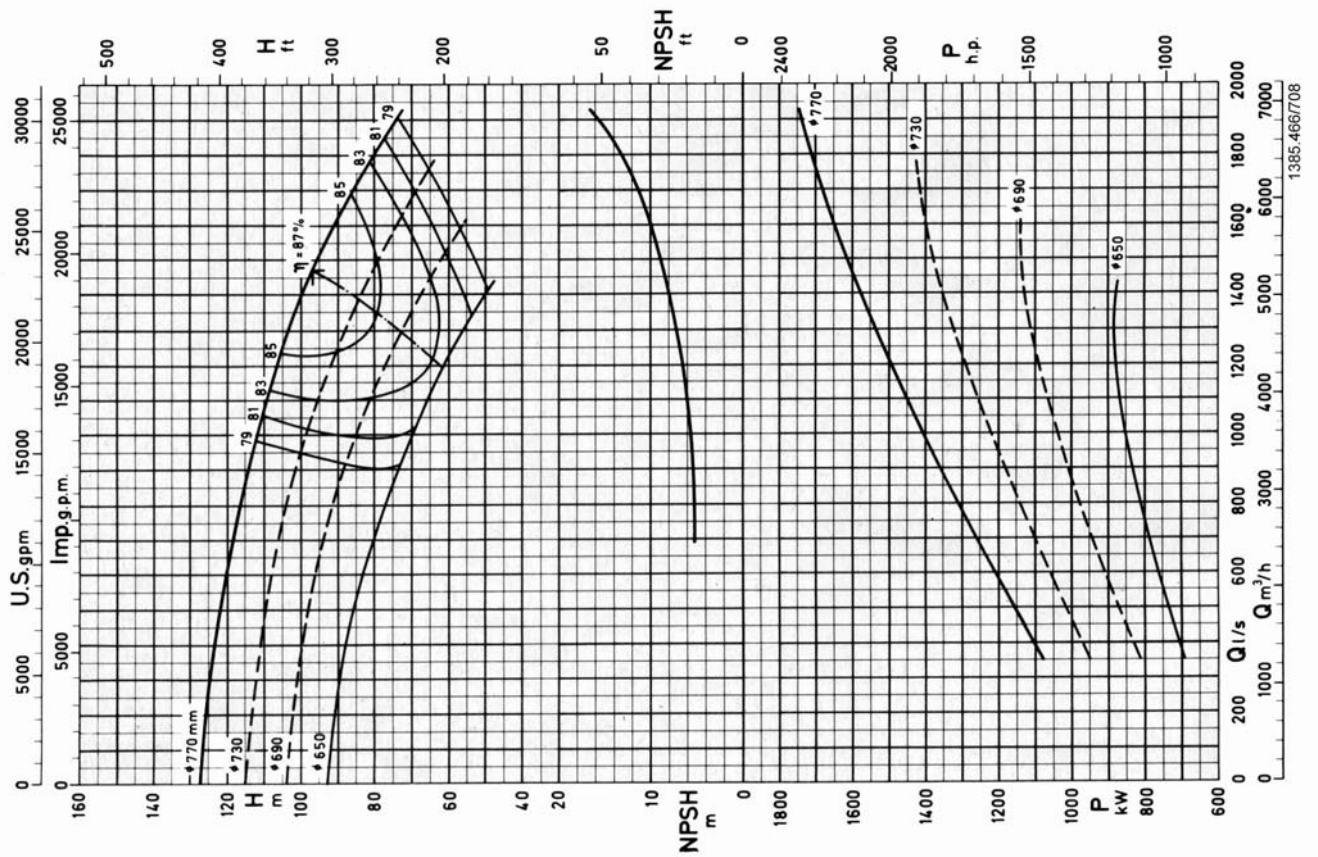


Data applies to a density of 1 kg/dm³ and Kinematic viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

