



Engineering Flow Solutions

DOUBLE SUCTION PUMPS

HMS DeLium

TECHNICAL CATALOGUE



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HMS DELIUM DOUBLE SUCTION PUMPS

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* The pumps characteristics are given for a range up to 3,500 m³/h (pump model D350-530).
The characteristics for other models (over 3,500 m³/h) are available by request.

HMS DeLium Double Suction Pumps

The HMS DeLium series is a new generation of the axially split, one-stage, between-bearings, double suction centrifugal pumps designed by the latest computational fluid dynamic methods and taking into account the modern requirements to power consumption, reliability and long service life.

The design of pumps and pumping units corresponds to standards ISO 9905:1994 / ISO 5509-2002 / GOST R 54805-2011, GOST R 54806-2011 to centrifugal pumps with double-entry impellers and axially split casing.

The HMS DeLium pump series is produced at the facilities of HMS Livhydromash (HMS Group) – one of the leading pumping equipment manufacturers in Russia and CIS.

APPLICATION

- Water supply and HVAC systems
- Oil and gas industry
- Chemical industry and petroleum chemistry
- Thermal and nuclear power generation
- General industrial applications



HMS DeLium pumps with capacity up to 3,500 m³/h
Horizontal installation



HMS DeLium pumps with capacity over 3,500 m³/h
Horizontal installation



HMS DeLium pumps
Vertical installation

TECHNICAL DATA

Capacity range	80 – 10,000 m³/h
Pressure head range	5 – 250 m
Maximum discharge pressure	up to 25 kgf/cm²
Shaft power	up to 3,750 kW

Pumped fluid characteristics

Water and similar liquids

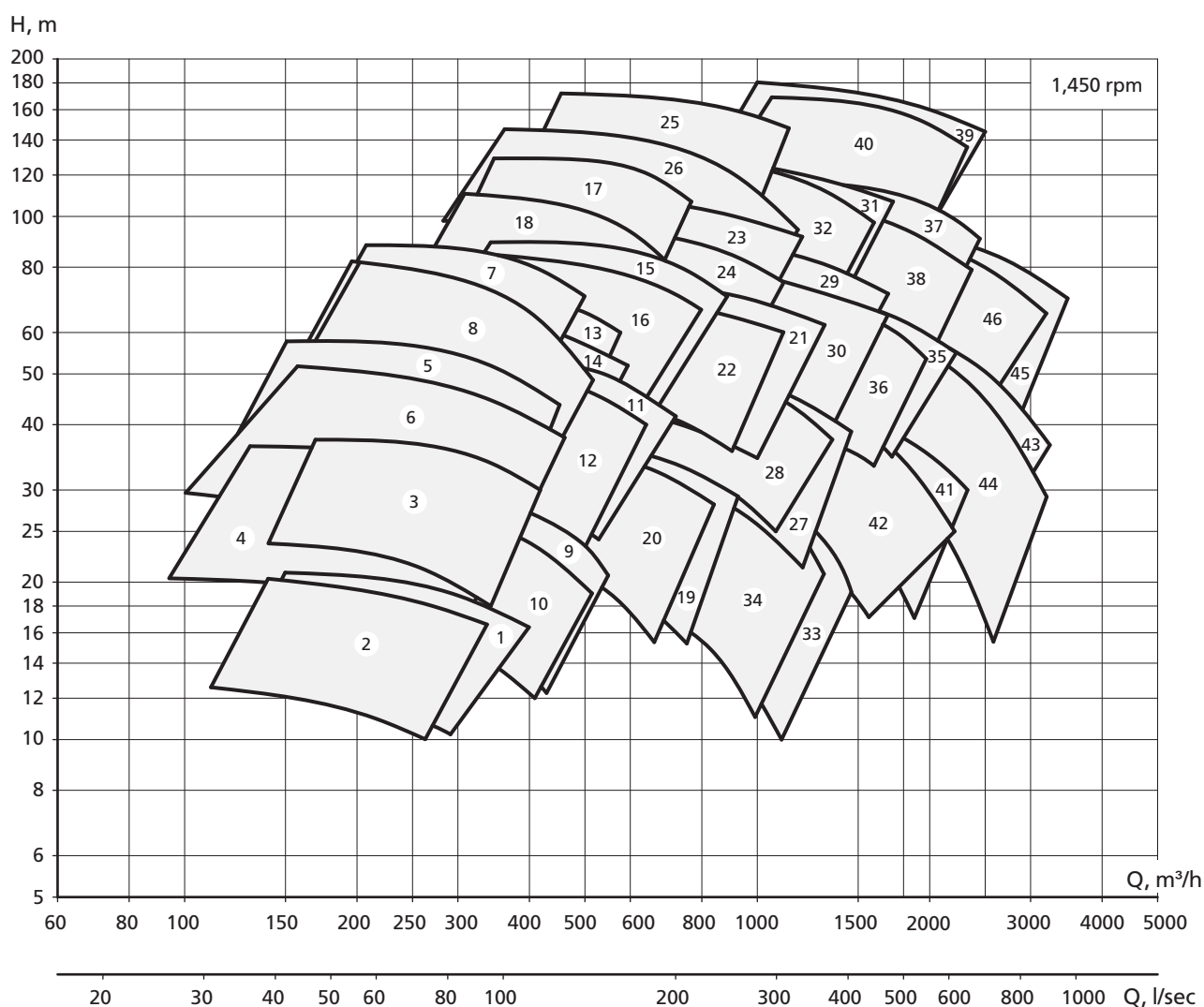
temperature range	+ 1 ... + 150 °C
solids content by mass	up to 0.2 %
solids size	up to 0.2 mm

Oil and petroleum products

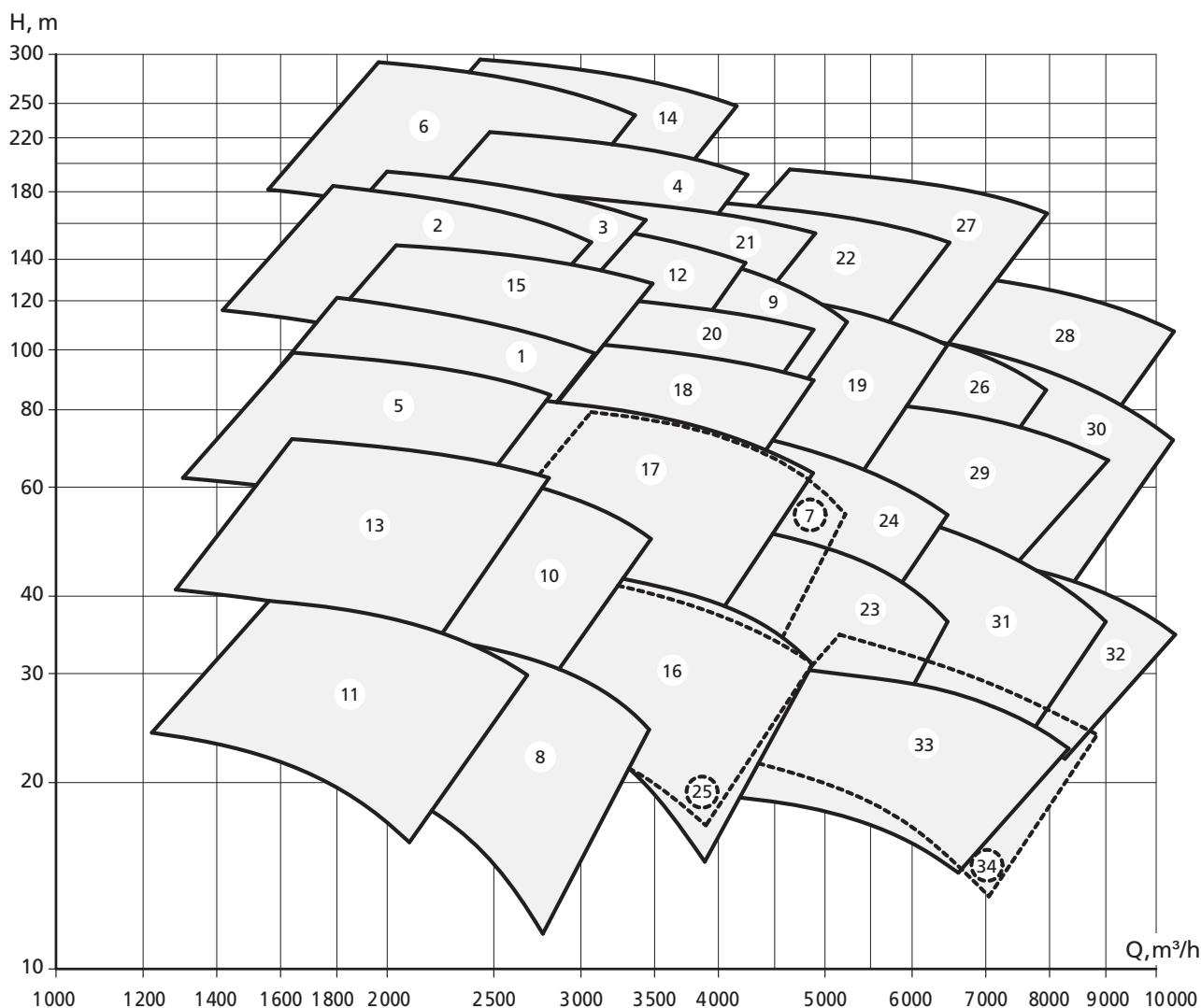
temperature range	+ 1 ... + 105 °C
density range	700 – 1,050 kg/m³
maximum viscosity	100 cSt

Chemically active liquids

temperature range	+ 1 ... + 105 °C
pH factor	pH 1 – 11

PERFORMANCE RANGE**PUMPS WITH CAPACITY UP TO 3,500 m³/h (50 Hz)**

1 - D125-250A	13 - D150-450A	25 - D200-660A	37 - D300-580A
2 - D125-250B	14 - D150-450B	26 - D200-660B	38 - D300-580B
3 - D125-320A	15 - D200-500A	27 - D250-400A	39 - D300-720A
4 - D125-320B	16 - D200-500B	28 - D250-400B	40 - D300-720B
5 - D125-400A	17 - D150-560A	29 - D250-510A	41 - D350-390A
6 - D125-400B	18 - D150-560B	30 - D250-510B	42 - D350-390B
7 - D125-480A	19 - D200-340A	31 - D250-630A	43 - D350-450A
8 - D125-480B	20 - D200-340B	32 - D250-630B	44 - D350-450B
9 - D150-290A	21 - D200-450A	33 - D300-340A	45 - D350-530A
10 - D150-290B	22 - D200-450B	34 - D300-340B	46 - D350-530B
11 - D150-380A	23 - D200-560A	35 - D300-460A	
12 - D150-380B	24 - D200-560B	36 - D300-460B	

PERFORMANCE RANGE**PUMPS WITH CAPACITY OVER 3,500 m³/h (50 Hz)**

1 - D350-580 (1485 rpm)
 2 - D350-700 (1485 rpm)
 3 - D350-725 (1485 rpm)
 4 - D350-800 (1485 rpm)
 5 - D350-800 (985 rpm)
 6 - D350-850 (1485 rpm)
 7 - D400-520 (1485 rpm)
 8 - D400-520 (985 rpm)
 9 - D400-660 (1485 rpm)
 10 - D400-660 (985 rpm)
 11 - D400-660 (745 rpm)

12 - D400-700 (1485 rpm)
 13 - D400-700 (985 rpm)
 14 - D400-880 (1485 rpm)
 15 - D400-990 (985 rpm)
 16 - D500-580 (985 rpm)
 17 - D500-735 (985 rpm)
 18 - D500-825 (985 rpm)
 19 - D500-875A (985 rpm)
 20 - D500-875B (985 rpm)
 21 - D500-1050 (985 rpm)
 22 - D500-1070 (985 rpm)

23 - D600-635 (985 rpm)
 24 - D600-720 (985 rpm)
 25 - D600-720 (745 rpm)
 26 - D600-870 (985 rpm)
 27 - D600-1135 (985 rpm)
 28 - D700-1000A (985 rpm)
 29 - D700-1000B (745 rpm)
 30 - D700-850A (985 rpm)
 31 - D700-850A (745 rpm)
 32 - D700-780 (745 rpm)
 33 - D700-780 (595 rpm)
 34 - D700-700 (745 rpm)

PUMP SERIES DESIGNATION

Designation example

model **DV 220-660-A-b-C/C-t-E**, where:

	DV	200	-	660	-	A	-	b	-	C/C	-	t	-	E
D – DeLium - pump series														
V – vertical installation (no V index – horizontal installation)														
Discharge nozzle rated diameter, mm														
Impeller diameter (rounded figure), mm														
Impeller standard type version (A, B)														
Impeller trimming index (a, b) or actual diameter in millimeters														
Pump casing and impeller construction materials														
Shaft seal type: t – single mechanical seal tc – single mechanical seal with auxilliary seal tt – double mechanical seal no index – gland seal														
Explosion-proof pump version (option)														

MATERIAL OPTIONS

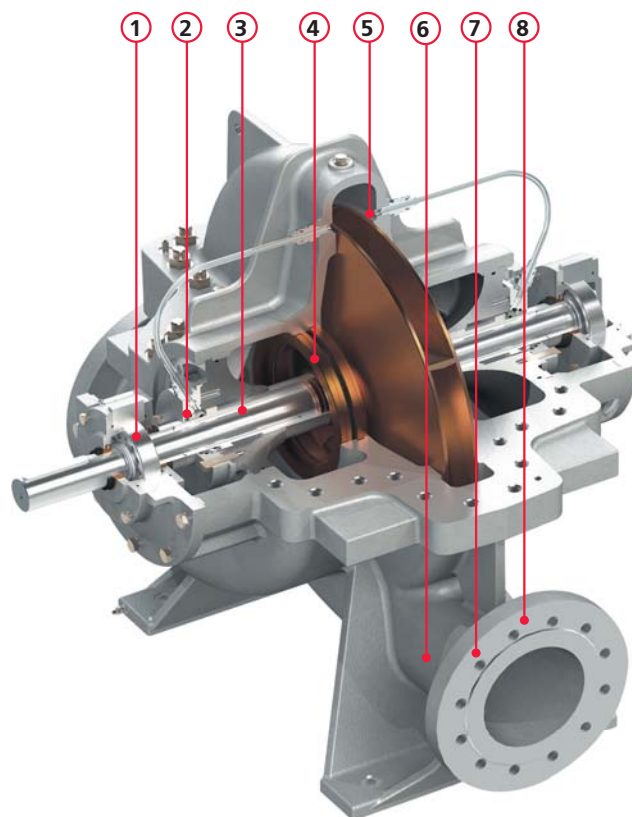
Material combinations*	Volute casing	Impeller	Casing wear ring	Impeller wear ring (optional)	Shaft
G / G	Grey Cast Iron	Grey Cast Iron	Grey Cast Iron	Grey Cast Iron	Stainless Steel
G / B	Grey Cast Iron	Bronze	Bronze	Bronze	
GG / B	Nodular Cast Iron	Bronze	Bronze	Bronze	
GG / S	Nodular Cast Iron	Stainless steel	Stainless Steel	Stainless Steel	
C / C	Carbon Steel	Carbon Steel	Carbon Steel	Carbon Steel	
C / S	Carbon Steel	Stainless steel	Stainless Steel	Stainless Steel	Duplex/ Super Duplex Steel
S / S	Stainless steel	Stainless steel	Stainless Steel	Stainless Steel	
D / D	Duplex/Super Duplex Steel	Duplex/Super Duplex Steel	Duplex/Super Duplex Steel	Duplex/Super Duplex Steel	

* abbreviations of casing and impeller material combinations: G - Grey cast iron; B - bronze; GG - nodular cast iron; S - stainless steel; C - carbon steel; D - duplex steel

DESIGN FEATURES

1. Standard or heavy-duty bearings (with service life of at least 100,000 hours) with grease or oil bath lubrication including the cooling system (optional)
2. Shaft seals:
 - gland seal
 - unbalanced single-acting mechanical seal for operating pressures below 1.6 MPa
 - balanced mechanical seal for operating pressures over 1.6 MPa
 - double-acting mechanical seal of a cartridge type
3. The shaft is completely insulated from the pumped fluid. All details on the rotor are fixed by the one nut insulated from the pumped fluid.
4. The pump version with impeller replaceable wear rings is optionally available
5. Optimized flow path hydraulics with maximum efficiency
6. The suction and discharge nozzles are in-line arranged
7. The casing with double volute reduces radial load on the pump shaft and bearings that extends their operational lifetime
8. Flanges design is available in accordance with ISO, DIN, ANSI standards

No gasket is applicable between the pump casing and its cover. Liquid sealant is used for cover sealing.



SCOPE OF SUPPLY

Pump

- pump
- connection coupling
- coupling guard
- pump frame

Options

- commissioning toolkit
- automation and control instruments
- spare parts set for commissioning

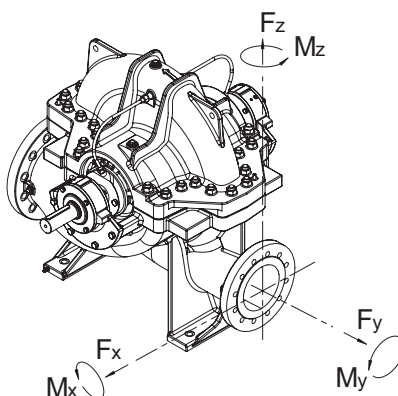
Pumping Unit

- pump (including parts and options) from the scope of supply of the bare shaft pump
- electric motor
- base frame

Options

- frequency converter
- unit control panel
- spare parts set
- bearing temperature probes
- vibration sensors

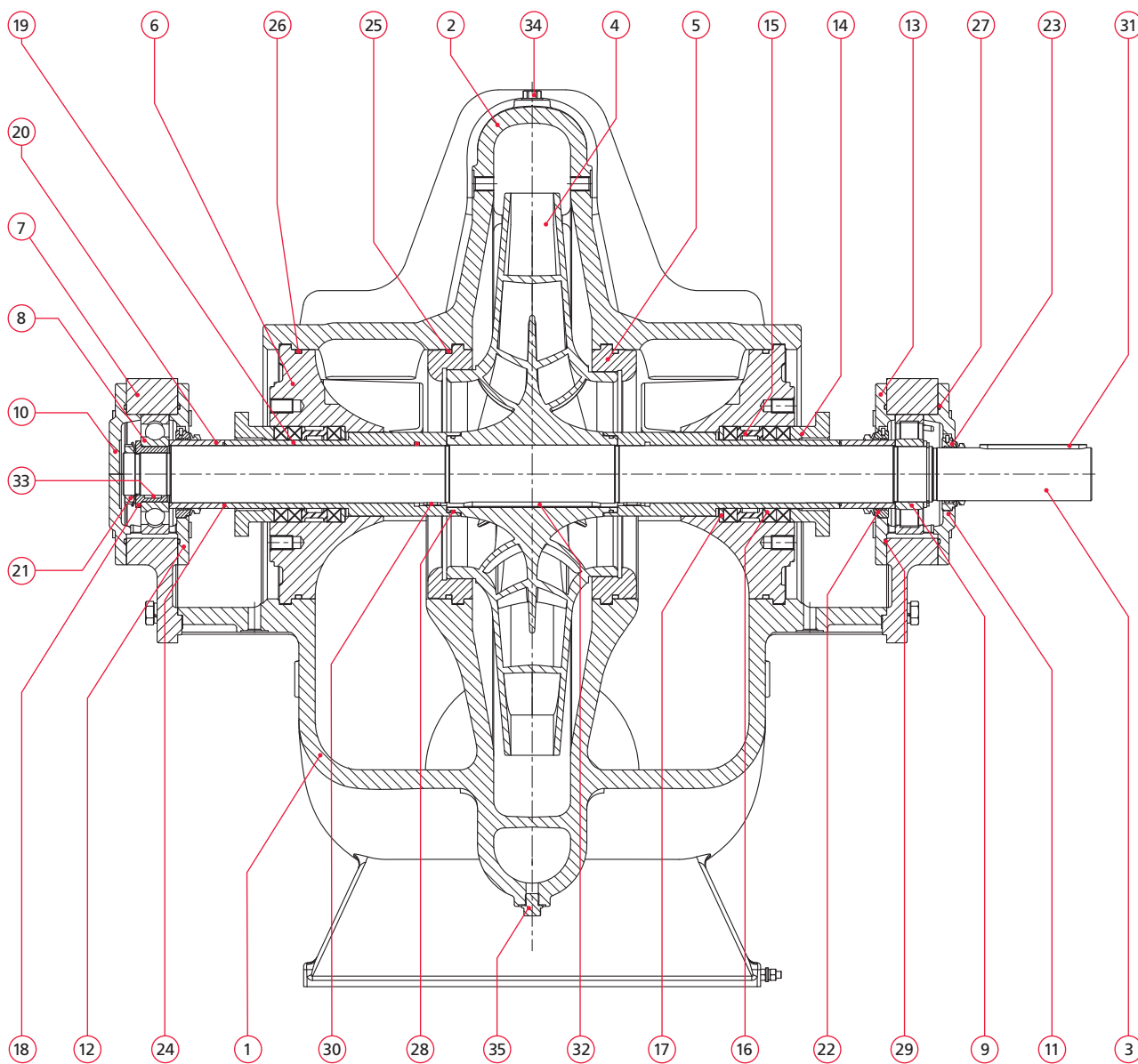
FLANGES ADMISSIBLE LOAD



	Admissible load by axis, N Fx, Fy, Fz				Admissible force moments Mx, My, Mz to nozzles, H*m					
	1	2	1	2	1	2	1	2		
	Suction	Discharge	Suction	Discharge	Suction	Discharge	Suction	Discharge		
D125-250	4000	2000	5600	2800	2750	1500	3850	2100		
D125-320										
D125-400										
D125-480										
D150-290	4000	2500	5600	3500	2750	2500	3850	2800		
D150-380										
D150-450										
D150-560										
D200-340	4000		5600		2750		3850			
D200-450										
D200-500										
D200-560										
D200-660					3000	2750	4200	3850		
D250-400										
D250-510	5000		7000		3000		4200			
D250-630										
D300-340										
D300-460										
D300-580	5000	4000	7000	5600	3000		4200			
D300-720										
D350-390										
D350-450	5000		7000		3000		4200			
D350-530										
D350-580										
D350-725	5000		5900		3300		4600			
D400-520										
D400-660										
D400-700										
D400-800	6900		9700		3800		5300			
D400-990										
D500-580										
D500-735										
D500-825	8800		12300		6000		8400			
D500-1050										
D600-635										
D600-720										
D500-875	10700		15000		6000		8400			
D500-1070										
D600-870										
D600-1135										
D700-850	12600		17600		7100		9900			
D700-1000										

1 – Grey cast iron. 2 – Nodular cast iron, steel, duplex steel

CROSS-SECTION DRAWING OF PUMPS WITH CAPACITY UP TO 3,500 m³/h HORIZONTAL INSTALLATION

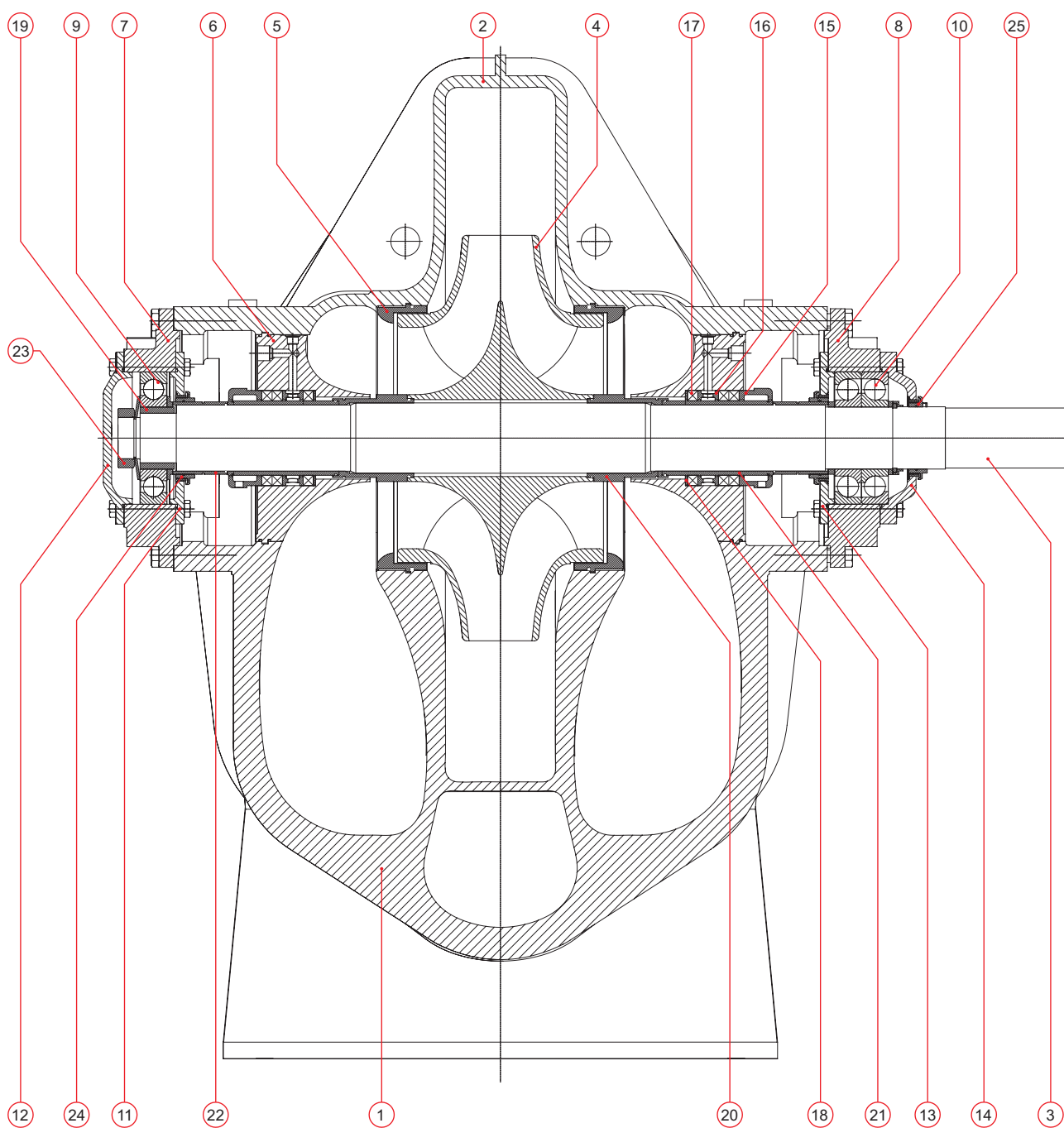


- 1. Casing
- 2. Casing cover
- 3. Shaft
- 4. Impeller
- 5. Wearing rings
- 6. Seal casing
- 7. Bearings casing

- 8. Ball bearing
- 9. Roller bearing
- 10-13. Bearing casing cover
- 14. Gland seal casing cover
- 15. Gland ring
- 16. Gland seal stuffing
- 17. Gland bush

- 18. Bearing bush
- 19. Protective bush
- 20. Shaft bush
- 21. Clamping nut
- 22 - 23. Labyrinth sealing
- 24 - 29. Sealing ring
- 30 - 33. Pin
- 34 - 35. Plug

CROSS-SECTION DRAWING OF PUMPS WITH CAPACITY OVER 3,500 m³/h HORIZONTAL INSTALLATION

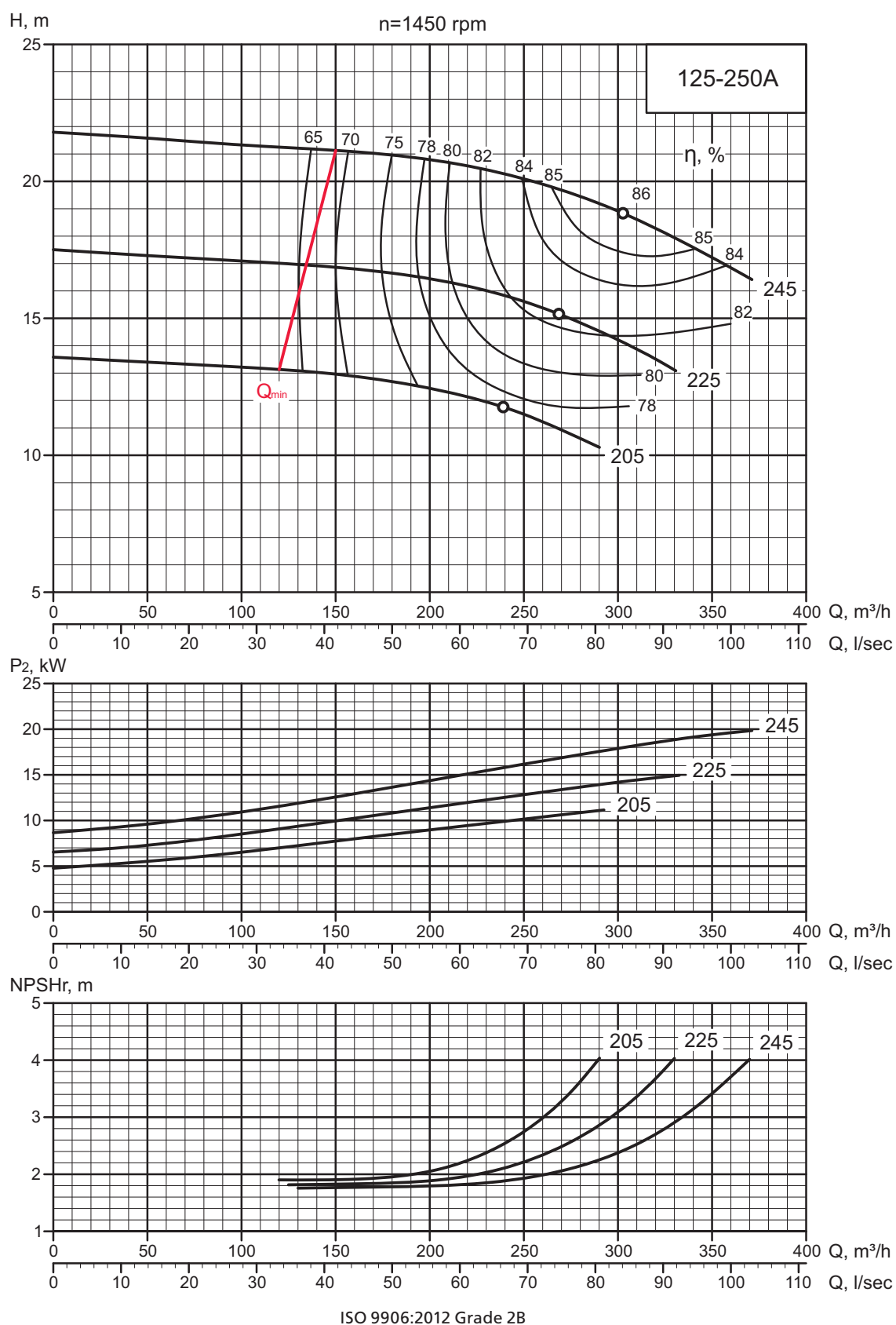


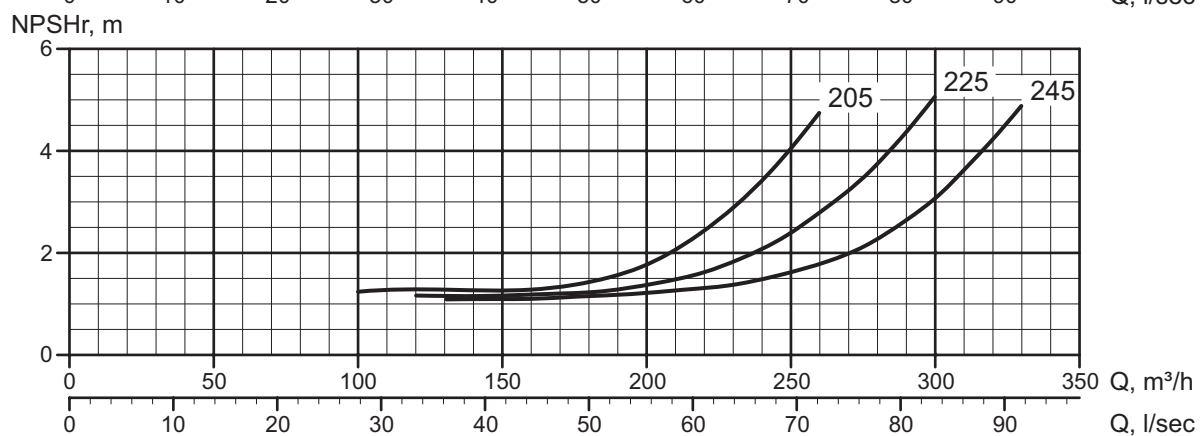
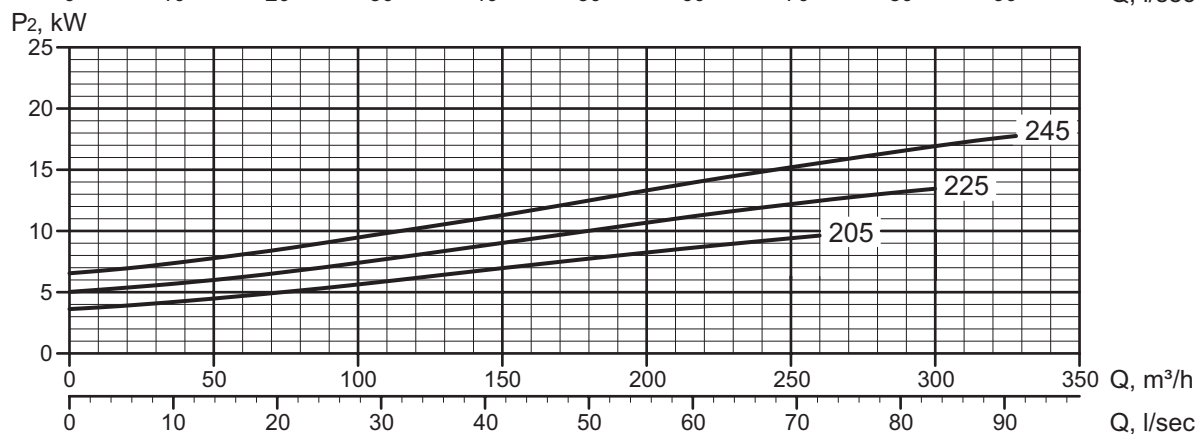
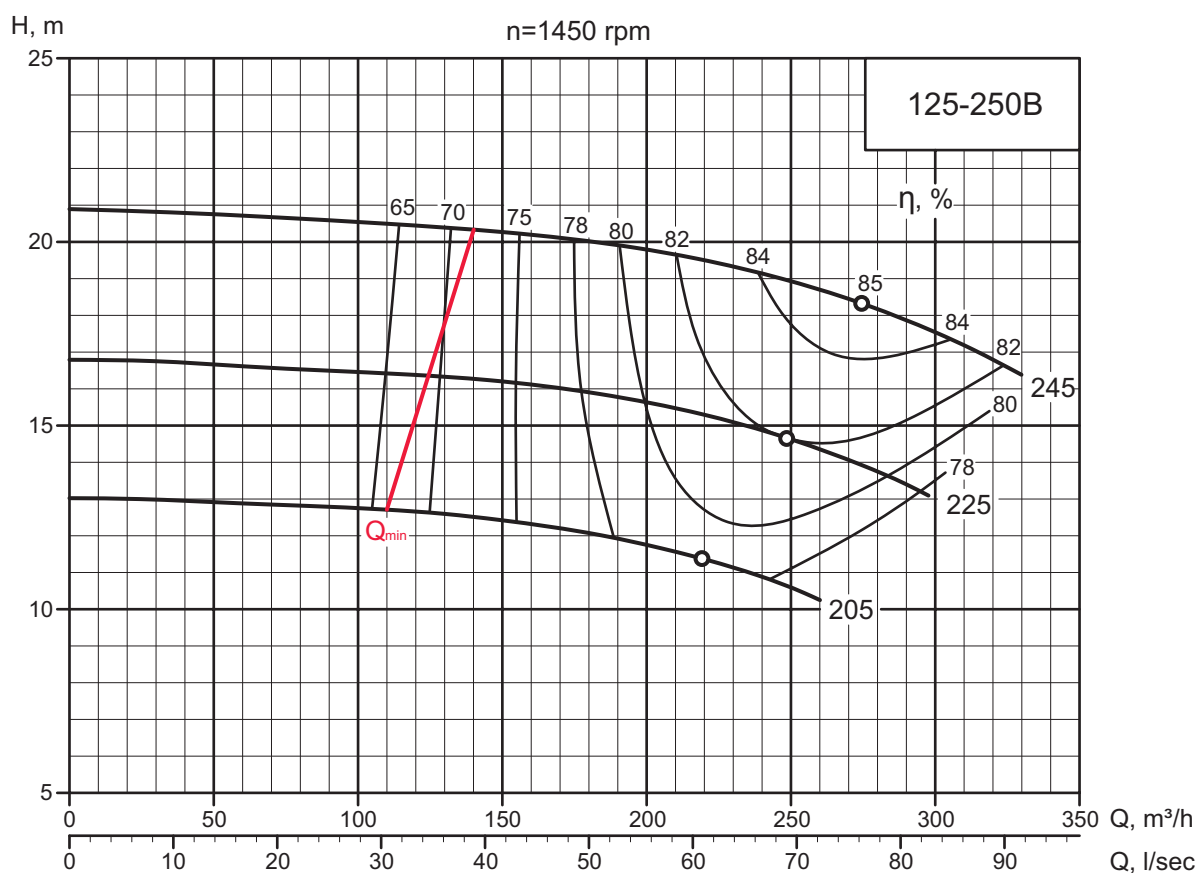
- 1. Casing
- 2. Casing Cover
- 3. Shaft
- 4. Impeller
- 5. Wearing rings
- 6. Seal casing

- 7-8. Bearing casing
- 9. Roller bearing
- 10. Radial-thrust bearing
- 11-14. Bearing casing cover
- 15. Gland seal casing cover
- 16. Gland ring

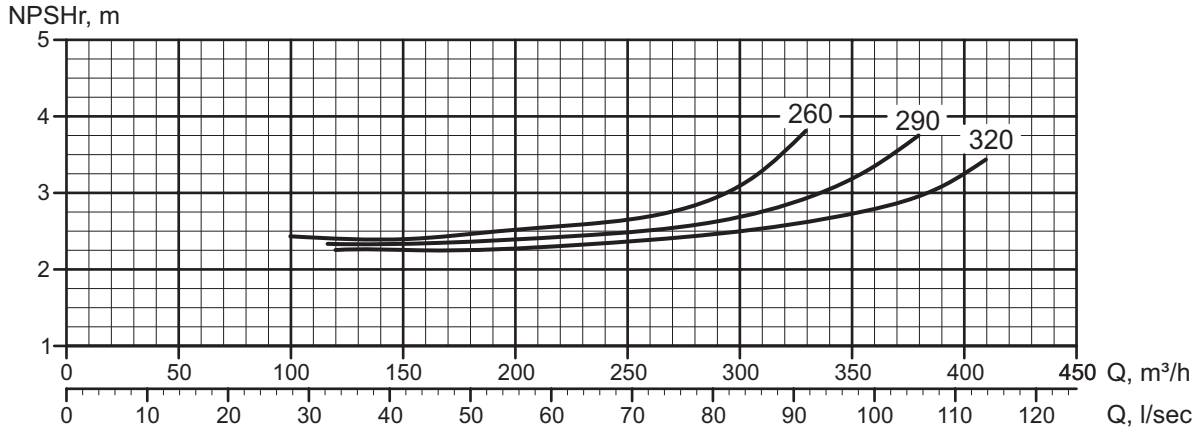
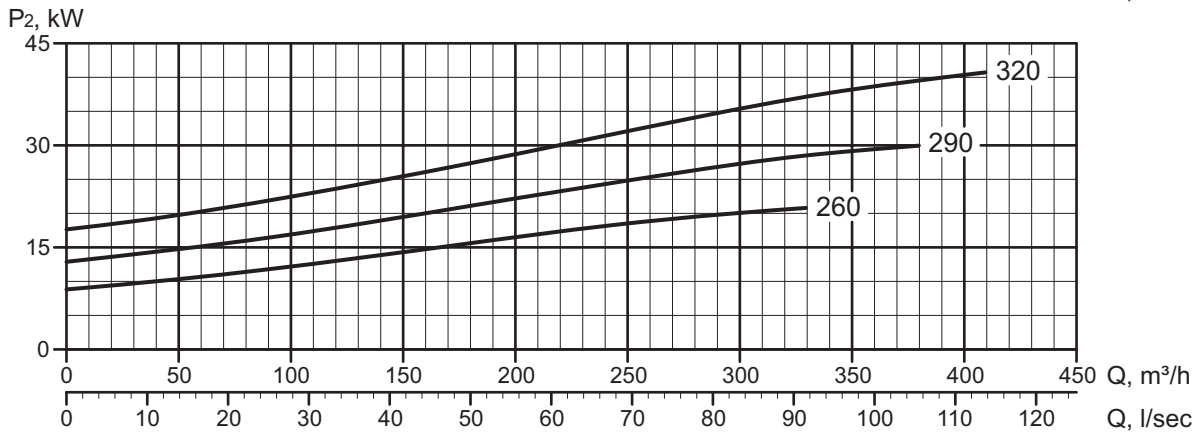
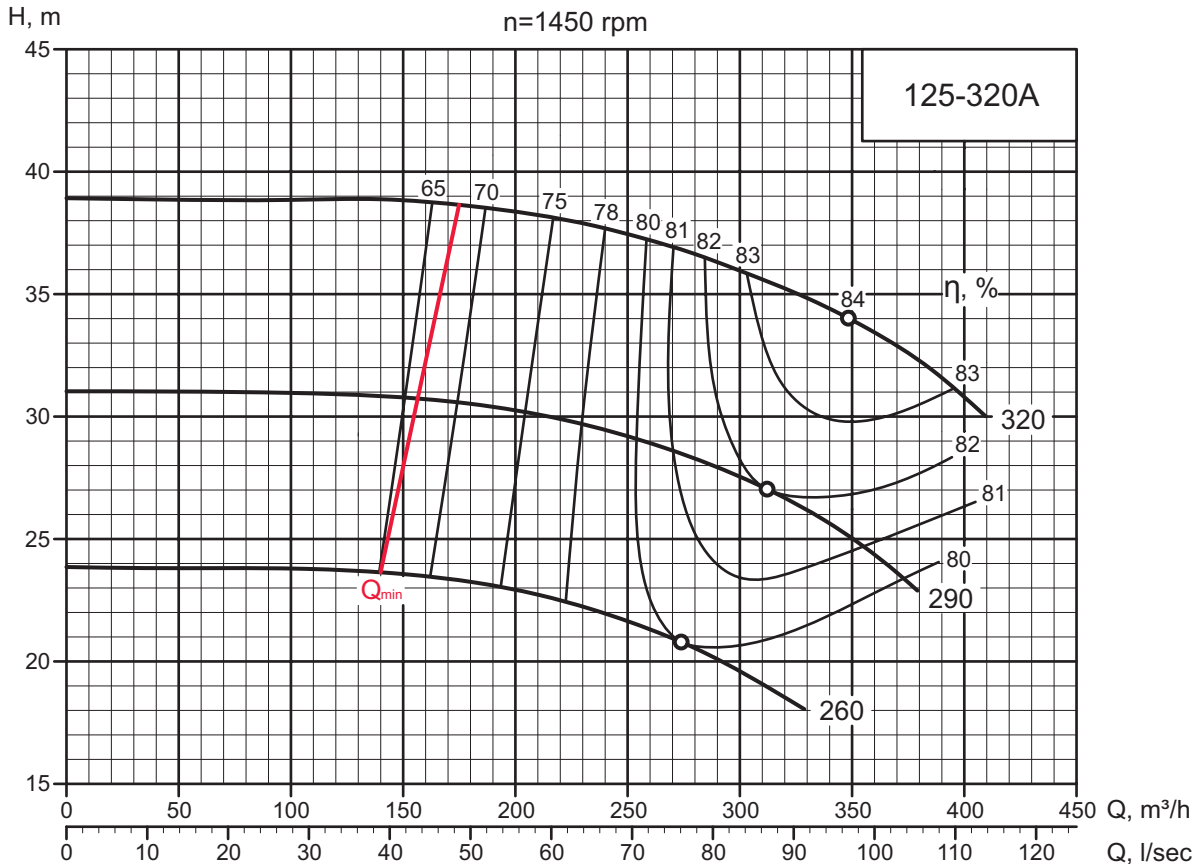
- 17. Gland seal stuffing
- 18. Gland bush
- 19. Bearing bush
- 20-22. Shaft bush
- 23. Clamping nut
- 24-25. Labyrinth seal

