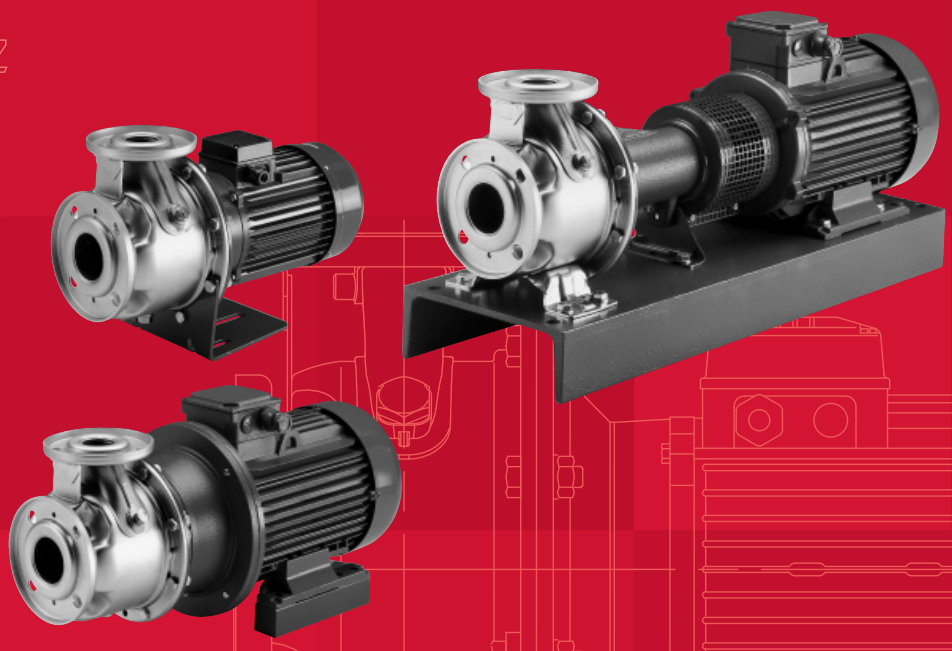
XN Series

Technical Guide

Centrifugal electric pumps made of AISI 316 stainless steel in compliance with EN733

50 Hz



ESPA
Innovative Solutions

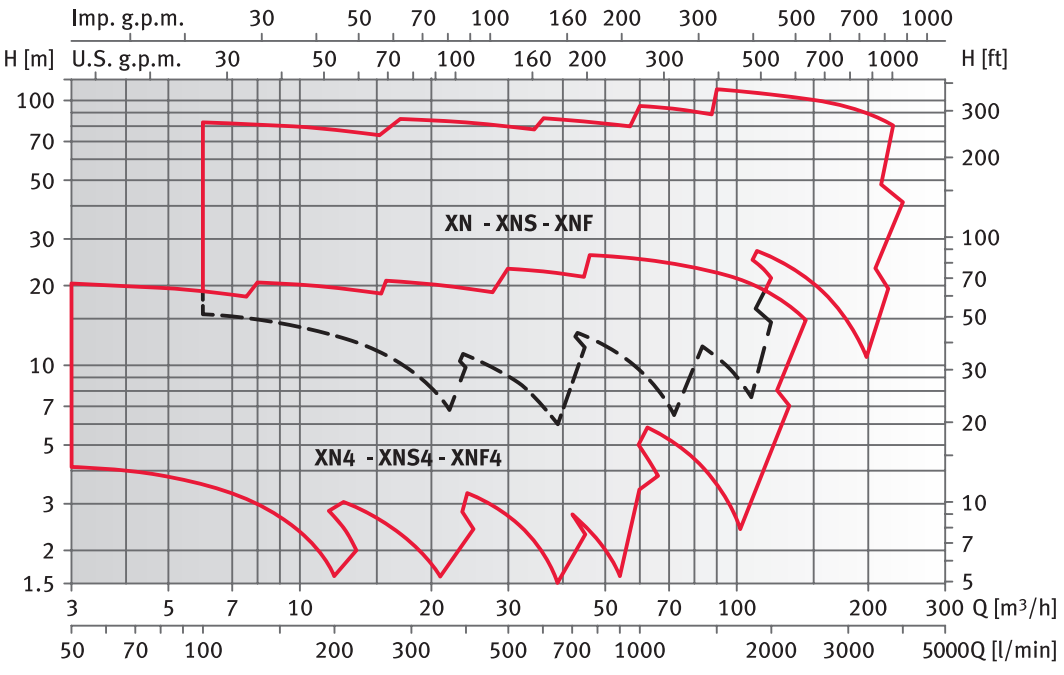
Monobloc centrifugal electropumps based on the EN733 standard, series XN

The XN pump is a monobloc centrifugal pump made of AISI 316 stainless steel based on the EN733 standard.

Market sectors: The Espa **XN** series pumps are used for water and clean liquid circulation in heating, ventilating and air conditioning systems, and for pressure boosting in industrial applications.

- Piping of water and clean liquids that are not chemically aggressive.
- Water circulation in air conditioning facilities.
- Industry.

Field of application ⇢ XN at 2900 rpm and 1450 rpm



Curves obtained in accordance with ISO9906 appendix A.

Specifications

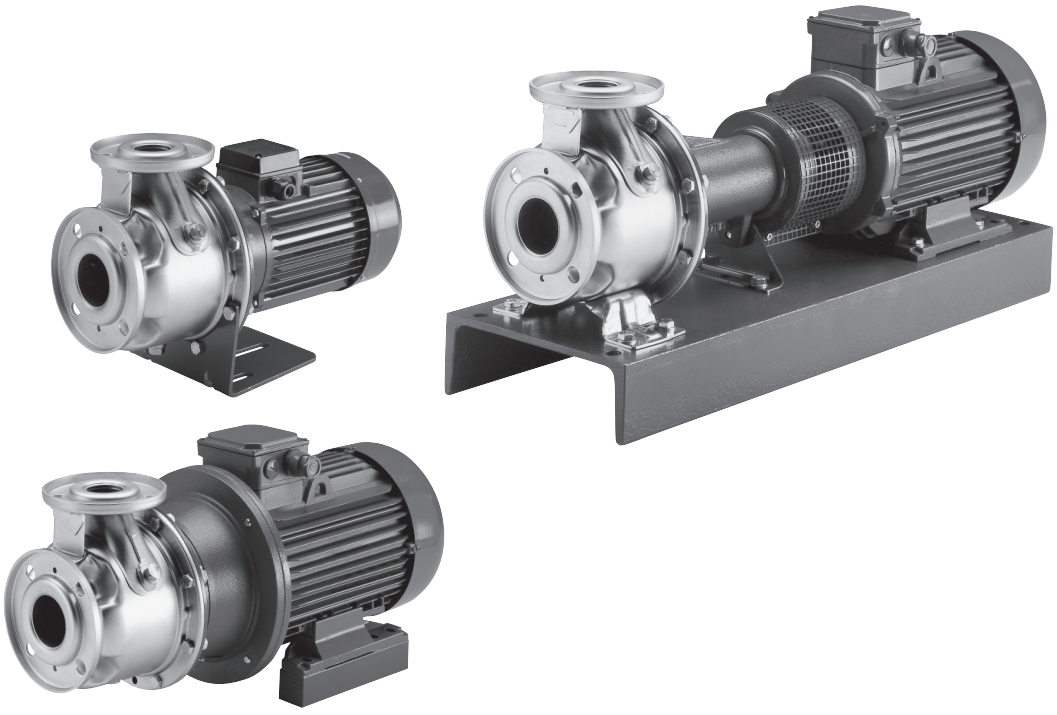
- The **XN** series consists of single-stage centrifugal pumps made of pressed AISI 316 stainless steel.
- The liquid sizes and diameters of the suction and delivery ports are in compliance with EN 733 standards (ex DIN 24255).
- Flange dimensions in compliance with EN 1092-1.
- Available sizes: DN 25 to DN 80.
- Anti-clockwise rotation when facing pump's suction port.
- Back pull-out design.

Technical data

- Delivery: up to 240 m^3/h to 2 poles, up to 130 m^3/h to 4 poles.
- Head: up to 110 m to 2 poles, 23 m to 4 poles.
- Temperature of pumped liquid: standard -10°C to +120°C. Special version available on request.
- Maximum working: 12 bar (PN 12).

Electrical and motor specifications

- Three-phase asynchronous, squirrel cage rotor, enclosed construction, external ventilation.
- Performances according to EN 60034-1.
- The surface motors have efficiency values that fall within the range normally referred to as efficiency class 2.
- IP 55 protection.
- Insulation class F.
- Max. ambient temperature: 40°C. For different environmental conditions, check the power.
- Overload protection to be provided by user.
- Standard voltage :
  Single-phase version: 220-240 V 50 Hz.
  Three-phase version: 220-240/380-415 V 50 Hz for powers up to 4 kW; 380-415/660-690 V 50 Hz for powers above 4 kW.



Construction characteristics

- Stainless steel centrifugal pump with end suction and radial discharge ports.
- Pump body made of AISI 316L stainless steel.
- Flanges in compliance with EN1092-1 and DIN2532.
- Back pull-out design (impeller, bracket and motor can be extracted without disconnecting the pump body from the piping).
- Closed impeller made of AISI316L stainless steel, laser-technology welded (for sizes 25, 32, 40, 50, 65-160/75, 65-160/110A) or AISI CF8M cast stainless steel.
- Mechanical seal according to EN12756 (ex DIN 24960).
- AISI 316L stainless steel fill & drain plugs.

Motor-pump coupling

There are three different types of motor-pump coupling:

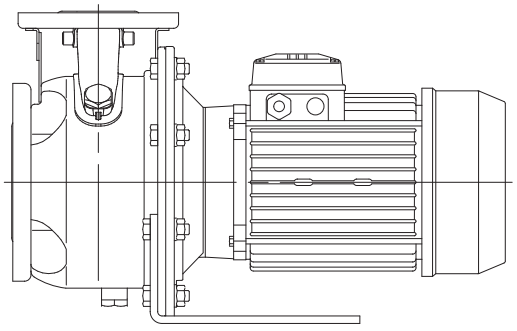
- **XN** close-coupled by means of a bracket with impeller keyed directly to the motor shaft extension.
- **XNS** with a bracket, adaptor and rigid coupling keyed to the standard motor shaft extension.
- **XNF** with bracket, support, flexible coupling, and aligning and anchoring base.
- A bare shaft pump version and version with spacer coupling are also available.

Accessories on request

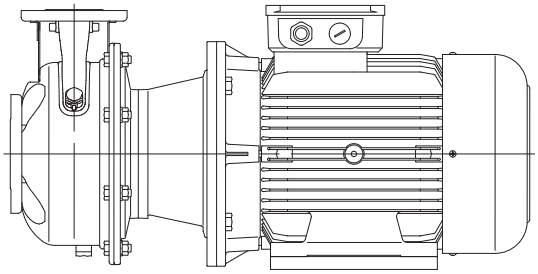
- AISI 316 stainless steel or galvanized iron counter-flanges.
- Intermediate flange with pressure gauge connection.
- Pump and motor shims.

Optional features

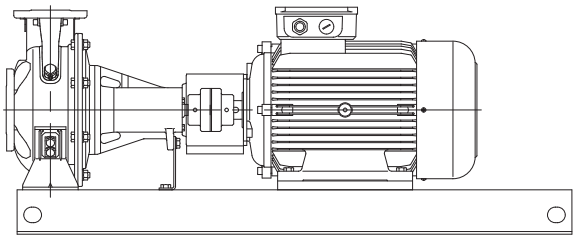
- Different voltages and frequencies.
- Special materials for the mechanical seal and gaskets.
- Version with internal recirculation of pumped liquid to mechanical seal.
- Version with rotation locking system seal.
- The version with a cooling system outside the mechanical closing.
- Tropicalized motors.
- Version with Hydrovar® control system.
- **XNF** with flexible coupling with spacer.



XN - XN4



XNS - XNS4



XNF - XNF4

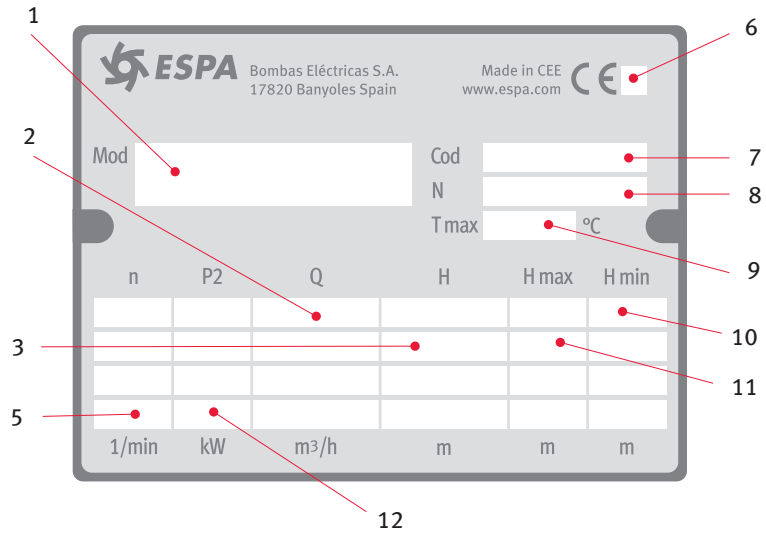
Identification data XN

XN E 4 32 200 / 40 6 A

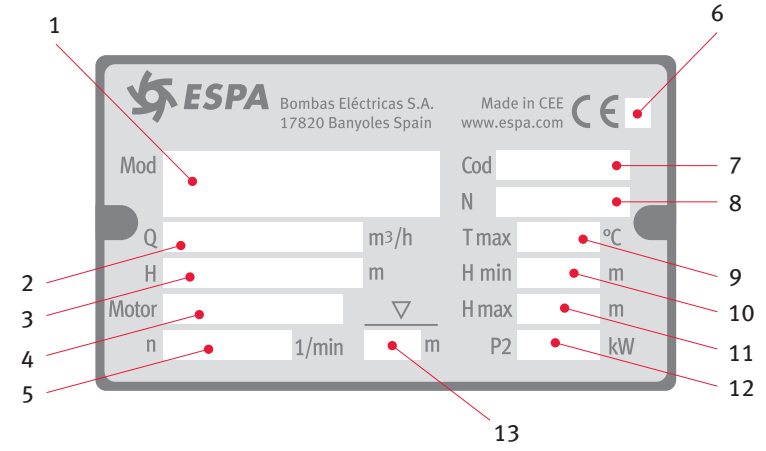
- A — Reduced impeller
- 6 — 6 = 60 Hz
- 40 — Rated motor power (kW x 10)
- 200 — Impeller nominal diameter (mm)
- 32 — Discharge port nominal diameter (mm)
- 4 — □ = 2 poles motor; 4 = 4 poles motor
- E — E = close-coupled version; S = version with rigid coupling, IEC standard motor; F = version with flexible coupling, base according to EN 733
- XN — XN series name

Nominal data

Pump plate



Electropump plate



Legend

- 1. Electropump type
- 2. Flow range
- 3. Height range
- 4. Type of motor
- 5.Speed
- 6. Year of manufacture
- 7. Code
- 8. Serial number
- 9. Maximum operating temperature
- 10. Minimum height
- 11. Maximum height
- 12. Nominal rating
- 13. Depth

2 Poles

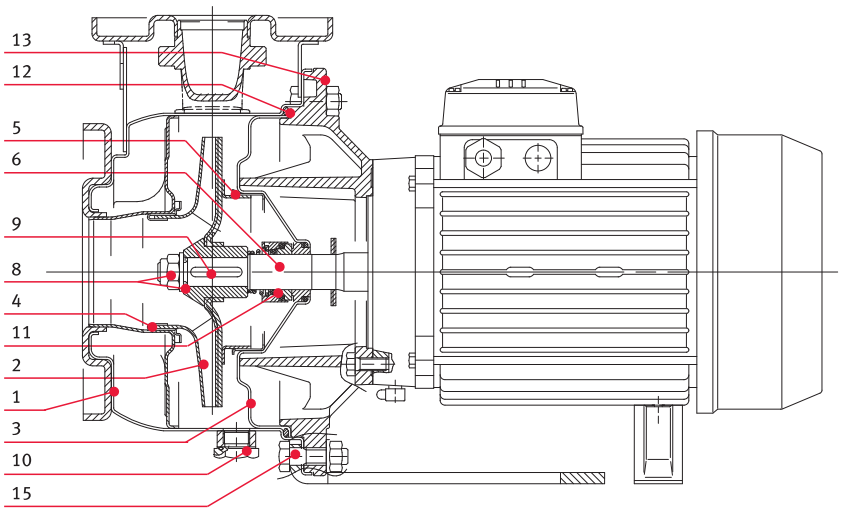
SIZE	kW	XNM	XN	XNS	XNF
25 125/07	0.75	•	•	•	•
25 125/11	1.1	•	•	•	•
25 160/15	1.5	•	•	•	•
25 160/22	2.2	•	•	•	•
25 200/30	3		•	•	•
25 200/40	4		•	•	•
25 250/55	5.5		•	•	•
25 250/75	7.5		•	•	•
25 250/110	11		•	•	•
32 125/07	0.75	•	•	•	•
32 125/11	1.1	•	•	•	•
32 160/15	1.5	•	•	•	•
32 160/22	2.2	•	•	•	•
32 200/30	3		•	•	•
32 200/40	4		•	•	•
32 250/55	5.5		•	•	•
32 250/75	7.5		•	•	•
32 250/110	11		•	•	•
40 125/11	1.1	•	•	•	•
40 125/15	1.5	•	•	•	•
40 125/22	2.2	•	•	•	•
40 160/30	3		•	•	•
40 160/40	4		•	•	•
40 200/55	5.5		•	•	•
40 200/75	7.5		•	•	•
40 250/92	9.2		•		
40 250/110A	11			•	•
40 250/110	11		•	•	•
40 250/150	15		•	•	•
50 125/22	2.2	•	•	•	•
50 125/30	3		•	•	•
50 125/40	4		•	•	•
50 160/55	5.5		•	•	•
50 160/75	7.5		•	•	•
50 200/92	9.2		•		
50 200/110A	11			•	•
50 200/110	11		•	•	•
50 250/150	15		•	•	•
50 250/185	18.5		•	•	•
50 250/220	22		•	•	•
65 160/40	4		•	•	•
65 160/55	5.5		•	•	•
65 160/75	7.5		•	•	•
65 160/92	9.2		•		
65 160/110A	11			•	•
65 160/110	11		•	•	•
65 200/150	15		•	•	•
65 200/185	18.5		•	•	•
65 200/220	22		•	•	•
65 250/300	30			•	•
65 250/370	37			•	•
80 160/110	11		•	•	•
80 160/150	15		•	•	•
80 160/185	18.5		•	•	•
80 200/220	22		•	•	•
80 200/300	30			•	•
80 200/370	37			•	•
80 250/450	45				•
80 250/550	55				•
80 250/750	75				•

4 Poles

SIZE	kW	XN4	XN	XNS
25 125/02A	0.25	•		•
25 125/02	0.25	•		•
25 160/02	0.25	•		•
25 160/03	0.37	•		•
25 200/03	0.37	•		•
25 200/05	0.55	•		•
25 250/07	0.75	•	•	•
25 250/11	1.1	•	•	•
25 250/15	1.5	•	•	•
32 125/02A	0.25	•		•
32 125/02	0.25	•		•
32 160/02	0.25	•		•
32 160/03	0.37	•		•
32 200/03	0.37	•		•
32 200/05	0.55	•		•
32 250/07	0.75	•	•	•
32 250/11	1.1	•	•	•
32 250/15	1.5	•	•	•
40 125/02A	0.25	•		•
40 125/02	0.25	•		•
40 125/03	0.37	•		•
40 160/03	0.37	•		•
40 160/05	0.5	•		•
40 200/07	0.75	•	•	•
40 200/11	1.1	•	•	•
40 250/11	1.1	•	•	•
40 250/15	1.5	•	•	•
40 250/22	2.2	•	•	•
50 125/03A	0.37	•		•
50 125/03	0.37	•		•
50 125/05	0.5	•		•
50 160/07	0.75	•	•	•
50 160/11	1.1	•	•	•
50 200/11	1.1	•	•	•
50 200/15	1.5	•	•	•
50 250/22A	2.2	•	•	•
50 250/22	2.2	•	•	•
50 250/30	3	•	•	•
65 160/05	0.5	•	•	•
65 160/07	0.75	•	•	•
65 160/11A	1.1	•	•	•
65 160/11	1.1	•	•	•
65 160/15	1.5	•	•	•
65 200/15	1.5	•	•	•
65 200/22	2.2	•	•	•
65 200/30	3	•	•	•
65 250/40	4	•	•	•
65 250/55	5.5	•	•	•
80 160/15	1.5	•	•	•
80 160/22A	2.2	•	•	•
80 160/22	2.2	•	•	•
80 200/30	3	•	•	•
80 200/40	4	•	•	•
80 250/55	5.5	•	•	•
80 250/75	7.5	•	•	•
80 250/92	9.2	•	•	

• Available

XN - XN4 Series



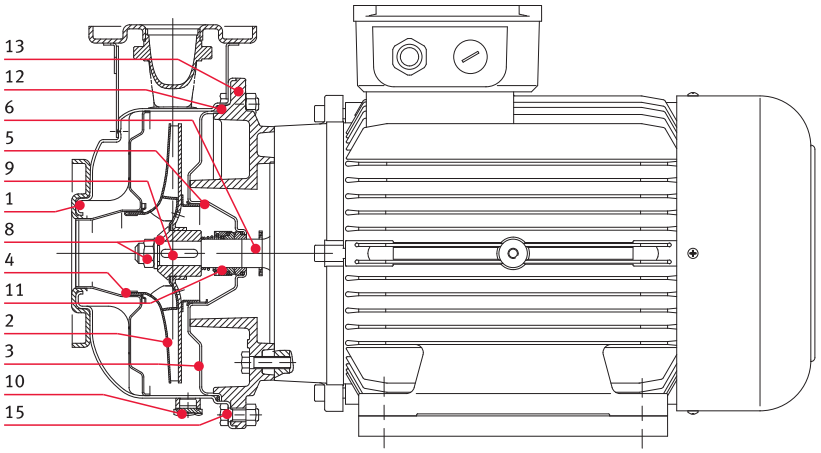
2 POLES VERSION	
XN25 125/07	XN40 125/22
XN25 125/11	XN40 160/30
XN25 160/15	XN40 160/40
XN25 160/22	XN40 200/55
XN25 200/30	XN40 200/75
XN25 200/40	XN40 250/92
XN25 250/55	XN40 250/110
XN25 250/75	XN50 125/22
XN25 250/110	XN50 125/30
XN32 125/07	XN50 125/40
XN32 125/11	XN50 160/55
XN32 160/15	XN50 160/75
XN32 160/22	XN50 200/92
XN32 200/30	XN50 200/110
XN32 200/40	XN50 160/40
XN32 250/55	XN50 160/55
XN32 250/75	XN50 160/75
XN32 250/110	XN50 160/92
XN40 125/11	XN50 160/110
XN40 125/15	XN80 160/110

4 POLES VERSION	
XN4 25 200/05	XN4 50 250/22
XN4 25 250/07	XN4 50 250/30
XN4 25 250/11	XN4 65 160/05
XN4 25 250/15	XN4 65 160/07
XN4 32 200/05	XN4 65 160/11A
XN4 32 250/07	XN4 65 160/11
XN4 32 250/11	XN4 65 160/15
XN4 32 250/15	XN4 65 200/15
XN4 40 160/05	XN4 65 200/22
XN4 40 200/07	XN4 65 200/30
XN4 40 200/11	XN4 65 250/40
XN4 40 250/11	XN4 65 250/55
XN4 40 250/15	XN4 80 160/15
XN4 40 250/22	XN4 80 160/22A
XN4 50 125/05	XN4 80 160/22
XN4 50 160/07	XN4 80 200/30
XN4 50 160/11	XN4 80 200/40
XN4 50 200/11	XN4 80 250/55
XN4 50 200/15	XN4 80 250/75
XN4 50 250/22A	XN4 80 250/92

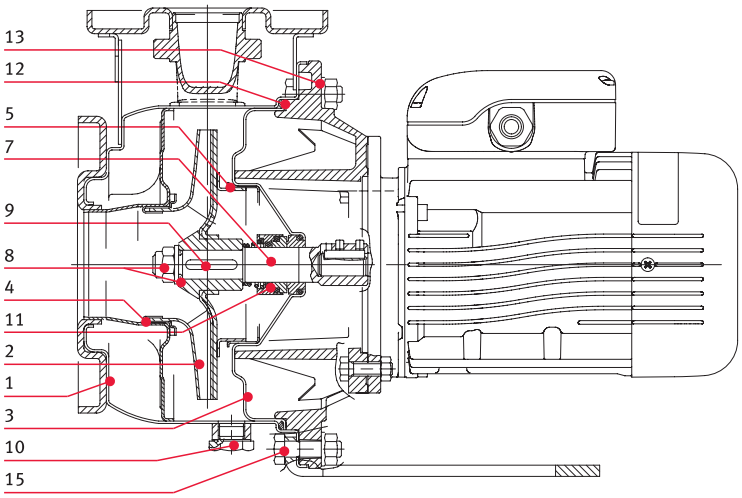
REF No	DESCRIPTION	MATERIAL	REF. STANDARDS EUROPA	REF. STANDARDS USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65 (160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65 (200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AlSi1 1Cu2 (Fe) (AC46100)	
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4 poles, 25/32/40-160 2/4 poles, 25/32/40-200 2/4 poles versions

XN - XN4 Series



2 POLES VERSION
XN40 250/150
XN50 250/150
XN50 250/185
XN50 250/220
XN65 200/150
XN65 200/185
XN65 200/220
XN80 160/150
XN80 160/185
XN80 200/220

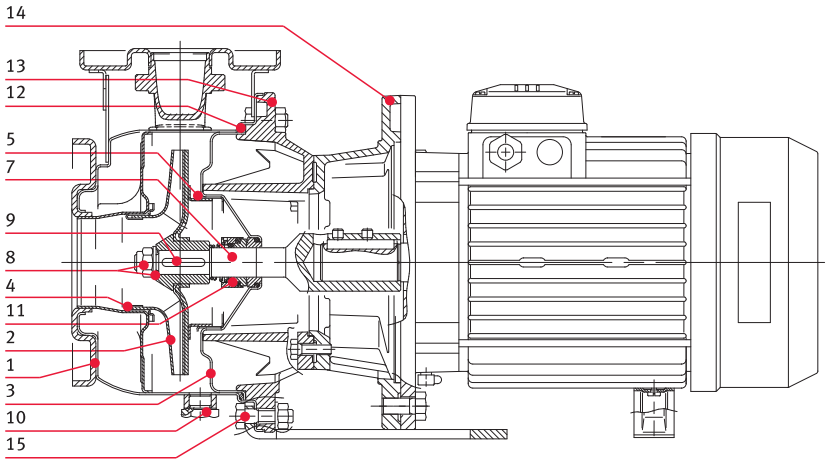


4 POLES VERSION
XN4 25 125/02A
XN4 25 125/02
XN4 25 160/02
XN4 25 160/03
XN4 25 200/03
XN4 32 125/02A
XN4 32 125/02
XN4 32 160/02
XN4 32 160/03
XN4 32 200/03
XN4 40 125/02A
XN4 40 125/02
XN4 40 125/03
XN4 40 160/03
XN4 50 125/03A
XN4 50 125/03

REF No	DESCRIPTION	MATERIAL	REF. STANDARDS EUROPA	REF. STANDARDS USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65 (160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65 (200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AlSi1 1Cu2 (Fe) (AC46100)	
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4 poles, 25/32/40-160 2/4 poles, 25/32/40-200 2/4 poles versions

XNS - XNS4 Series



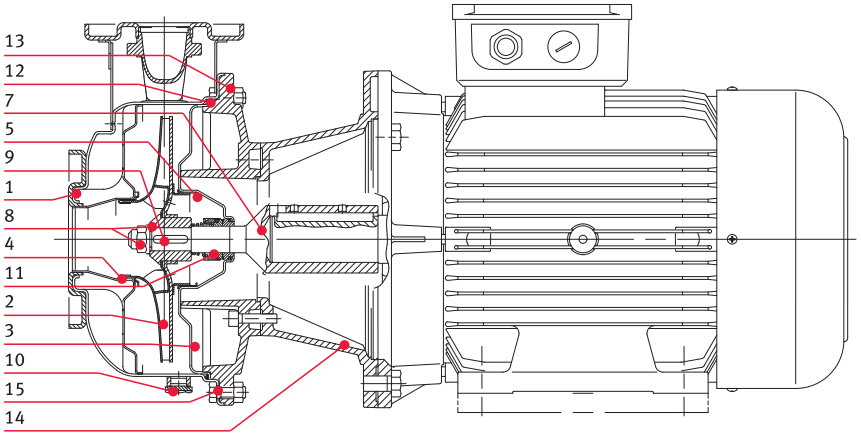
2 POLES VERSION	
XNS25 125/07	XNS40 125/22
XNS25 125/11	XNS40 160/30
XNS25 160/15	XNS40 160/40
XNS25 160/22	XNS40 200/55
XNS25 200/30	XNS40 200/75
XNS25 200/40	XNS50 125/22
XNS25 250/55	XNS50 125/30
XNS25 250/75	XNS50 125/40
XNS32 125/07	XNS50 160/55
XNS32 125/11	XNS50 160/75
XNS32 160/15	XNS65 160/40
XNS32 160/22	XNS65 160/55
XNS32 200/30	XNS65 160/75
XNS32 200/40	
XNS32 250/55	
XNS32 250/75	
XNS40 125/11	
XNS40 125/15	

4 POLES VERSION	
XNS4 25 250/07	XNS4 65 160/05
XNS4 25 250/11	XNS4 65 160/07
XNS4 25 250/15	XNS4 65 160/11A
XNS4 32 250/07	XNS4 65 160/11
XNS4 32 250/11	XNS4 65 160/15
XNS4 32 250/15	XNS4 65 200/15
XNS4 40 200/07	XNS4 65 200/22
XNS4 40 200/11	XNS4 65 200/30
XNS4 40 250/11	XNS4 65 250/40
XNS4 40 250/15	XNS4 65 250/55
XNS4 40 250/22	XNS4 80 160/15
XNS4 50 160/07	XNS4 80 160/22A
XNS4 50 160/11	XNS4 80 160/22
XNS4 50 200/11	XNS4 80 200/30
XNS4 50 200/15	XNS4 80 200/40
XNS4 50 250/22A	XNS4 80 250/55
XNS4 50 250/22	XNS4 80 250/75
XNS4 50 250/30	XNS4 80 250/92

REF No	DESCRIPTION	MATERIAL	REF. STANDARDS EUROPA	REF. STANDARDS USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65 (160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65 (200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AlSi1 1Cu2 (Fe) (AC46100)	
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Adapter-motor coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4 poles, 25/32/40-160 2/4 poles, 25/32/40-200 2/4 poles versions

XNS Series

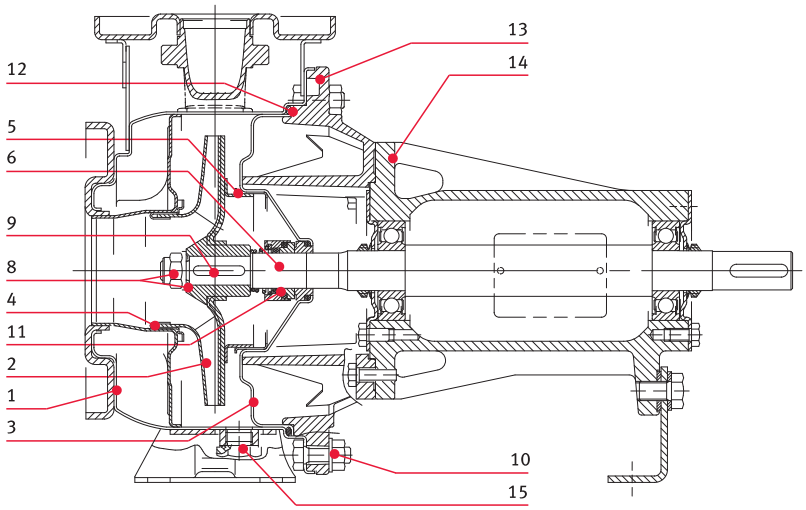


2 POLES VERSION
XNS25 250/110
XNS32 250/110
XNS40 250/110A
XNS40 250/110
XNS40 250/150
XNS50 200/110A
XNS50 200/110
XNS50 250/150
XNS50 250/185
XNS50 250/220
XNS65 160/110A
XNS65 160/110
XNS65 200/150
XNS65 200/185
XNS65 200/220
XNS65 250/300
XNS65 250/370
XNS80 160/110
XNS80 160/150
XNS80 160/185
XNS80 200/220
XNS80 200/300
XNS80 200/370

REF No	DESCRIPTION	MATERIAL	REF. STANDARDS EUROPA	REF. STANDARDS. USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65 (160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65 (200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (caste AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
7	Rigid shaft coupling	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AlSi1 1Cu2 (Fe) (AC46100)	
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Adapter-motor coupling	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4 poles, 25/32/40-160 2/4 poles, 25/32/40-200 2/4 poles versions

XNF bare shaft series



VERSION
XNF25 125
XNF25 160
XNF25 200
XNF25 250
XNF32 125
XNF32 160
XNF32 200
XNF32 250
XNF40 125
XNF40 160
XNF40 200
XNF40 250
XNF50 125
XNF50 160
XNF50 200
XNF50 250
XNS65 160
XNS65 200
XNS65 250
XNS80 160
XNS80 200
XNS80 250

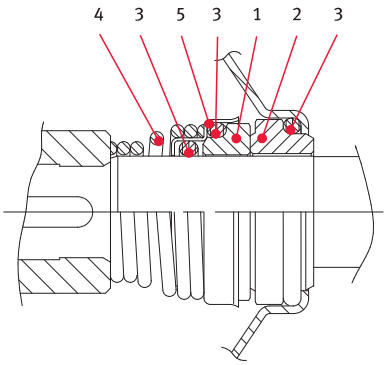
REF No	DESCRIPTION	MATERIAL	REF. STANDARDS EUROPA	REF. STANDARDS USA
1	Pump body	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
2	Impeller 25-32-40-50-65 (160)	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
	Impeller 65 (200-250)-80	Stainless steel	EN 10213-4-GX5CrNiMo19-11-2 (1.4408)	ASTM CF8M (cast AISI 316)
3	Seal housing	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
4	Wear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
5	Counterwear ring	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
6	Shaft extension	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
8	Impeller locknut and washer	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	Tab	Stainless steel	EN 10088-1-X2CrNiMo17-12-2 (1.4404)	AISI 316L
10	Fill/drain plugs	Stainless steel	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
11	Mechanical seal	Ceramic / Carbon / FPM (standard version)		
12	Elastomers	FPM (standard version)		
13	Adapter*	Aluminium	EN 1706-AC-AlSi1 1Cu2 (Fe) (AC46100)	
	Adapter	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
14	Transmission support body	Cast iron	EN 1561-GJL-200 (JL1030)	ASTM Class 25
15	Pump body fastening bolts & screws	Galvanized steel		

* For the 25/32/40-125 2/4 poles, 25/32/40-160 2/4 poles, 25/32/40-200 2/4 poles versions

XN mechanical seal according to EN 12756

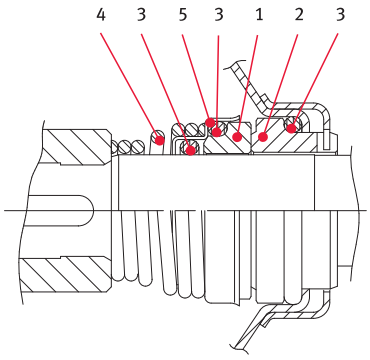
⇢ Mechanical seal with mounting dimensions according to EN 12756 (ex DIN 24960).

Fig. 1 (*)



* Standard version.

Fig. 2 (**)



** Version with fixed assembly anti-rotation lockpin.

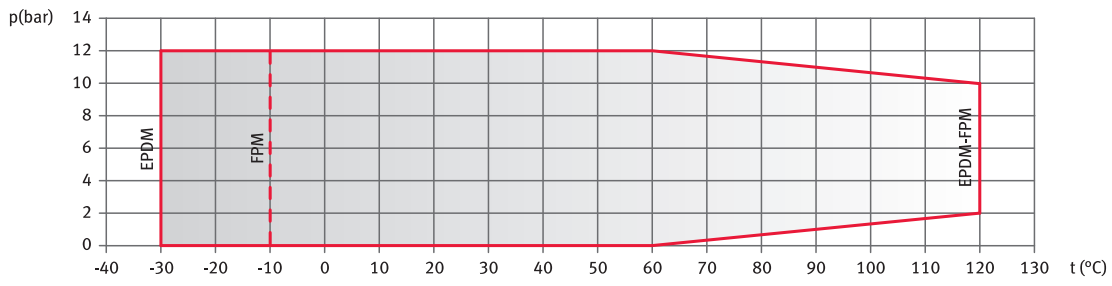
List of materials

POSITION 1-2	POSITION 3	POSITION 4-5
B : Resin impregnated carbon	E: EPDM	G: AISI 316
Q1: Silicon carbide	V: FPM	
V : Ceramic		

Seal types

TYPE	POSITION 1 ROTATING ASSEMBLY	POSITION 2 FIXED ASSEMBLY	POSITION 3 ELASTOMERS	POSITION 4 SPRINGS	POSITION 5 OTHER COMPONENTS	TEMPERATURE (° C)
STANDARD MECHANICAL SEAL						
V B V G G	V	B	V	G	G	-10 + 120
OTHER MECHANICAL SEAL TYPES						
Q_1 B V G G	Q_1	B	V	G	G	-10 + 120
Q_1 Q_1 V G G	Q_1	Q_1	V	G	G	-10 + 120
V B E G G	V	B	E	G	G	-30 + 120
Q_1 B E G G	Q_1	B	E	G	G	-30 + 120
Q_1 Q1 E G G	Q_1	Q_1	E	G	G	-30 + 120

Complete pump pressure / Temperature operating limits (with any of the seals listed above)



Motors

- Enclosed short circuit squirrel cage motor (TECF), with aluminium casing and external ventilation.
- The surface motors have efficiency values that fall within the range normally referred to as efficiency class 2.
- The motors are fan cooled according to EN 60034-6.
- The terminal box is made of aluminium.
- The cable gland has standard passage dimensions according to EN 50262 (metric thread).
- The standard protection is IP 55.
- Insulation class F.
- Standard voltage:
  Single-phase version: 220-240 V 50 Hz with built-in automatic reset overload protection up to 1,5 kW.
  Three-phase version: 220-240/380-415 V 50 Hz for powers up to 4 kW. 380-415/660-690 V 50 Hz for powers above 4 kW, overload protection to be provided by the user.