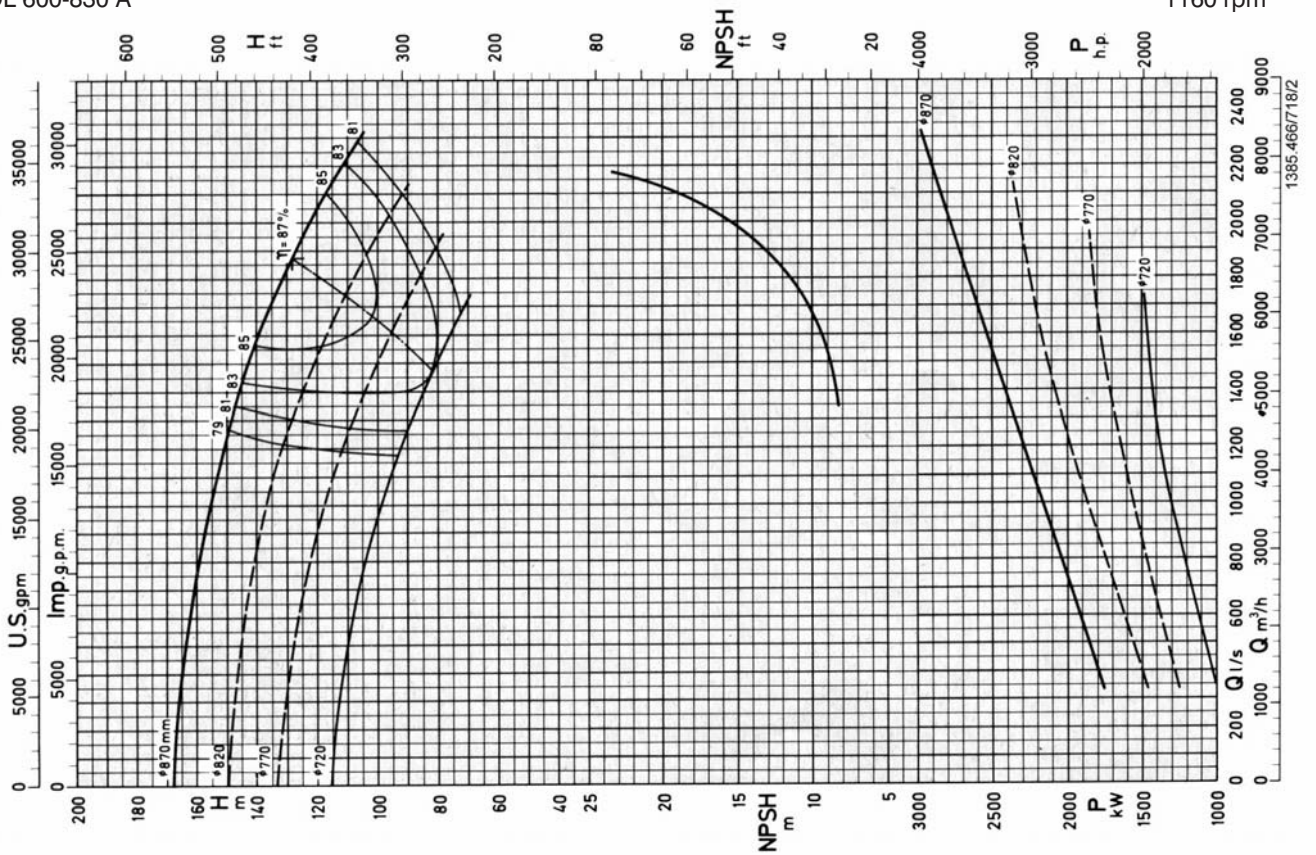
KSB RDL 600-830 B

1160 rpm



KSB RDL 600-830 A

1160 rpm

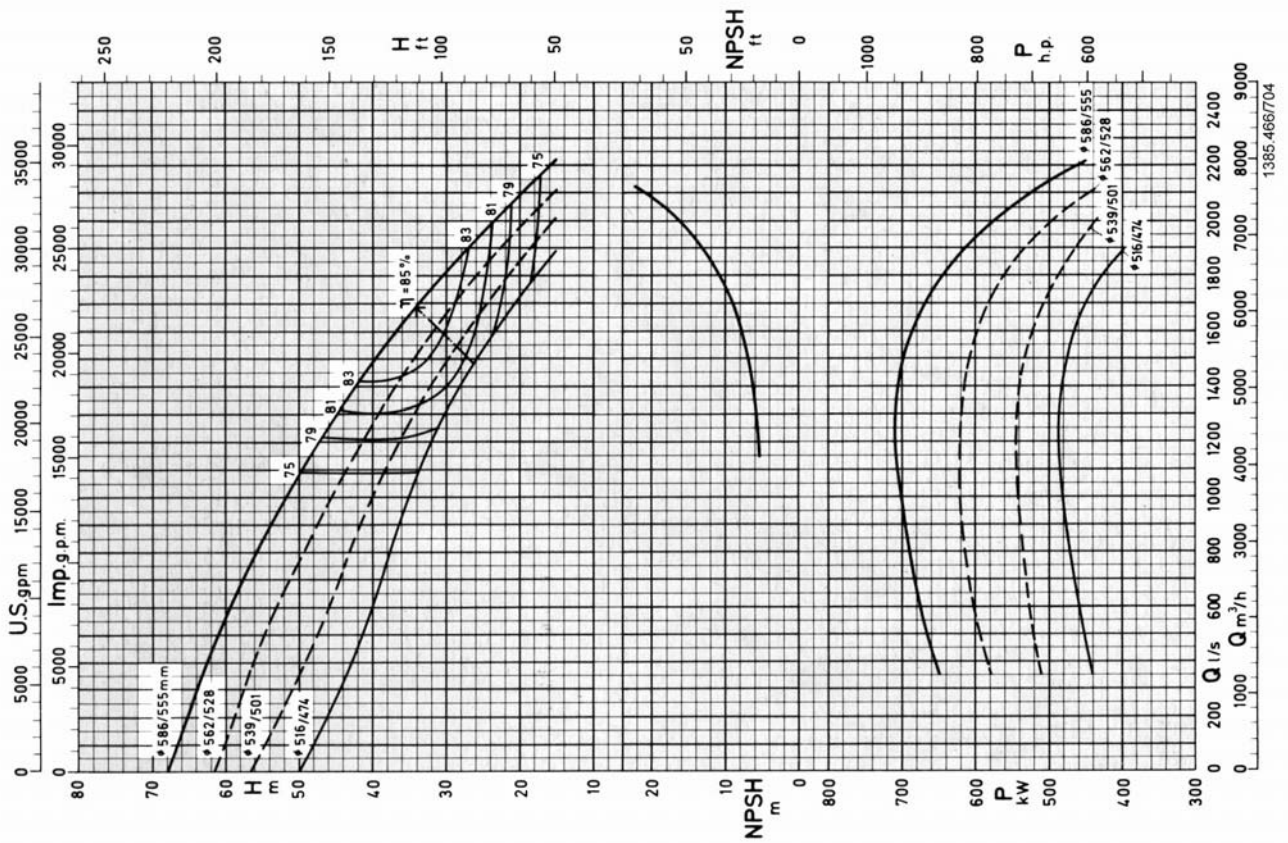


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