Performance Curves

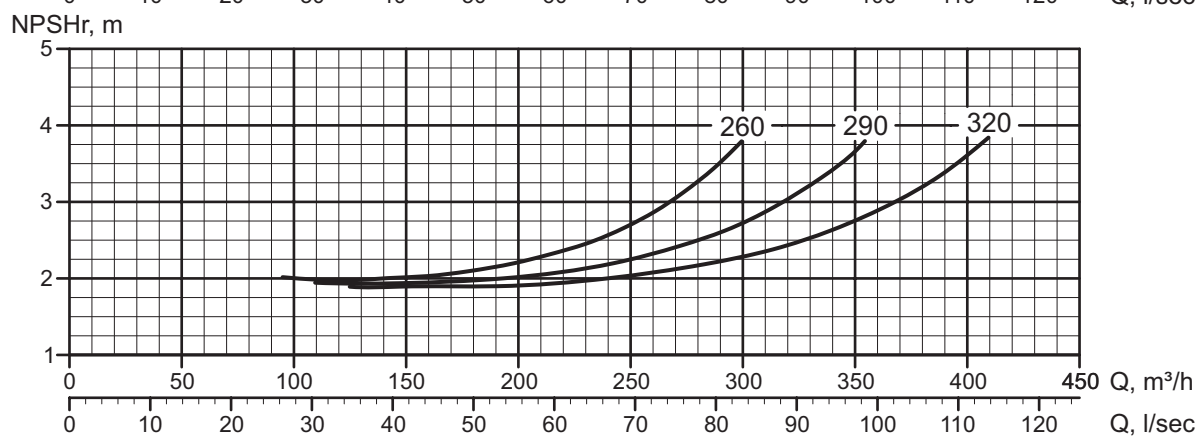
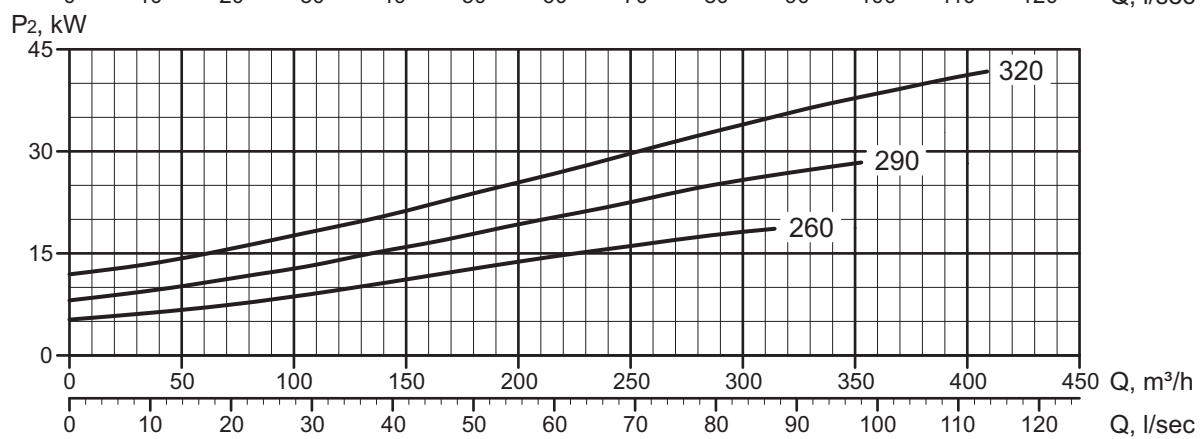
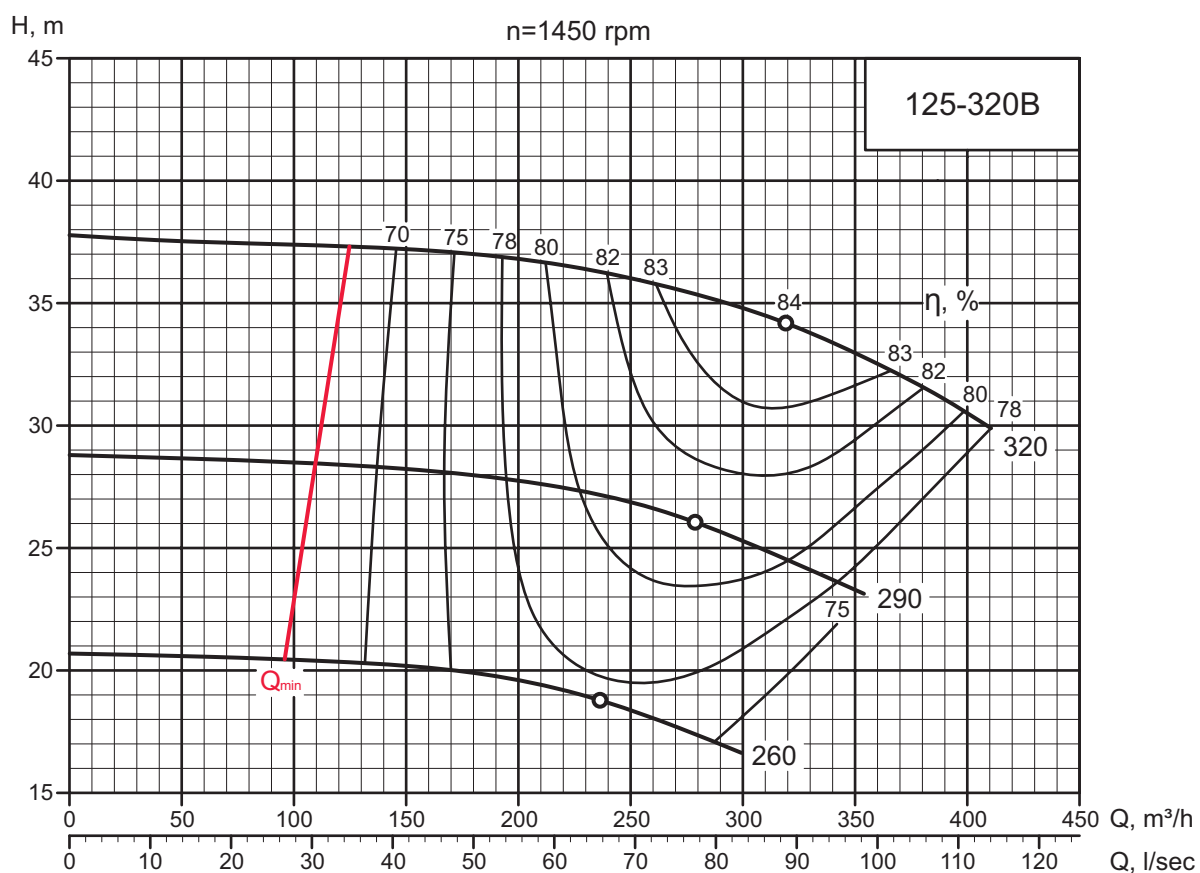