XN series, single-phase 50 Hz, 2 poles motors

MOTOR TYPE			INPUT CURRENT	CAPACITOR		DATA FOR 230 V 50 Hz VOLTAGE					
kW	SIZE IEC	CONSTRUCTION DESIGN	In (A) 220-240 V	F	V	rpm	Is/In	η %	cosφ	Cn Nm	Cs/Cn
0.75	90	B14	5.02-5.39	30	450	2875	5.10	70.6	0.91	2.49	0.71
1.1	90	B14	7.07-6.81	30	450	2800	3.80	73.8	0.95	3.75	0.47
1.5	90	B14	9.32-8.63	40	450	2780	3.45	75.5	0.97	5.15	0.47
2.2	90	B14	13.3-12.6	50	450	2785	3.45	76.9	0.97	7.54	0.36

XN series, three-phase 50 Hz, 2 poles motors

MOTOR TYPE			INPUT CURRENT In (A) THREE-PHASE				DATA FOR DE 400 V 50 Hz VOLTAGE					
kW	SIZE IEC	CONSTRUCTION DESIGN	Δ 220-240 V	Y 380-415 V	Δ 380-415 V	Y 660-690 V	rpm	Is/In	η %	cosφ	Cn Nm	Cs/Cn
0.75	80	B14	3.72	2.15			2915	8.23	77.7	0.65	2.45	5.2
1.1	80	B14	4.52	2.61			2875	6.78	78.9	0.77	3.65	3.49
1.5	90	B14	5.98	3.45			2875	7.04	80.1	0.78	4.98	3.83
2.2	90	B14	8.71	5.03			2860	7.32	81.1	0.78	7.34	4.12
3	100	B14	10.4	6.01			2860	6.38	84.3	0.85	10	2.77
4	112	B14			8.09	4.67	2890	7.7	85.3	0.84	13.2	2.8
5.5	132	B14			10.1	5.83	2900	9.62	87	0.9	18.1	3.91
7.5	132	B14			13.7	7.91	2900	9.73	88.1	0.9	24.7	3.99
9.2	132	B14			16.8	9.7	2930	9.15	89.7	0.88	30	4.31
11	160	B14			20	11.5	2925	8.98	89.7	0.88	35.9	3.43
15	160	B34			26.7	15.4	2940	8.72	89.7	0.9	48.7	3.49
18.5	160	B34			32.8	18.9	2945	9.49	90.7	0.9	60	3.27
22	180	B34			38.7	22.3	2940	9.16	91.3	0.9	71.4	3.2

XNS and XNF series, three-phase 50 Hz, 2 poles motors

MOTOR TYPE				INPUT CURRENT In (A) THREE-PHASE				DATA FOR 400 V 50 Hz VOLTAGE					
	SIZE	CONSTRUCION DESIGN		Δ	Y	Δ	Y					Cn	
kW	IEC	XNS	XNF	220-240 V	380-415 V	380-415 V	660-690 V	rpm	Is/In	η %	cosφ	Nm	Cs/Cn
0.75	80	B5		3.50	2.02			2855	5.81	74.3	0.72	2.51	3.76
0.75	80		B3	3.72	2.15			2915	8.23	77.7	0.65	2.45	5.2
1.1	80	B5	B3	4.52	2.61			2875	6.78	78.9	0.77	3.65	3.49
1.5	90	B5		5.98	3.45			2875	7.04	80.1	0.78	4.98	3.83
1.5	90		B3	5.42	3.13			2870	6.39	80,8	0.85	4.99	2.62
2.2	90	B5		8.71	5.03			2860	7.32	81.1	0.78	7.34	4.12
2.2	90		B3	7.81	4.51			2860	6.63	82.1	0.86	7.34	2.91
3	100	B5		10.4	6.01			2860	6.38	84.3	0.85	10	2.77
3	100		B3	10.4	6.01			2885	6.96	84.4	0.85	9.92	3.09
4	112	B5				8.09	4.67	2890	7.7	85.3	0.84	13.2	2.8
4	112		B3			7.43	4.29	2900	8.29	87	0.89	13.2	3.35
5.5	132	B5				10.1	5.83	2900	9.62	87	0.9	18.1	3.91
5.5	132		B3			10.3	5.95	2910	7.11	87.1	0.89	18	3.08
7.5	132	B5				13.7	7.91	2900	9.73	88.1	0.9	24.7	3.99
7.5	132		B3			13.9	8.03	2920	7.76	88.3	0.88	24.5	2.97
11	160	B35	B3			20.1	11.6	2935	7.58	88.5	0.89	35.8	2.91
15	160	B35	B3			26.7	15.4	2940	8.72	89.7	0.9	48.7	3.49
18.5	160	B35	B3			32.8	18.9	2945	9.49	90.7	0.9	60	3.27
22	180	B35				38.7	22.3	2940	9.16	91.3	0.9	71.4	3.2
22	180		B3			41.7	24.1	2930	7.1	90.8	0.84	72	2.5
30	200	B35	B3			54	31.2	2950	6.8	92.5	0.87	97	2.4
37	200	B35	B3			65	37.5	2950	7.2	92.9	0.88	120	2.5
45	225		B3			80	46	2960	6.7	92.9	0.88	145	2.4
55	250		B3			99	57	2955	6.7	93	0.87	178	2.4
75	280		B3			133	77	2960	6.8	93.8	0.87	242	2.3

XN series, three-phase 50 Hz, 4 poles motors

MOTOR TYPE			INPUT CURRENT In (A) THREE-PHASE				DATA FOR 400 V 50 Hz VOLTAGE					
	SIZE	CONSTRUCTION	Δ	Y	Δ	Y					Cn	
kW	IEC	DESIGN	220-240 V	380-415 V	380-415 V	660-690 V	rpm	Is/In	η %	cosφ	Nm	Cs/Cn
0.25	71	B5	1.71	0.99			1390	3.58	62	0.59	1.71	3.16
0.37	71	B5	2.53	1.46			1370	3.39	61.4	0.6	2.57	3.4
0.55	80	B14	3.03	1.75			1390	3.95	68.2	0.67	3.77	2.45
0.75	80	B5	4.04	2.33			1395	4.06	70.1	0.66	5.13	2.73
1.1	90	B5	4.42	2.55			1415	4.48	78.2	0.8	7.42	2.14
1.5	90	B5	5.84	3.37			1415	5.1	81	0.79	10.1	2.43
2.2	100	B5	8.16	4.71			1420	5.52	83.1	0.81	14.8	2.36
3	100	B5	11.1	6.38			1425	6.13	84.1	0.81	20.1	2.69
4	112	B5			8.39	4.84	1440	6.47	85.5	0.81	26.5	2.69
5.5	132	B14			11.4	6.58	1450	5.71	87.2	0.8	36.2	2.56
7.5	132	B14			15.3	8.83	1445	6.14	88	0.81	49.5	2.93
9.2	132	B14			18.5	10.7	1445	6.14	88.2	0.81	60.7	2.88

XNS and XNF series, three-phase 50 Hz, 4 poles motors

MOTOR TYPE				INPUT CURRENT In (A) THREE-PHASE				DATA FOR 400 V 50 Hz VOLTAGE					
	SIZE	CONSTRUCTION DESIGN		Δ	Y	Δ	Y					Cn	
kW	IEC	FNS	FNF	220-240 V	380-415 V	380-415 V	660-690 V	rpm	Is/In	η %	cosφ	Nm	Cs/Cn
0.25	71			1.71	0.99			1390	3.58	62	0.59	1.71	3.16
0.37	71			2.53	1.46			1370	3.39	61.4	0.6	2.57	3.4
0.55	80	B5	B3	3.03	1.75			1390	3.95	68.2	0.67	3.77	2.45
0.75	80	B5	B3	4.04	2.33			1395	4.06	70.1	0.66	5.13	2.73
1.1	90	B5	B3	4.42	2.55			1415	4.48	78.2	0.8	7.42	2.14
1.5	90	B5	B3	5.84	3.37			1415	5.1	81	0.79	10.1	2.43
2.2	100	B5	B3	8.16	4.71			1420	5.52	83.1	0.81	14.8	2.36
3	100	B5	B3	11.1	6.38			1425	6.13	84.1	0.81	20.1	2.69
4	112	B5	B3			8.39	4.84	1440	6.47	85.5	0.81	26.5	2.69-
5.5	132	B5	B3			11.4	6.58	1450	5.71	87.2	0.8	36.2	2.56
7.5	132	B5	B3			15.3	8.83	1445	6.14	88	0.81	49.5	2.93
9.2	132	B5	B3			18.5	10.7	1445	6.14	88.2	0.81	60.7	2.88

Motor noise

- The tables below show the mean sound pressure levels (Lp) measured at 1 meter's distance in a free field according to the A curve (ISO standard 1680).
- The noise values are measured with idling 50 Hz motor with a tolerance of 3 dB (A).

XN and XNS 50 Hz, 2 poles motor noise

POWER kW	MOTOR TYPE SIZE IEC	NOISE LpA dB
0.75	90	‹70
1.1	90	‹70
1.5	90	‹70
2.2	90	‹70
3	90	‹70
4	112	‹70
5.5	112	‹70
7.5	112	‹70
9.2	132	73
11	132	73
15	160	75
18.5	160	75
22	160	75
30	200	80
37	200	80

XNF 50 Hz, 2 poles motor noise

POWER kW	MOTOR TYPE SIZE IEC	NOISE LpA dB
0.75	80	‹70
1.1	80	‹70
1.5	90	‹70
2.2	90	‹70
3	100	‹70
4	112	‹70
5.5	132	73
7.5	132	73
11	160	75
15	160	75
18.5	160	75
22	180	78
30	200	80
37	200	80
45	225	84
55	250	84
75	280	84

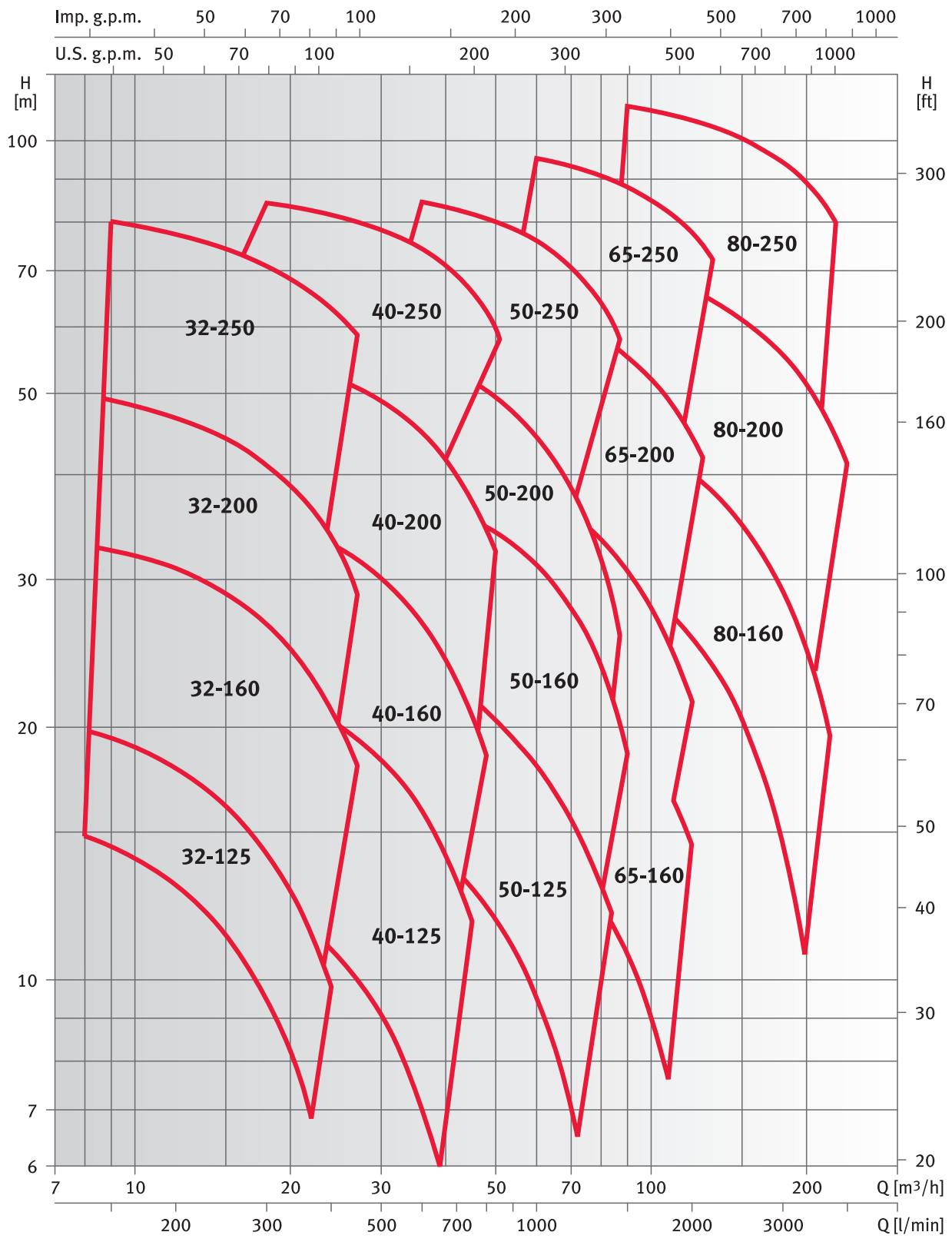
XN4 and XNS4 50 Hz, 4 poles motor noise

POWER kW	MOTOR TYPE SIZE IEC	NOISE LpA dB
0.25	71	‹70
0.37	71	‹70
0.55	90	‹70
0.75	90	‹70
1.1	90	‹70
1.5	90	‹70
2.2	100	‹70
3	100	‹70
4	112	‹70
5.5	132	‹70
7.5	132	‹70
9.2	132	‹70

XNF 50 Hz, 4 poles motor noise

POWER kW	MOTOR TYPE SIZE IEC	NOISE LpA dB
0.25	71	‹70
0.37	71	‹70
0.55	80	‹70
0.75	80	‹70
1.1	90	‹70
1.5	90	‹70
2.2	100	‹70
3	100	‹70
4	112	‹70
5.5	132	‹70
7.5	132	‹70

XN, XNS and XNF series



The performance is valid for liquids with a density of ρ = 1,0 kg/dm3 and a kinematic viscosity of υ = 1mm2/s.

XN, 2XN, XNS and XNF series

PUMP	P2		l/min	0	150	200	250	300	400	450	600	700	800
TYPE	kW	HP	m³/h	0	9	12	15	18	24	27	36	42	48
25 125/07*	0.75	1		17.3	14.2	12.5	10.5	8.4					
25 125/11*	1.1	1.5		22.3	18.9	17	14.7	12.3					
25 160/15*	1.5	2		27.7	24.8	22.9	20.5	17.9	11.9				
25 160/22*	2.2	3		34.6	31.5	29.4	27	24.2	17.7				
25 200/30	3	4		44.9	39.2	36.7	33.8	30.4	22.4				
25 200/40	4	5.5		54.5	49.4	46.8	43.8	40.3	31.9	27			
25 250/55	5.5	7.5		61.4	55.8	53.2	50.3	47	39.2				
25 250/75	7.5	10		75.9	69.3	66.5	63.2	59.6	51.1				
25 250/110	11	15		87.5	81.5	78.7	75.4	71.8	63.3	58.4			
32 125/07*	0.75	1		16.6	14.4	13	11.3	9.5					
32 125/11*	1.1	1.5		21.6	19.4	17.8	16.2	14.2	9.8				
32 160/15*	1.5	2		27.6	24.6	22.7	20.6	18.1	12.7				
32 160/22*	2.2	3		35	32.5	31	29	26.6	21	18			
32 200/30	3	4		43.7	38.5	36	33	30	22.3				
32 200/40	4	5.5		53.5	49	46.8	44	41	33.8	28.8			
32 250/55	5.5	7.5		61.7	56.7	54.2	51.2	47.9	401				
32 250/75	7.5	10		74.1	68.9	66.2	63	60	52.2				
32 250/110	11	15		86.2	80.1	77.5	74.3	71	63.3	58.7			
40 125/11*	1.1	1.5		14.4				12.5	10.9	10	7		
40 125/15*	1.5	2		17.5				16	14.4	13.4	10.2	8	
40 125/22*	2.2	3		25.3				22.2	20.4	19.5	15.9	13.2	
40 160/30	3	4		32.2				29.5	26.9	25.4	20.8	17	
40 160/40	4	5.5		38				35.5	33.2	31.7	26.7	22.8	18.5
40 200/55	5.5	7.5		49.1				46.4	43.8	42	36.2	31	25
40 200/75	7.5	10		58.2				55.1	52.3	50.8	45	40	34.5
40 250/**	**	**		64.9				62	59.5	58	51.5	44.6	
40 250/110	11	15		74.7				71.4	69	67.8	61.5	55.2	
40 250/150	15	20		87.7				84.2	81.5	80	74.3	69.2	62.5

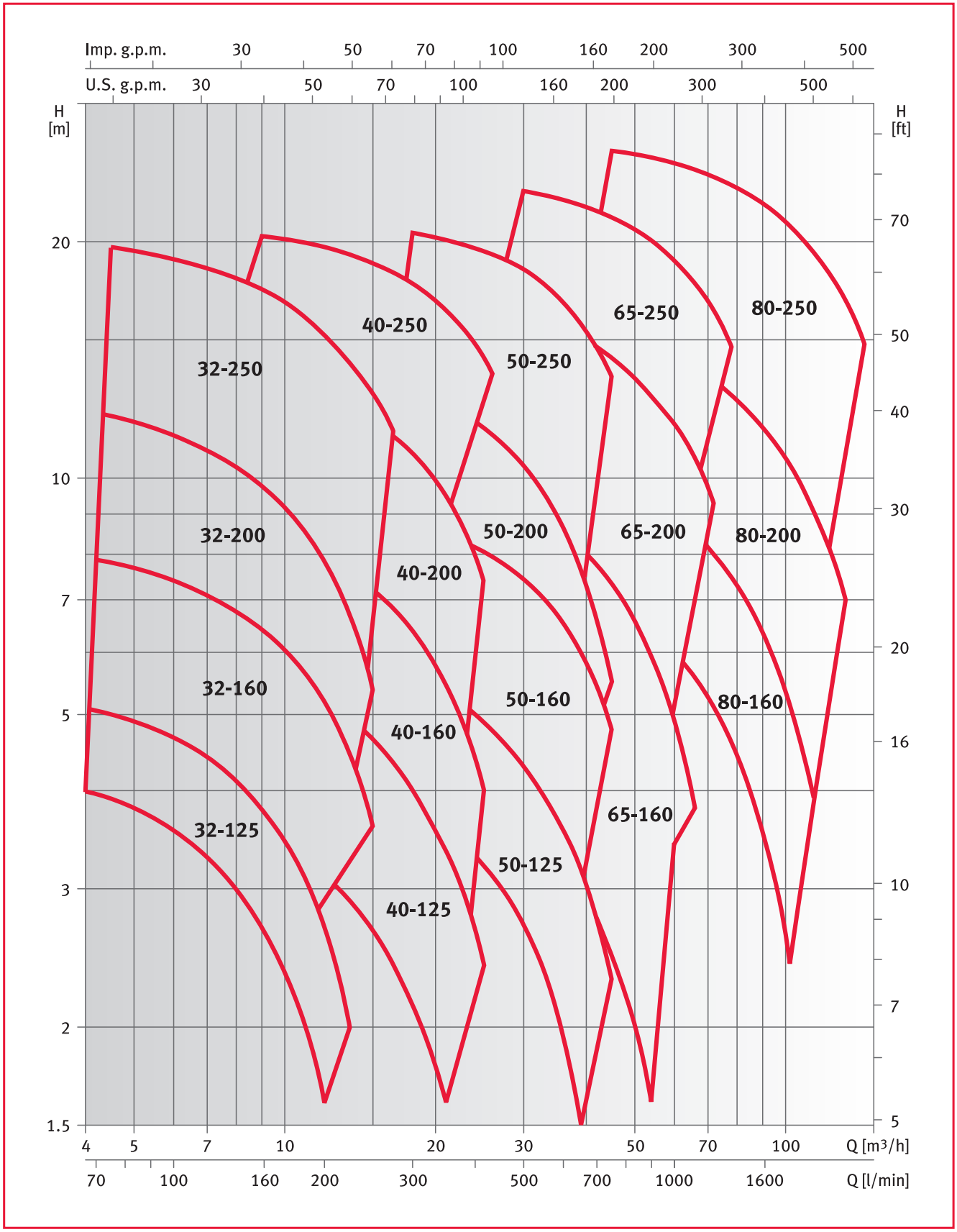
* A single-phase version (XNM) is also available
** /92 = 9.2 kW - 12.5 HP XN series and ** /110 = 11 kW - 15 HP XNS series
Performance based on the ISO 9906 standard - Annexe A

XN, 2XN, XNS and XNF series

PUMP	P2		l/min	0	600	700	800	900	1000	1200	1500	1800	2000	2500	3150	3700
TYPE	kW	HP	m³/h	0	36	42	48	54	60	72	90	108	120	150	189	222
50 125/22*	2.2	3		17.2	14.6	13.4	12.2	11	9.5	6.5						
50 125/30	3	4		21.7	18.8	17.5	16.3	14.8	13.4	10.5						
50 125/40	4	5.5		25.7	23.3	22.2	20.8	19.3	18	15						
50 160/55	5.5	7.5		34.1	30.6	29.2	27.6	28	26.6	19.8						
50 160/75	7.5	10		40.8	37.5	36.2	34.8	25.8	24	27	18.6					
50 200/**	**	**		53	47.5	45.3	42.8	40	36.8	29.8						
50 200/110	11	15		60.1	55	52.8	50.3	47.5	44.3	37.5						
50 250/150	15	20		70.2	66.6	65	63.3	61	58.3	51						
50 250/185	18.5	25		80	75	73.2	71.4	69	66.3	59.5						
50 250/220	22	30		88.9	84.6	82.8	80.7	78.5	75.8	69.5						
65 160/40	4	5.5		19.6			16.8	16	15.2	13.5	10.8	7.6				
65 160/55	5.5	7.5		24.2			21.4	20.7	19.8	18	15.2	11.8				
65 160/75	7.5	10		28.2			26	25.3	24.7	23	20	16.8	14,5			
65 160/**	**	**		38.2			35.4	34.3	33	30	25.5	20				
65 160/110	11	15		43.2			40.8	39.8	38.5	35.5	30.6	25.4	21.4			
65 200/150	15	20		53				48.8	47.5	44.3	38.5	32				
65 200/185	18.5	25		60.2				56.5	55.3	52	47	40	35.4			
65 200/220	22	30		68				64.4	63.3	60	55	49	44.5			
65 250/300	30	40		84.3					81.7	79.5	75	69	64			
65 250/370	37	50		98					95.3	93	88	82.5	78			
80 160/110	11	15		33.6						31.9	30	27.5	25.5	20.5	12.5	
80 160/150	15	20		40.3						38.8	37	34.5	33	27.5	20	
80 160/185	18.5	25		47.2						45.7	44	41.5	40	35	27.5	19.5
80 200/220	22	30		53							49.8	47.5	46	41	33.5	
80 200/300	30	40		63.6							61.2	59	57	52	44	36.5
80 200/370	37	50		71.4							69.5	67.5	66	61	53.5	46
80 250/450***	45	60		83.5							80.5	78	76	70	61	
80 250/550***	55	75		95.7							93.6	91	89	83.5	75	64.6
80 250/750***	75	100		112							110	108	106	101	92	82

* A single-phase version (XNM) is also available
** /92 = 9.2 kW - 12.5 HP XN series and ** /110 = 11 kW - 15 HP XNS series
Performance based on the ISO 9906 standard - Annexe A

XN4, XNS4 and XNF4 series



The performance is valid for liquids with a density of ρ = 1,0 kg/dm3 and a kinematic viscosity of υ = 1mm2/s.

XN4, XNS4 and XNF4 series

PUMP	P2		l/min	0	75	100	125	150	200	250	300	350	400
TYPE	kW	HP	m³/h	0	4.5	6	7.5	9	12	15	18	21	24
25 125/02A*	0.25	0.33		4.4	3.8	3.4	2.9	2.4					
25 125/02*	0.25	0.33		5.6	4.8	4.3	3.8	3.2					
25 160/02*	0.25	0.33		6.9	6.1	5.6	5.1	4.4	2.9				
25 160/03*	0.37	0.5		8.6	7.8	7.2	6.6	5.9	4.3				
25 200/03*	0.37	0.5		11	9.4	8.7	8	7.1	5.1				
25 200/05*	0.55	0.75		13.4	12	11.3	10.5	9.6	7.5				
25 250/07	0.75	1		14.9	13.3	12.6	11.9	11	9	6.7			
25 250/11	1.1	1.5		18.8	17.1	16.3	15.5	14.6	12.4	9.9			
25 250/15	1.5	2		21.5	19.9	19.1	18.3	17.3	15.1	12.6			
32 125/02A*	0.25	0.33		4.4		4	3.1	2.7	1.6				
32 125/02*	0.25	0.33		5.5		4.7	4.3	3.8	2.7				
32 160/02*	0.25	0.33		6.9		5.4	4.9	4.4	2.9				
32 160/03*	0.37	0.5		8.6		7.4	6.9	6.4	5.2	3.6			
32 200/03*	0.37	0.5		10.8		8.7	7.9	7	5.1				
32 200/05*	0.55	0.75		13.2		11.3	10.6	9.8	7.8	5.4			
32 250/07	0.75	1		14.5		12.3	11.6	10.8	8.9	6.5			
32 250/11	1.1	1.5		18.4		16.1	15.3	14.4	12.5	10.1			
32 250/15	1.5	2		21.3		19	18.2	17.5	15.2	12.8			
40 125/02A*	0.25	0.33		3.5				3	2.7	2.3	1.8	1.3	
40 125/02*	0.25	0.33		5.4				4.8	4.4	3.9	3.3	2.7	2
40 125/03*	0.37	0.5		6.3				5.7	5.2	4.7	4	3.3	2.7
40 160/03*	0.37	0.5		8				7.2	6.6	5.9	5.2	4	3.1
40 160/05*	0.55	0.75		9.2				8.5	7.9	7.2	6.4	5.4	4.4
40 200/07	0.75	1		11.9				11.2	10.5	9.7	8.6	7.3	5.8
40 200/11	1.1	1.5		14.2				13.3	12.7	11.8	10.8	9.5	8
40 250/11	1.1	1.5		15.7				15	14	13	11.9	10.3	
40 250/15	1.5	2		18.1				17	16.3	15.6	14.5	13	11.4
40 250/22	2.2	3		21.5				2.3	19.7	18.8	17.7	16.3	14.8

* XNS4 version not available
Performance based on the ISO 9906 standard - Annexe A

XN4, XNS4 and XNF4 series

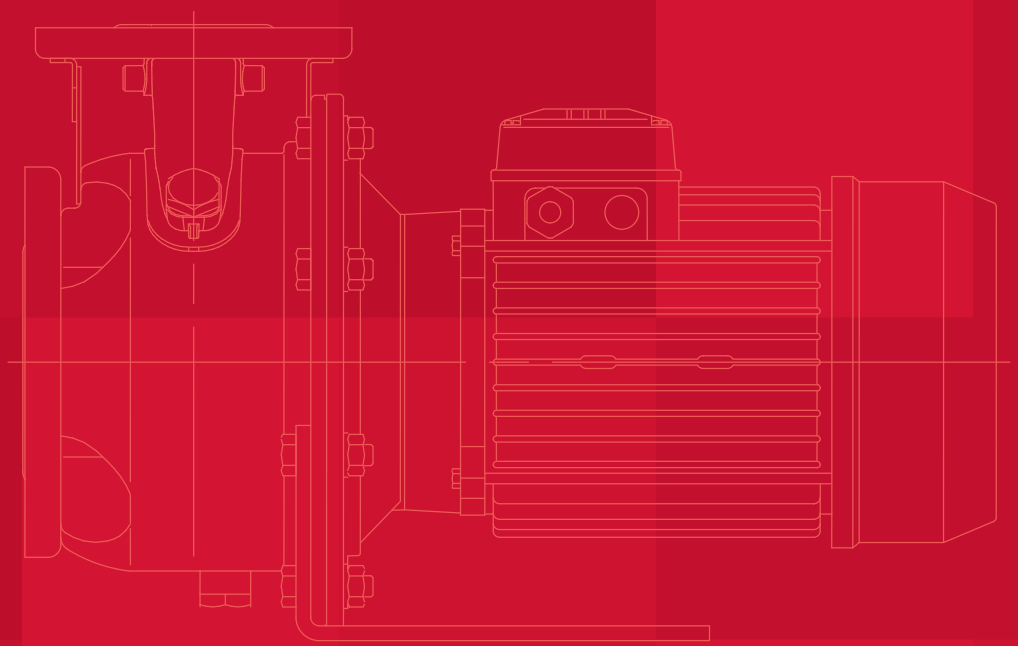
PUMP	P2		l/min	0	300	350	400	450	500	600	750	1000	1200	1800	2000	2200
TYPE	kW	HP	m³/h	0	18	21	24	27	30	36	45	60	72	108	120	132
50 125/03A*	0.37	0.5		4.4	3.8	3.6	3.3	3	2.7	1.9						
50 125/03*	0.37	0.5		5.4	4.6	4.3	4	3.7	3.3	2.6						
50 125/05*	0.55	0.75		6.4	5.6	5.3	5	4.7	4.3	3.6	2.3					
50 160/07	0.75	1		8.2	7.3	7	6.7	6.3	5.8	5						
50 160/11	1.1	1.5		9.9	8.8	8.5	8.2	7.8	7.5	6.5	4.8					
50 200/11	1.1	1.5		12.8	11.2	10.7	10	9.3	8.6	6.8						
50 200/15	1.5	2		14.7	13	12.4	11.8	11.2	10.3	8.7	5.5					
50 250/22A	2.2	3		17.5	16	15.5	15	14.3	13.8	12						
50 250/22	2.2	3		19.4	17.8	17.3	16.8	16.2	15.4	13.8						
50 250/30	3	4		21.9	20.5	20.2	19.6	19	18.4	16.7	13.5					
65 160/05	0.55	0.75		5.4			4.2	3.9	3.7	3.2	2.5					
65 160/07	0.75	1		6.4			5.3	5.1	4.8	4.4	3.6					
65 160/11A	1.1	1.5		7.6			7	6.3	6.1	5.7	4.9	3.4				
65 160/11	1.1	1.5		9.4			8.5	8.2	8	7	5.9	3.4				
65 160/15	1.5	2		10.6			9.7	9.5	9.2	8.5	7.3	4.9				
65 200/15	1.5	2		11.9				10.6	10.2	9.3	7.9	5.1				
65 200/22	2.2	3		14.4				13.2	12.8	12	10.6	7.8				
65 200/30	3	4		17.5				16.6	16.3	15.6	14.2	11.7	9.3			
65 250/40	4	5.5		20.7					19.5	18.8	17.7	15	12			
65 250/55	5.5	7.5		24					23.2	22.7	21.4	19	16.4			
80 160/15	1.5	2		8.3						7.6	7	6	5.2			
80 160/22A	2.2	3		9.6						9	8.5	7.5	6.5	3.2		
80 160/22	2.2	3		11						10.4	9.8	9	8	4.5		
80 200/30	3	4		12.9							12	10.8	9.8	6.1	4.6	
80 200/40	4	5.5		16.1							15.4	14.3	11.3	9.7	8.4	7
80 200/55	5.5	7.5		20.3							19.5	18.4	17.3	12.3	10.1	
80 250/75	7.5	1		23.1							22.2	21.3	20.3	16.1	14.2	12.2
80 250/92**	9.2	12.5		26.7							26.1	25.2	24.2	20.2	18.6	16.8

* XNS4 version not available
** XNF4 version not available
Performance based on the ISO 9906 standard - Annexe A

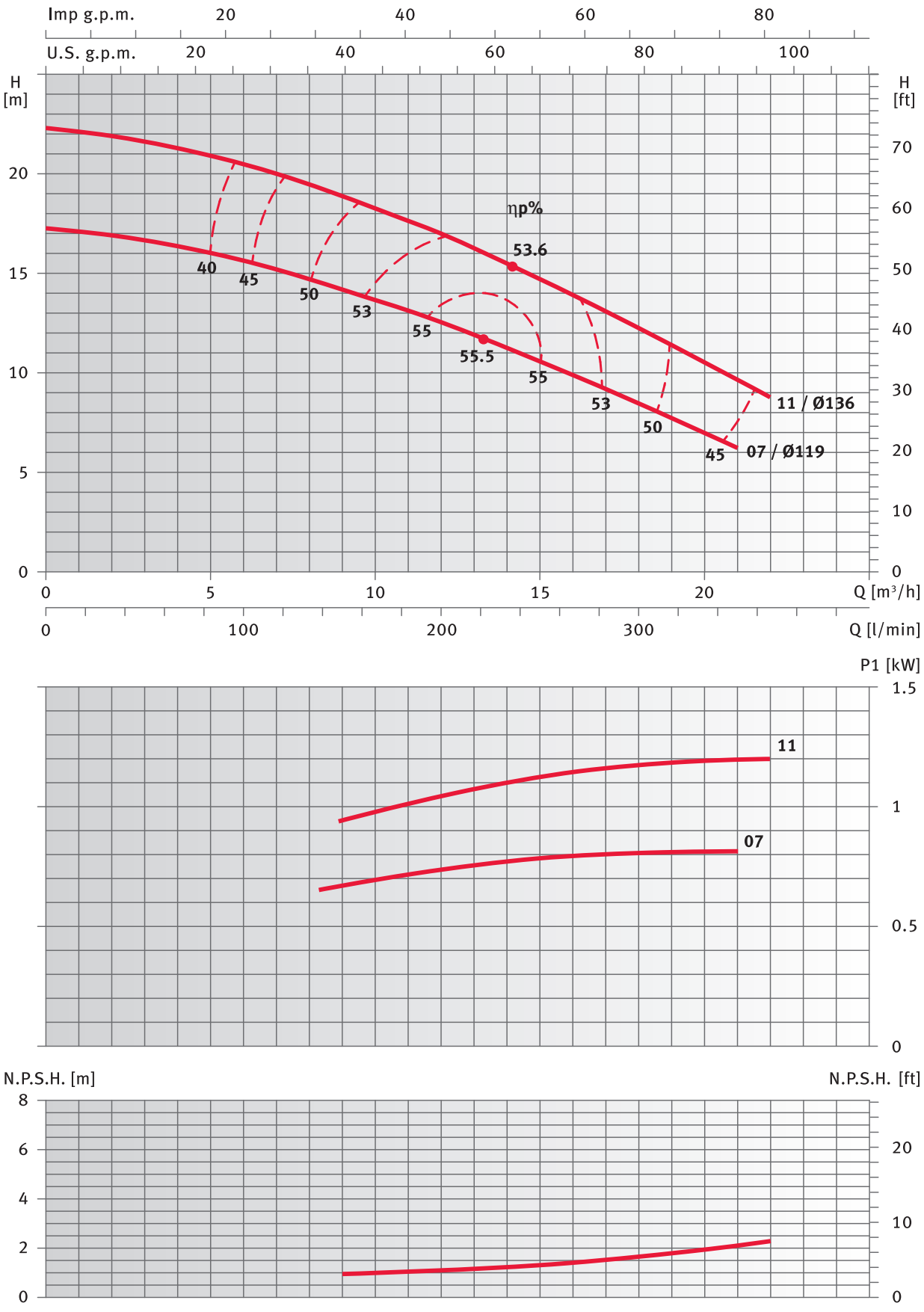
XN Series

Operating curves

50 Hz

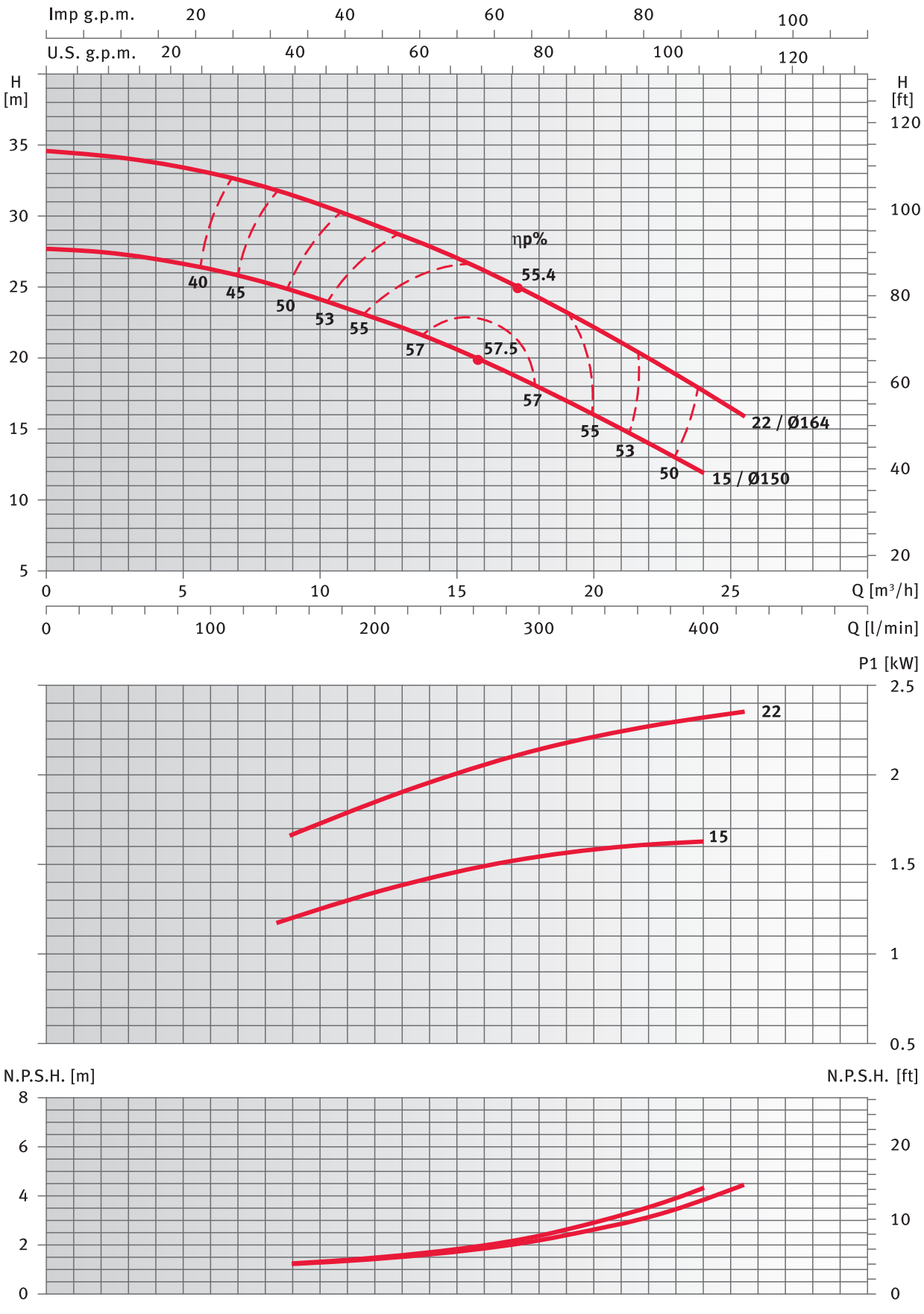


XN, XNS and XNF 25 - 125 series



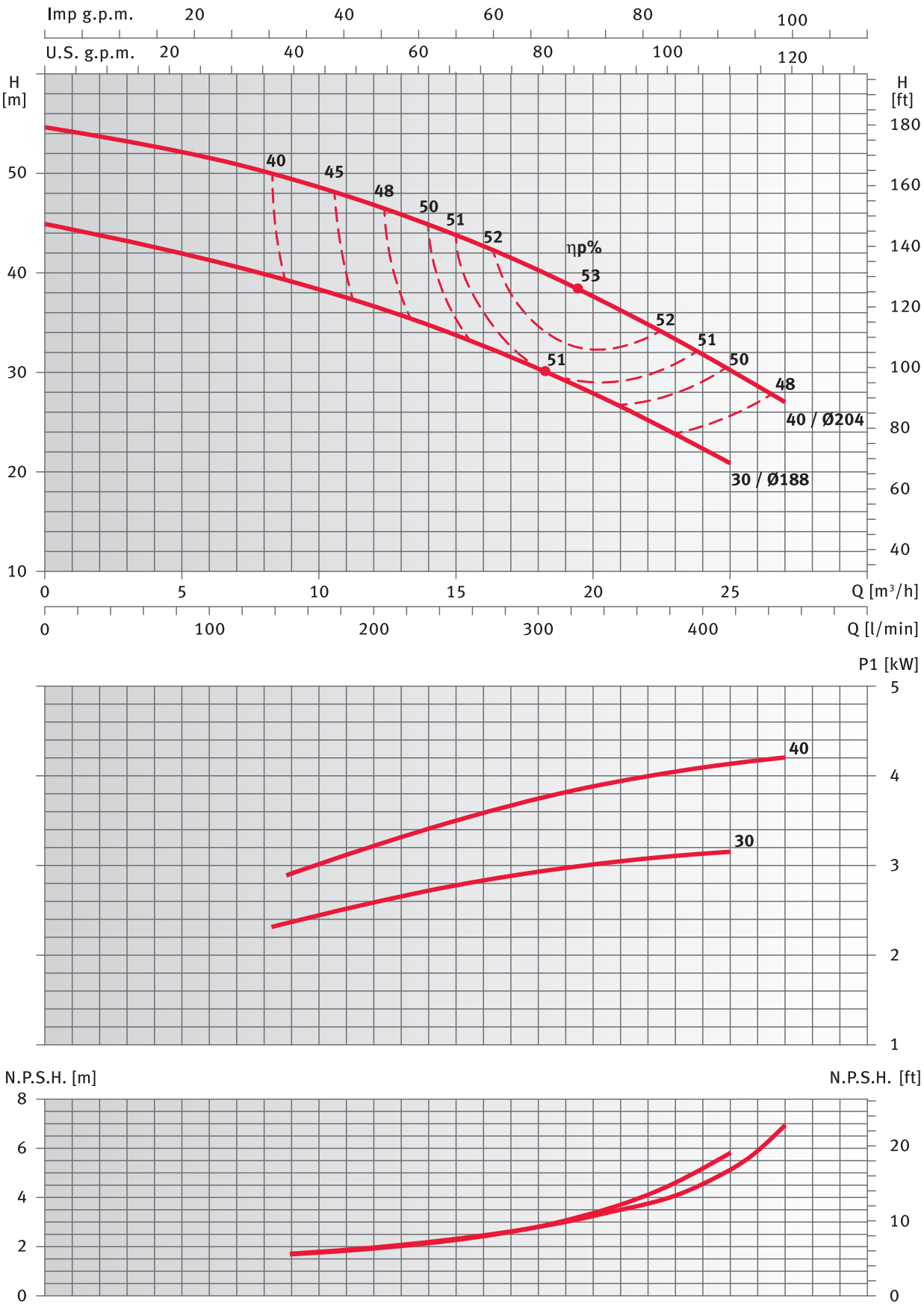
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 25 - 160 series