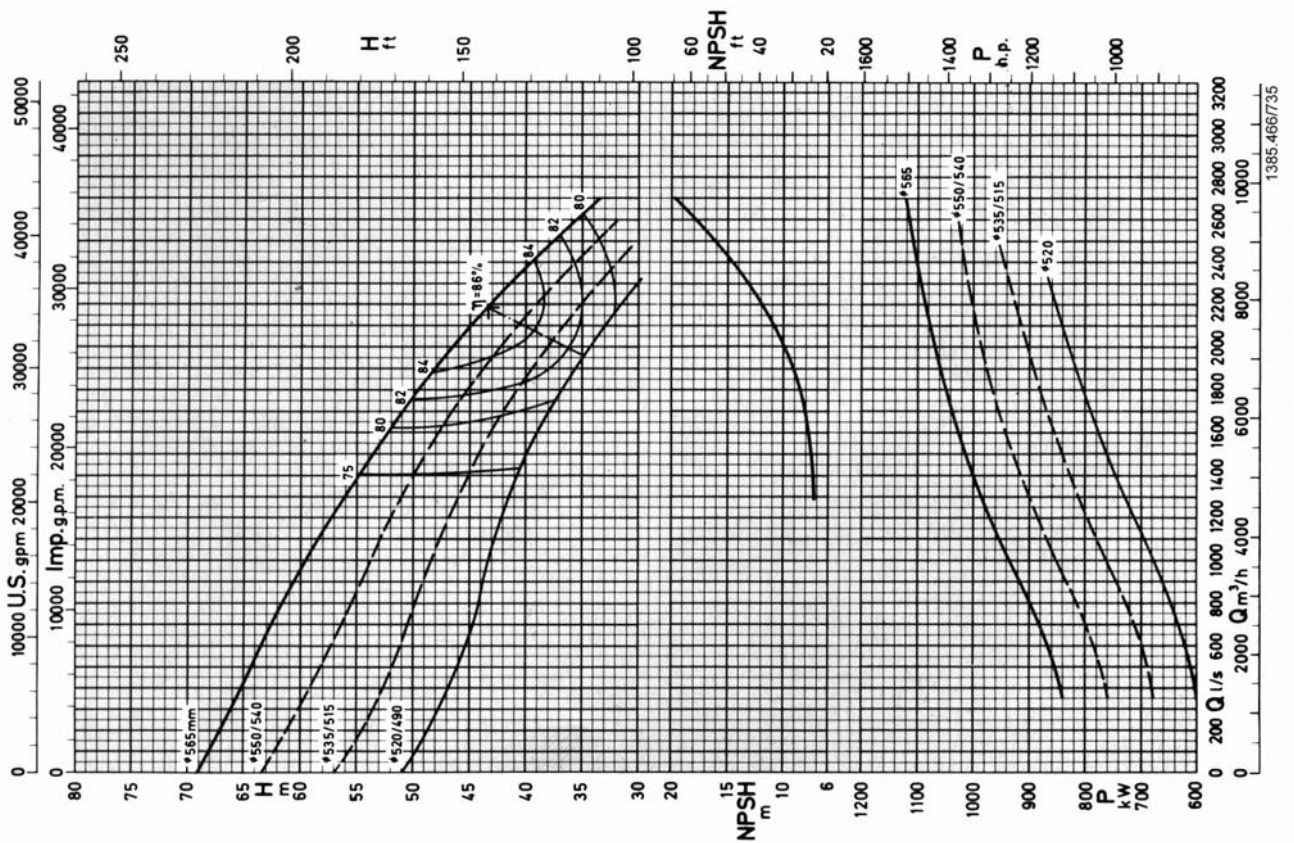
KSB RDL 700-590 B

1160 rpm



KSB RDL 700-590 A

1160 rpm

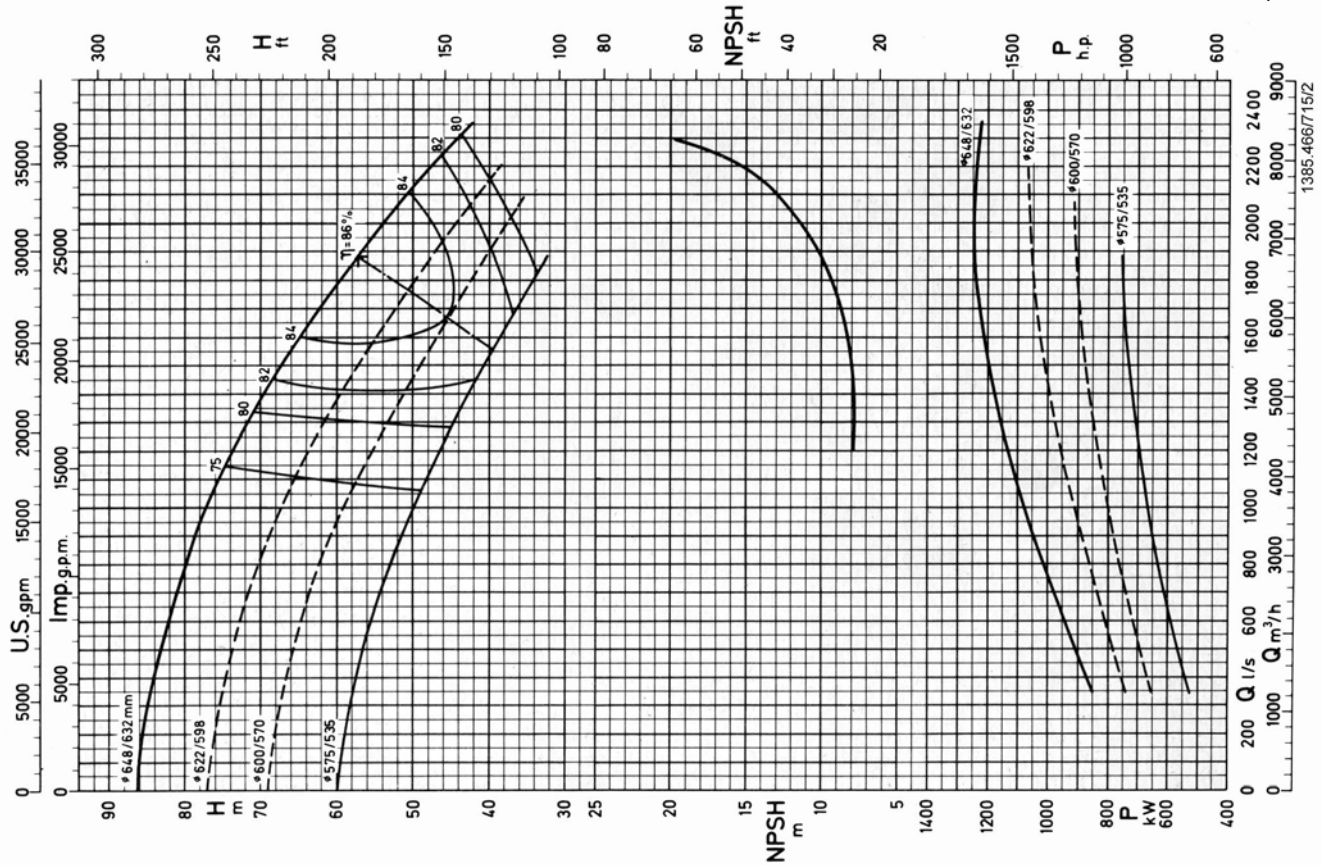


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

