



Engineering Flow Solutions

VERTICAL IN-LINE OVERHUNG PUMPS

Kordis

TECHNICAL CATALOGUE



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KORDIS VERTICAL IN-LINE OVERHUNG PUMPS

GENERAL DESCRIPTION

The Kordis pumps series is designed for handling water as well as chemically active liquids and the other fluids similar by specific weight, viscosity, density and corrosion impact on the pump materials.

The pumps energy efficiency complies with EN 16480:2016 with Minimum Efficiency Index (MEI) > 0.7.

Design of the pumps and pumping units including their connecting dimensions meets the ISO 9905:1994 / EN 733 standard requirements.

The Kordis pump series is produced by one of the leading Russian pump manufacturing companies – HMS Livgidromash (a part of HMS Group).

APPLICATION

- Water supply
- Water treatment
- HVAC systems
- Sewage disposal
- Firefighting
- Desalination
- Steel & mining
- Power generation



Overhung bareshaft version



Overhung monoblock version close-coupled with electric motor

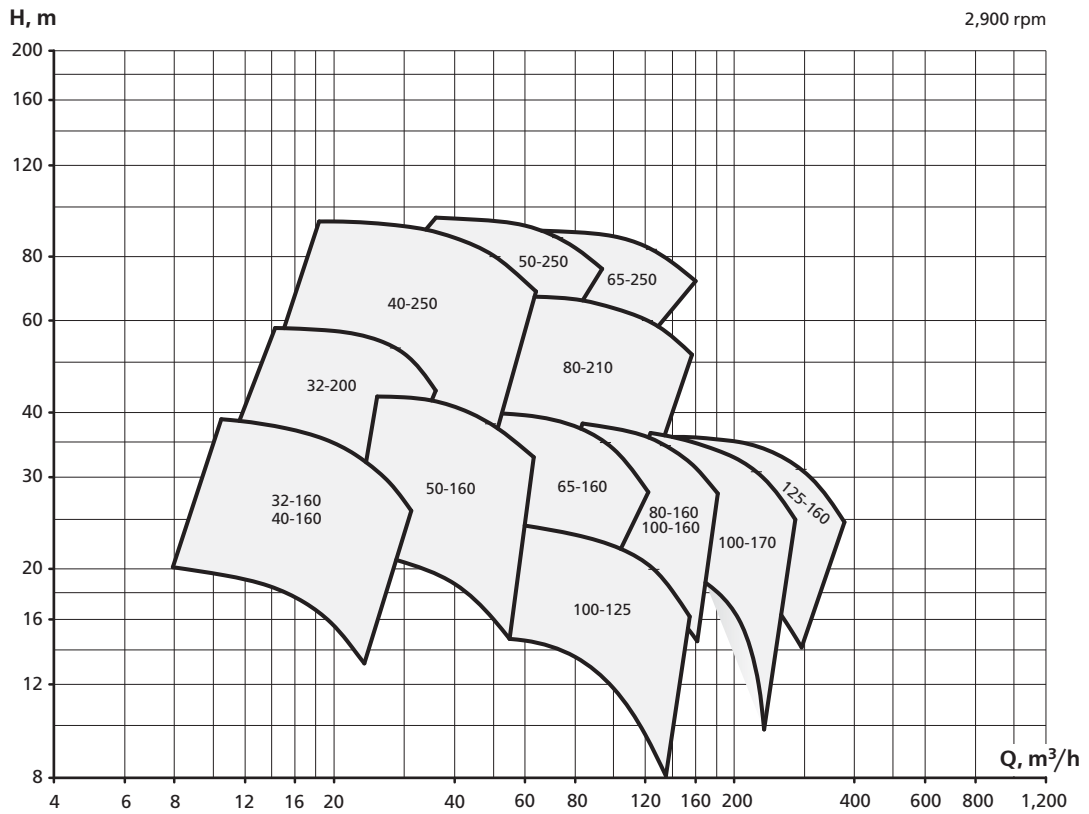
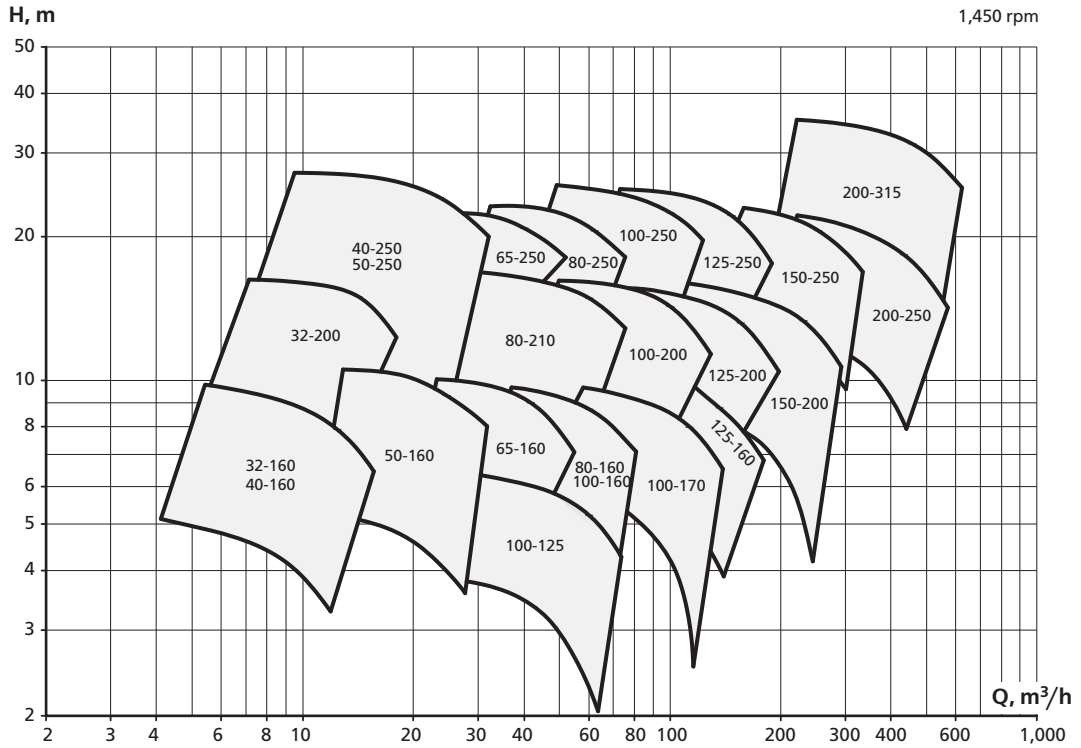


Overhung monoblock vertical version with in-line nozzles

TECHNICAL DATA

Capacity range	5 – 600 m ³ /h
Head range	2.5 – 100 m
Maximum discharge pressure	up to 16 bar
Electric motor power	up to 55 kW
Temperature of pumped liquid	+1 ... + 120 °C
Solids content by mass	up to 0.2 %

PERFORMANCE RANGE



SERIES DESIGNATION

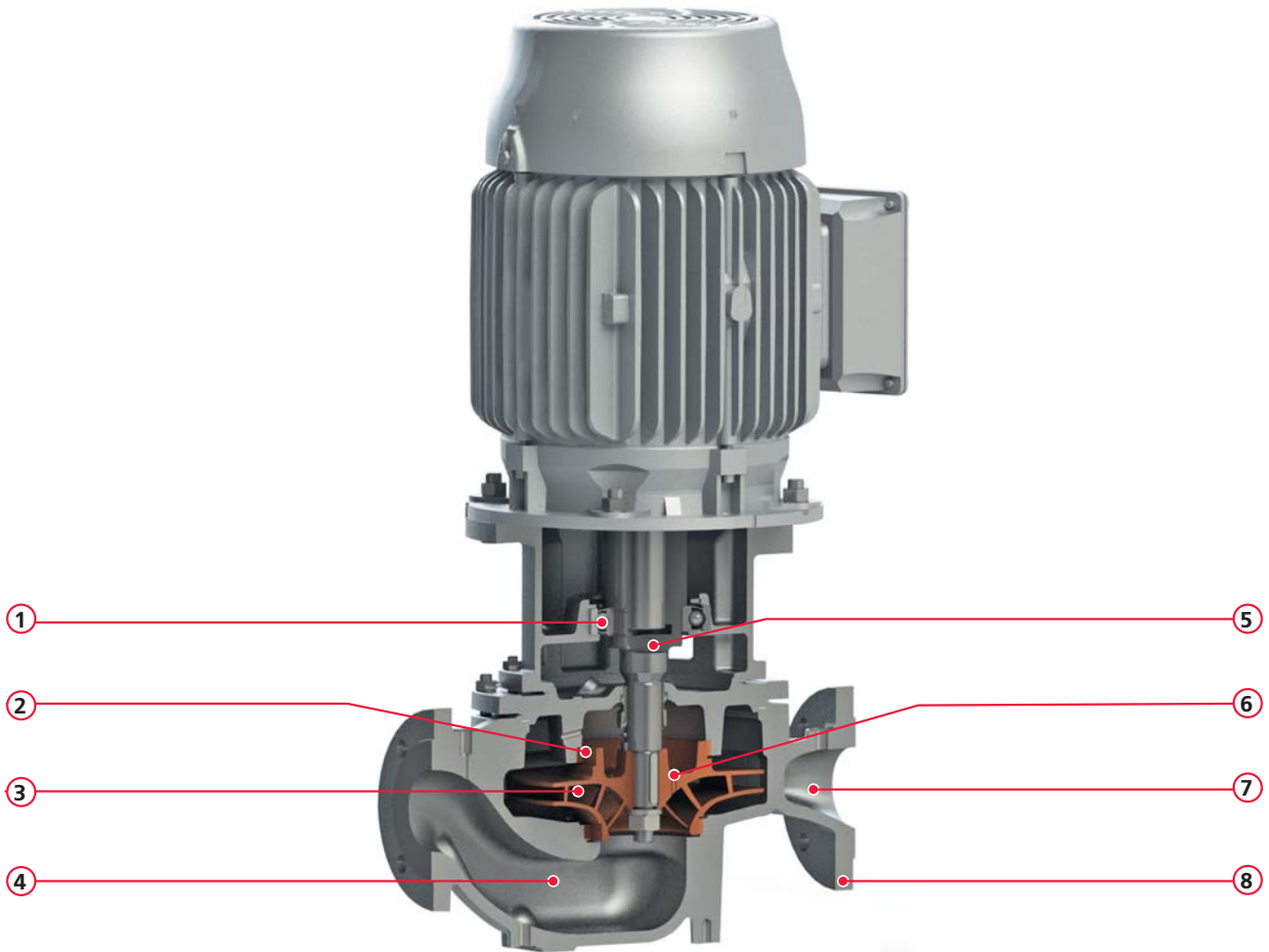
Designation example*:

KRL 050 - 050 - 160 / 145 - GG - R 01 - G / D 5.5 / 2
 1 2 3 4 5 6 7 8 9 10 11 12

Nº	Index	Description	
1	KRL	Vertical overhung monoblock pump with in-line arranged nozzles	
2	050	Rated suction nozzle diameter (DN), mm	
3	050	Rated discharge nozzle diameter (DN), mm	
4	160	Rated impeller diameter, mm	
5	145	Actual impeller diameter, mm	
6	GG	Material options: 1st index – Case; 2nd index – Impeller	
		G	Grey Cast Iron
		S	Nodular Cast Iron
		O	Carbon Steel
		B	Bronze
		X	Special Version
7	R	Shaft sealing	
		R	Single mechanical seal
8	01	Mechanical seal options	
		01	Water
		02	Sea water and formation (Cenomanian) water
		03	Chemically active non-toxic liquids
9	G	Bearing unit lubrication type	
		G	Grease lubrication
10	A	A	Bareshaft pump
		D	Pump with electric motor
		X	Special version
11	5.5	Electric motor power, kW	
12	2	Poles number in electric motor	

* Items 1 to 9 shall be indicated on the nameplate and in the technical documentation; items 10 to 12 shall be indicated only in the technical documentation.

DESIGN FEATURES

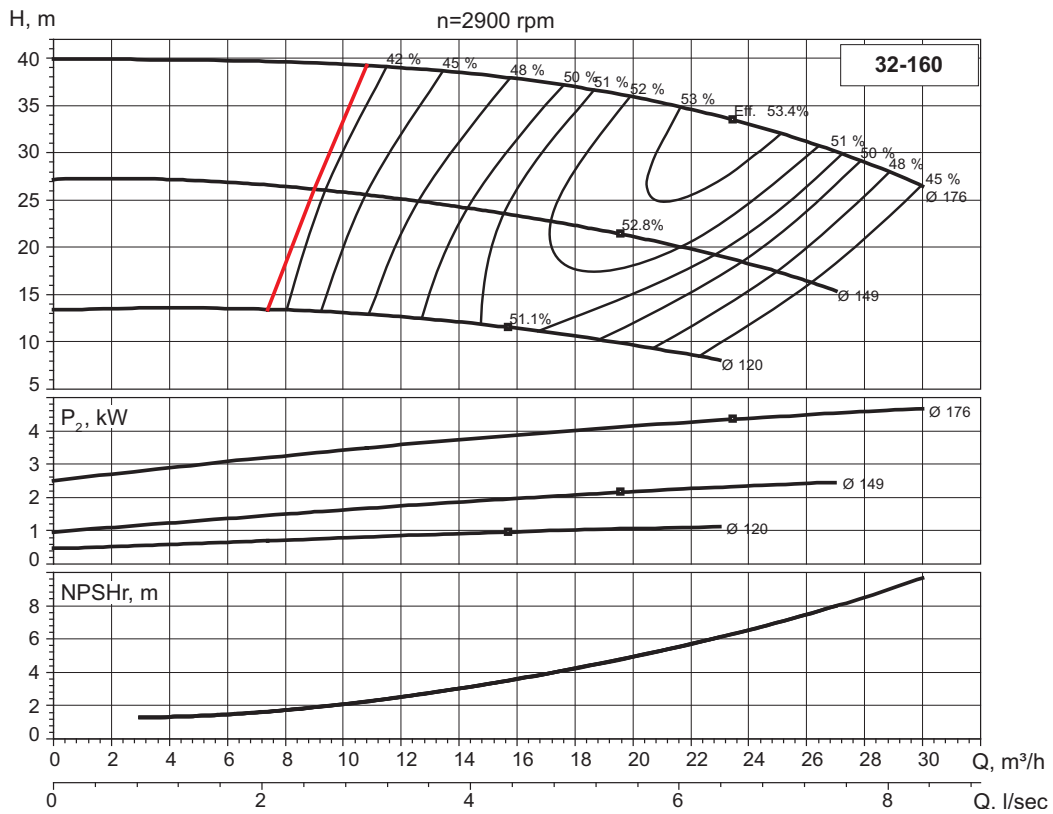
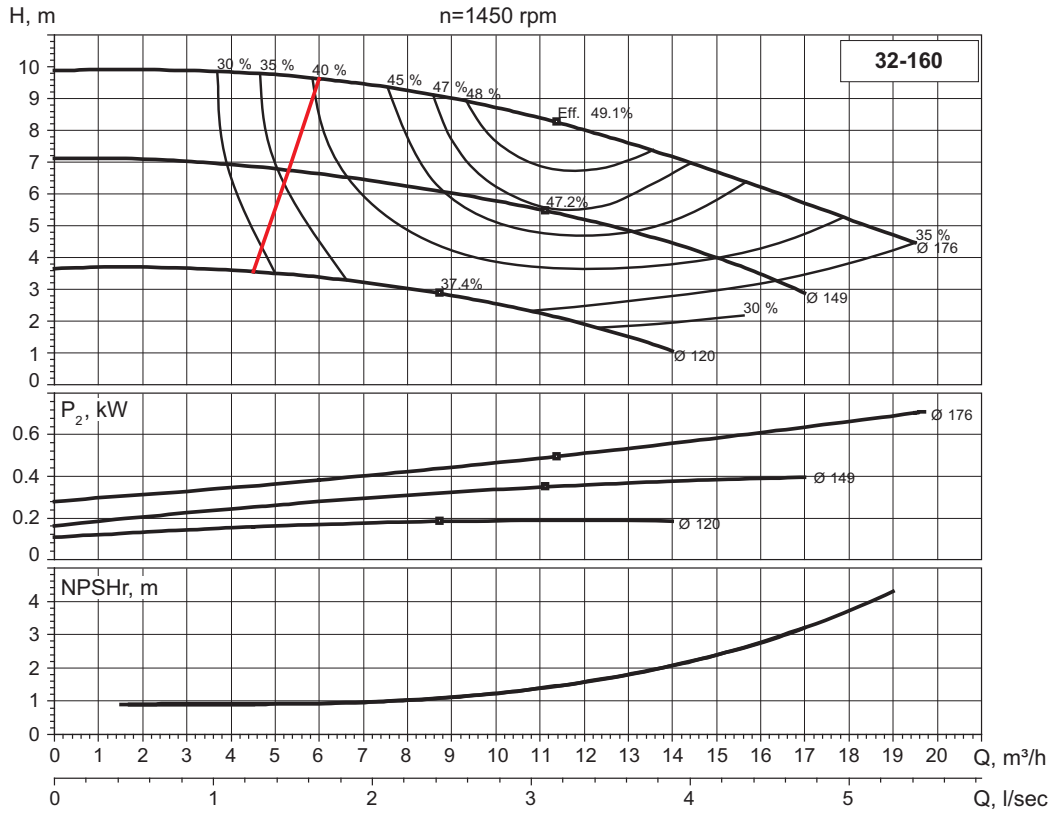