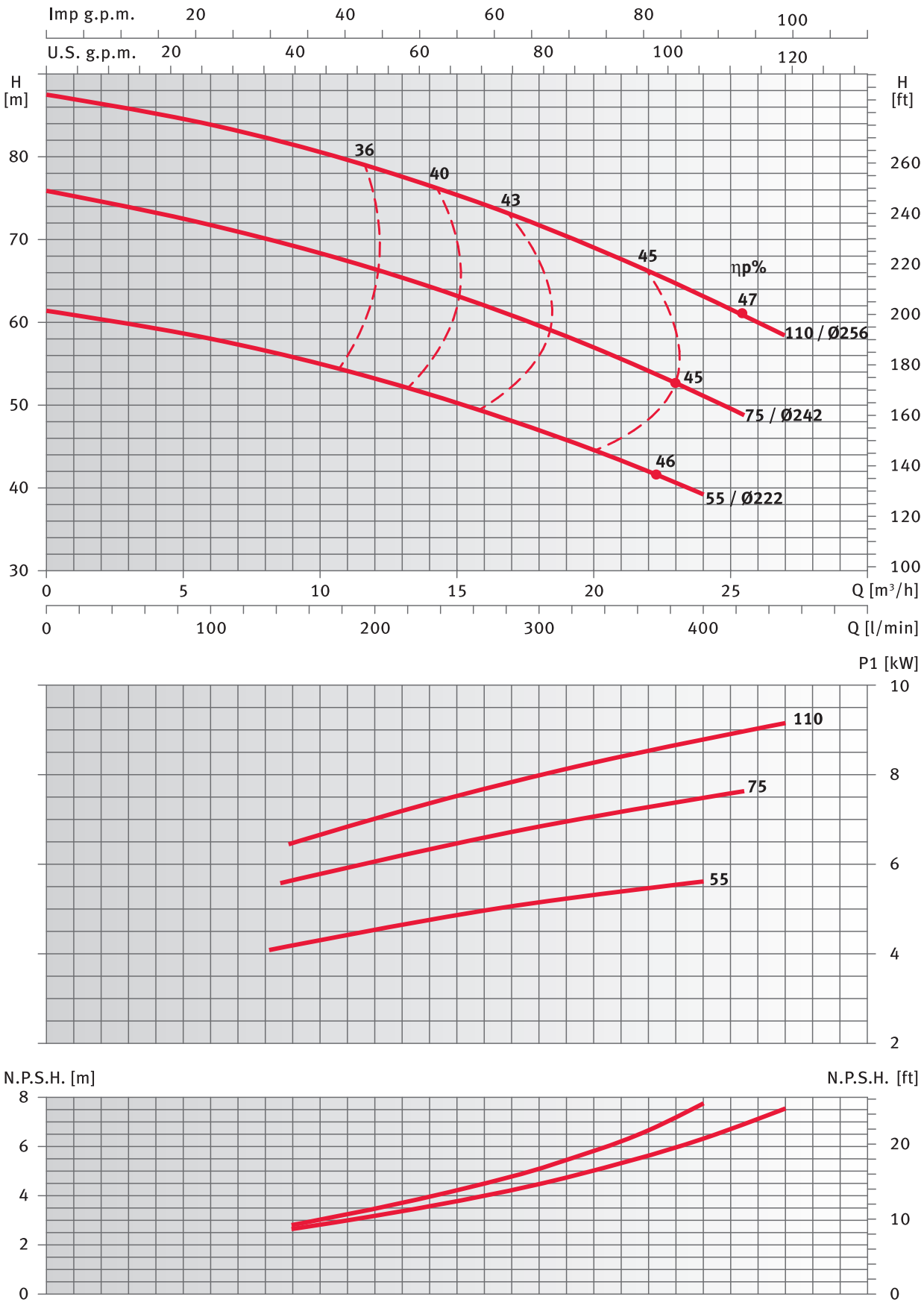
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN, XNS and XNF 25 - 200 series



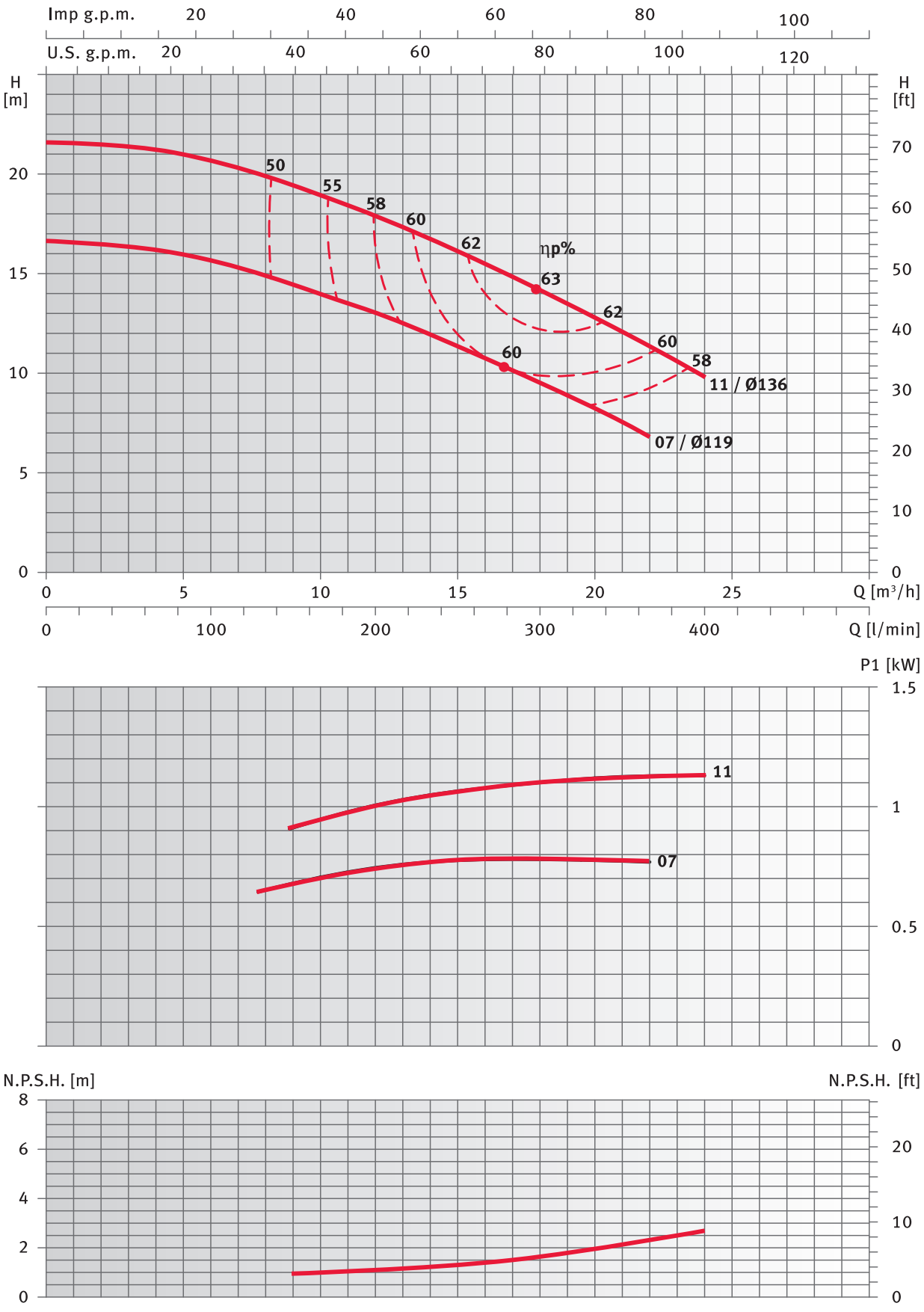
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 25 - 250 series



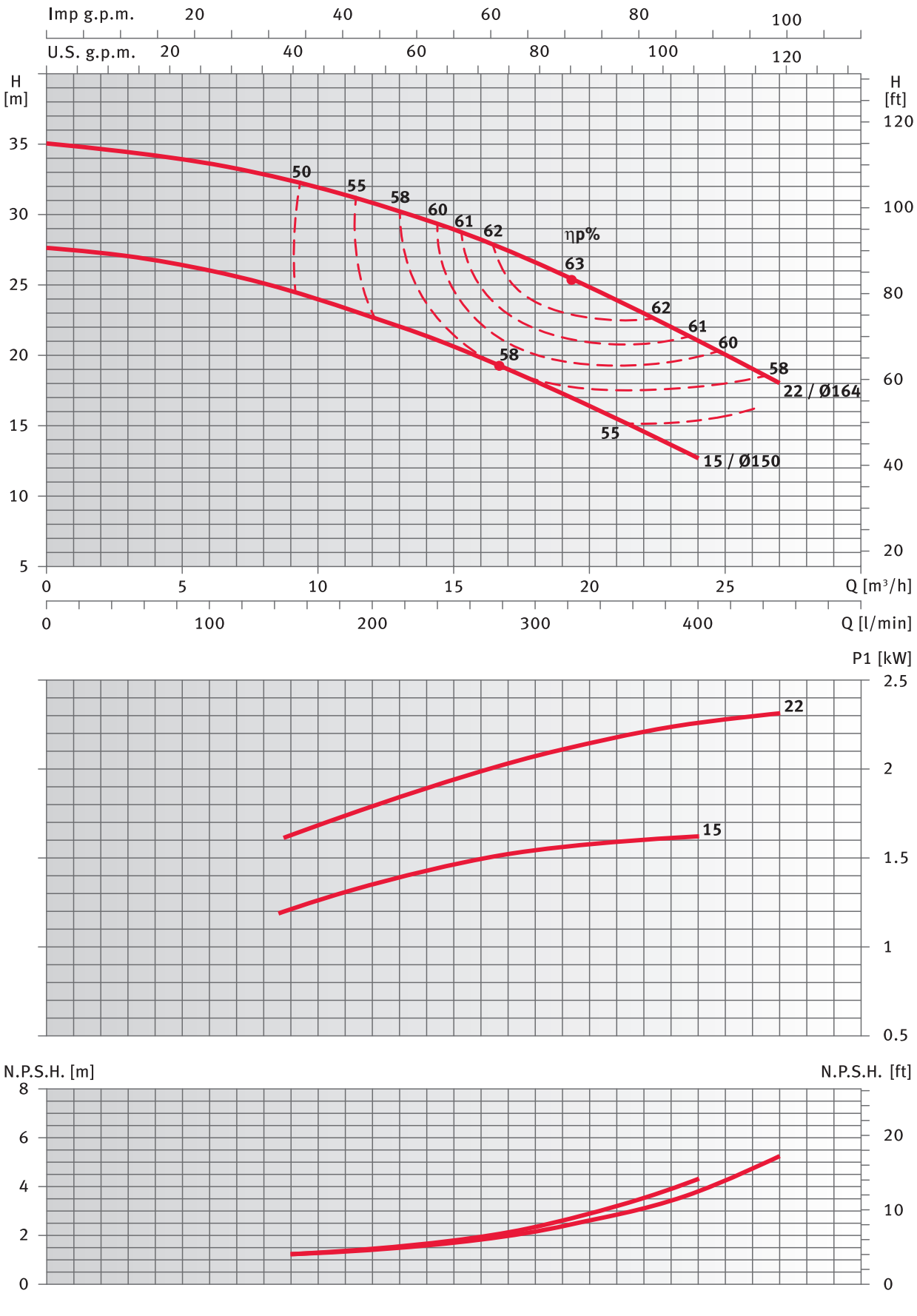
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 32 - 125 series



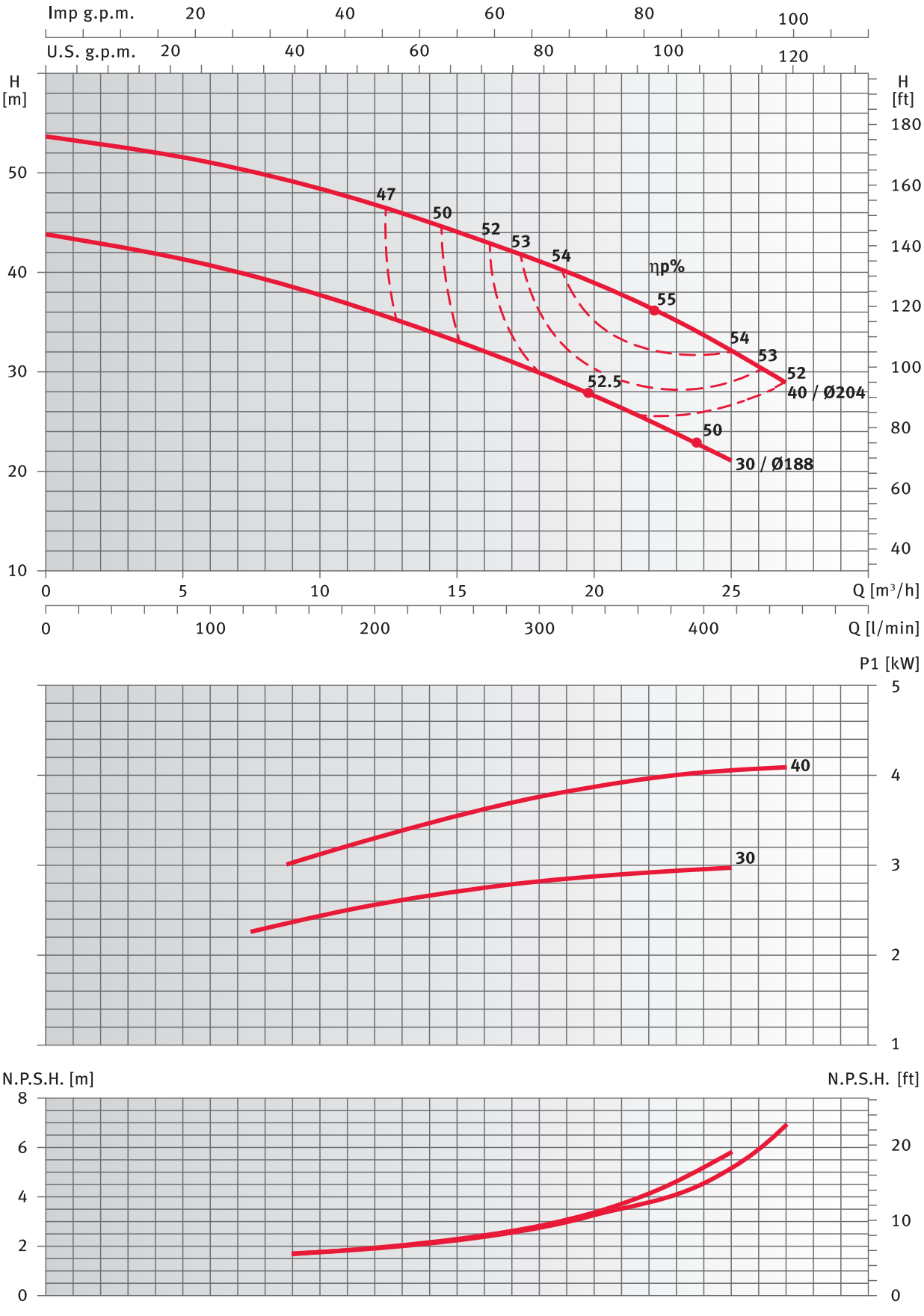
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 32 - 160 series



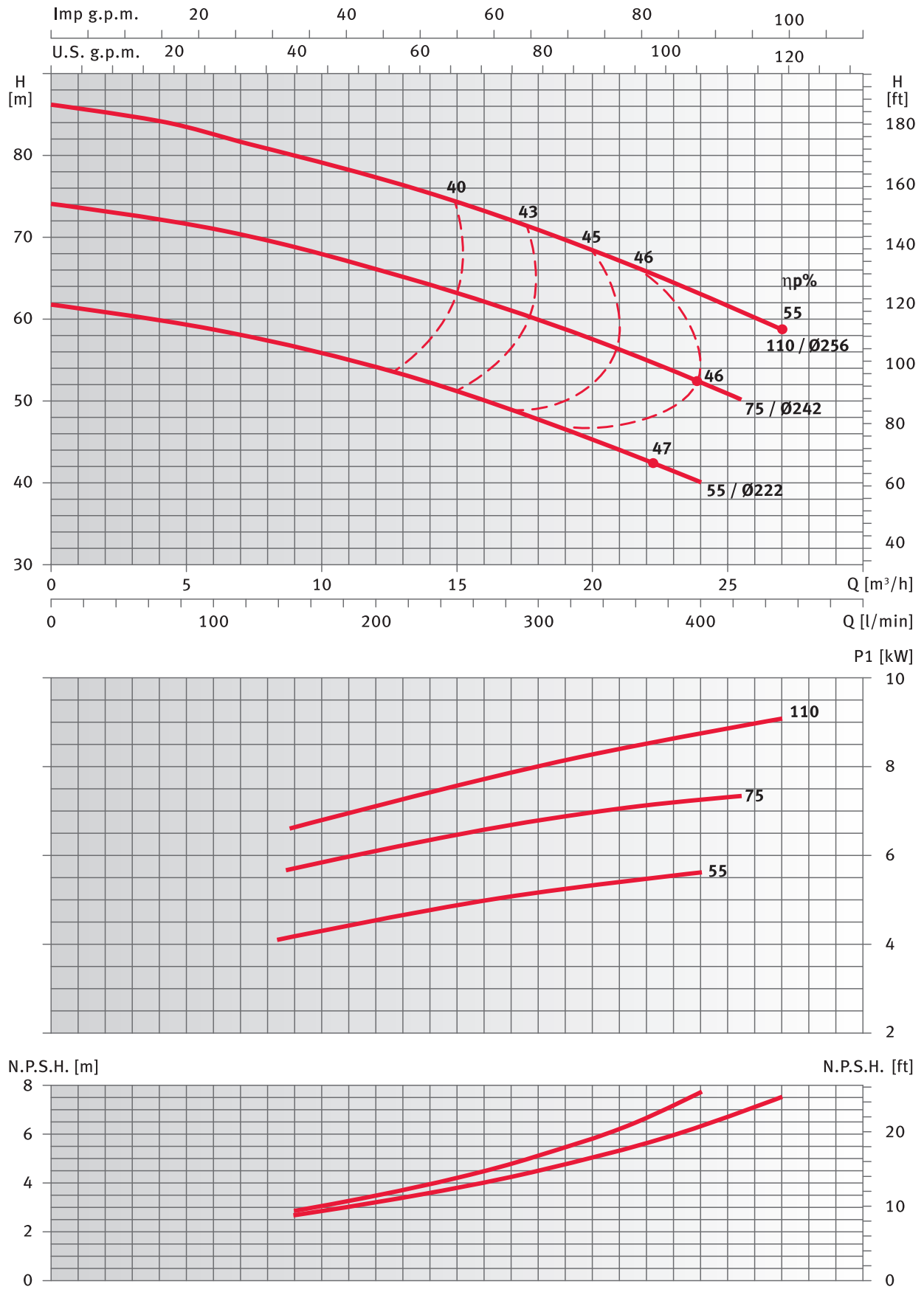
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN, XNS and XNF 32 - 200 series



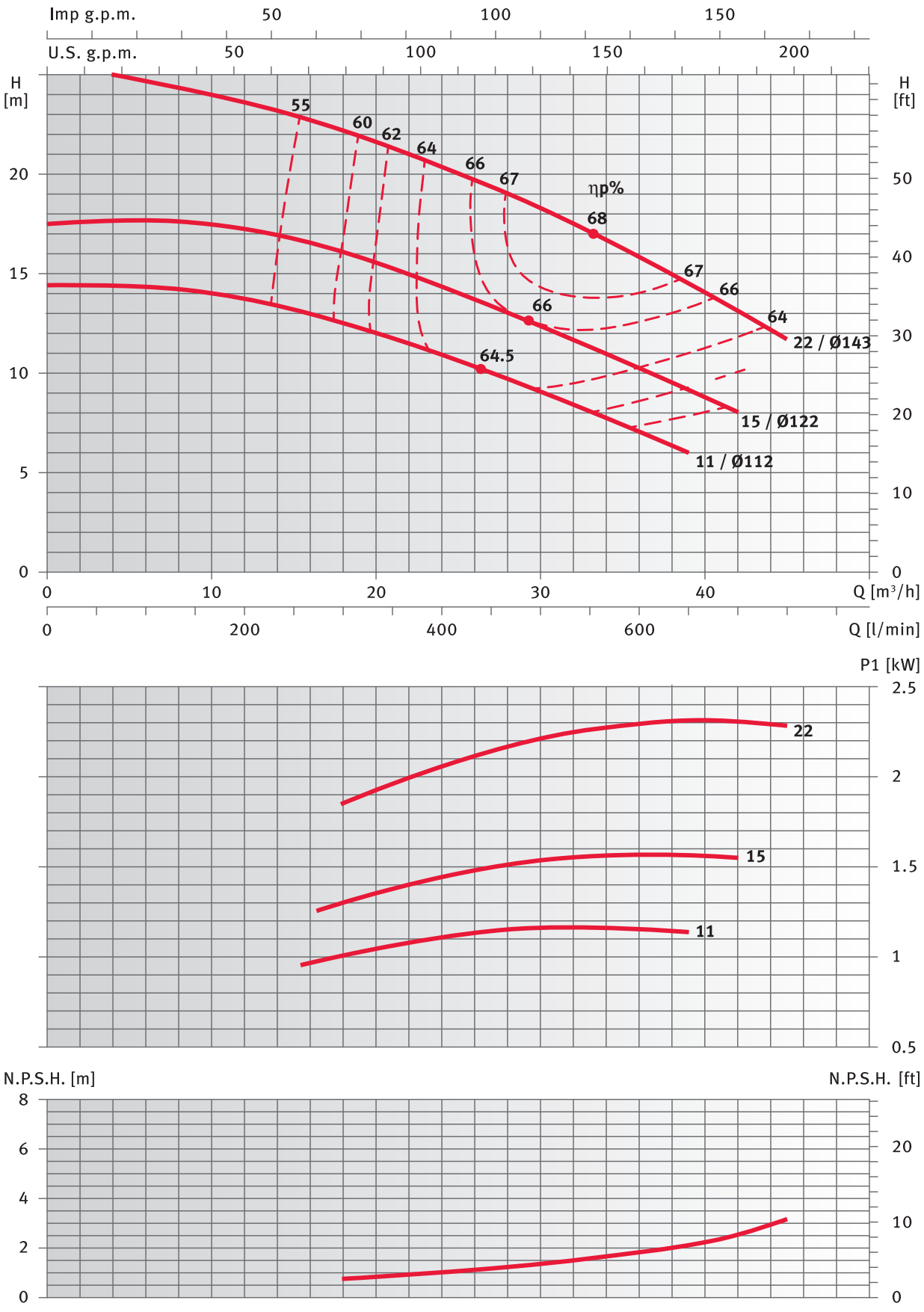
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 32 - 250 series



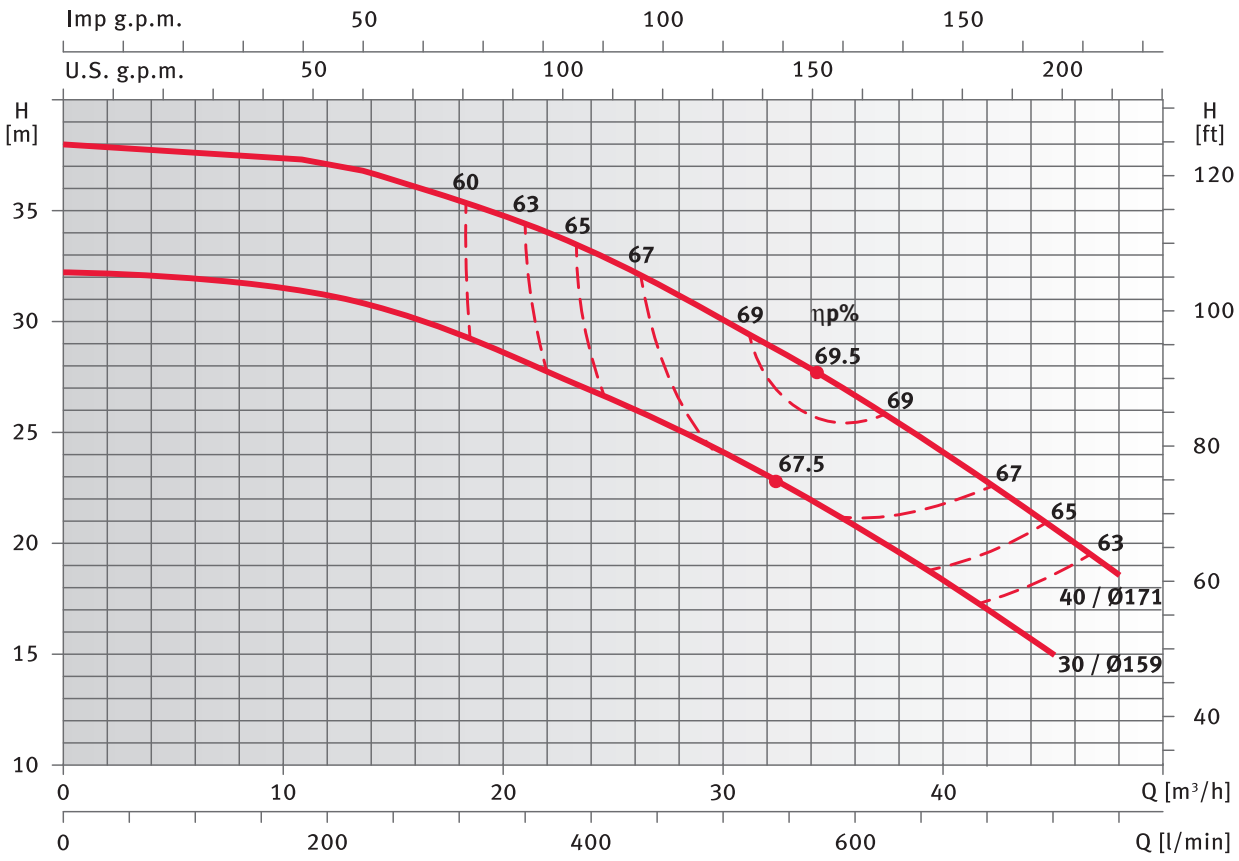
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

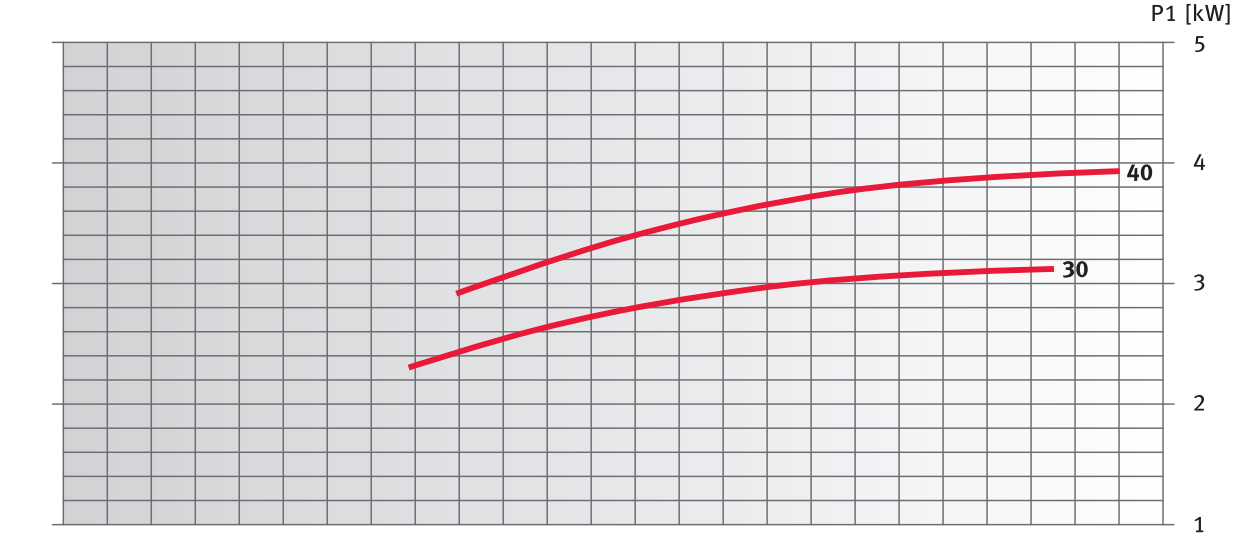
XN, XNS and XNF 40 - 125 series

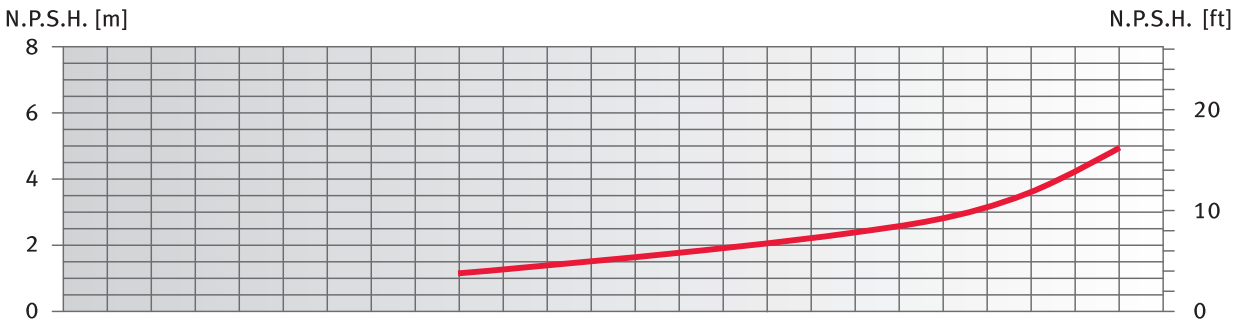


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 40 - 160 series

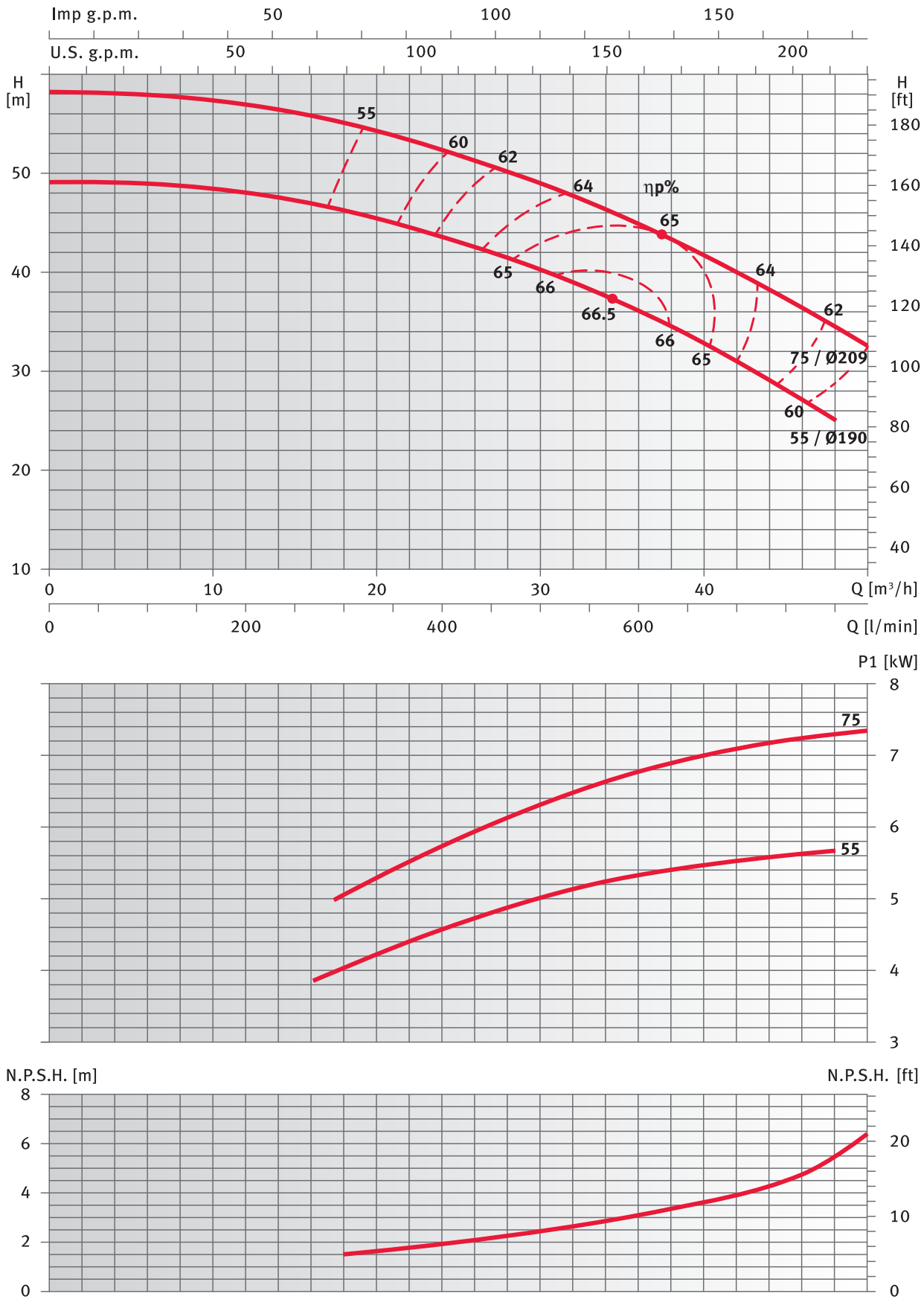






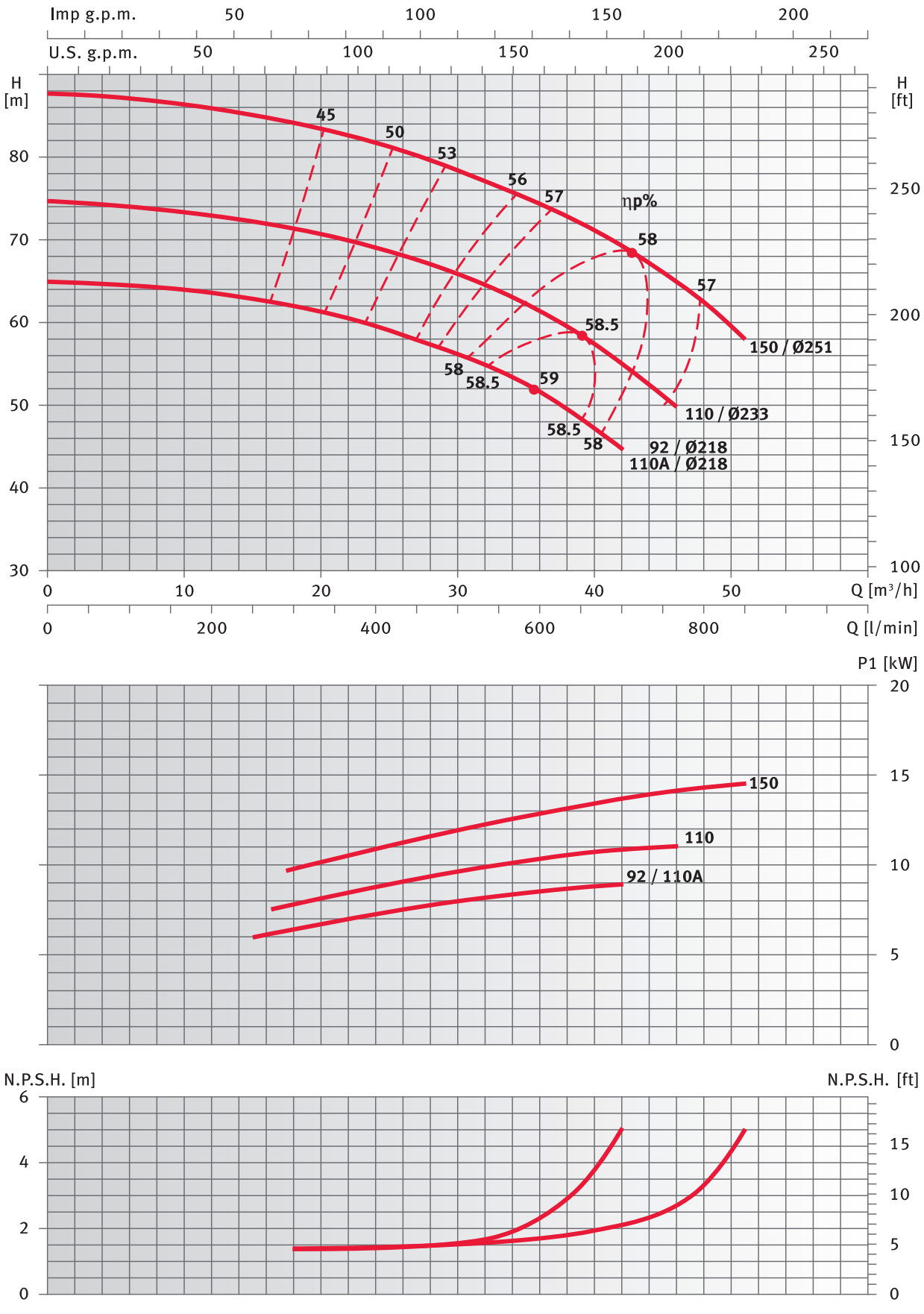
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN, XNS and XNF 40 - 200 series



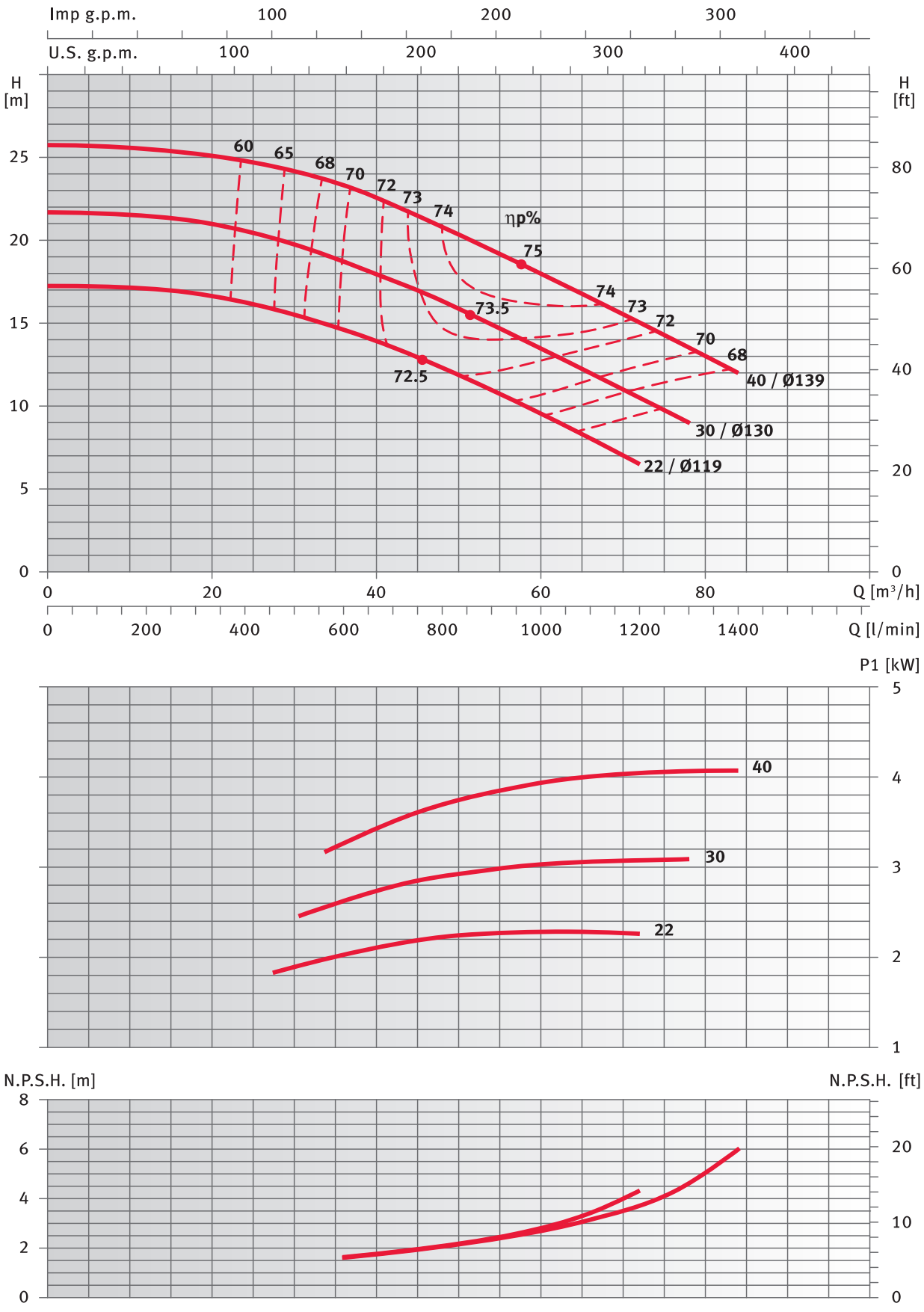
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 40 - 250 series