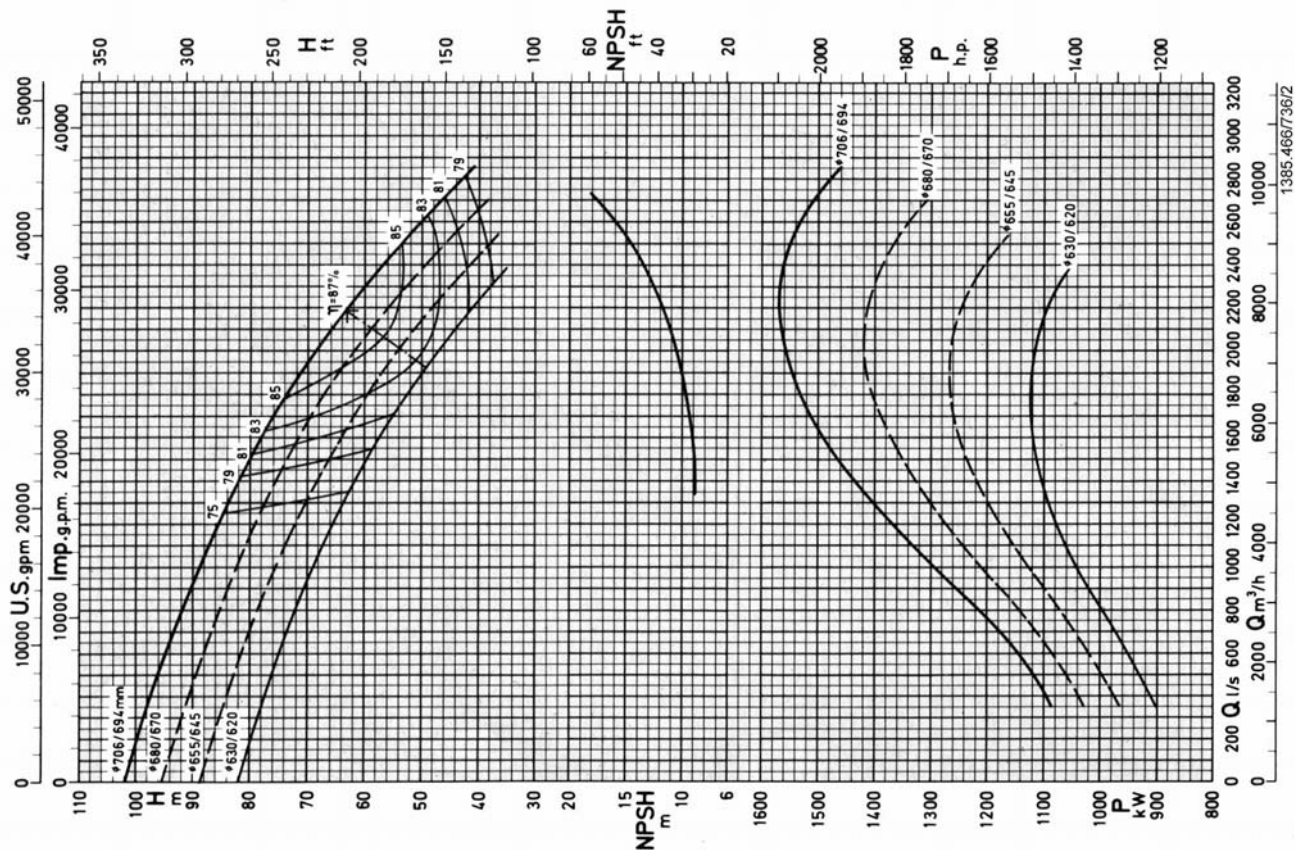
KSB RDL 700-710 B

1160 rpm



KSB RDL 700-710 A

1160 rpm

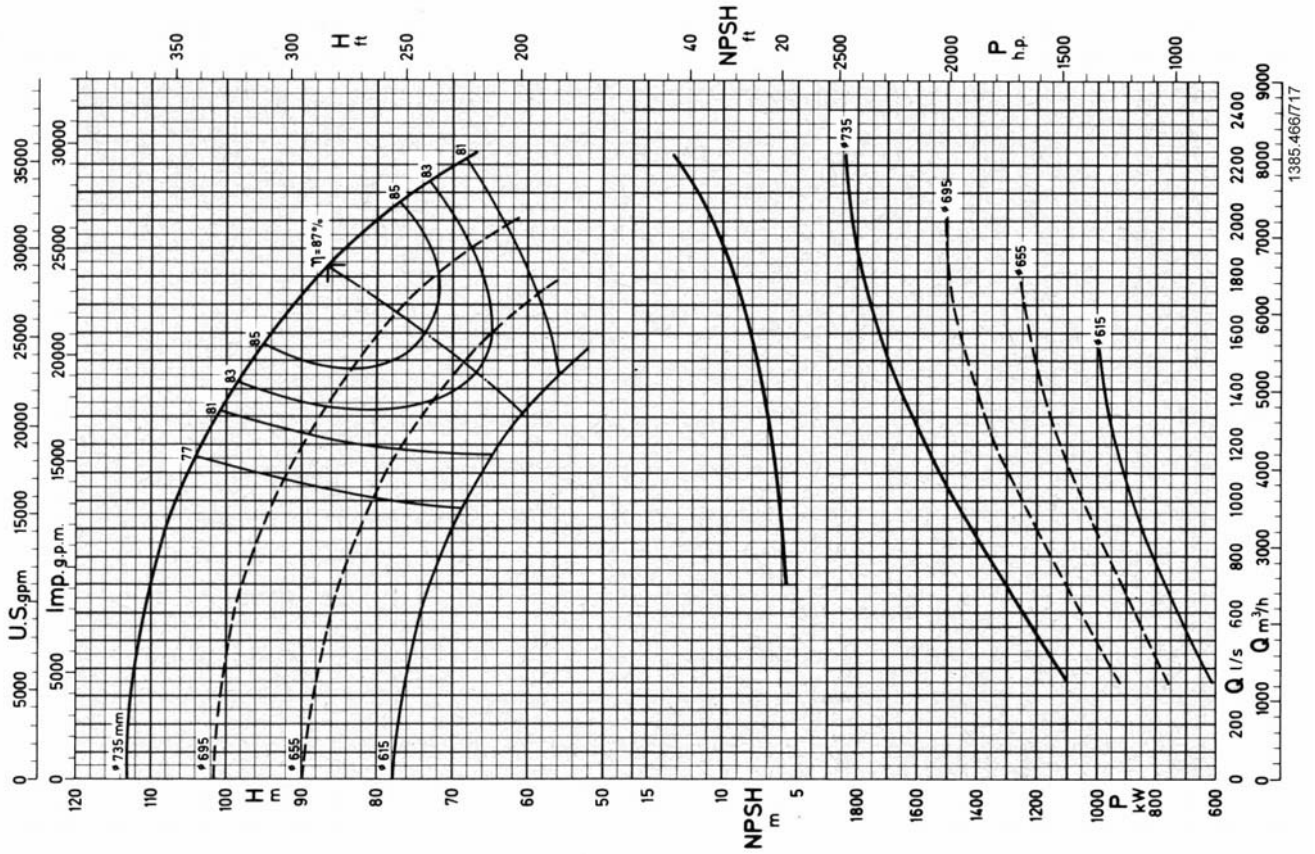


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