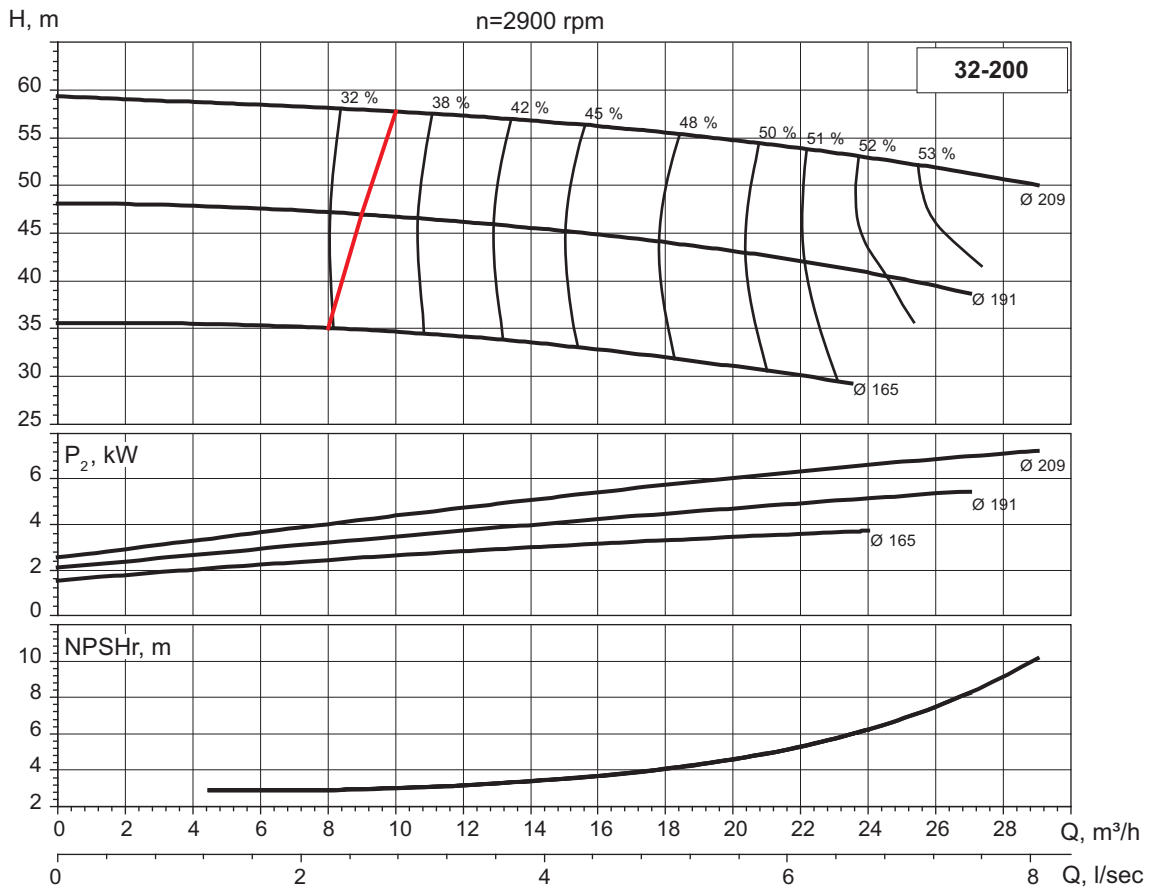
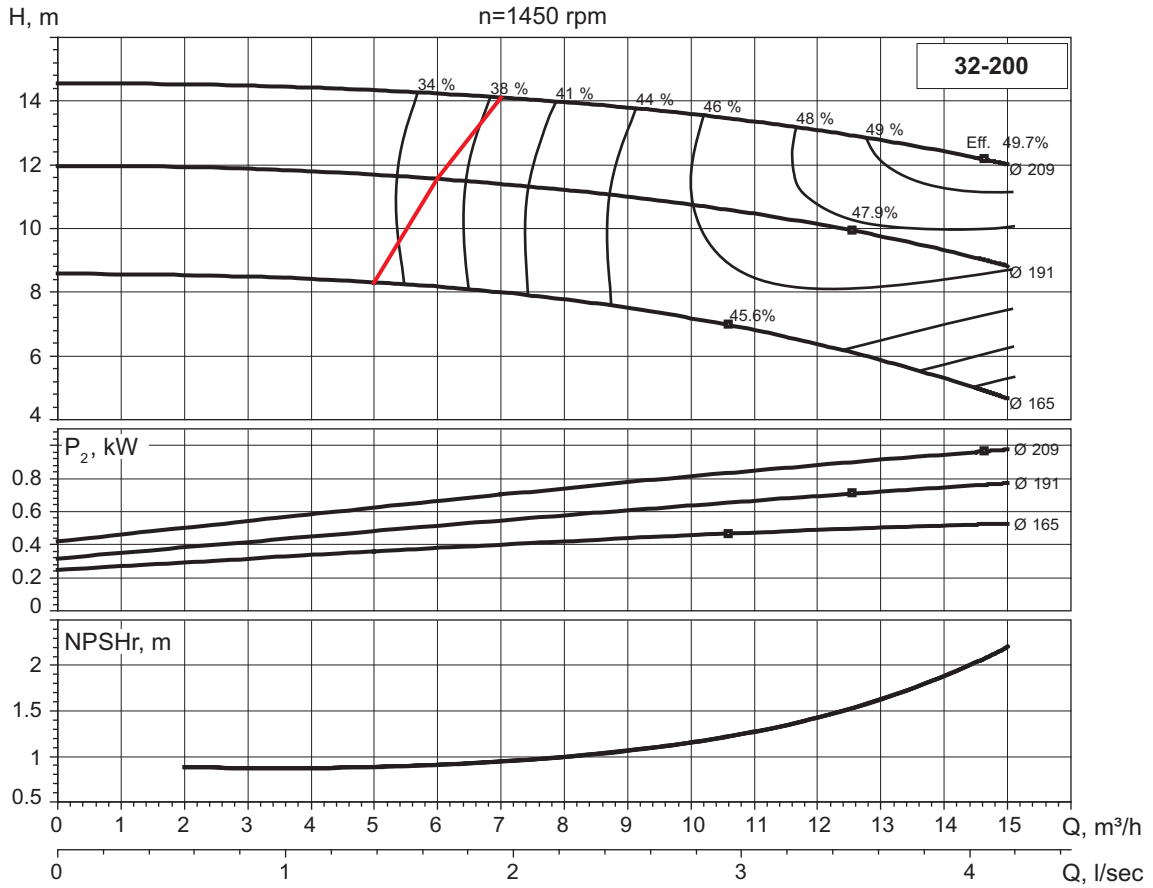
1. An additional bearing installed in the motor bracket eliminates the load from the pump to the motor bearing to increase their operational lifetime. This design feature also allows application of the standard electric motors.
2. The replaceable wearing rings made of the modern wear-resistant materials retain the pump efficiency for a long time and increase its operational lifetime.
3. The dynamically balanced closed-type impeller provides low vibration activity of the pump rotor, which saves energy and reduces operating costs.
4. The energy-efficient flow path is optimized using the newest CFD methods and computer-based simulation to provide the highest pump efficiency.
5. The pump has its own shaft, which allows application of the standard industrial electric motors and dismantling the motor without disassembling the pump.
6. The impeller is unloaded from the axial forces with special unloading holes on the rear wheel disc to reduce the load applied to bearings and increase their lifetime.
7. Suction and discharge nozzles are designed as in-line having the same dimensions.
8. The flanges are available in accordance with the ISO, DIN, ASME standards requirements. The nozzles and flanges design is rated for operating pressure up to 16 kgf / cm².

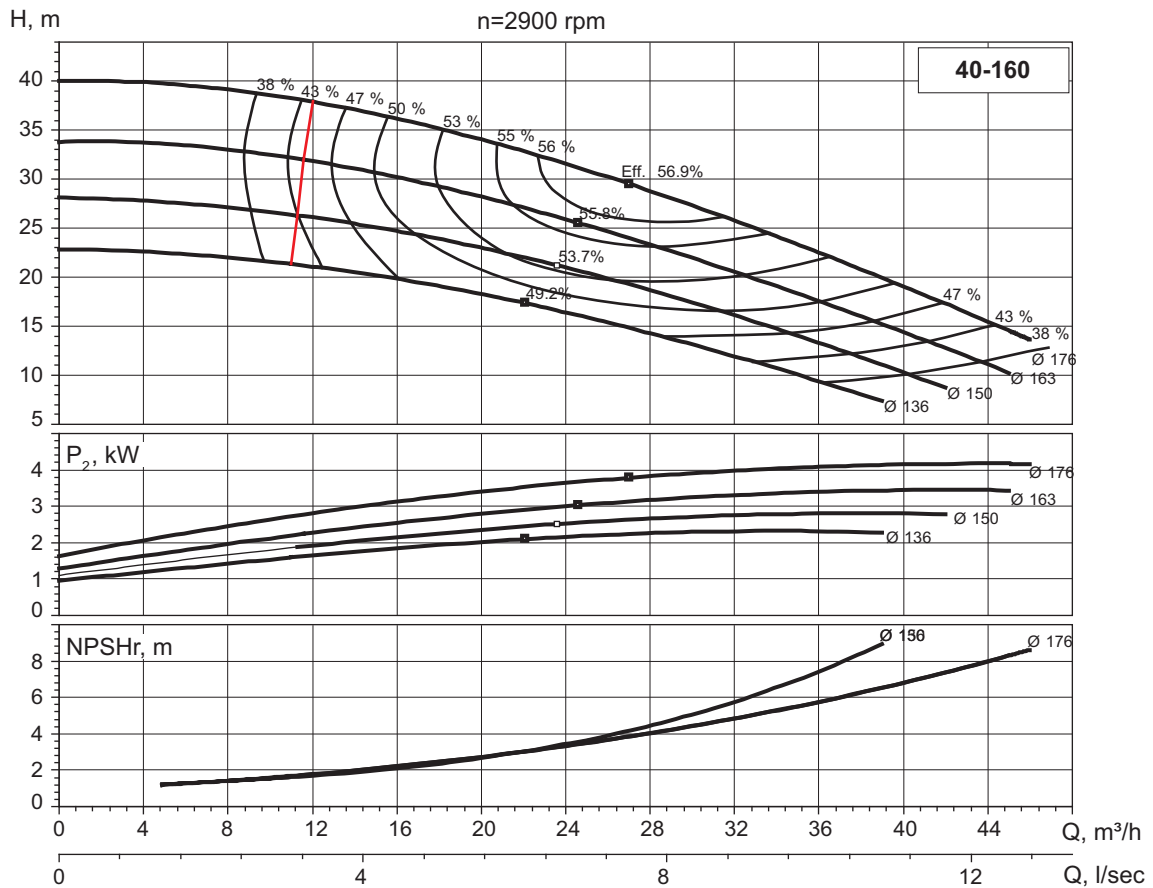
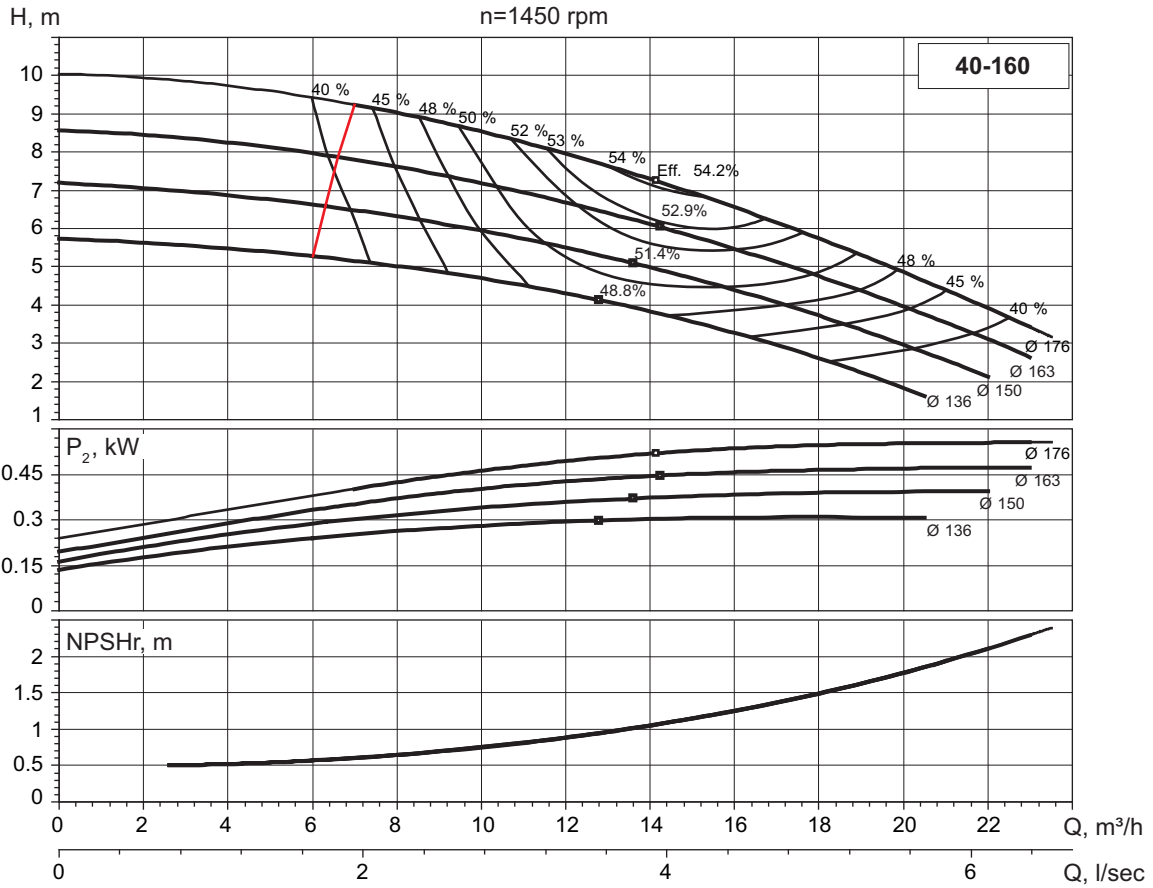
A wide range of available pump sizes and the possibility of an impeller trimming allows precise selection of a pump in exact accordance with the customer's hydraulic system requirements.

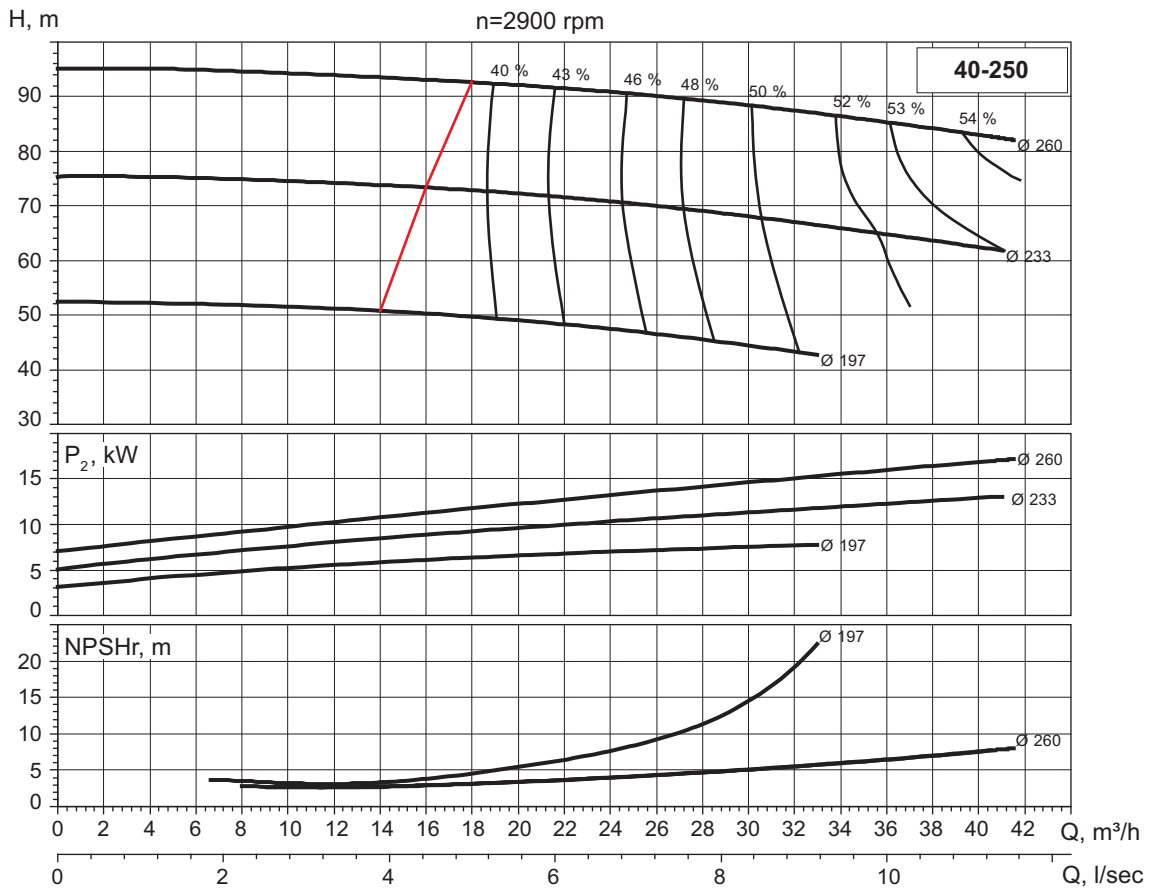
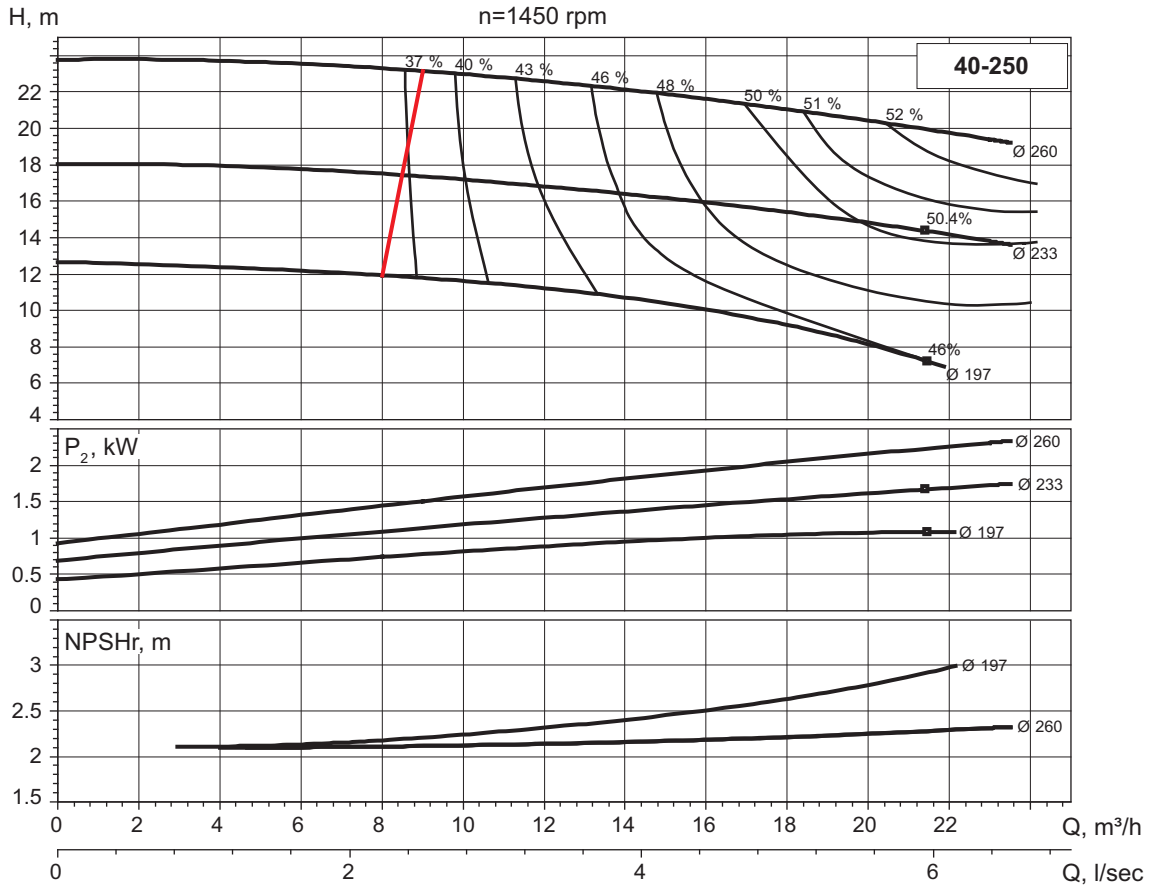
The pump can be supplied with HMS Control series panel connecting up to 4 pumps and providing manual, remote and wireless control of pumps including their soft-starting option.