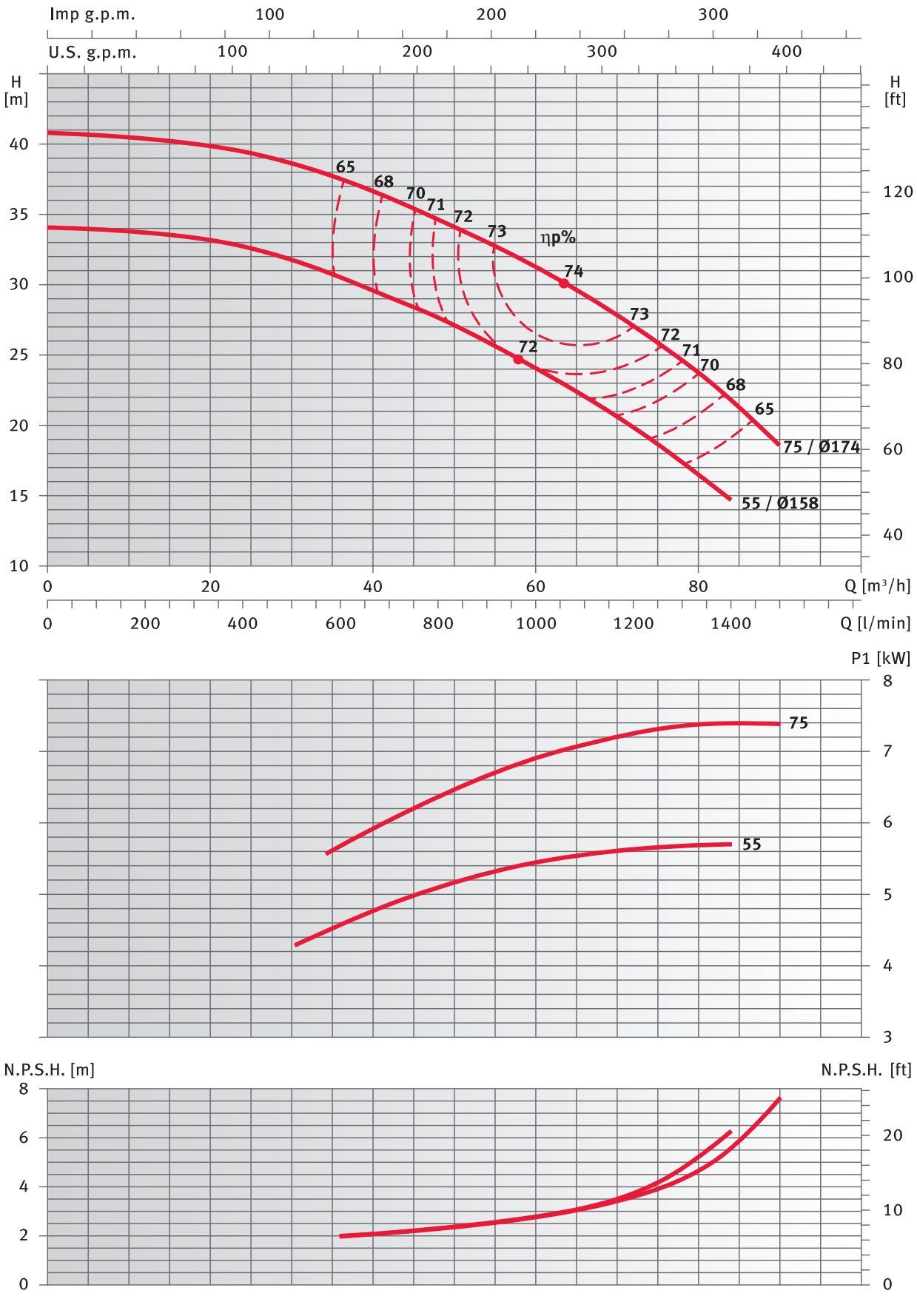
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN, XNS and XNF 50 - 125 series



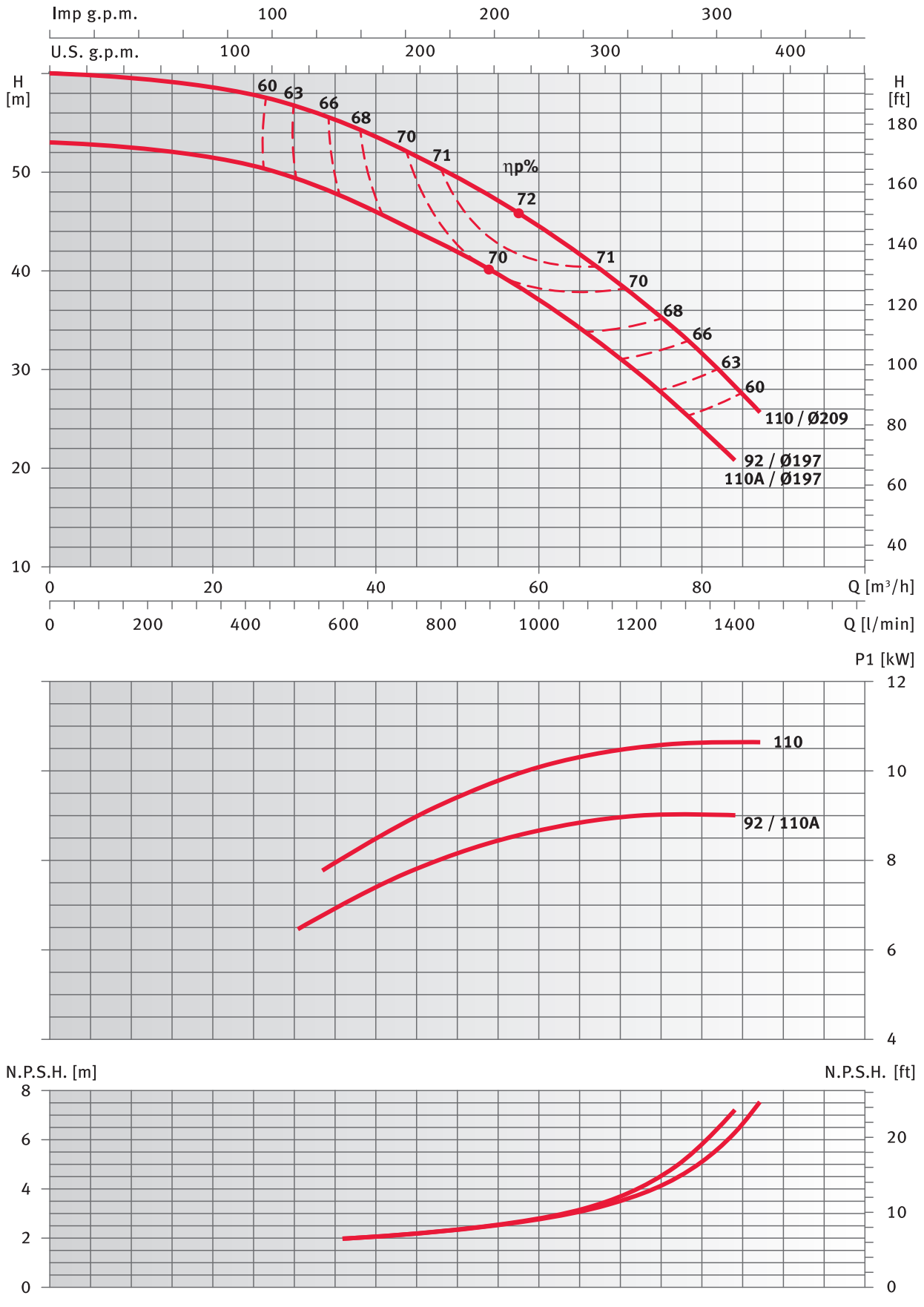
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 50 - 160 series



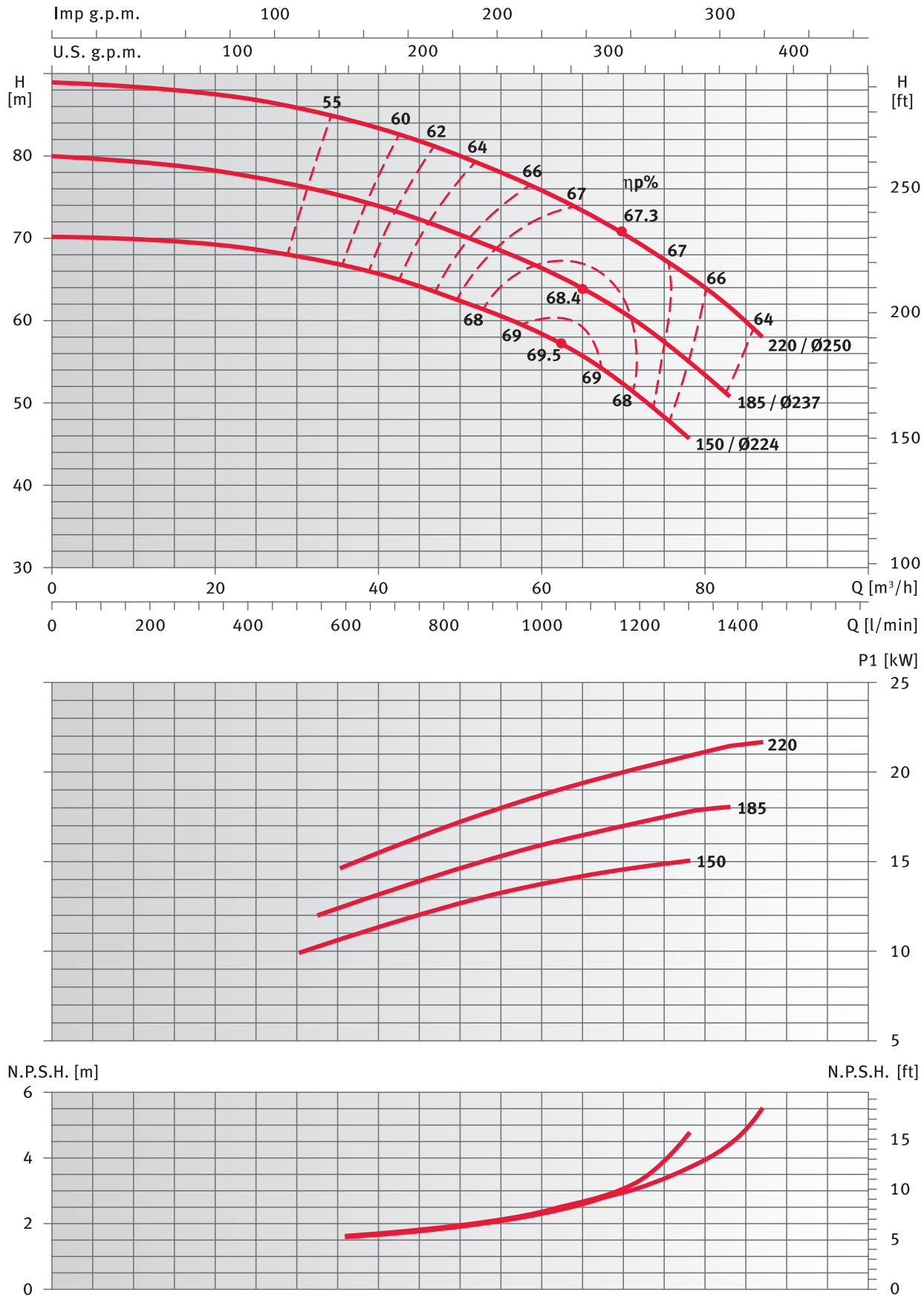
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 50 - 200 series



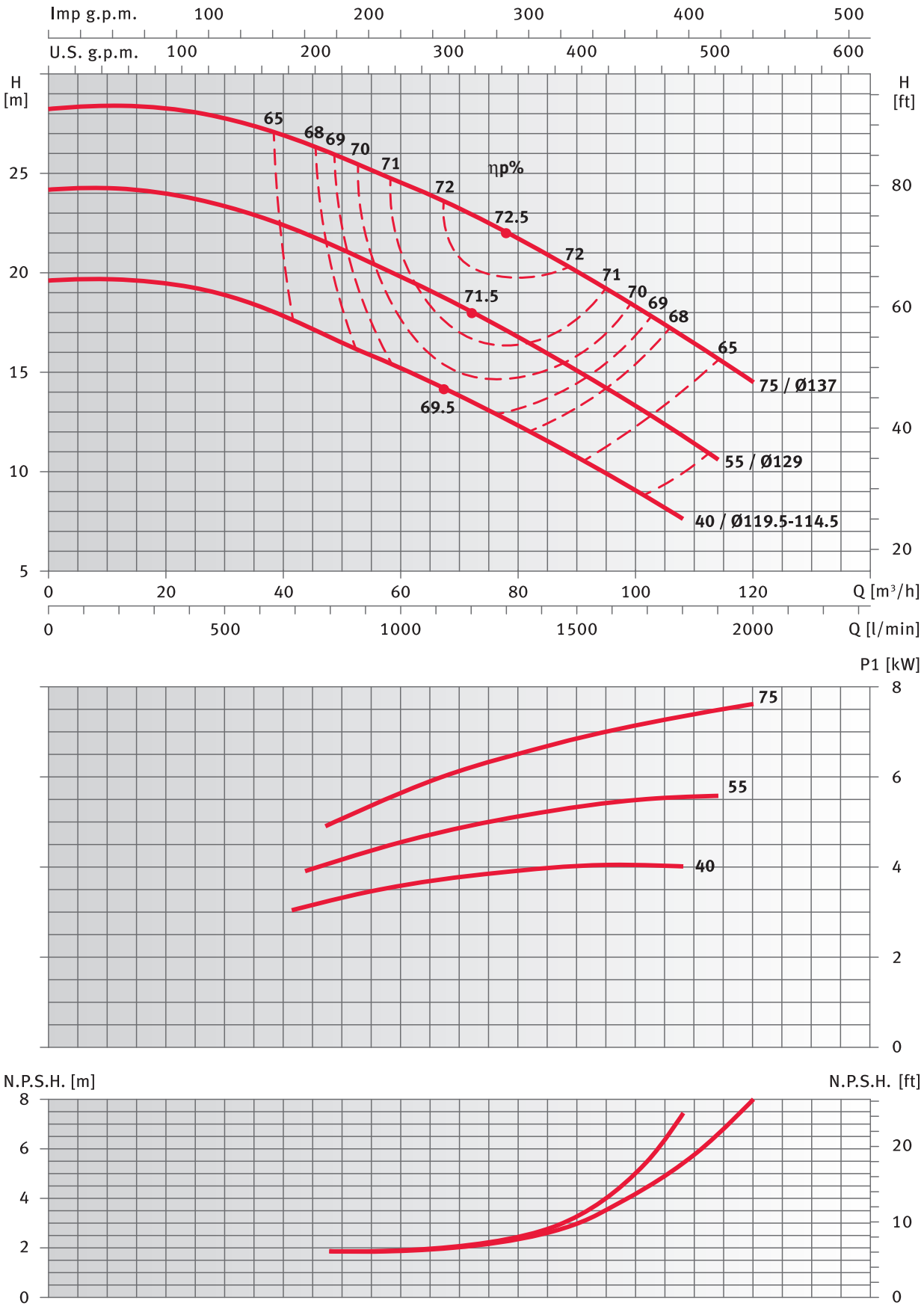
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 50 - 250 series



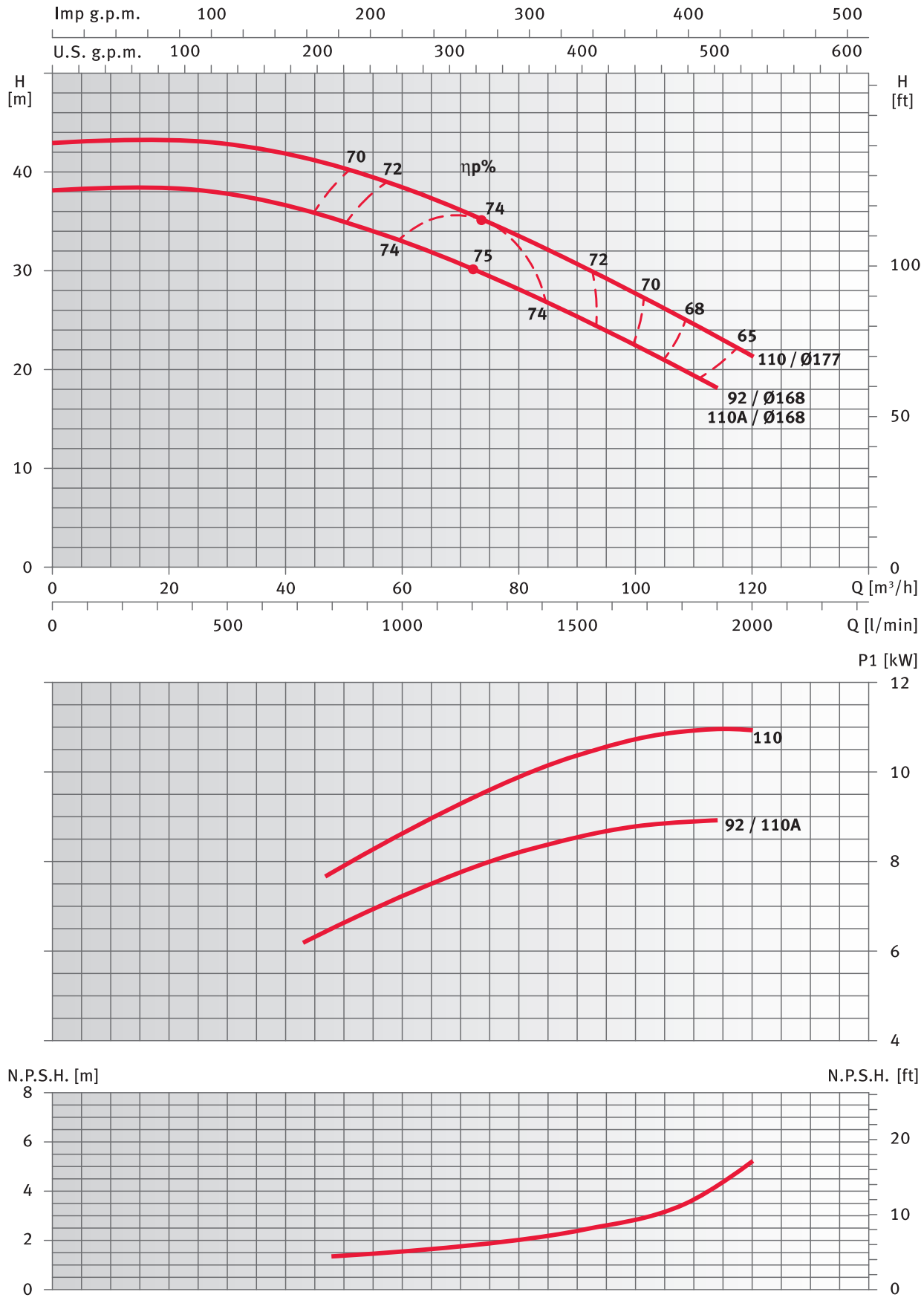
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 65 - 160 series



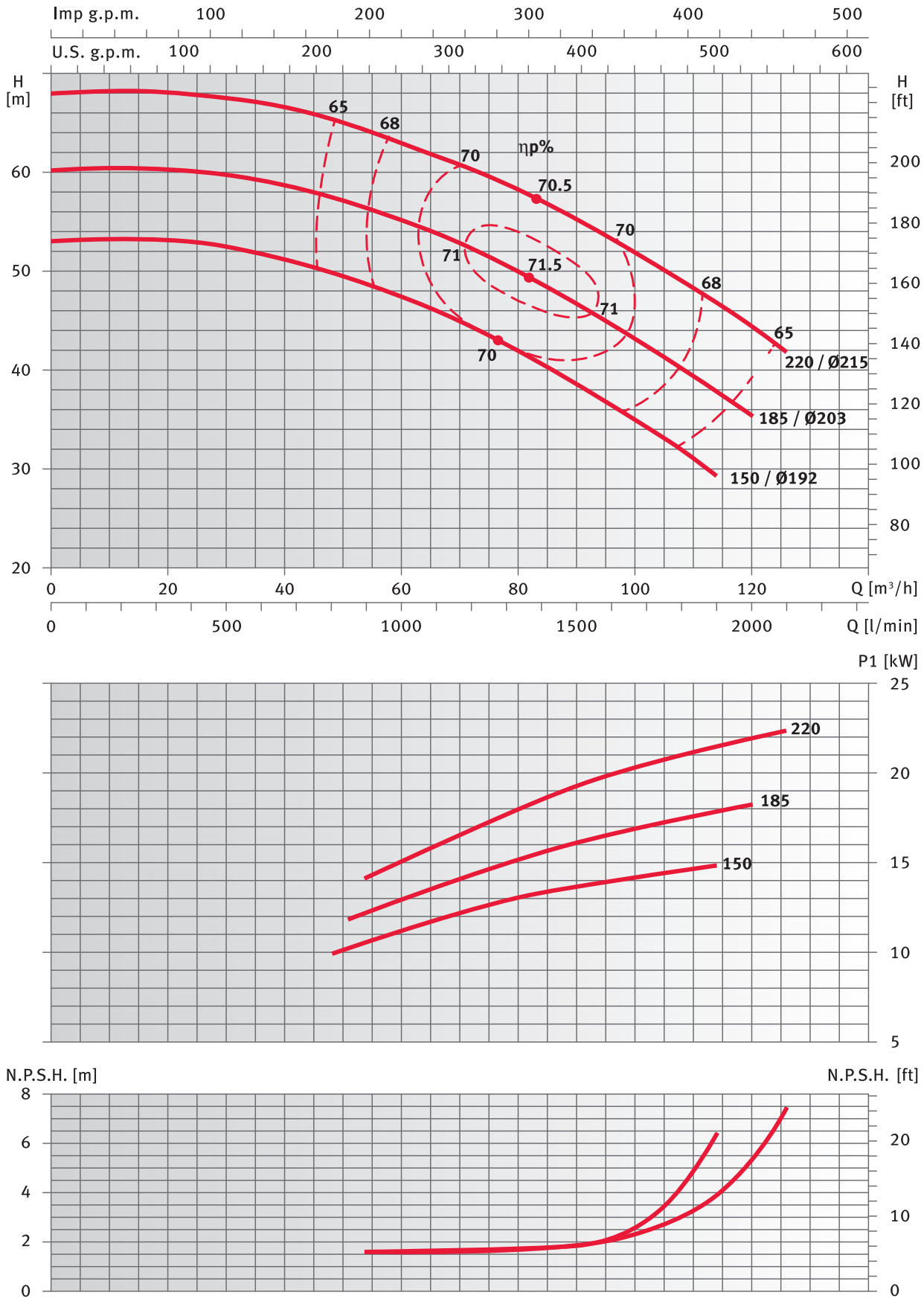
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 65 - 200 series



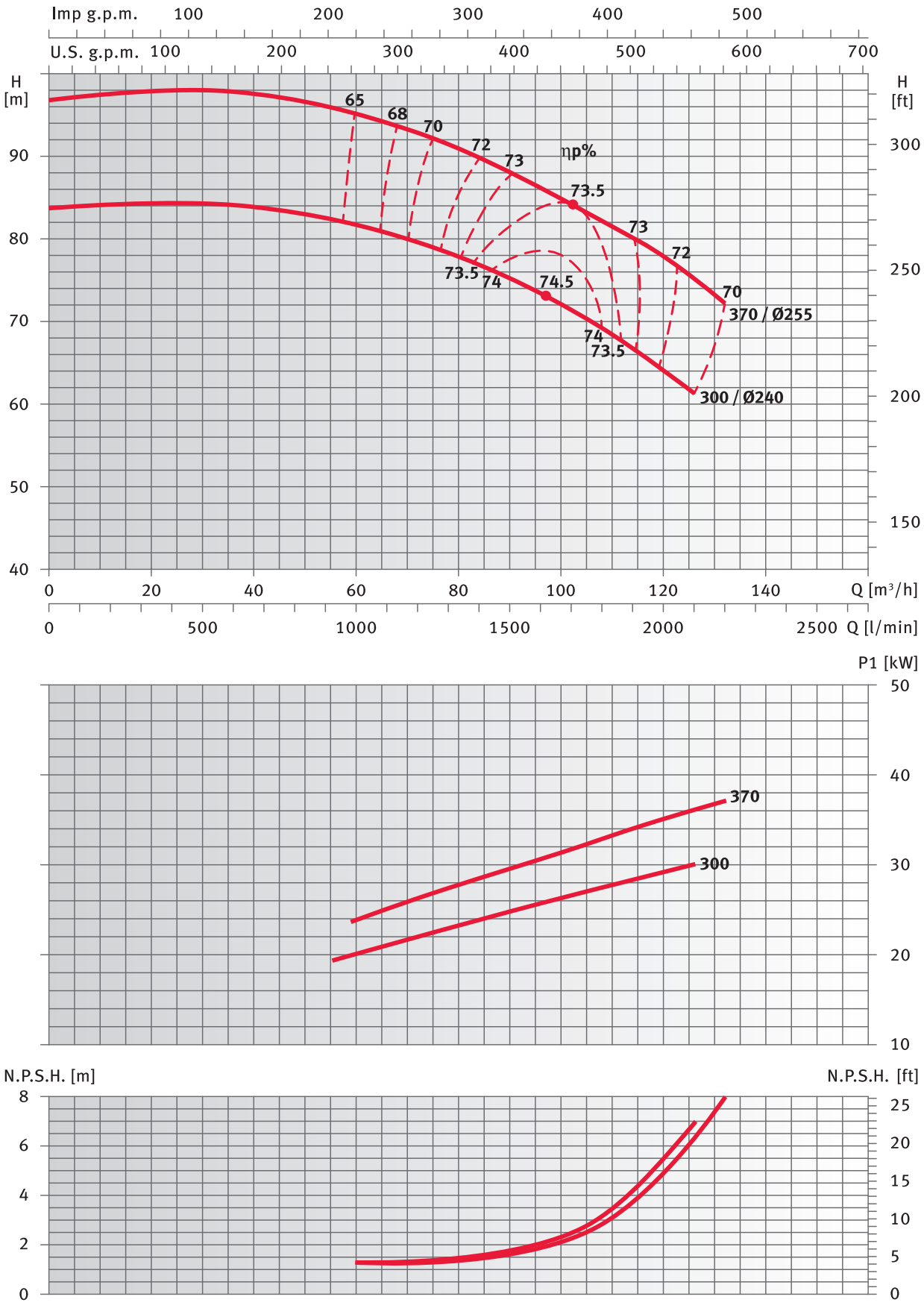
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN, XNS and XNF 65 - 200 series



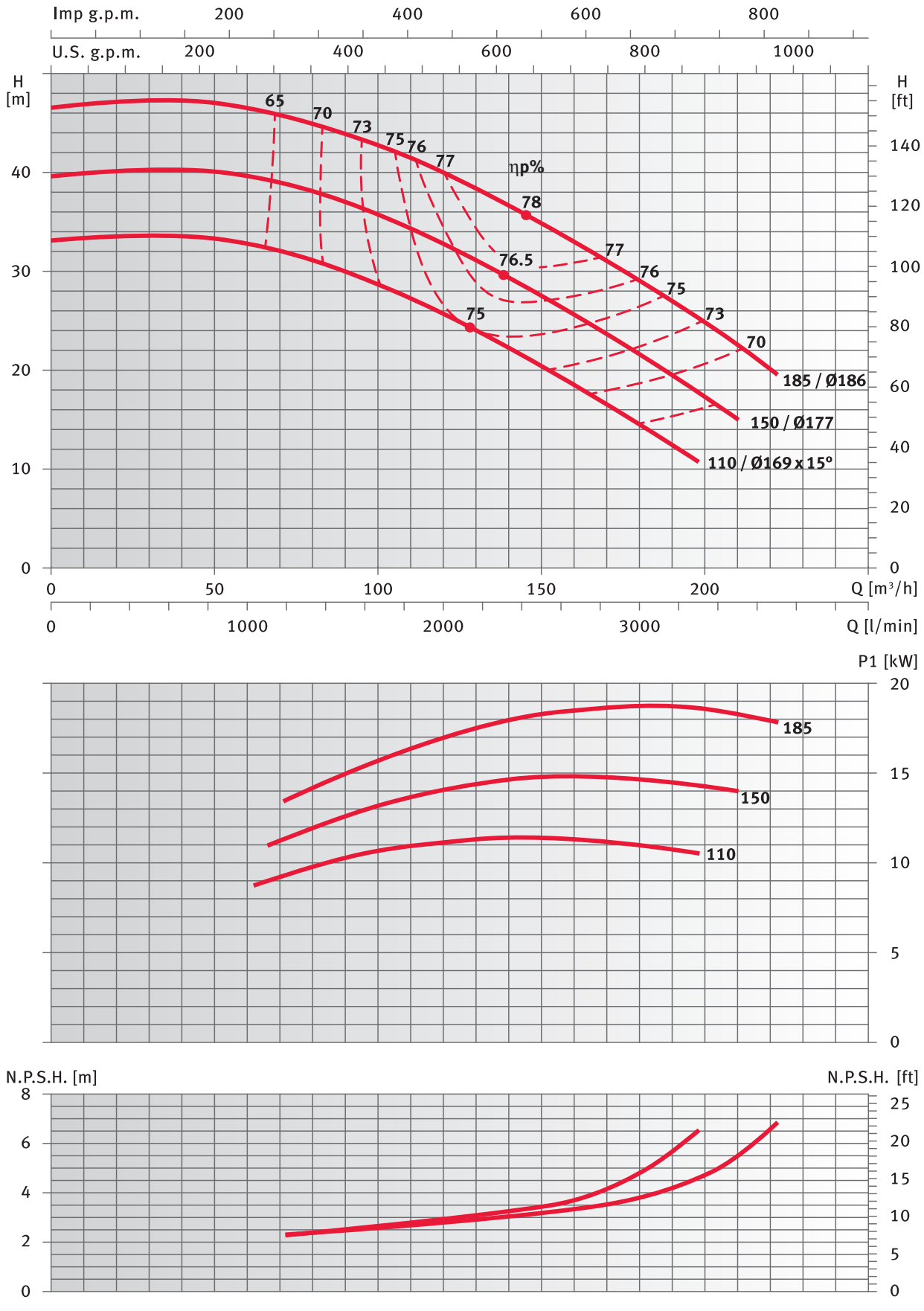
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XNS and XNF 65 - 250 series



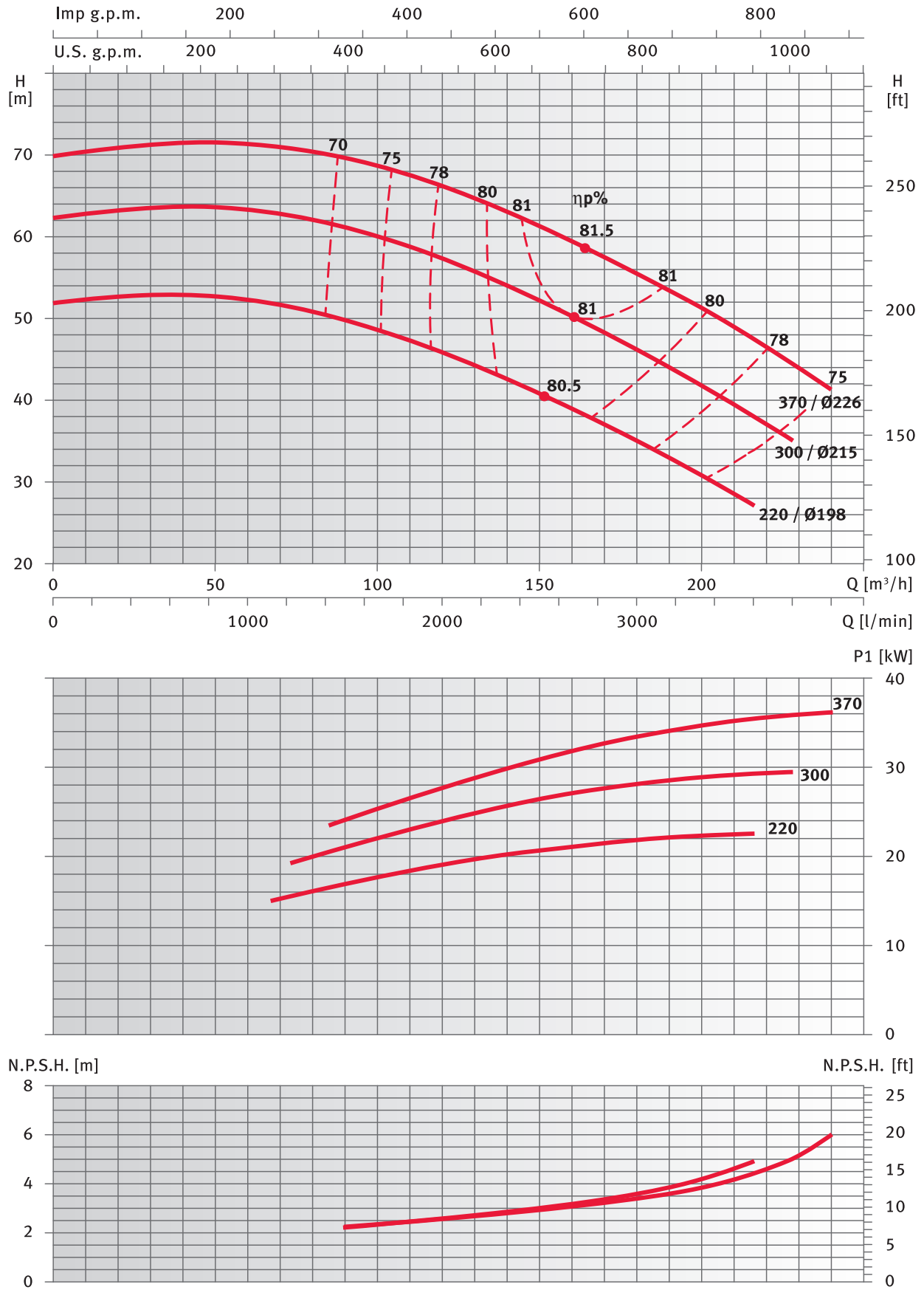
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 80 - 160 series



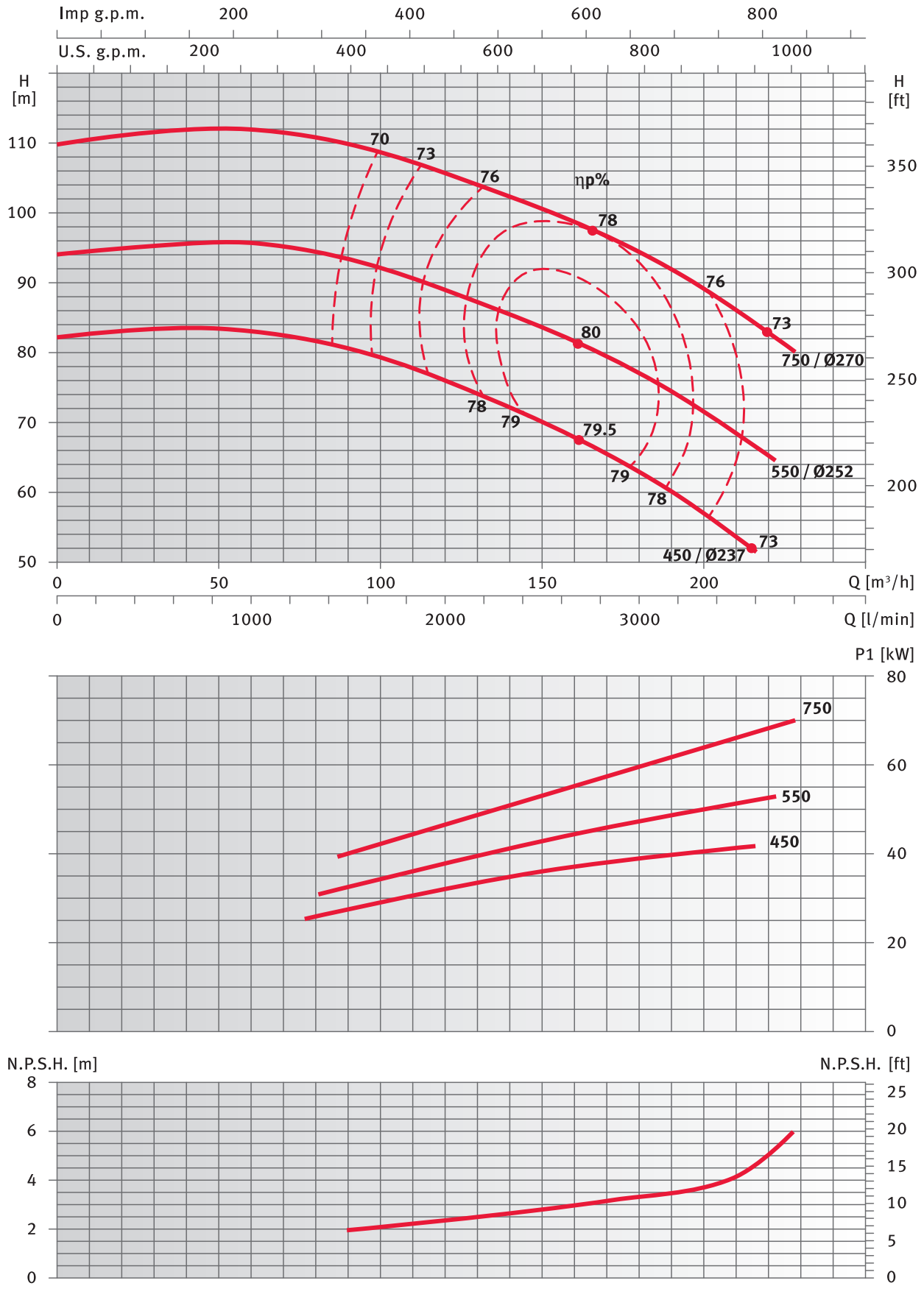
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN, XNS and XNF 80 - 200 series



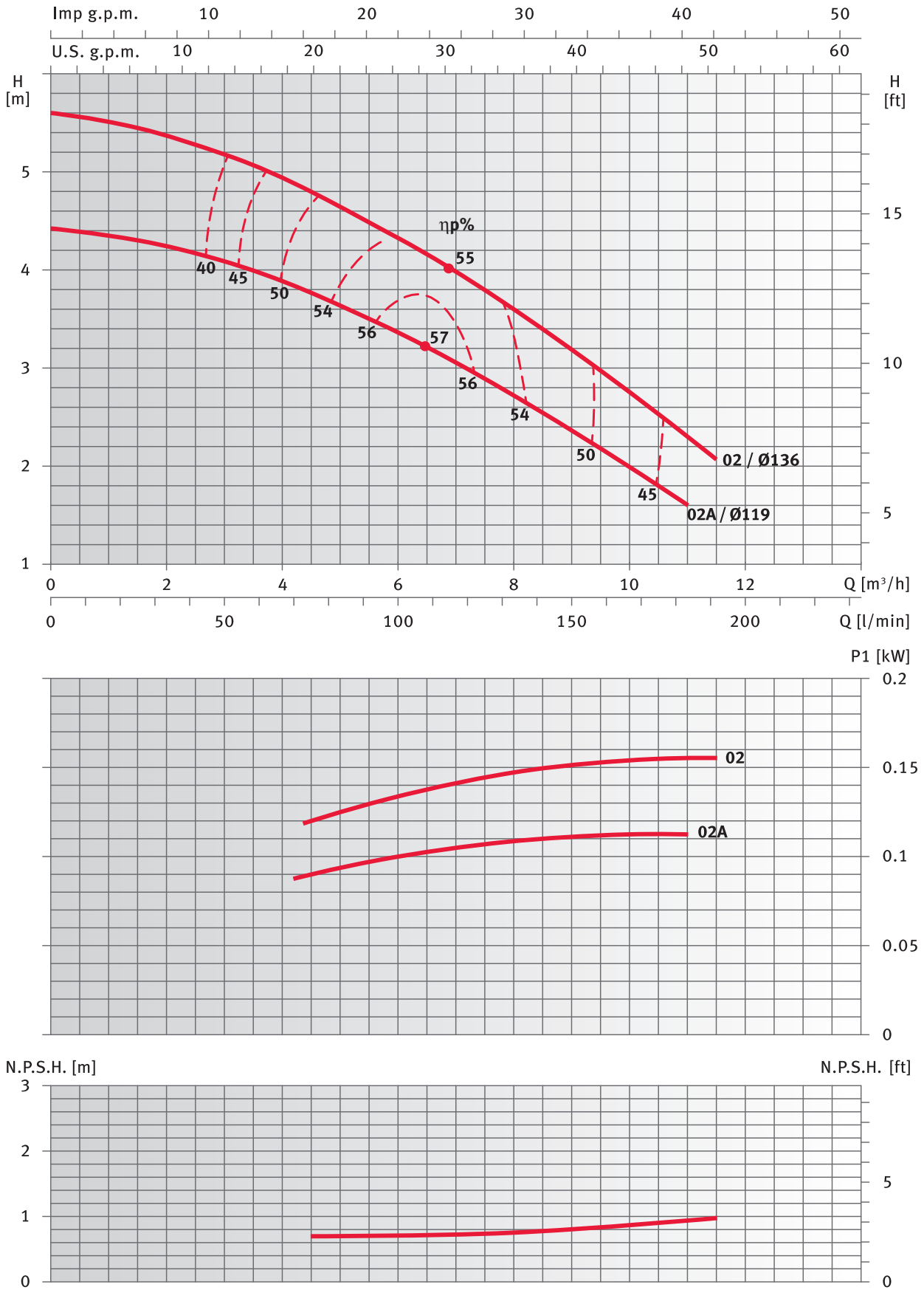
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XNF 80 - 250 series