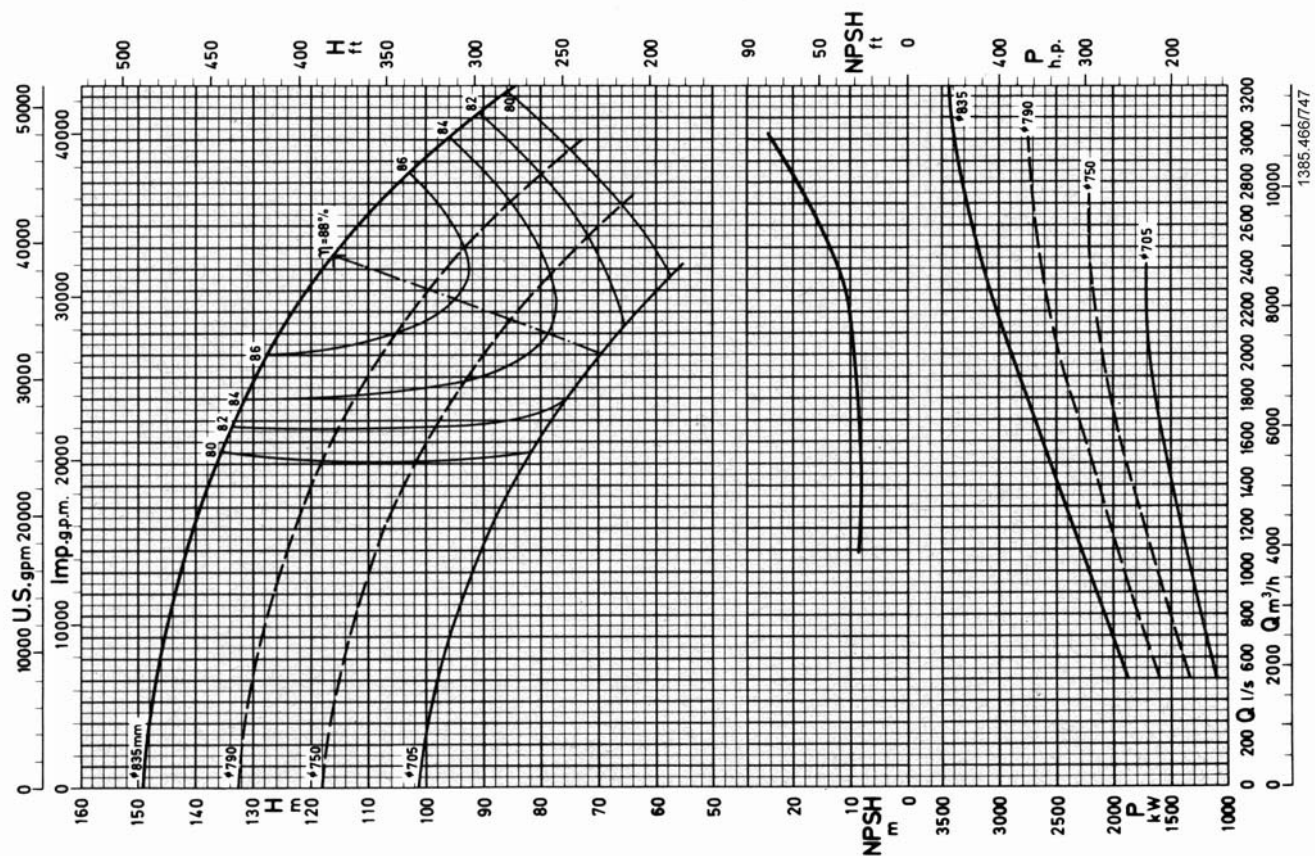
KSB RDL 700-820 B

1160 rpm



KSB RDL 700-820 A

1160 rpm

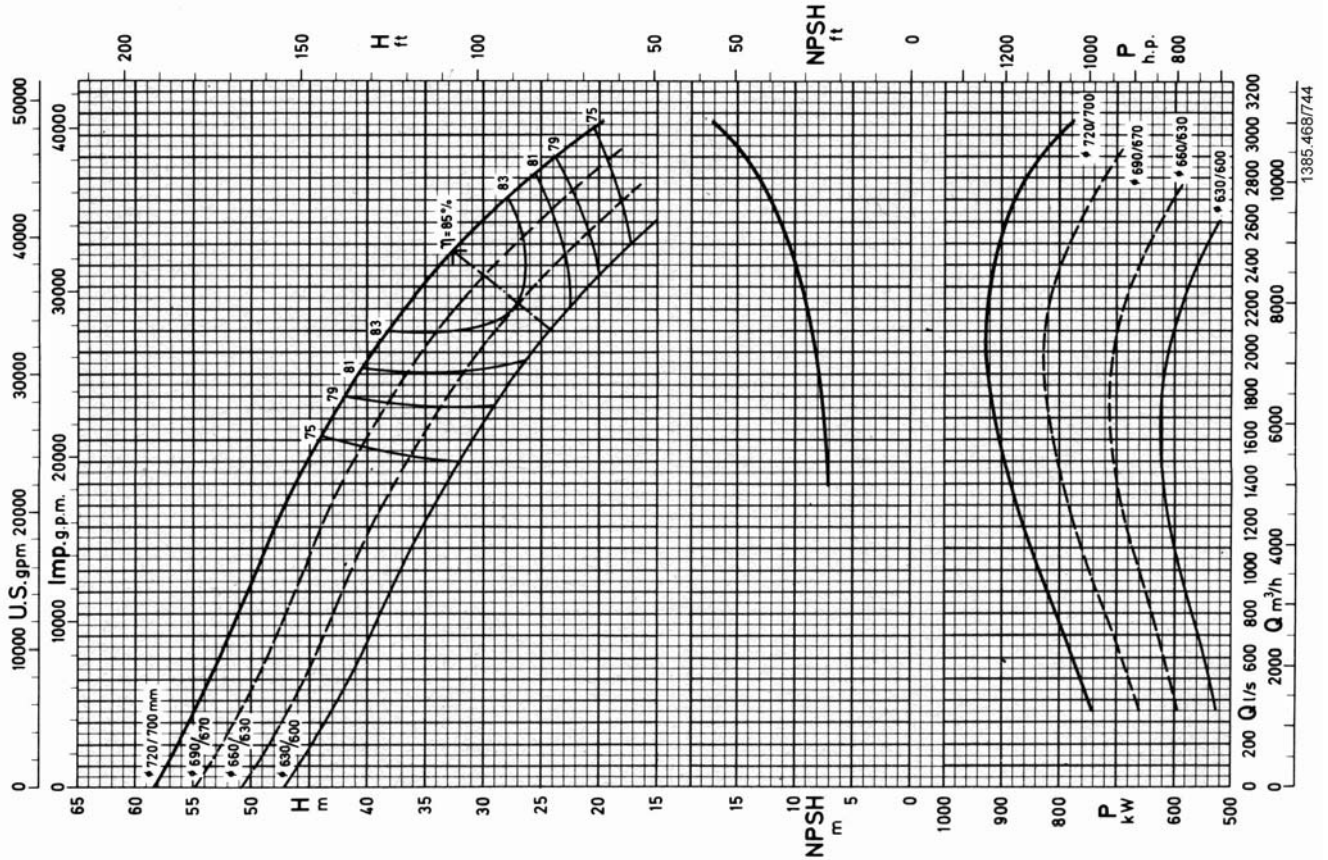


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

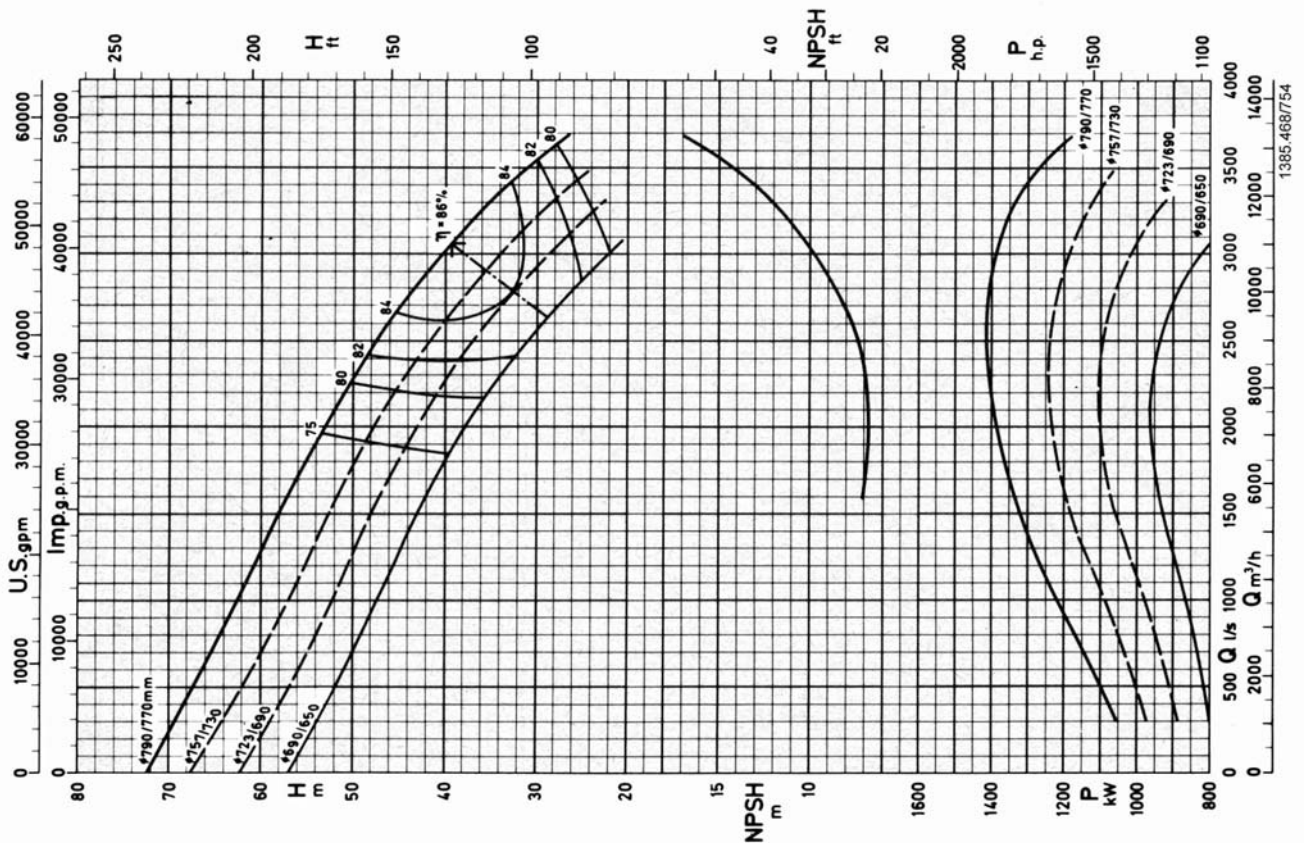