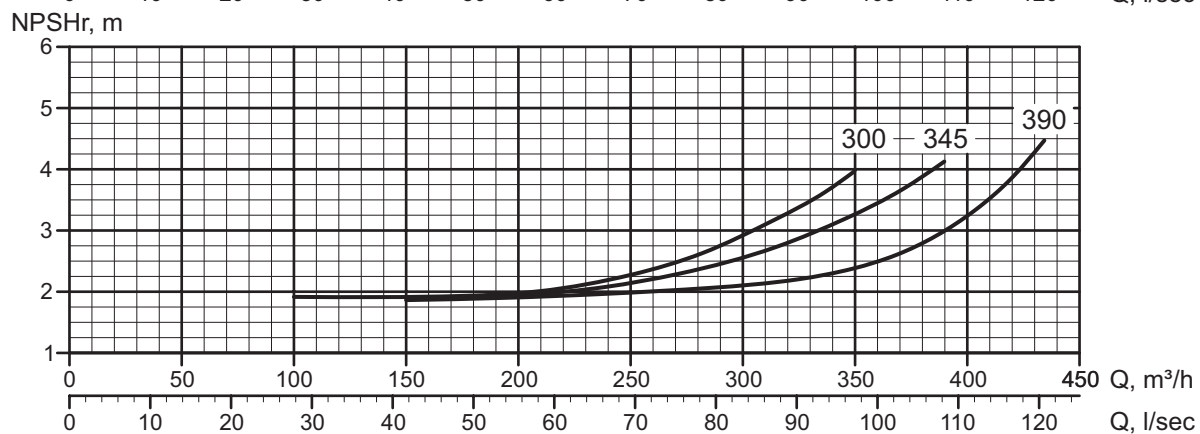
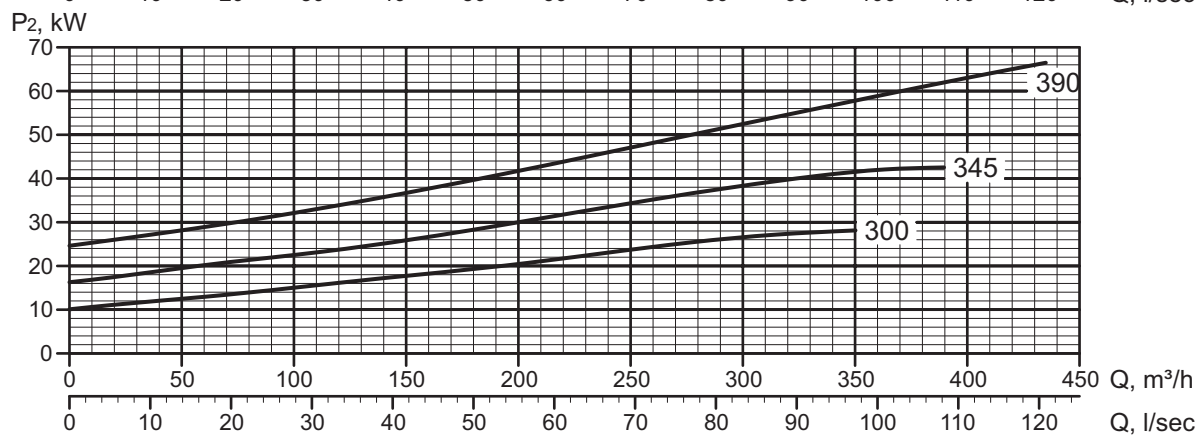
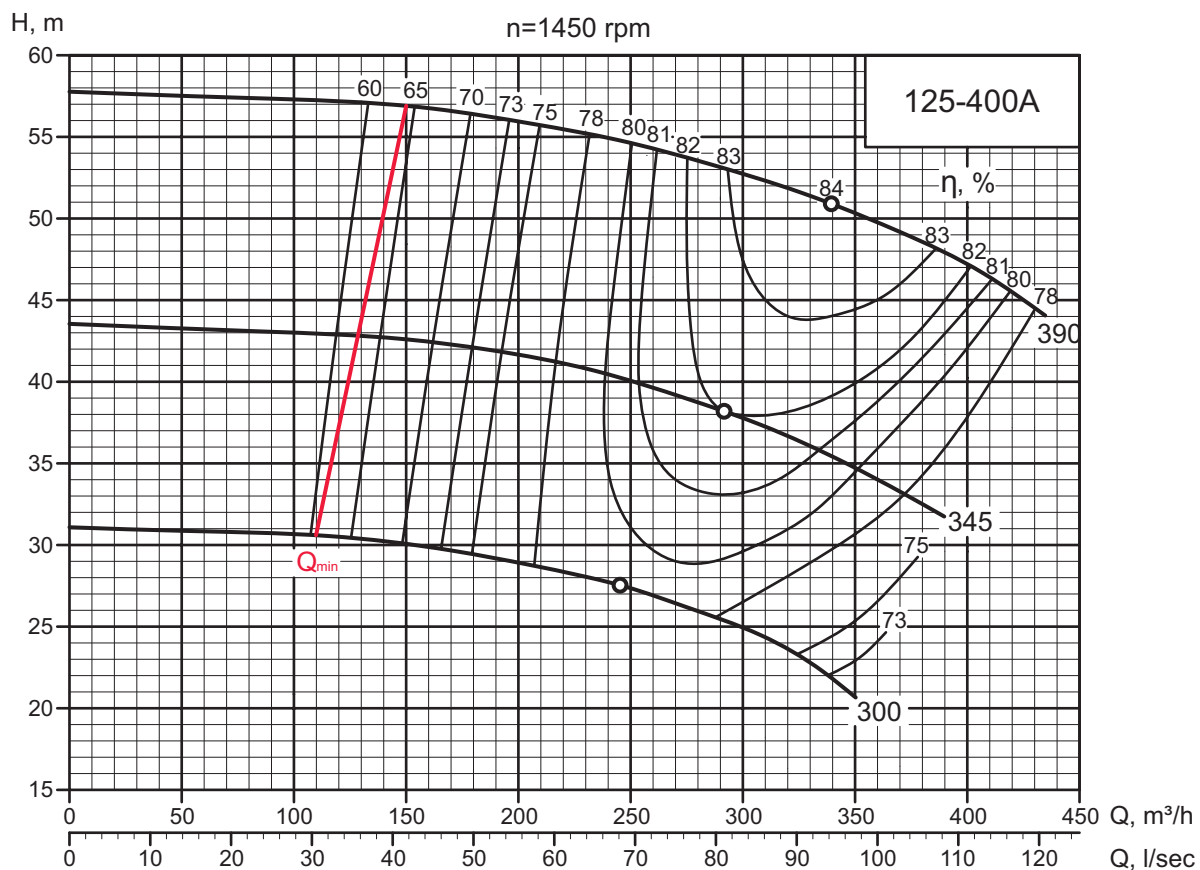
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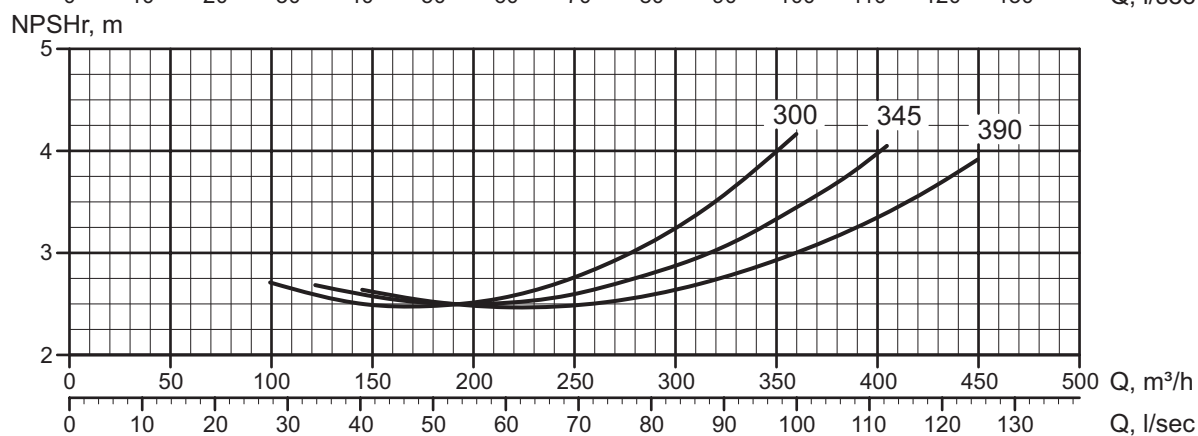
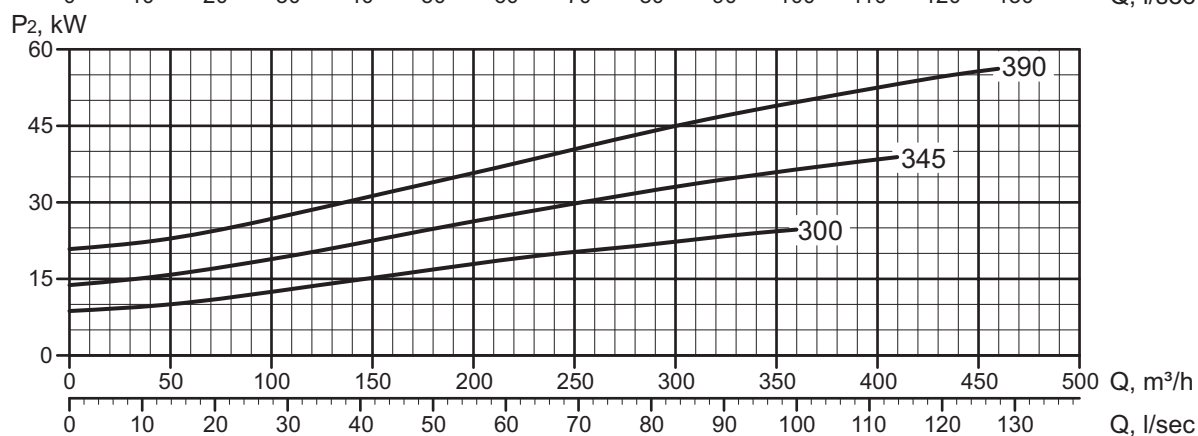
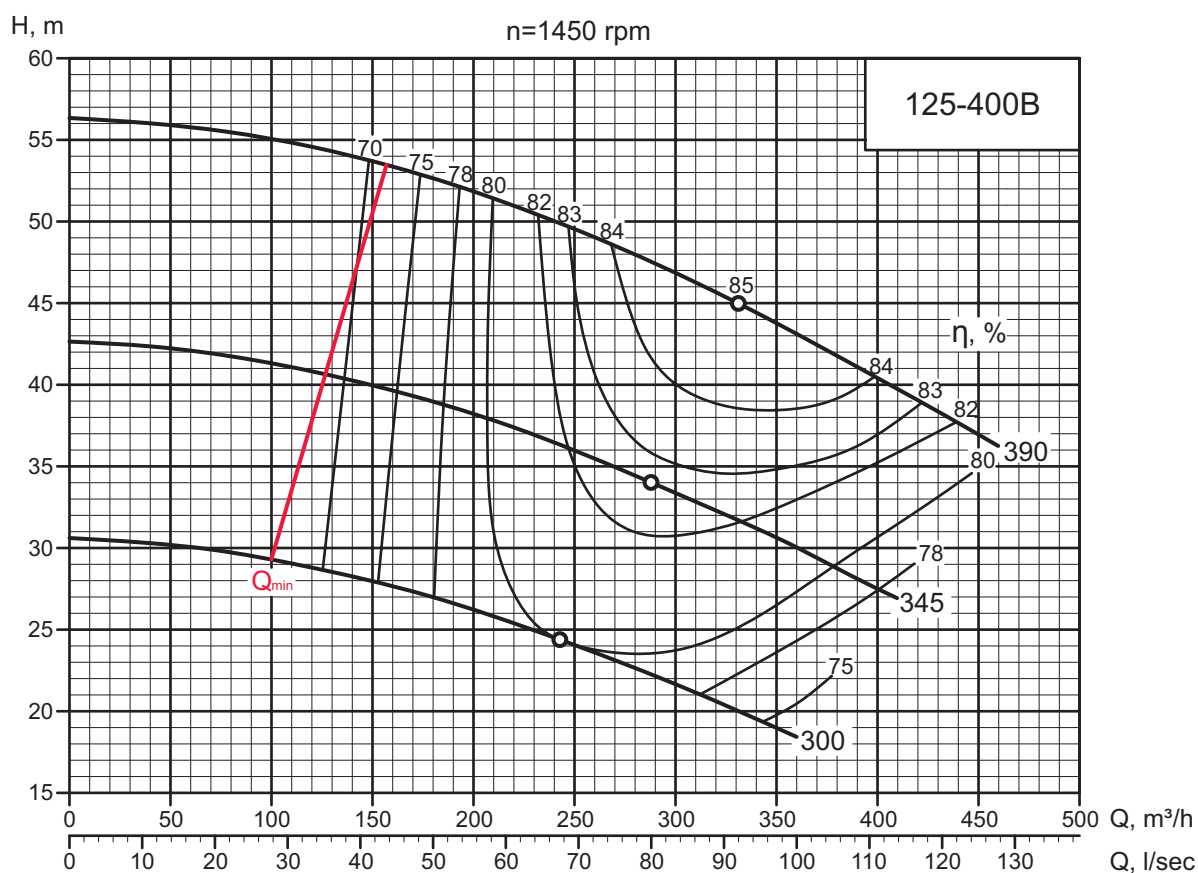
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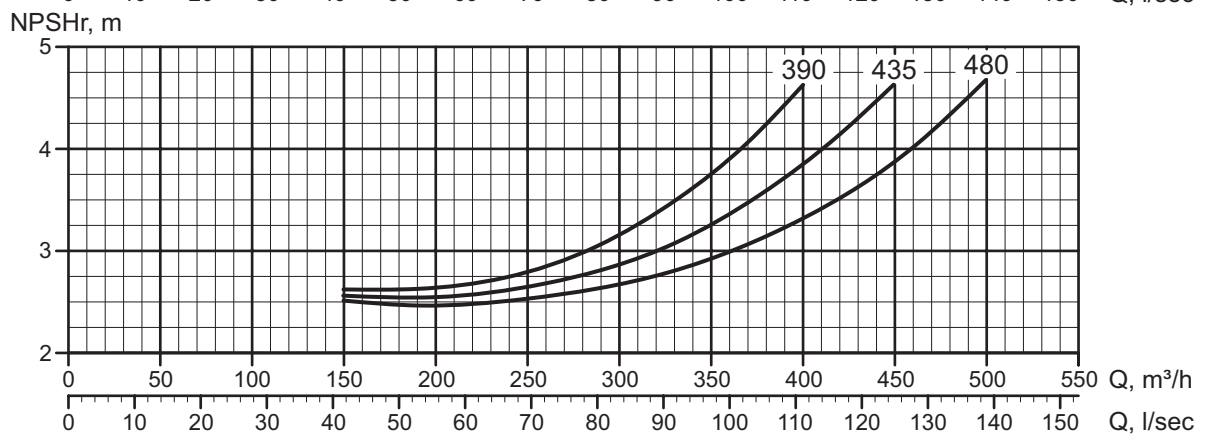
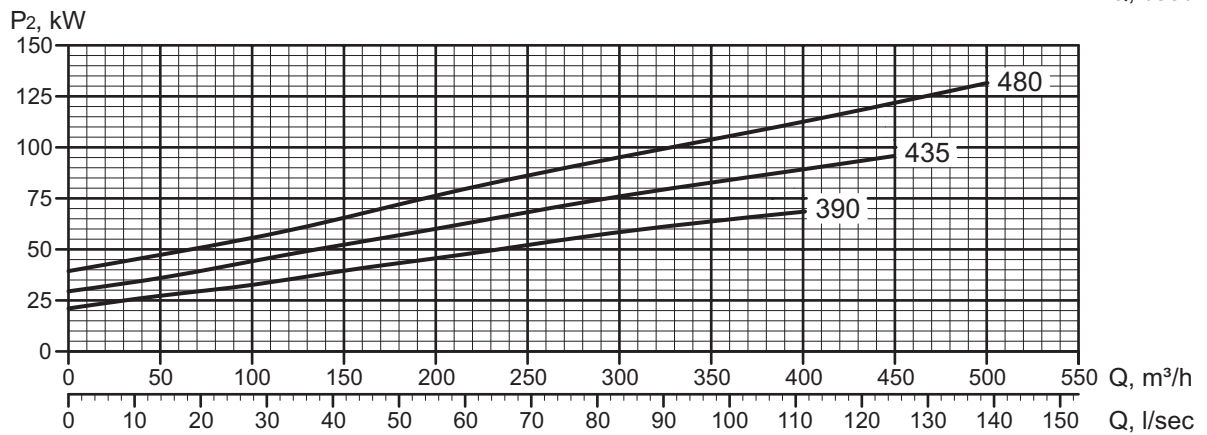
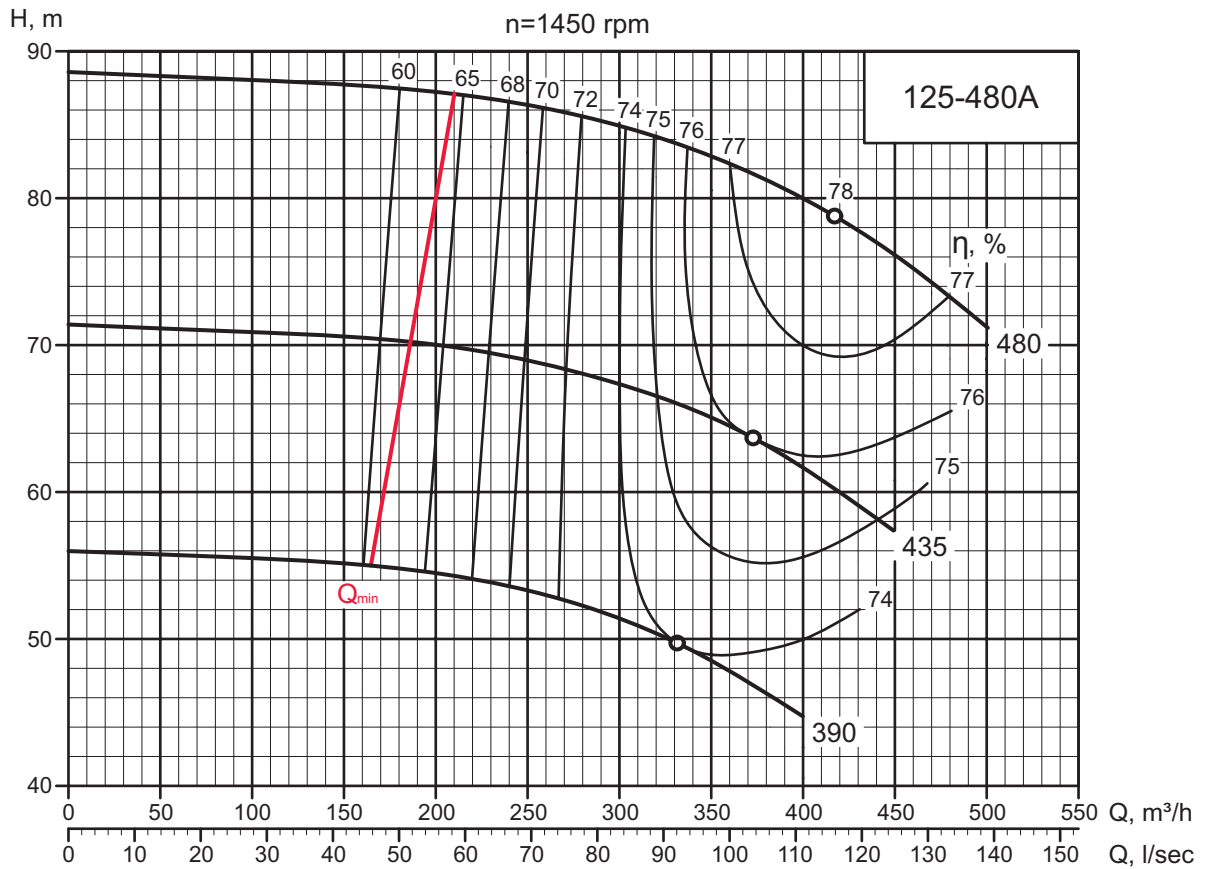
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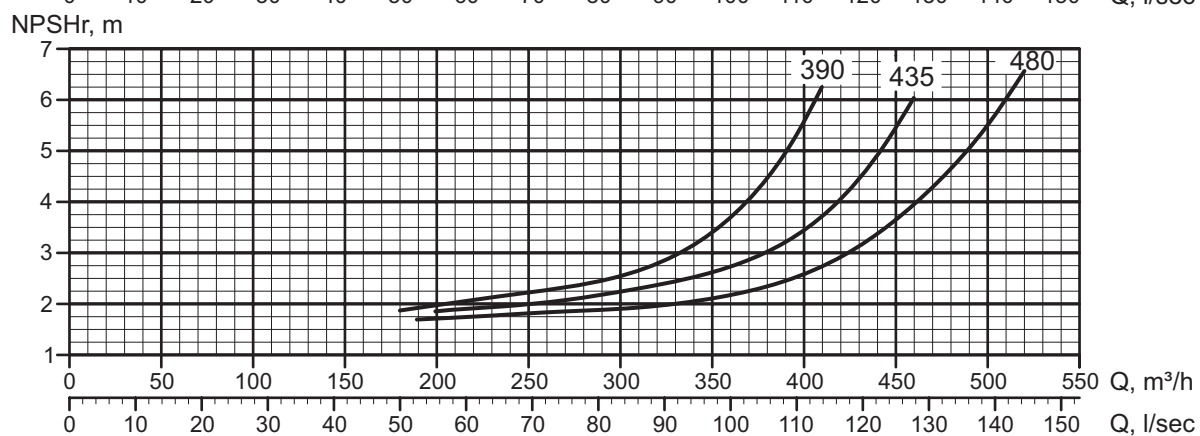
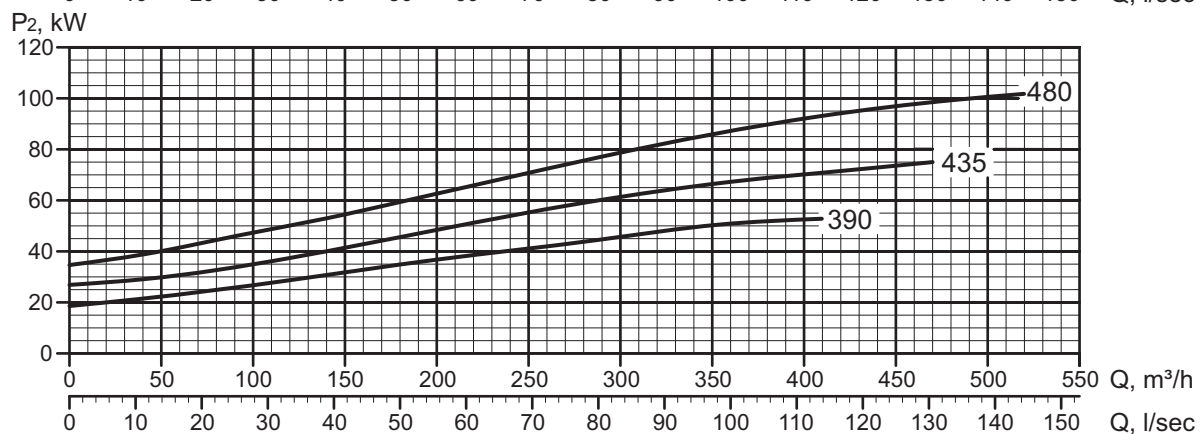
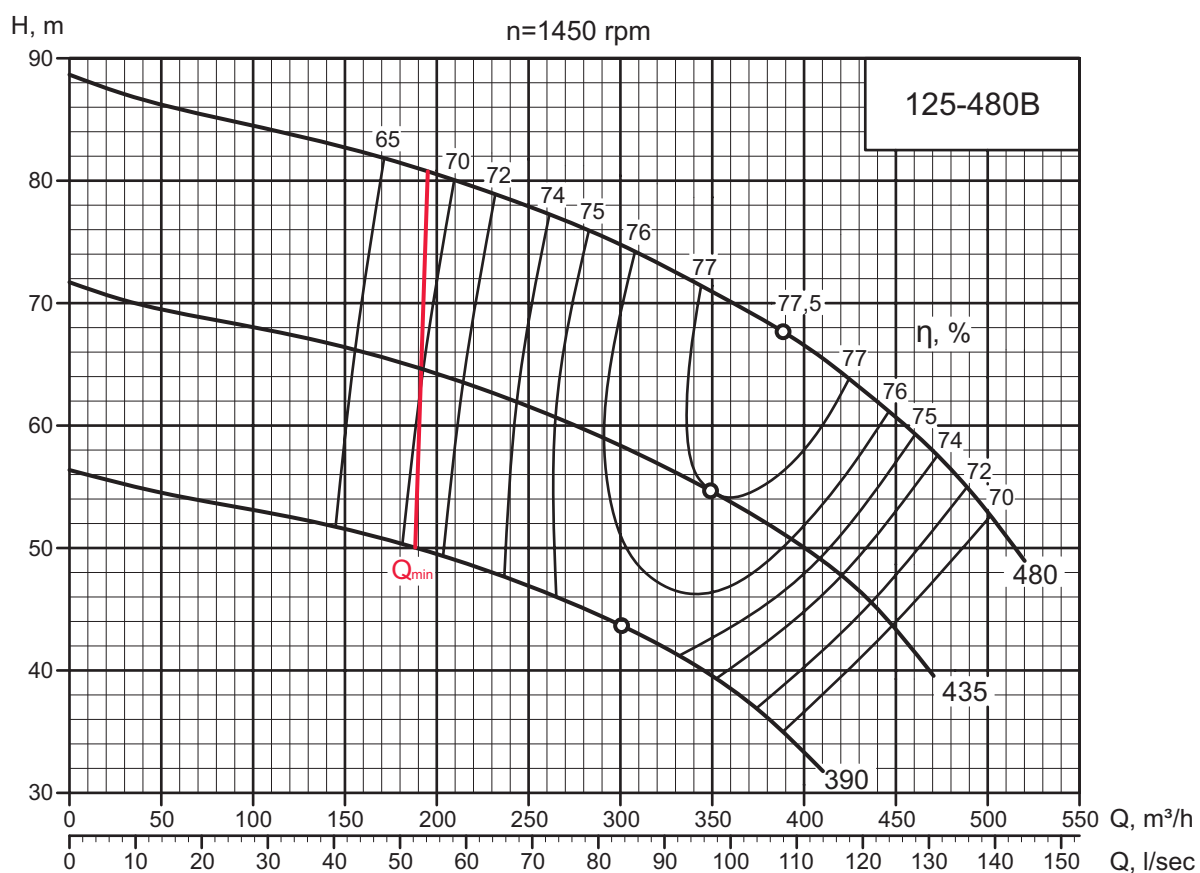
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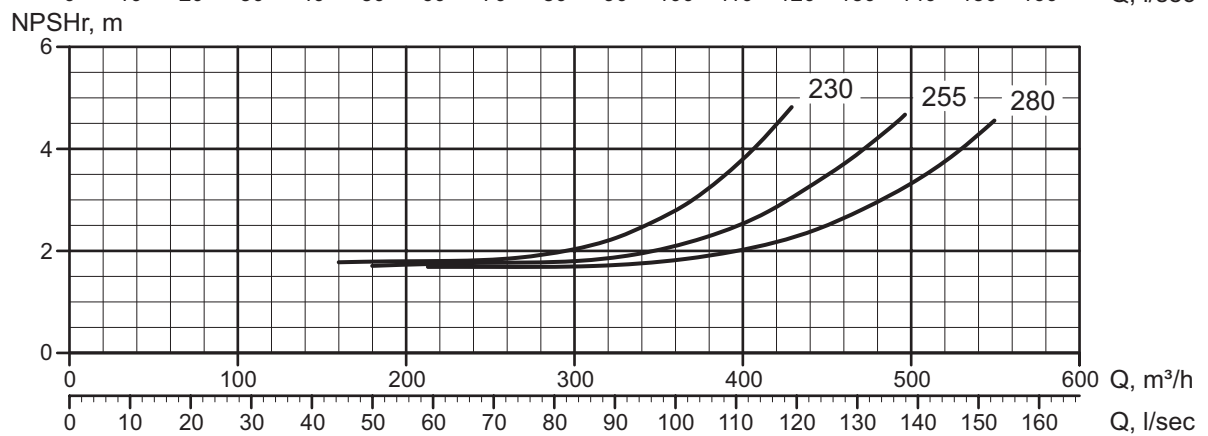
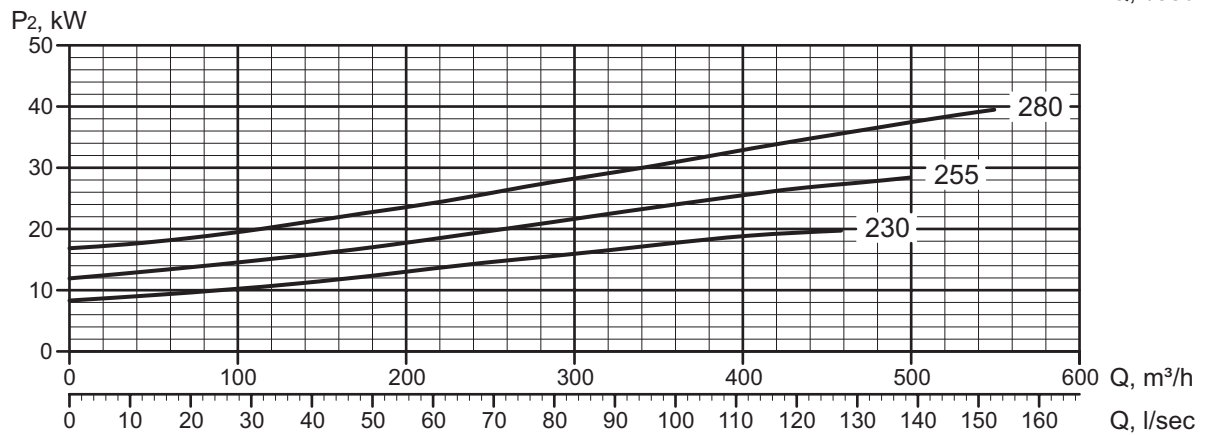
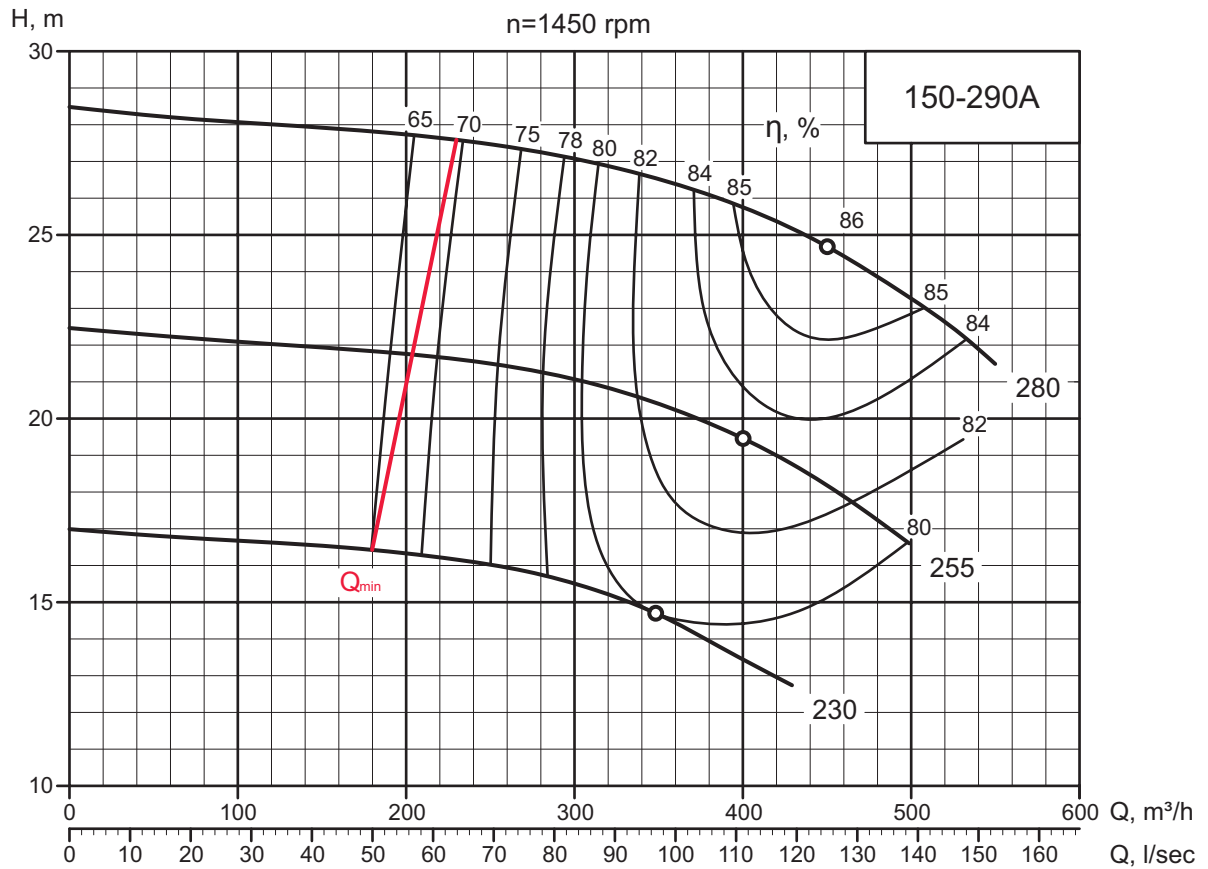
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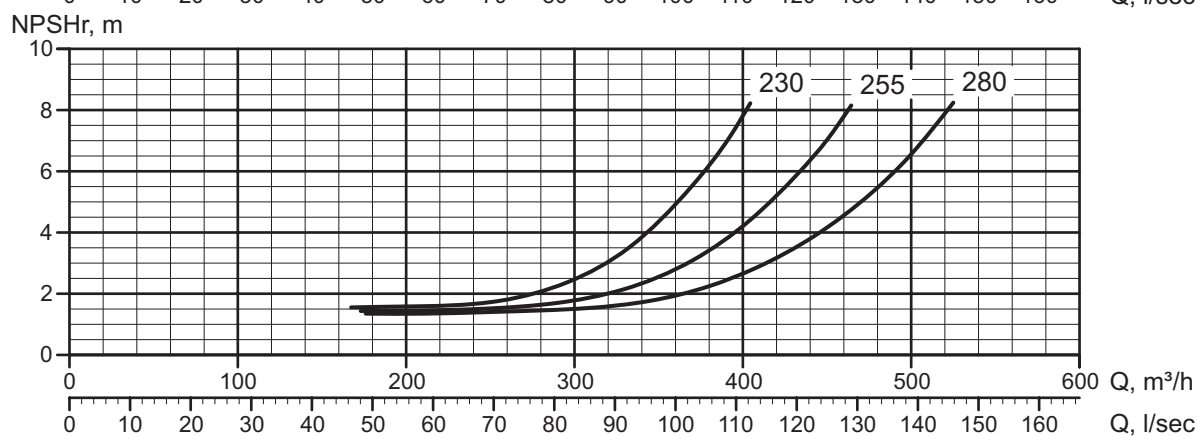
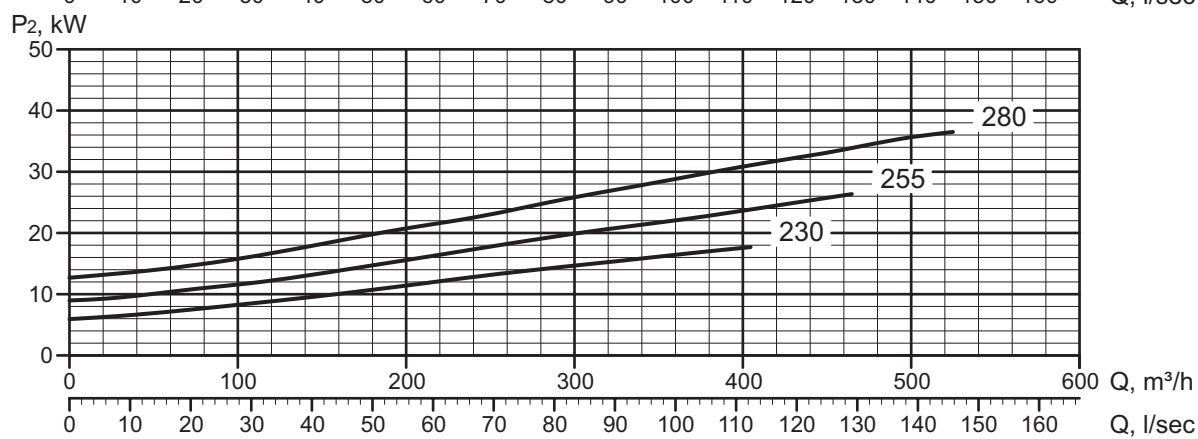
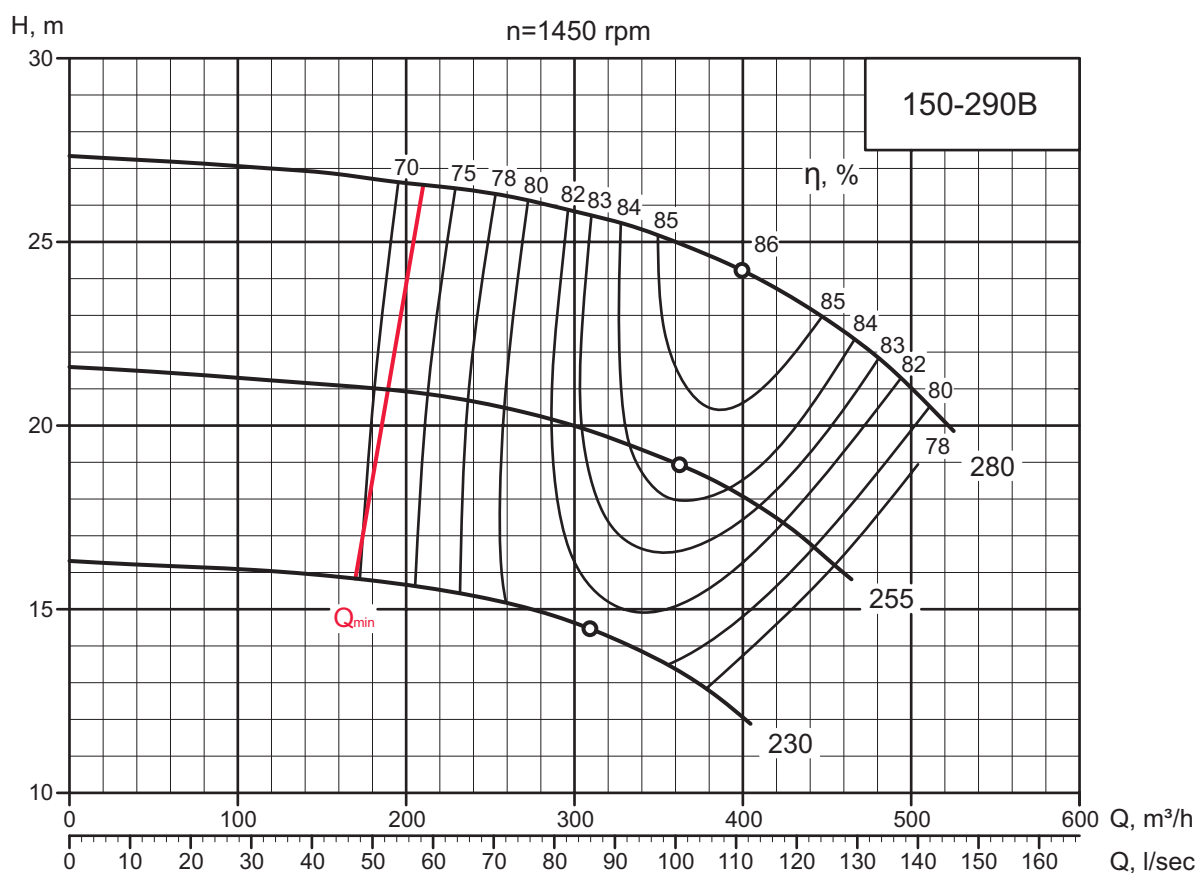
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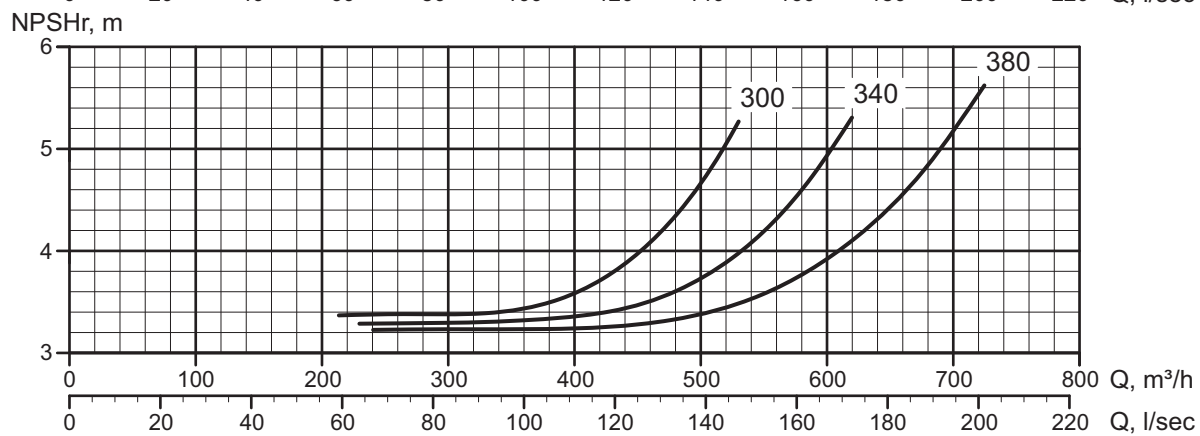
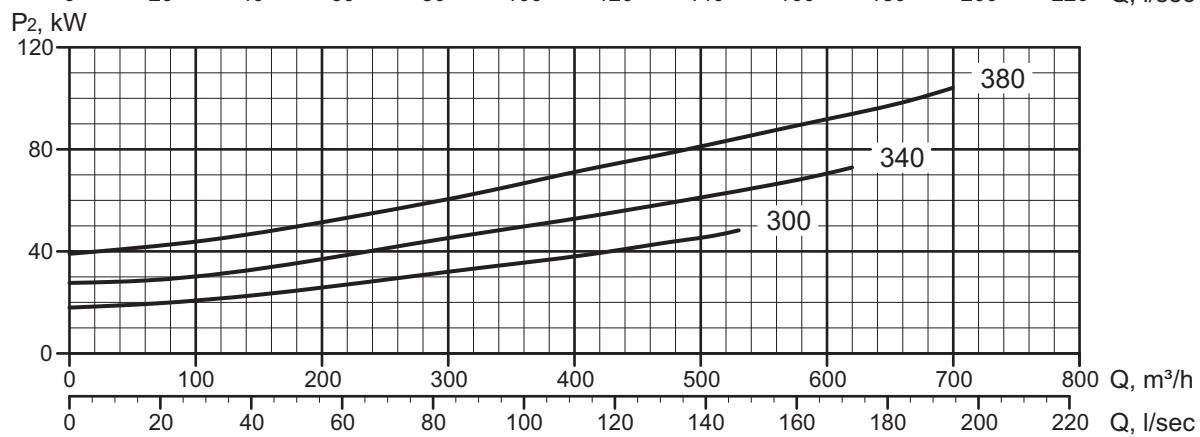
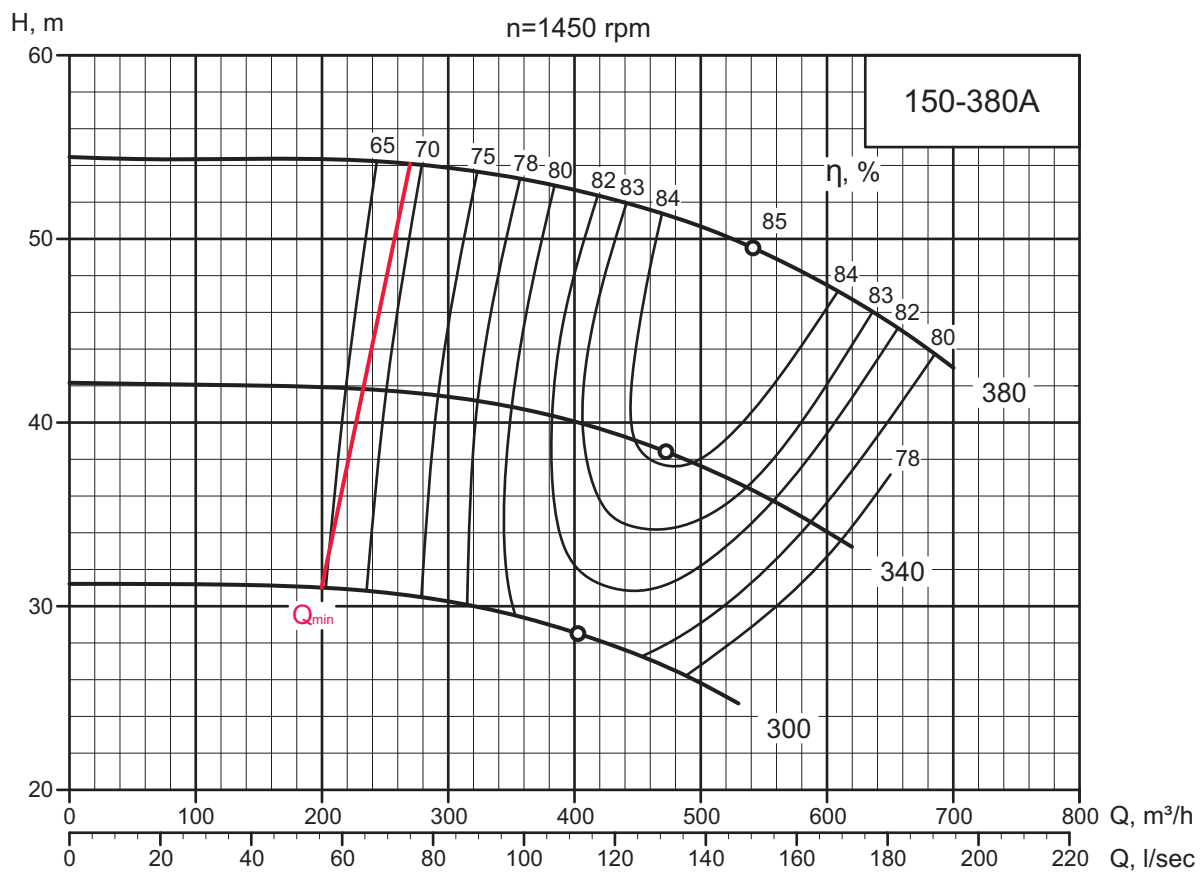
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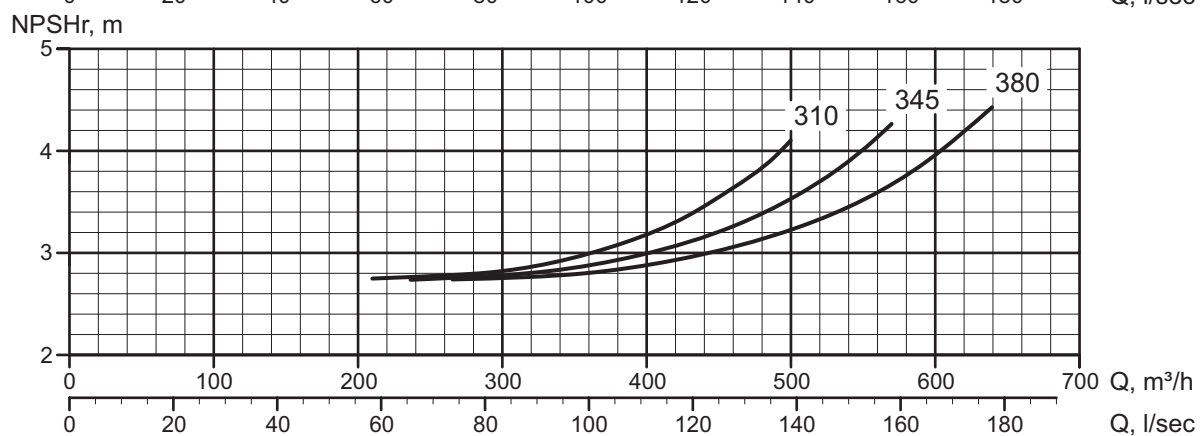
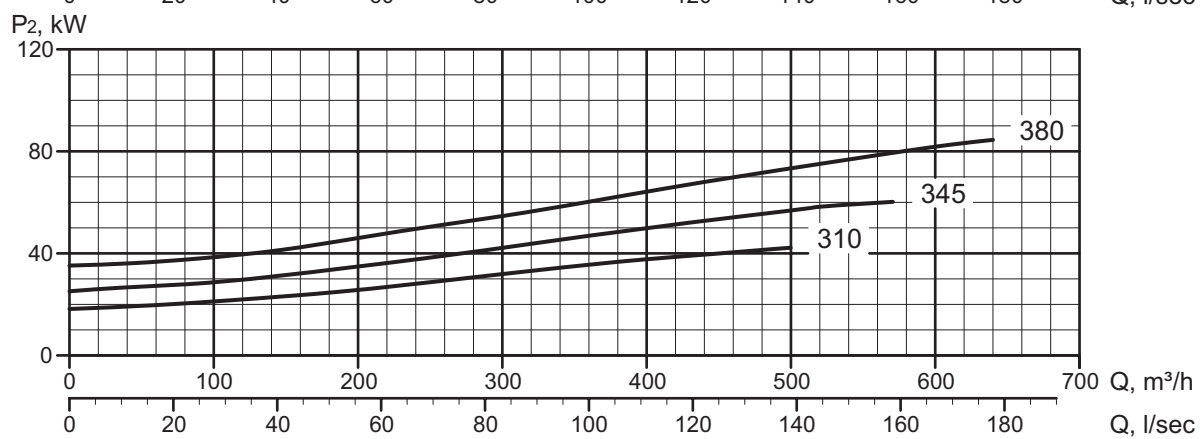
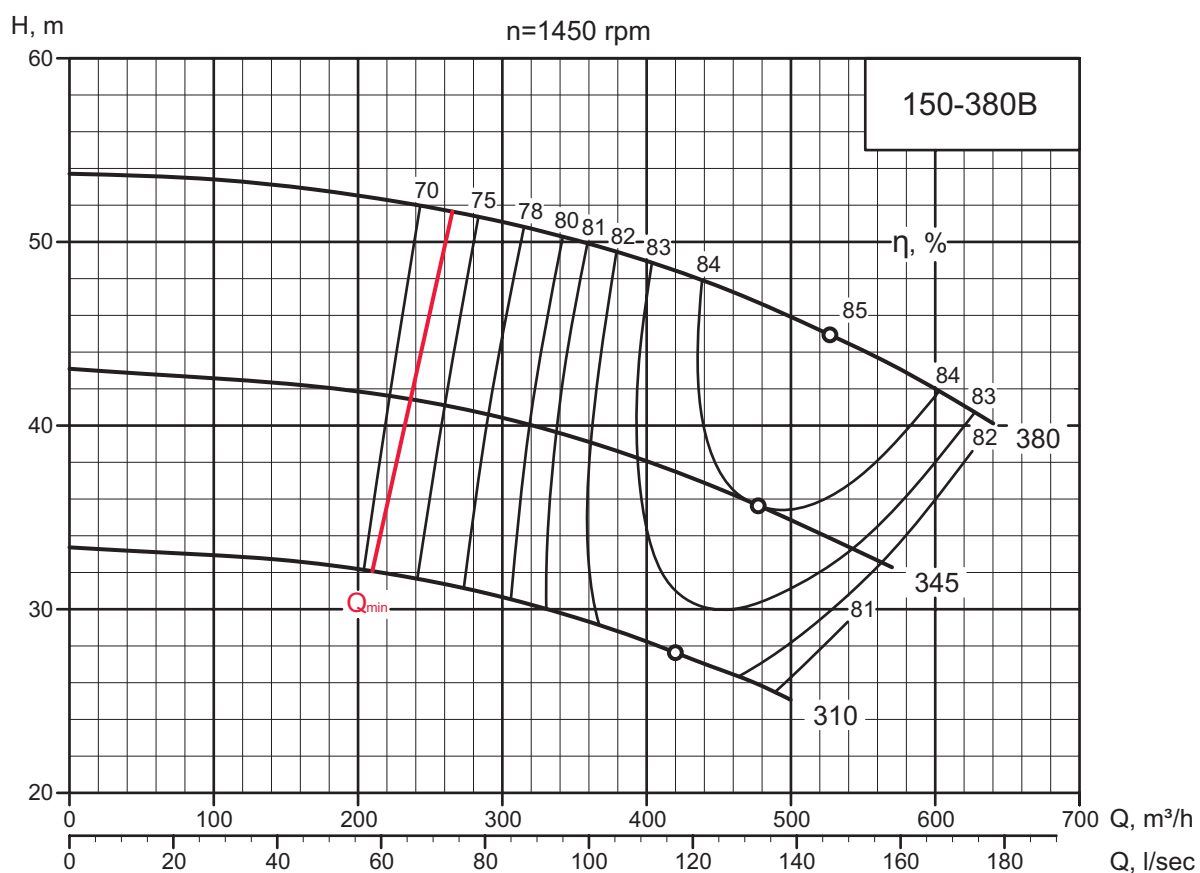
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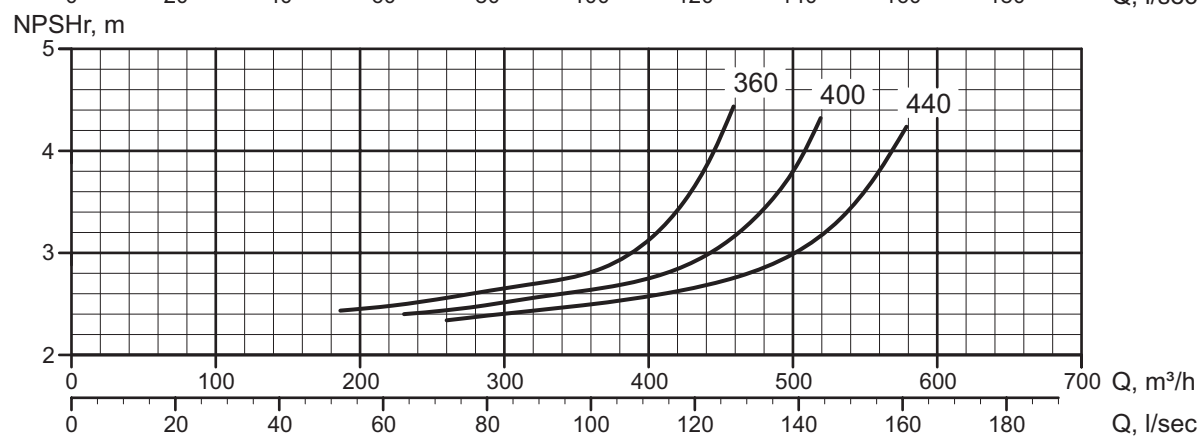
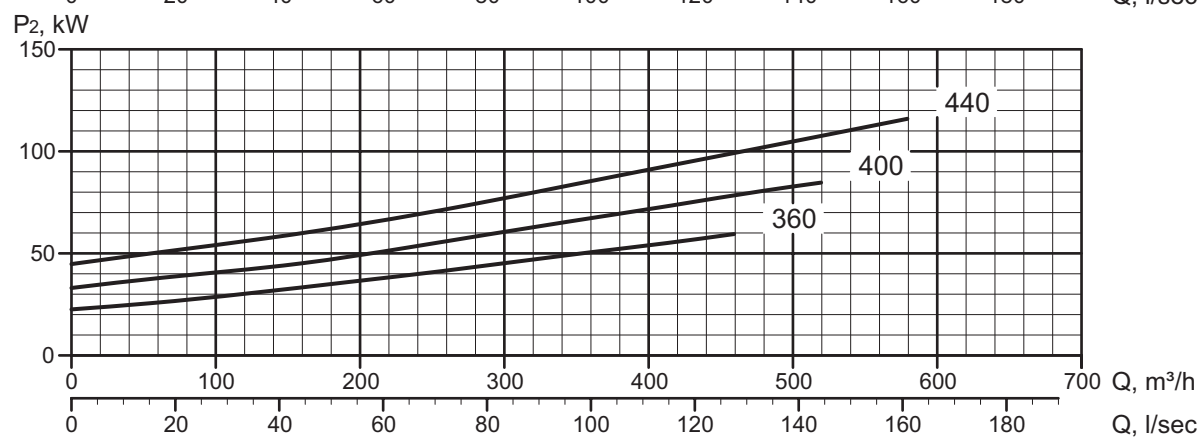
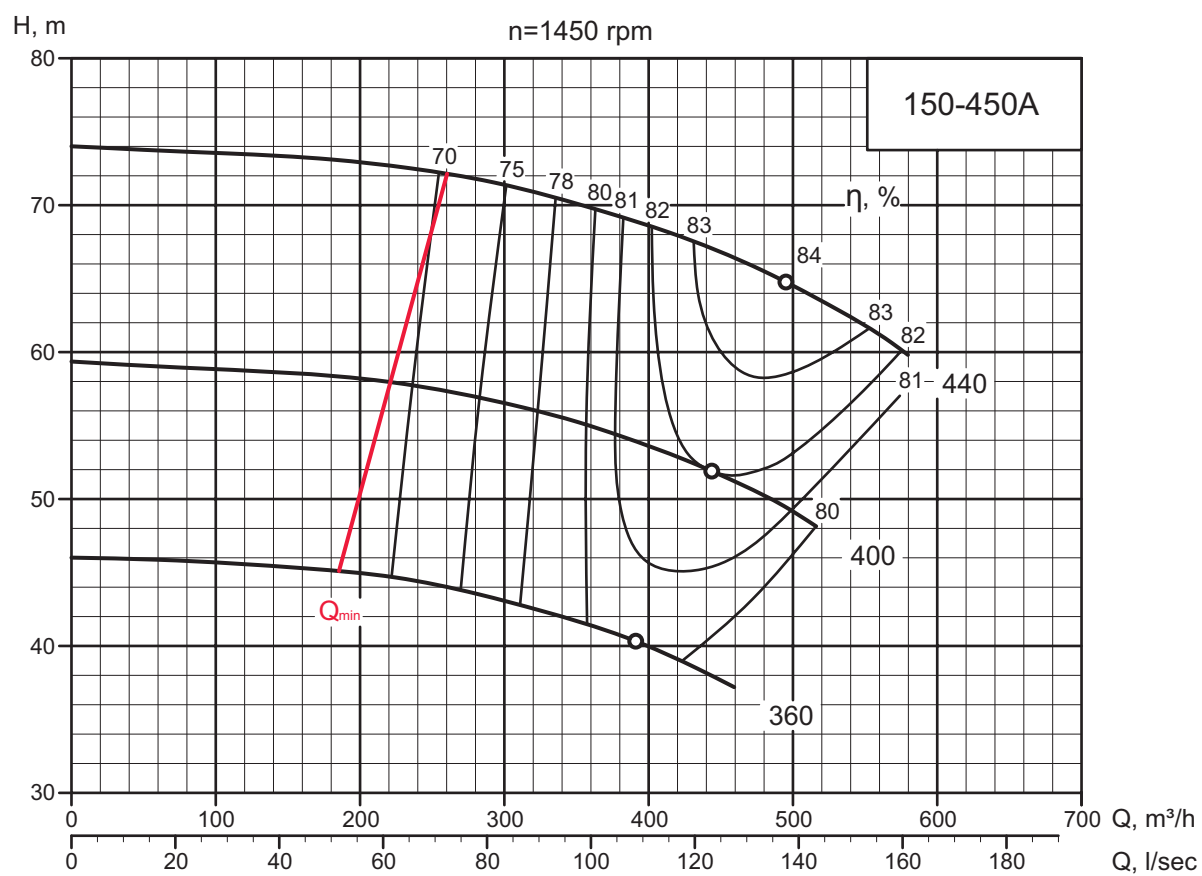
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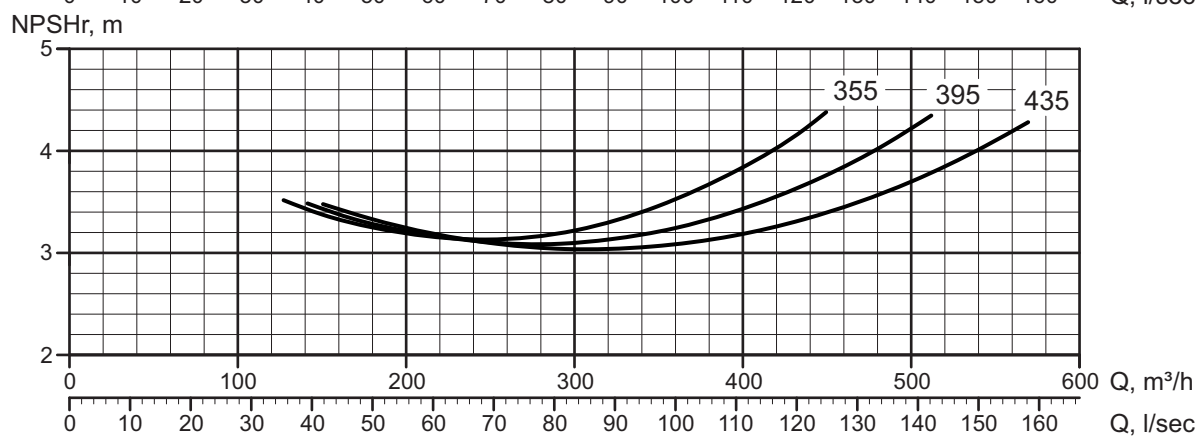
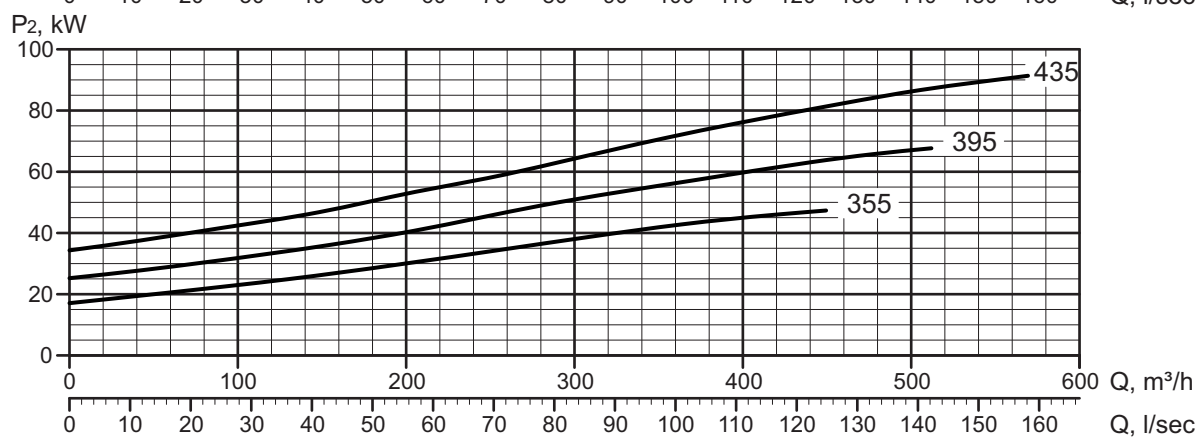
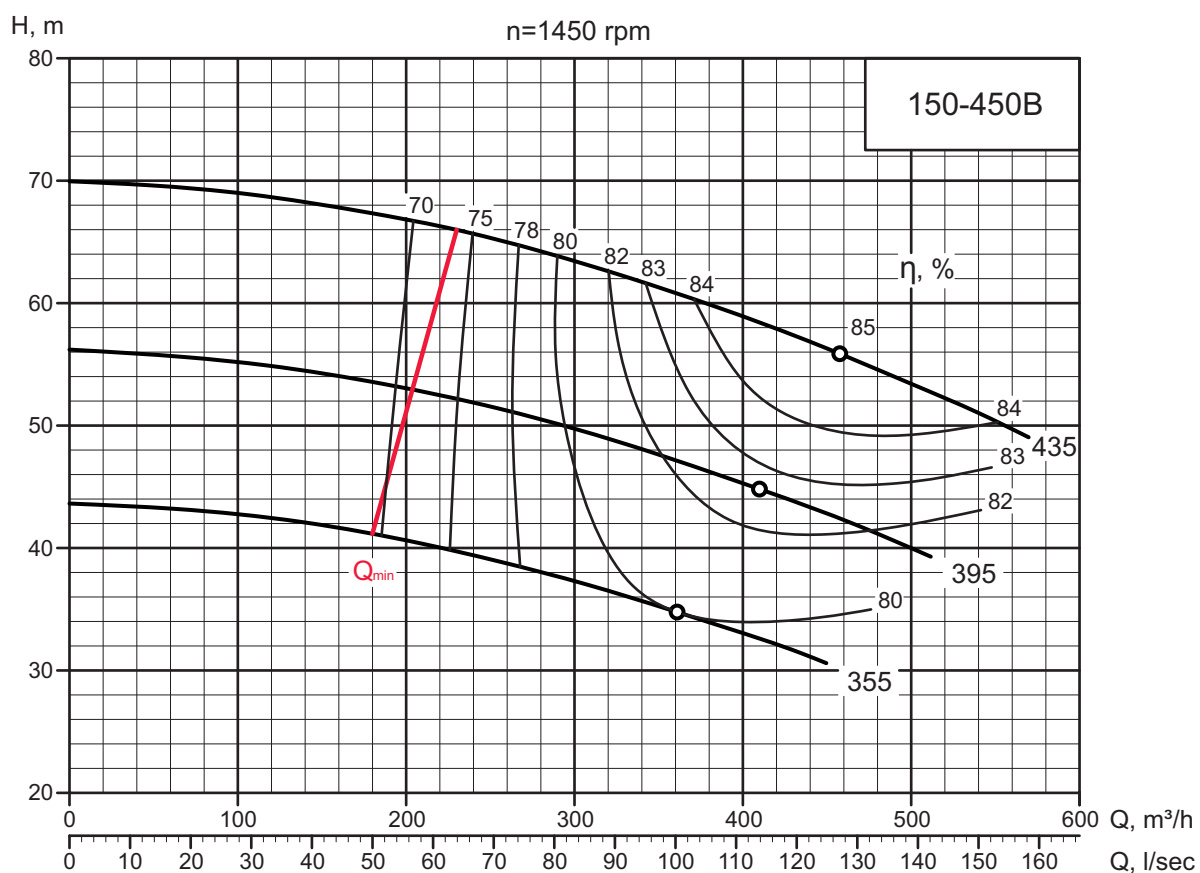
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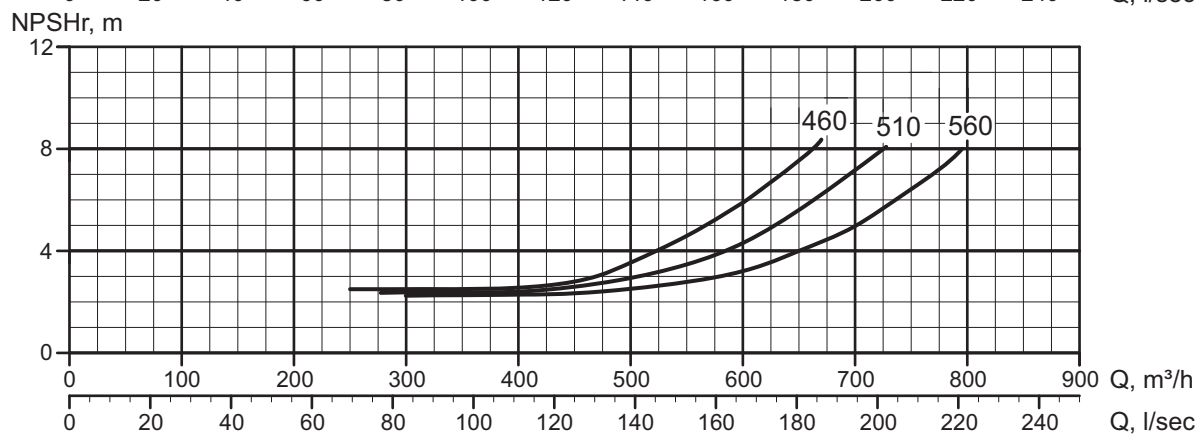
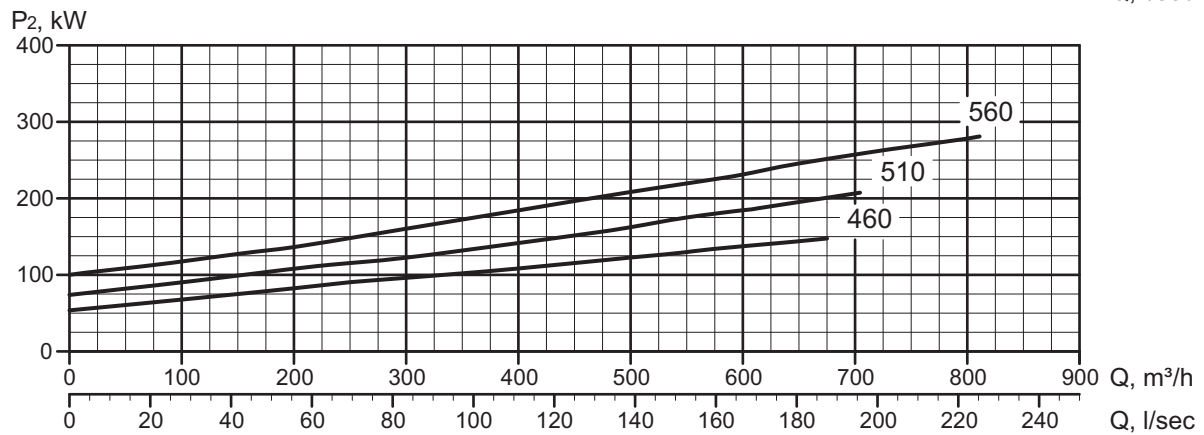
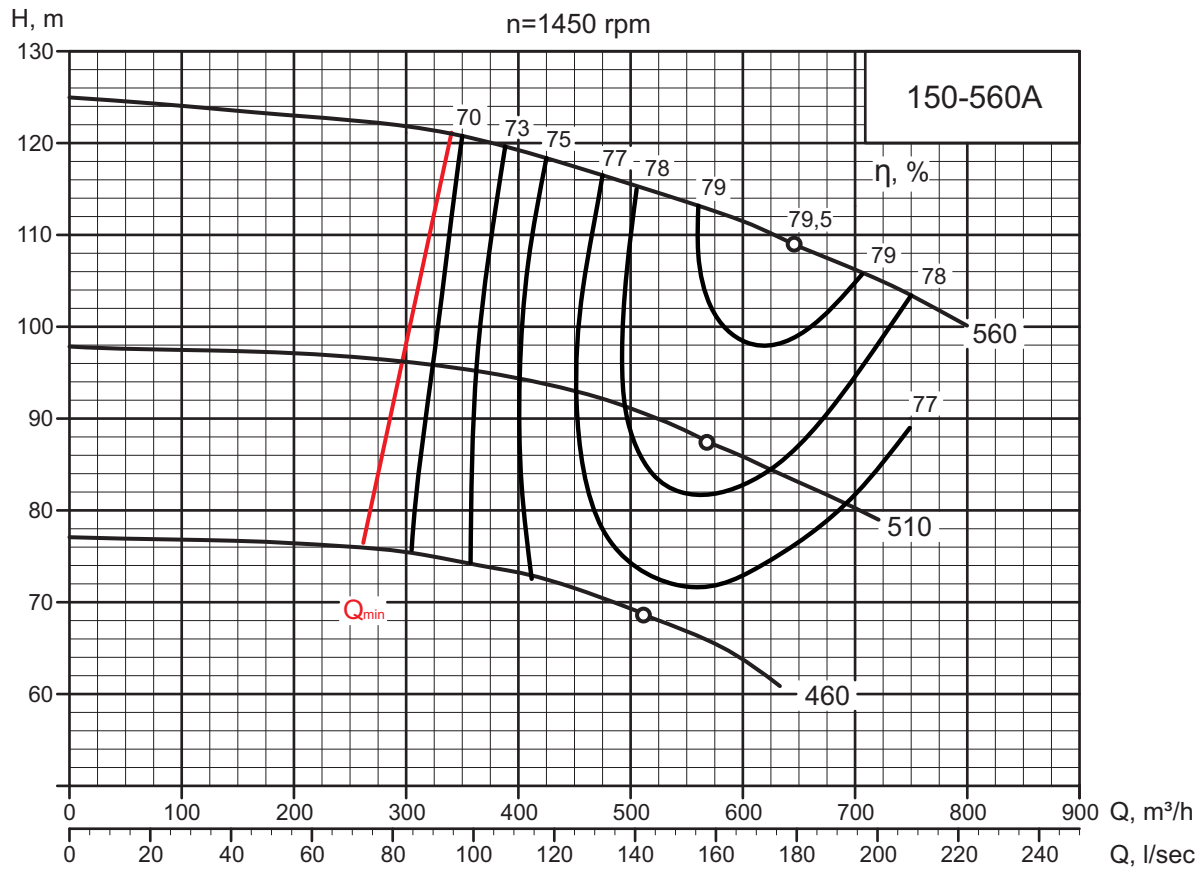
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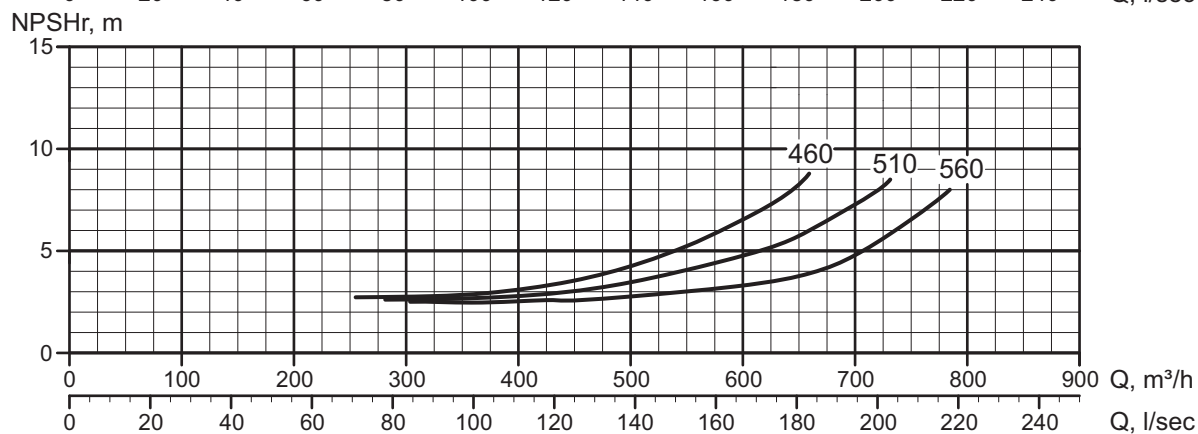
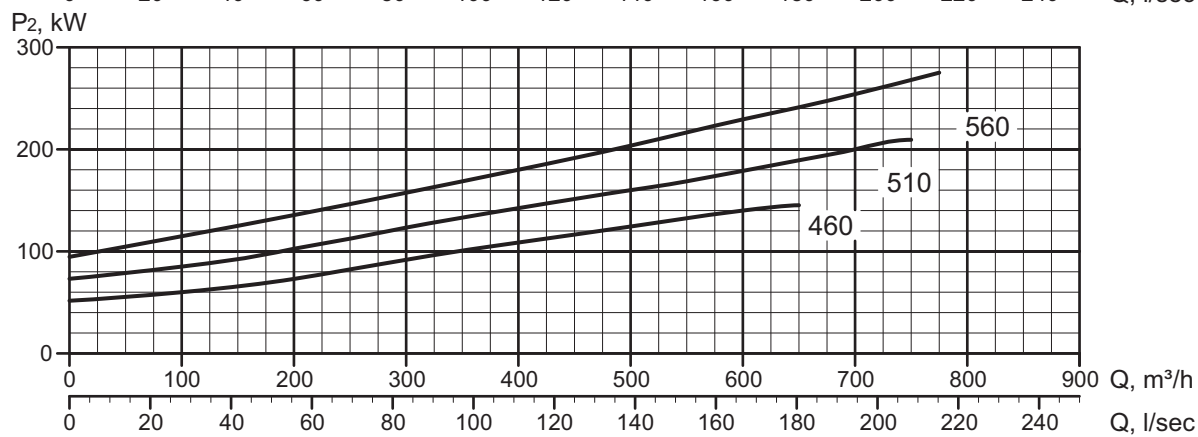
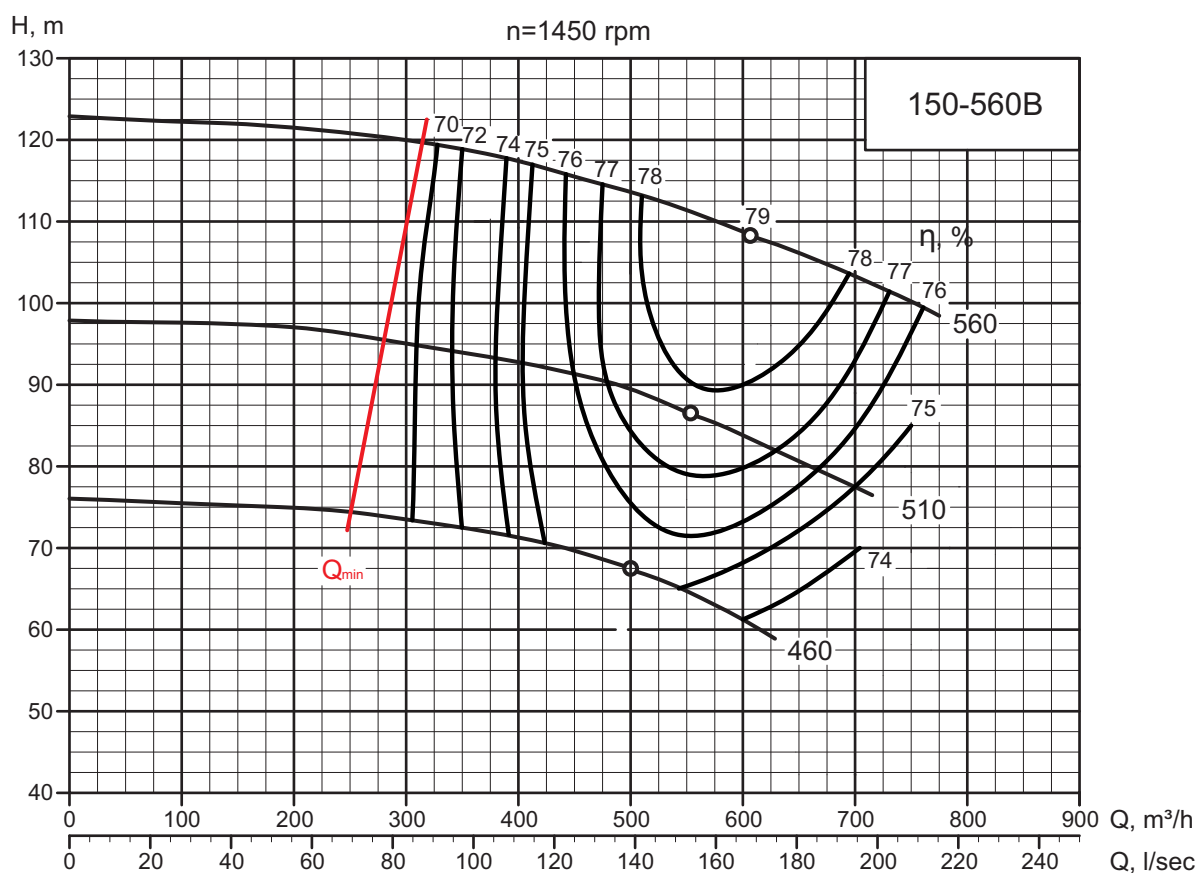
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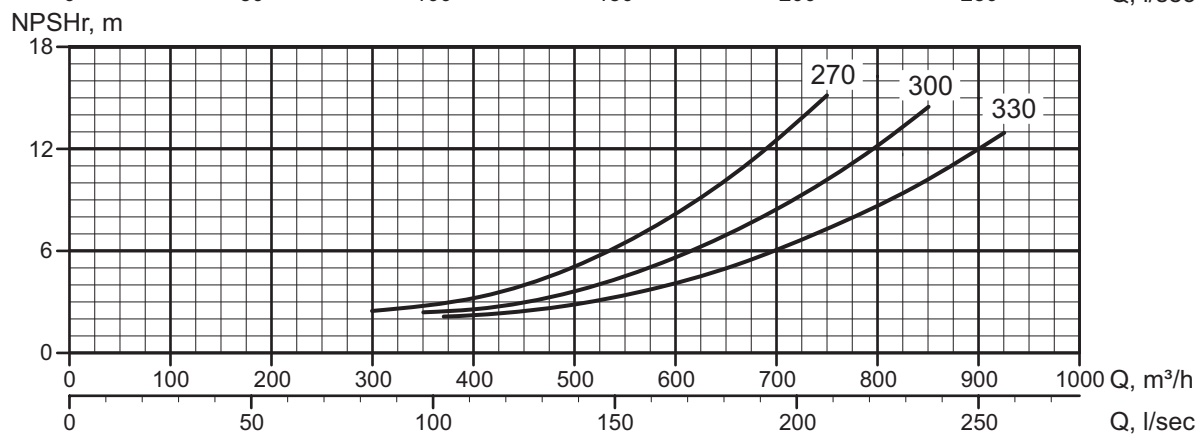
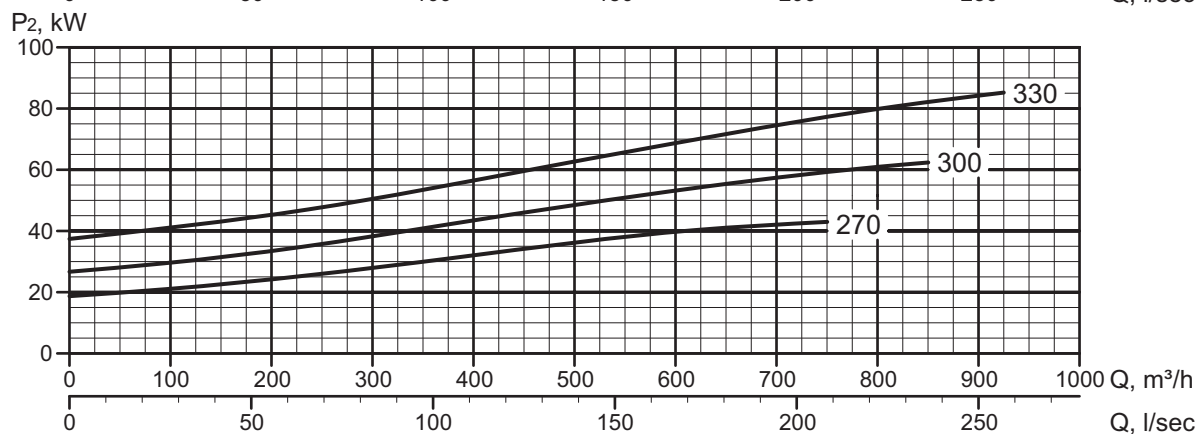
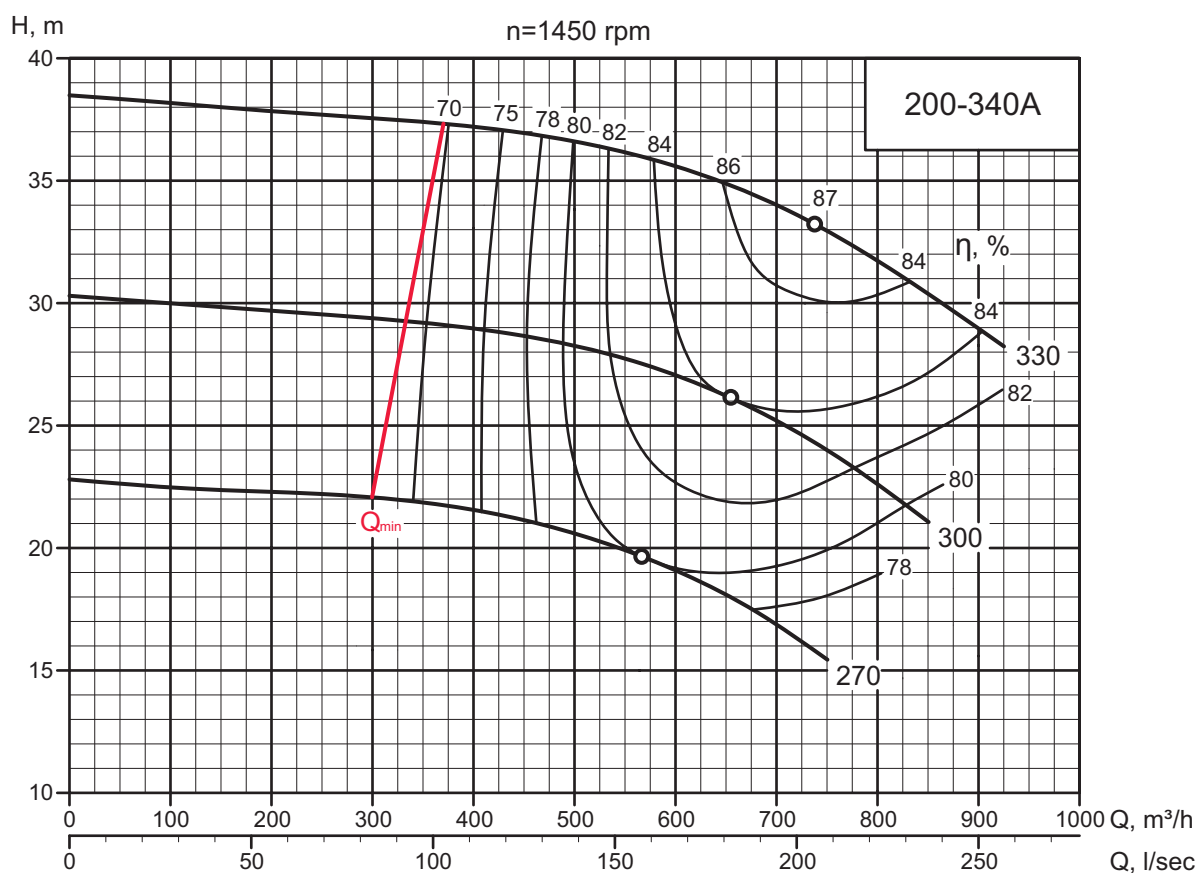
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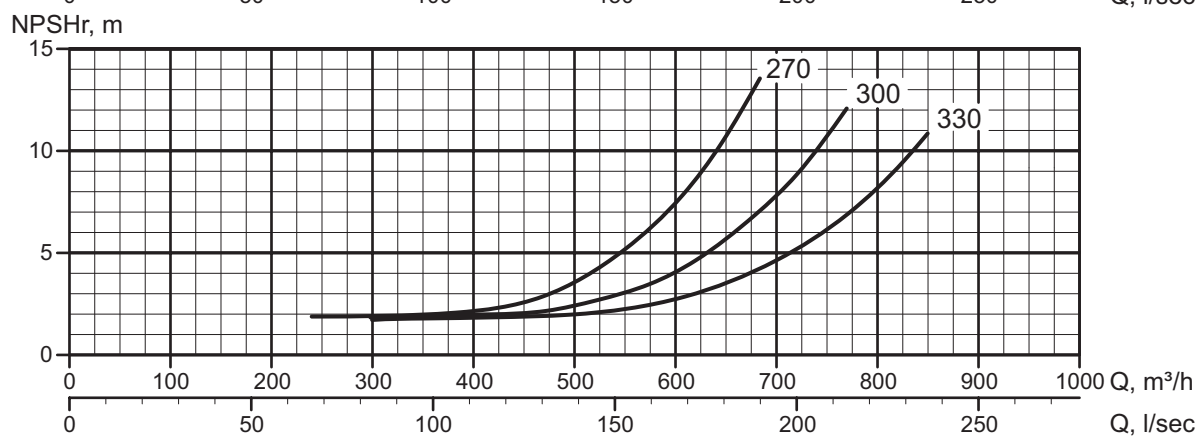
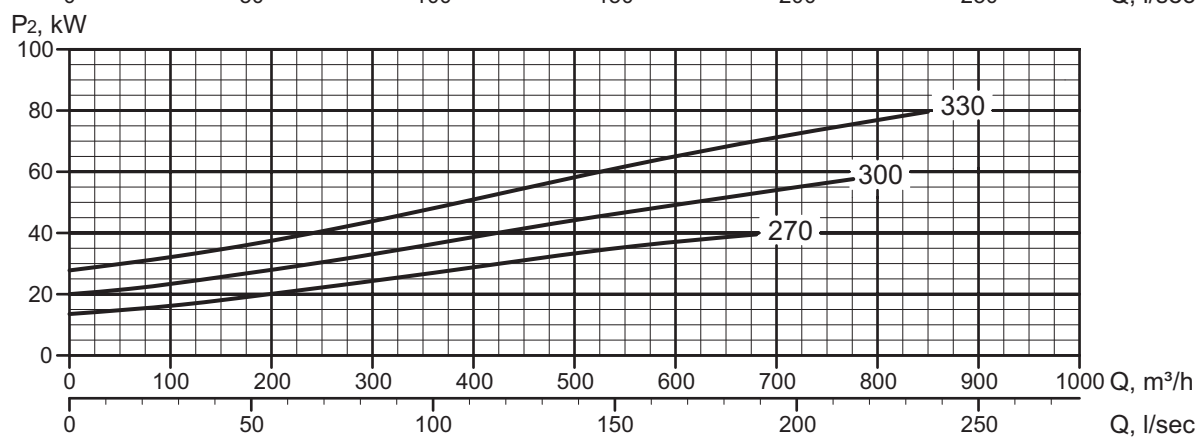
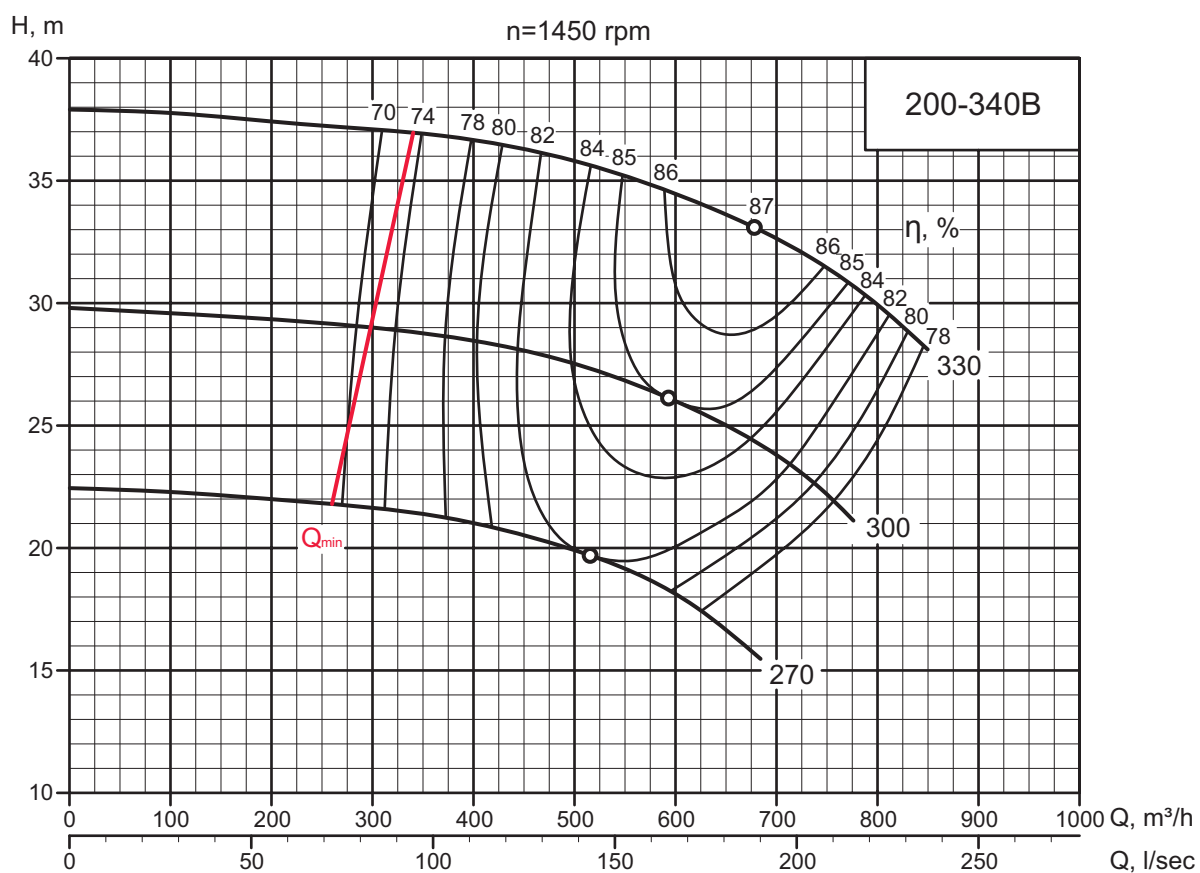
ISO 9906:2012 Grade 2B