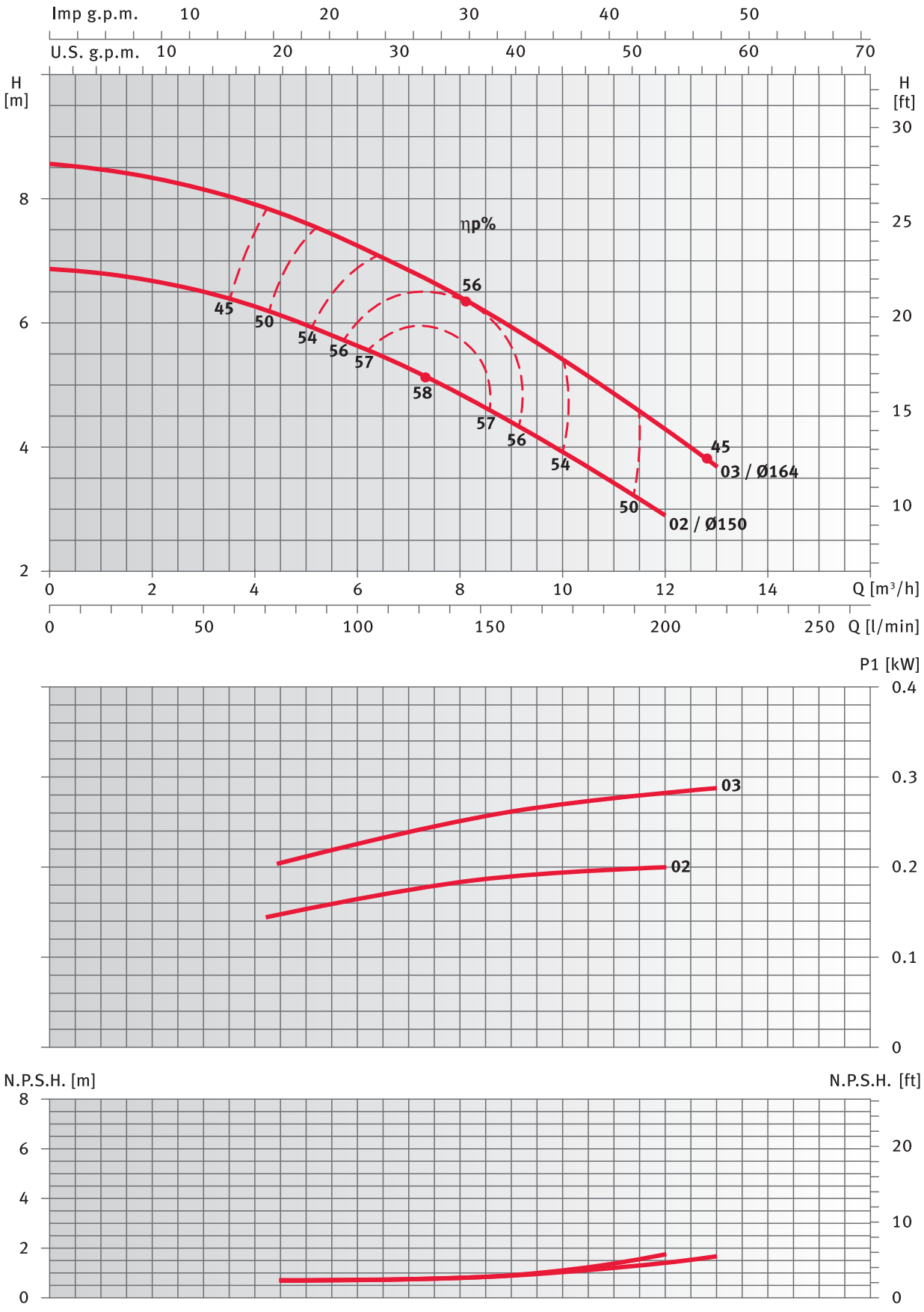
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN4 and XNF4 25 - 125 series



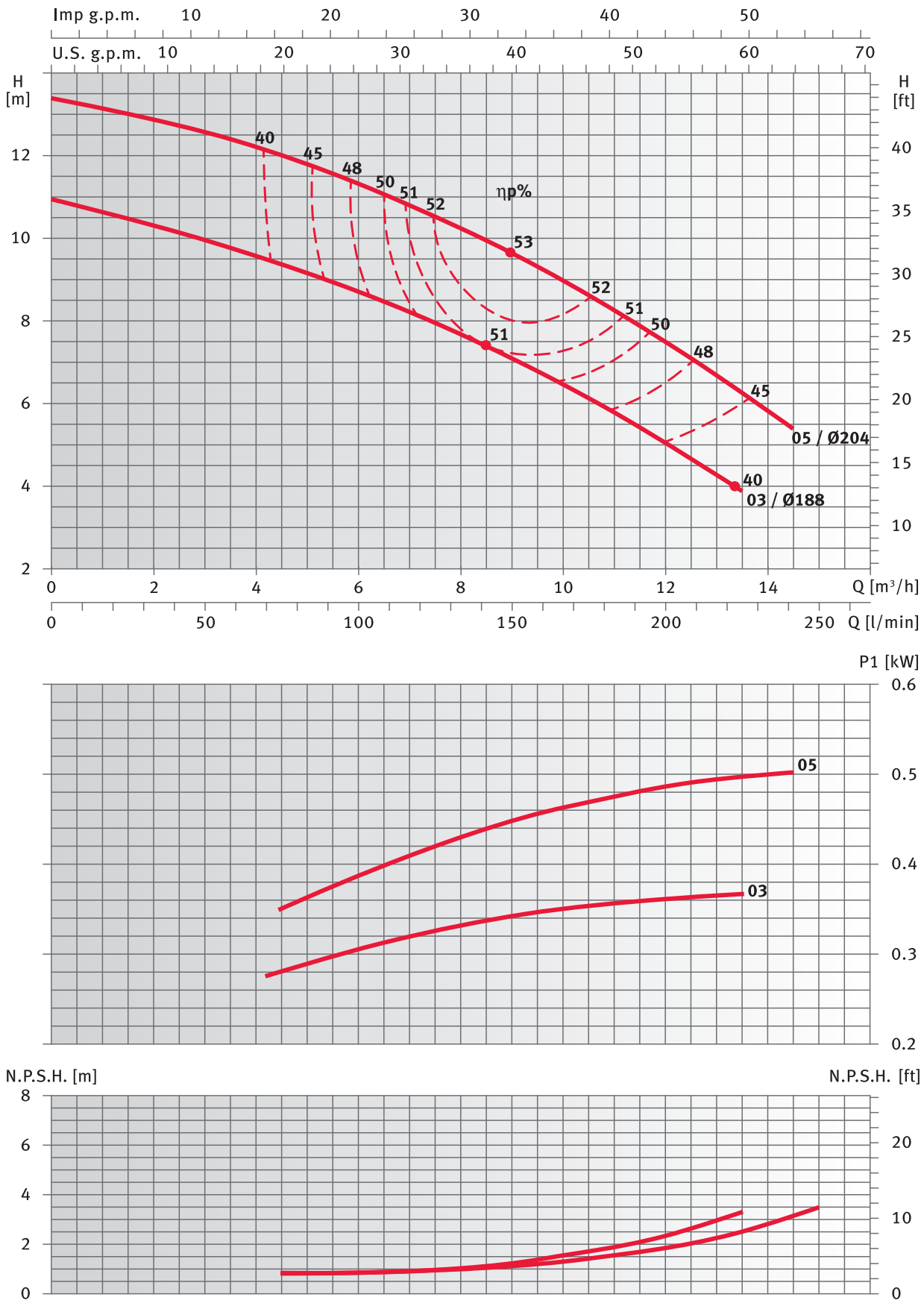
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4 and XNF4 25 - 160 series



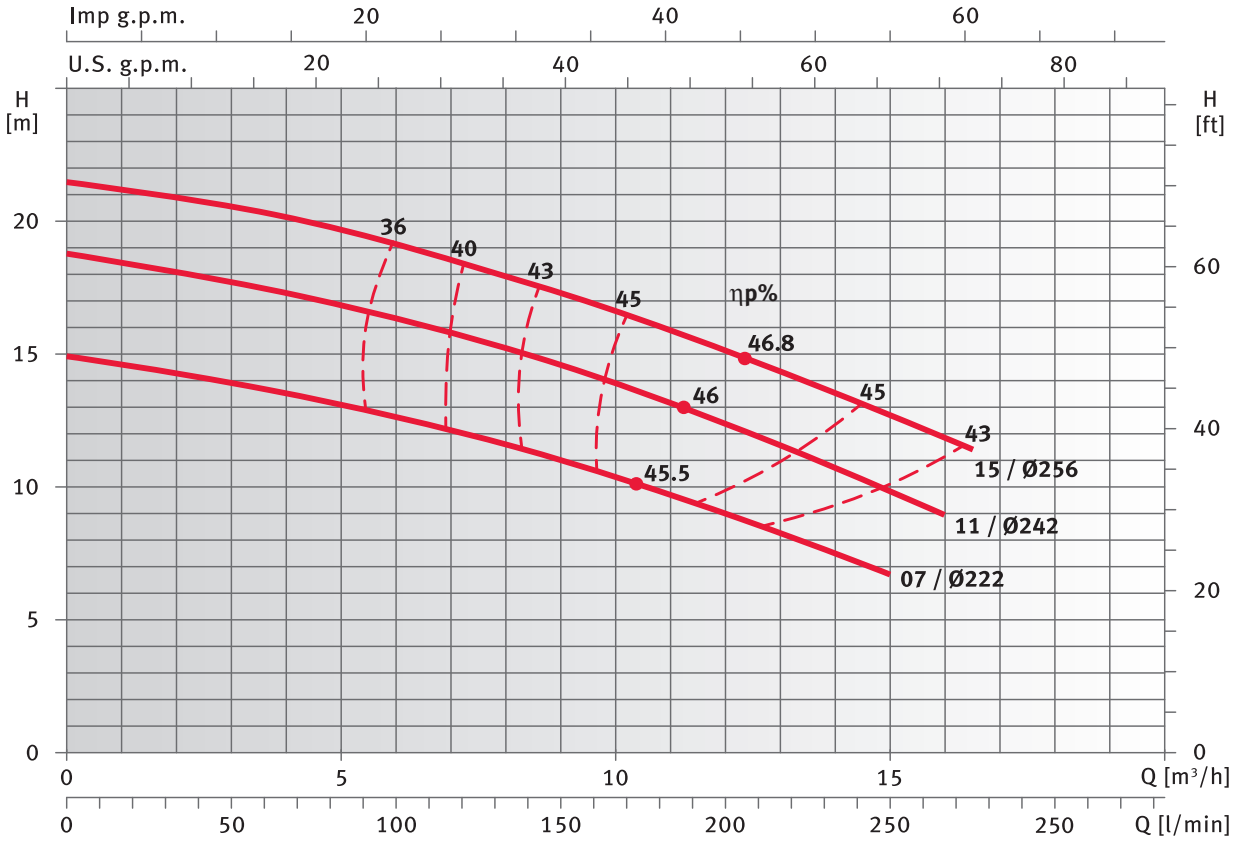
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

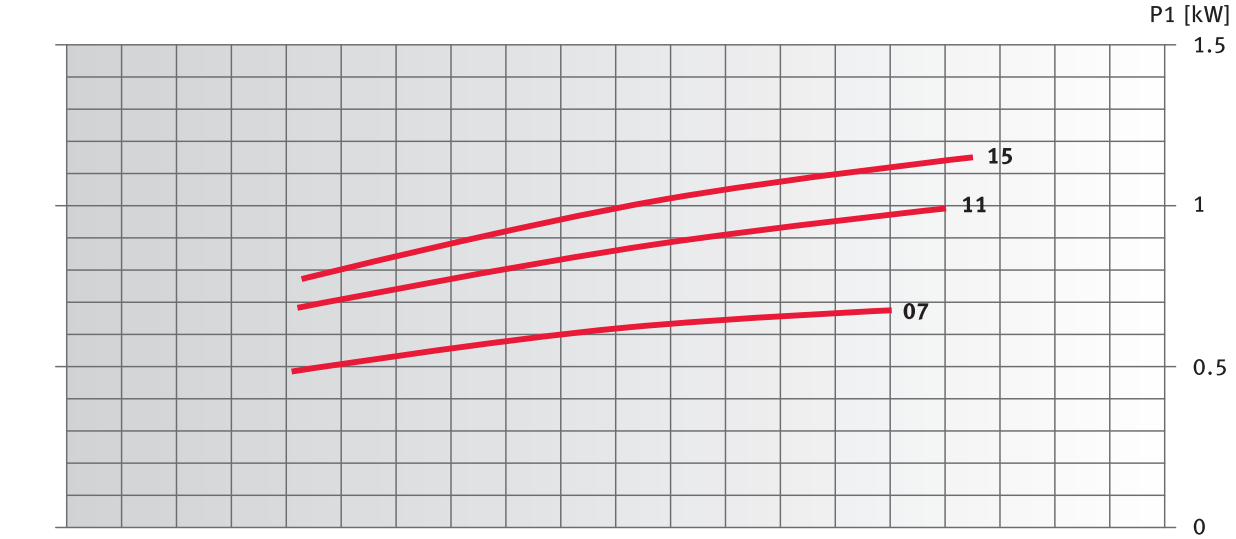
XN4 and XNF4 25 - 200 series

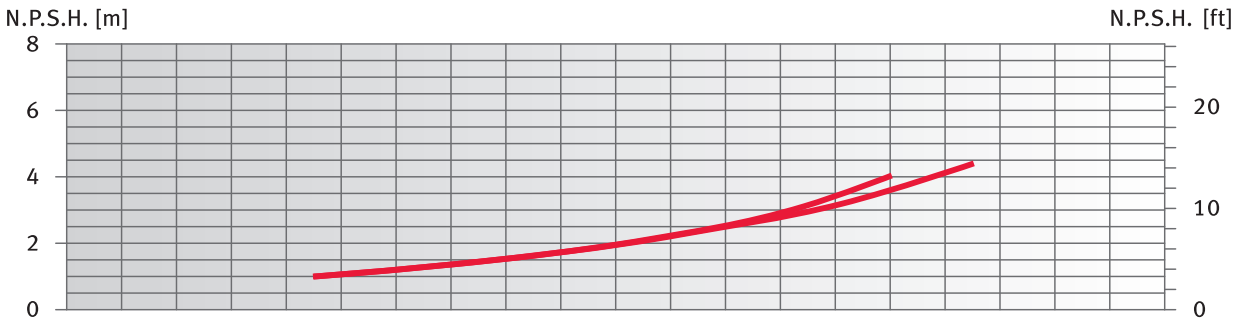


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4, XNS4 and XNF4 25 - 250 series

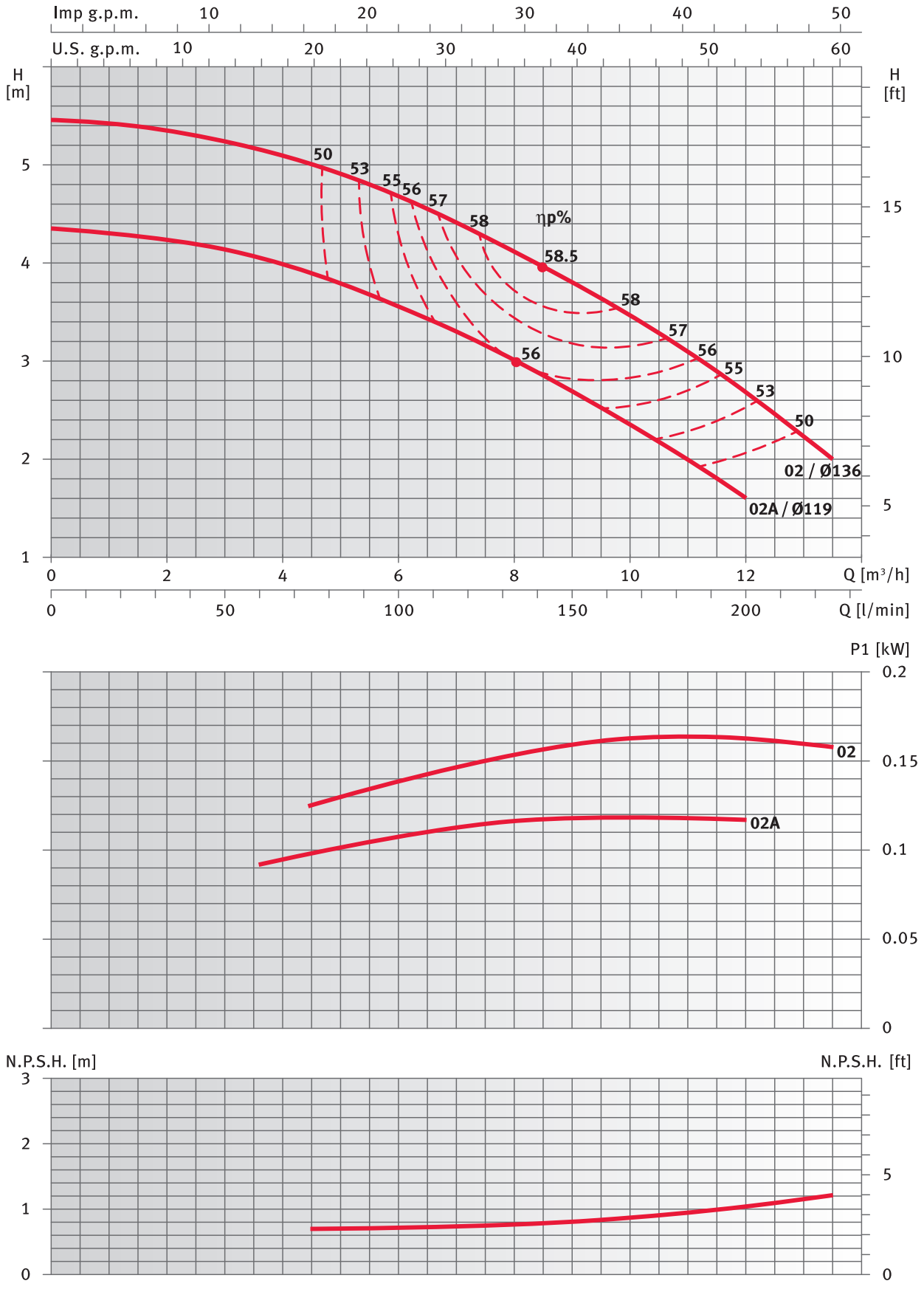






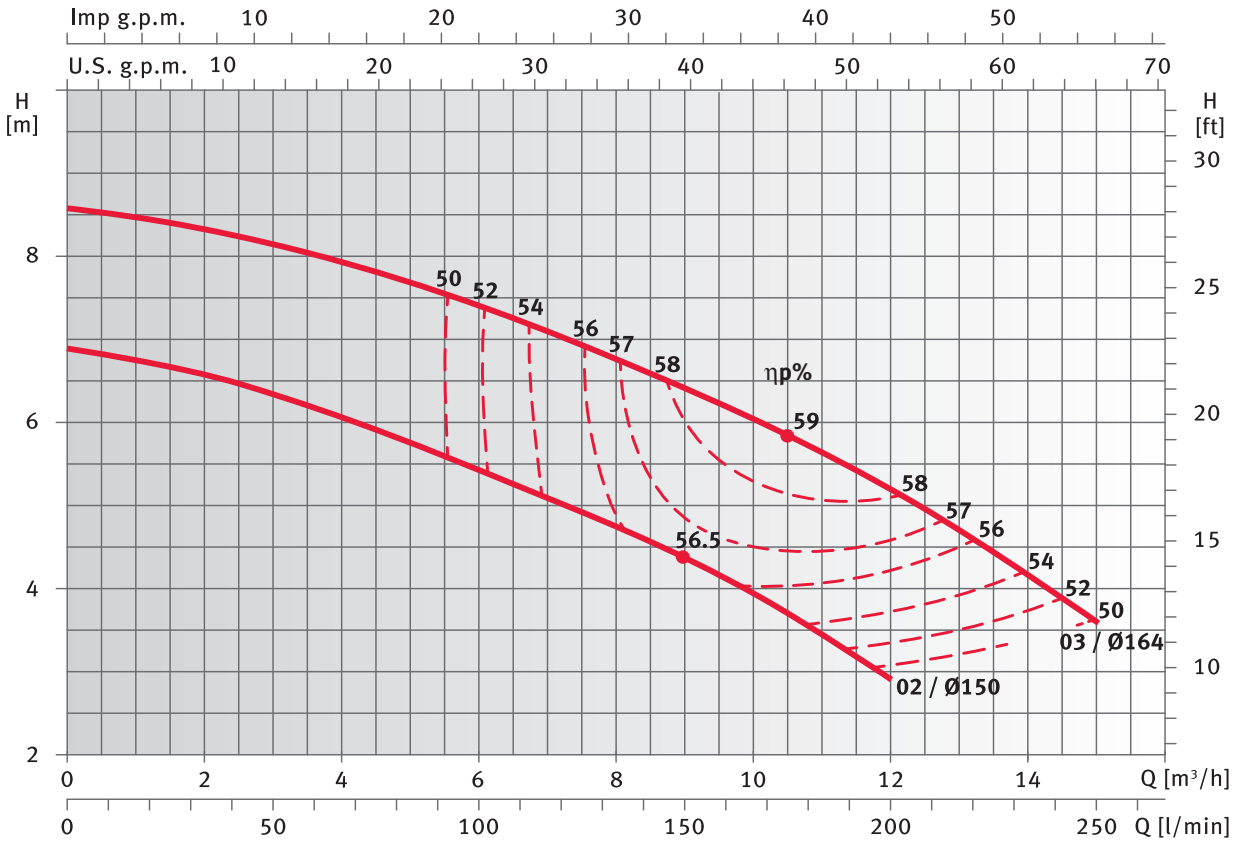
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

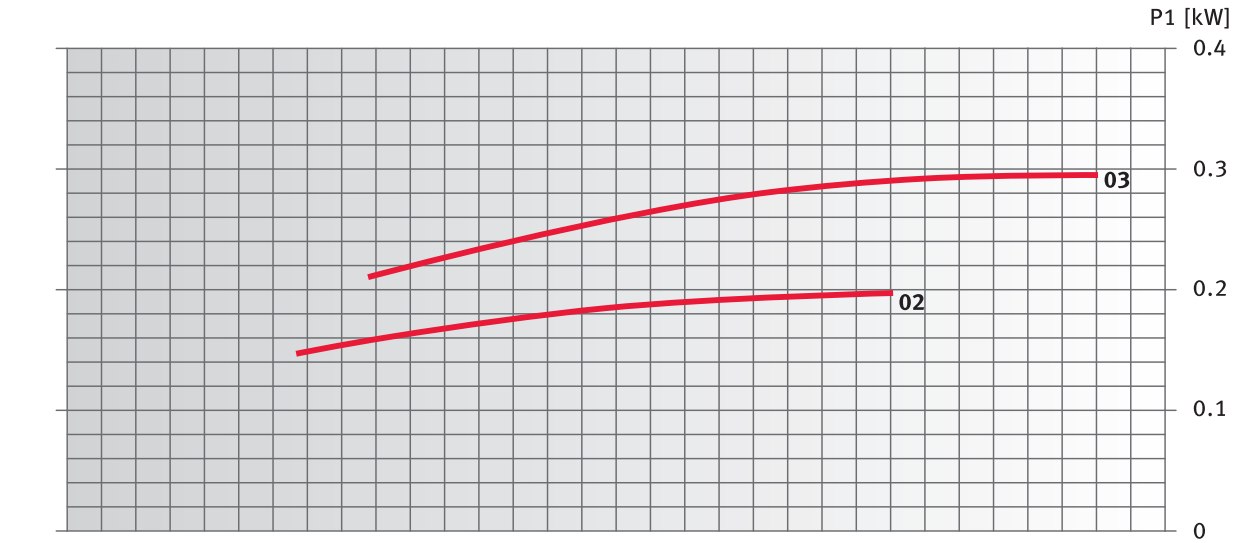
XN4 and XNF4 32 - 125 series

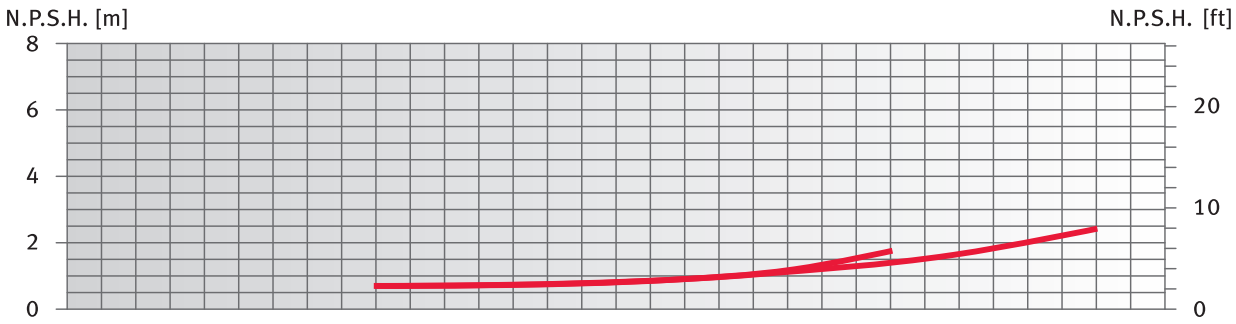


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4 and XNF4 32 - 160 series

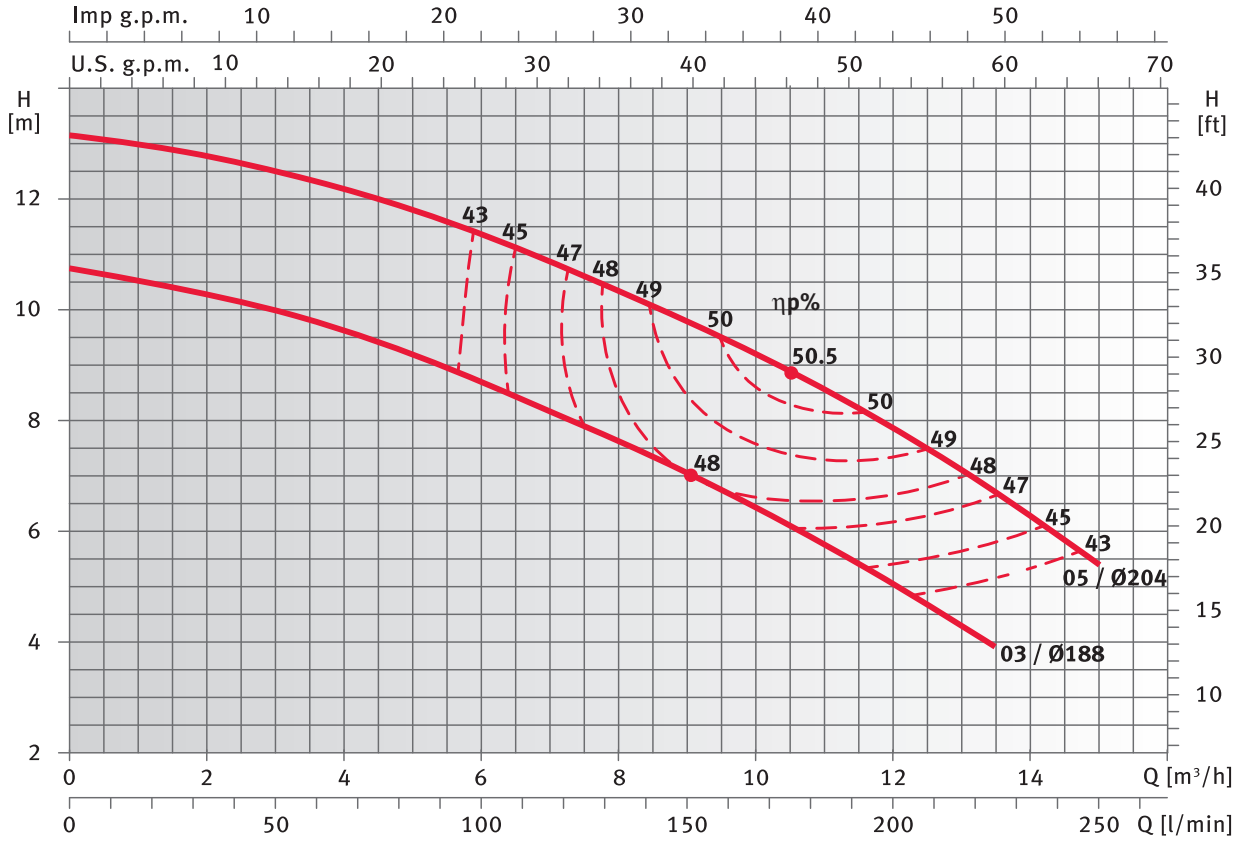


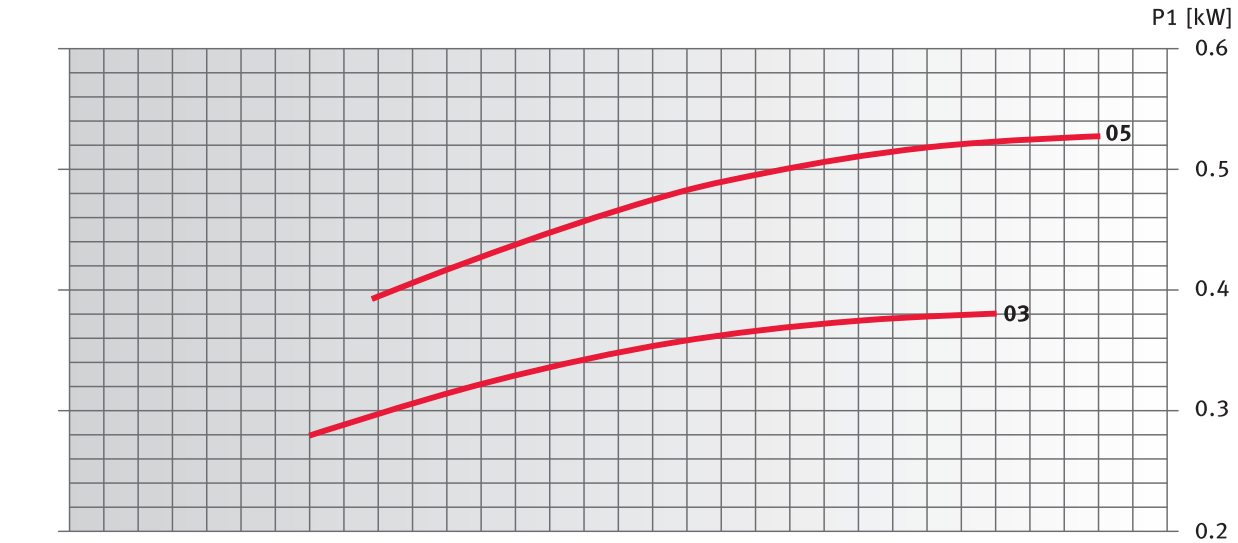


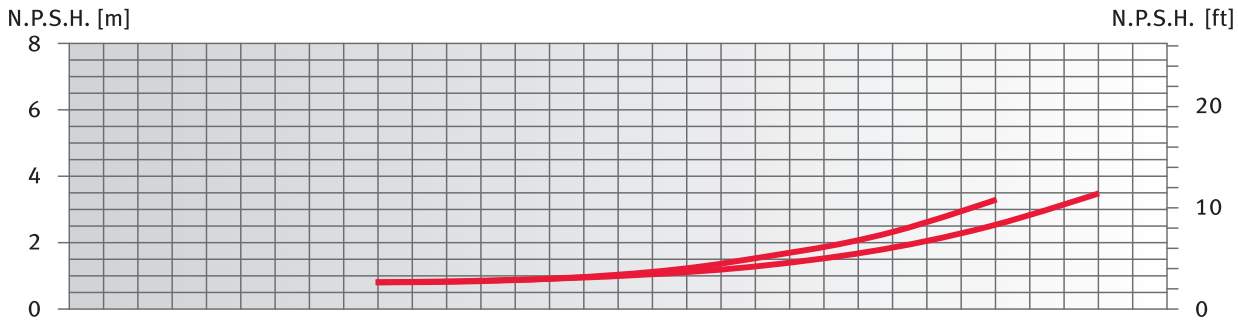


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4 and XNF4 32 - 200 series

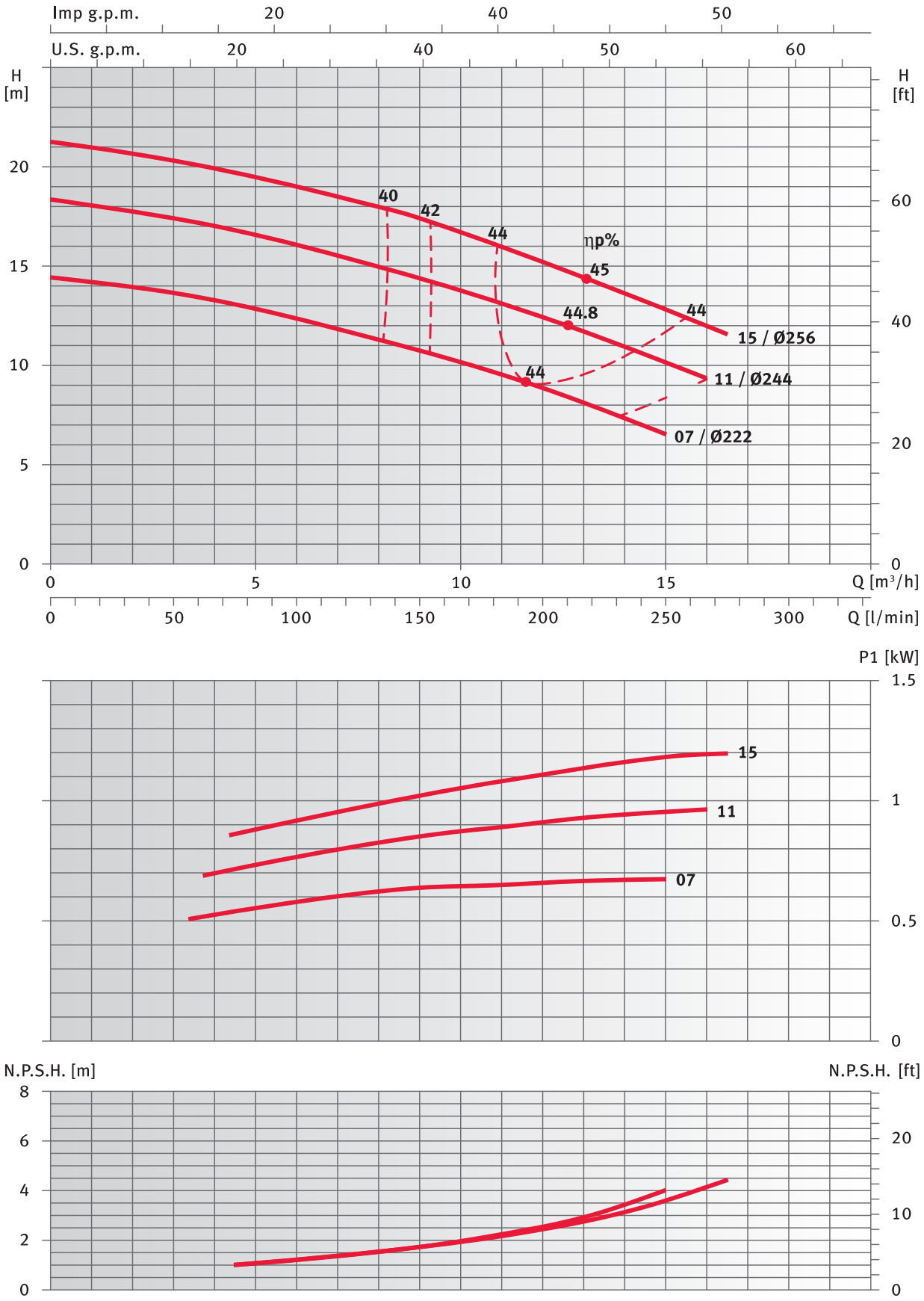






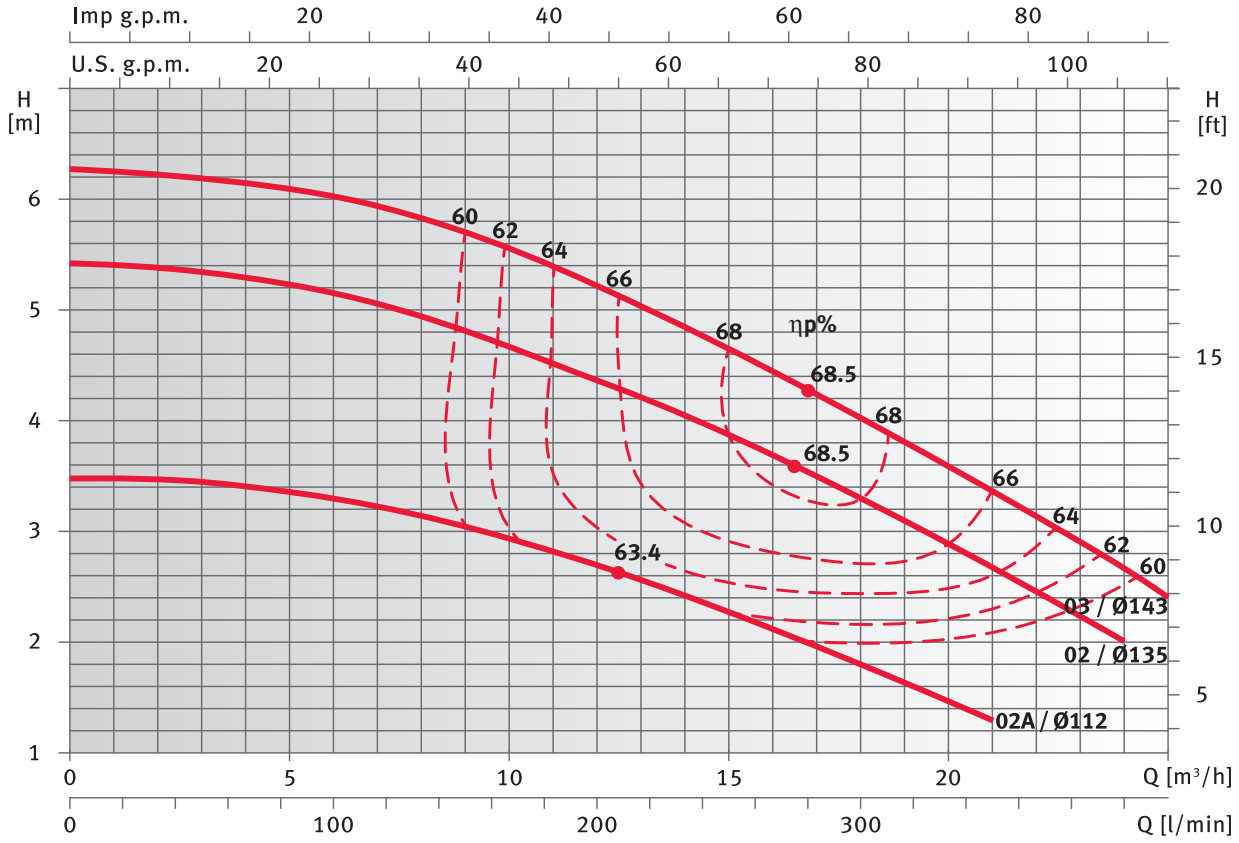
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