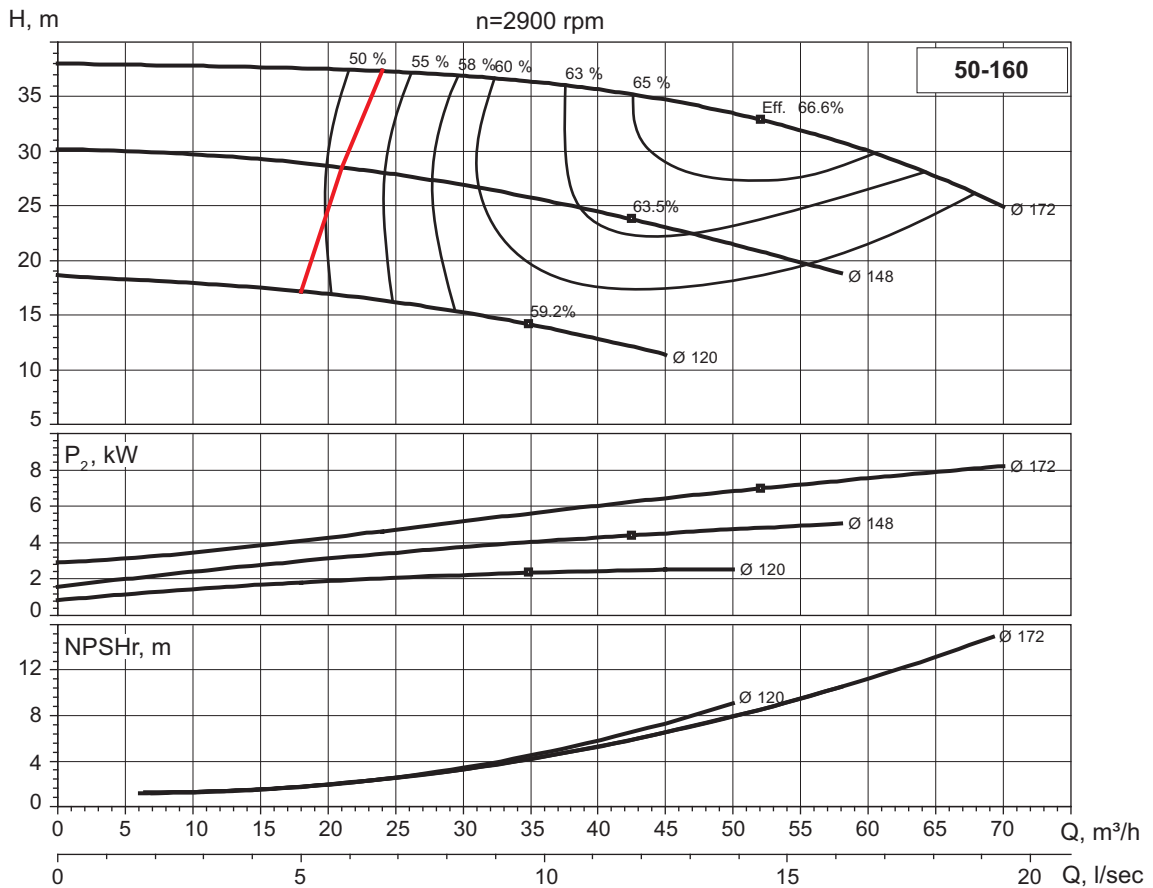
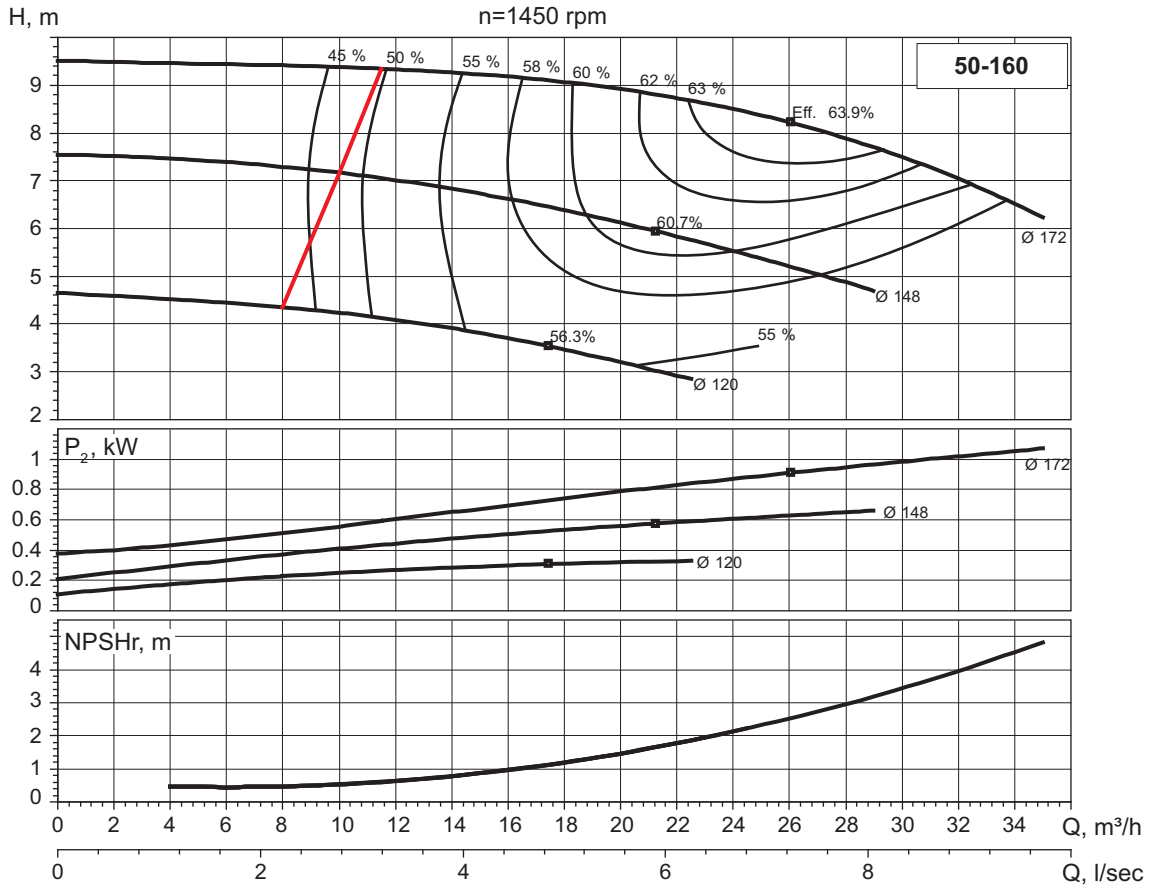
PERFORMANCE CURVES

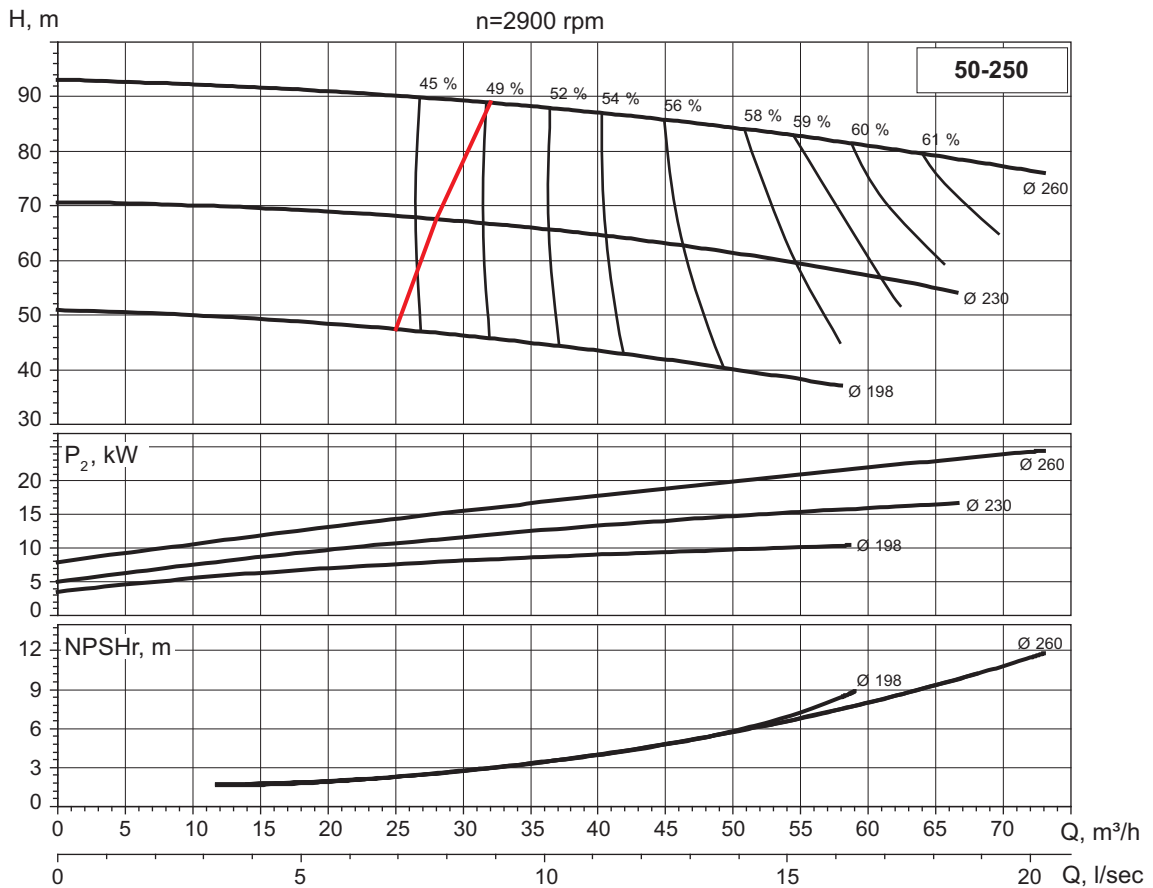
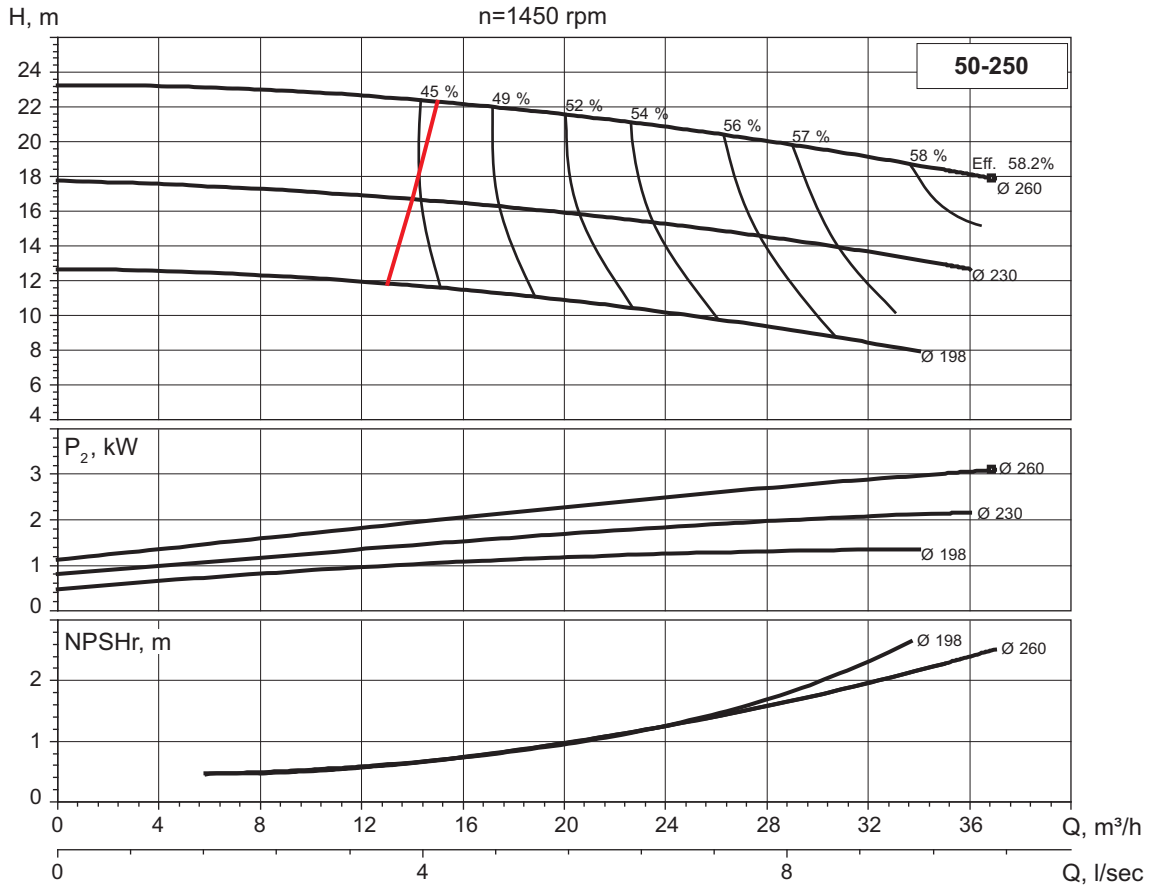


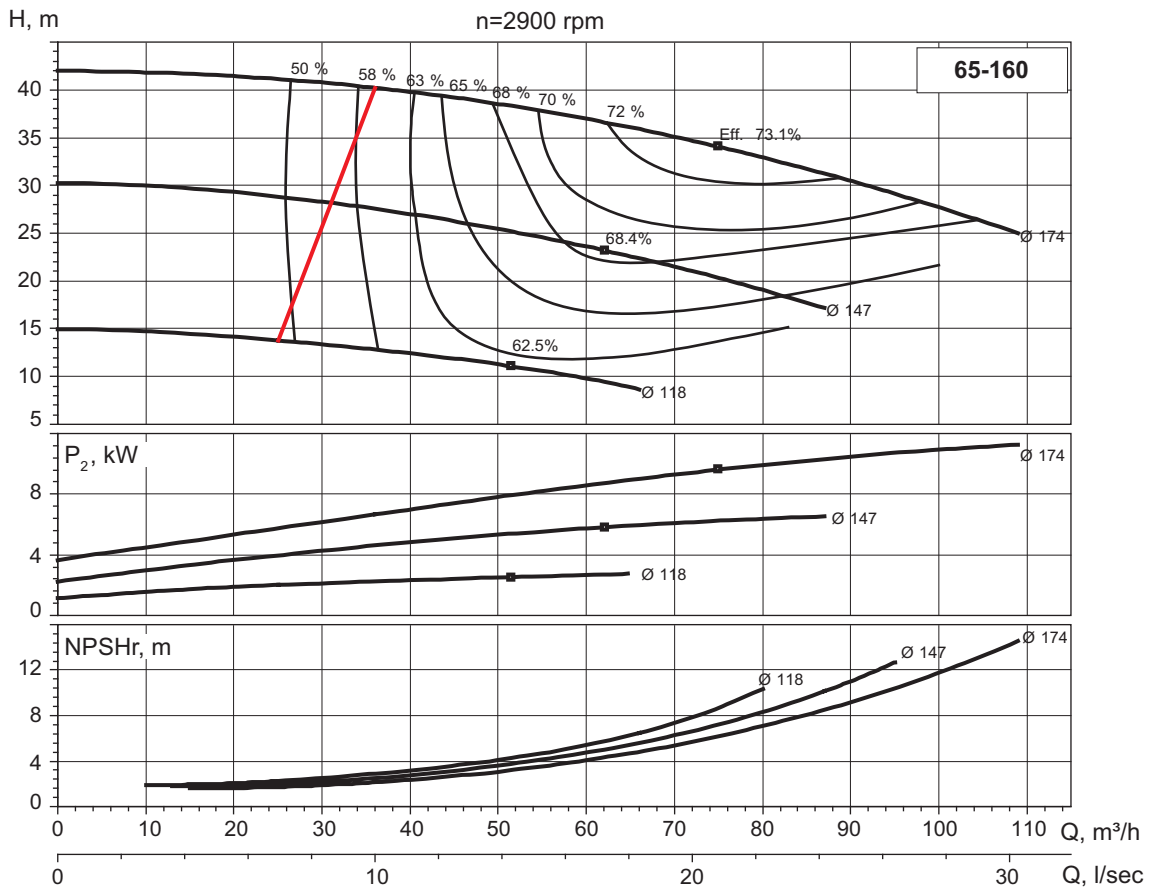
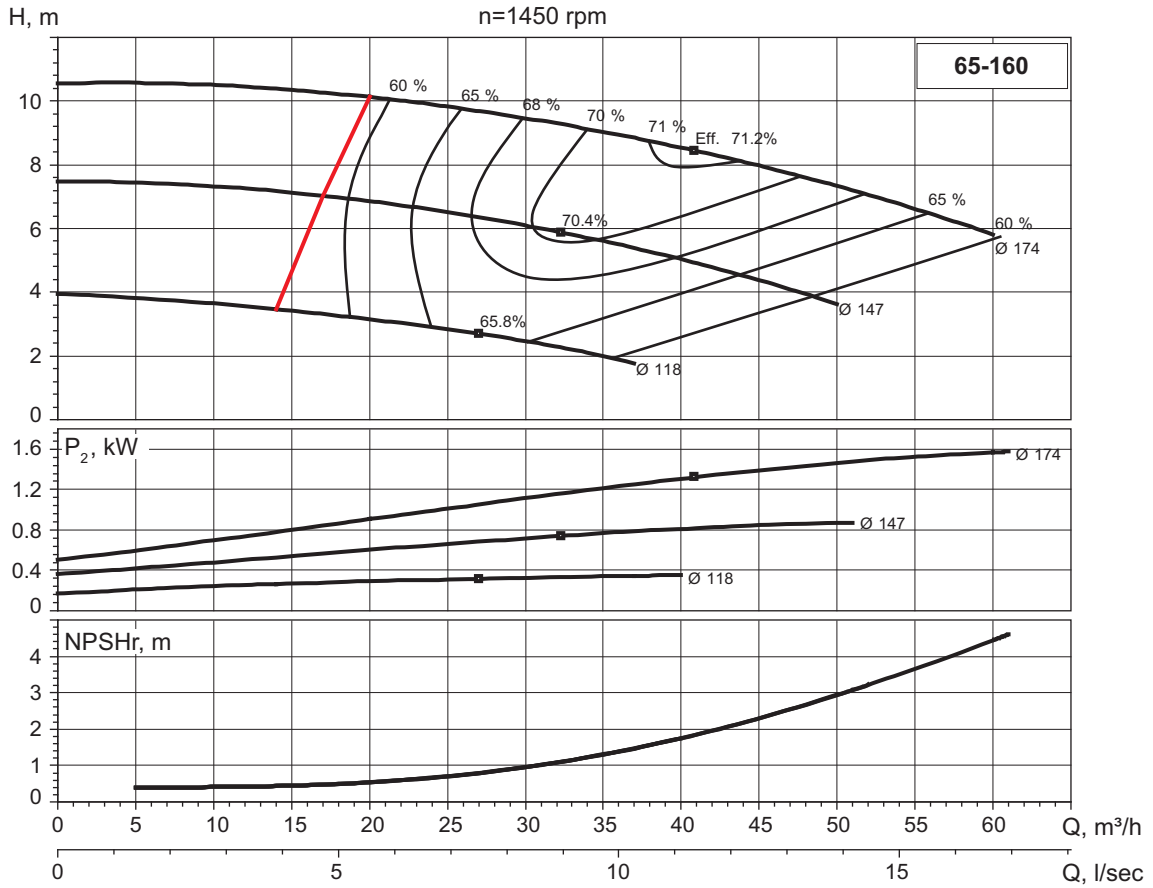