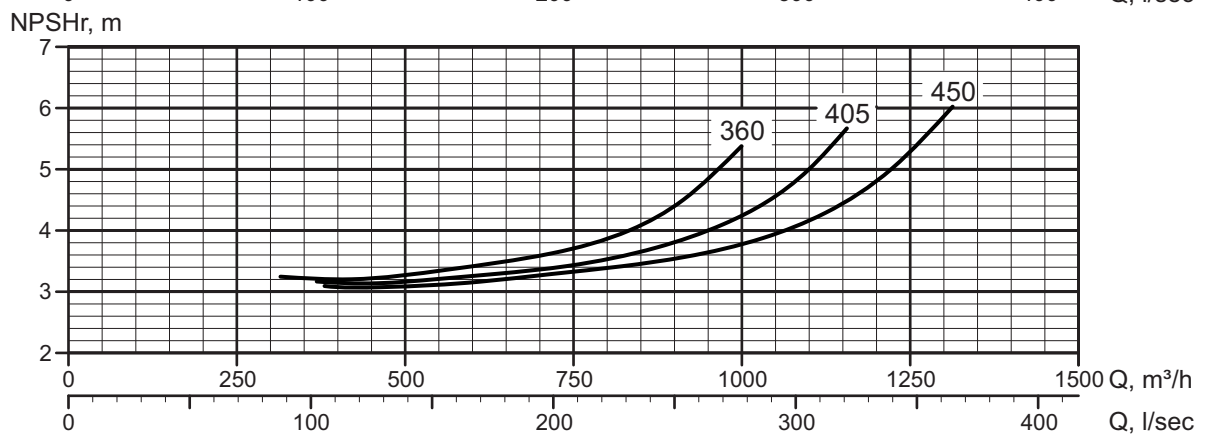
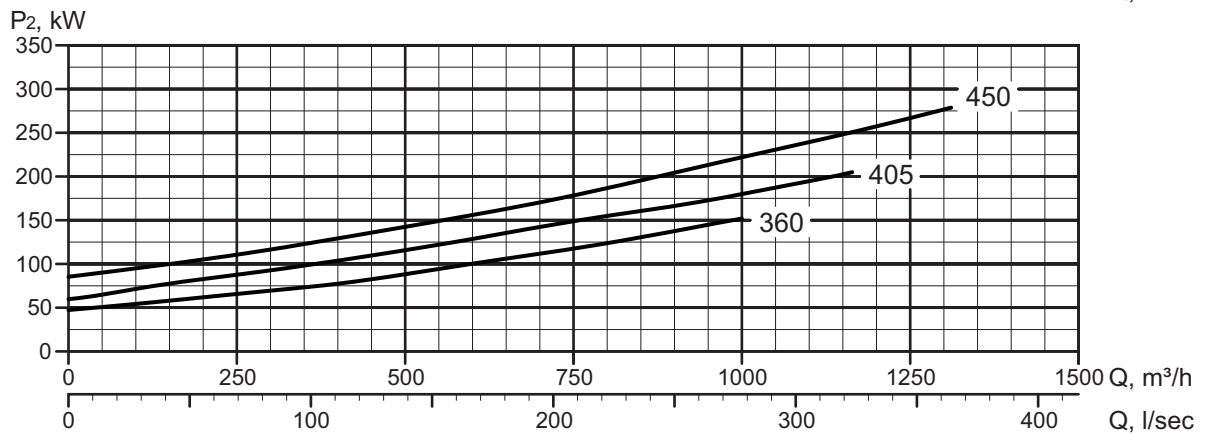
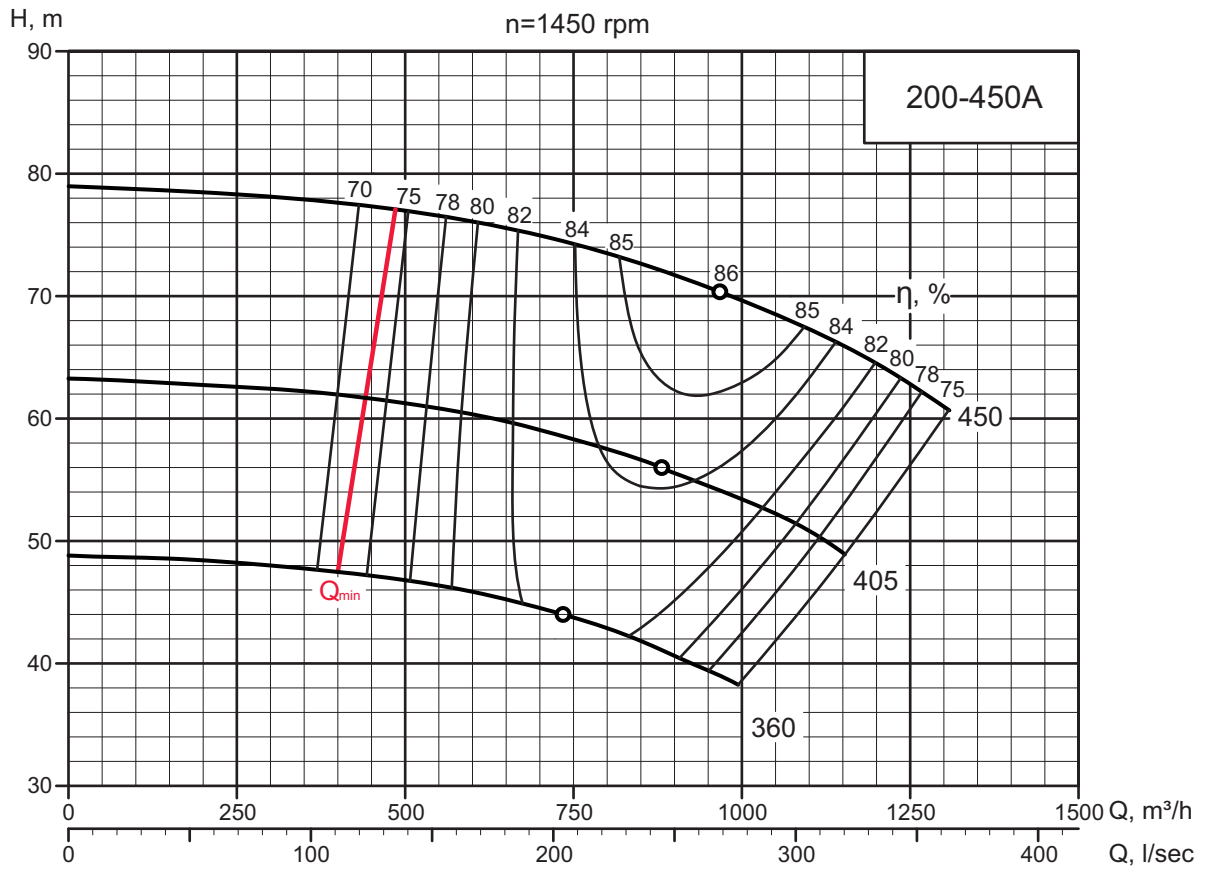
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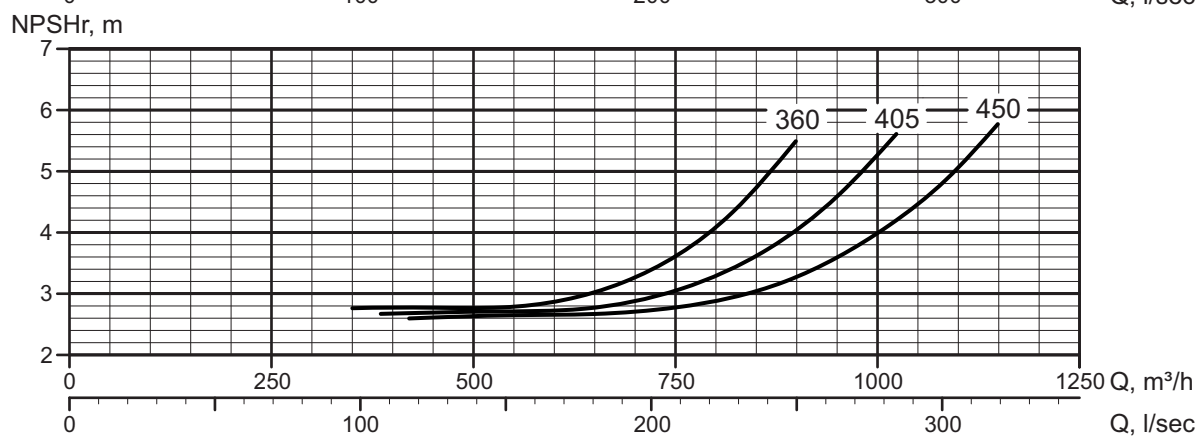
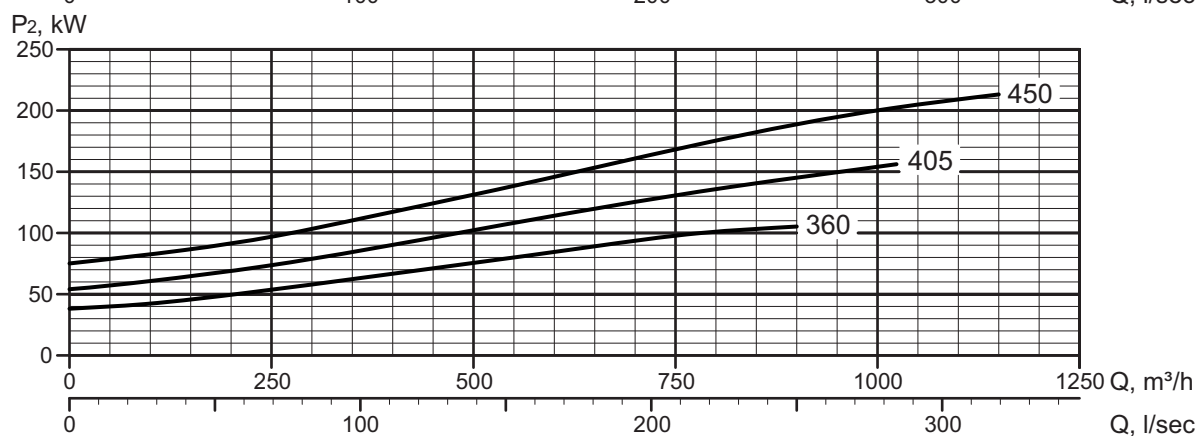
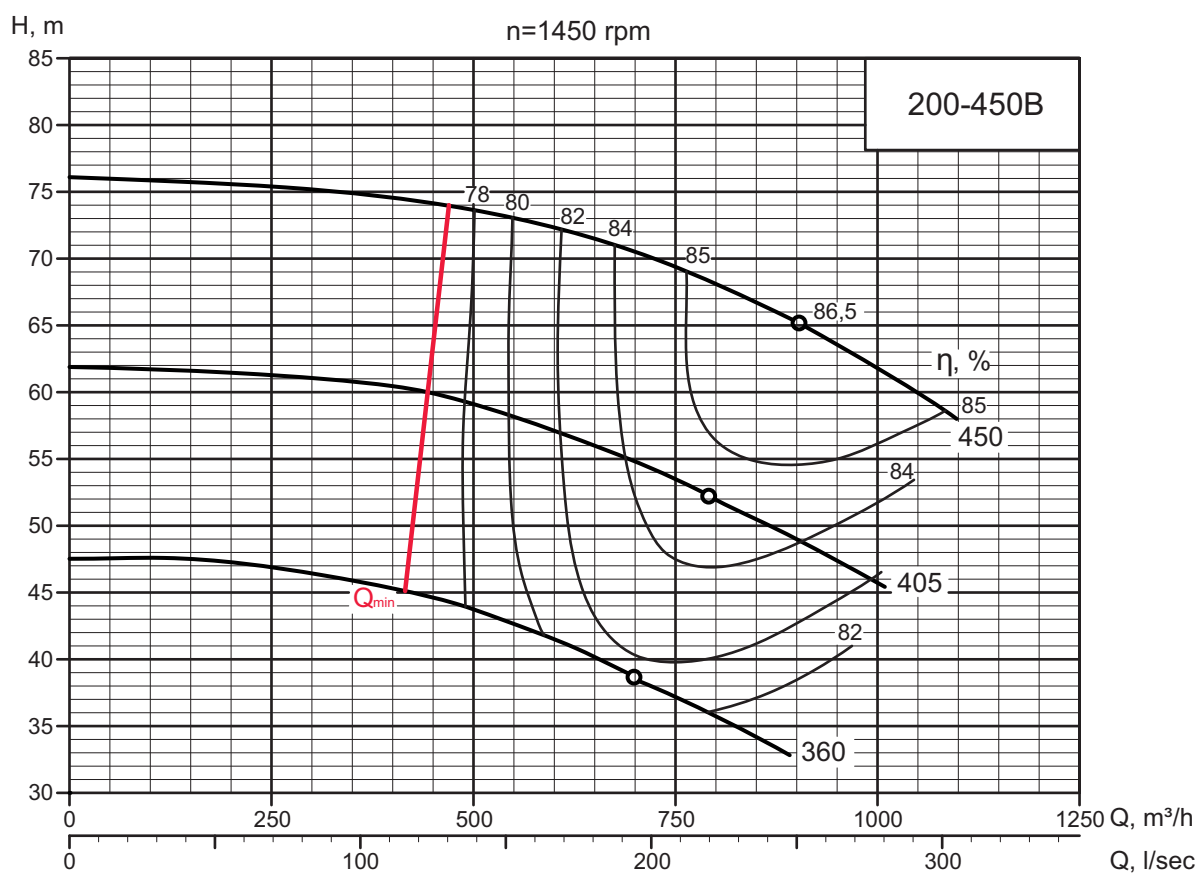
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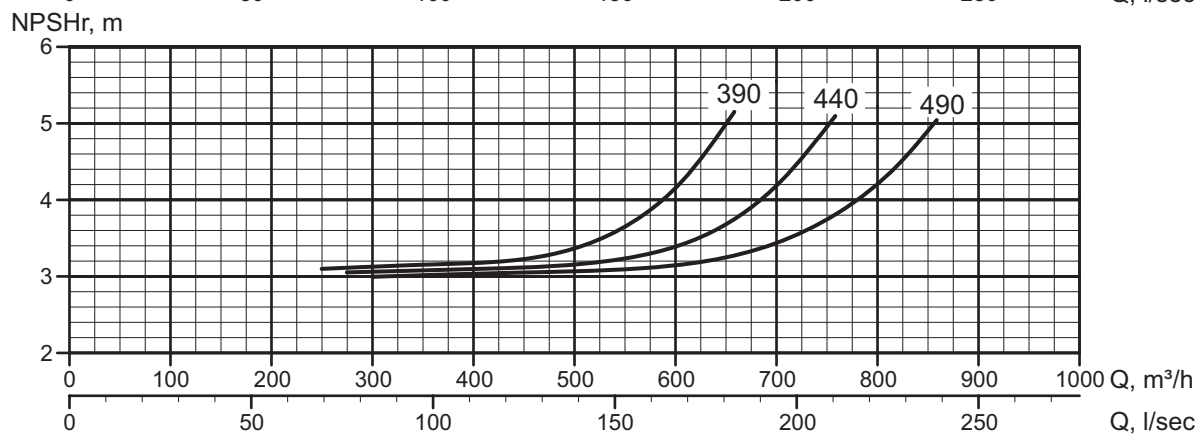
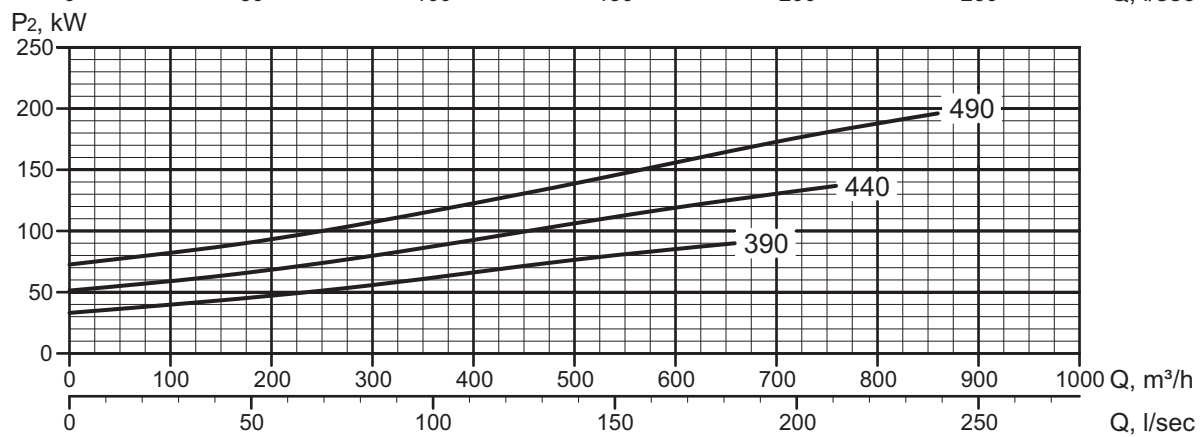
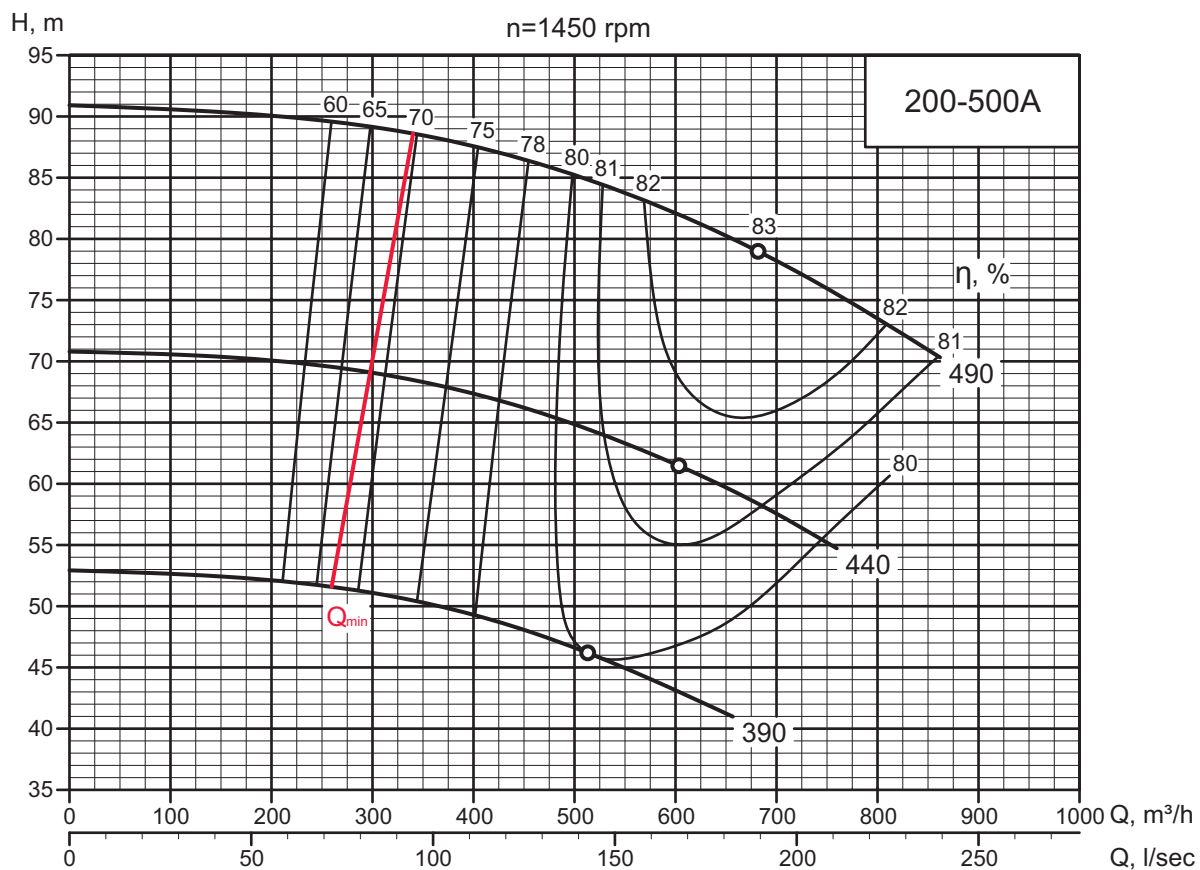
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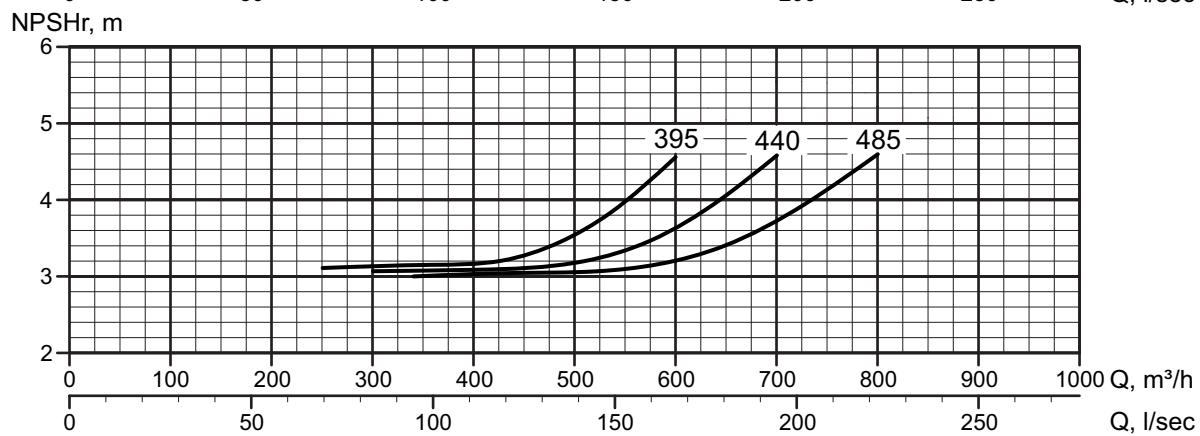
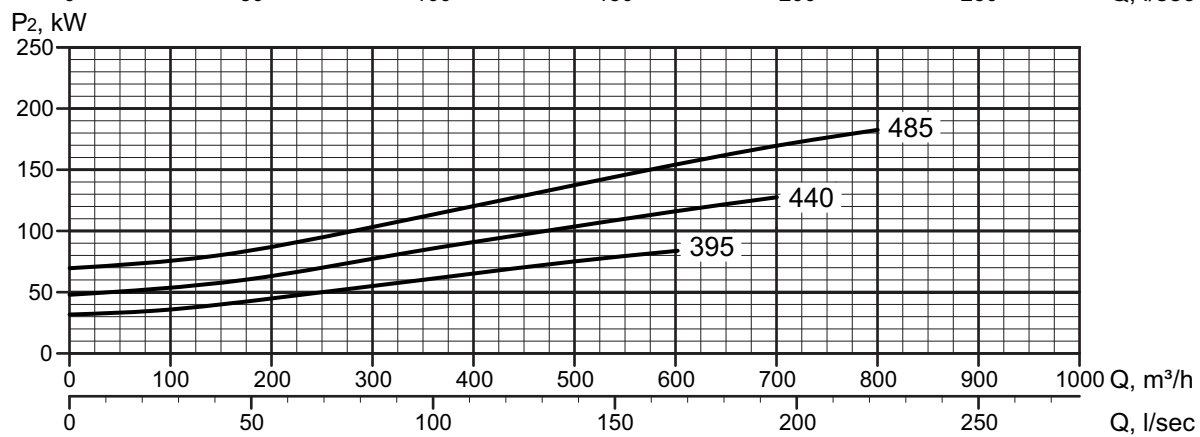
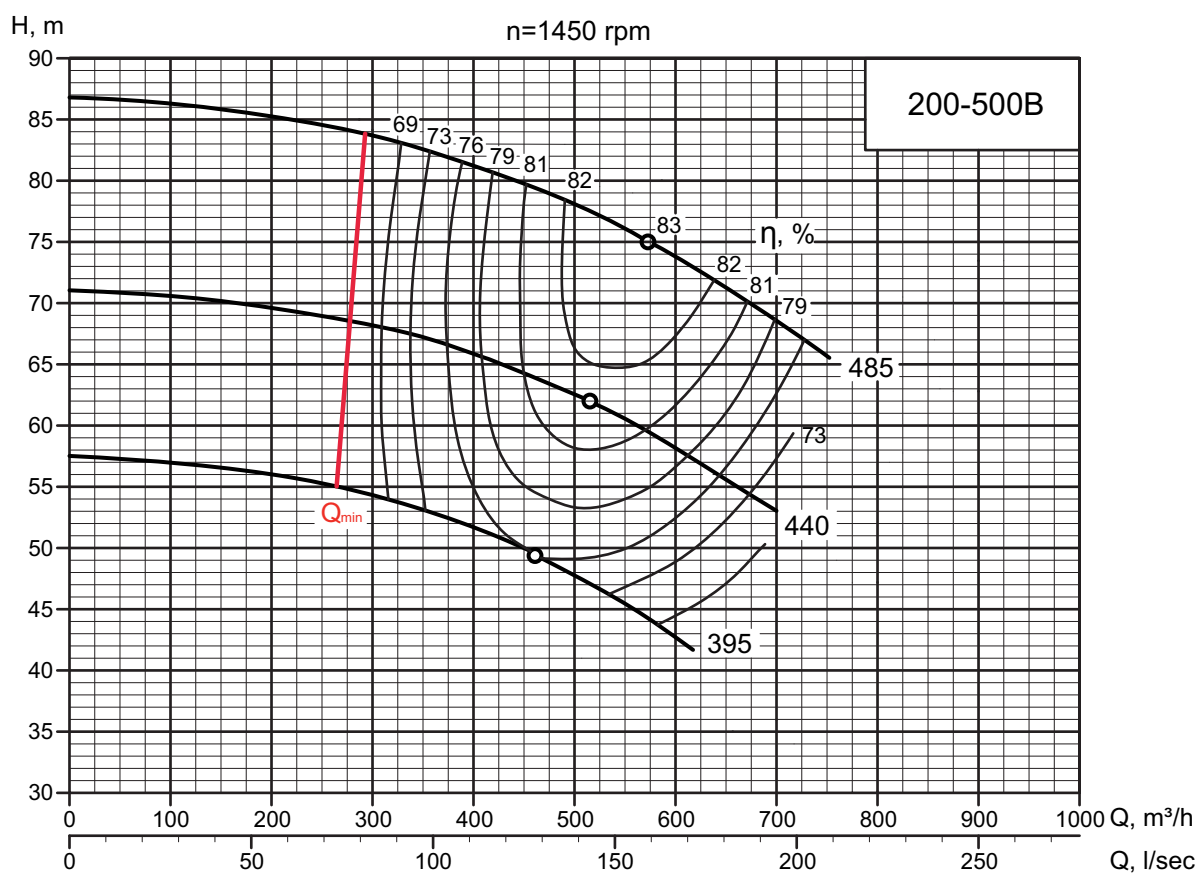
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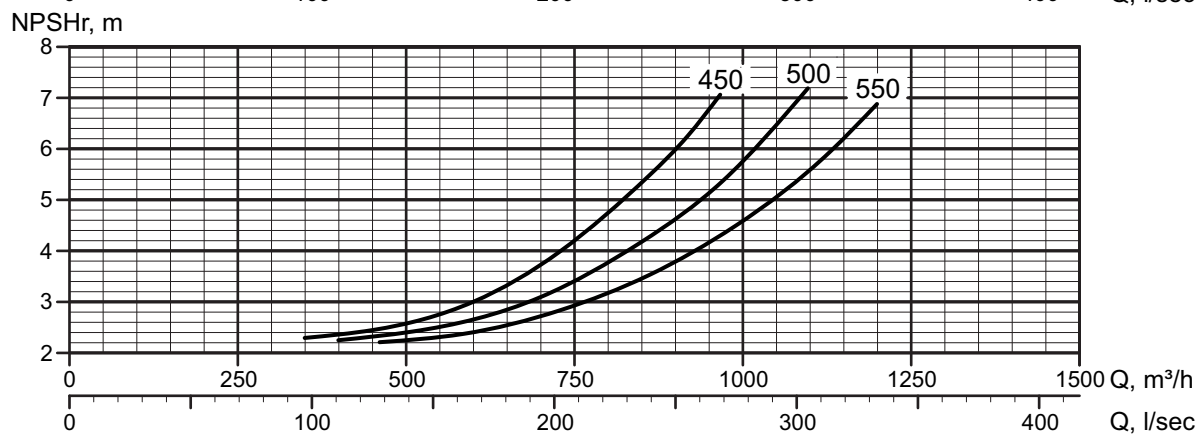
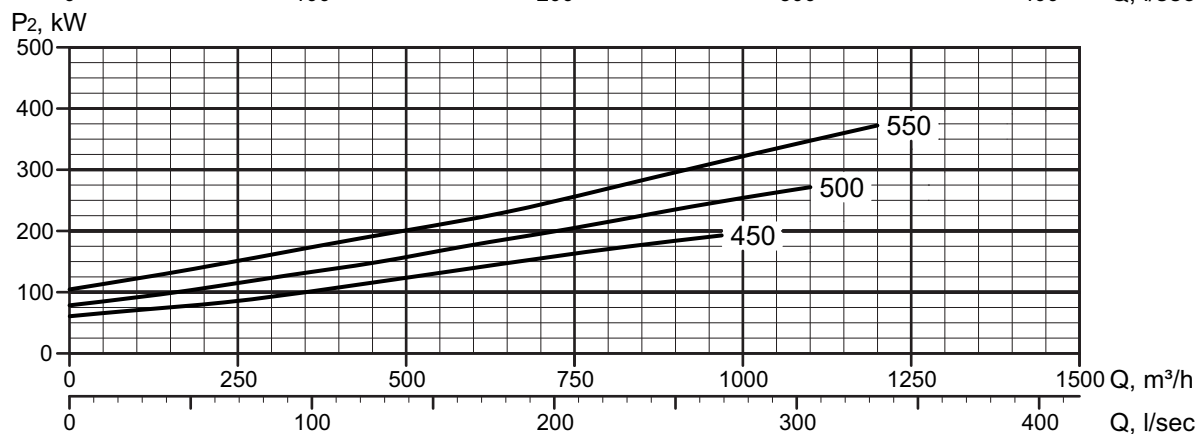
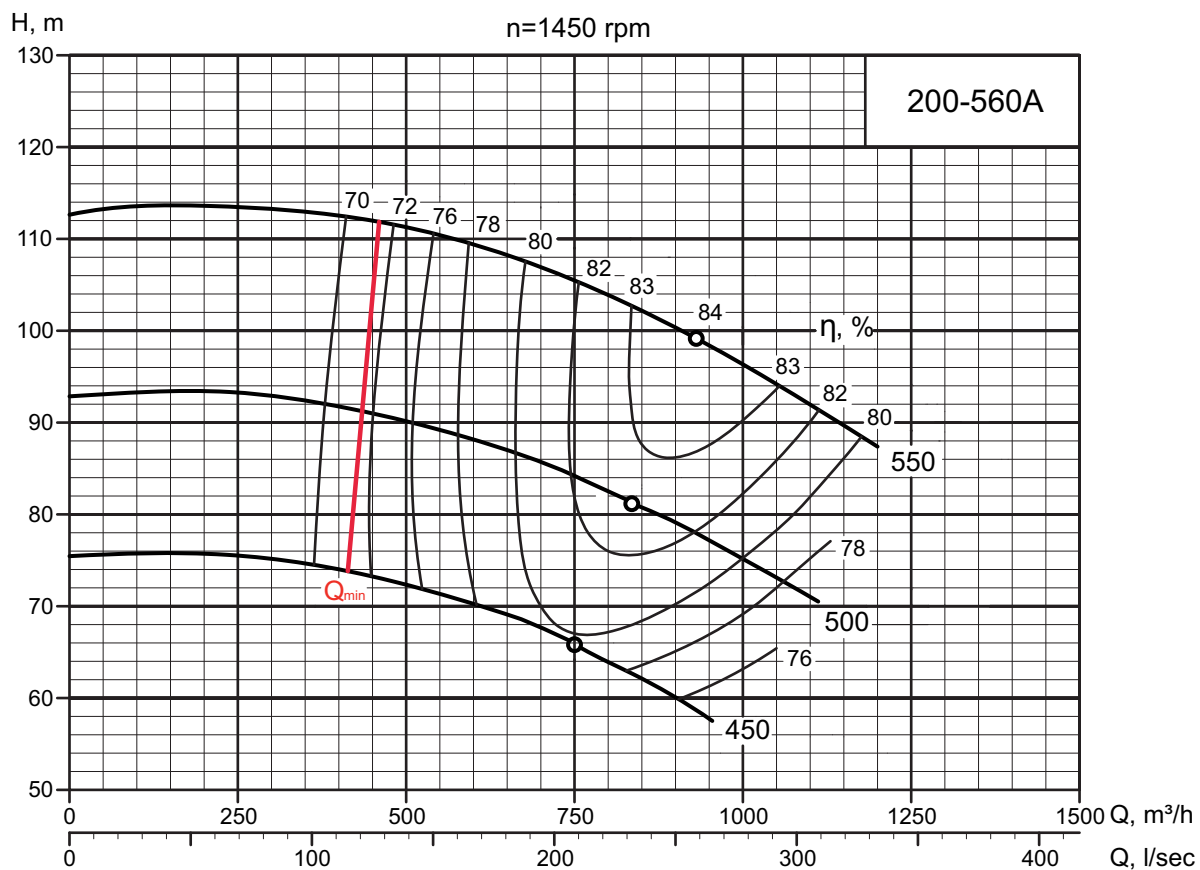
ISO 9906:2012 Grade 2B