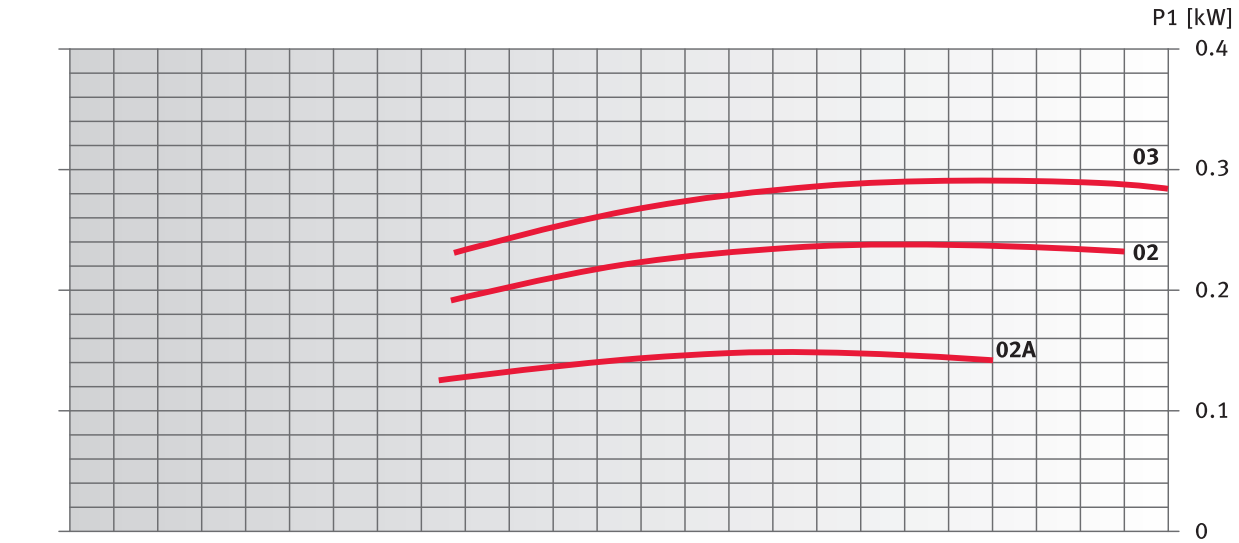
XN4, XNS4 and XNF4 32 - 250 series

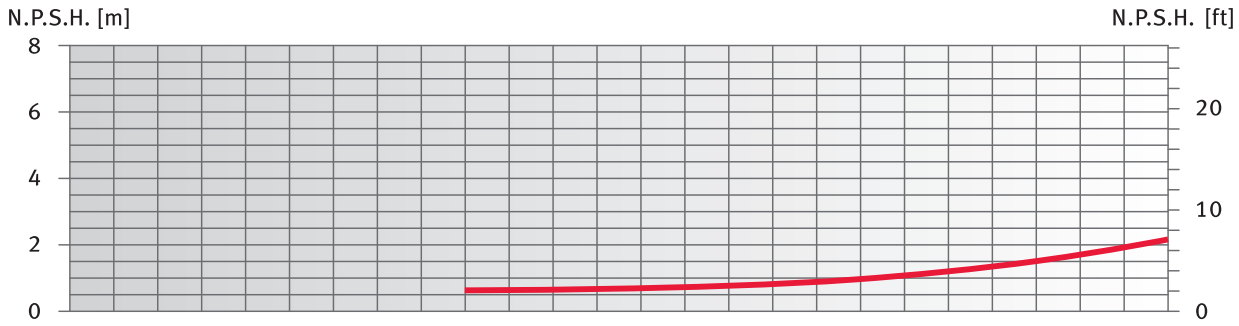


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4 and XNF4 40 - 125 series

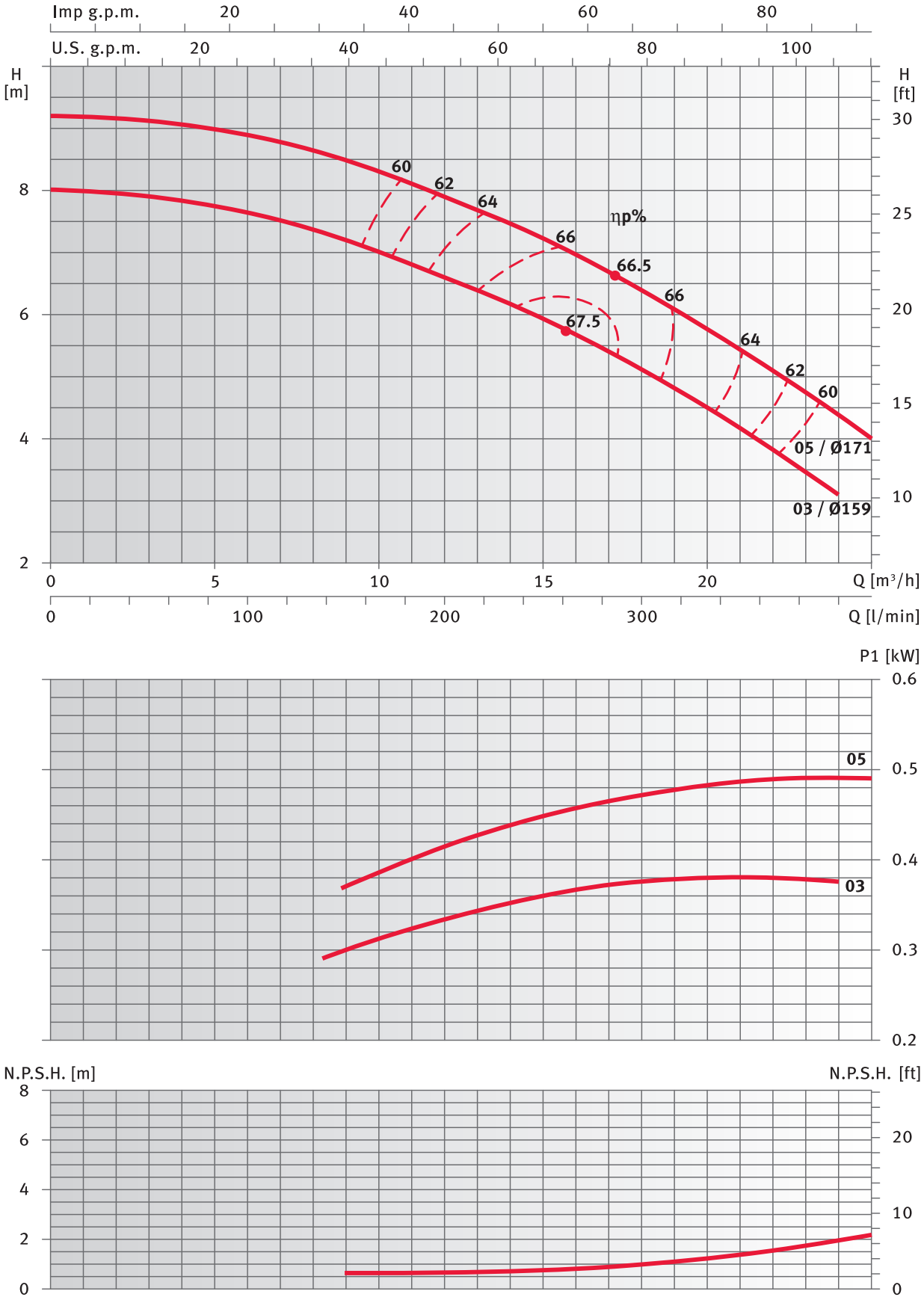






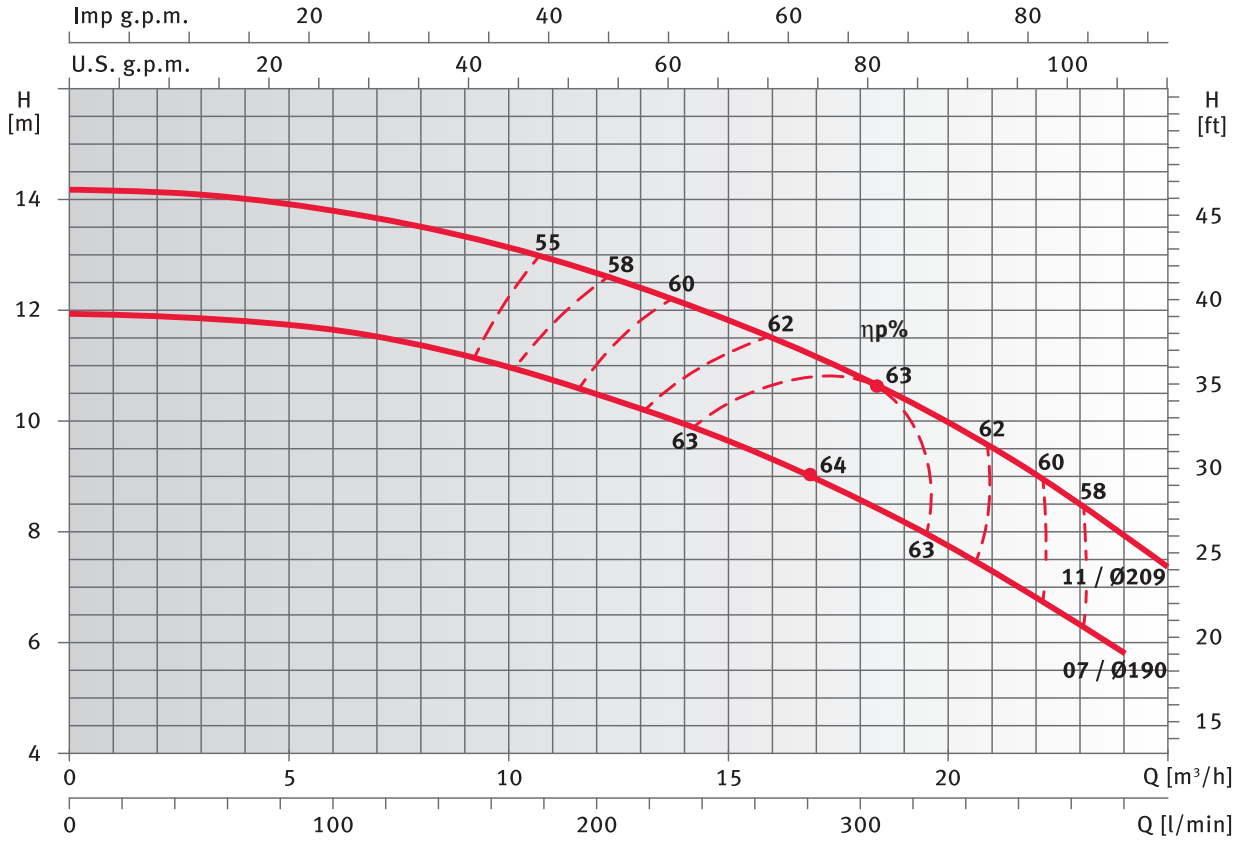
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

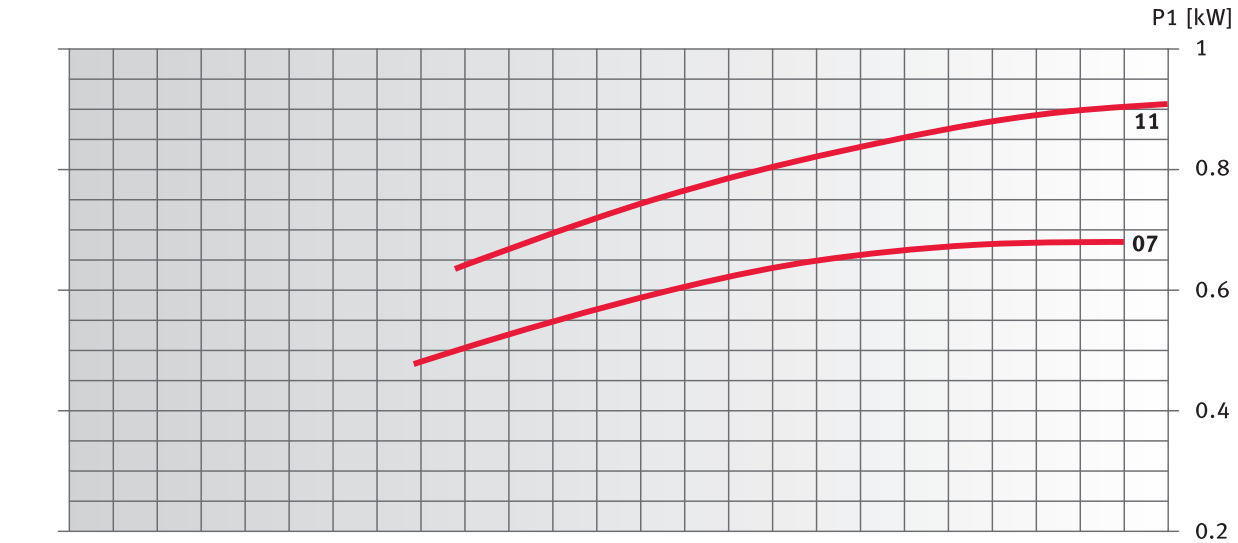
XN4 and XNF4 40 - 160 series

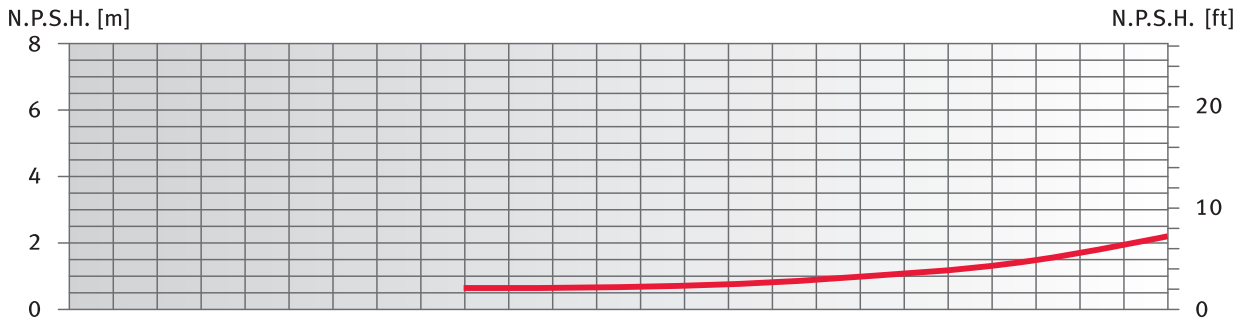


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN4, XNS4 and XNF4 40 - 200 series

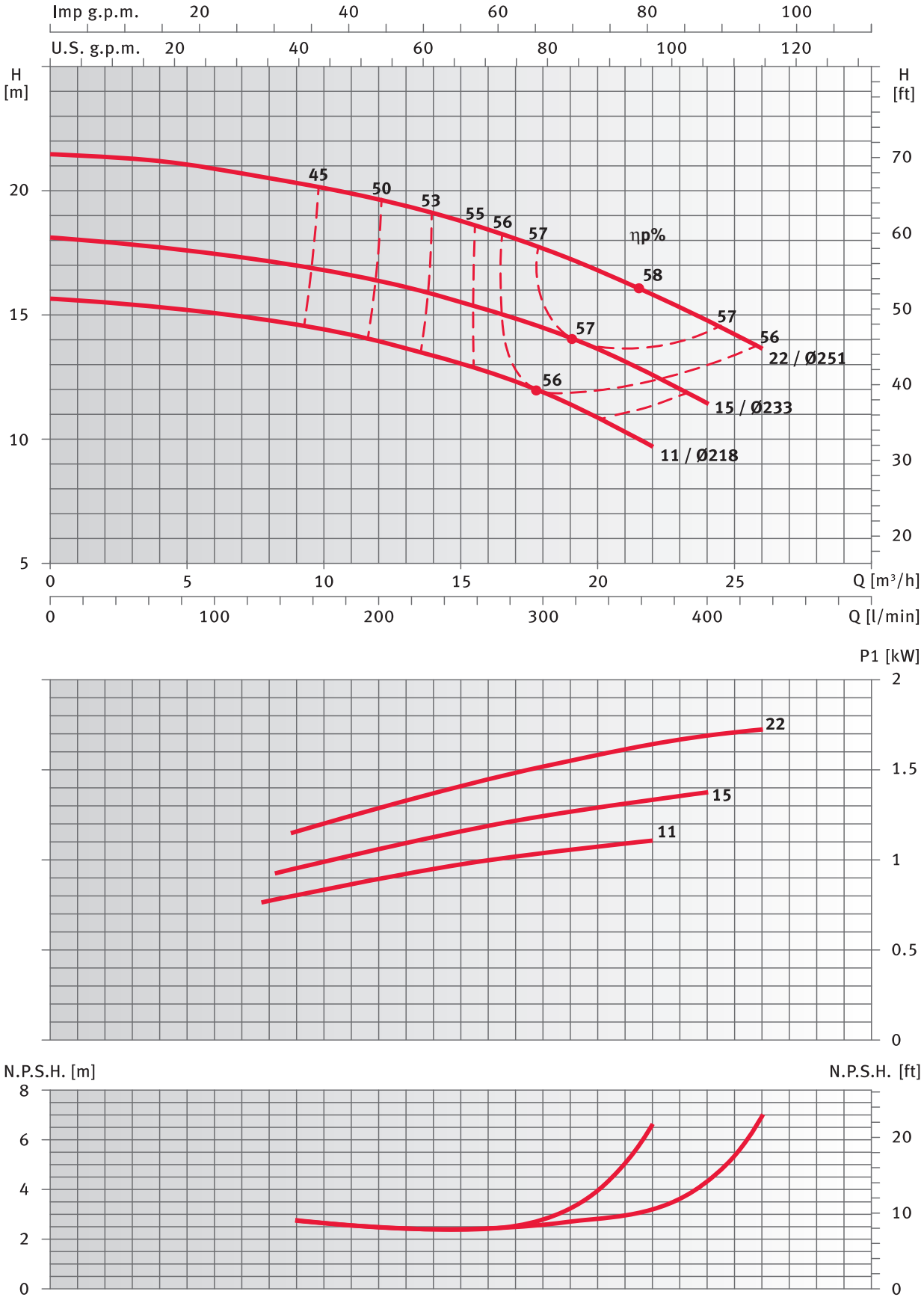






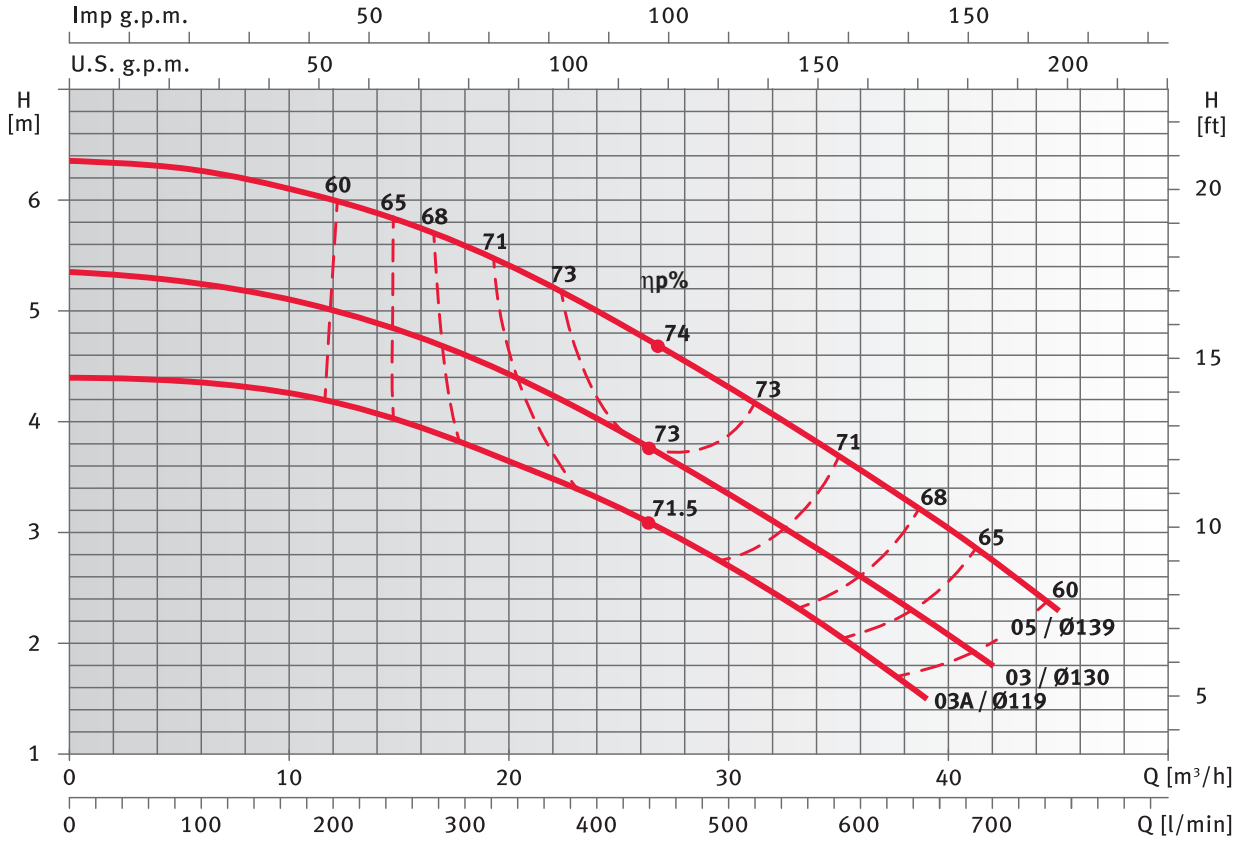
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

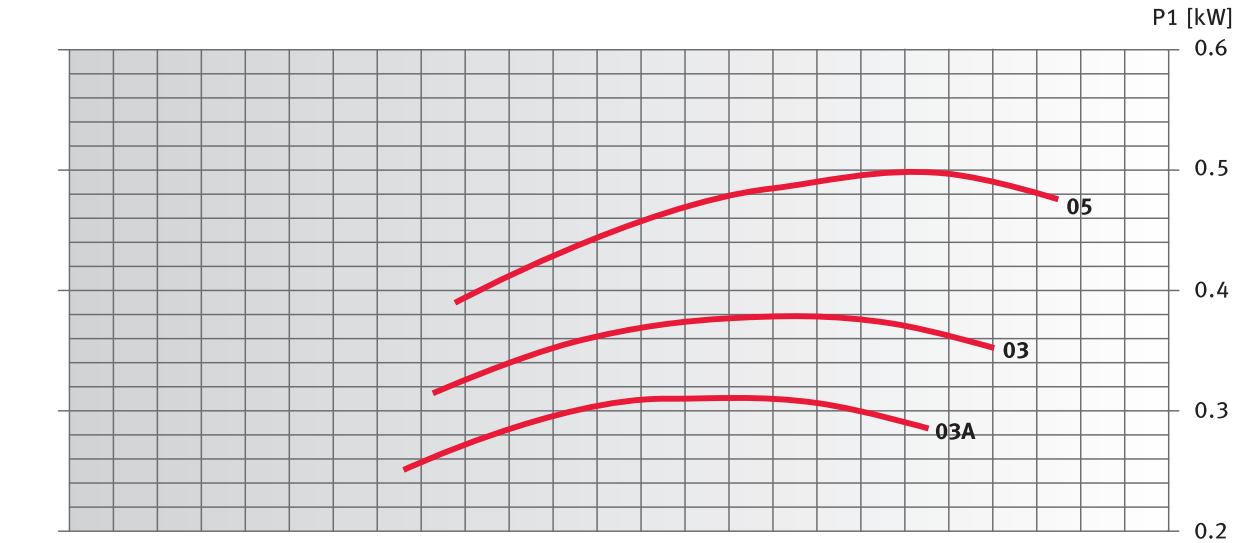
XN4, XNS4 and XNF4 40 - 250 series

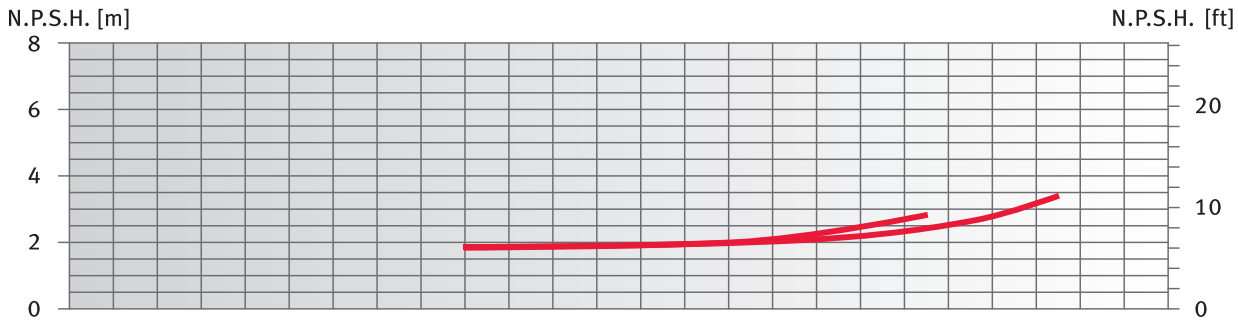


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN4 and XNF4 50 - 125 series

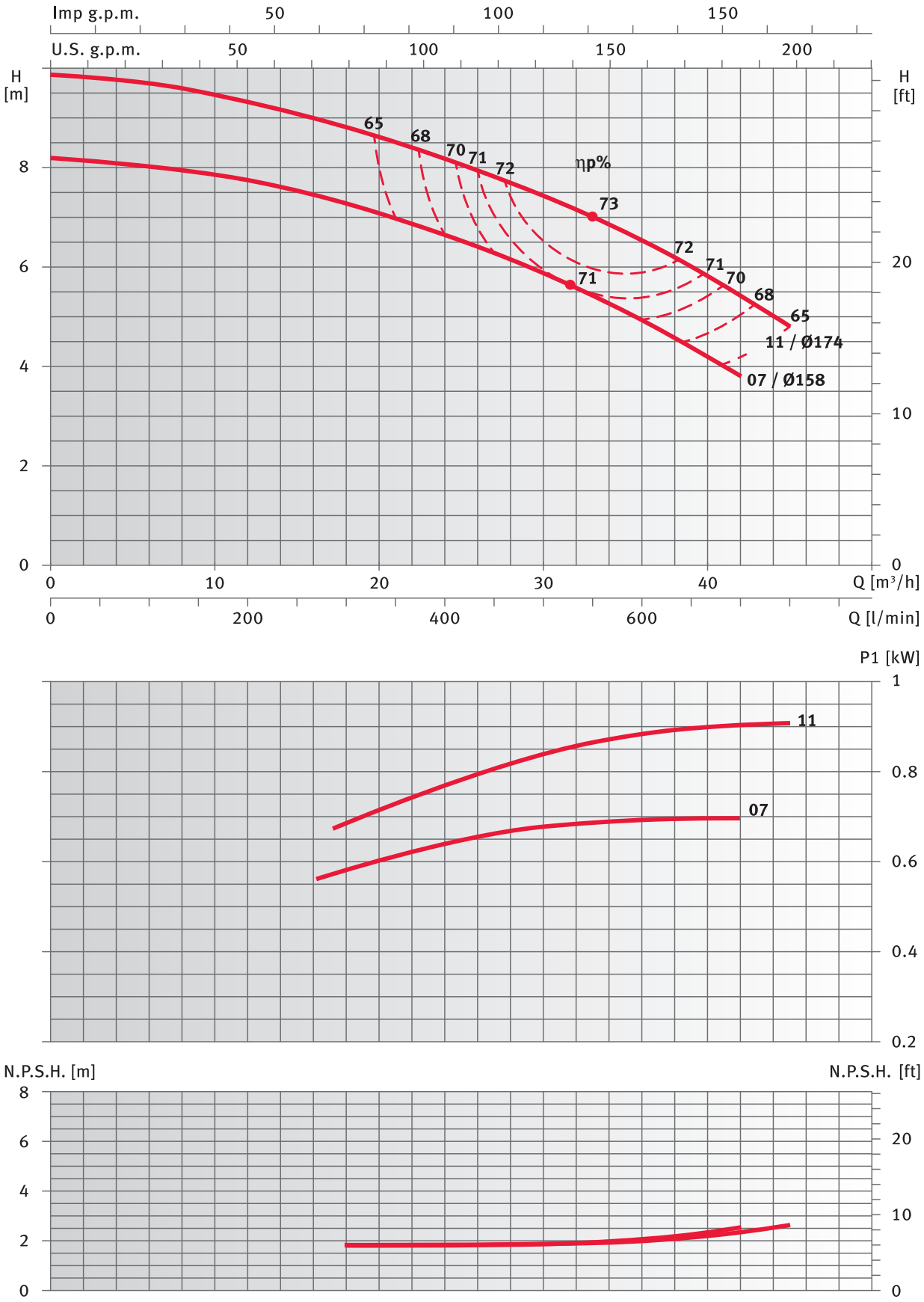






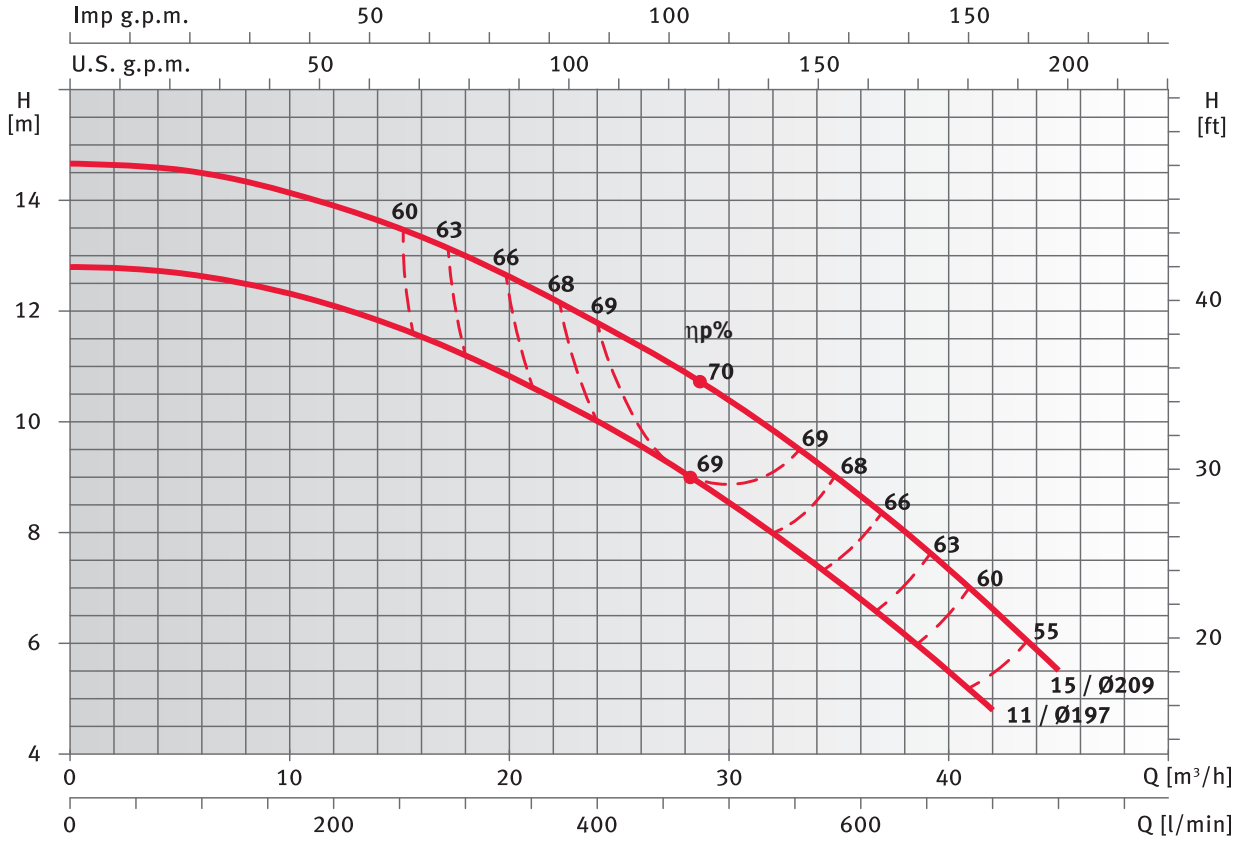
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

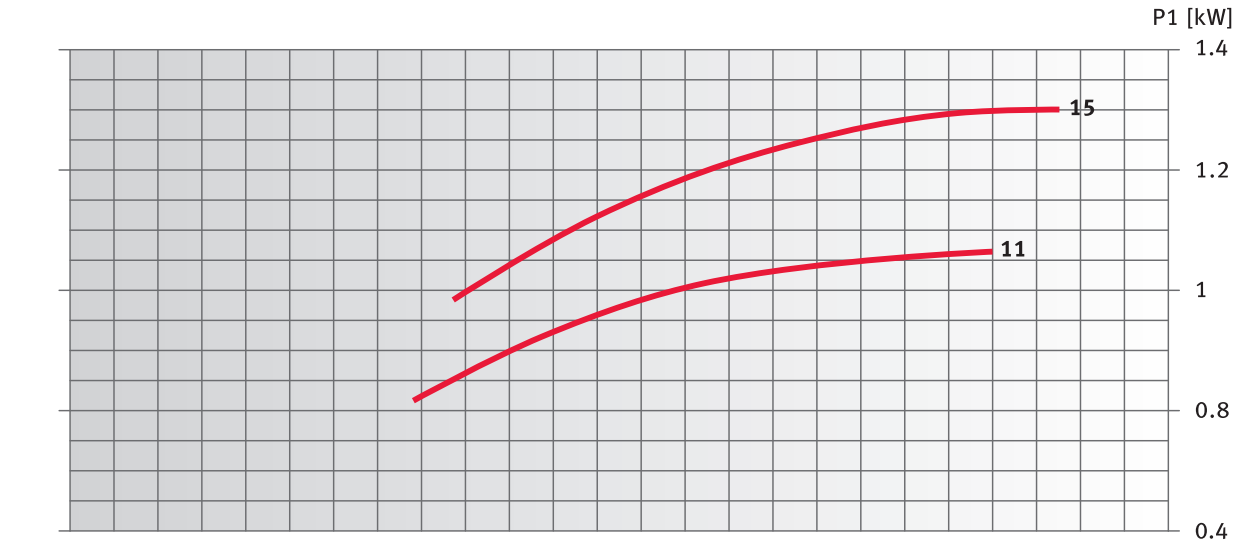
XN4, XNS4 and XNF4 50 - 160 series

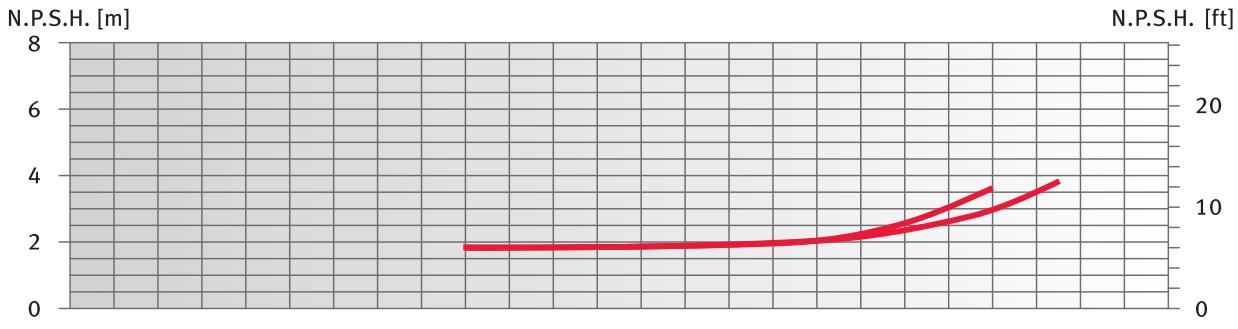


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN4, XNS4 and XNF4 50 - 200 series

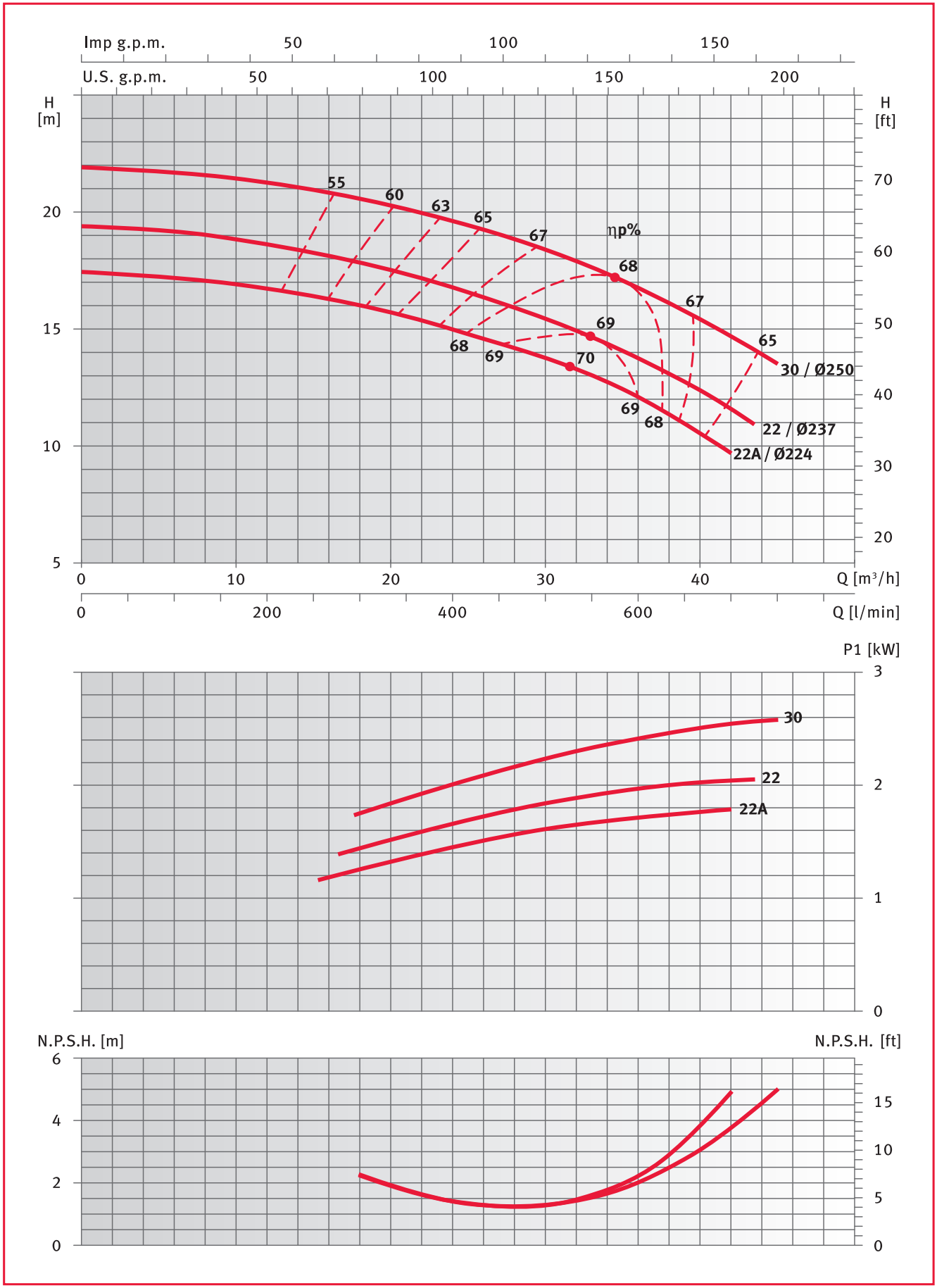






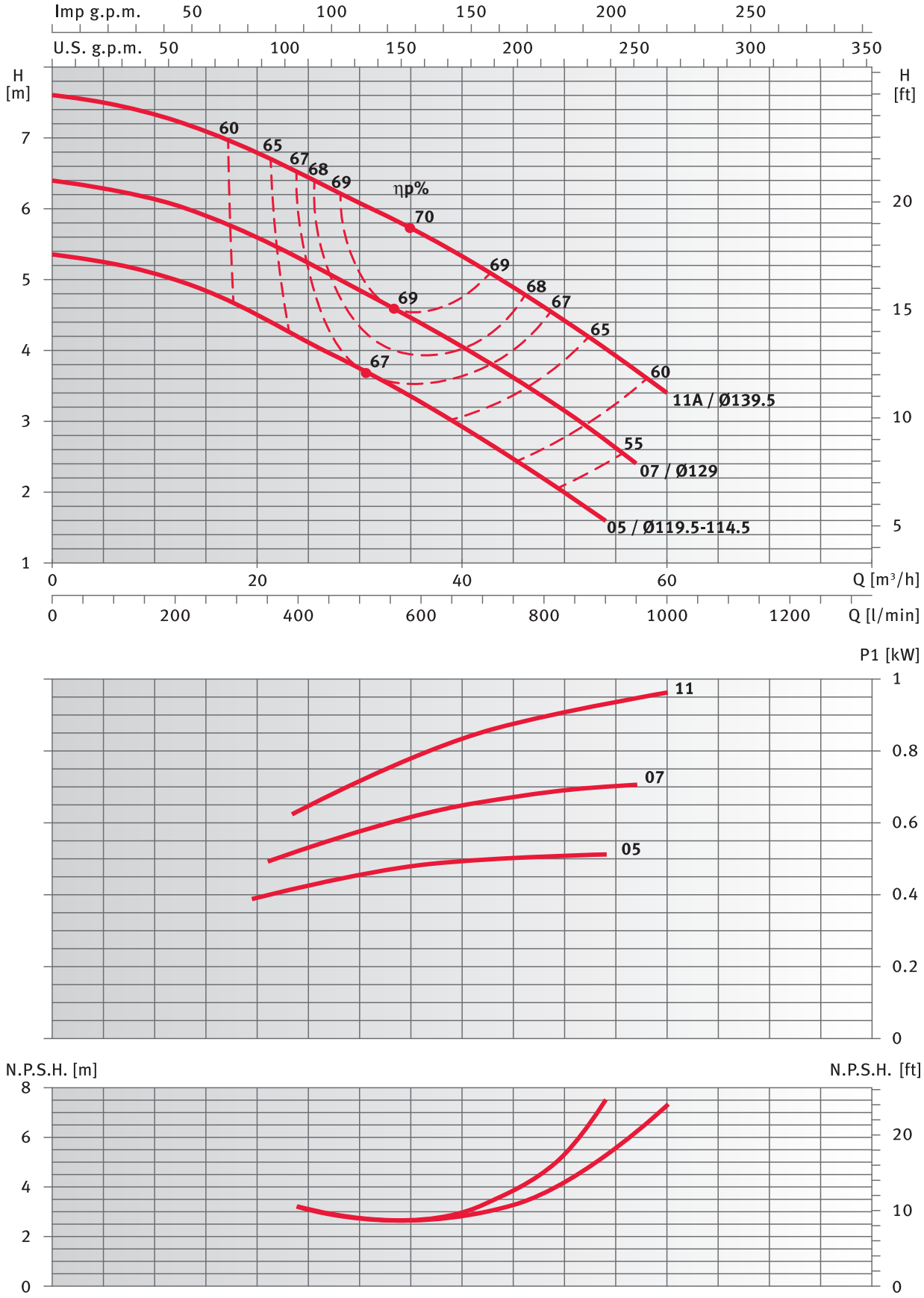
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4, XNS4 and XNF4 50 - 250 series