KSB RDL 800-740 B

880 rpm



KSB RDL 800-740 A

880 rpm

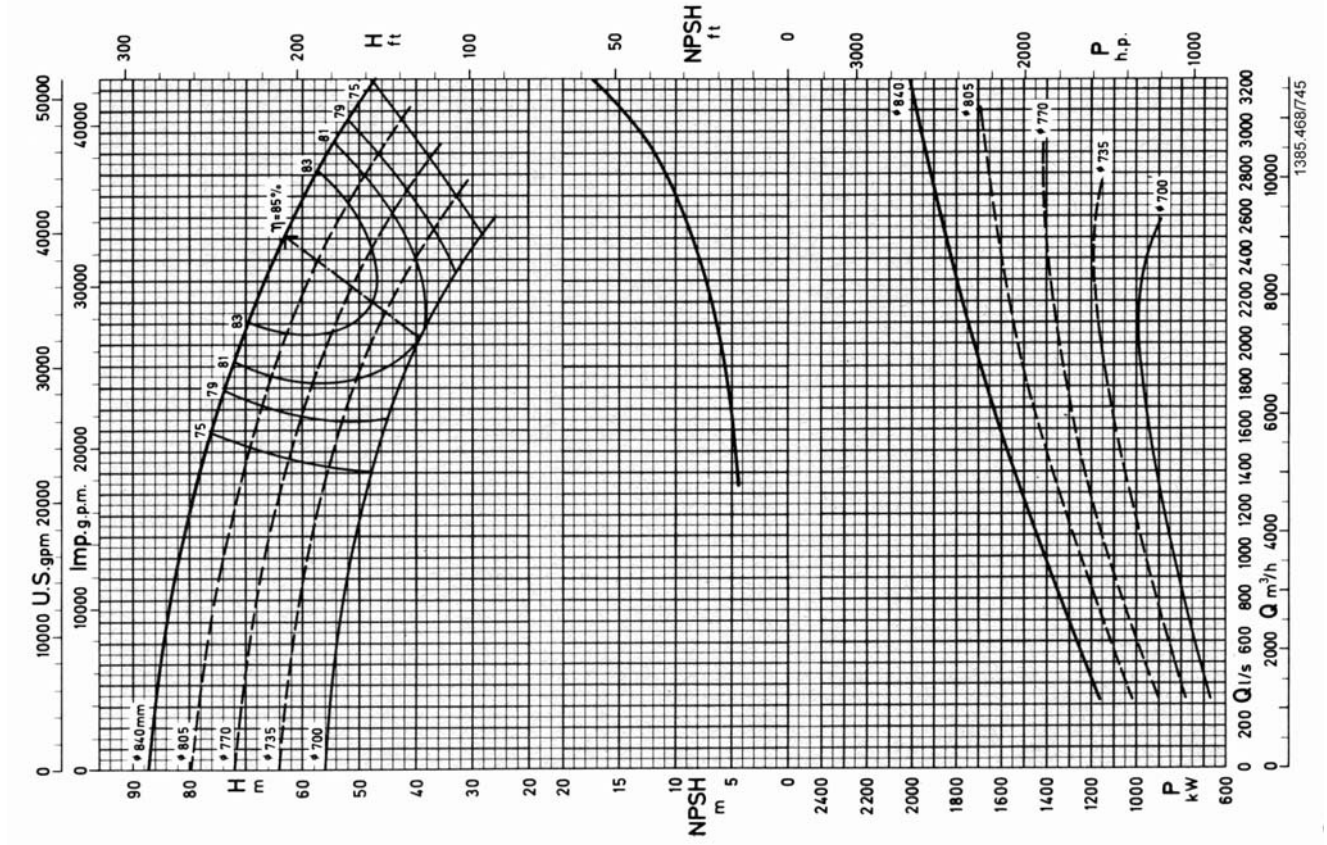


Data applies to a density of $1\ kg/dm^3$ and Kinematical viscosity up to $20\ mm^2/s$