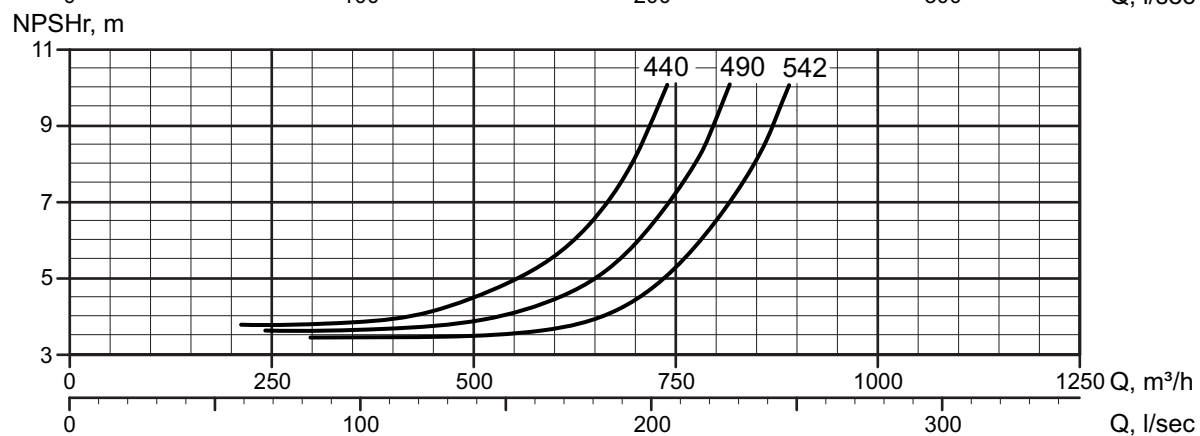
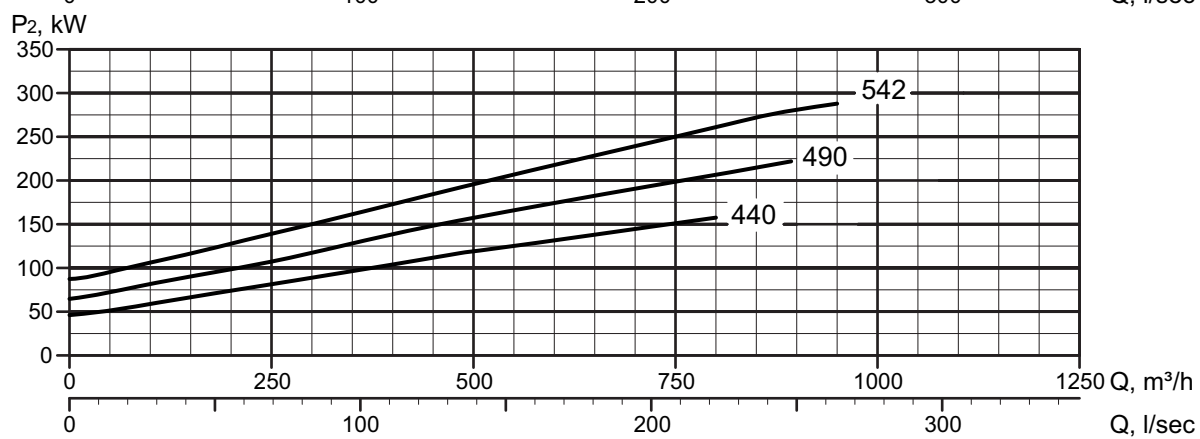
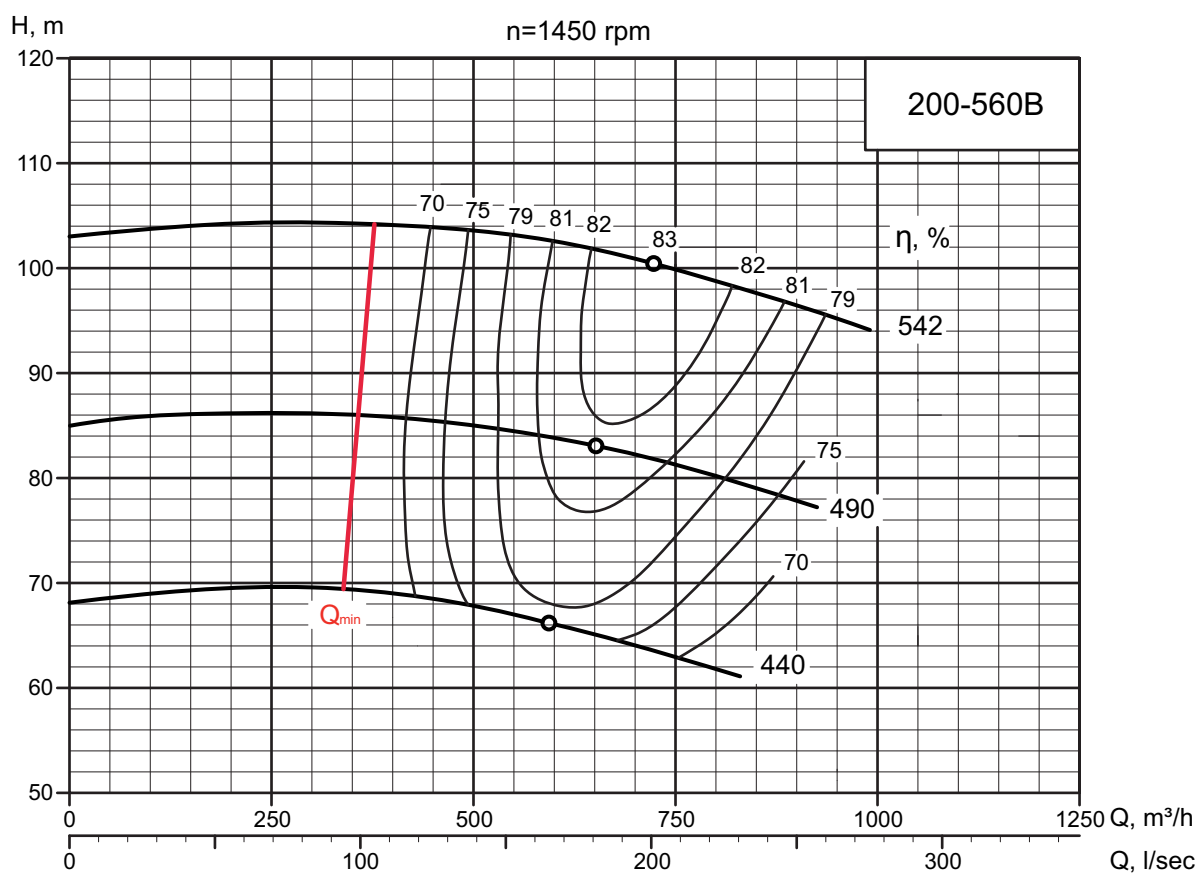
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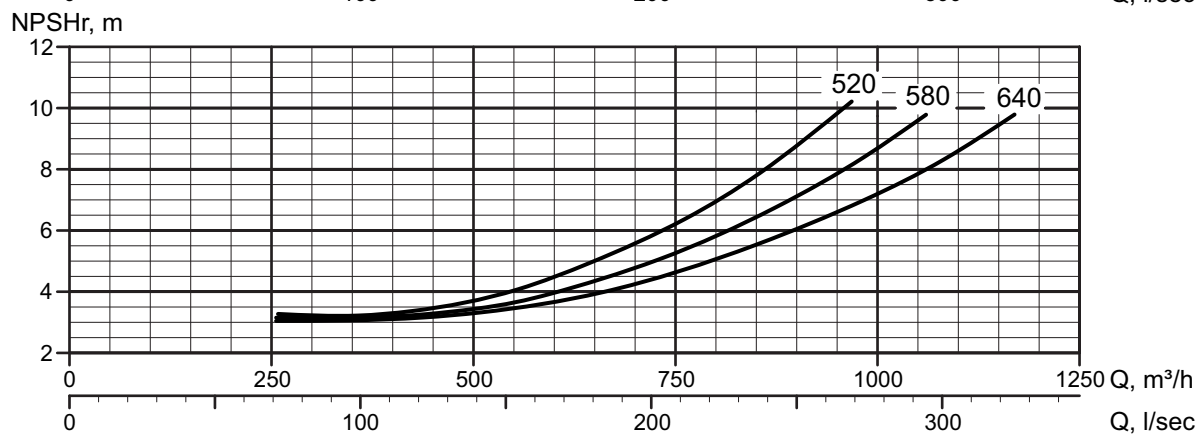
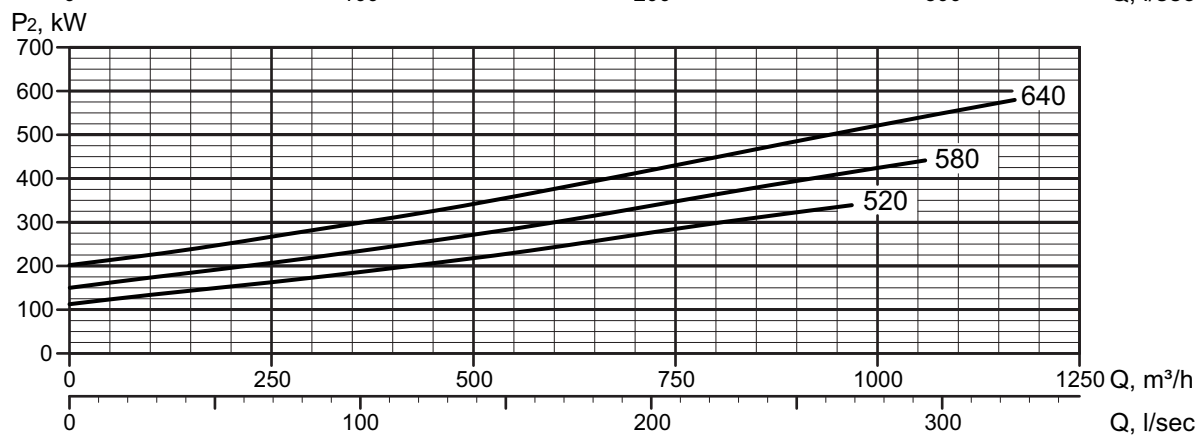
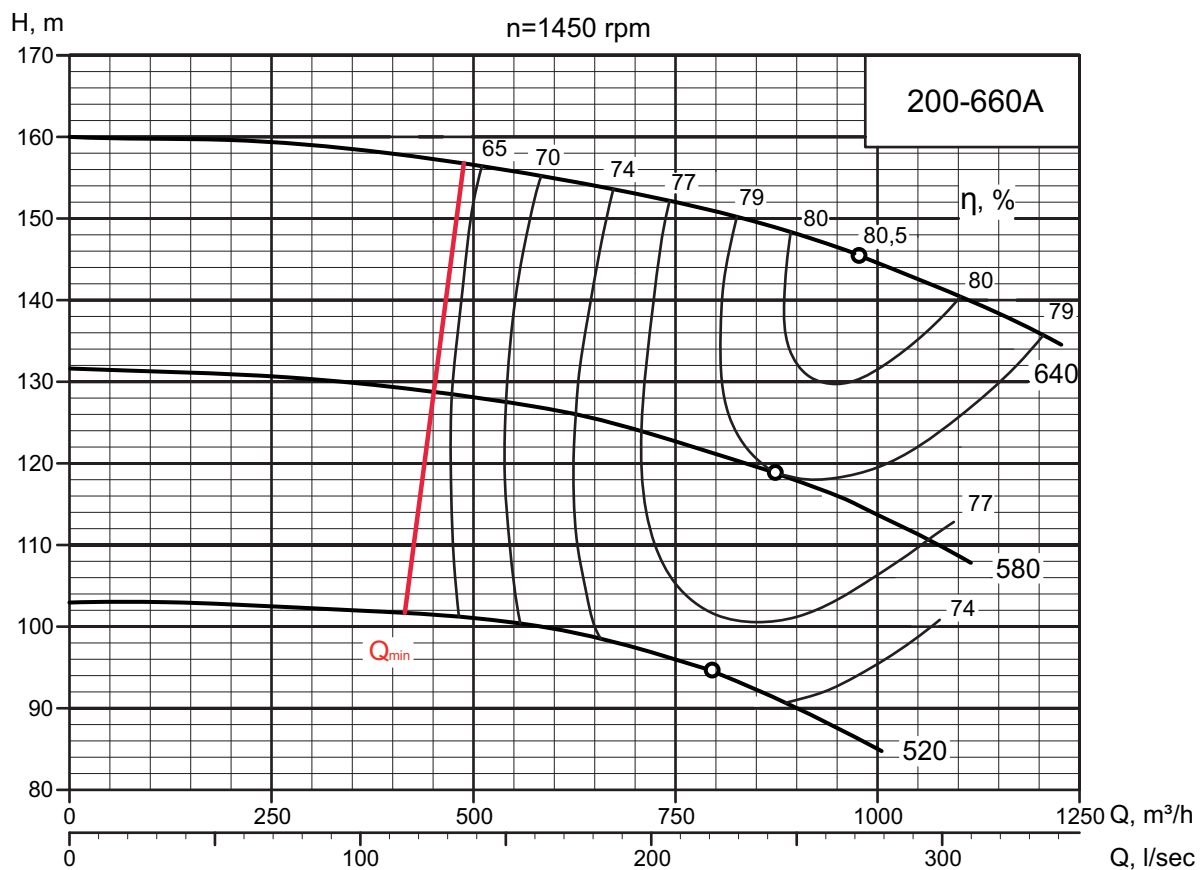
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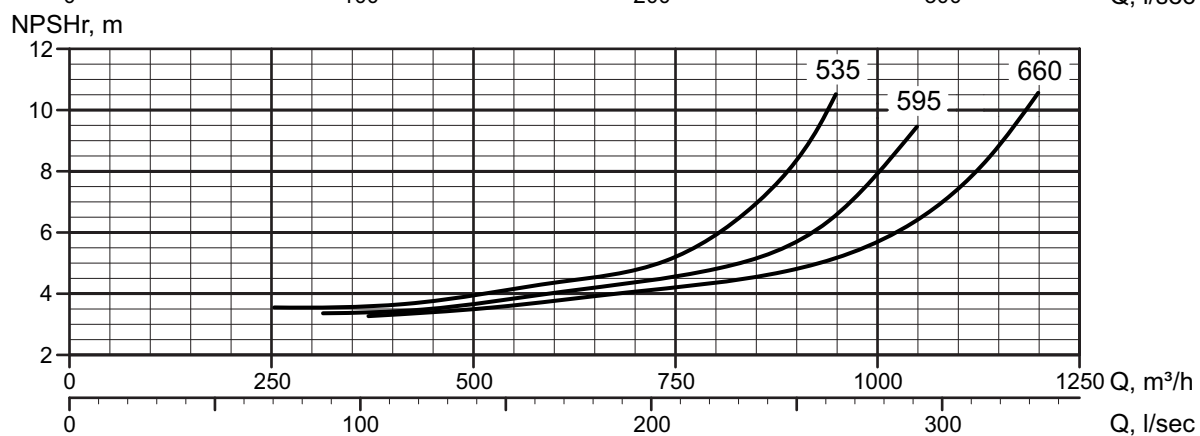
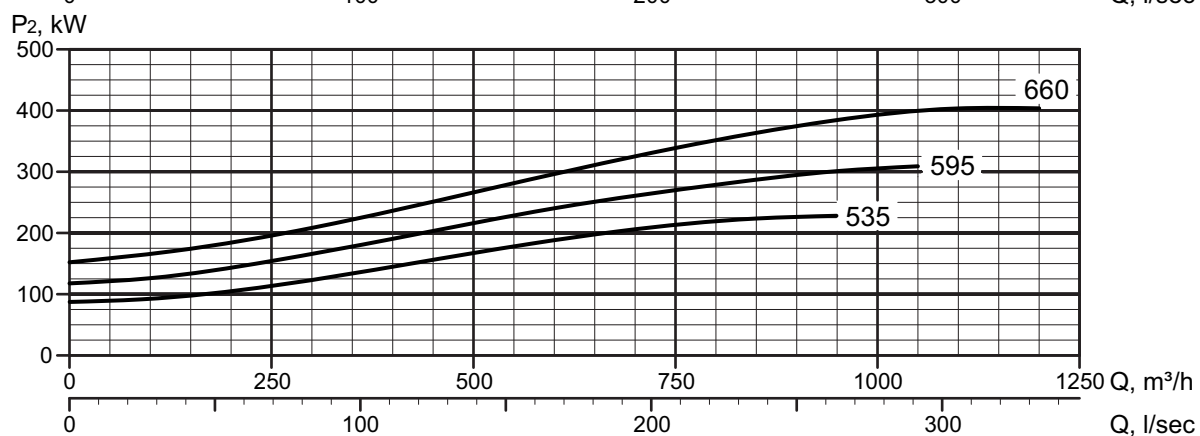
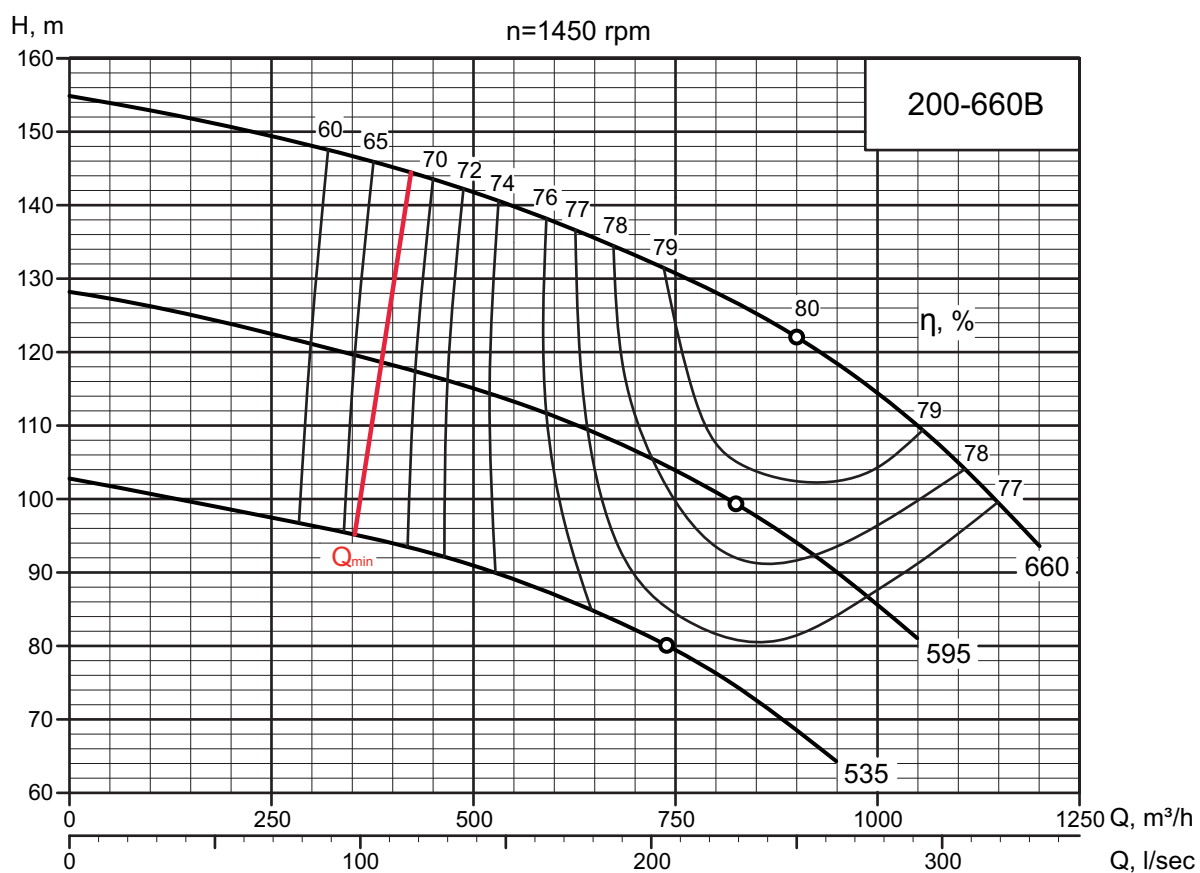
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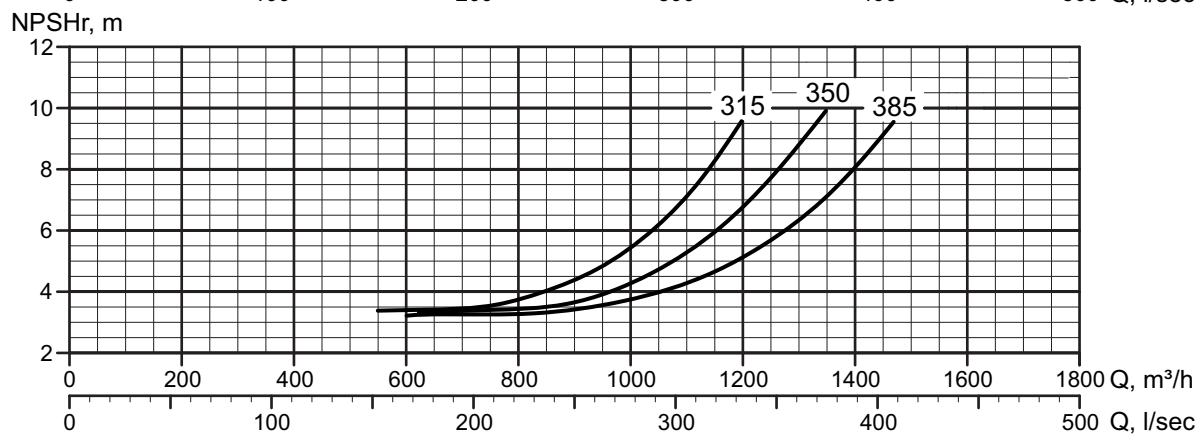
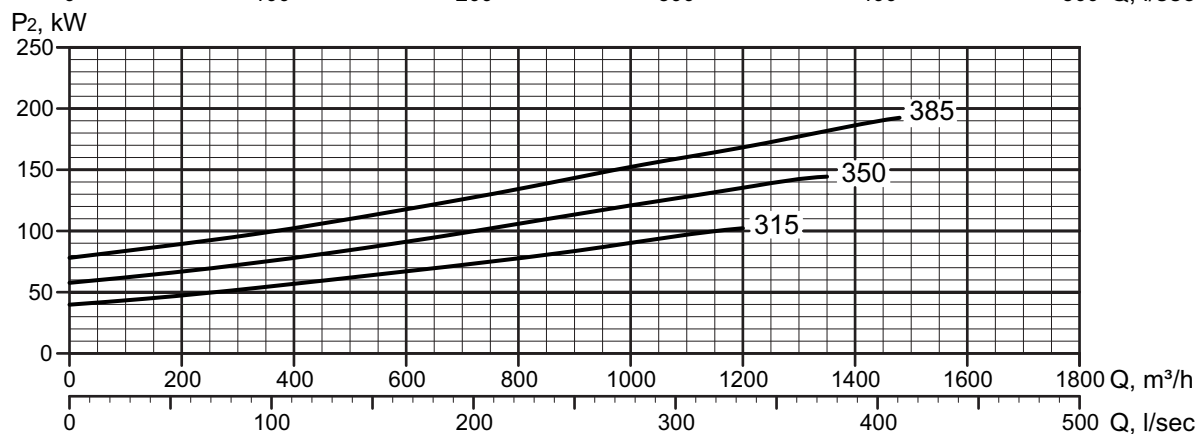
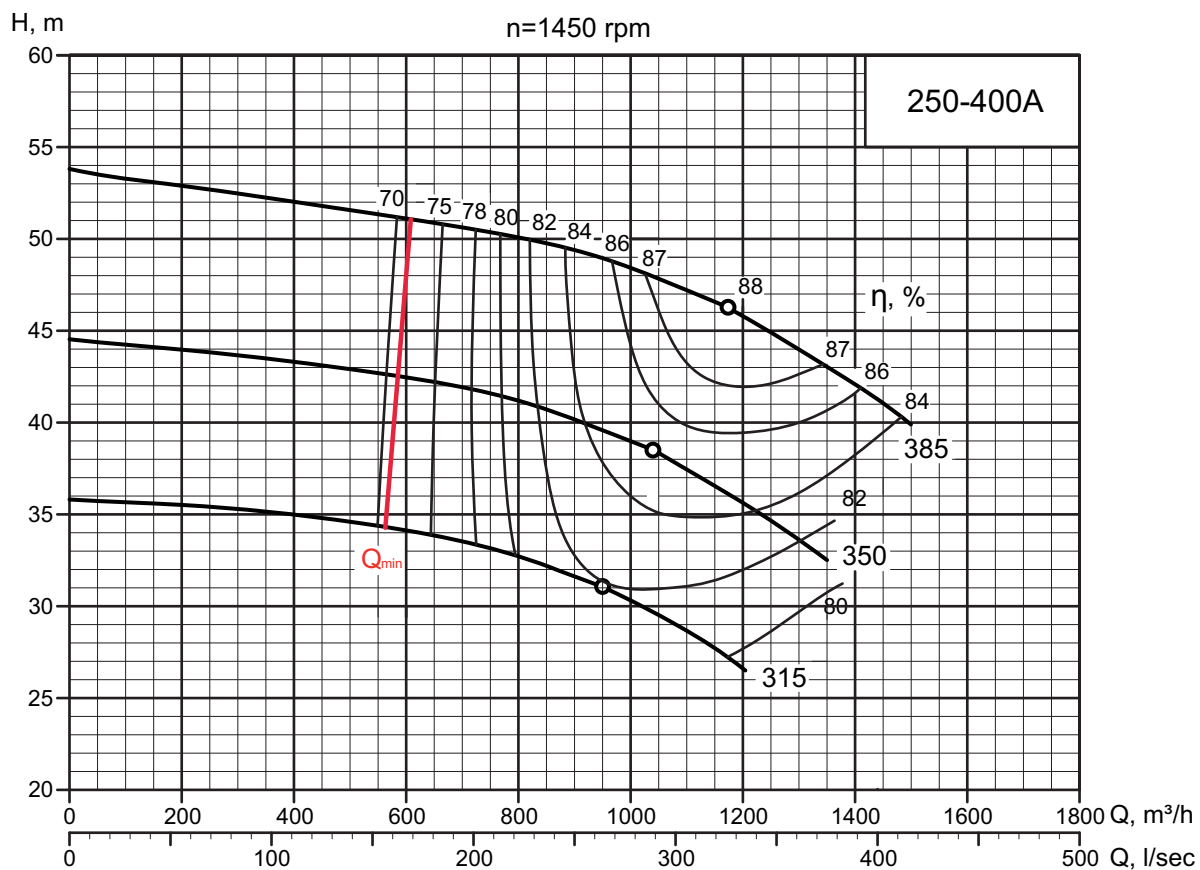
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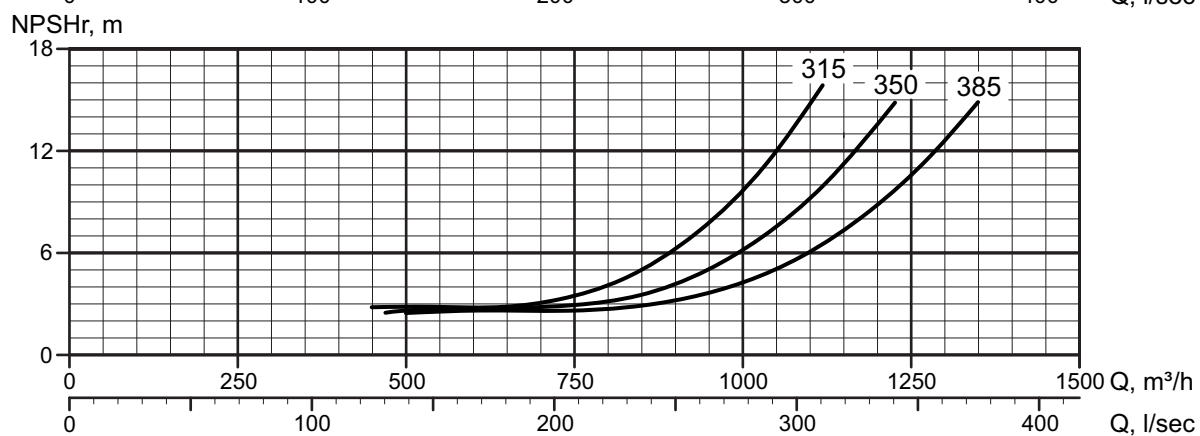
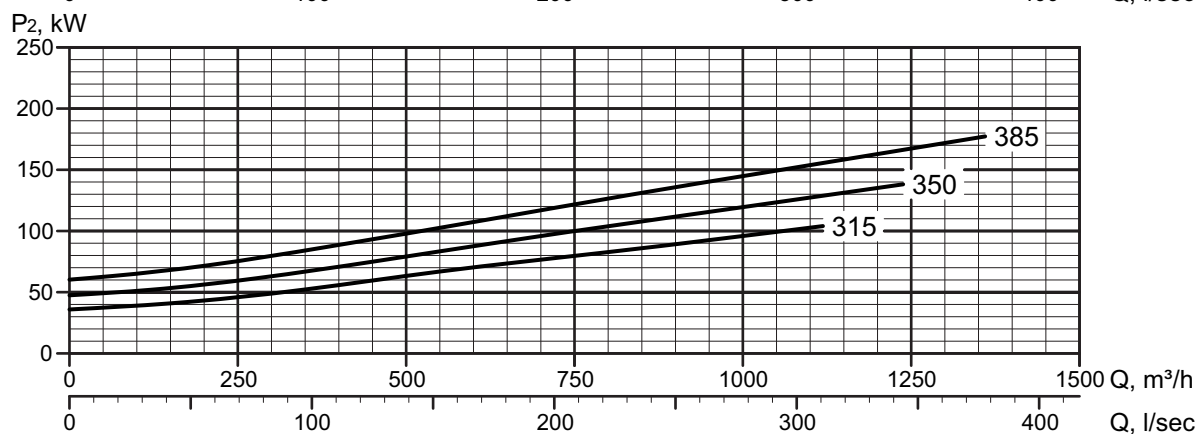
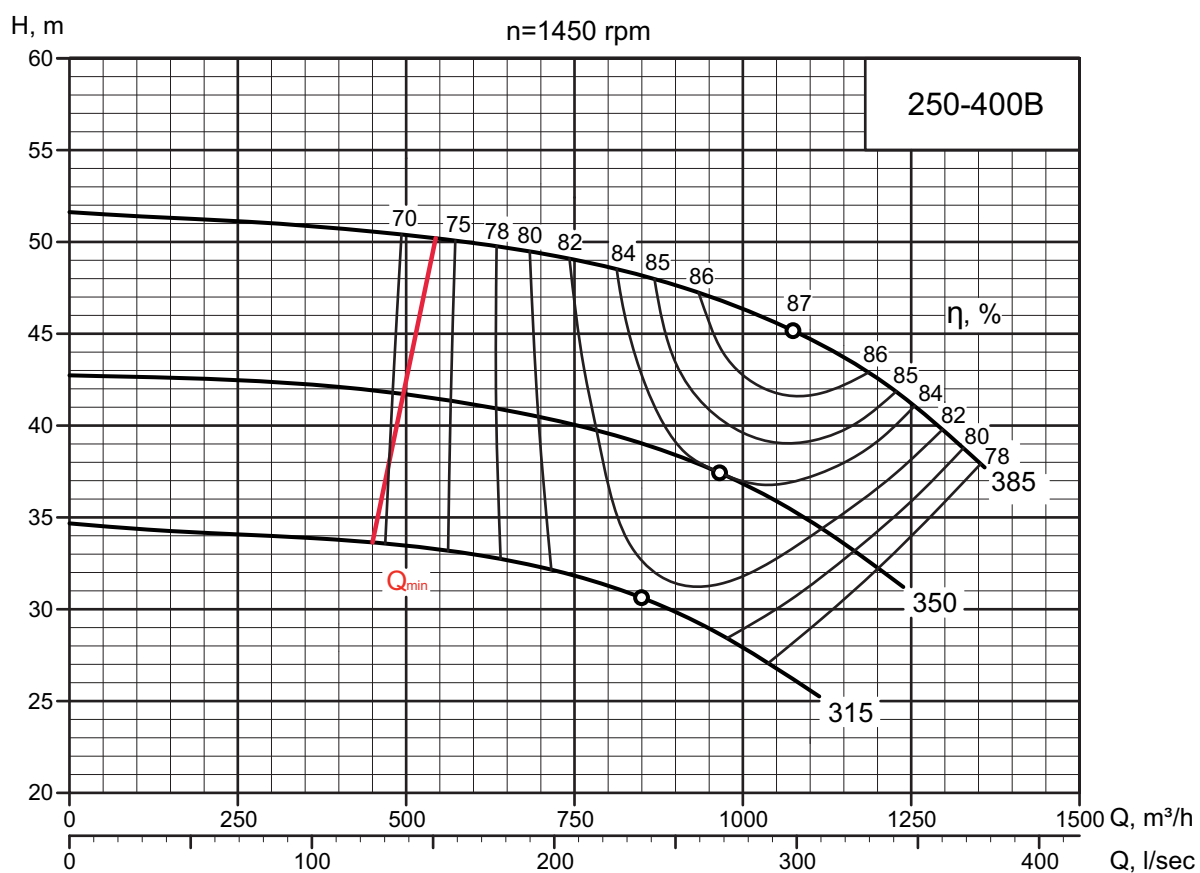
ISO 9906:2012 Grade 2B



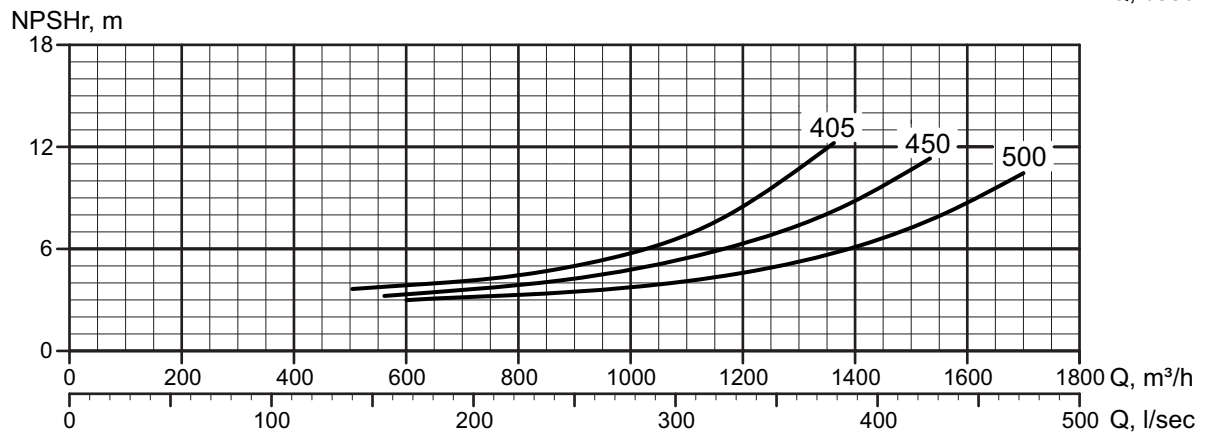
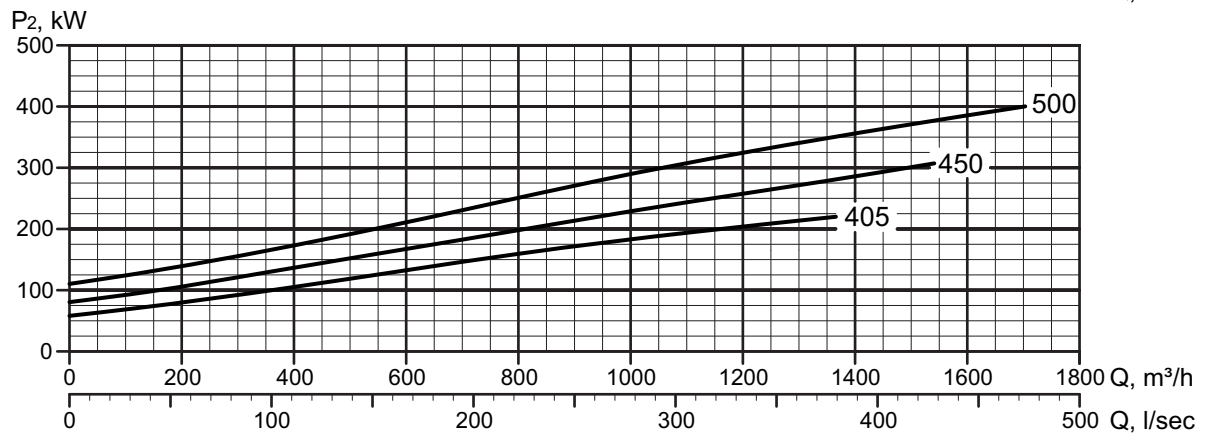
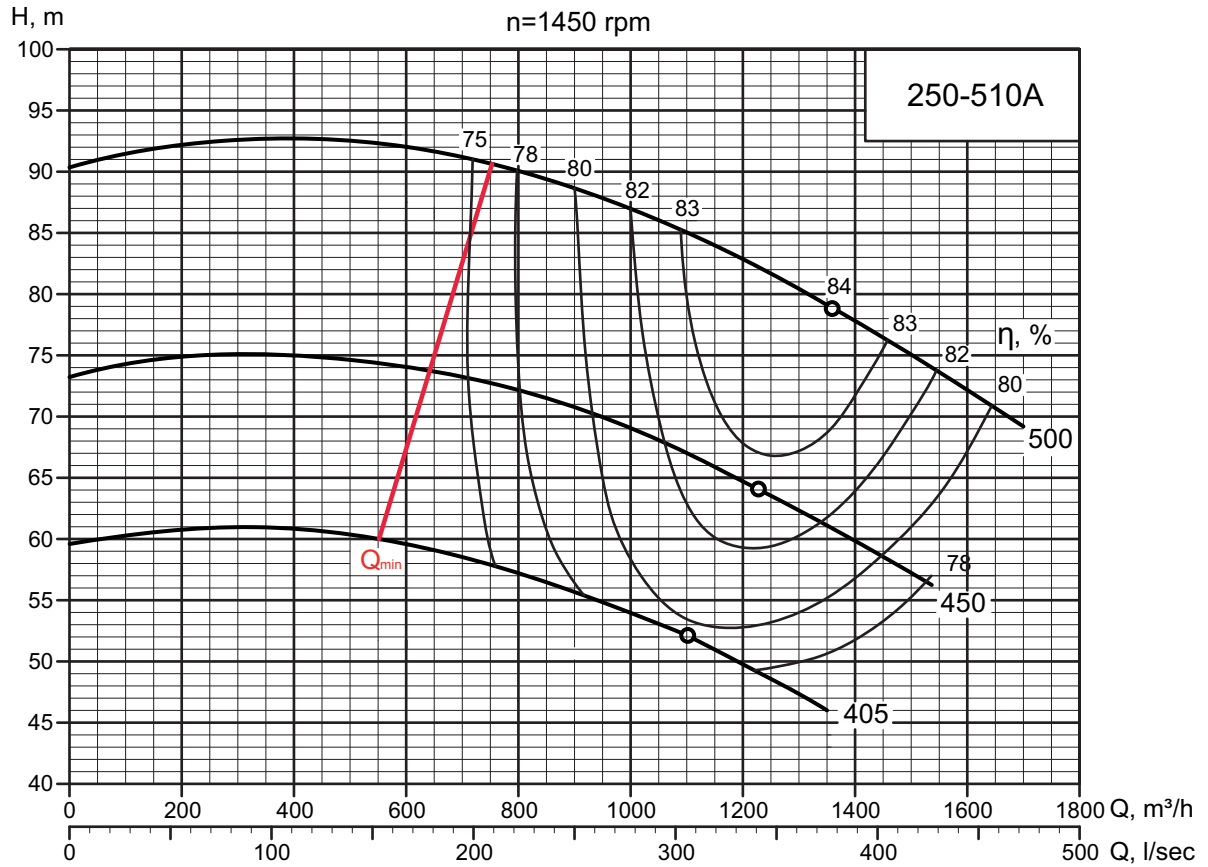
ISO 9906:2012 Grade 2B