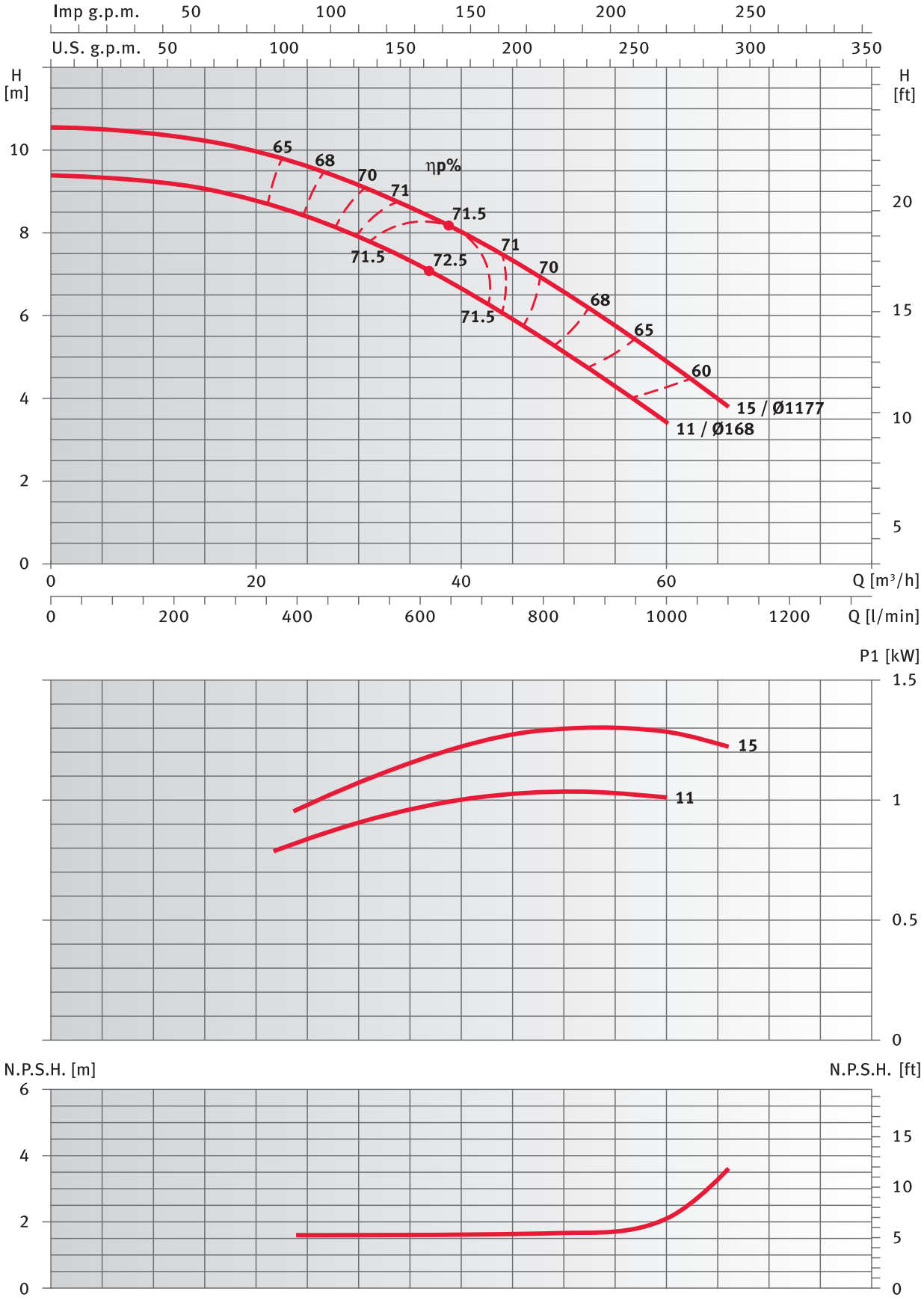
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN4, XNS4 and XNF4 65 - 160 series



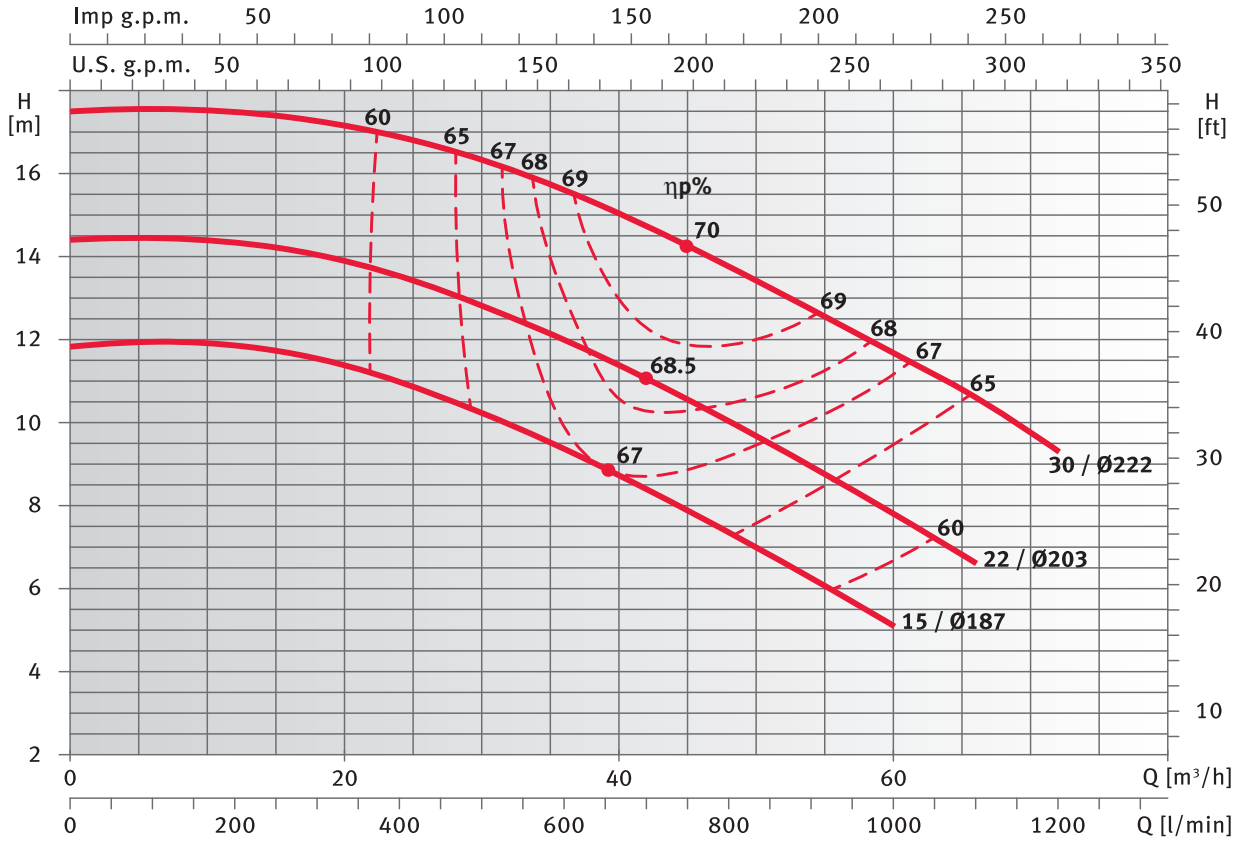
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

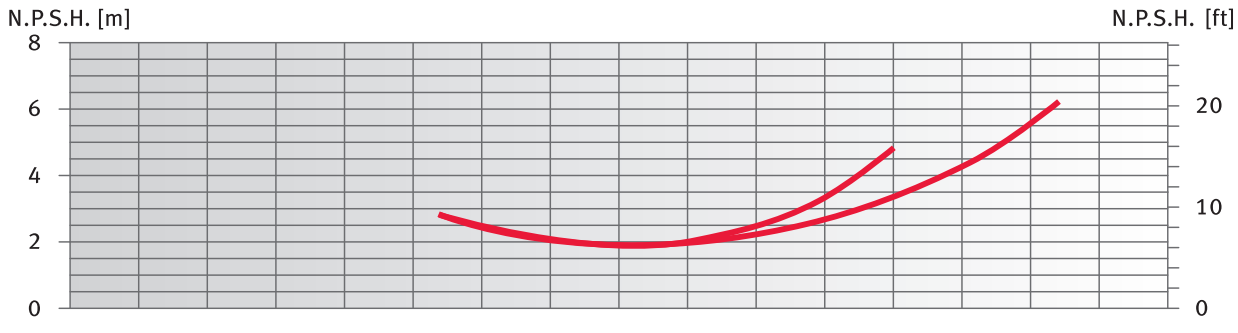
XN4, XNS4 and XNF4 65 - 160 series



The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

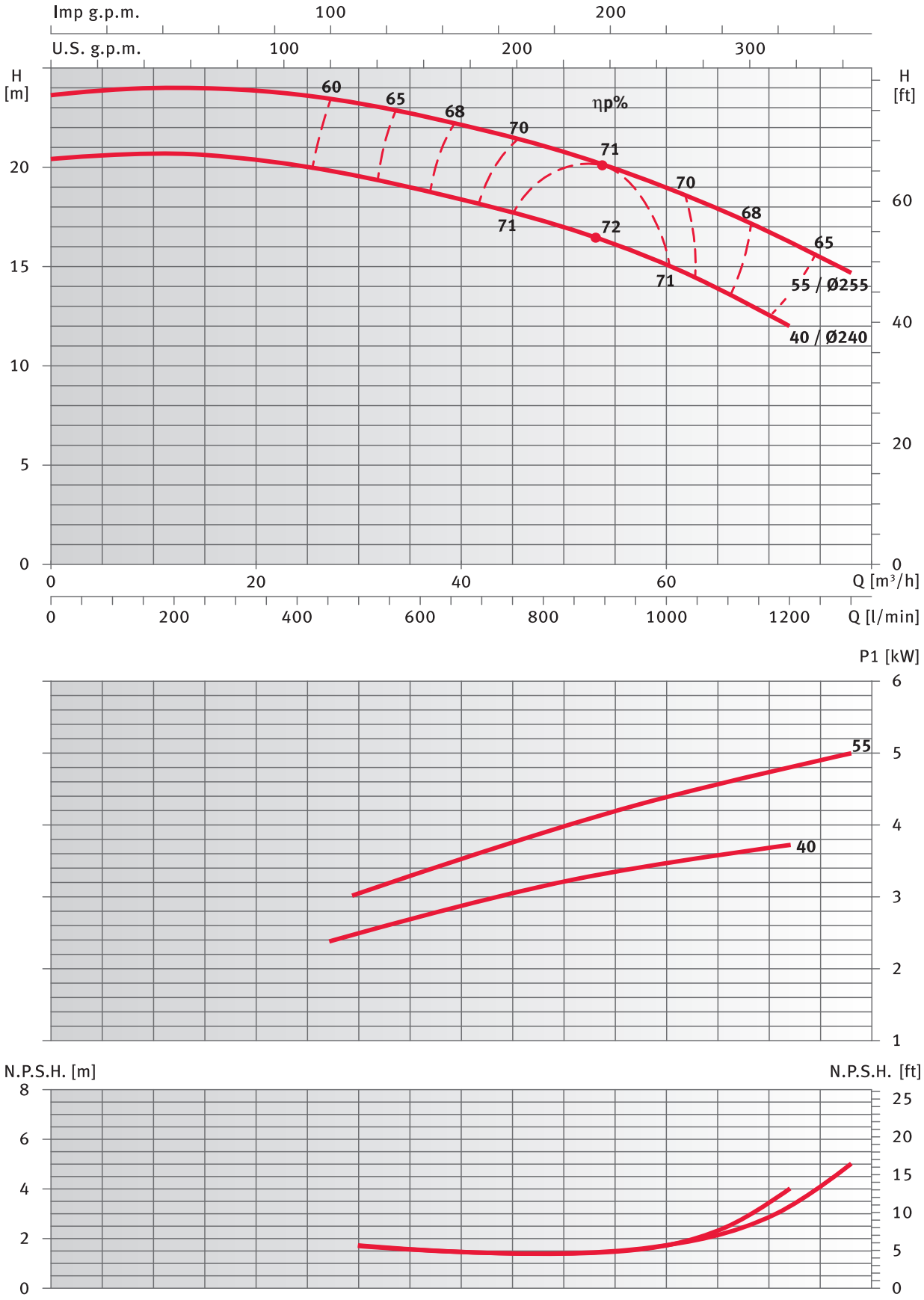
XN4, XNS4 and XNF4 65 - 200 series





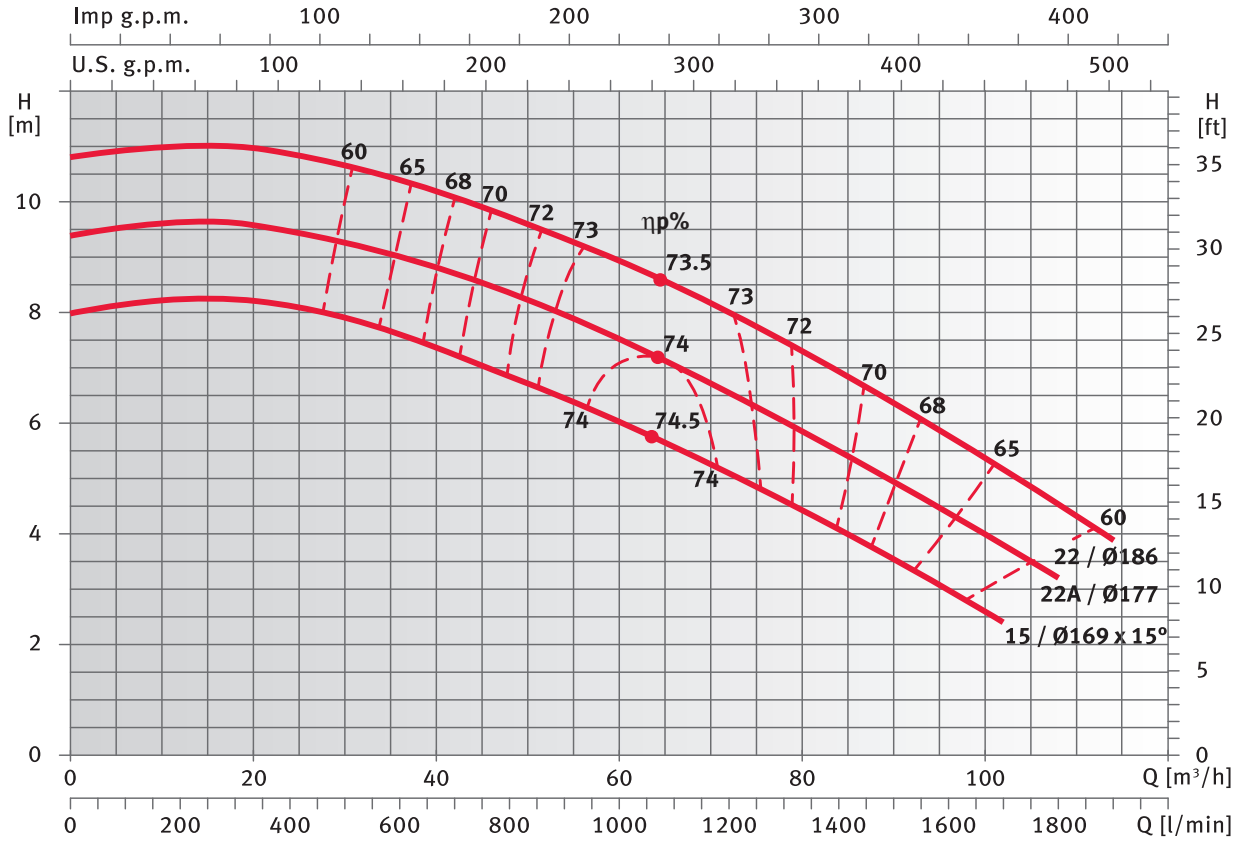
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

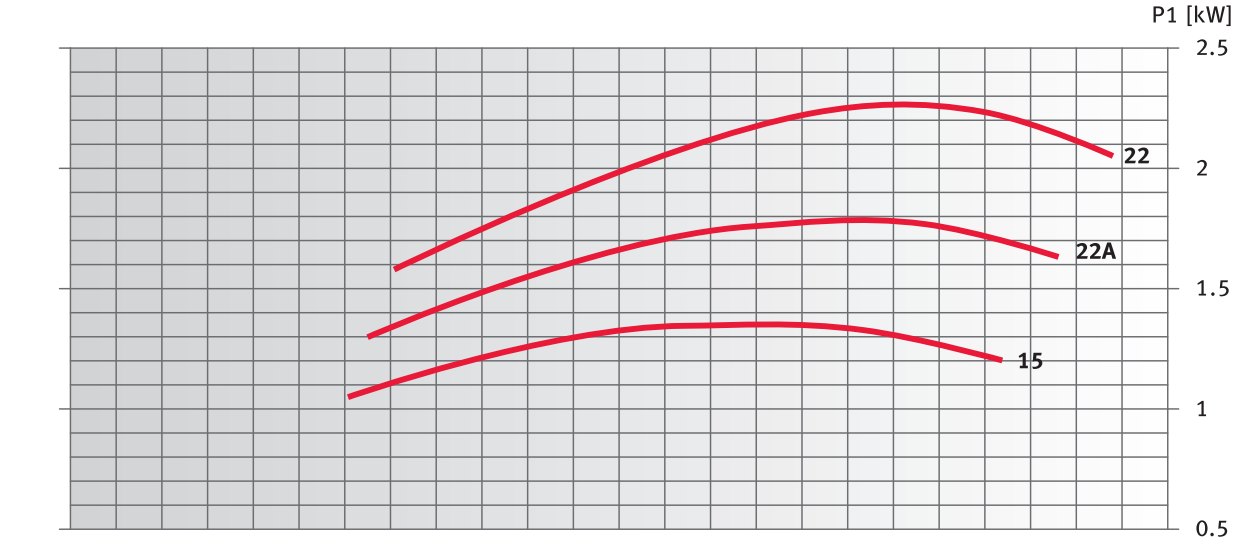
XN4, XNS4 and XNF4 65 - 250 series



The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

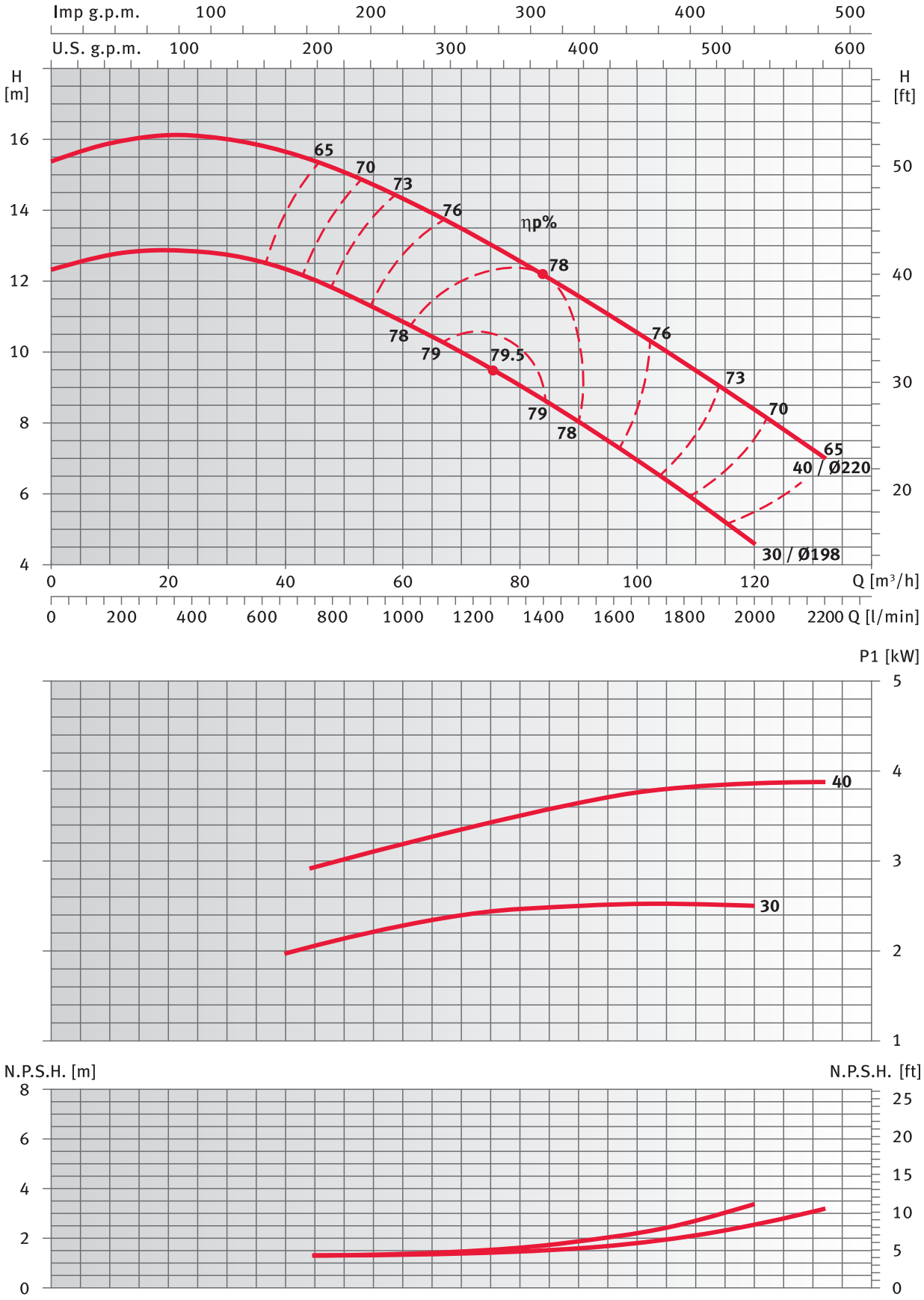
XN4, XNS4 and XNF4 80 - 160 series





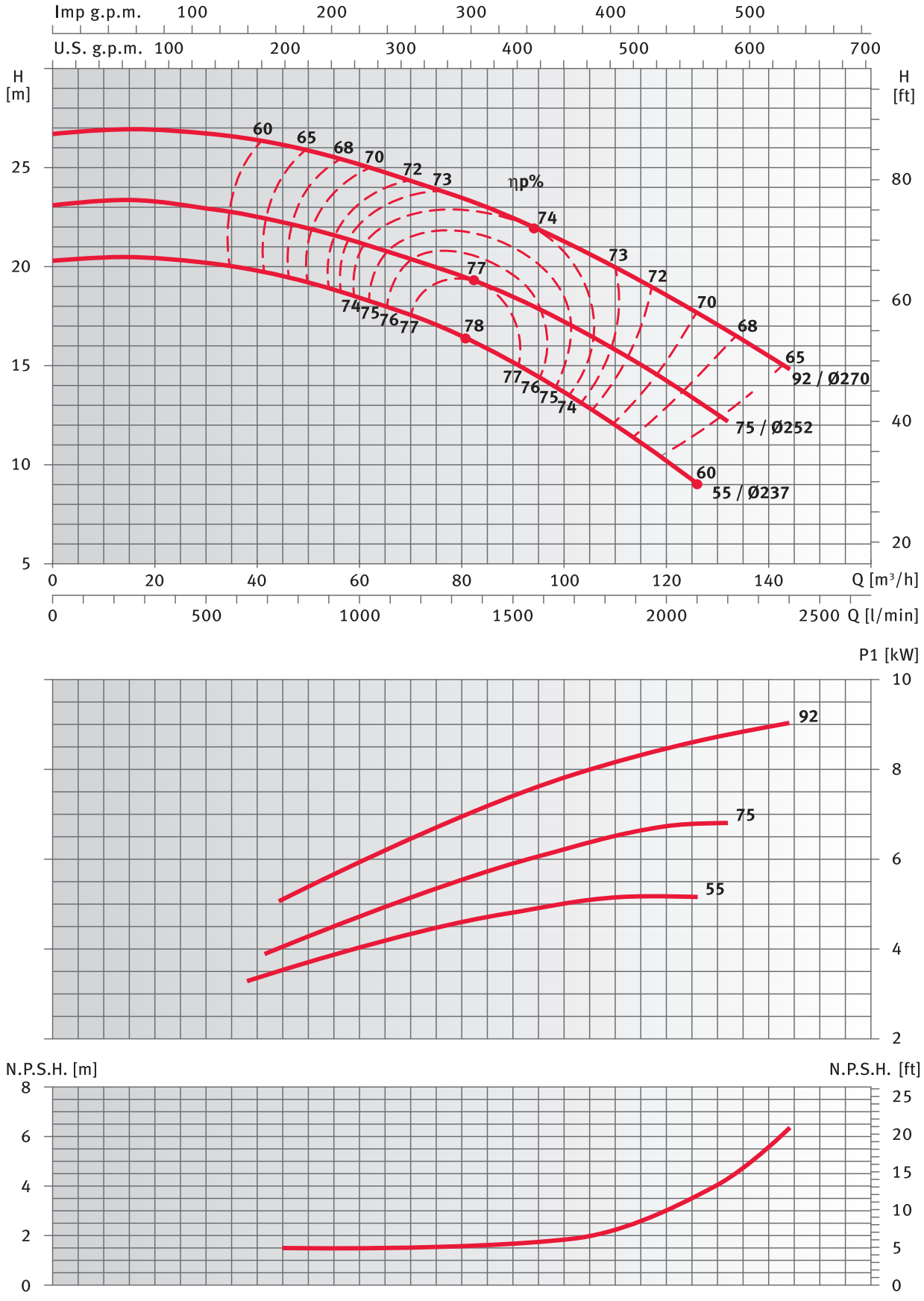
The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN4, XNS4 and XNF4 80 - 200 series



The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density $\rho = 1{,}0$ kg/dm³ and kinematic viscosity $\upsilon = 1$ mm²/sec.

XN4, XNS4 and XNF4 80 - 250 series

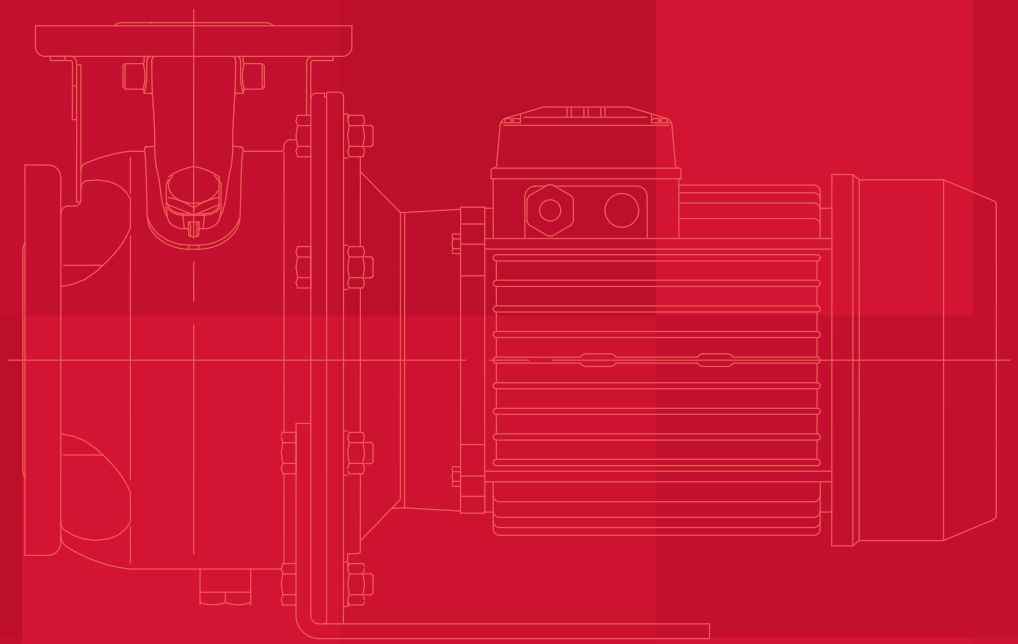


The NPSH values are laboratory values: for practical use we suggest increasing these values by 0,5 m.
The performances are valid for liquids with density ρ = 1,0 kg/dm³ and kinematic viscosity υ = 1 mm²/sec.

XN Series

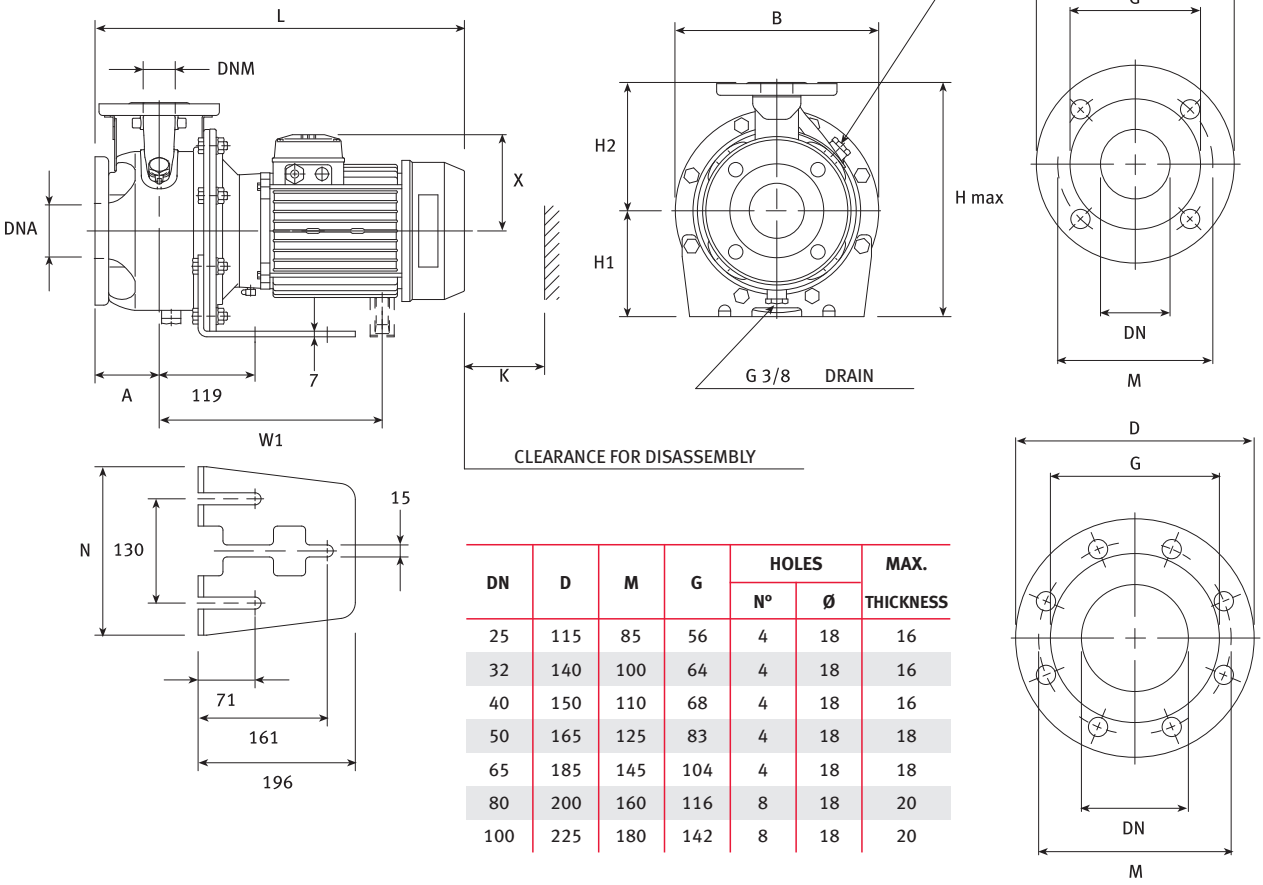
Dimensions, weights and accessories

50 Hz



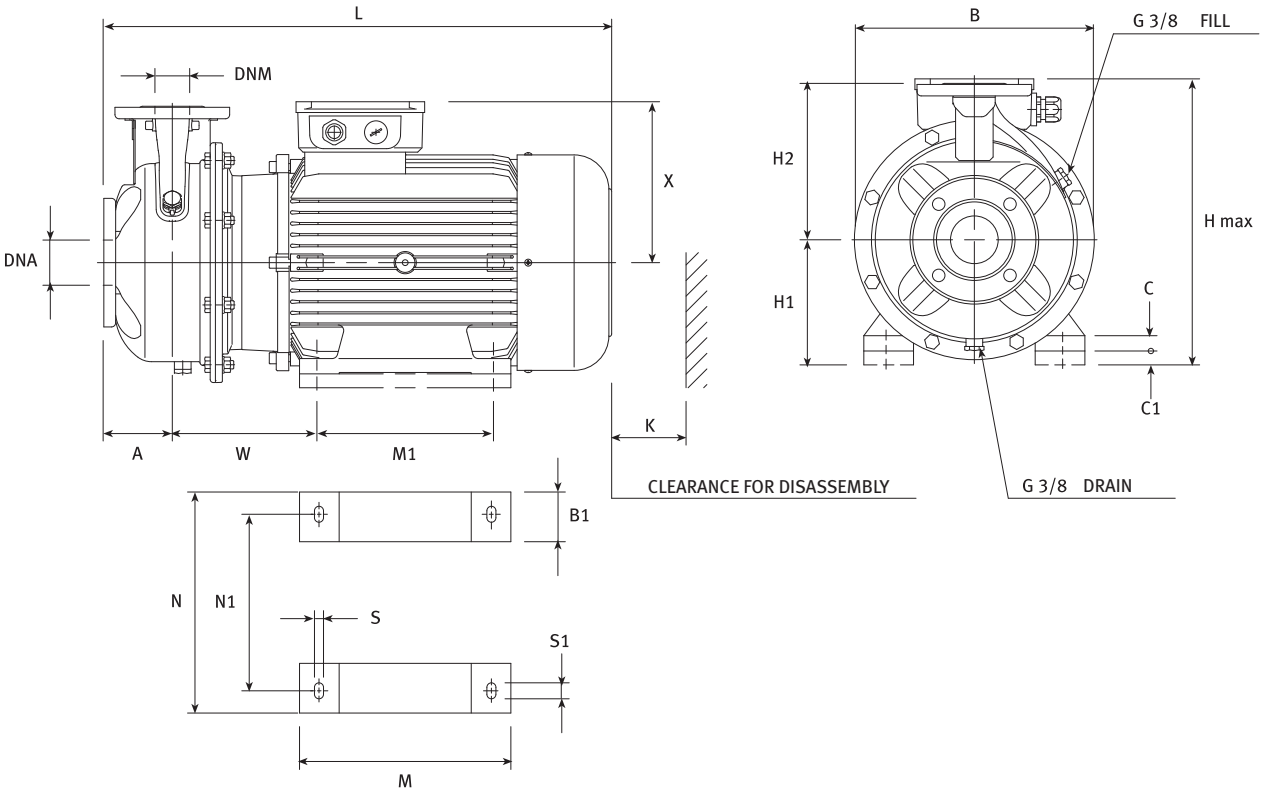
XN series

XN with pump support foot motors up to 11 kW



DN	D	M	G	HOLES		MAX.
				Nº	Ø	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

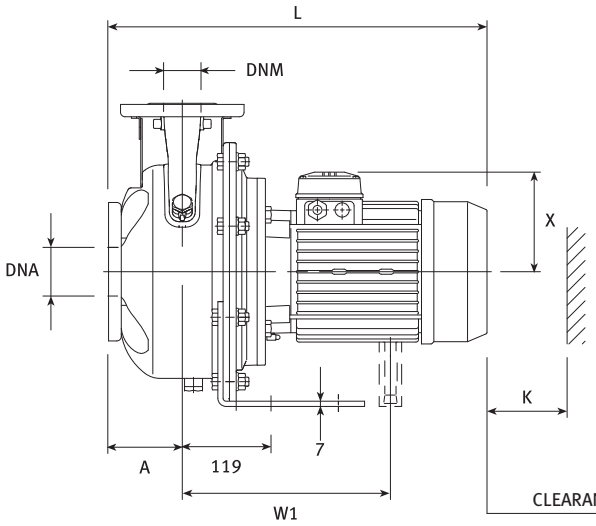
XN with support under the motor 15 to 22 kW motors

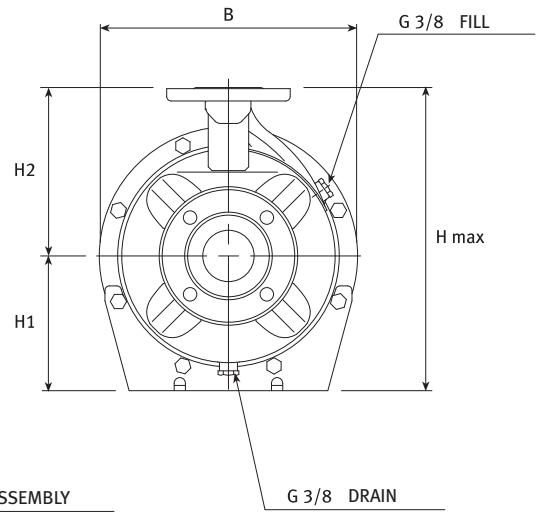


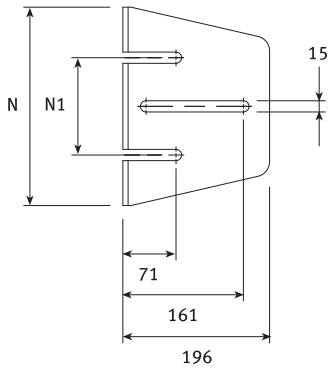
XN series

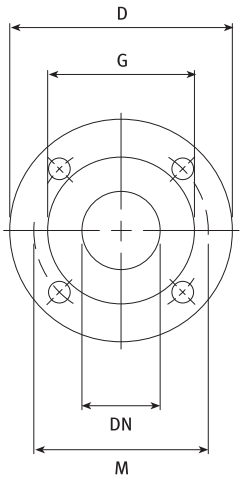
PUMP	DIMENSIONS (mm)																					WEIGHT
	PUMP							SUPPORT										B	H	L	K	
TYPE	DNM	DNA	A	H2	W	W1	X	B1	C	C1	H1	M	M1	N	N1	S	S1		max			kg
XN25 125/07	25	50	80	140			137				160			190				218	300	467	98	16.1
XN25 125/11	25	50	80	140			137				160			190				218	300	430	98	18.7
XN25 160/15	25	50	80	160			181				160			210				253	320	440	98	19
XN25 160/22	25	50	80	160			181				160			210				253	320	495	98	22
XN25 200/30	25	50	80	180			152				160			230				284	340	484	98	34.3
XN25 200/40	25	50	80	180			180				160			230				284	340	515	98	24.7
XN25 250/55	25	50	100	225			193				180			265				345	405	535	98	55.5
XN25 250/75	25	50	100	225			193				180			265				345	405	599	98	61
XN25 250/110	25	50	100	225		278	230				180			265				345	405	707	98	77
XN32 125/07	32	50	80	140			137				112			190				218	252	467	98	16.1
XN32 125/11	32	50	80	140			137				112			190				218	252	430	98	18.7
XN32 160/15	32	50	80	160			181				132			210				253	292	440	98	19
XN32 160/22	32	50	80	160			181				132			210				253	292	495	98	22
XN32 200/30	32	50	80	180			152				160			230				284	340	484	98	34.3
XN32 200/40	32	50	80	180			180				160			230				284	340	515	98	24.7
XN32 250/55	32	50	100	225			193				180			265				345	405	535	98	55.5
XN32 250/75	32	50	100	225			193				180			265				345	405	599	98	61
XN32 250/110	32	50	100	225		278	230				180			265				345	405	707	98	77
XN40 125/11	40	65	80	140			137				112			190				218	252	430	100	19.7
XN40 125/15	40	65	80	140			181				112			190				218	252	440	100	17
XN40 125/22	40	65	80	140			181				112			190				218	252	495	100	23
XN40 160/30	40	65	80	160			152				132			210				253	292	484	100	28.3
XN40 160/40	40	65	80	160			180				132			210				253	292	515	100	23.7
XN40 200/55	40	65	100	180			193				160			230				284	340	535	100	41.5
XN40 200/75	40	65	100	180			193				160			230				284	340	599	100	42
XN40 250/92	40	65	100	225		278	194				180			265				345	405	604	107	84
XN40 250/110	40	65	100	225		278	230				180			265				345	405	707	107	79
XN40 250/150	40	65	100	225	208		230	72	22	20	180	260	210	318	254	13	23	345	424	730	107	121
XN50 125/22	50	65	100	160			181				132			210				253	292	486	104	25.3
XN50 125/30	50	65	100	160			152				132			210				253	292	504	104	29.3
XN50 125/40	50	65	100	160			180				132			210				253	292	535	104	23.7
XN50 160/55	50	65	100	180			193				160			210				253	340	535	104	41.5
XN50 160/75	50	65	100	180			193				160			210				253	340	599	104	44
XN50 200/92	50	65	100	200		278	194				160			245				310	360	604	104	79
XN50 200/110	50	65	100	200		278	230				160			245				310	360	707	104	73
XN50 250/150	50	65	100	225	208		230	72	22	20	180	260	210	318	254	13	23	345	424	730	107	122
XN50 250/185	50	65	100	225	208		230	72	22	20	180	304	254	318	254	13	23	345	424	730	107	121
XN50 250/220	50	65	100	225	208		280	72	22	20	180	304	254	318	254	13	23	345	424	790	107	189
XN65 160/40	65	80	100	200			180				160			245				310	360	535	130	39.7
XN65 160/55	65	80	100	200			193				160			245				310	360	535	130	52.5
XN65 160/75	65	80	100	200			193				160			245				310	360	599	130	57
XN65 160/92	65	80	100	200		278	194				160			245				310	360	604	130	90
XN65 160/110	65	80	100	200		278	230				160			245				310	360	707	130	87
XN65 200/150	65	80	100	225	208		230	72	22	20	180	260	210	318	254	13	23	310	424	730	130	122
XN65 200/185	65	80	100	225	208		230	72	22	20	180	304	254	318	254	13	23	310	424	730	130	109
XN65 200/220	65	80	100	225	208		280	72	22	20	180	304	254	318	254	13	23	310	424	790	130	183
XN80 160/110	80	100	125	225		278	230				180			265				345	405	732	160	79
XN80 160/150	80	100	125	225	208		230	72	22	20	180	260	210	318	254	13	23	345	424	755	160	129
XN80 160/185	80	100	125	225	208		230	72	22	20	180	304	254	318	254	13	23	345	424	755	160	126
XN80 200/220	80	100	125	250	208		280	72	22	20	180	304	254	318	254	13	23	345	430	815	160	198