Performance Tolerance according to ISO 9906 Grade 2B

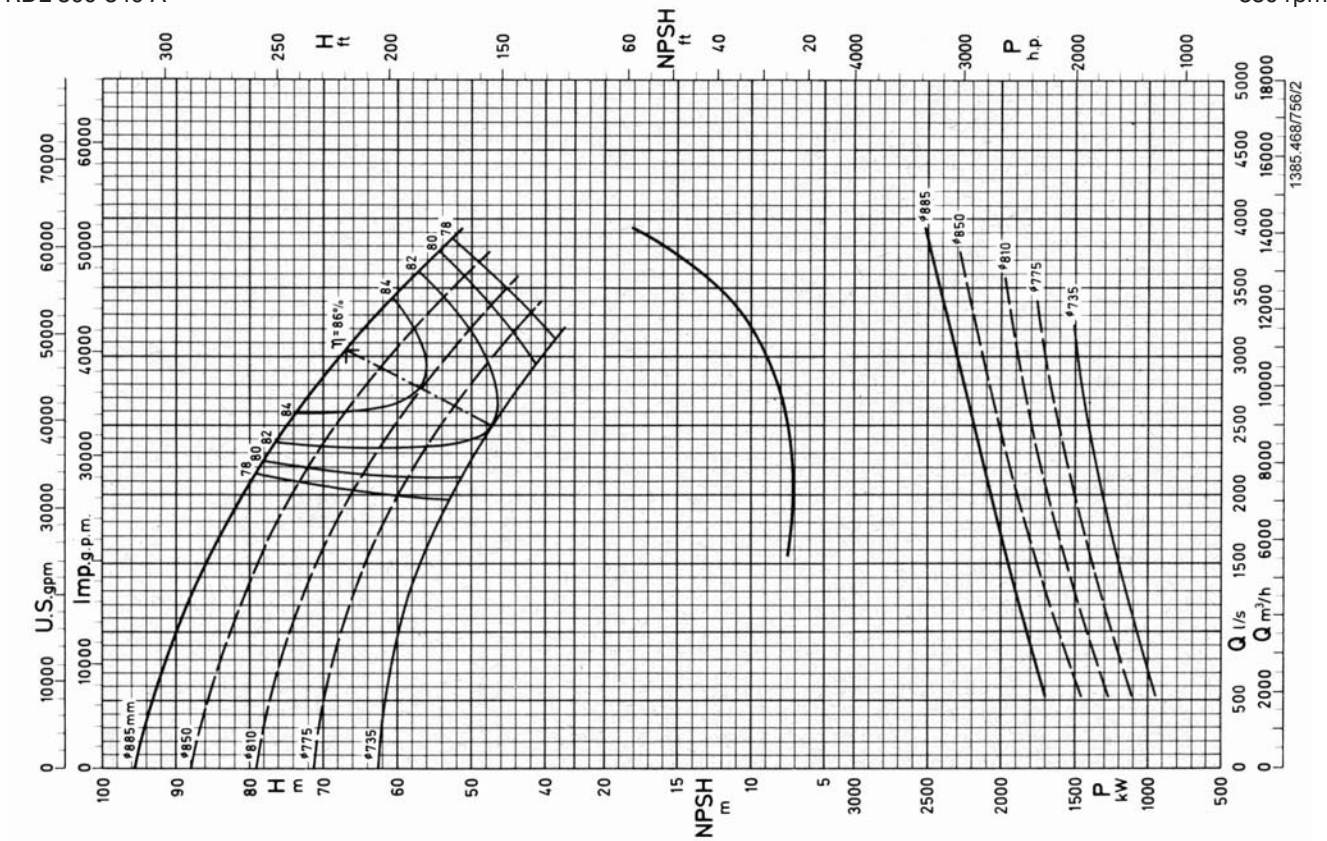
KSB RDL 800-840 B

880 rpm



KSB RDL 800-840 A

880 rpm

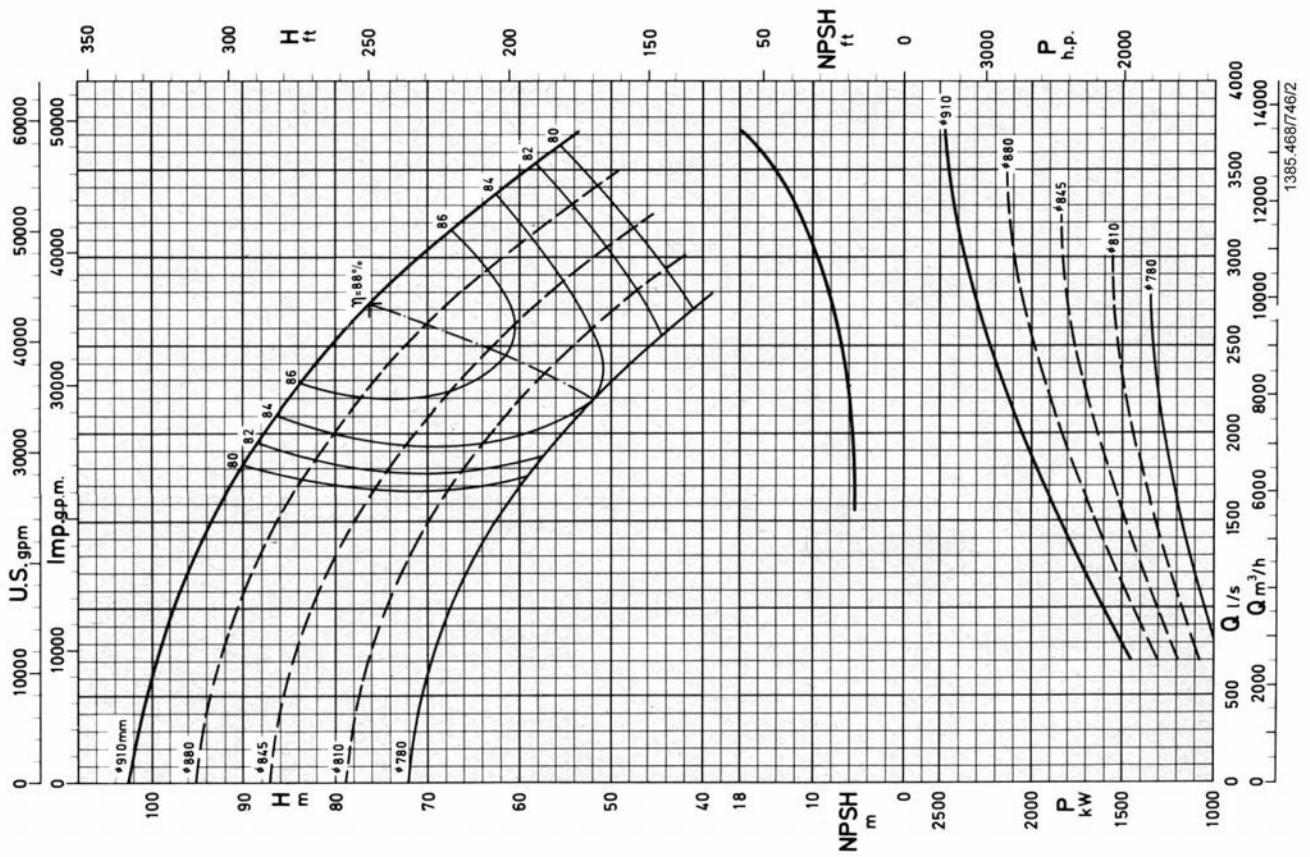


Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

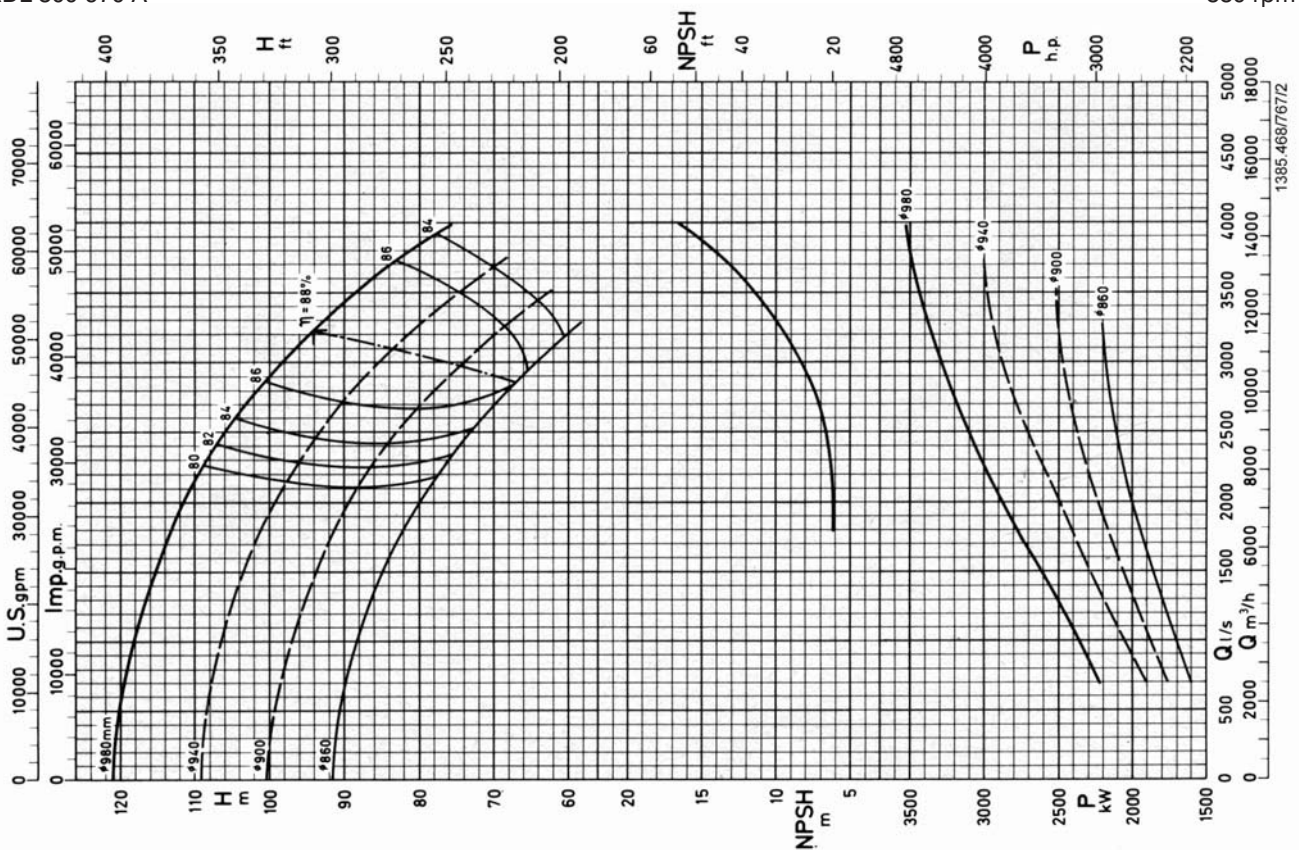
KSB RDL 800-970 B

880 rpm



KSB RDL 800-970 A

880 rpm



Data applies to a density of 1 kg/dm³ and Kinematical viscosity up to 20 mm²/s

Performance Tolerance according to ISO 9906 Grade 2B

13.01.2015

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