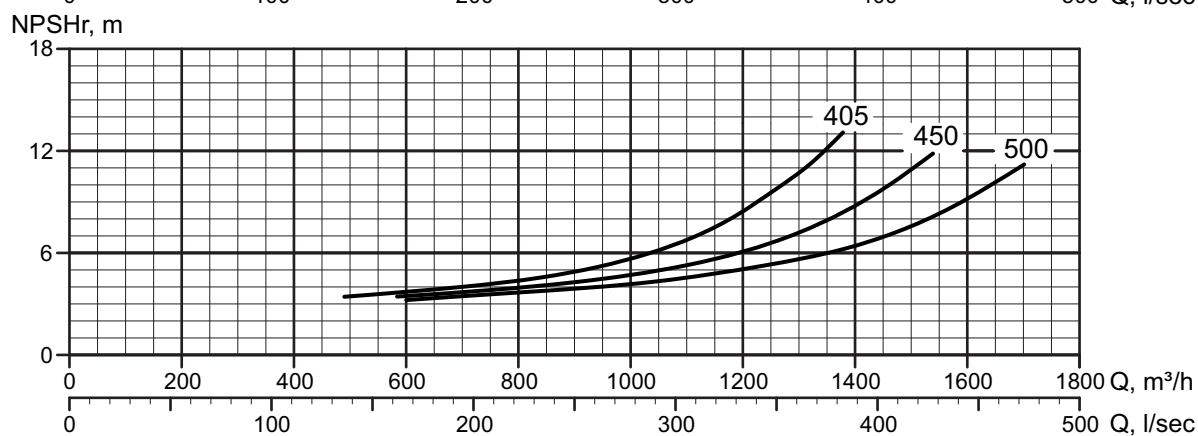
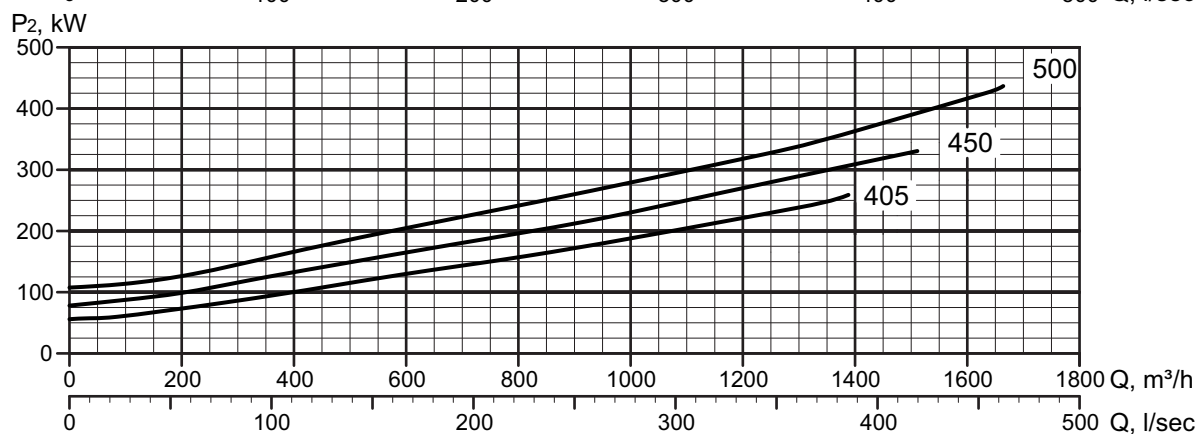
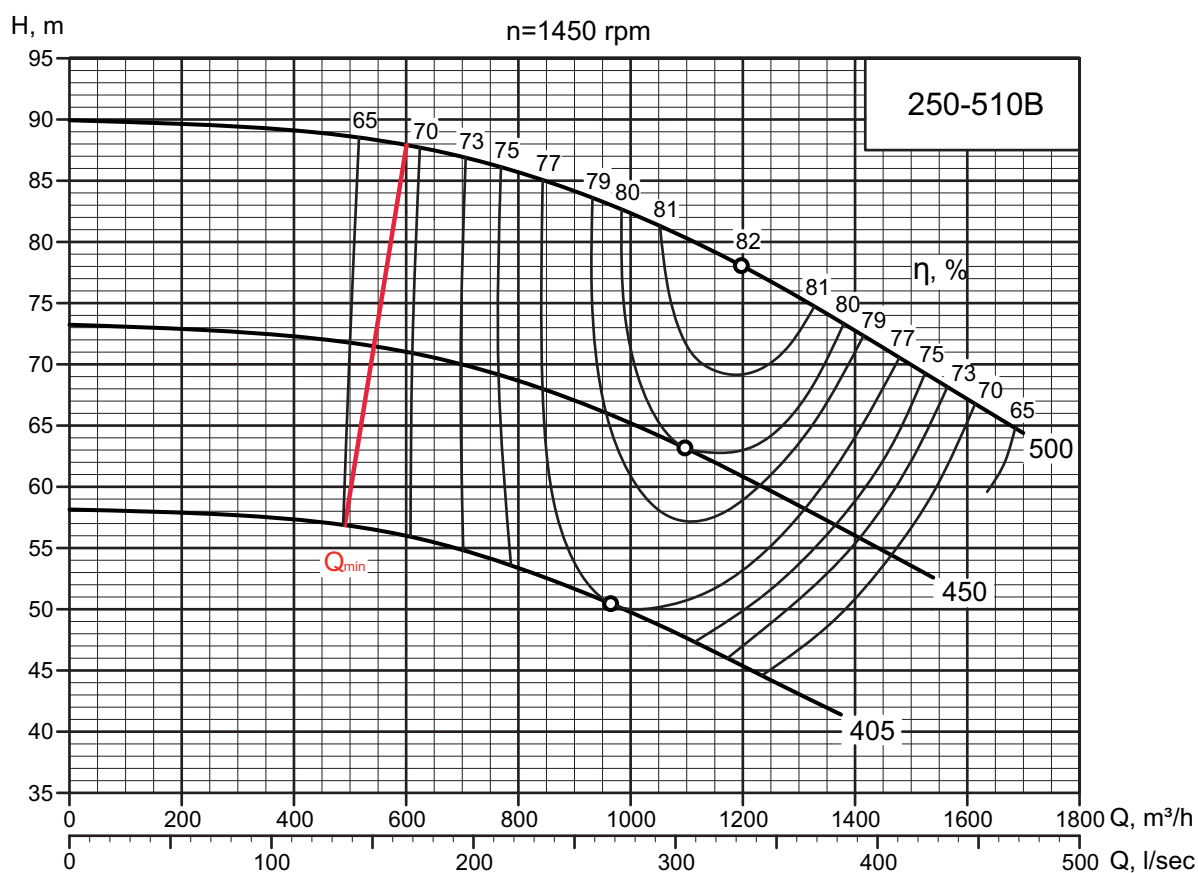
ISO 9906:2012 Grade 2B



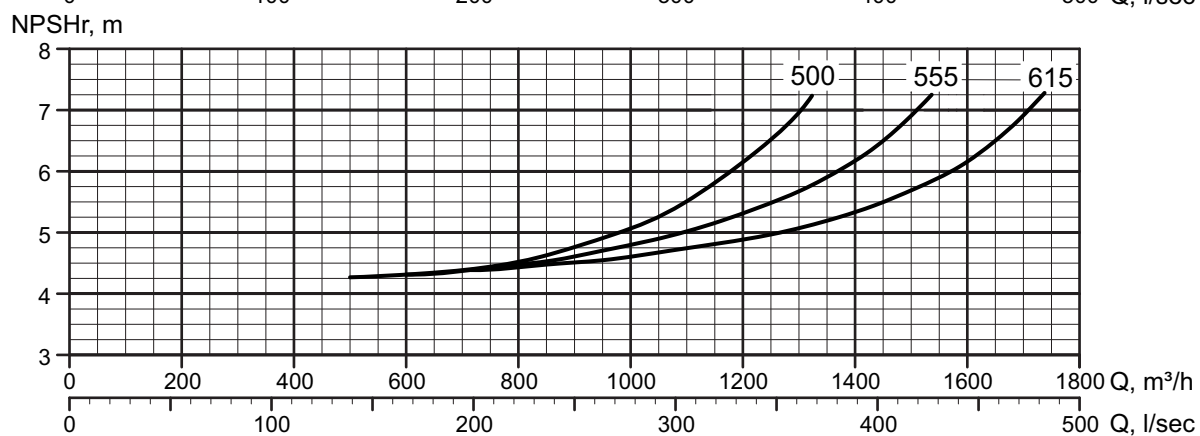
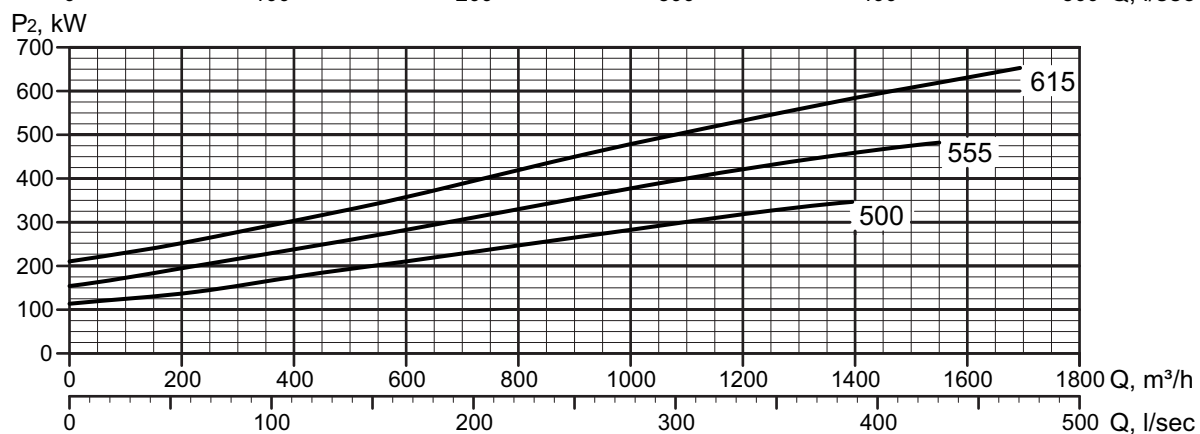
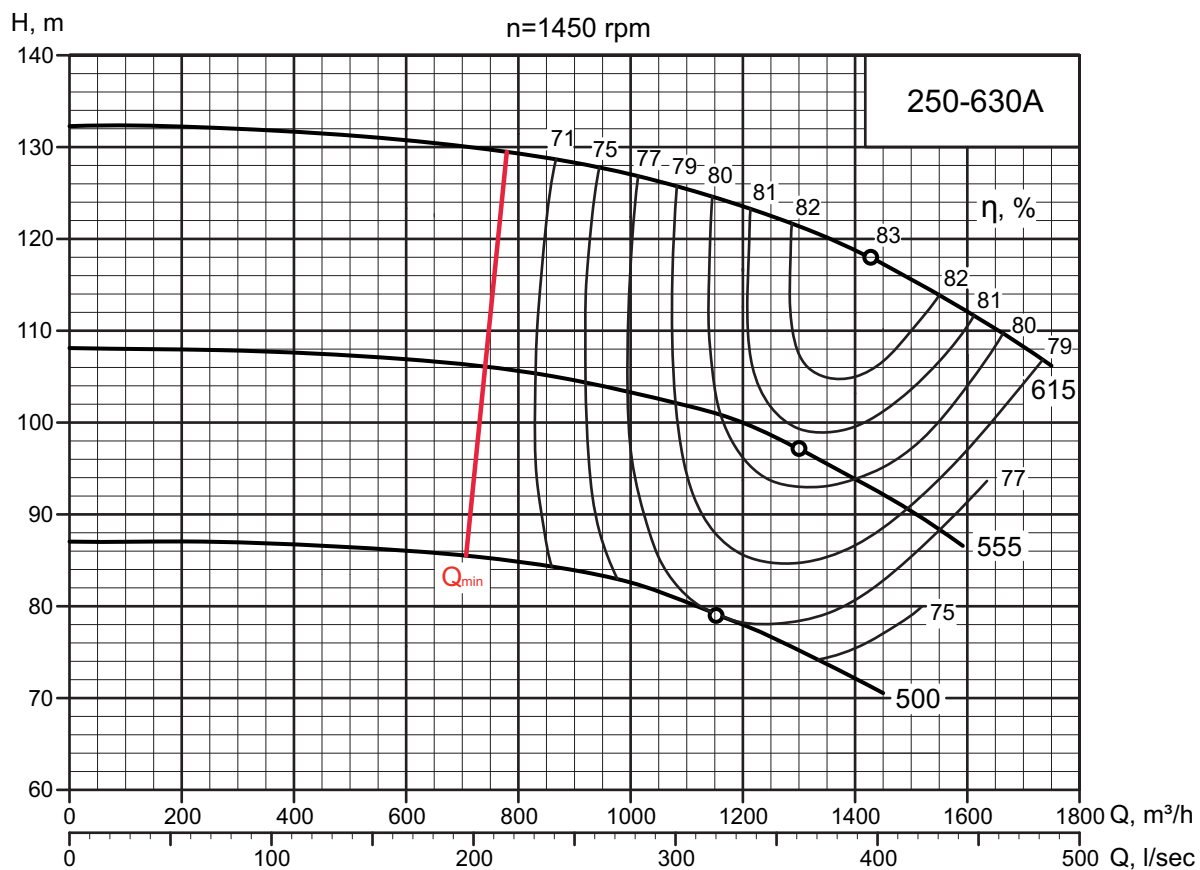
ISO 9906:2012 Grade 2B



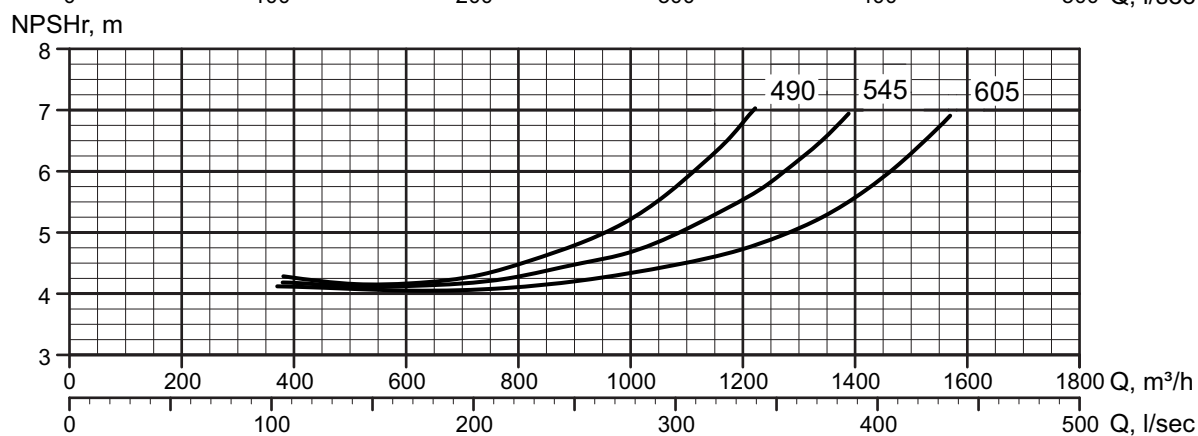
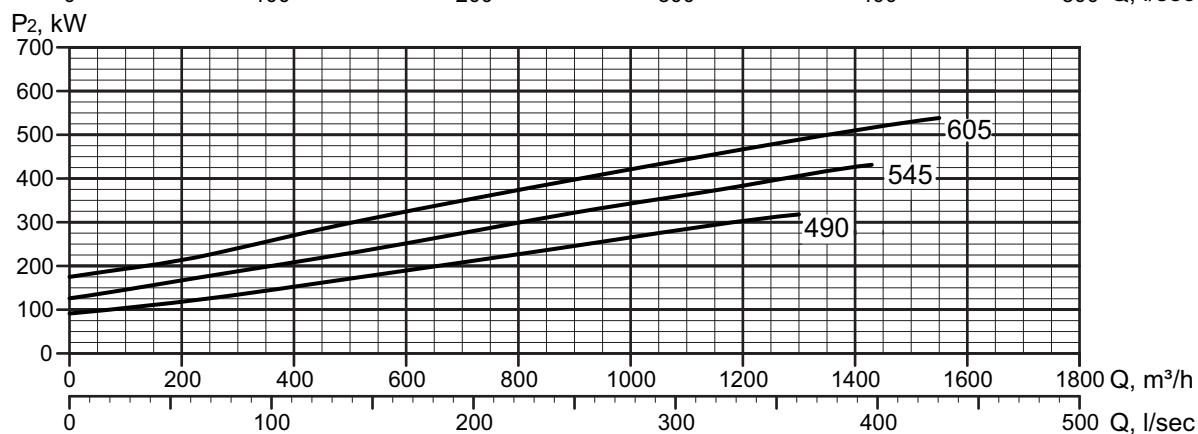
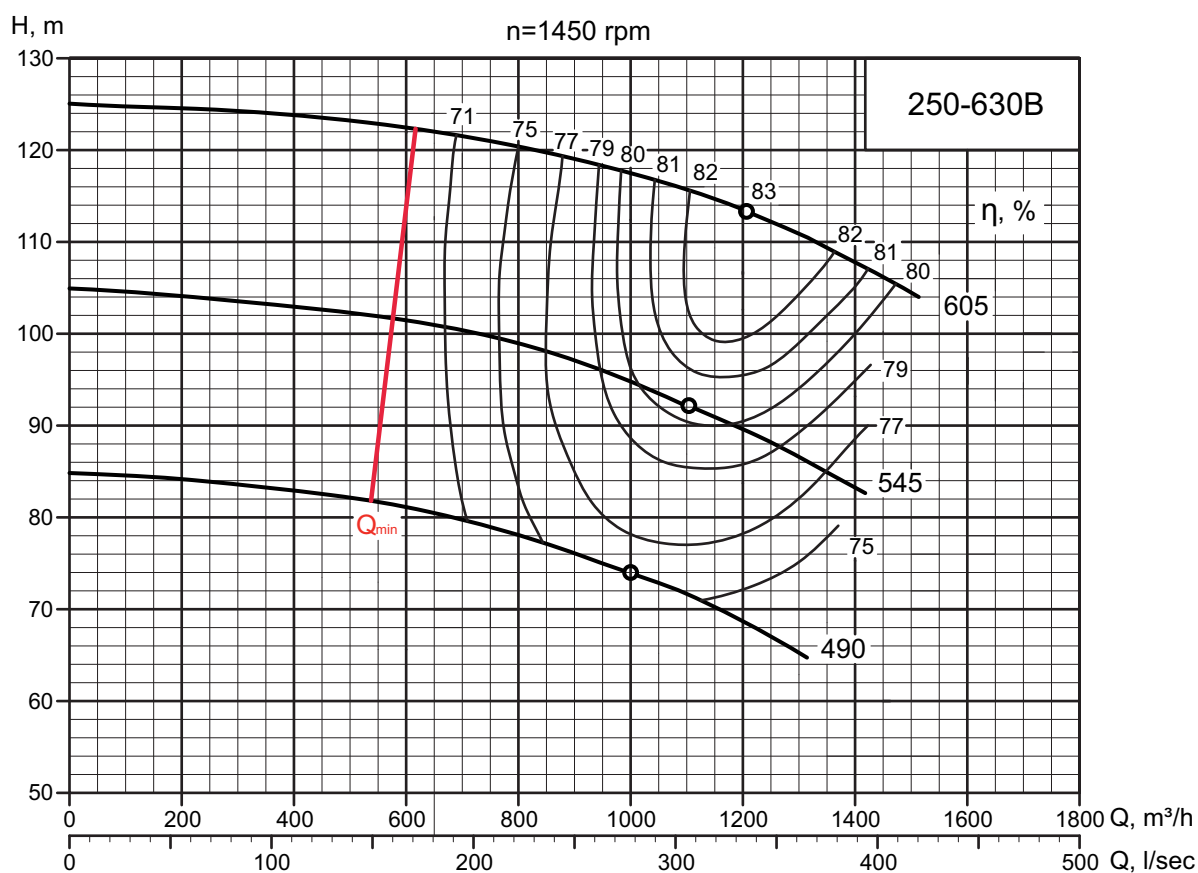
ISO 9906:2012 Grade 2B



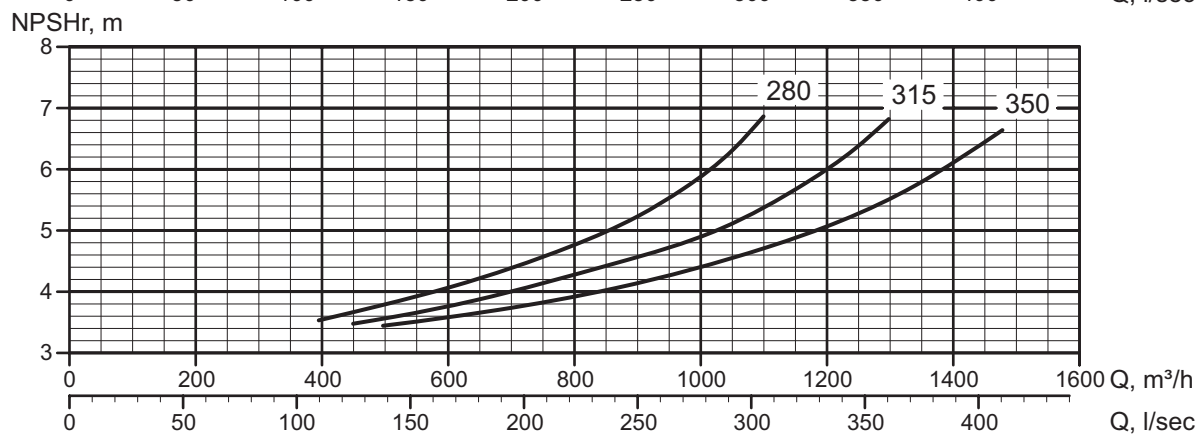
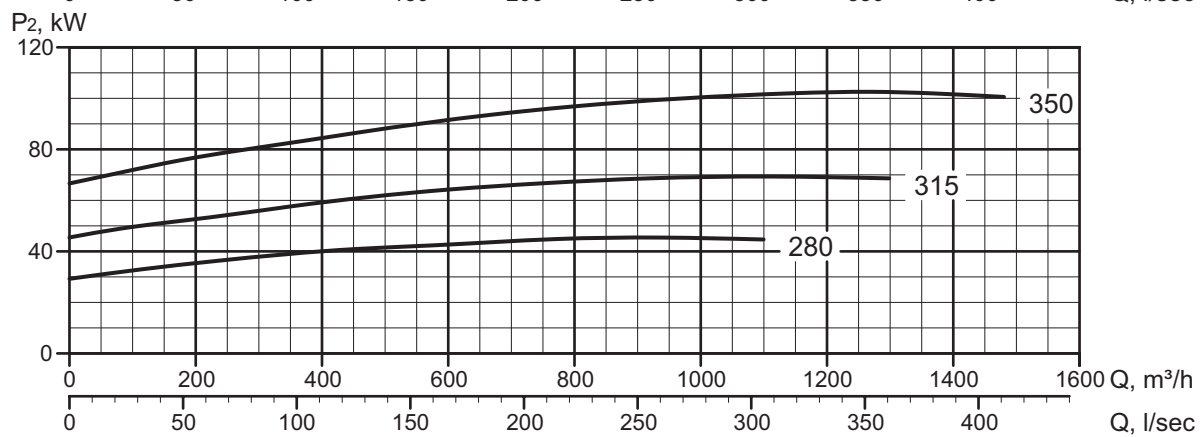
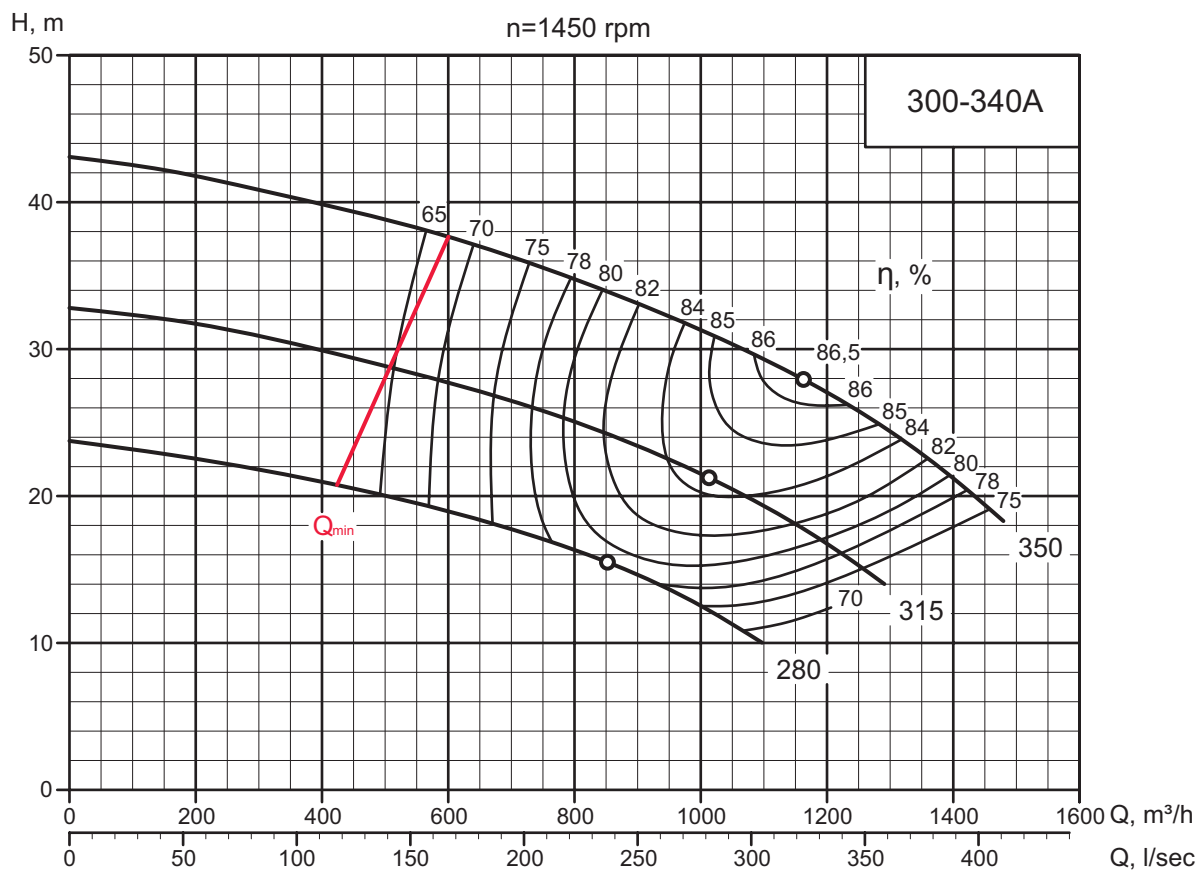
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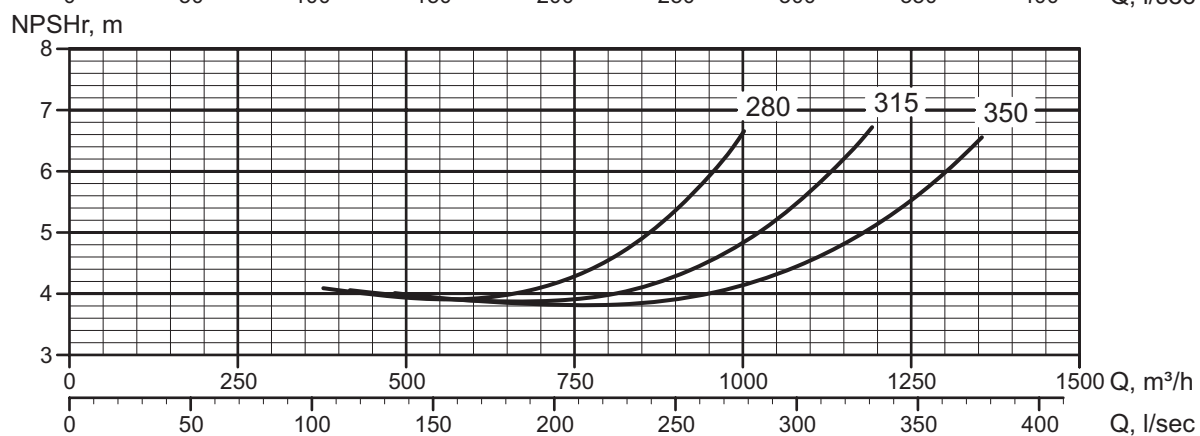
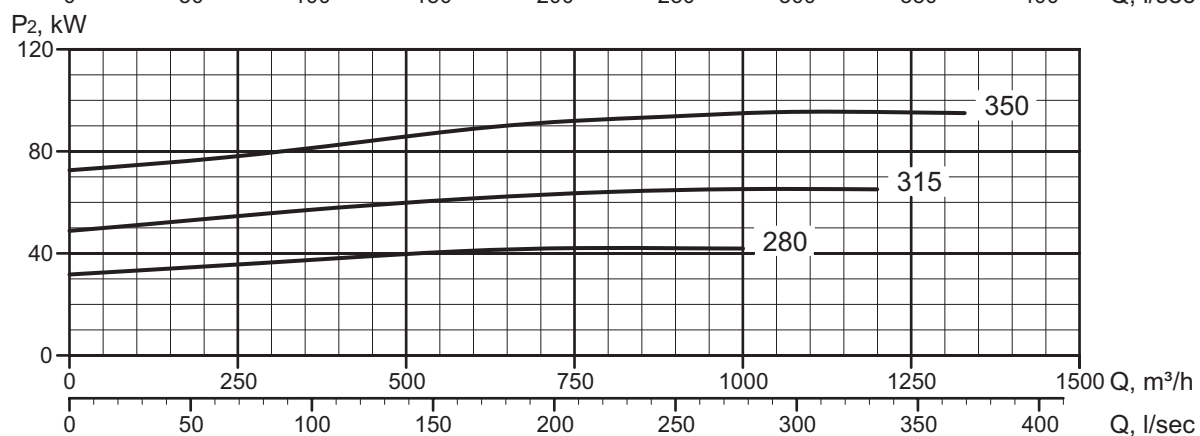
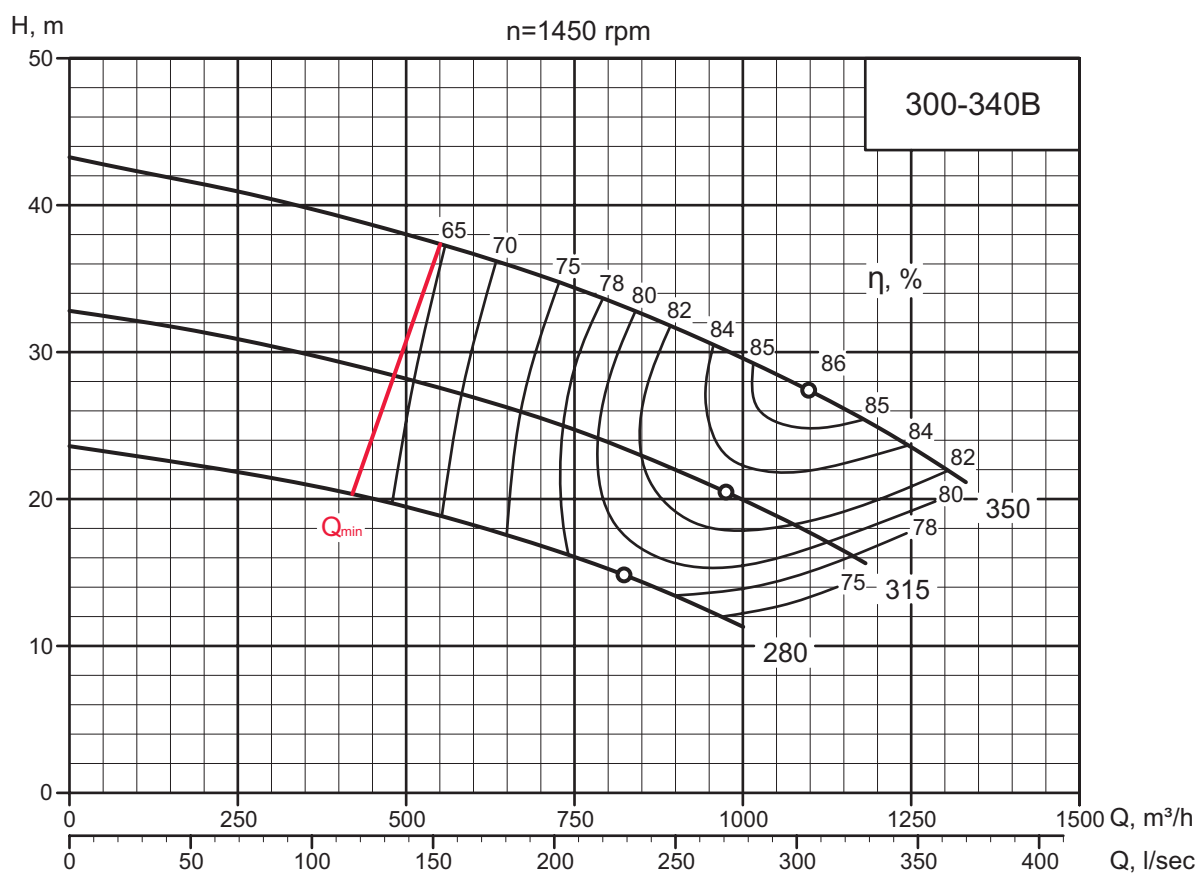
ISO 9906:2012 Grade 2B