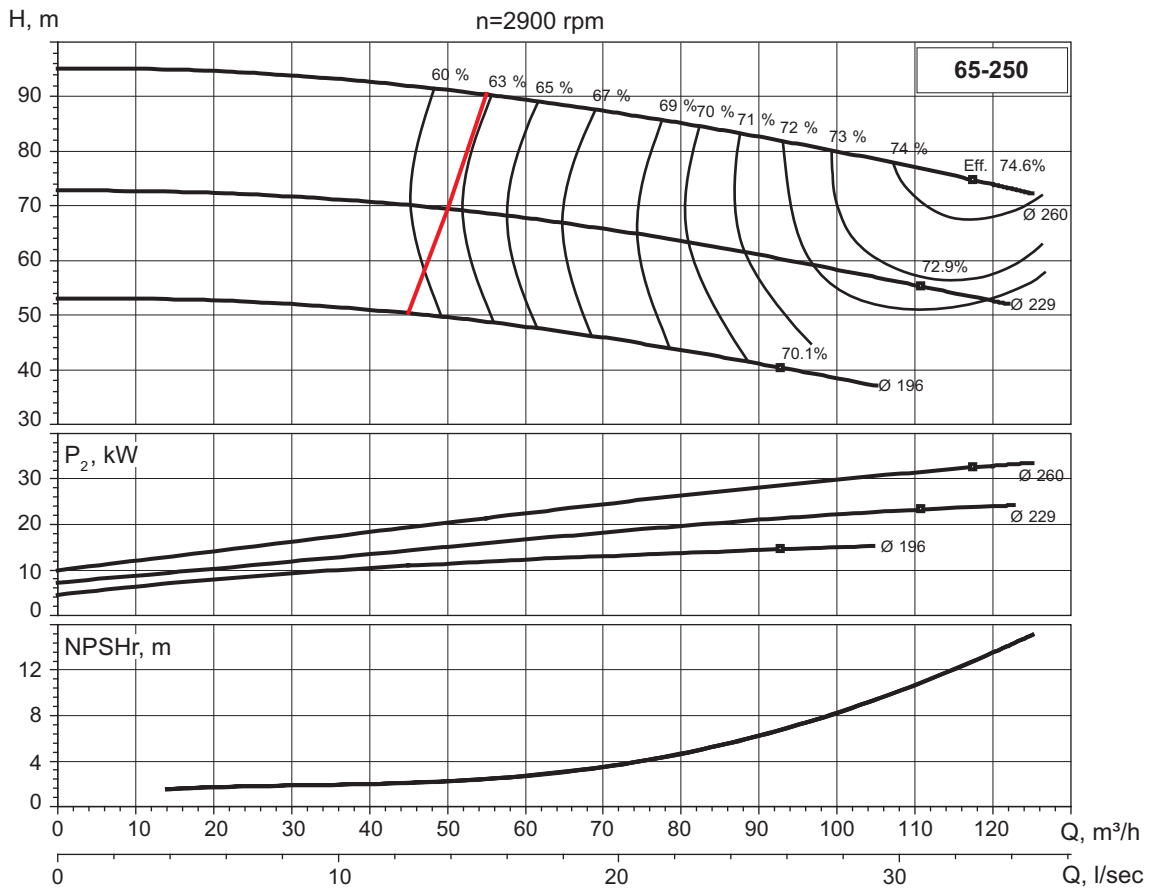
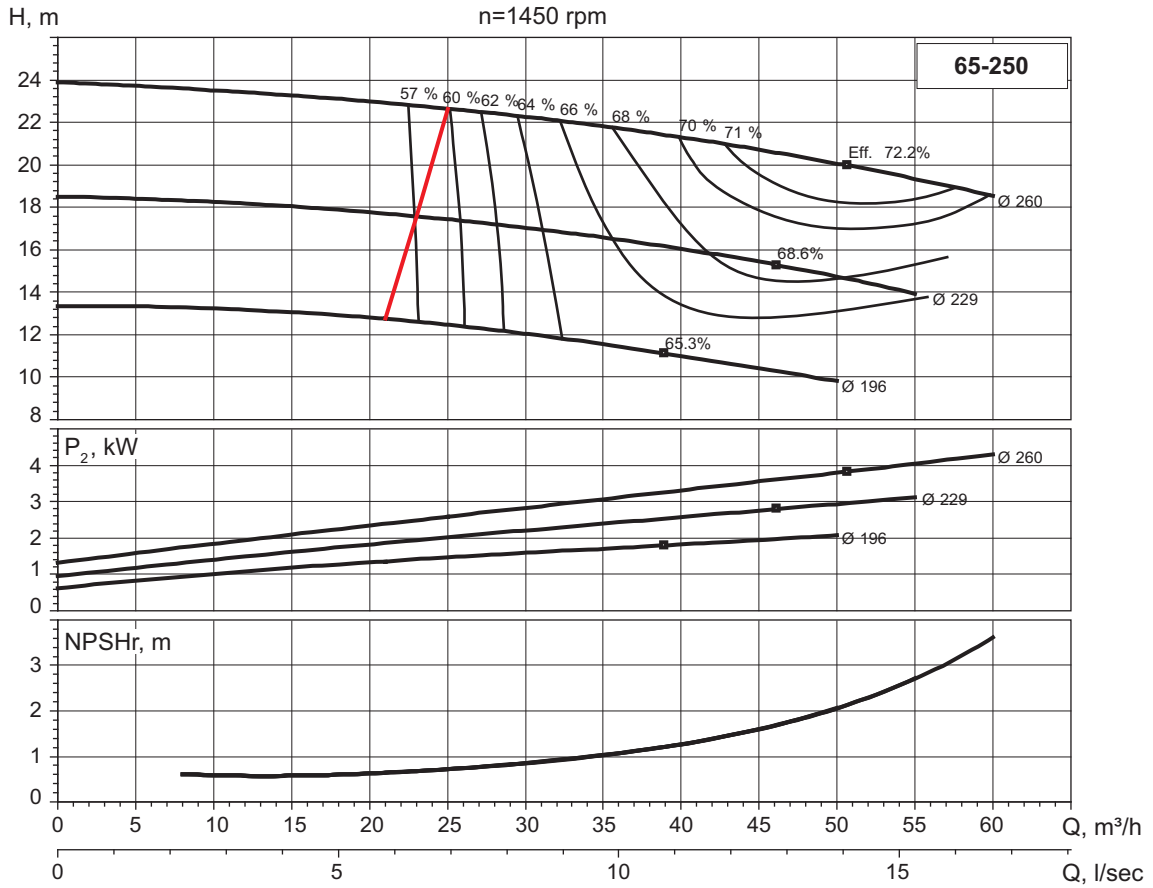


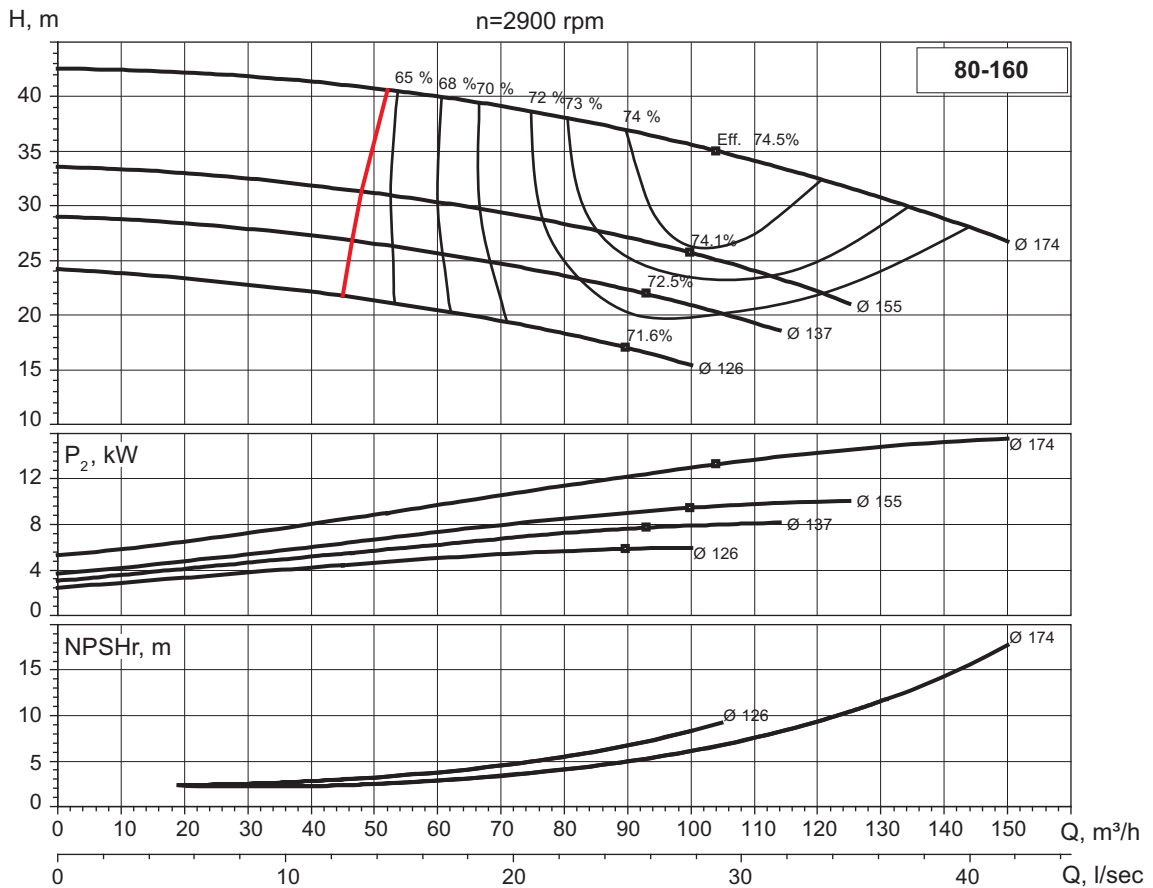
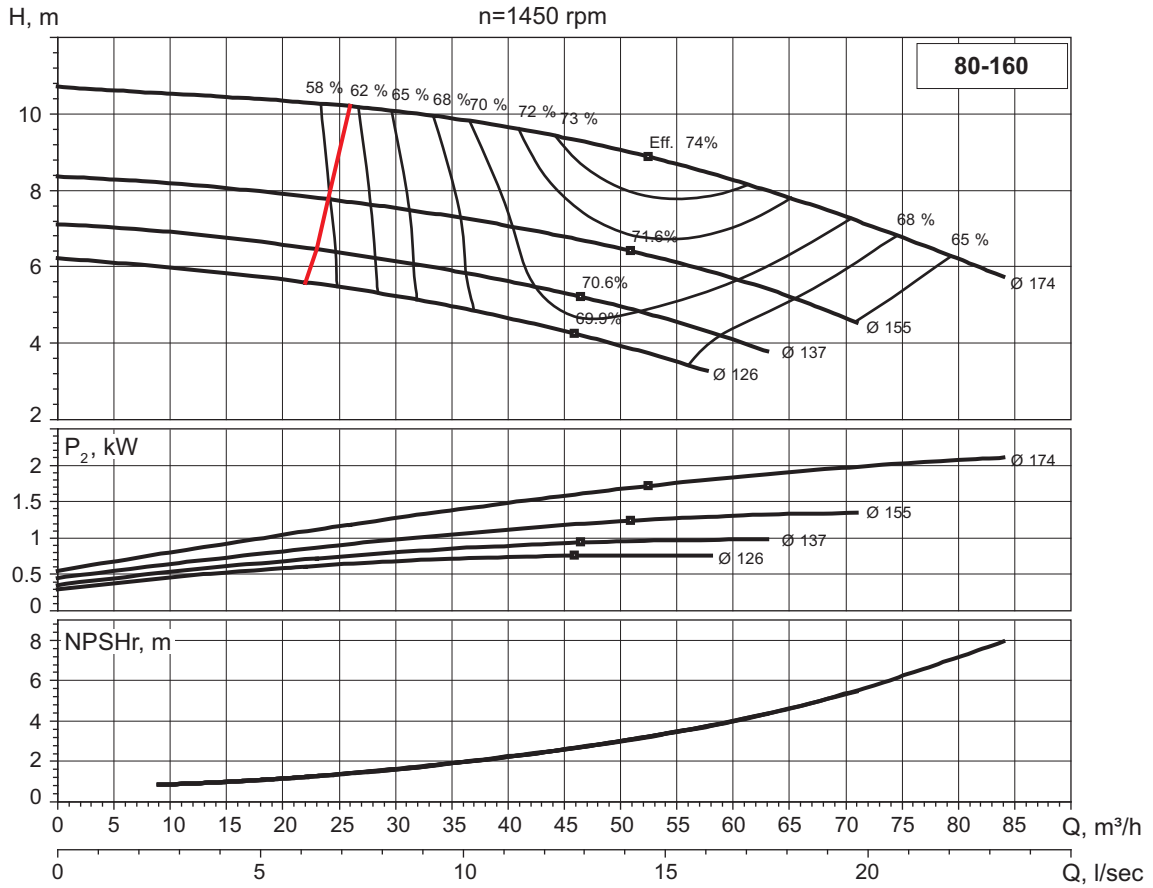


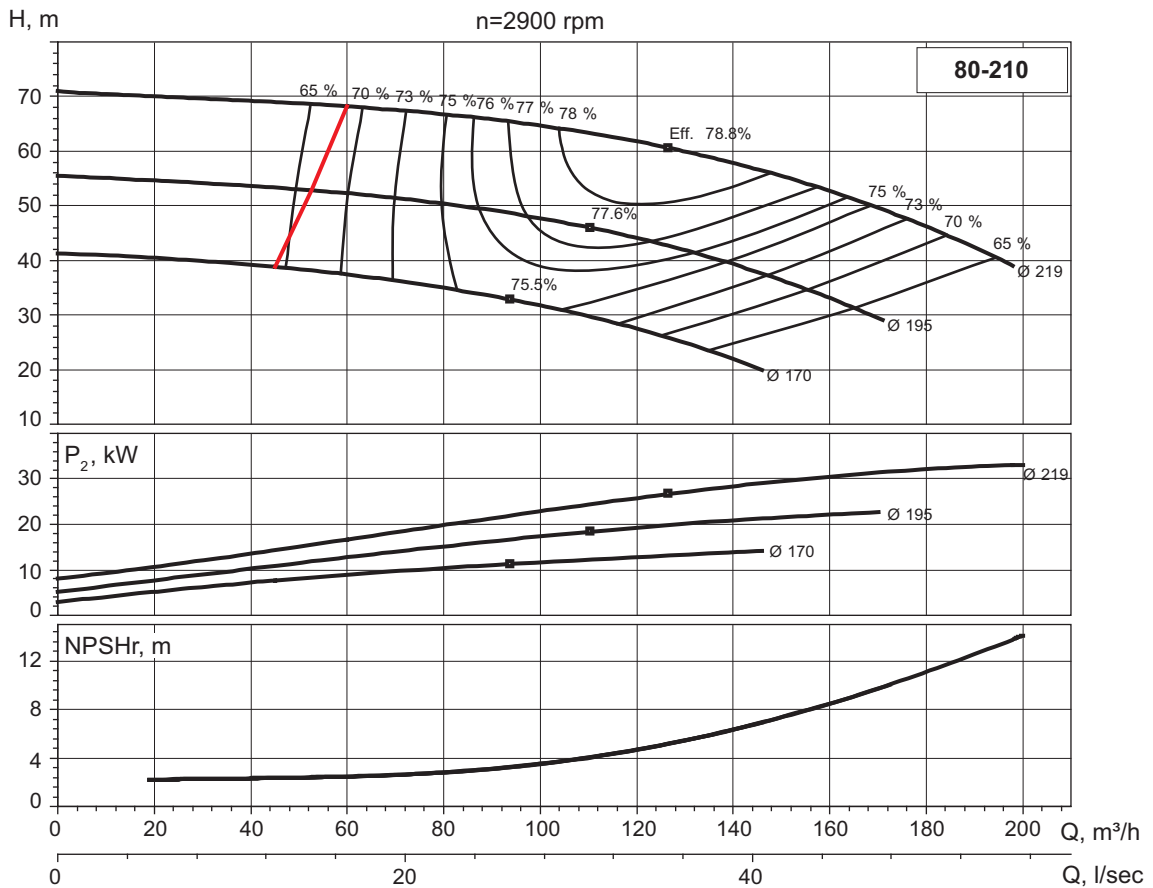
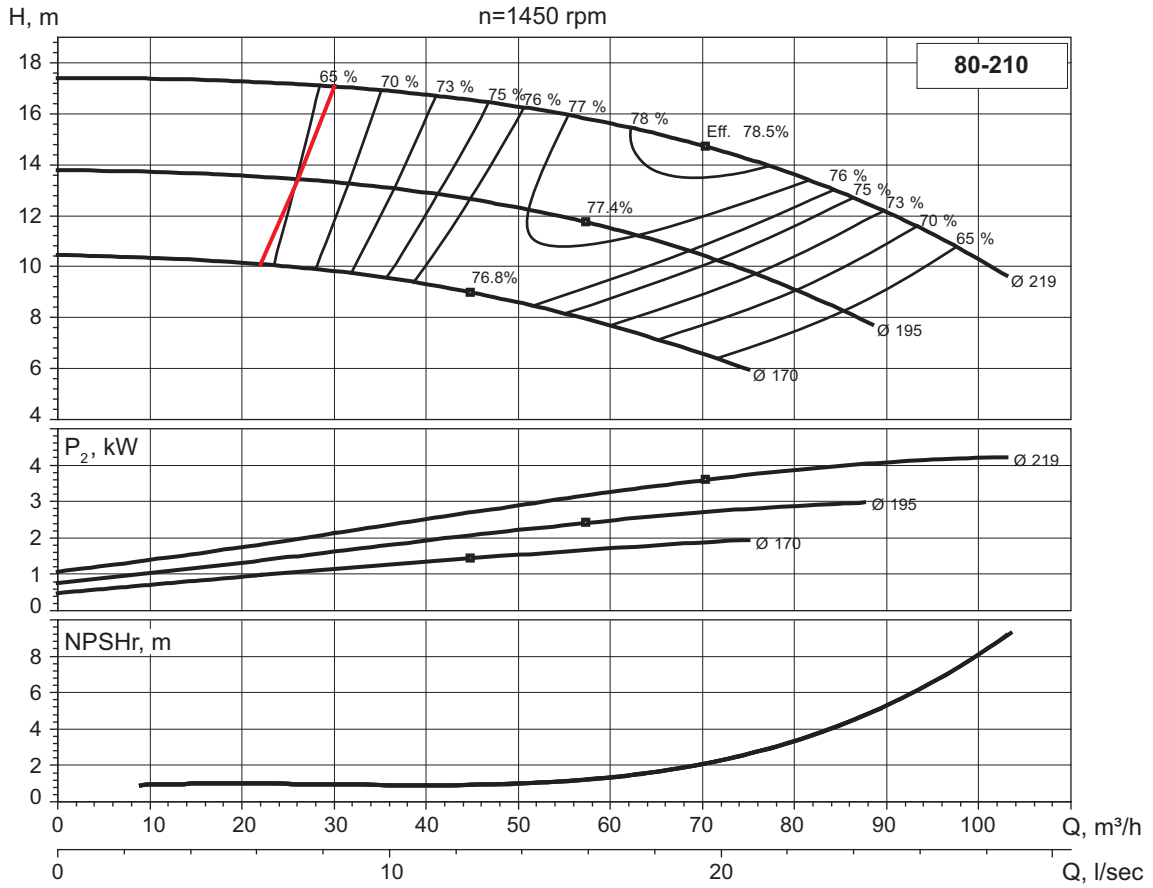