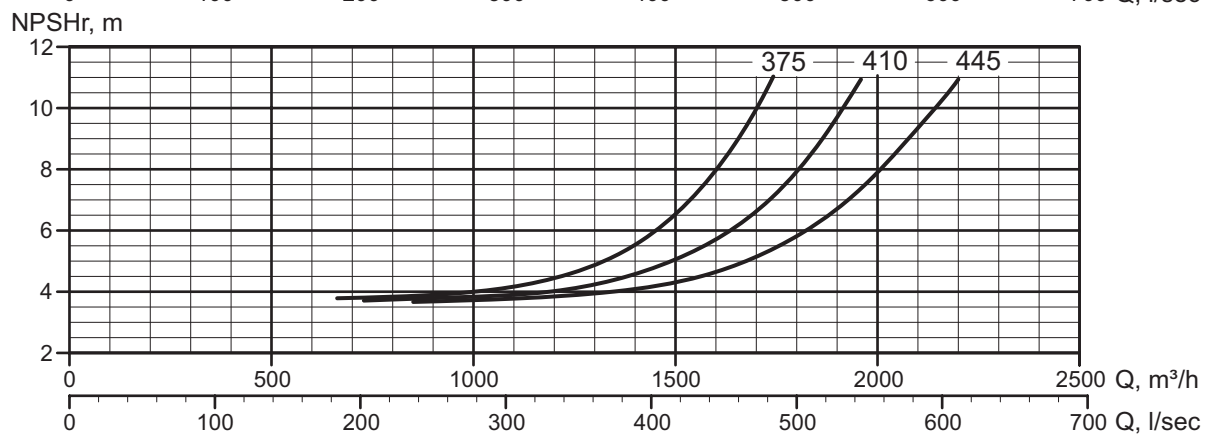
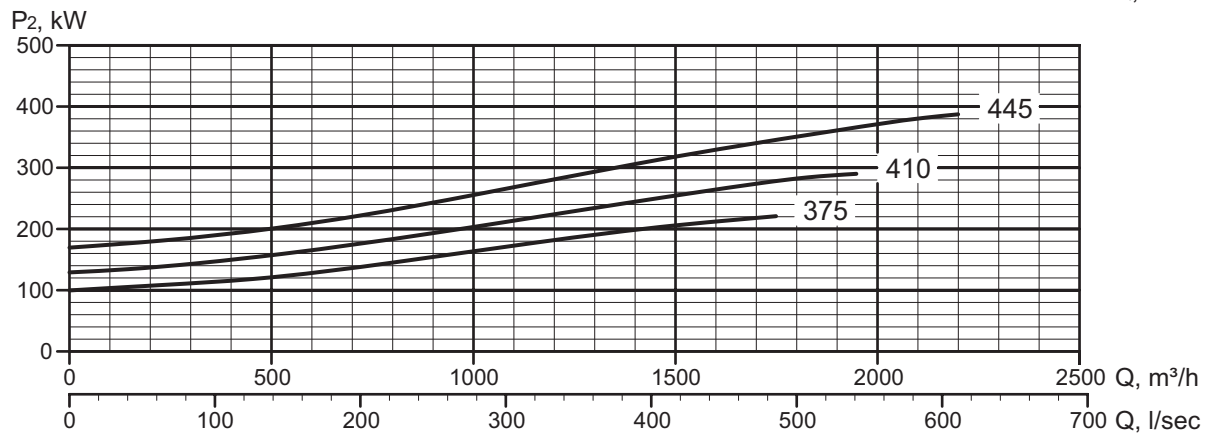
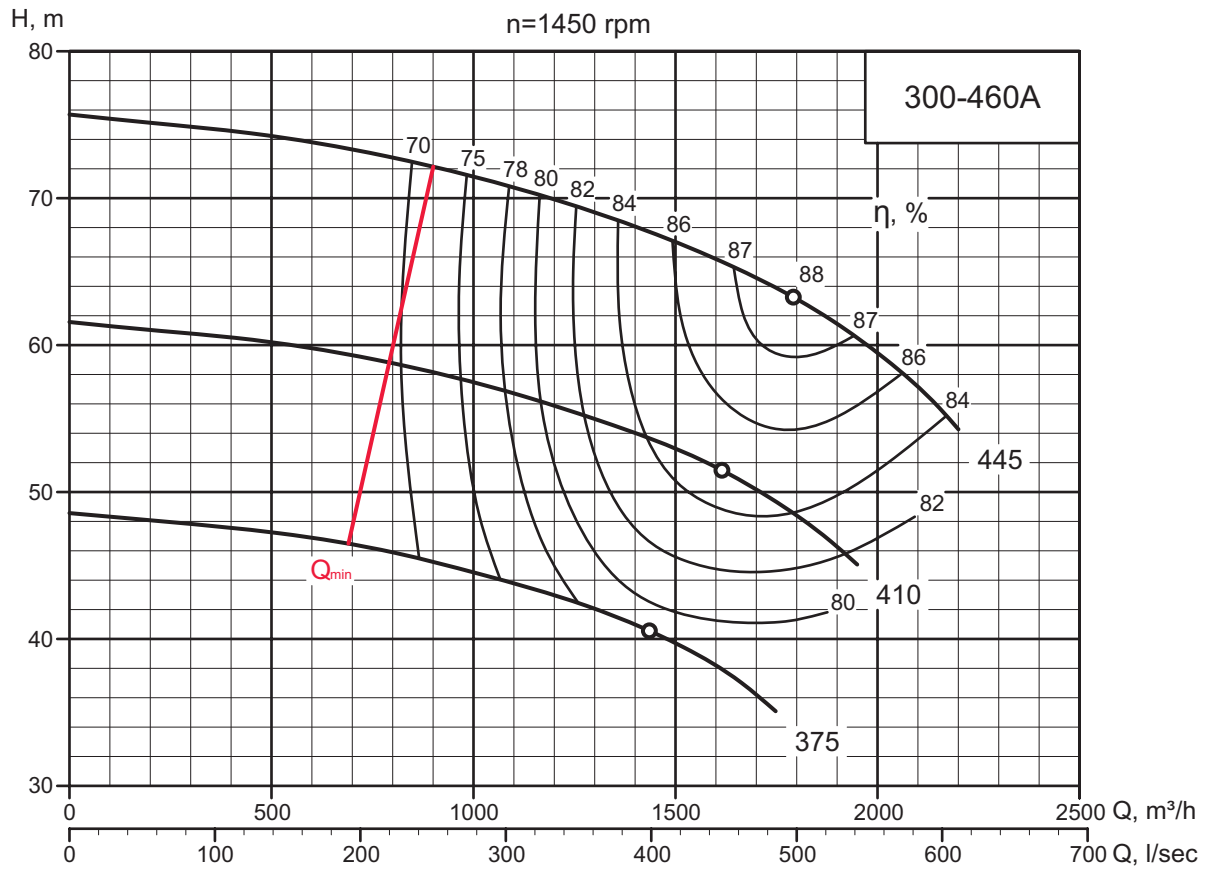
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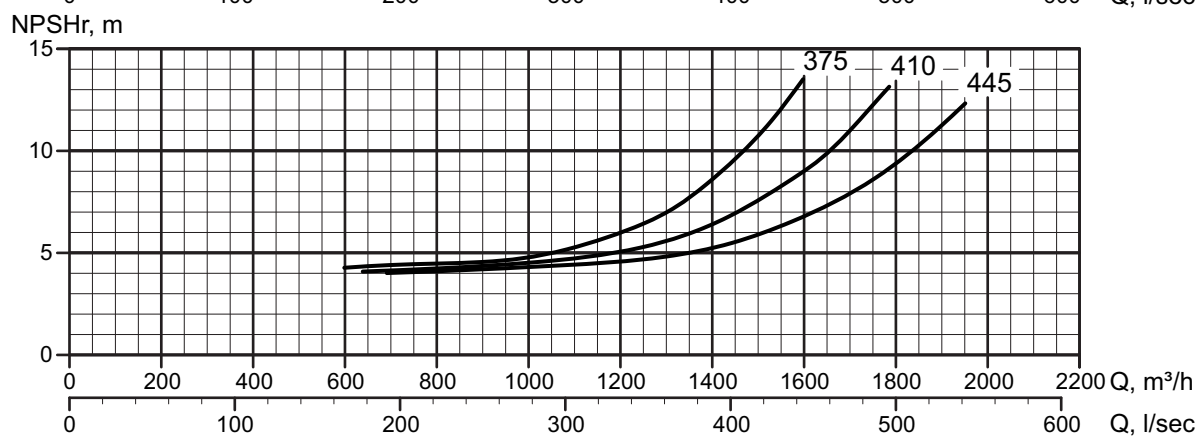
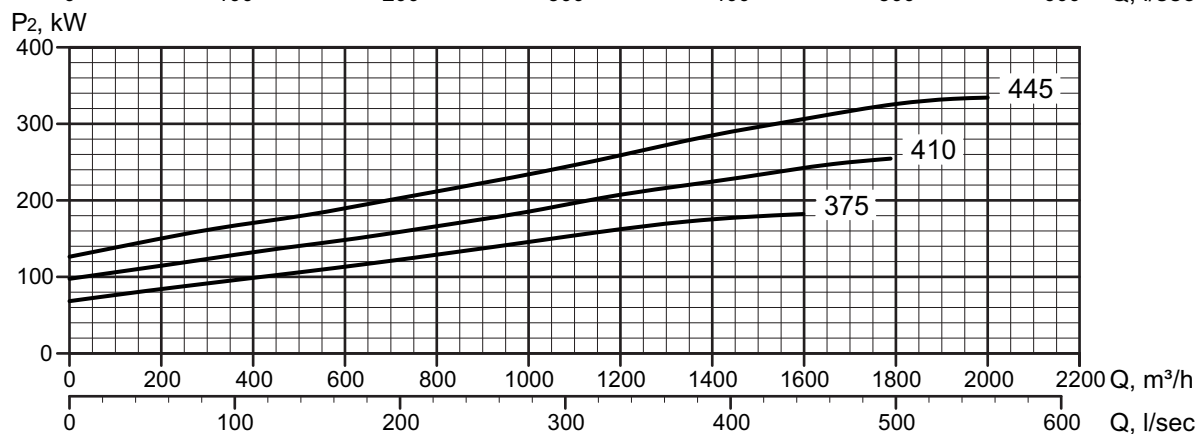
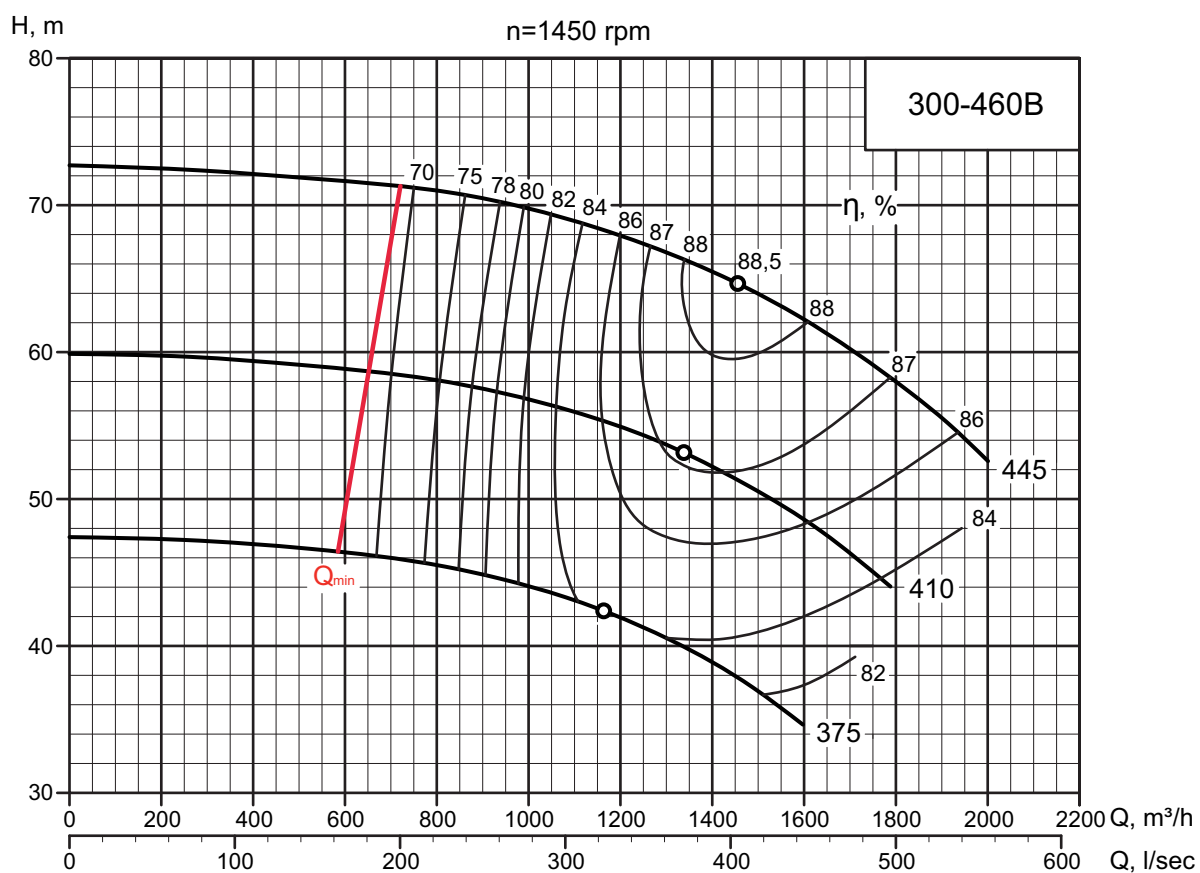
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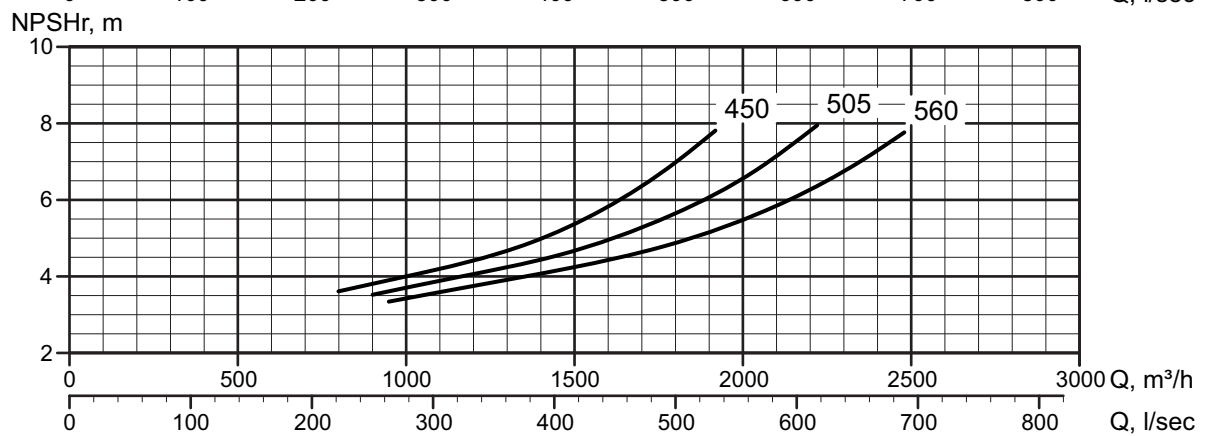
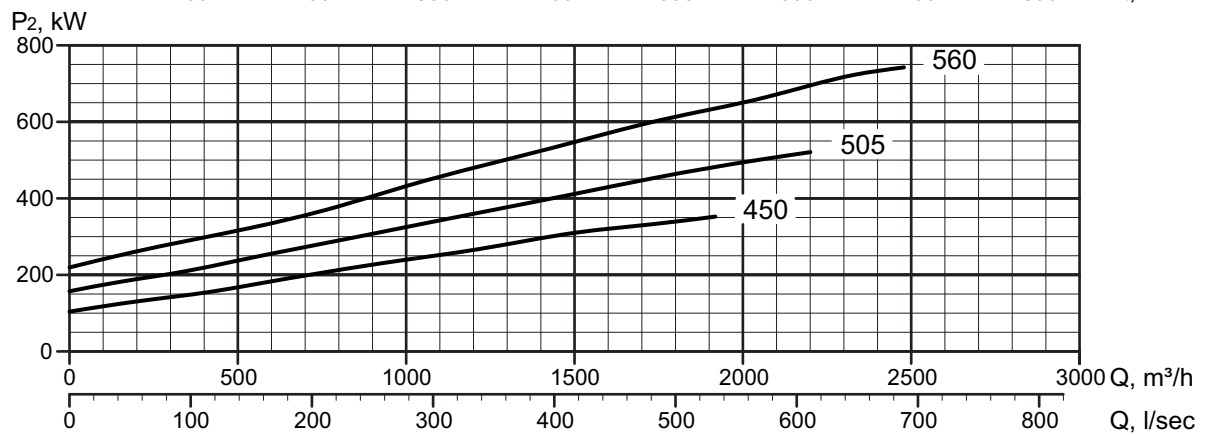
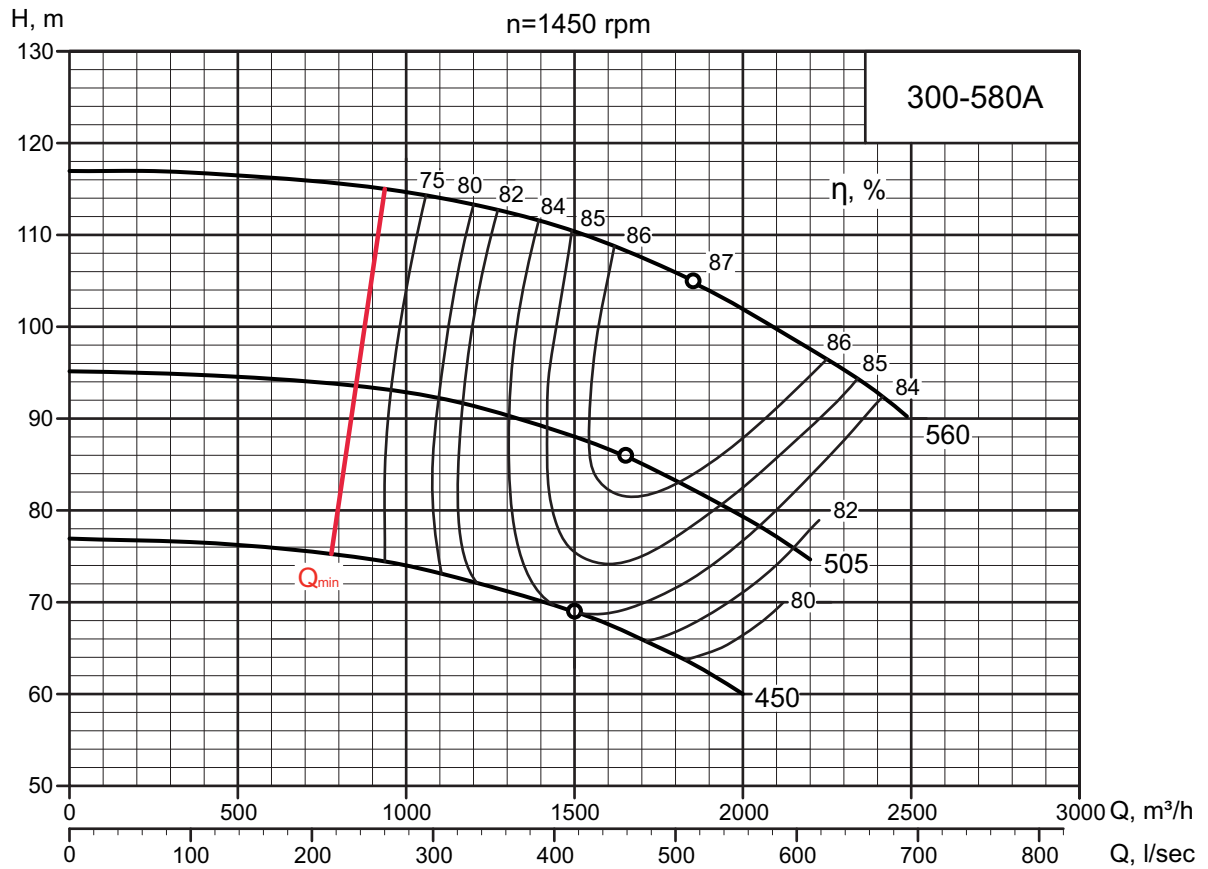
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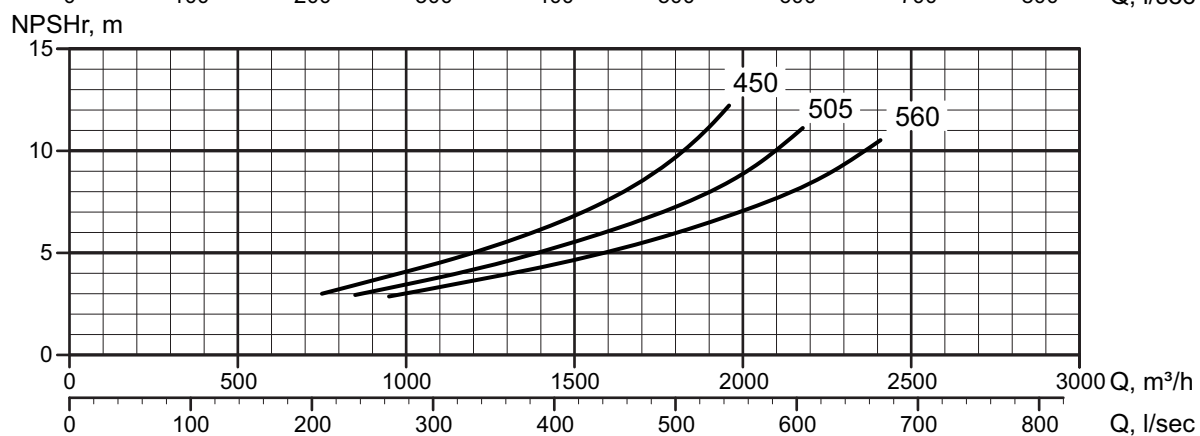
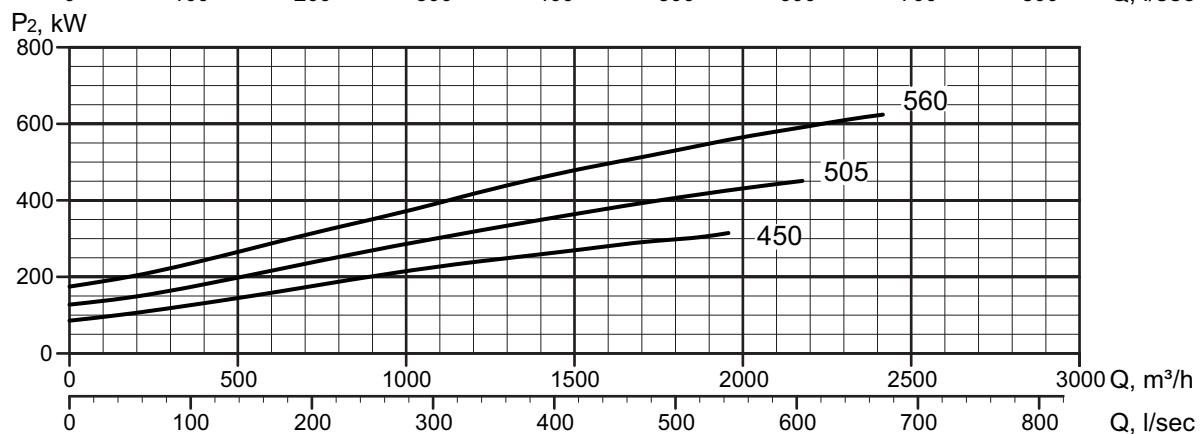
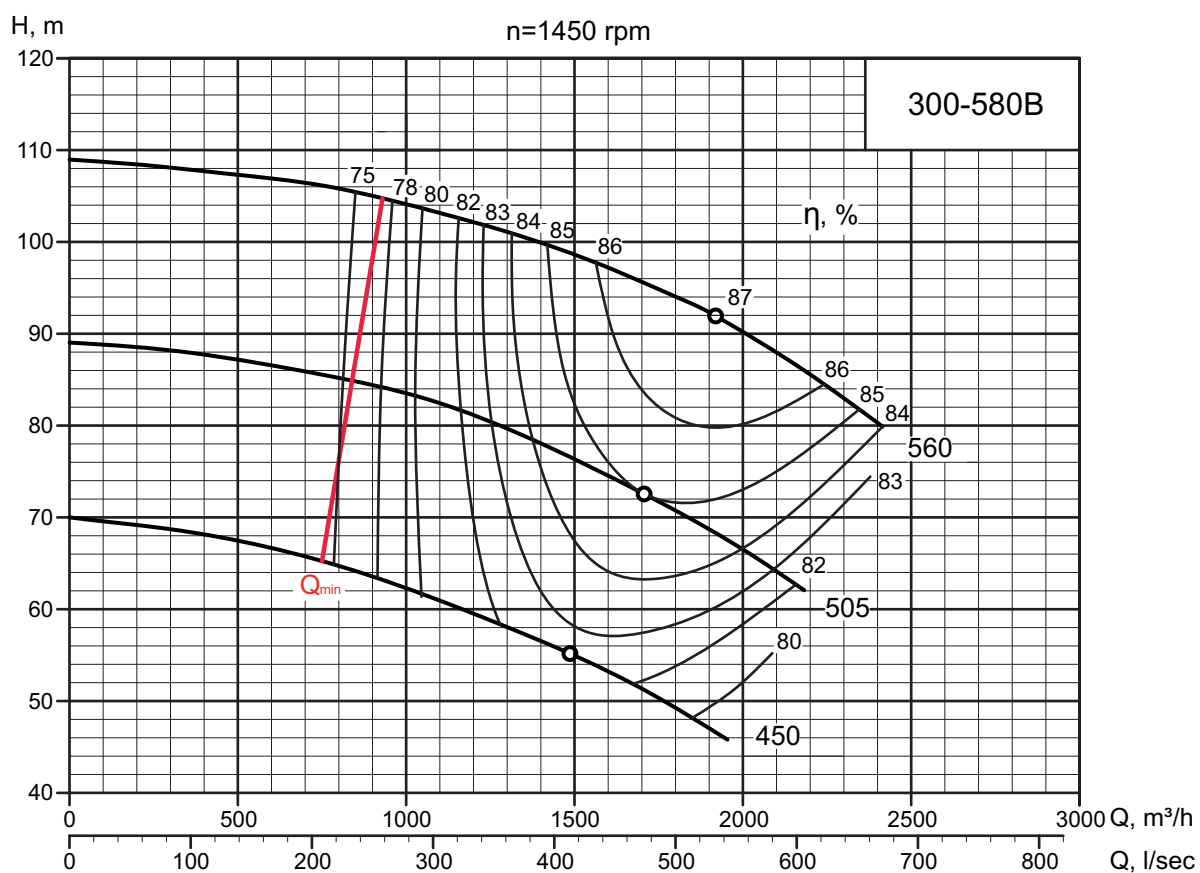
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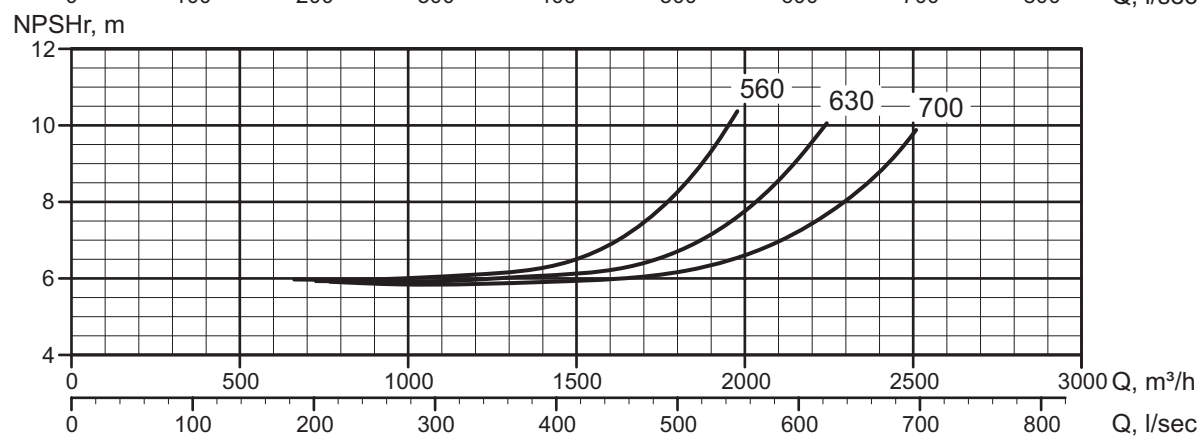
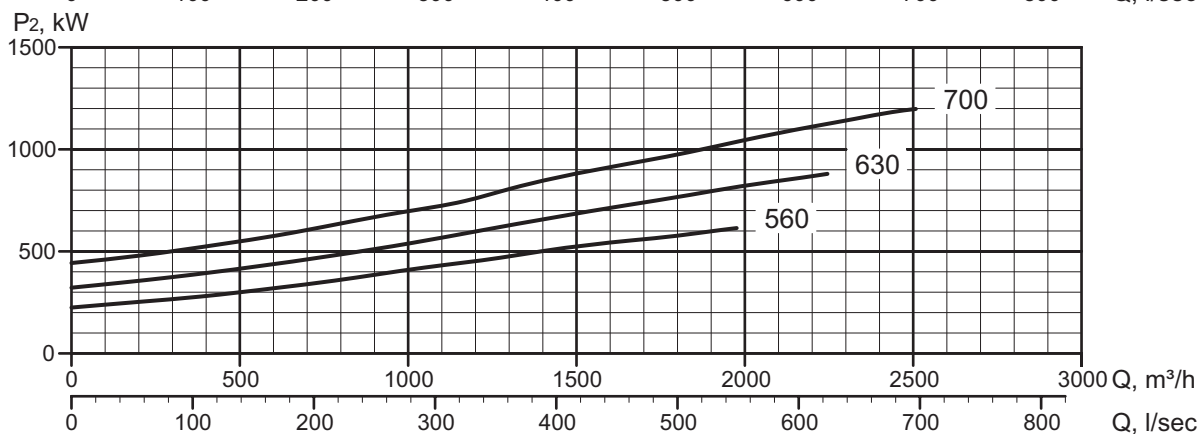
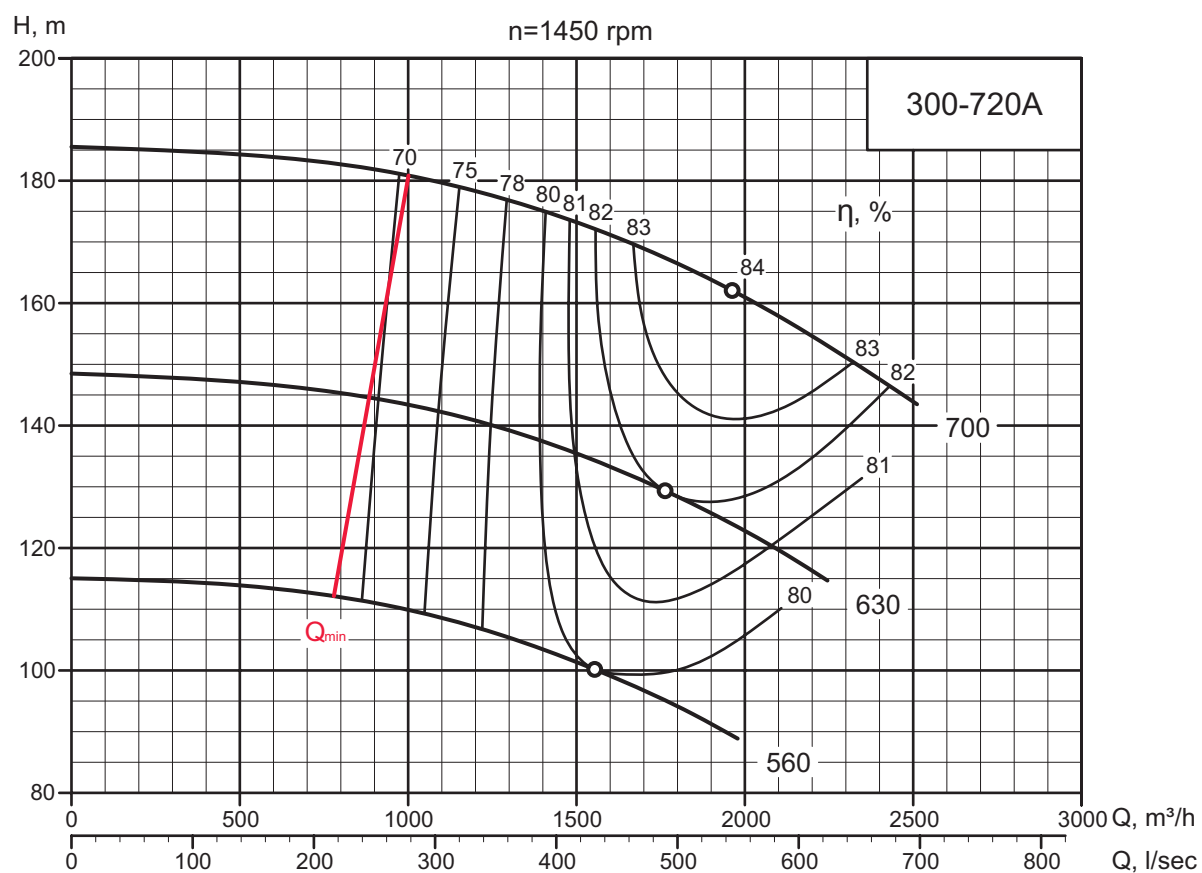
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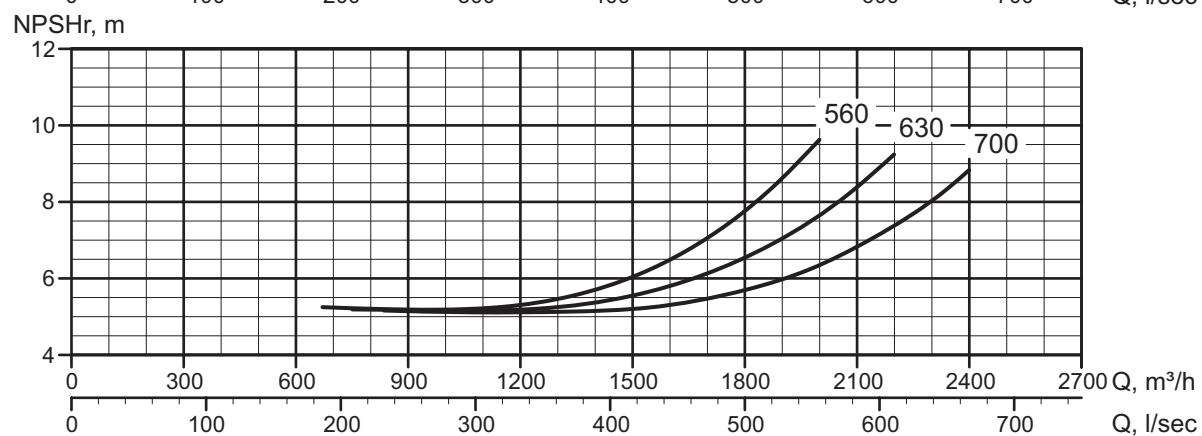
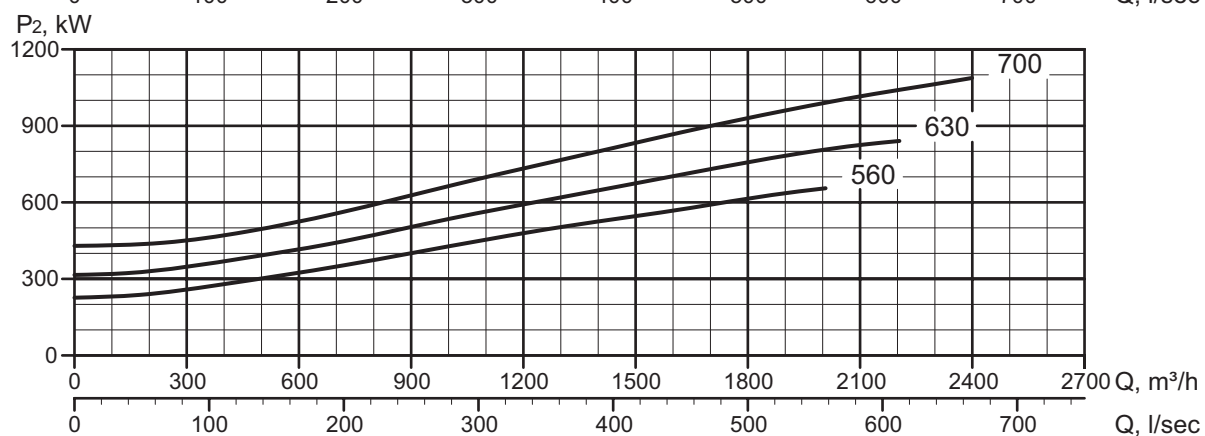
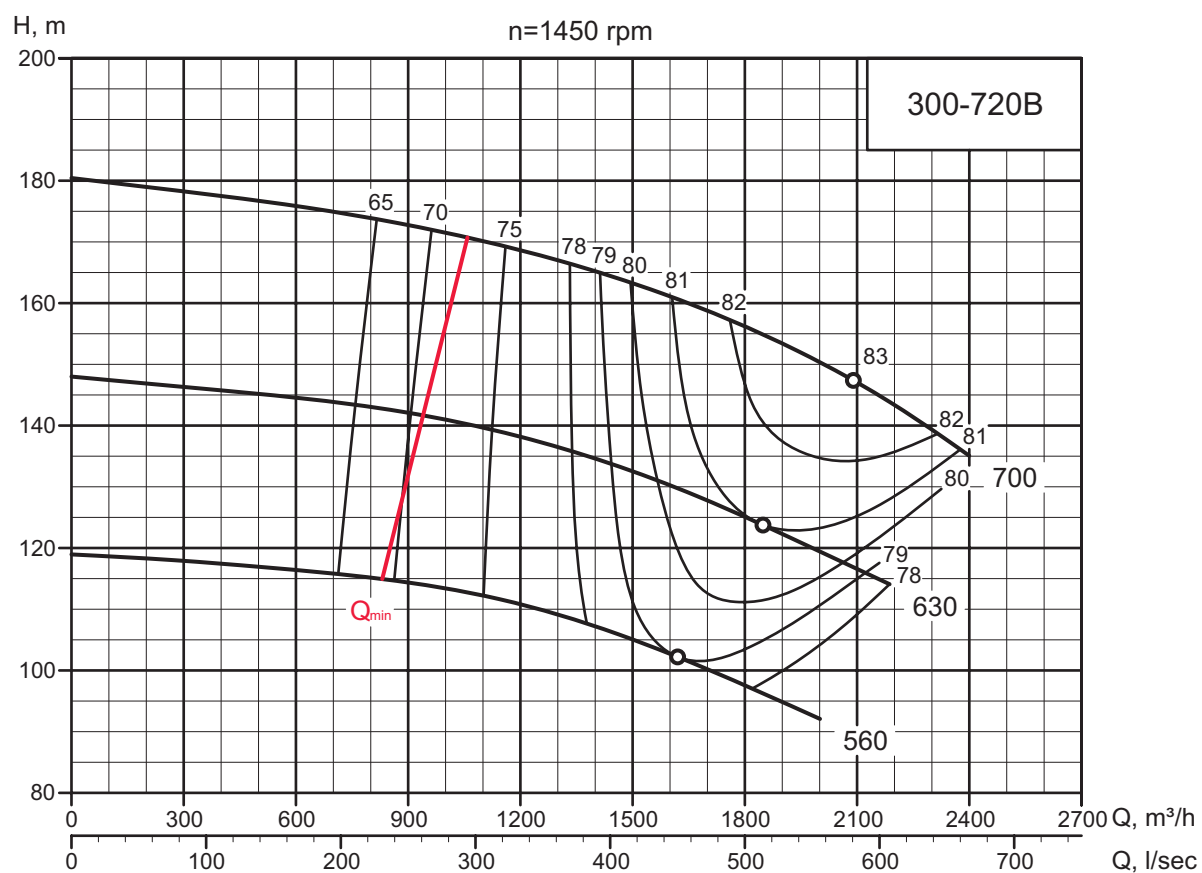
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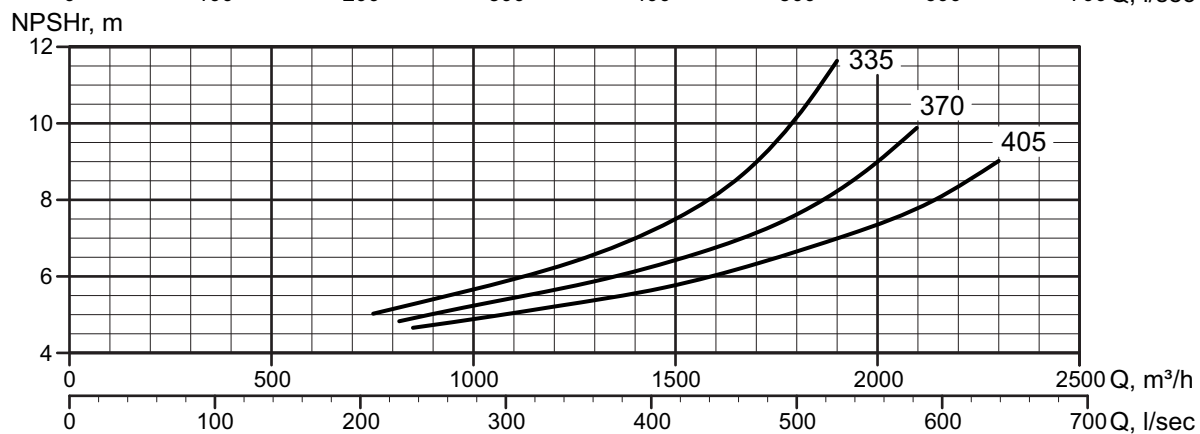
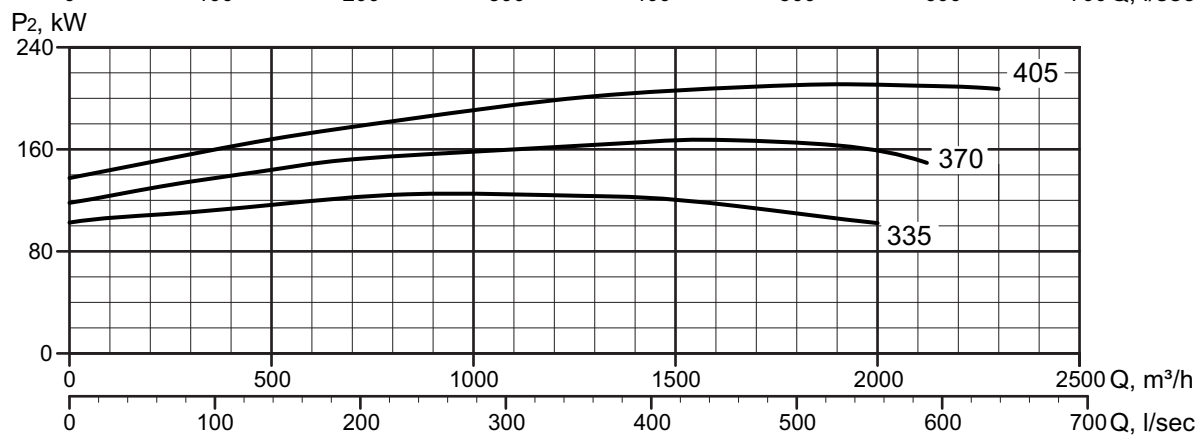
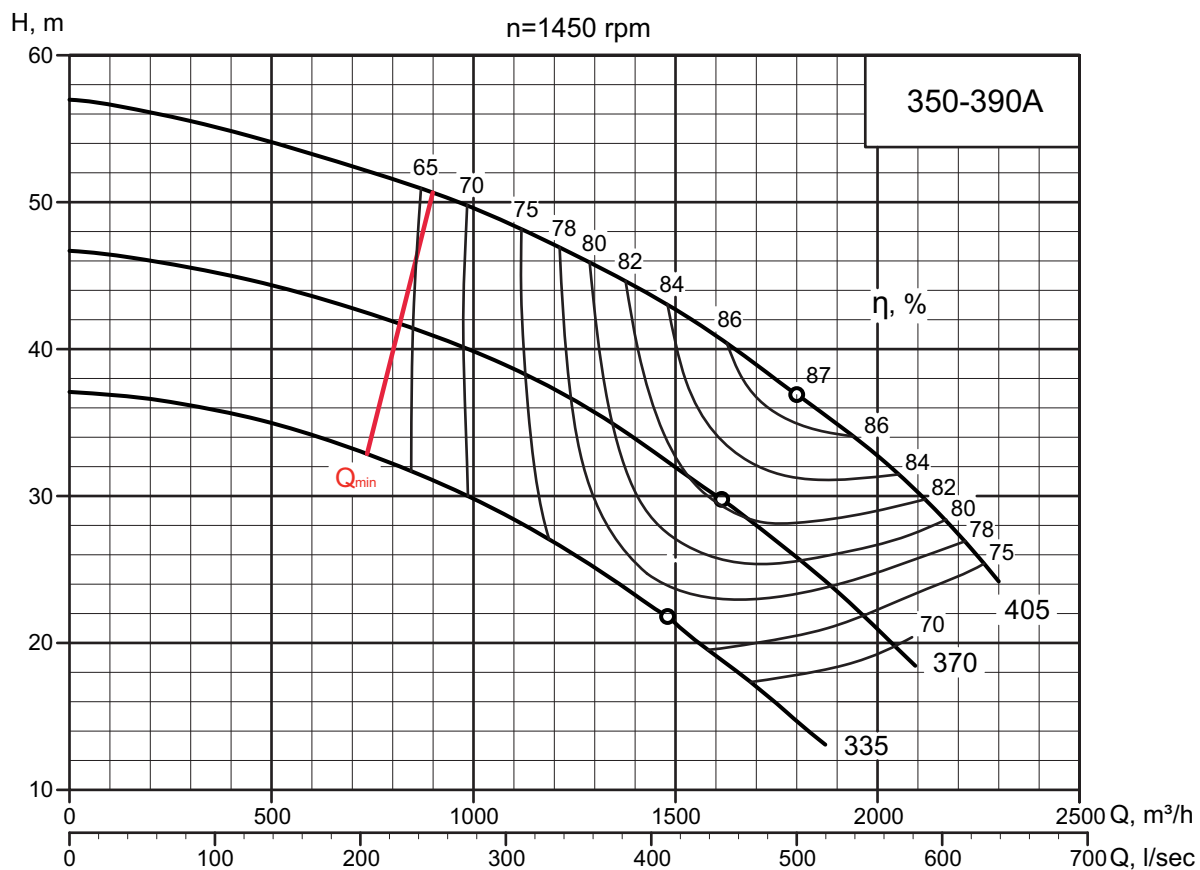
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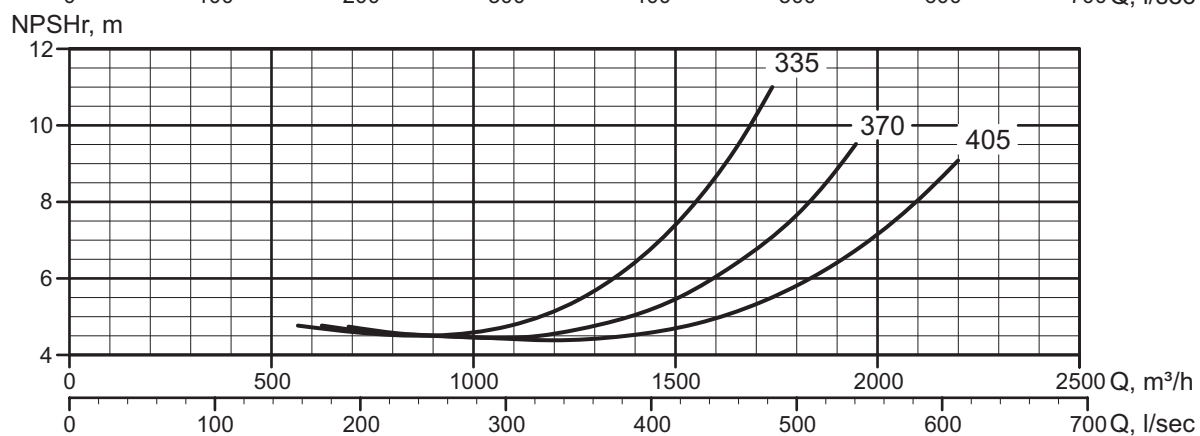
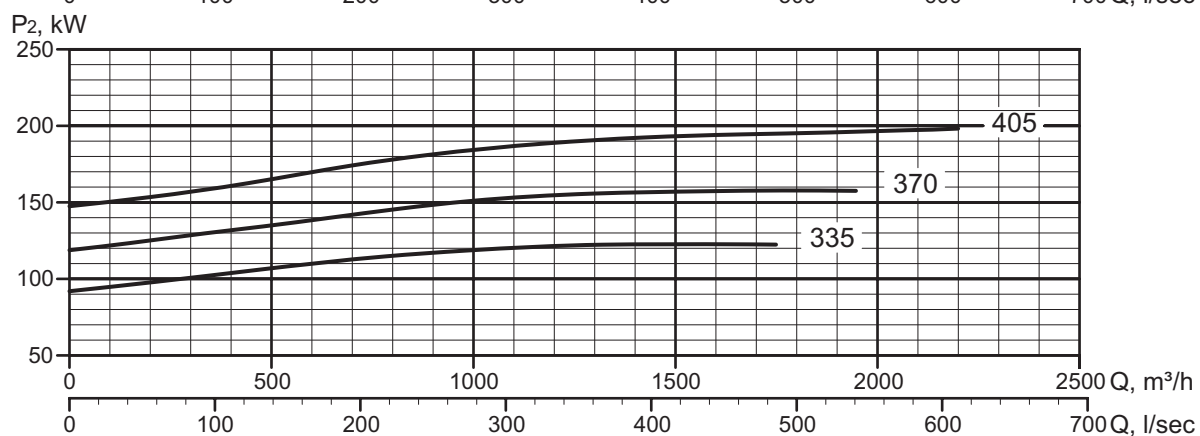
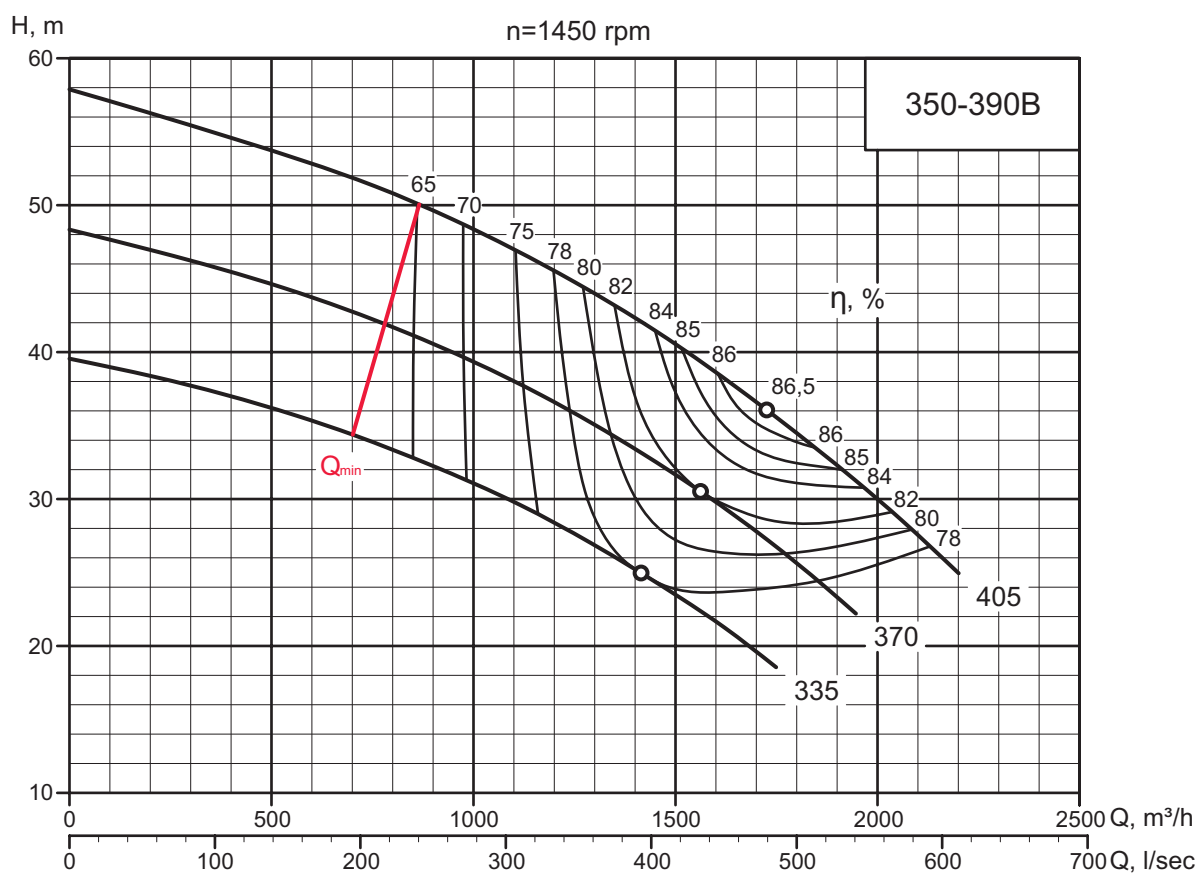
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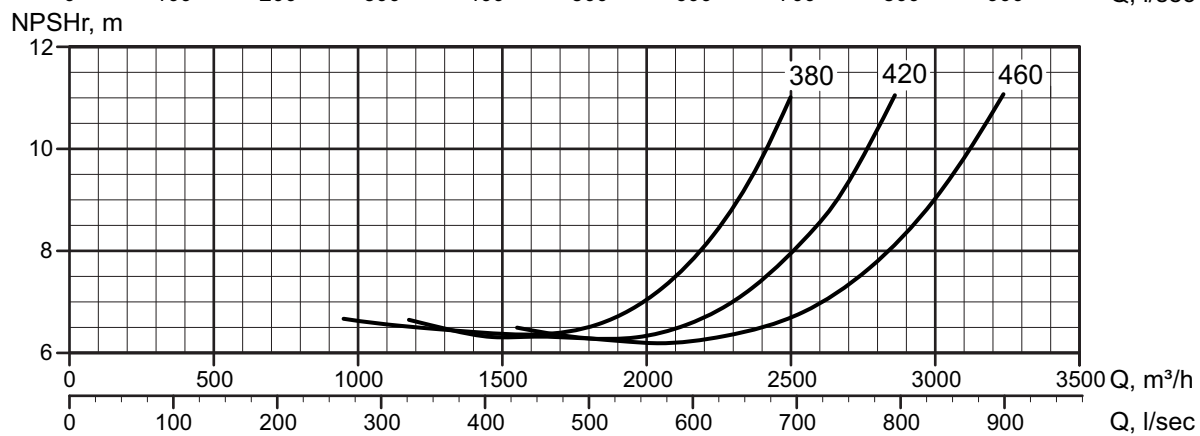
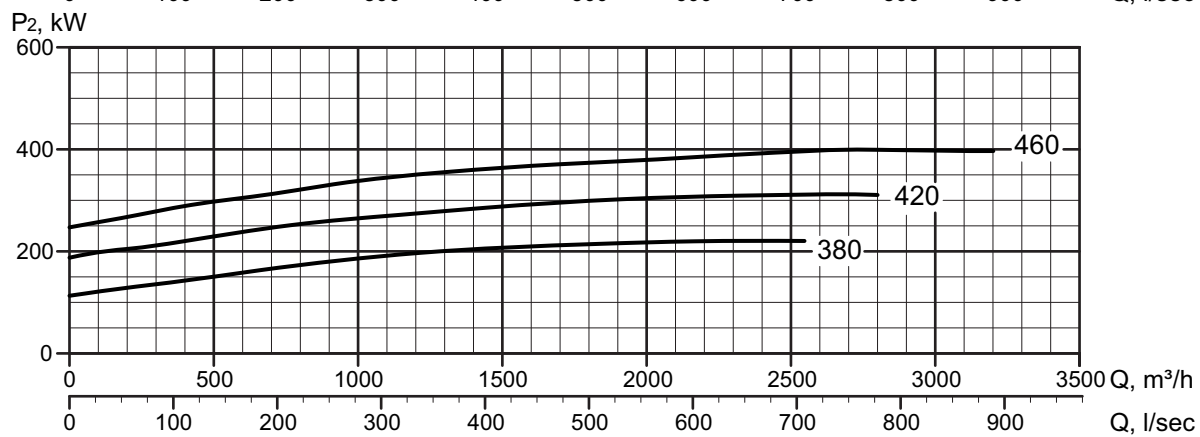
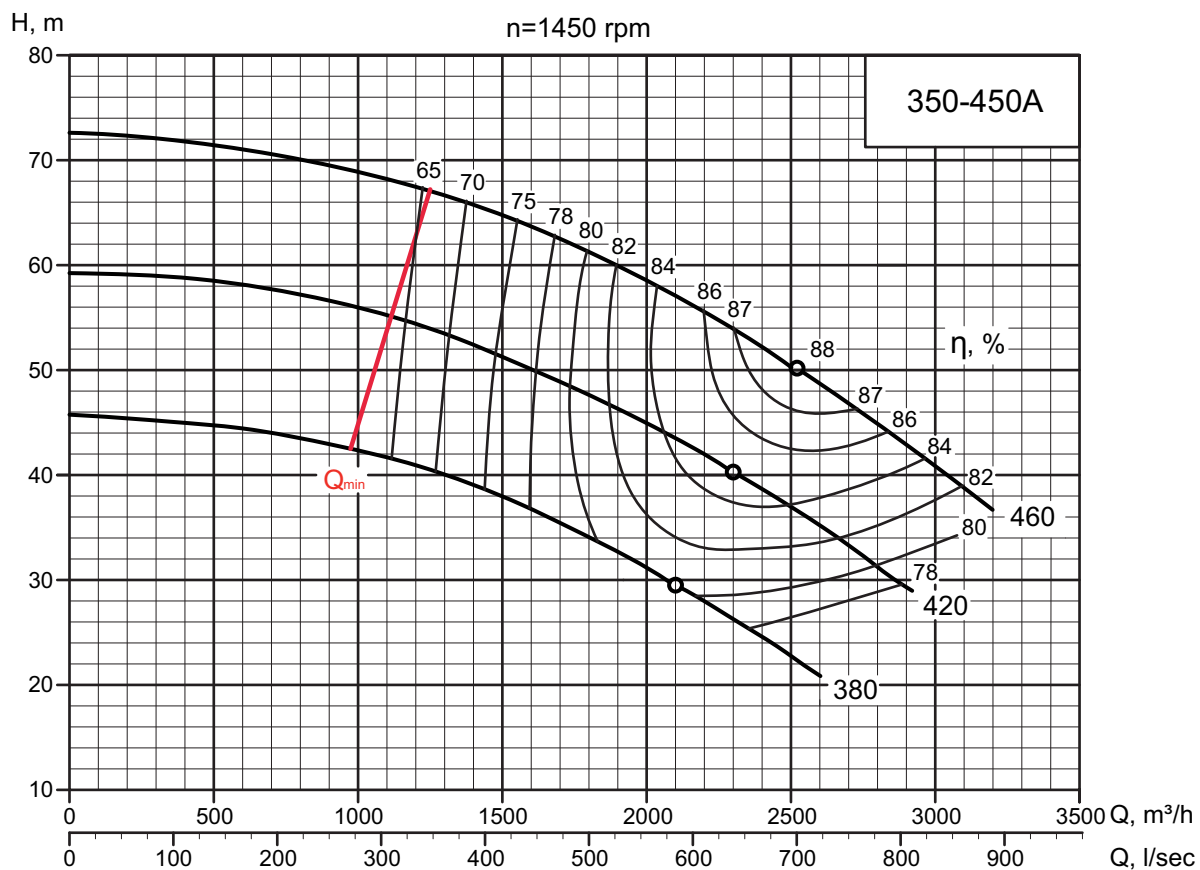
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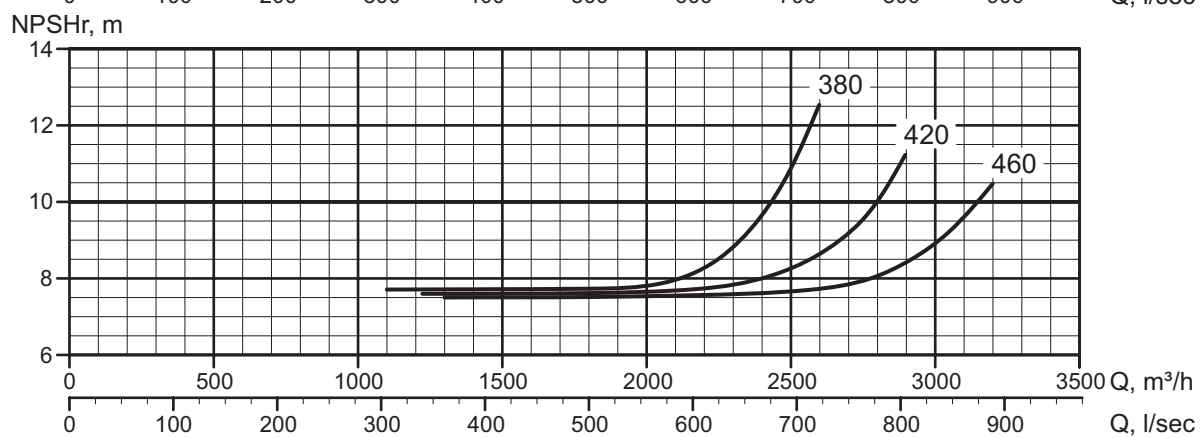
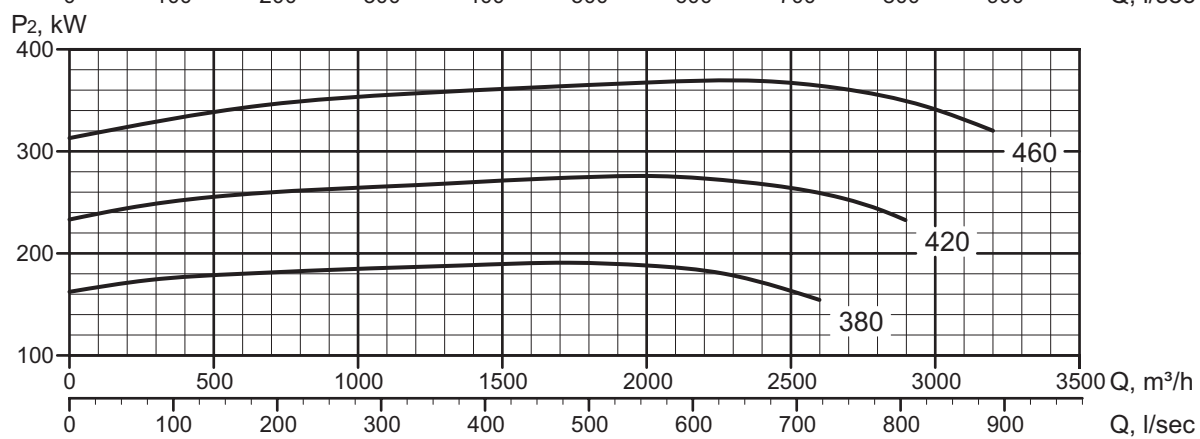
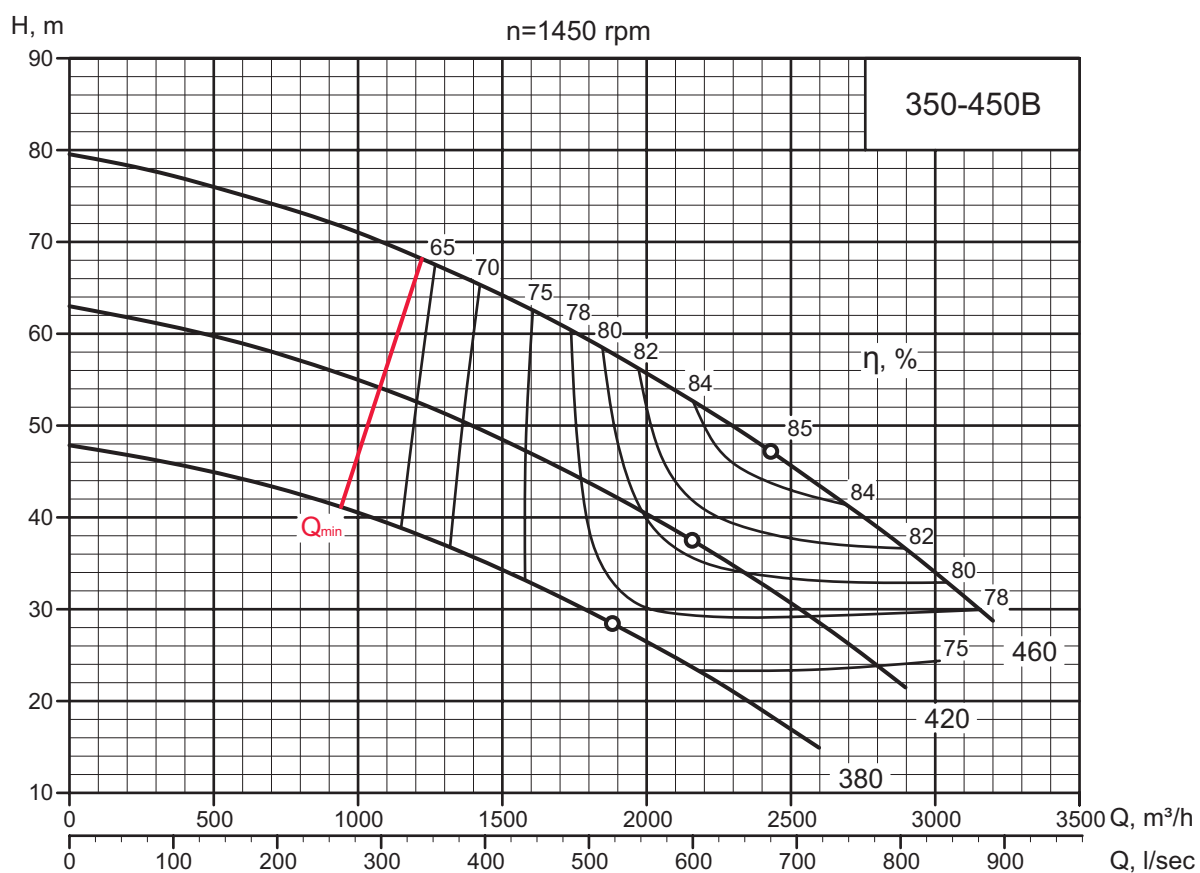
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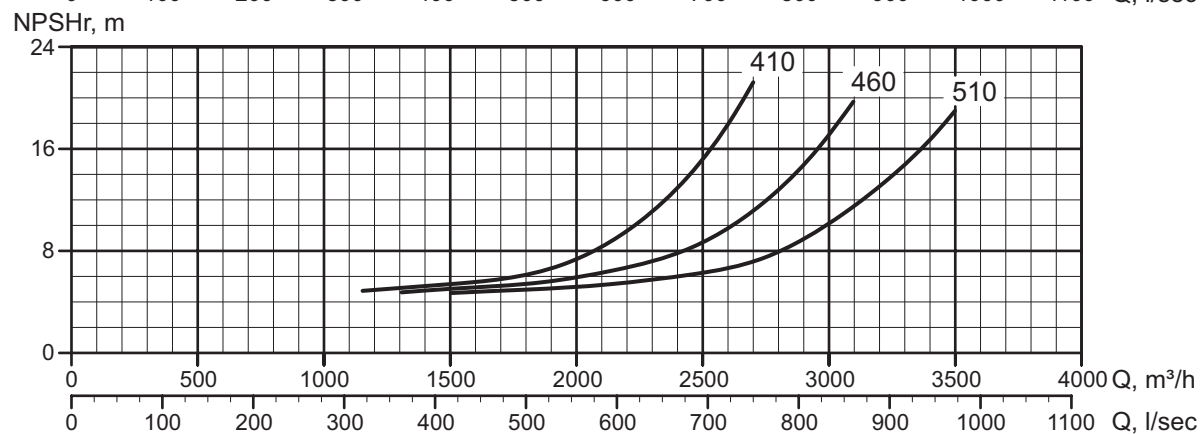
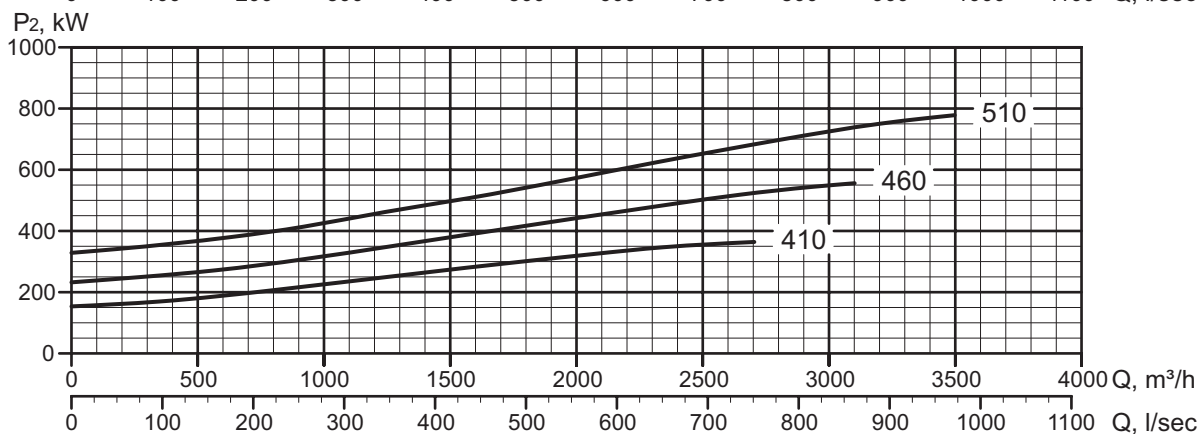
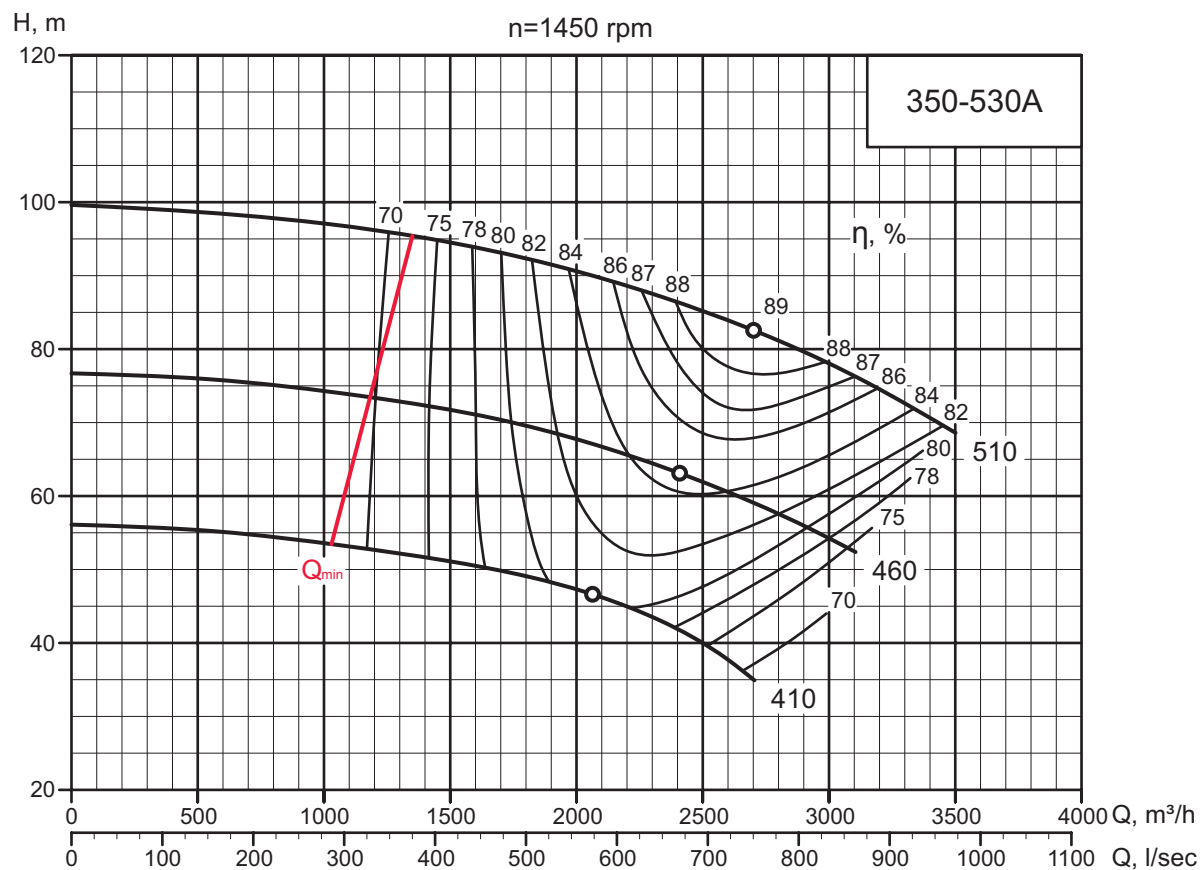
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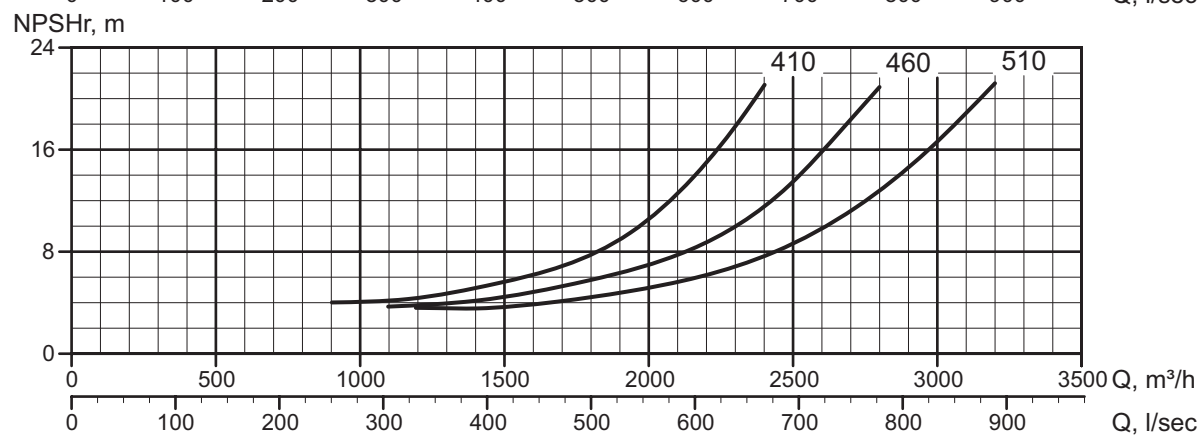
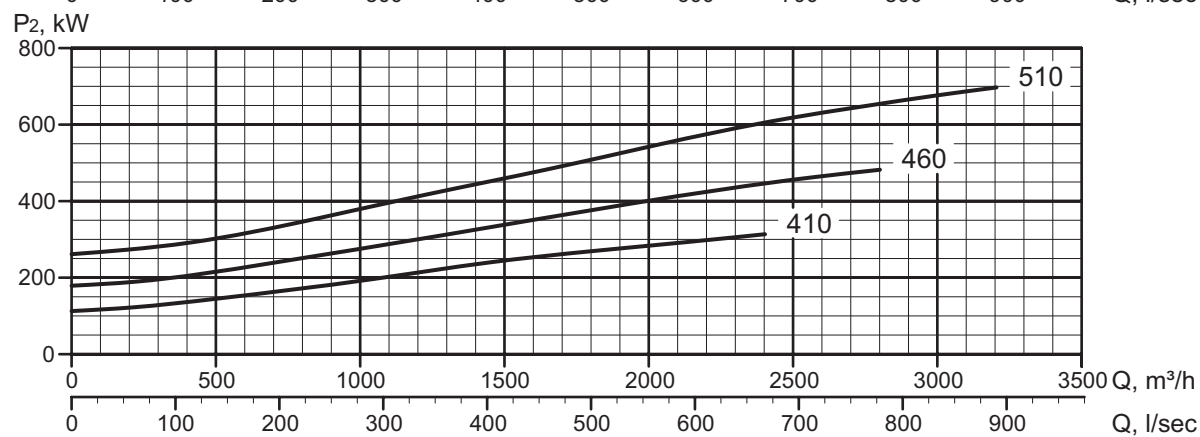
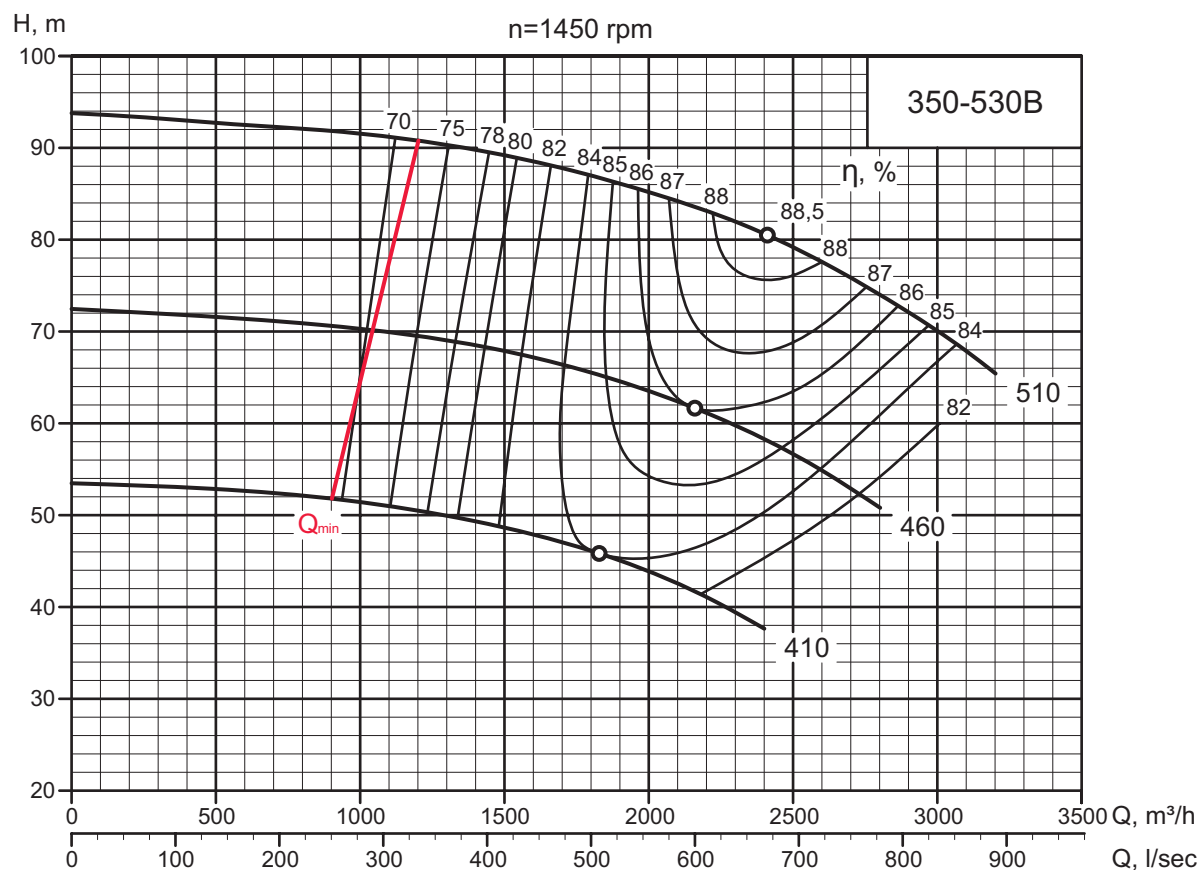
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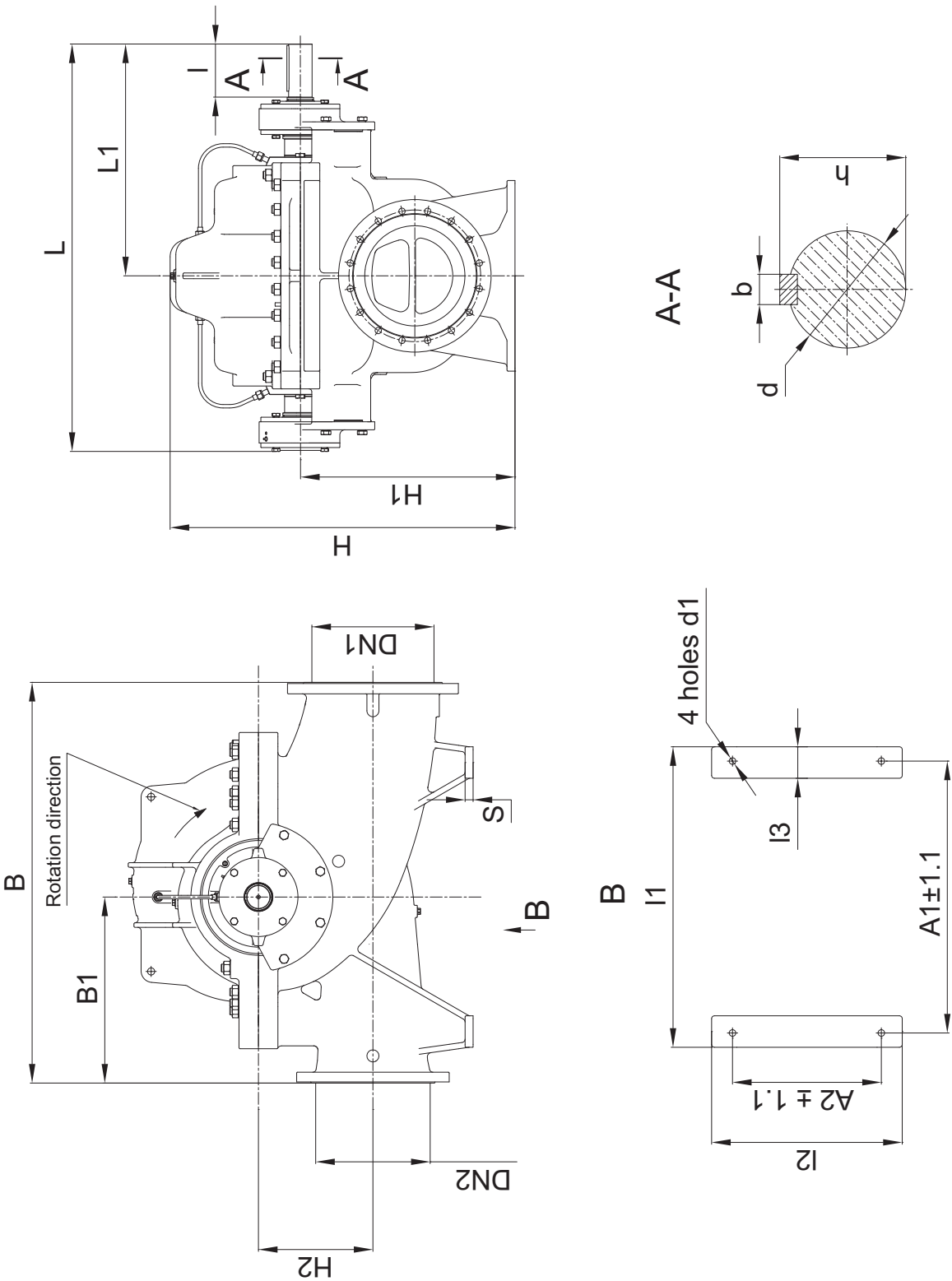
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Pumps Overall Dimensions