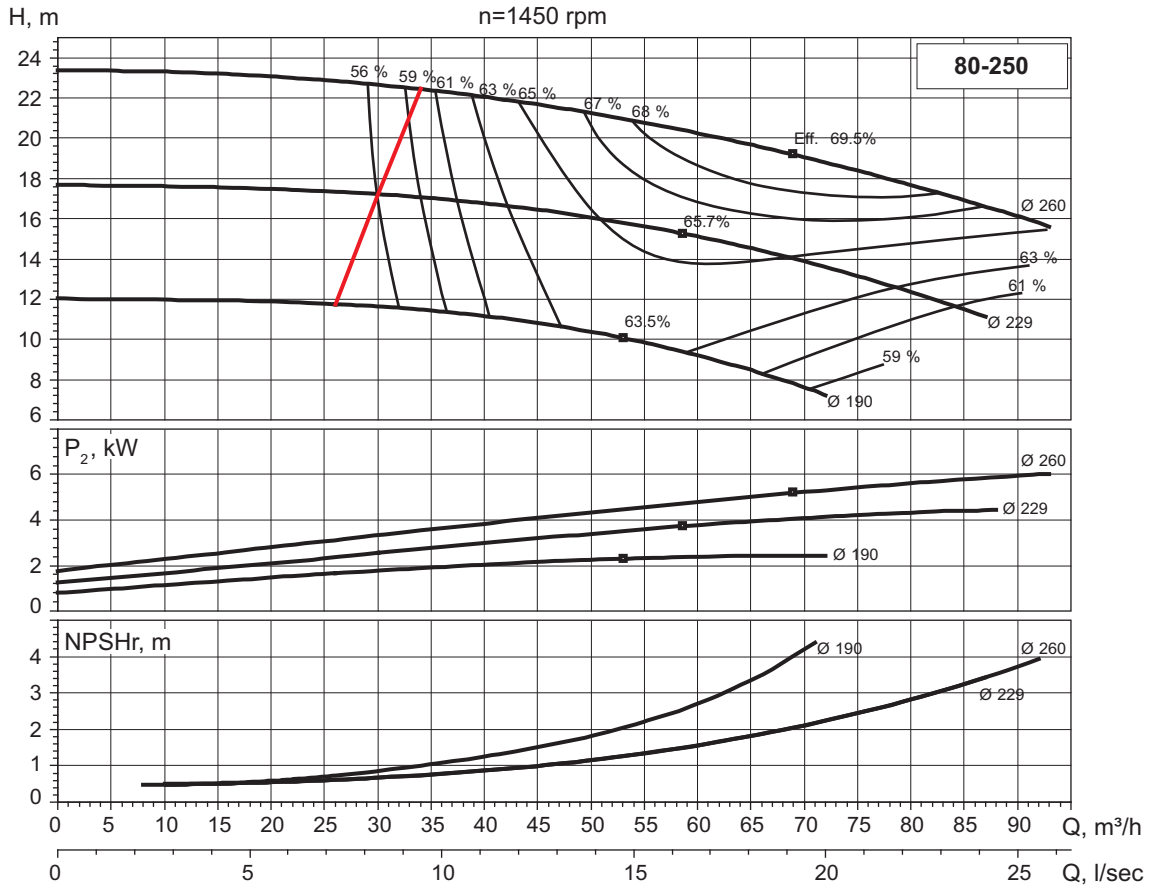


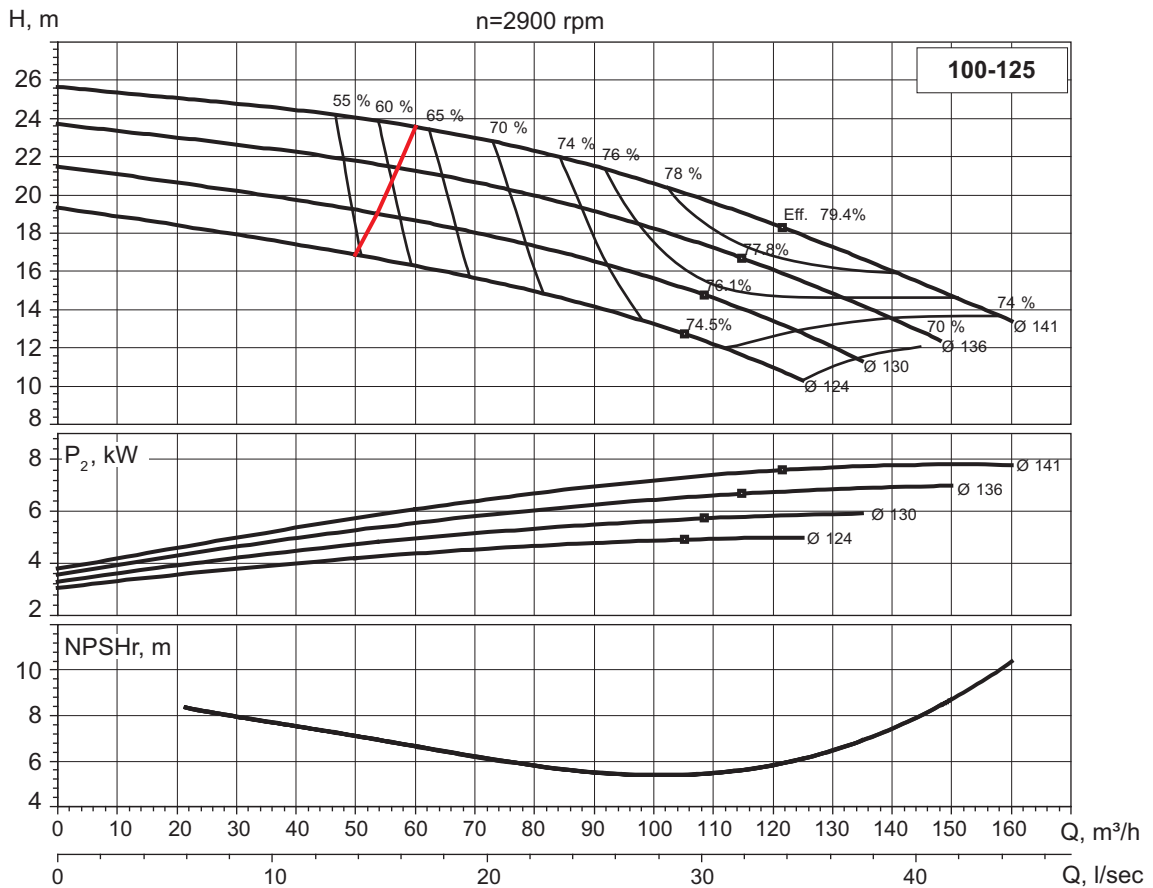
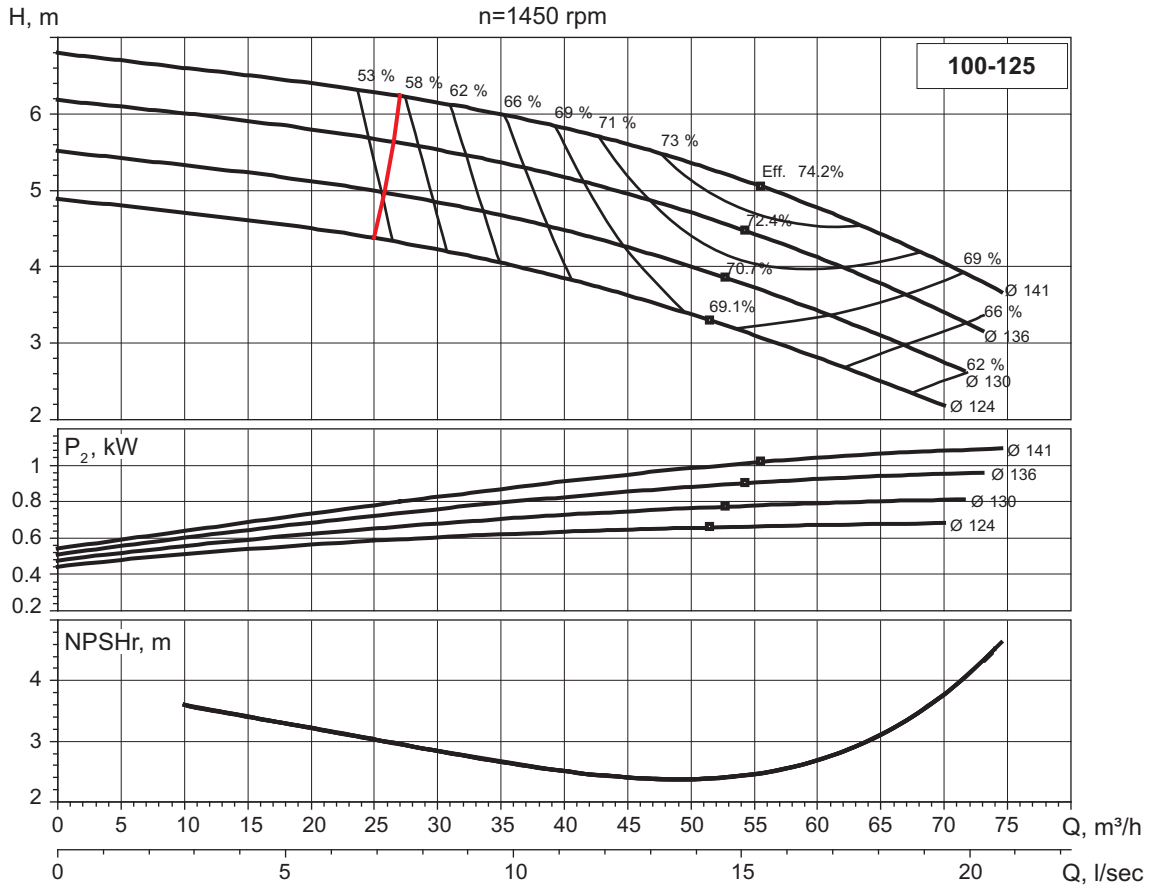


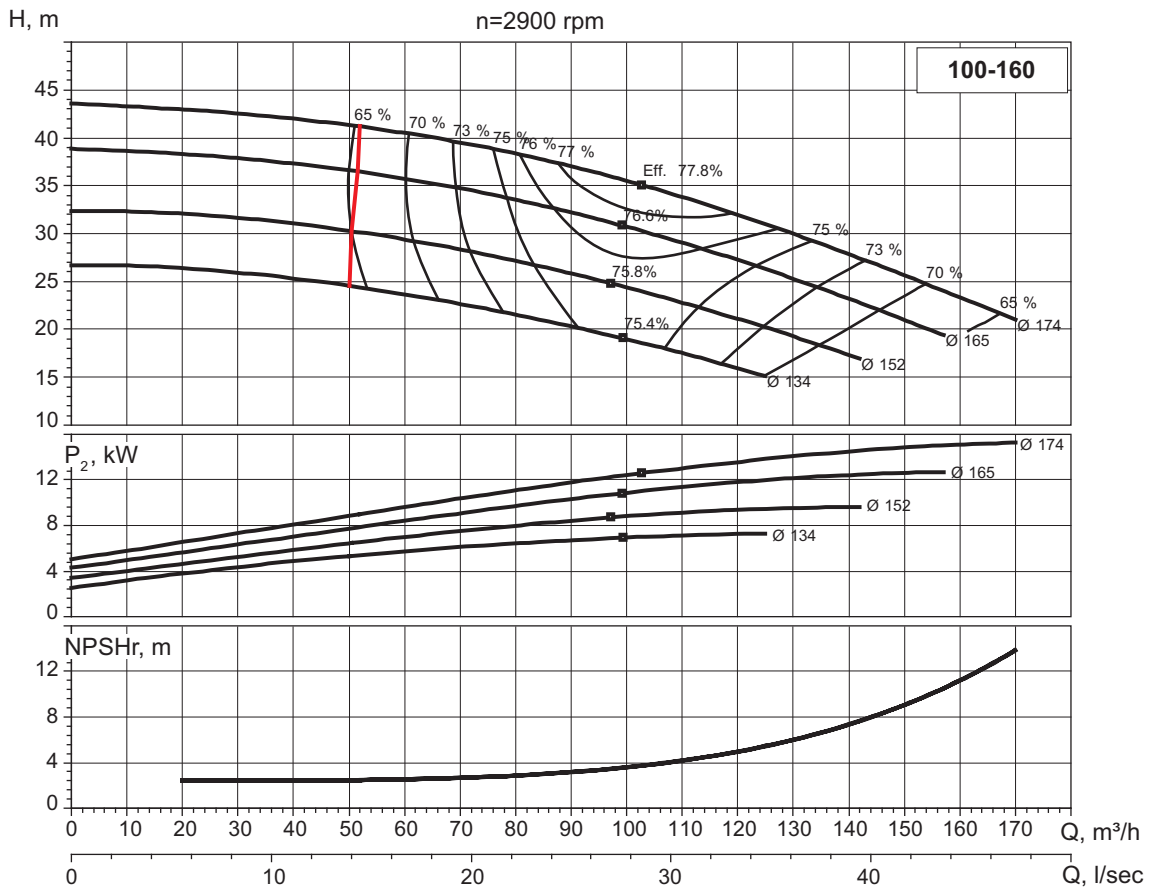
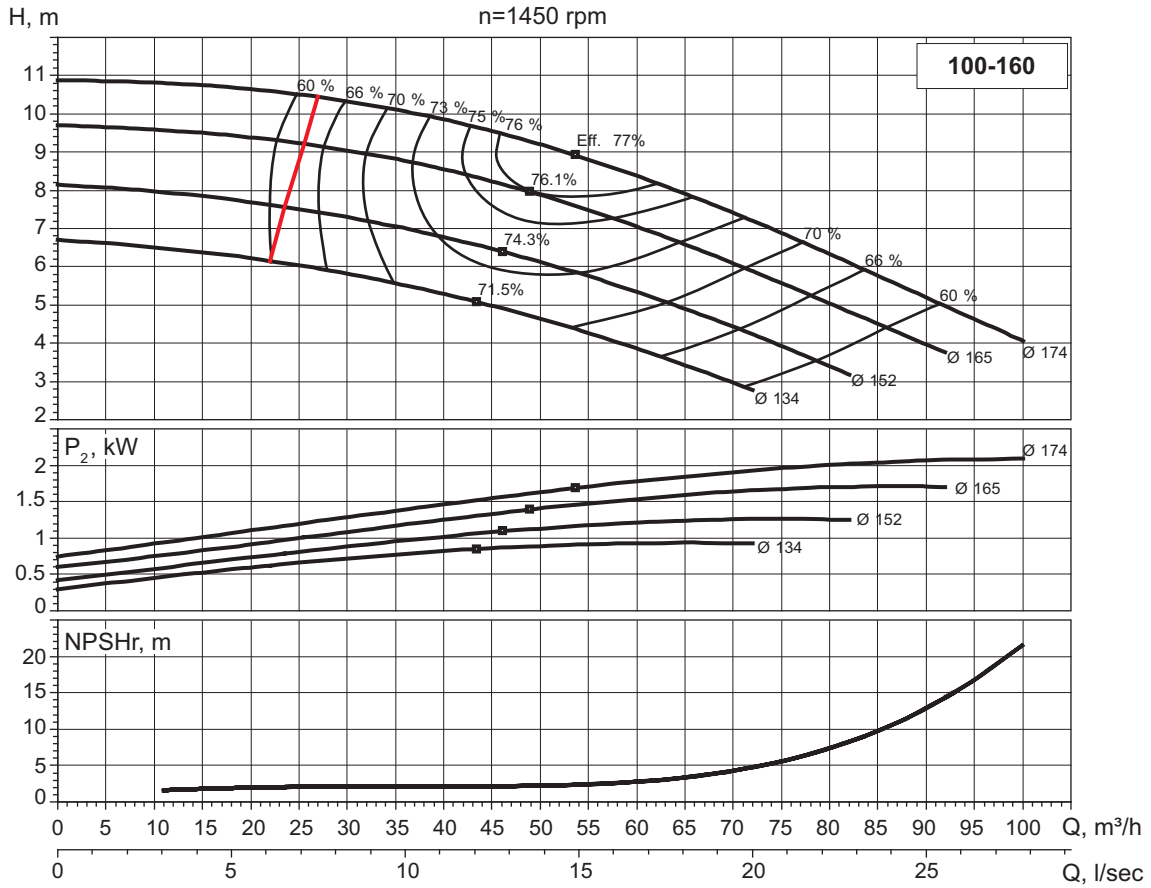


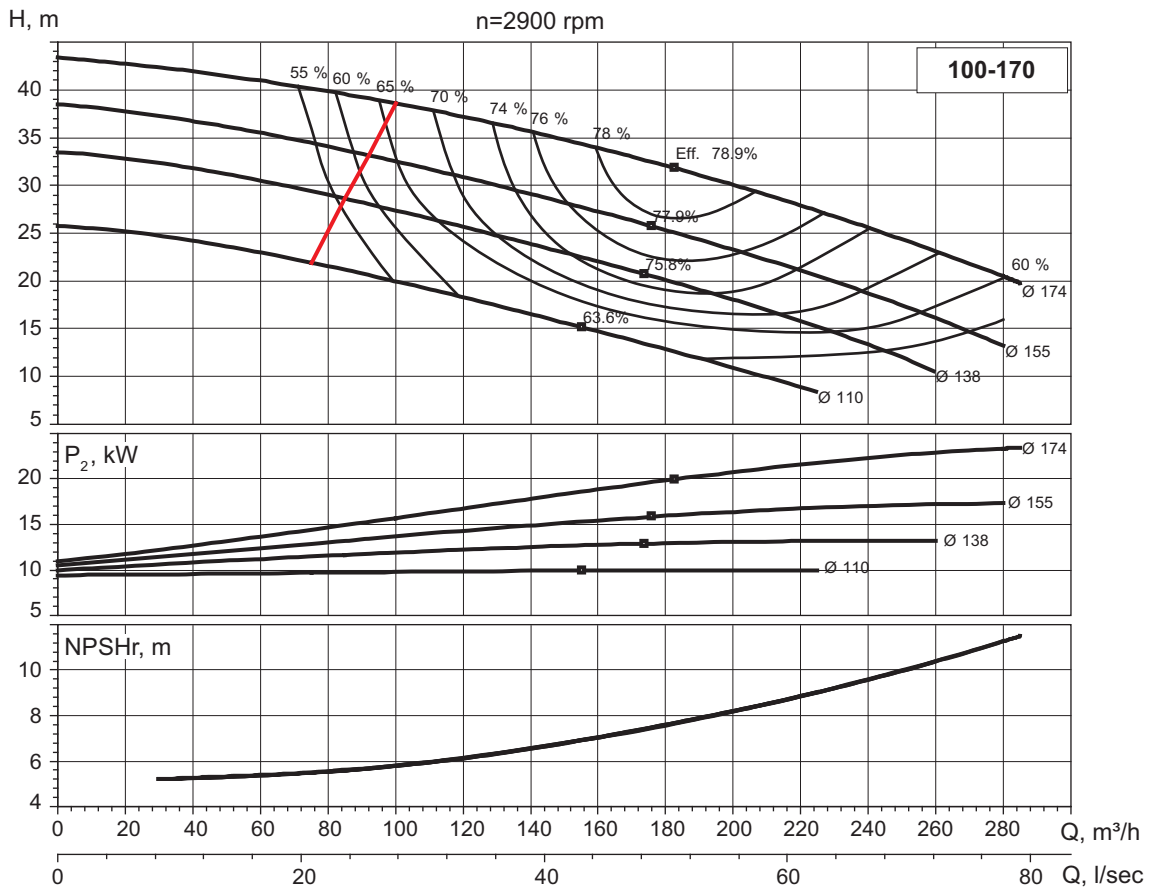
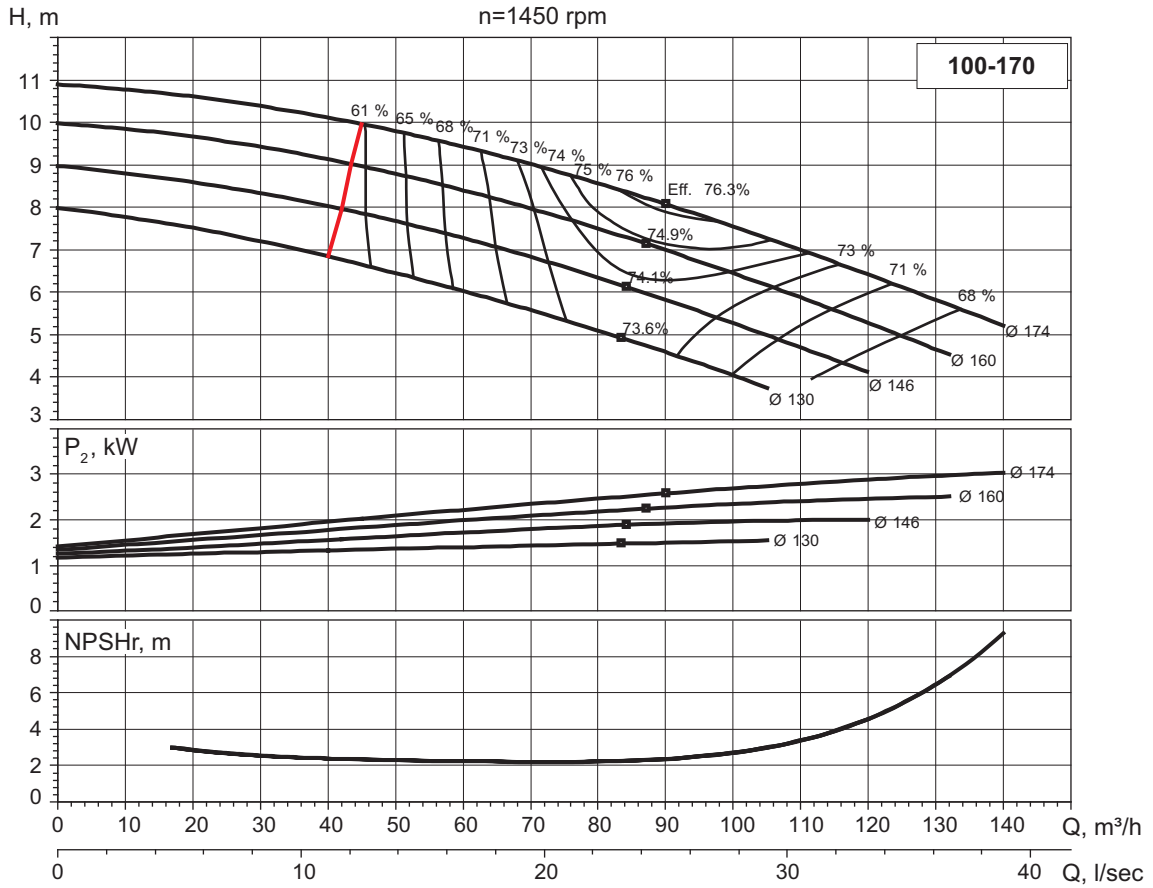


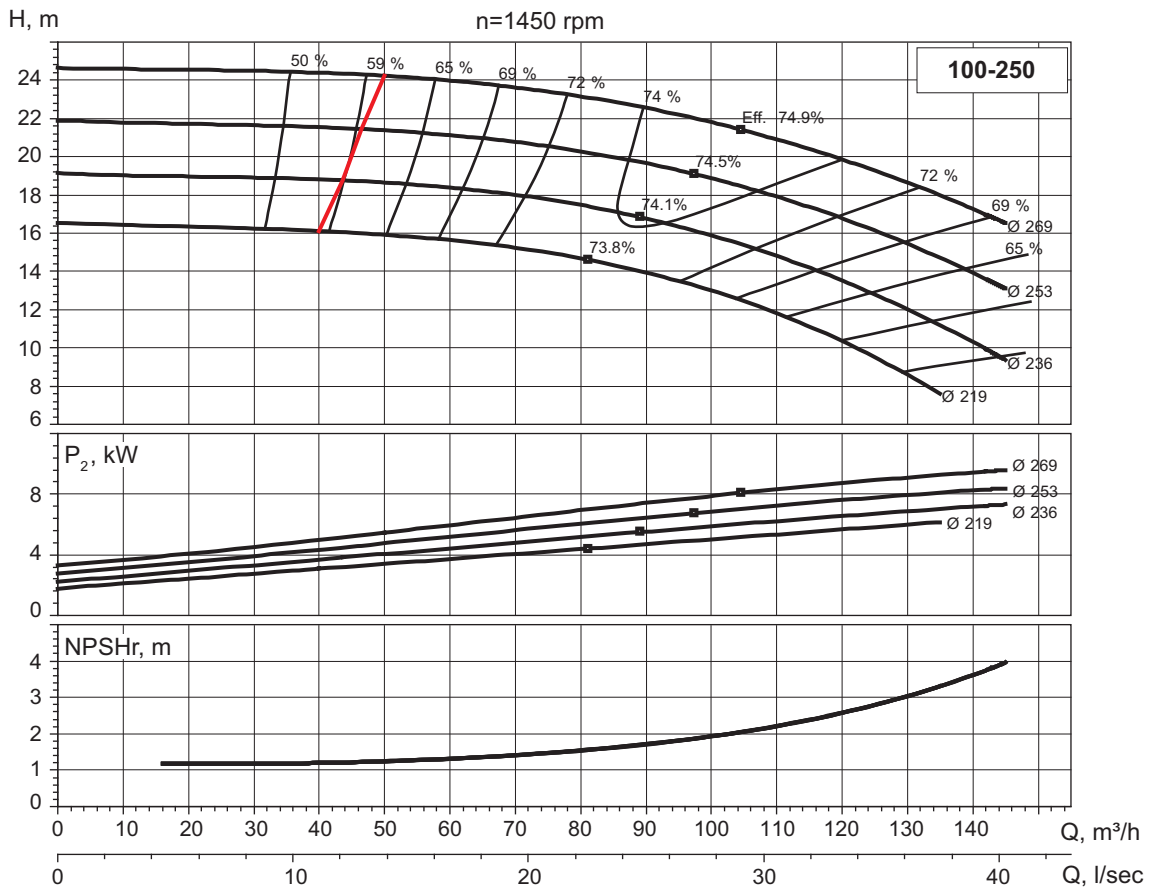
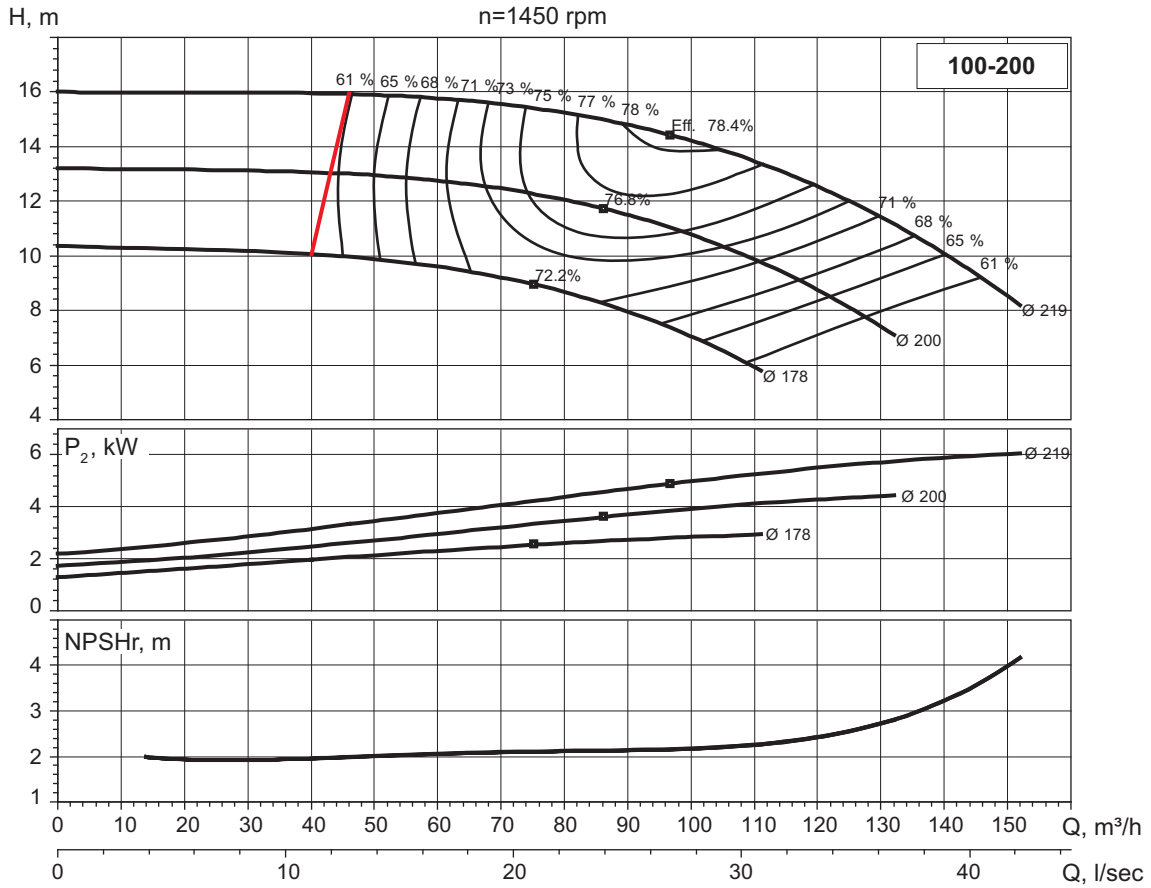


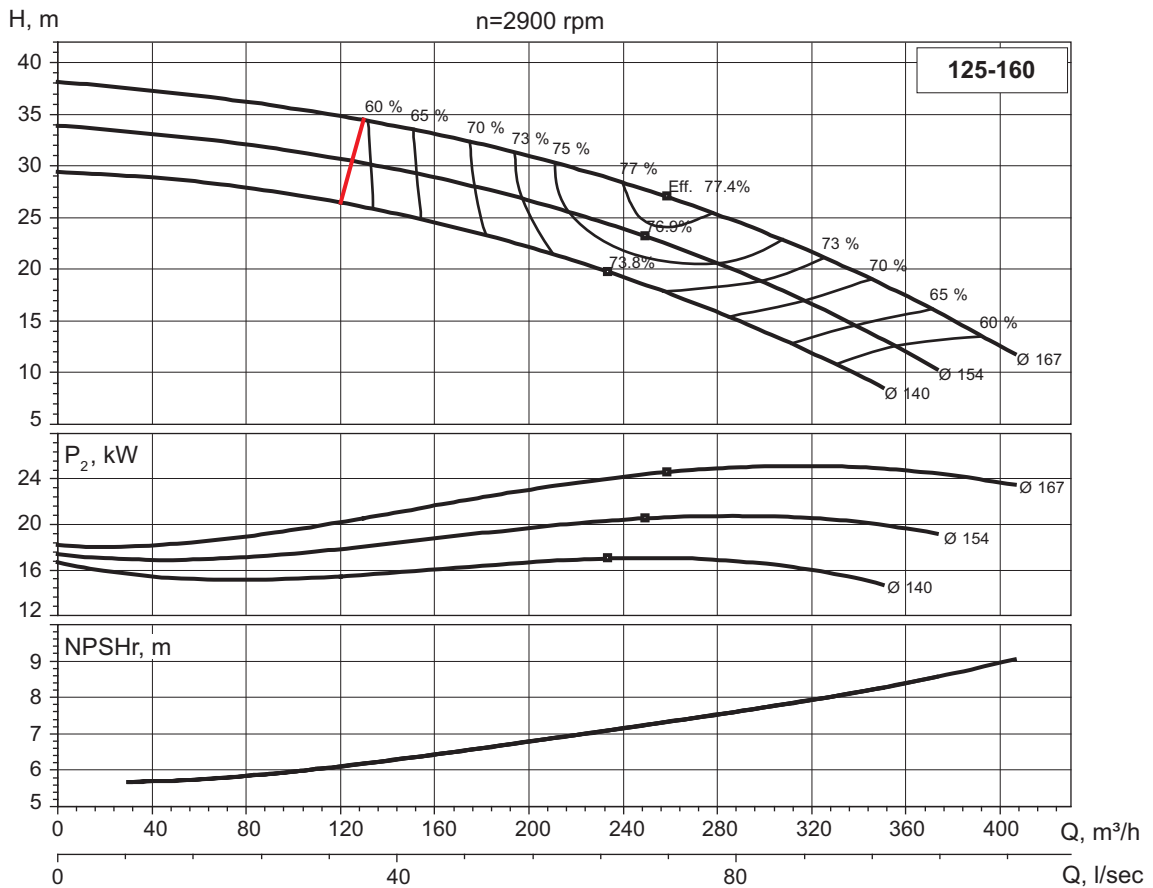
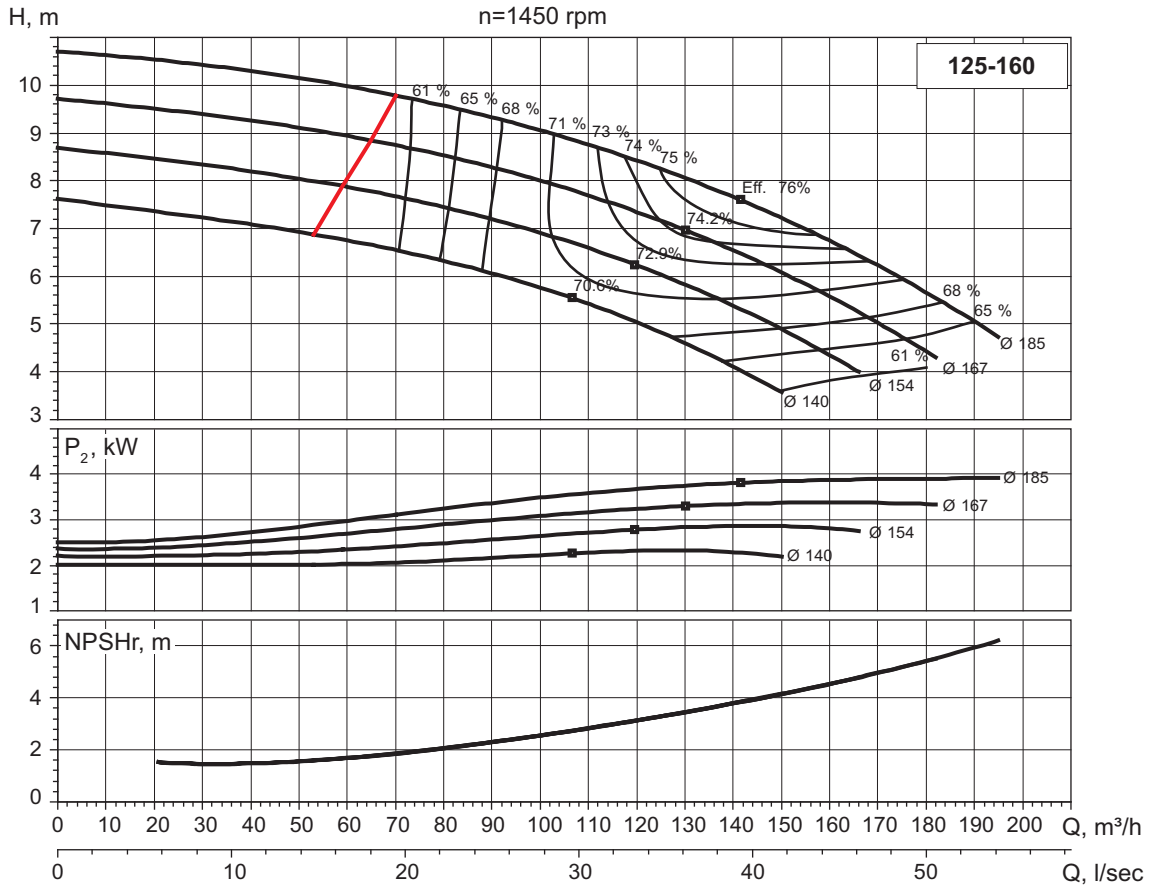