PUMPS WITH CAPACITY UP TO 3,500 m³/h



The standard pumps rotation direction is clockwise ("right") when viewed from the shaft side.
The pumps can also be manufactured with counterclockwise rotation. The required direction of rotation must be indicated when ordering.

OVERALL DIMENSIONS

PUMPS WITH CAPACITY UP TO 3,500 m³/h*

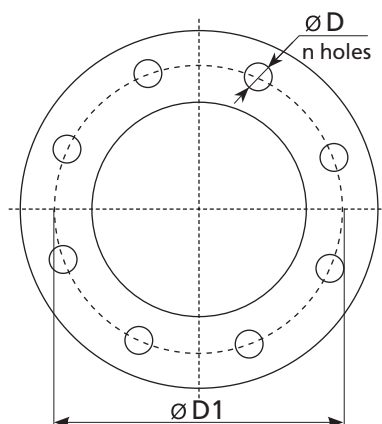
Pump	Dimensions, mm														Flanges**				Pump weight, kg				
	L	L ₁	I	I ₁	I ₂	I ₃	B	B ₁	b	H	H ₁	H ₂	h	d	d ₁	A ₁	A ₂	s		Suction		Discharge	
																				DN1, mm	PN, bar	DN2, mm	PN, bar
D125-250	915	515	110	520	444	75	740	370	12	630	400	200	45	42	18	450	340	22	200	125	16	25**	
D125-320					430	80	770	450		20								150					
D125-400					400		800	400	20														
D125-480					444	820	700	660	20														
D150-290	1,040	590	630	770	535	900	450	705	400	560	430	22	250	200	150	16	25**	300	300	350	300	350	
D150-380																							530
D150-450					535	900	450	875	520	260	560	630		350	250				250				800
D150-560					564	1,000	500	926	560	300	400	520		400	1,230								
D200-340	1,155	655	140	800	535	110	1,100	500	18	970	600	350	64	60	23	700	520	28	300	300	300	1,620	
D200-450					532		1,200	550		1050													350
D200-500					532	1,000	500	950	300	76,5	72	400	785										
D200-560					656	1,150	550	1,005	300	76,5	72	400	1,160										
D250-400	1,290	730	160	800	532	110	1,200	500	20	1,085	630	350	64	60	23	700	520	28	300	300	300	1,345	
D250-510					532		1,100	500		990													300
D250-630					656	1,200	550	1,085	300	76,5	72	400	1,160										
D300-340					480	1,100	500	18	990	300	64	60	800										
D300-460	1,425	810	170	1050	656	120	1,200	550	22	1,070	670	350	76,5	72	23	950	520	28	400	300	300	1,230	
D300-580					656		1,200	550		1,070													670
D300-720					666	1,400	650	1,270	750	400	85	80	1,830										
D350-390					656	1,200	550	20	1,080	670	350	76,5	72	1,120									
D350-450	1,425	810	170	1050	600	110	1,400	650	22	1,215	750	400	85	80	23	950	520	28	400	300	300	1,670	
D350-530					666		1,200	550		1,080													670

* Dimensions of pumps with capacity over 3,500 m³/h are available on request.

** Flange sizes are given for PN16. Flanges material: PN16 - grey cast iron; PN25 - nodular cast iron, steel and duplex steel; PN10 - is available depending on the impeller trimming.

Flanges Dimensions

**PUMPS WITH CAPACITY
UP TO 3,500 m³/h**



Flanges		DIN2501, ISO7005/2			BS4504			GOST 33259-2015		
		PN10	PN16	PN25	Table 10/11	Table 16/11	Table 25/11	Pset 1.0	Pset 1.6	Pset 2.5
DN125	D	19	19	28	19	19	28	18	18	26
	D1	210	210	220	210	210	220	210	210	220
	n	8	8	8	8	8	8	8	8	8
DN150	D	23	23	28	23	23	28	22	22	26
	D1	240	240	250	240	240	250	240	240	250
	n	8	8	8	8	8	8	8	8	8
DN200	D	23	23	28	23	23	28	22	22	26
	D1	295	295	310	295	295	310	295	295	310
	n	8	12	12	8	12	12	8	12	12
DN250	D	23	28	31	23	28	31	22	26	30
	D1	350	355	370	350	355	370	350	335	370
	n	12	12	12	12	12	12	12	12	12
DN300	D	23	28	31	23	28	31	22	26	30
	D1	400	410	430	400	410	430	400	410	430
	n	12	12	16	12	12	16	12	12	16
DN350	D	23	28	34	23	28	34	22	26	33
	D1	460	470	490	460	470	490	460	470	490
	n	16	16	16	16	16	16	16	16	16
DN400	D	28	31	37	28	31	37	26	30	33
	D1	515	525	550	515	525	550	515	525	550
	n	16	16	16	16	16	16	16	16	16
DN450	D	28	31	37	28	31	37	26	30	33
	D1	565	585	600	565	585	600	565	585	600
	n	20	20	20	20	20	20	20	20	20

REQUEST FOR QUOTATION (ORDER FORM)**HMS DeLium Pumps**

Please forward the completed order form to HMS Group Moscow. International Sales Department:

7, Chayanova Str., Moscow, 125047, Russia. Tel: + 7 (495) 730 6601, ext. 2112. Fax: +7 (495) 730 6602

E-mail: export@hms.ru www.hms.biz

Nº	Parameter	Units	Customer requirements
1	Functional		
1.1	Capacity	m ³ /h	
1.2	Head	m	
1.3	Maximum discharge pressure	bar	
1.4	NPSHR	m	
2	Pumped media		
2.1	Pumped liquid name and description		
2.2	Solids volume concentration	%	
2.3	Solids size (abrasive /nonabrasive)	mm	
2.4	Operational temperature	°C	
2.5	Cinematic viscosity at operation temperature	cSt	
2.6	Density at operation temperature	kg /m ³	
2.7	Absolute pressure of saturated steam	bar	
2.8	pH factor		
2.9	Explosion proof demand		
3	Materials of main components		
	Casing /Cover Impeller Shaft		
4	Shaft sealing		
4.1	Single / double gland sealing		
4.2	Single/double mechanical sealing		
5	Site installation conditions		
5.1	Cooling / heating systems	yes /no	
6	Drive		
6.1	Voltage, number of phases		
6.2	Frequency		
6.3	Regulation (Frequency inverter / hydraulic coupling)		
7	Appendixes: (installation scheme, other requirements)		

Name _____ Position _____

Company _____

Address _____

Phone _____ E-mail _____



HMS Group – a leading international holding, integrating major machine building and engineering companies. Scope of HMS Group's activities covers oil & gas industry, nuclear and thermal energy, water supply & sewage disposal, and other industries.

- Company foundation: 1993
- Production facilities in Russia, CIS, and Germany
- Own engineering institutes and R&D centers
- 14,500 professional employees
- Considerable experience in integrated projects for various industries
- Branch and representative offices in Europe, CIS, Middle East and North Africa

HMS Group offers contemporary, reliable and energy-efficient solutions based on pumps and compressors for various industries: from equipment engineering, development and production to complex procurement and integrated turn-key projects.

ENGINEERING

Modern R&D base with years of experience is represented by the own engineering centers with centralized control, located in Russia and CIS.

The up-to-date 3D-modeling and CAD methods are applied for development new and modernization of existing equipment to ensure high efficiency and performance.

HMS Group engineers cooperate closely with clients' technical divisions, participating in equipment specifications development and adapting new technical solutions to clients' requirements.

MANUFACTURING

All critically important units and components are produced at the HMS Group plants, equipped with modern CNC machinery from the leading manufacturers.

The casing parts and impellers of pumps and compressors are manufactured at the own foundries, equipped with new efficient molding lines and induction furnaces.

TESTING

HMS Group plants are equipped with unique equipment for mechanical, thermal and research tests of the pump and compressor units under real operation conditions.

The tests are conducted in accordance with international standards, or by special methods developed jointly with the customer. Automated measurement systems ensure high accuracy of test results.

SERVICE

The HMS Group customers are provided with a full range of related services for pump and compressor systems including installation & commissioning supervision, routine maintenance, repair and overhaul, spare parts supply, integrated retrofit, extended engineering and technical support.

STANDARDS & QUALITY

The design and materials of manufactured pumps and compressors meet the requirements of the main international standards ISO, API, DIN EN, AISI, ANSI, NEMA.

**HMS Group Moscow
International Sales Department**

Phone: + 7 (495) 730 6601

E-mail: export@hms.ru

www.grouphms.com

www.hms.biz



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