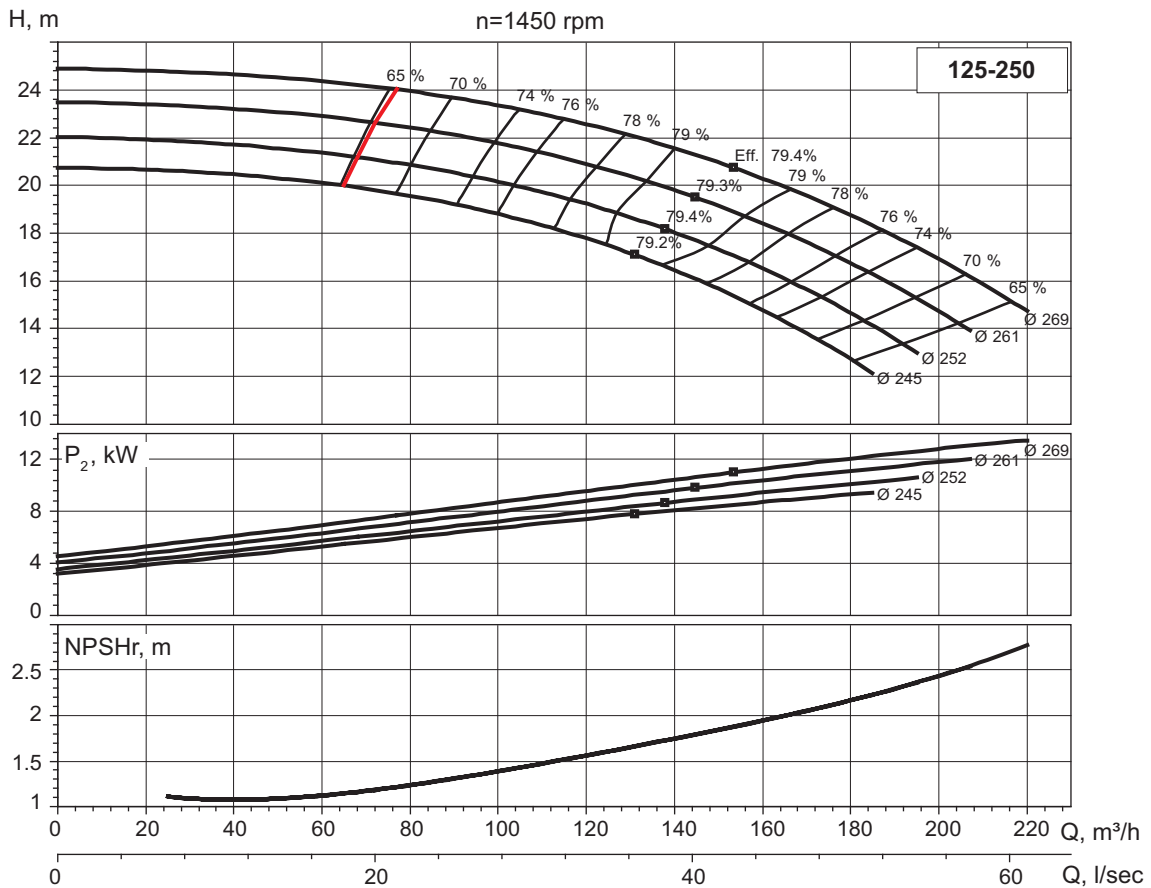
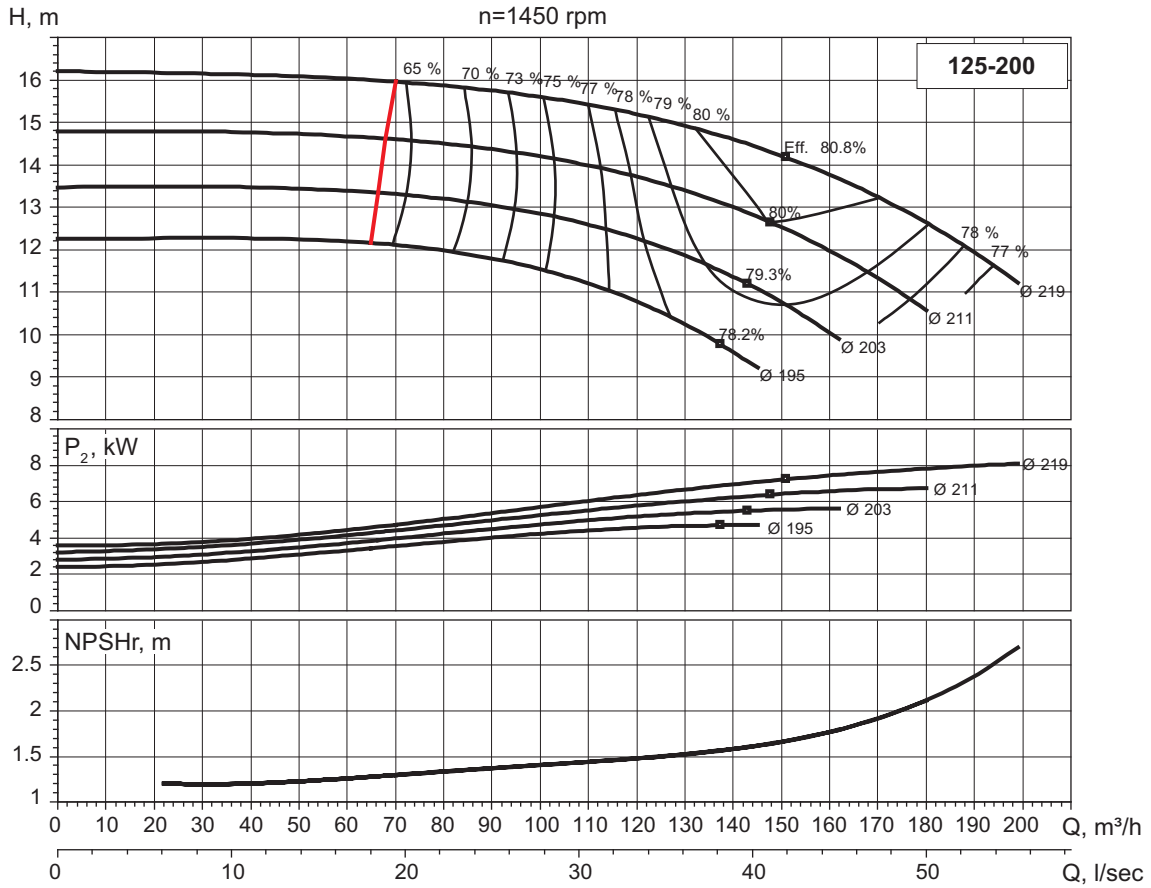


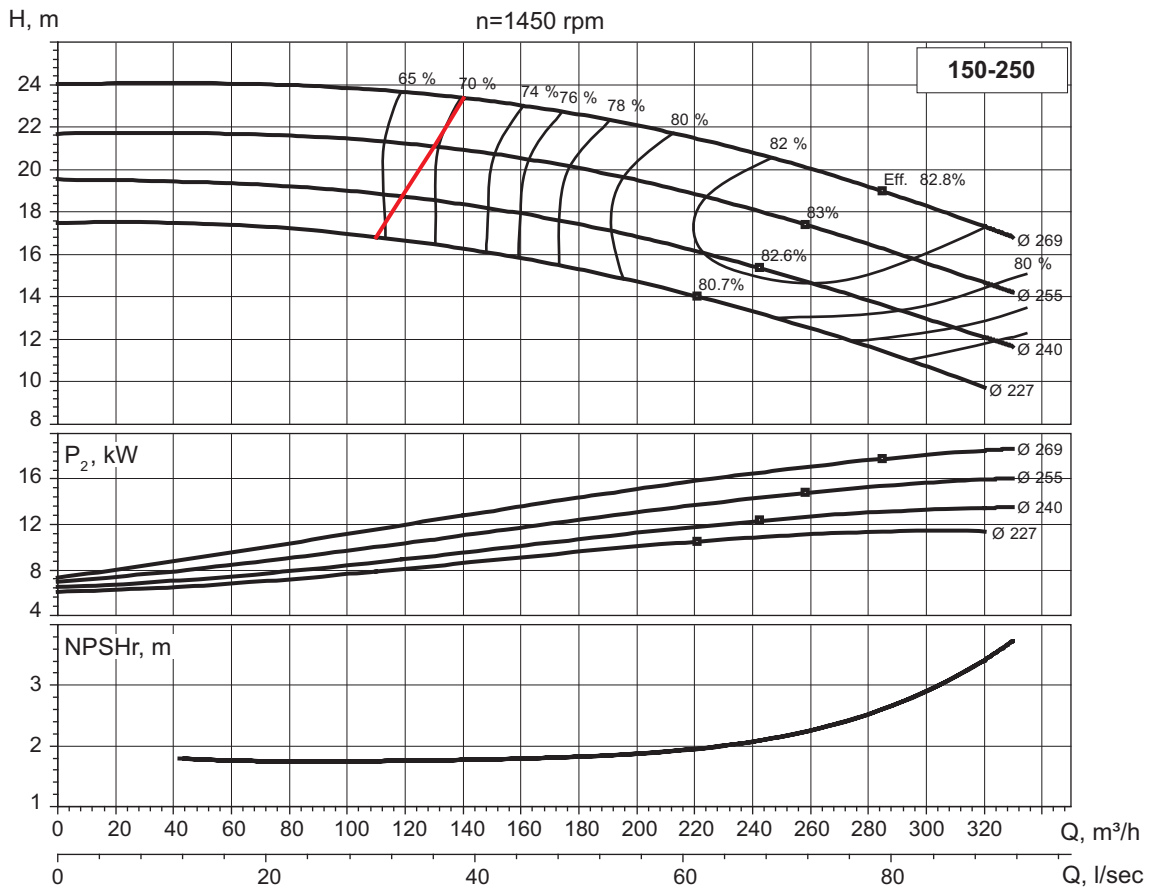
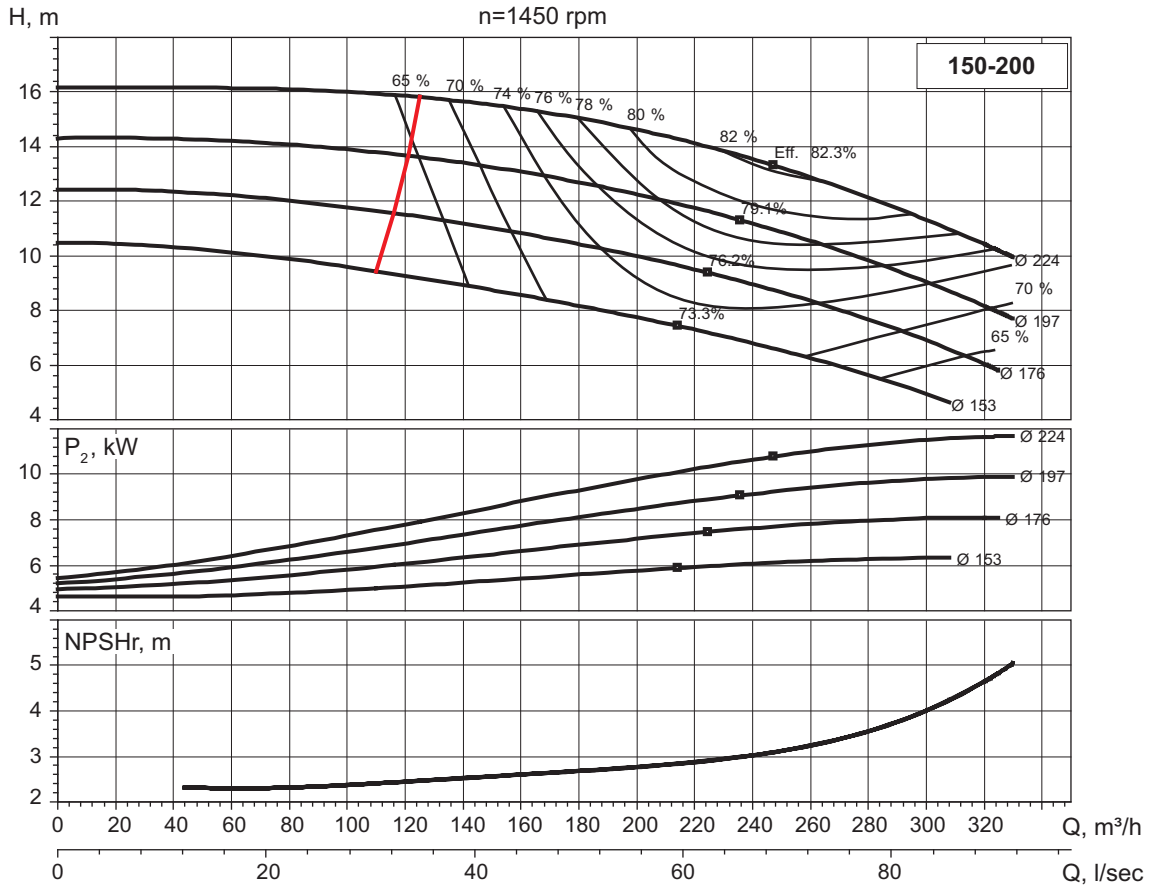


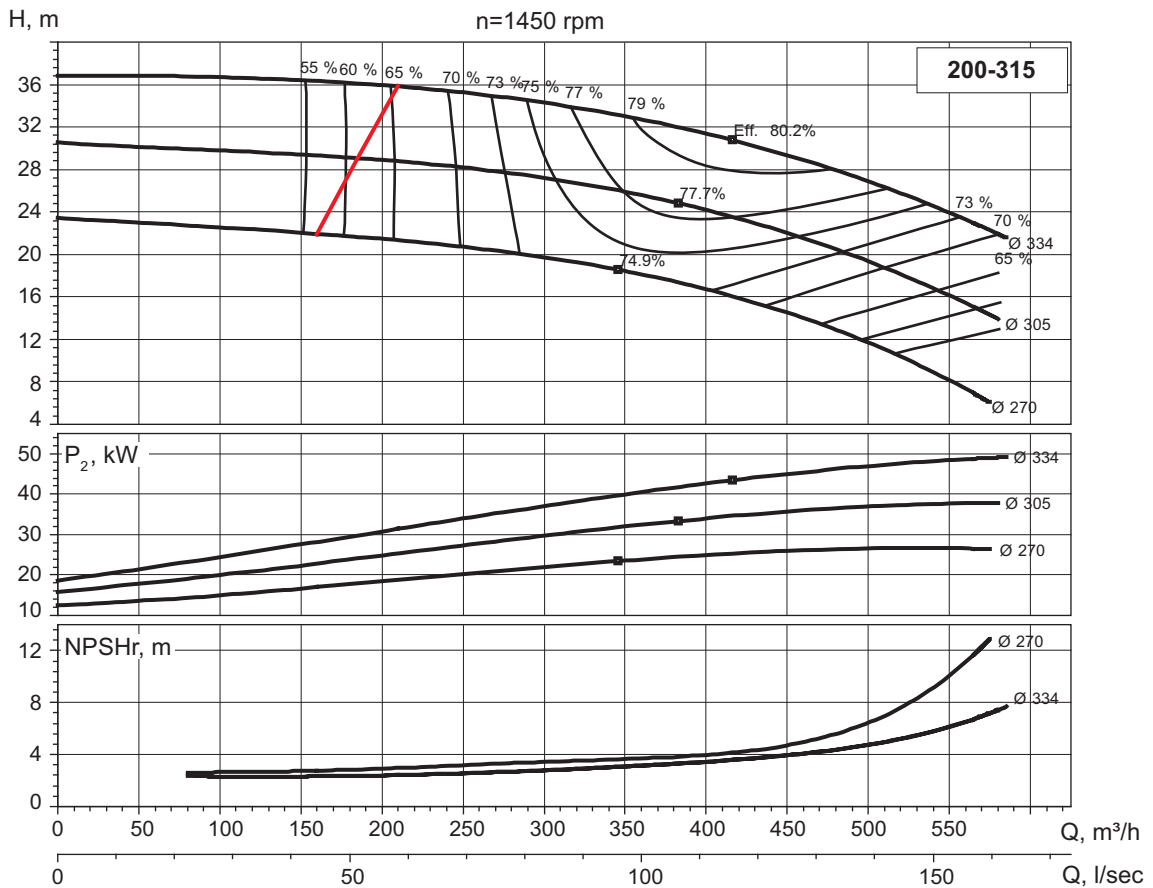
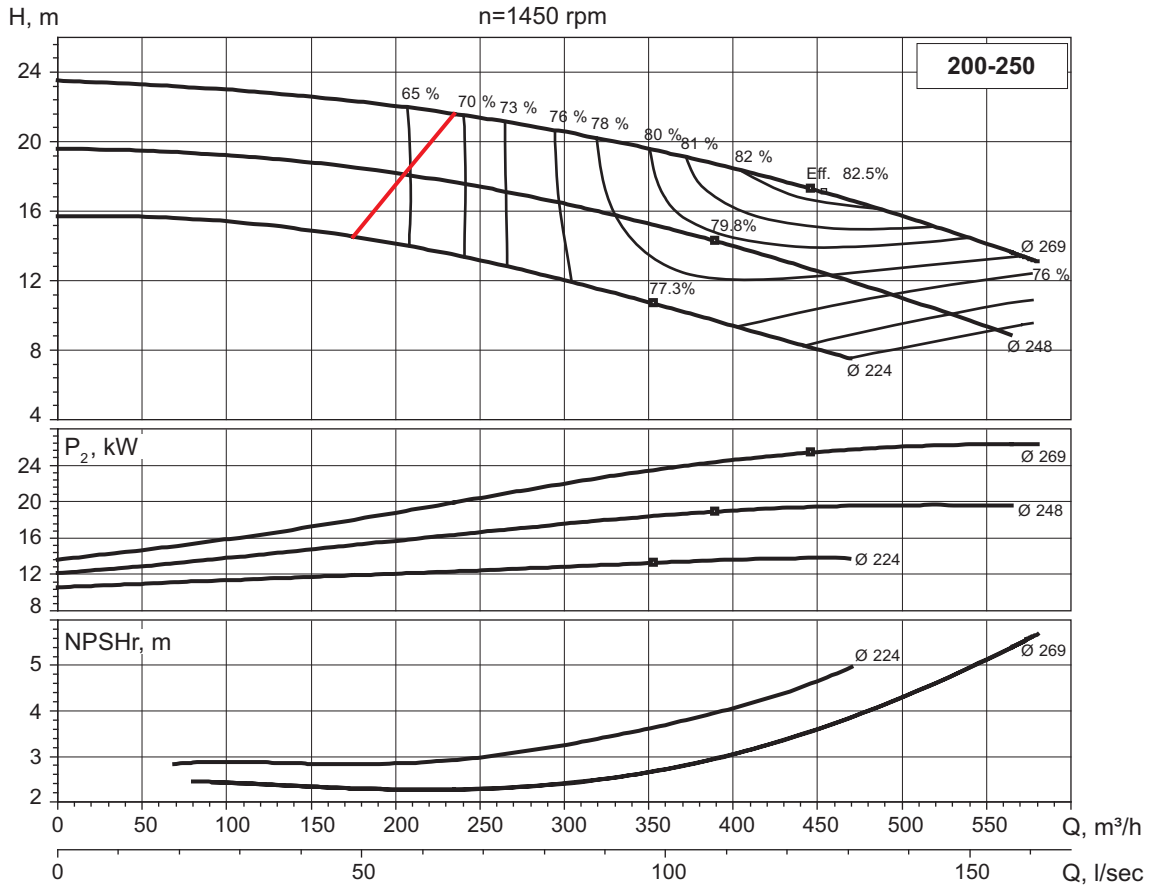




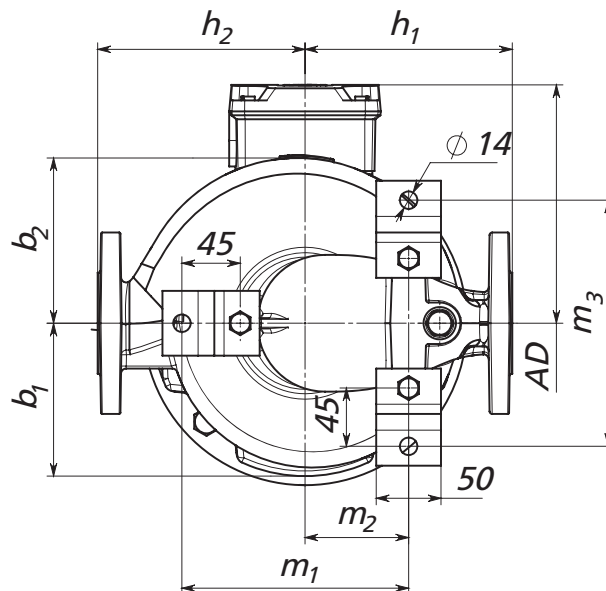
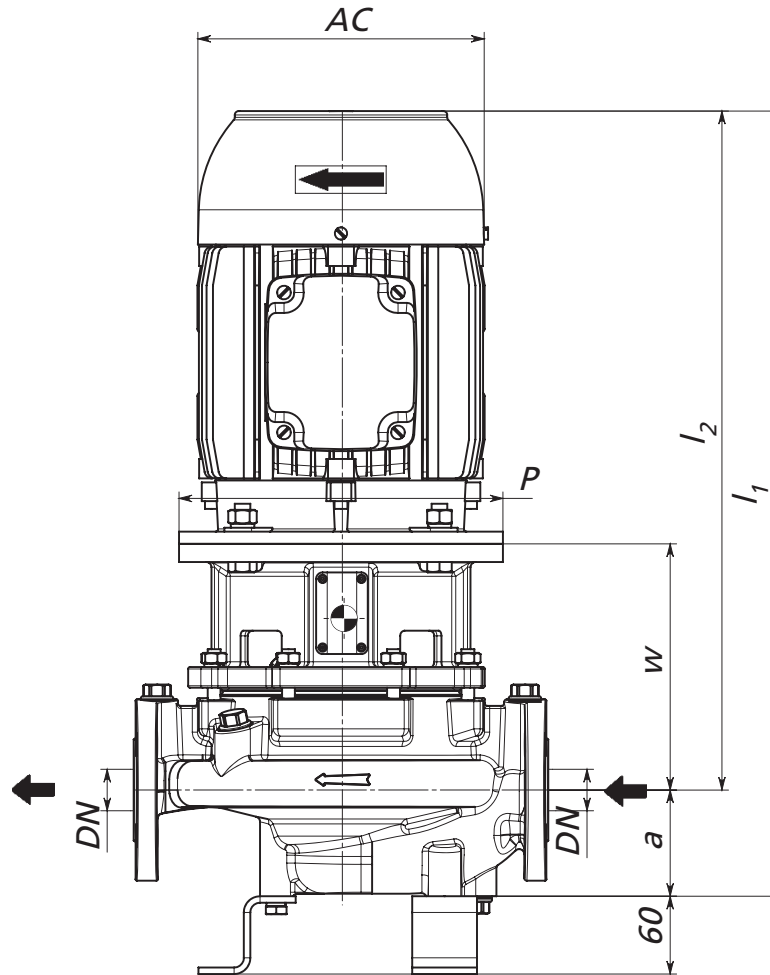








UNIT OVERALL DIMENSIONS

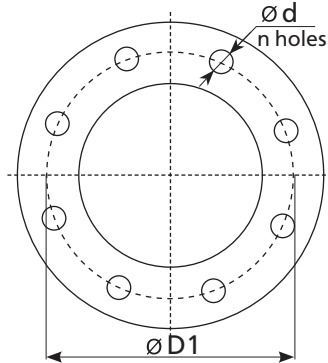


Pump	Electric motor		Type	DN	Dimensions, mm																
	Power, (P) kW				a	b1	b2	h1	h2	~l1	~l2	m1	m2	m3	P	w	~x	~AC	~AD		
	1 450 rpm	3 000 rpm																			
32-160	0.25	-	71A	32	87	119	131	180	160	434	347	175	80	190	200	136	30	150	117		
	0.37	-	71B		87	119	131	180	160	434	347	175	80	190	200	136	30	150	117		
	0.55	-	80A		87	119	131	180	160	474	387	175	80	190	200	156	40	150	117		
	0.75	-	80B		87	119	131	180	160	494	407	175	80	190	200	156	40	150	117		
	-	1.1	-		80B	87	119	131	180	160	494	407	175	80	190	200	156	40	150	117	
		1.5	-		90S	87	119	131	180	160	493	406	175	80	190	200	156	50	175	127	
		2.2	-		90L	87	119	131	180	160	493	406	175	80	190	200	156	50	175	127	
		3	-		100L	87	119	131	180	160	575	488	175	80	190	200	170	60	175	177	
		4	-		112M	87	119	131	180	160	617	530	175	80	190	200	170	60	218	165	
5.5	-	132S	87	119	131	180	160	675	588	175	80	190	200	193	80	255	198				
32-200	0.55	-	80A	32	100	134	146	250	190	487	387	175	100	190	200	156	40	150	117		
	0.75	-	80B		100	134	146	250	190	507	407	175	100	190	200	156	40	150	117		
	1.1	-	90S		100	134	146	250	190	506	406	175	100	190	200	156	50	175	127		
	-	4	-		112M	100	134	146	250	190	630	530	175	100	190	200	170	60	218	165	
		5.5	-		132S	100	134	146	250	190	688	588	175	100	190	200	193	80	255	198	
		7.5	-		132S	100	134	146	250	190	688	588	175	100	190	200	193	80	255	198	
40-160	0.37	-	71B	40	114	118	132	180	160	461	347	165	90	190	160	136	30	150	117		
	0.55	-	80A		114	118	132	180	160	461	347	165	90	190	160	156	40	150	117		
	-	2.2	-		90L	114	118	132	180	160	461	347	165	90	190	160	156	40	175	127	
		3	-		100L	114	118	132	180	160	461	347	165	90	190	160	170	60	175	177	
	-	4	-		112M	114	118	132	180	160	461	347	165	90	190	160	170	60	218	165	
		5.5	-		132S	114	118	132	180	160	461	347	165	90	190	160	193	80	255	198	
40-250	1.1	-	90S	40	104	163	173	220	220	514	410	175	100	190	200	160	50	175	127		
	1.5	-	90L		104	163	173	220	220	534	430	175	100	190	200	160	50	175	127		
	-	2.2	-		100L	104	163	173	220	220	596	492	175	100	190	200	160	50	175	177	
		3	-		100L	104	163	173	220	220	596	492	175	100	190	200	160	50	175	177	
	-	7.5	-		132S	104	163	173	220	220	696	592	175	100	190	200	160	50	255	198	
		11	-		160M	104	163	173	220	220	829	725	175	100	190	200	160	50	350	245	
		15	-		160M	104	163	173	220	220	829	725	175	100	190	200	160	50	350	245	
		-	18.5		-	160L	104	163	173	220	220	869	765	175	100	190	200	160	50	350	245
			18.5		-	160L	104	163	173	220	220	869	765	175	100	190	200	160	50	350	245
50-160	0.37	-	71B	50	134	116	135	250	190	481	347	175	100	190	160	136	30	150	117		
	0.55	-	80A		134	116	135	250	190	521	387	175	100	190	200	156	40	150	117		
	0.75	-	80B		134	116	135	250	190	541	407	175	100	190	200	156	40	150	117		
	-	1.1	-		90S	134	116	135	250	190	541	407	175	100	190	200	156	40	175	127	
		3	-		100L	134	116	135	250	190	622	488	175	100	190	200	170	60	175	177	
	-	4	-		112M	134	116	135	250	190	664	530	175	100	190	200	170	60	218	165	
		5.5	-		132S	134	116	135	250	190	722	588	175	100	190	200	193	80	255	198	
		7.5	-		132S	134	116	135	250	190	722	588	175	100	190	200	193	80	255	198	
		-	11		-	160M	134	116	135	250	190	855	721	175	100	190	200	226	110	350	245
11			-	160M	134	116	135	250	190	855	721	175	100	190	200	226	110	350	245		
50-250	1.5	-	90L	50	129	167	182	220	220	565	436	175	100	220	200	166	50	175	127		
	-	2.2	-		100L	129	167	182	220	220	627	498	175	100	220	200	180	60	175	177	
		3	-		100L	129	167	182	220	220	627	498	175	100	220	200	180	60	175	177	
	-	11	-		160M	129	167	182	220	220	860	731	175	100	220	200	236	110	350	245	
		15	-		160M	129	167	182	220	220	860	731	175	100	220	200	236	110	350	245	
		-	18.5		-	160L	129	167	182	220	220	900	771	175	100	220	200	236	110	350	245
			22		-	180M	129	167	182	220	220	900	771	175	100	220	200	236	110	350	245
	30	-	200L		129	167	182	220	220	975	846	175	100	220	200	236	110	380	275		

Pump	Electric motor		Dimensions, mm																	
	Power, (P) kW		Type	DN	a	b1	b2	h1	h2	~l1	~l2	m1	m2	m3	P	w	~x	~AC	~AD	
	1 450 rpm	3 000 rpm																		
65-160	0.37	-	71B	65	150	114	135	270	170	497	347	175	110	210	160	136	30	150	117	
	0.55		80A		150	114	135	270	170	537	387	175	110	210	160	156	40	150	117	
	0.75		80B		150	114	135	270	170	557	407	175	110	210	160	156	40	150	117	
	1.1		90S		150	114	135	270	170	556	406	175	110	210	160	156	50	175	127	
	1.5		90L		150	114	135	270	170	576	426	175	110	210	160	156	50	175	127	
	2.2		100L		150	114	135	270	170	638	488	175	110	210	160	170	60	175	177	
	-		3		100L	150	114	135	270	170	638	488	175	110	210	160	170	60	175	177
			4		112M	150	114	135	270	170	680	530	175	110	210	160	170	60	218	165
			5.5		132S	150	114	135	270	170	728	588	175	110	210	160	193	80	255	198
			7.5		132S	150	114	135	270	170	728	588	175	110	210	160	193	80	255	198
			11		160M	150	114	135	270	170	871	721	175	110	210	160	226	110	350	245
15	160M	150	114	135	270	170	871	721	175	110	210	160	226	110	350	245				
65-250	2.2	-	100L	65	134	174	196	225	250	647	513	175	100	220	250	195	60	175	177	
	3		100L		134	174	196	225	250	647	513	175	100	220	250	195	60	175	177	
	4		112M		134	174	196	225	250	689	555	175	100	220	250	195	60	218	165	
	5.5		132S		134	174	196	225	250	747	613	175	100	220	250	218	80	255	198	
	-		18.5		160L	134	174	196	225	250	920	789	175	100	220	250	251	110	350	245
			22		180M	134	174	196	225	250	920	786	175	100	220	250	251	110	350	245
			30		200L	134	174	196	225	250	995	861	175	100	220	250	251	110	380	275
			37		200L	134	174	196	225	250	995	861	175	100	220	250	251	110	380	275
80-160	0.75	-	80B	80	176	176	119	260	180	583	407	175	100	230	200	156	40	150	117	
	1.1		90S		176	176	119	260	180	582	406	175	100	230	200	156	50	175	127	
	1.5		90L		176	176	119	260	180	582	406	175	100	230	200	156	50	175	127	
	2.2		100L		176	176	119	260	180	664	488	175	100	230	200	170	60	175	177	
	-		7.5		132S	176	176	119	260	180	764	588	175	100	230	200	193	80	255	198
			11		160M	176	176	119	260	180	897	721	175	100	230	200	226	110	350	245
			15		160M	176	176	119	260	180	897	721	175	100	230	200	226	110	350	245
			18.5		160L	176	176	119	260	180	937	761	175	100	230	200	226	110	350	245
80-210	2.2	-	100L	80	158	150	170	250	250	661	503	215	130	250	250	185	60	175	177	
	3		100L		158	150	170	250	250	661	503	215	130	250	250	185	60	175	177	
	4		112M		158	150	170	250	250	703	545	215	130	250	250	185	60	218	165	
	5.5		132S		158	150	170	250	250	761	603	215	130	250	250	208	80	255	198	
	-		15		160M	158	150	170	250	250	894	736	215	130	250	250	241	110	350	245
			18.5		160L	158	150	170	250	250	934	776	215	130	250	250	241	110	350	245
			22		180M	158	150	170	250	250	934	776	215	130	250	250	241	110	350	245
			30		200L	158	150	170	250	250	1009	851	215	130	250	250	241	110	380	275
			37		200L	158	150	170	250	250	1009	851	215	130	250	250	241	110	380	275
80-250	3	-	100L	80	187	173	193	350	270	695	508	180	105	230	250	190	60	175	177	
	4		112M		187	173	193	350	270	737	550	180	105	230	250	190	60	218	165	
	5.5		132S		187	173	193	350	270	795	608	180	105	230	300	213	80	255	198	
	7.5		132M		187	173	193	350	270	795	608	180	105	230	300	213	80	255	198	
100-125	0.75	-	80B	100	129	112	160	230	220	545	416	195	100	230	200	165	40	150	117	
	1.1		90S		129	112	160	230	220	544	415	195	100	230	200	165	50	175	127	
	-		5.5		132S	129	112	160	230	220	726	597	195	100	230	300	202	80	255	198
			7.5		132S	129	112	160	230	220	726	597	195	100	230	300	202	80	255	198
			11		160M	129	112	160	230	220	859	730	195	100	230	350	235	110	350	245

Pump	Electric motor			Dimensions, mm															
	Power, (P) kW		Type	DN	a	b1	b2	h1	h2	~l1	~l2	m1	m2	m3	P	w	~x	~AC	~AD
	1 450 rpm	3 000 rpm																	
100-160	1.1		90S	100	156	128	163	245	205	582	426	-	-	-	200	176	50	175	127
	1.5		90L		156	128	163	245	205	602	446	-	-	-	200	176	50	175	127
	2.2		100L		156	128	163	245	205	664	508	-	-	-	250	190	60	175	177
	-	7.5	132S		156	128	163	245	205	764	608	-	-	-	300	213	80	255	198
		11	160M		156	128	163	245	205	897	741	-	-	-	350	246	110	350	245
		15	160M		156	128	163	245	205	897	741	-	-	-	350	246	110	350	245
		18.5	160L		156	128	163	245	205	937	781	-	-	-	350	246	110	350	245
100-170	1.5		90L	100	135	124	171	245	205	581	446	-	-	-	200	176	50	175	127
	2.2	-	100L		135	124	171	245	205	643	508	-	-	-	250	190	60	175	177
	3		100L		135	124	171	245	205	643	508	-	-	-	250	190	60	175	177
	-	11	160M		135	124	171	245	205	876	741	-	-	-	350	246	110	350	245
		15	160M		135	124	171	245	205	876	741	-	-	-	350	246	110	350	245
		18.5	160L		135	124	171	245	205	916	781	-	-	-	350	246	110	350	245
		22	180M		135	124	171	245	205	916	781	-	-	-	350	246	110	350	245
30	200L	135	124	171	245	205	991	856	-	-	-	400	246	110	380	275			
100-200	3		100L	100	180	172	202	305	245	688	508	-	-	-	250	190	60	175	177
	4	-	112M		180	172	202	305	245	730	550	-	-	-	250	190	60	218	165
	5.5		132S		180	172	202	305	245	788	608	-	-	-	300	213	80	255	198
	7.5		132M		180	172	202	305	245	818	638	-	-	-	300	213	80	255	198
100-250	7.5	-	132M	100	158	196	222	290	260	820	662	-	-	-	300	237	80	255	198
	11		160M		158	196	222	290	260	923	765	-	-	-	350	270	110	350	245
125-160	2.2		100L	125	203	182	226	420	280	711	508	-	-	-	250	190	60	175	177
	3	-	100L		203	182	226	420	280	711	508	-	-	-	250	190	60	175	177
	4		112M		203	182	226	420	280	753	550	-	-	-	250	190	60	218	165
	-	18.5	160L		203	182	226	420	280	984	781	-	-	-	350	246	110	350	245
		22	180M		203	182	226	420	280	984	781	-	-	-	350	246	110	350	245
		30	200L		203	182	226	420	280	1059	856	-	-	-	400	246	110	380	275
125-200	5.5	-	132S	125	206	175	214	380	320	814	608	-	-	-	300	213	80	255	198
	7.5		132M		206	175	214	380	320	844	638	-	-	-	300	213	80	255	198
	11		160M		206	175	214	380	320	947	741	-	-	-	350	246	110	350	245
125-250	11	-	160M	125	210	188	219	380	320	951	741	-	-	-	350	246	110	350	245
	15		160L		210	188	219	380	320	991	781	-	-	-	350	246	110	350	245
150-200	7.5	-	132M	150	230	187	240	385	315	868	638	-	-	-	300	213	80	255	198
	11		160M		230	187	240	385	315	971	741	-	-	-	350	246	110	350	245
	15		160L		230	187	240	385	315	1011	781	-	-	-	350	246	110	350	245
150-250	15	-	160L	150	222	226	275	370	330	1018	796	-	-	-	350	261	110	350	245
	18.5		180M		222	226	275	370	330	1018	796	-	-	-	350	261	110	350	245
	22		180L		222	226	275	370	330	1018	796	-	-	-	350	261	110	350	245
200-250	15	-	160L	200	222	233	303	400	400	1056	834	-	-	-	350	299	110	350	245
	18.5		180M		222	233	303	400	400	1056	834	-	-	-	350	299	110	350	245
	22		180L		222	233	303	400	400	1056	834	-	-	-	350	299	110	350	245
	30		200L		222	233	303	400	400	1131	909	-	-	-	400	299	110	380	275
200-315	30	-	200L	200	255	259	318	490	410	1141	886	-	-	-	400	276	110	380	275
	37		225S		255	259	318	490	410	1172	917	-	-	-	450	307	140	380	275
	45		225M		255	259	318	490	410	1257	1002	-	-	-	450	307	140	380	275
	55		250M		255	259	318	490	410	1304	1049	-	-	-	550	319	140	420	290

FLANGES DIMENSIONS



Ranges		DIN EN 1092-2	GOST 33259-2015
		PN16	PN16
DN32	D1	100	100
	d	19	18
	n	4	4
DN40	D1	110	110
	d	19	18
	n	4	4
DN50	D1	125	125
	d	19	18
	n	4	4
DN65	D1	145	145
	d	19	18
	n	4	4
DN80	D1	160	160
	d	19	18
	n	4	4
DN100	D1	180	180
	d	19	18
	n	8	8
DN125	D1	210	210
	d	19	18
	n	8	8
DN150	D1	240	240
	d	23	22
	n	8	8
DN200	D1	295	295
	d	23	22
	n	12	12
DN250	D1	355	335
	d	28	26
	n	12	12
DN300	D1	410	410
	d	28	26
	n	12	12
DN350	D1	470	470
	d	28	26
	n	16	16

REQUEST FOR QUOTATION (ORDER FORM)**Kordis In-line 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 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	Suction / discharge pressure	bar	
1.4	NPSHR	m	
2. Pumped media			
2.1	Pumped liquid description		
2.2	Solids volume concentration	%	
2.3	Solids size (abrasive/non-abrasive)	mm	
2.4	Temperature of pumped liquid	°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 hazard	yes / no	
3. Drive			
4.1	Voltage		
4.2	Frequency		
4.3	Number of phases		
4.4	Variable frequency drive requirement	yes / no	
5. Appendixes: (installation scheme, control panels & automation, other requirements)			

Name _____

Position _____

Company _____

Phone _____

Address _____

E-mail _____



HMS Group is the leading in Russia and CIS manufacturer of pumps, compressors, skid-mounted and modular process equipment for oil & gas, nuclear and thermal power generation, water supply & sewage disposal, and the other industries.

KEY FACTS & FIGURES

- HMS Group foundation: 1993
- Manufacturing facilities in Russia, CIS and Europe
- Extensive track record of the integrated projects for oil & gas and water & utilities
- Over 14,500 employees worldwide
- Representative offices in Turkmenistan, Kazakhstan, Iran, Italy, and UAE

For water supply and sewage disposal applications HMS Group offers its state-of-the-art, reliable and energy-efficient solutions at any level: from design engineering, manufacturing, and procurement of any main and auxiliary pumps and systems to realization of the integrated turnkey EPC projects.

RESEARCH & DEVELOPMENT

The contemporary R&D base of HMS Group is represented by the own engineering centers located in Russia, CIS and Europe with integrated management and application of the latest 3D design and flow modeling software based on SolidWorks, PumpLinx, ANSYS CFX and other platforms.

The HMS Group engineers cooperate closely with the customers and participate actively in the development of technical requirements as well as adjust the newest engineering solutions to the customer's process environment.

MANUFACTURING

The pumping equipment including all critical parts and components is manufactured at the HMS Group's factories equipped with up-to-date processing centers and NC machine tools by the leading manufacturers from Germany, Great Britain, and South Korea. The casing parts and impellers are fabricated at the large foundries equipped with the new molding lines and induction furnaces.

TESTING

The HMS Group production facilities have the unique equipment for in-situ testing of pumps and systems in accordance with the international standard ISO 9906:2012 Grade 2B requirements or by the special customer-approved methods within the following range of the main operating parameters:

- Capacity: up to 16,000 m³/h
- Head: up to 4,000 m
- Drive power: up to 14,000 kW

SERVICE

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

STANDARDS & QUALITY

The companies of HMS Group engineer and manufacture the pumps for water supply and sewage disposal applications in a strict compliance with the Russian state standard (GOST) as well as in compliance with the main international standards: ISO, DIN EN, ANSI, NEMA.

**HMS Group Moscow
International Sales Department**

Phone: + 7 (495) 730 6601

E-mail: export@hms.ru

www.grouphms.com

www.hms.biz



**The manufacturer of the Kordis inline pumps
is HMS Livgidromash (HMS Group)**

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