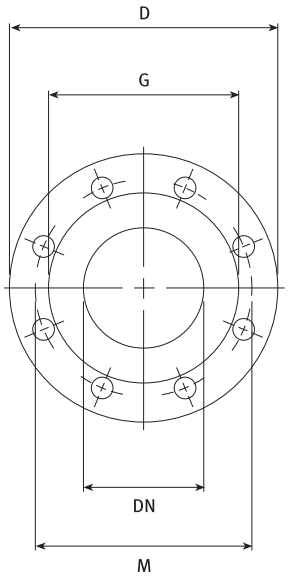
XN4 series











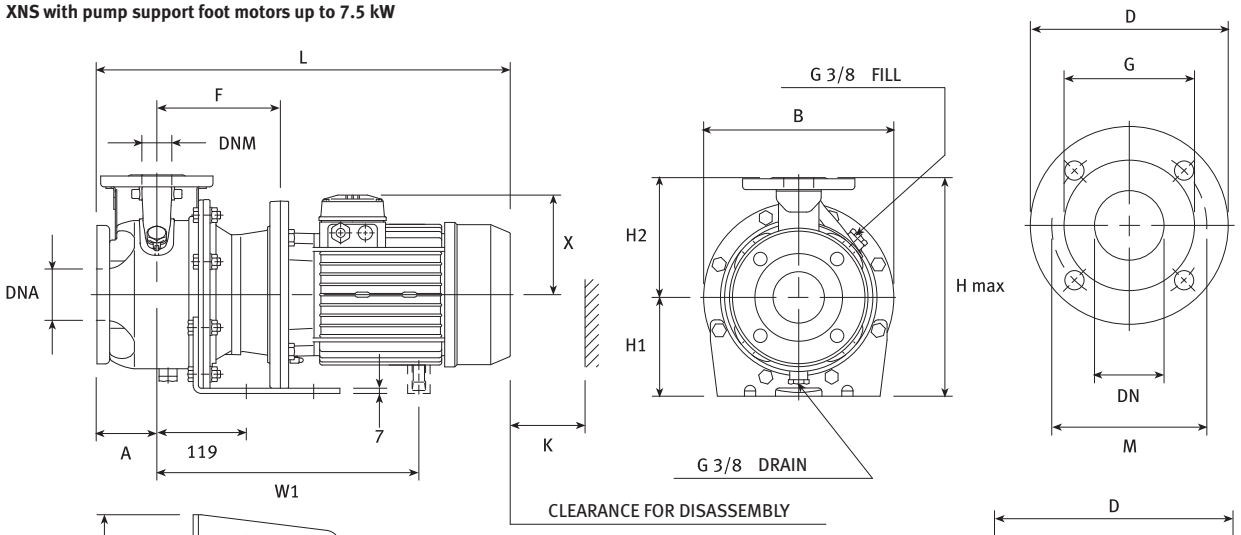
DN	D	M	G	HOLES		MAX.
				N°	Ø	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

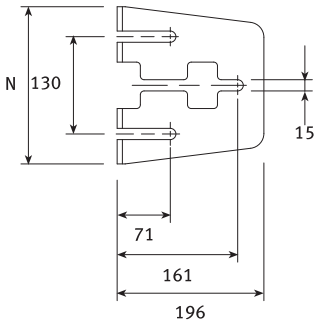
XN4 series

PUMP	DIMENSIONS (mm)													WEIGHT
	PUMP						SUPPORT			B	H	L	K	
TYPE	DNM	DNA	A	H2	W1	X	H1	N	N1		max			kg
XN4 25 125/02A	25	50	80	140		121	160	190	130	218	300	411	98	15
XN4 25 125/02	25	50	80	140		121	160	190	130	218	300	411	98	16
XN4 25 160/02	25	50	80	160		121	160	210	130	253	320	411	98	18
XN4 25 160/03	25	50	80	160		117	160	210	130	253	320	426	98	19
XN4 25 200/03	25	50	80	180		117	160	230	130	284	340	426	98	26
XN4 25 200/05	25	50	80	180		117	160	230	130	284	340	436	98	27
XN4 25 250/07	25	50	100	225		137	180	265	130	345	405	487	98	41
XN4 25 250/11	25	50	100	225		137	180	265	130	345	405	468	98	43
XN4 25 250/15	25	50	100	225		181	180	265	130	345	405	478	98	45
XN4 32 125/02A	32	50	80	140		121	112	190	130	218	252	411	98	15
XN4 32 125/02	32	50	80	140		121	112	190	130	218	252	411	98	16
XN4 32 160/02	32	50	80	160		121	132	210	130	253	292	411	98	18
XN4 32 160/03	32	50	80	160		117	132	210	130	253	292	426	98	19
XN4 32 200/03	32	50	80	180		117	160	230	130	284	340	426	98	26
XN4 32 200/05	32	50	80	180		117	160	230	130	284	340	436	98	27
XN4 32 250/07	32	50	100	225		137	180	265	130	345	405	487	98	41
XN4 32 250/11	32	50	100	225		137	180	265	130	345	405	468	98	43
XN4 32 250/15	32	50	100	225		181	180	265	130	345	405	478	98	45
XN4 40 125/02A	40	65	80	140		121	112	190	130	218	252	411	100	16
XN4 40 125/02	40	65	80	140		121	112	190	130	218	252	411	100	17
XN4 40 125/03	40	65	80	140		117	112	190	130	218	252	426	100	18
XN4 40 160/03	40	65	80	160		117	132	210	130	253	292	426	100	20
XN4 40 160/05	40	65	80	160		117	132	210	130	253	292	436	100	24
XN4 40 200/07	40	65	100	180		137	160	230	130	285	340	487	100	26
XN4 40 200/11	40	65	100	180		137	160	230	130	285	340	468	100	29
XN4 40 250/11	40	65	100	225		137	180	265	130	345	405	468	107	41
XN4 40 250/15	40	65	100	225		181	180	265	130	345	405	478	107	55
XN4 40 250/22	40	65	100	225		181	180	265	130	345	405	559	107	56
XN4 50 125/03A	50	65	100	160		117	132	210	130	253	292	446	104	20
XN4 50 125/03	50	65	100	160		117	132	210	130	253	292	446	104	20
XN4 50 125/05	50	65	100	160		117	132	210	130	253	292	456	104	26
XN4 50 160/07	50	65	100	180		137	160	210	130	253	340	487	104	29
XN4 50 160/11	50	65	100	180		137	160	210	130	253	340	468	104	34
XN4 50 200/11	50	65	100	200		137	160	245	130	310	360	468	104	42
XN4 50 200/15	50	65	100	200		181	160	245	130	310	360	478	104	45
XN4 50 250/22A	50	65	100	225		181	180	265	130	345	405	559	107	47
XN4 50 250/22	50	65	100	225		181	180	265	130	345	405	559	107	47
XN4 50 250/30	50	65	100	225		152	180	265	130	345	405	530	107	53
XN4 65 160/05	65	80	100	200		117	160	245	130	310	360	456	130	32
XN4 65 160/07	65	80	100	200		137	160	245	130	310	360	487	130	35
XN4 65 160/11A	65	80	100	200		137	160	245	130	310	360	468	130	38
XN4 65 160/11	65	80	100	200		137	160	245	130	310	360	468	130	39
XN4 65 160/15	65	80	100	200		181	160	245	130	310	360	478	130	42
XN4 65 200/15	65	80	100	225		181	180	245	130	310	405	478	130	50
XN4 65 200/22	65	80	100	225		181	180	245	130	310	405	559	130	55
XN4 65 200/30	65	80	100	225		152	180	245	130	310	405	530	130	55
XN4 65 250/40	65	80	100	250		180	200	265	130	345	450	558	140	64
XN4 65 250/55	65	80	100	250		193	200	265	130	345	450	548	140	78
XN4 80 160/15	80	100	125	225		181	180	265	130	345	405	203	160	49
XN4 80 160/22A	80	100	125	225		181	180	265	130	345	405	584	160	54
XN4 80 160/22	80	100	125	225		181	180	265	130	345	405	584	160	57
XN4 80 200/30	80	100	125	250		152	180	265	130	345	430	555	160	60
XN4 80 200/40	80	100	125	250		180	180	265	130	345	430	583	160	68
XN4 80 250/55	80	100	125	280	259	193	200	303	210	383	480	573	160	83
XN4 80 250/75	80	100	125	280	278	193	200	303	210	383	480	675	160	87
XN4 80 250/92	80	100	125	280	278	194	200	303	210	383	480	629	160	94

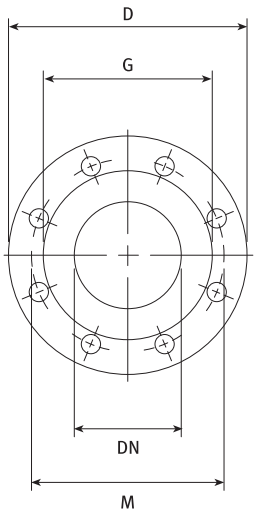
XNS series

XNS with pump support foot motors up to 7.5 kW

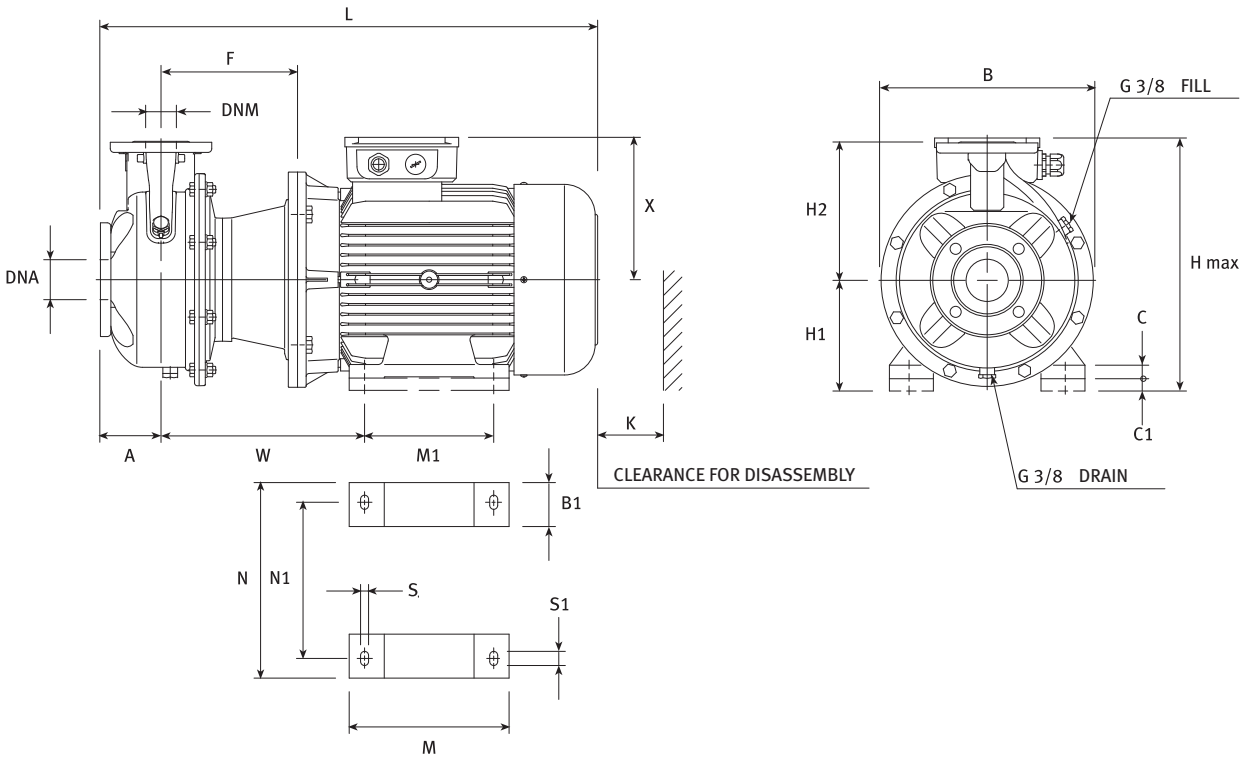




DN	D	M	G	HOLES		MAX.
				Nº	Ø	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20



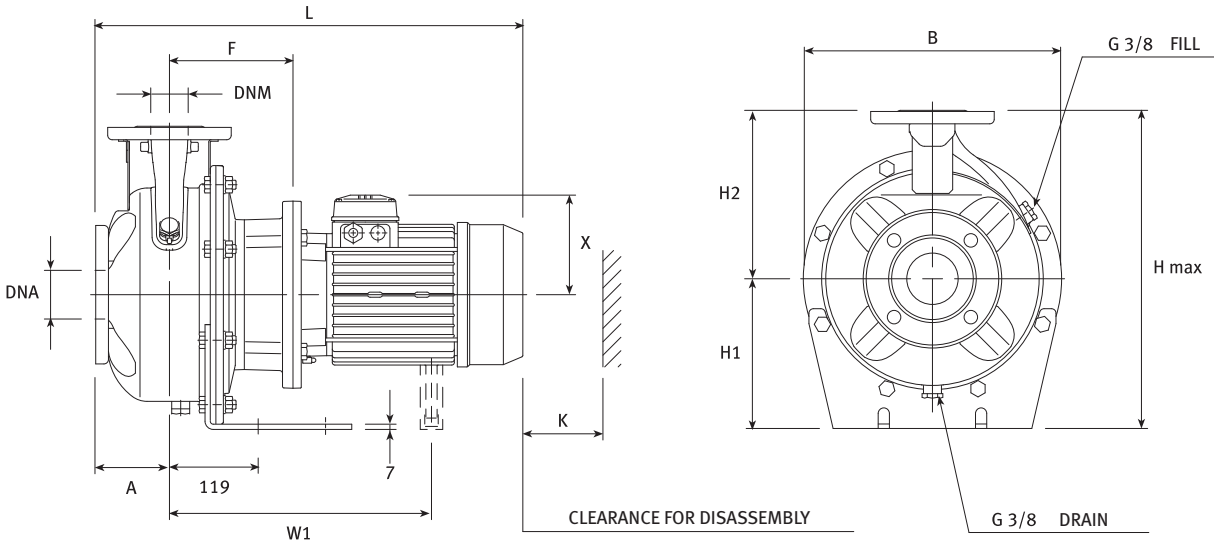
XNS with support under the motor 11 to 37 kW motors

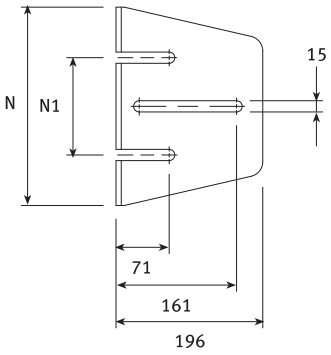


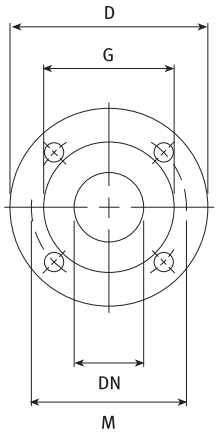
XNS series

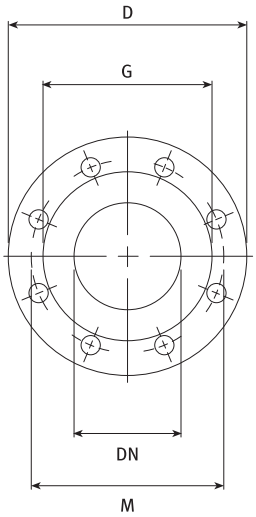
PUMP	DIMENSIONS (mm)																					WEIGHT
	PUMP								SUPPORT										B	H	L	K	
TYPE	DNM	DNA	A	F	H2	W	W1	X	B	C	C1	H1	M	M1	N	N1	N	N1		max			kg
XNS25 125/07	25	50	80	155	140			137				160			190				218	300	485	98	21.1
XNS25 125/11	25	50	80	155	140			137				160			190				218	300	485	98	22.7
XNS25 160/15	25	50	80	155	160			181				160			210				253	320	495	98	22
XNS25 160/22	25	50	80	155	160			181				160			210				253	320	550	98	26
XNS25 200/30	25	50	80	165	180			152				160			230				284	340	571	98	40.3
XNS25 200/40	25	50	80	165	180			180				160			230				284	340	580	98	34.7
XNS25 250/55	25	50	100	192	225		424	193				180			265				345	405	648	98	66.5
XNS25 250/75	25	50	100	192	225		424	193				180			265				345	405	712	98	68
XNS25 250/110	25	50	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	98	115
XNS32 125/07	32	50	80	155	140			137				112			190				218	252	485	98	21.1
XNS32 125/11	32	50	80	155	140			137				112			190				218	252	485	98	22.7
XNS32 160/15	32	50	80	155	160			181				132			210				253	292	495	98	22
XNS32 160/22	32	50	80	155	160			181				132			210				253	292	550	98	26
XNS32 200/30	32	50	80	165	180			152				160			230				284	340	571	98	40.3
XNS32 200/40	32	50	80	165	180			180				160			230				284	340	580	98	34.7
XNS32 250/55	32	50	100	192	225		424	193				180			265				345	405	648	98	66.5
XNS32 250/75	32	50	100	192	225		424	193				180			265				345	405	712	98	68
XNS32 250/110	32	50	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	98	115
XNS40 125/11	40	65	80	155	140			137				112			190				218	252	485	100	23.7
XNS40 125/15	40	65	80	155	140			181				112			190				218	252	495	100	20
XNS40 125/22	40	65	80	155	140			181				112			190				218	252	550	100	25
XNS40 160/30	40	65	80	165	160			152				132			210				253	292	571	100	38.3
XNS40 160/40	40	65	80	165	160			180				132			210				253	292	580	100	31.7
XNS40 200/55	40	65	100	192	180		424	193				160			230				300	340	648	100	52.5
XNS40 200/75	40	65	100	192	180		424	193				160			230				300	340	712	100	57
XNS40 250/110A	40	65	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	107	114
XNS40 250/110	40	65	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	107	114
XNS40 250/150	40	65	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	852	107	133
XNS50 125/22	50	65	100	155	160			181				132			210				253	292	541	104	31.3
XNS50 125/30	50	65	100	165	160			152				132			210				253	292	591	104	33.3
XNS50 125/40	50	65	100	165	160			180				132			210				253	292	600	104	34.17
XNS50 160/55	50	65	100	192	180		424	193				160			210				300	340	648	104	51.5
XNS50 160/75	50	65	100	192	180		424	193				180			210				300	340	712	104	58
XNS50 200/110A	50	65	100	222	200	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	104	111
XNS50 200/110	50	65	100	222	200	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	104	115
XNS50 250/150	50	65	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	852	107	139
XNS50 250/185	50	65	100	222	225	330		230	72	22	20	180	304	254	318	254	14	23	350	424	852	107	134
XNS50 250/220	50	65	100	222	225	330		280	72	22	20	180	304	254	318	254	14	23	350	424	912	107	204
XNS65 160/40	65	80	100	165	200			180				160			245				310	360	600	130	43.7
XNS65 160/55	65	80	100	192	200		424	193				160			245				310	360	648	130	67.5
XNS65 160/75	65	80	100	192	200		424	193				160			245				310	360	712	130	70
XNS65 160/110A	65	80	100	222	200	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	130	99
XNS65 160/110	65	80	100	222	200	330		230	72	22	20	180	260	210	318	254	14	23	350	424	913	130	115
XNS65 200/150	65	80	100	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	852	130	138
XNS65 200/185	65	80	100	222	225	330		230	72	22	20	180	304	254	318	254	14	23	350	424	852	130	140
XNS65 200/220	65	80	100	222	225	330		280	72	22	20	180	304	254	318	254	14	23	350	424	912	130	209
XNS65 250/300	65	80	100	228	250	361		305	60	24		200	345	305	360	318	18	18	400	478	988	140	289
XNS65 250/370	65	80	100	228	250	361		305	60	24		200	345	305	360	318	18	18	400	478	988	140	319
XNS80 160/110	80	100	125	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	938	160	101
XNS80 160/150	80	100	125	222	225	330		230	72	22	20	180	260	210	318	254	14	23	350	424	877	160	143
XNS80 160/185	80	100	125	222	225	330		230	72	22	20	180	304	254	318	254	14	23	350	424	877	160	140
XNS80 200/220	80	100	125	222	250	330		280	72	22	20	180	304	254	318	254	14	23	350	430	937	160	204
XNS80 200/300	80	100	125	228	250	361		305	60	24		200	345	305	360	318	18	18	400	478	1013	160	311
XNS80 200/370	80	100	125	228	250	361		305	60	24		200	345	305	360	318	18	18	400	478	1013	160	314

XNS4 series







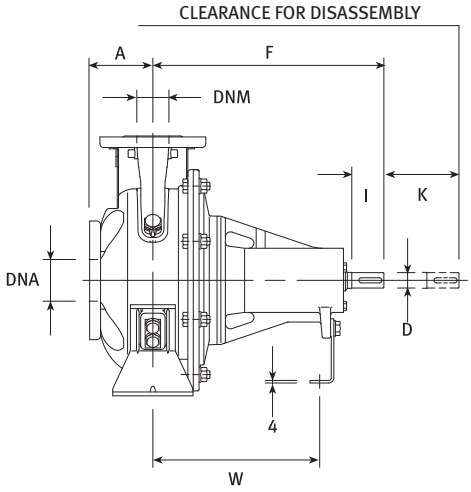


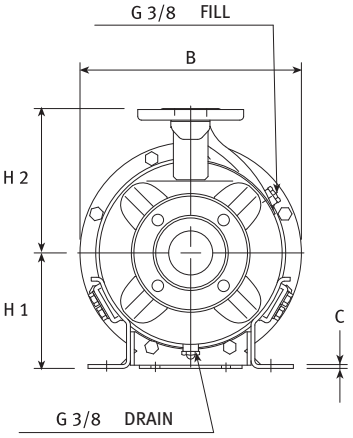
DN	D	M	G	HOLES		MAX.
				N°	Ø	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

XNS4 series

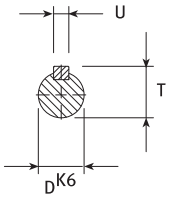
PUMP	DIMENSIONS (mm)														WEIGHT
	PUMP							SUPPORT			B	H	L	K	
TYPE	DNM	DNA	A	F	H2	W1	X	H1	N	N1		max			kg
XNS4 25 250/07	25	50	100	155	225		137	180	265	130	345	405	542	98	41
XNS4 25 250/11	25	50	100	155	225		137	180	265	130	345	405	523	98	43
XNS4 25 250/15	25	50	100	155	225		181	180	265	130	345	405	533	98	44
XNS4 32 250/07	32	50	100	155	225		137	180	265	130	345	405	542	98	41
XNS4 32 250/11	32	50	100	155	225		137	180	265	130	345	405	523	98	43
XNS4 32 250/15	32	50	100	155	225		181	180	265	130	345	405	533	98	44
XNS4 40 200/07	40	65	100	155	180		137	160	230	130	284	340	542	100	30
XNS4 40 200/11	40	65	100	155	180		137	160	230	130	284	340	523	100	31
XNS4 40 250/11	40	65	100	155	225		137	180	265	130	345	405	523	107	45
XNS4 40 250/15	40	65	100	155	225		181	180	265	130	345	405	533	107	58
XNS4 40 250/11	40	65	100	165	225		181	180	265	130	345	405	624	107	59
XNS4 50 160/07	50	65	100	155	180		137	160	210	130	253	340	542	104	29
XNS4 50 160/11	50	65	100	155	180		137	160	210	130	253	340	523	104	30
XNS4 50 200/11	50	65	100	155	200		137	160	245	130	310	360	523	104	43
XNS4 50 200/15	50	65	100	155	200		181	160	245	130	310	360	533	104	46
XNS4 50 250/22A	50	65	100	165	225		181	180	265	130	345	405	624	107	49
XNS4 50 250/22	50	65	100	165	225		181	180	265	130	345	405	624	107	50
XNS4 50 250/30	50	65	100	165	225		152	180	265	130	345	405	595	107	56
XNS4 65 160/05	65	80	100	155	200		117	160	245	130	310	360	511	130	34
XNS4 65 160/07	65	80	100	155	200		137	160	245	130	310	360	542	130	37
XNS4 65 160/11A	65	80	100	155	200		137	160	245	130	310	360	523	130	40
XNS4 65 160/11	65	80	100	155	200		137	160	245	130	310	360	523	130	42
XNS4 65 160/15	65	80	100	155	200		230	160	245	130	310	360	533	130	45
XNS4 65 200/15	65	80	100	155	225		230	180	245	130	310	405	533	130	48
XNS4 65 200/22	65	80	100	165	225		280	180	245	130	310	405	624	130	62
XNS4 65 200/30	65	80	100	165	225		152	180	245	130	310	405	595	130	63
XNS4 65 250/40	65	80	100	165	250		180	200	265	130	345	450	623	140	77
XNS4 65 250/55	65	80	100	192	250	351	193	200	265	130	345	450	640	140	85
XNS4 80 160/15	80	100	125	155	225		181	180	265	130	345	405	558	160	53
XNS4 80 160/22A	80	100	125	165	225		181	180	265	130	345	405	649	160	58
XNS4 80 160/22	80	100	125	165	225		181	180	265	130	345	405	649	160	58
XNS4 80 200/30	80	100	125	165	250		152	180	265	130	345	430	620	160	63
XNS4 80 200/40	80	100	125	165	250		180	180	265	130	345	430	648	160	68
XNS4 80 250/55	80	100	125	192	280	351	193	200	303	210	383	480	665	160	98
XNS4 80 250/75	80	100	125	192	280	370	193	200	303	210	383	480	767	160	100
XNS4 80 250/92	80	100	125	192	280	370	194	200	303	210	383	480	721	160	102

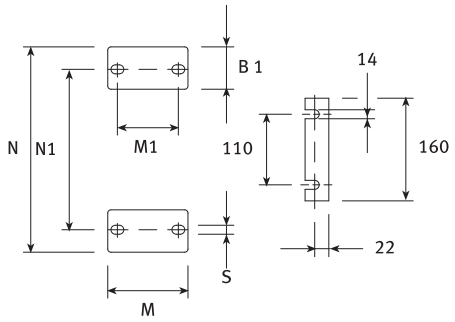
XNF bare shaft series

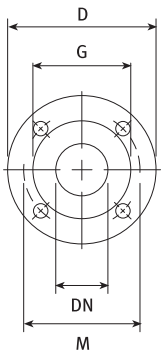


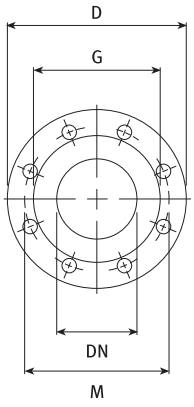


Shaft end according to UNI 6397
Tolerance k6 for diameter D key according to UNI 6604







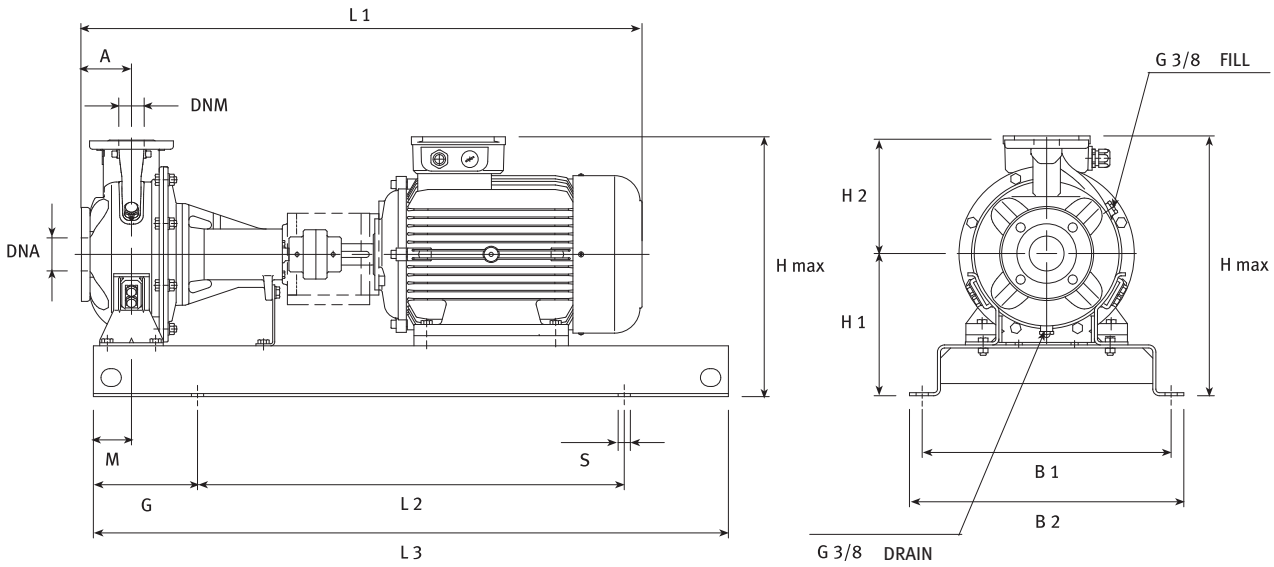


DN	D	M	G	HOLES		MAX.
				N°	Ø	THICKNESS
25	115	85	56	4	18	16
32	140	100	64	4	18	16
40	150	110	68	4	18	16
50	165	125	83	4	18	18
65	185	145	104	4	18	18
80	200	160	116	8	18	20
100	225	180	142	8	18	20

XNF bare shaft series

PUMP	DIMENSIONS (mm)																				WEIGHT
	PUMP						SUPPORT								SHAFT				B	K	
TYPE	DNM	DNA	A	F	H1	H2	B1	C	M	M1	N	N1	S	W	D	I	T	U			kg
XNF25 125	25	50	80	360	112	140	47	3	100	70	190	130	130	260	24	50	27	8	218	98	14
XNF25 160	25	50	80	360	132	160	48	3	100	70	240	130	130	260	24	50	27	8	253	98	17
XNF25 200	25	50	80	360	160	180	47	3	100	70	240	130	130	260	24	50	27	8	284	98	20
XNF25 250	25	50	100	360	180	225	54	6	125	95	320	130	130	260	24	50	27	8	345	98	84
XNF32 125	32	50	80	360	112	140	47	3	100	70	190	130	130	260	24	50	27	8	218	98	14
XNF32 160	32	50	80	360	132	160	48	3	100	70	240	130	130	260	24	50	27	8	253	98	17
XNF32 200	32	50	80	360	160	180	47	3	100	70	240	130	130	260	24	50	27	8	284	98	20
XNF32 250	32	50	100	360	180	225	54	6	125	95	320	130	130	260	24	50	27	8	345	98	84
XNF40 125	40	65	80	360	112	140	47	3	100	70	210	130	130	260	24	50	27	8	218	100	16
XNF40 160	40	65	80	360	132	160	48	3	100	70	240	130	130	260	24	50	27	8	253	100	18
XNF40 200	40	65	100	360	160	180	50	3	100	70	265	130	130	260	24	50	27	8	284	100	20
XNF40 250	40	65	100	360	180	225	54	6	125	95	320	130	130	260	24	50	27	8	345	107	33
XNF50 125	50	65	100	360	132	160	48	3	100	70	240	130	130	260	24	50	27	8	253	104	17
XNF50 160	50	65	100	360	160	180	48	3	100	70	265	130	130	260	24	50	27	8	253	104	24
XNF50 200	50	65	100	360	160	200	40	6	100	70	265	130	130	260	24	50	27	8	310	104	30
XNF50 250	50	65	100	360	180	225	54	6	125	95	320	130	130	260	24	50	27	8	345	107	37
XNF65 160	65	80	100	360	160	200	48	6	125	95	280	130	130	260	24	50	27	8	310	130	31
XNF65 200	65	80	100	360	180	225	65	15	125	95	320	130	130	260	24	50	27	8	310	130	42
XNF65 250	65	80	100	470	200	250	80	18	160	120	360	130	130	340	32	80	35	10	345	140	55
XNF80 160	80	100	125	360	180	225	54	6	125	95	320	130	130	260	24	50	27	8	345	160	37
XNF80 200	80	100	125	470	180	250	65	15	125	95	345	130	130	340	32	80	35	10	345	160	55
XNF80 250	80	100	125	470	200	280	80	18	160	120	400	130	130	340	32	80	35	10	383	160	67

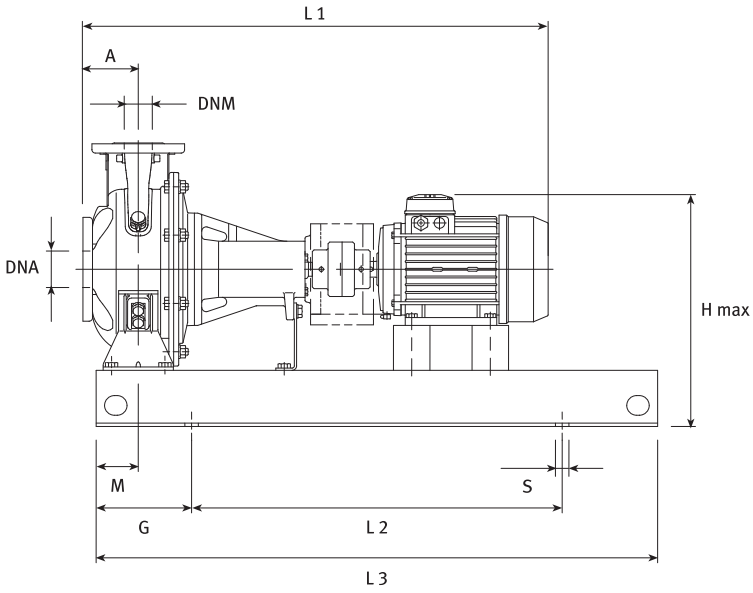
XNF base-mounted series

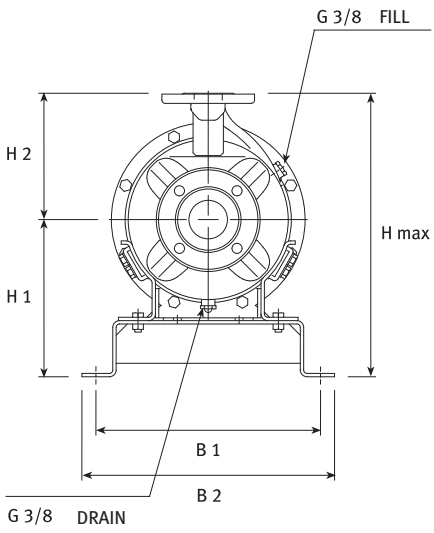


XNF base-mounted series

PUMP	DIMENSIONS (mm)														WEIGHT	COUPLING
TYPE	DNM	DNA	A	B1	B2	L1	L2	L3	G	M	H1	H2	H max	S	kg	TYPE
XNF 32 125/07	32	50	80	400	450	744	565	805	120	60	202	140	342	M10	65	A2
XNF 32 125/11	32	50	80	400	450	744	565	805	120	60	202	140	342	M10	67	A2
XNF 32 160/15	32	50	80	400	450	773	565	805	120	60	222	160	382	M10	69	A3
XNF 32 160/22	32	50	80	400	450	773	565	805	120	60	222	160	382	M10	71	A3
XNF 32 200/30	32	50	80	400	450	809	565	805	120	60	250	180	430	M10	90	B1
XNF 32 200/40	32	50	80	400	450	832	565	805	120	60	250	180	430	M10	94	B1
XNF 32 250/55	32	50	100	400	450	909	565	805	120	75	270	225	495	M10	119	C1
XNF 32 250/75	32	50	100	400	450	909	565	805	120	75	270	225	495	M10	122	C1
XNF 32 250/110	32	50	100	500	550	1061	850	1090	120	75	270	225	514	M14	176	C2
XNF 40 125/11	40	65	80	400	450	744	565	805	120	60	202	140	342	M10	68	A2
XNF 40 125/15	40	65	80	400	450	443	565	805	120	60	202	140	342	M10	70	A3
XNF 40 125/22	40	65	80	400	450	443	565	805	120	60	202	140	342	M10	73	A3
XNF 40 160/30	40	65	80	400	450	809	565	805	120	60	222	160	382	M10	87	B1
XNF 40 160/40	40	65	80	400	450	832	565	805	120	60	222	160	382	M10	93	B1
XNF 40 200/55	40	65	100	400	450	909	565	805	120	60	250	180	444	M10	108	C1
XNF 40 200/75	40	65	100	400	450	909	565	805	120	60	250	180	444	M10	116	C1
XNF 40 250/110A	40	65	100	500	550	1061	850	1090	120	75	270	225	514	M14	162	C2
XNF 40 250/110	40	65	100	500	550	1061	850	1090	120	75	270	225	514	M14	165	C2
XNF 40 250/150	40	65	100	500	550	1061	850	1090	120	75	270	225	514	M14	170	C2
XNF 50 125/22	50	65	100	400	450	793	565	805	120	60	222	160	382	M10	80	A3
XNF 50 125/30	50	65	100	400	450	829	565	805	120	60	222	160	382	M10	87	B1
XNF 50 125/40	50	65	100	400	450	852	565	805	120	60	222	160	382	M10	92	B1
XNF 50 160/55	50	65	100	400	450	909	565	805	120	60	250	180	444	M10	106	C1
XNF 50 160/75	50	65	100	400	450	909	565	805	120	60	250	180	444	M10	110	C1
XNF 50 200/110A	50	65	100	500	550	1061	850	1090	120	60	250	200	494	M14	140	C2
XNF 50 200/110	50	65	100	500	550	1061	850	1090	120	60	250	200	494	M14	145	C2
XNF 50 250/150	50	65	100	500	550	1061	850	1090	120	75	270	225	514	M14	160	C2
XNF 50 250/185	50	65	100	500	550	1105	850	1090	120	75	270	225	514	M14	165	C2
XNF 50 250/220	50	65	100	500	550	1111	850	1090	120	75	270	225	528	M14	180	D1
XNF 65 160/40	65	80	100	400	450	852	565	805	120	75	250	200	450	M10	130	B1
XNF 65 160/55	65	80	100	400	450	909	565	805	120	75	250	200	450	M10	136	C1
XNF 65 160/75	65	80	100	400	450	909	565	805	120	75	250	200	450	M10	142	C1
XNF 65 160/110A	65	80	100	500	550	1061	850	1090	120	75	250	200	494	M14	157	C2
XNF 65 160/110	65	80	100	500	550	1061	850	1090	120	75	250	200	494	M14	157	C2
XNF 65 200/150	65	80	100	500	550	1061	850	1090	120	75	270	225	514	M14	180	C2
XNF 65 200/185	65	80	100	500	550	1105	850	1090	120	75	270	225	514	M14	192	C2
XNF 65 200/220	65	80	100	500	550	1111	850	1090	120	75	270	225	528	M14	208	D1
XNF 65 250/300	65	80	100	650	700	1296	1110	1350	120	90	300	250	578	M18	271	E1
XNF 65 250/370	65	80	100	650	700	1296	1110	1350	120	90	300	250	578	M18	296	E1
XNF 80 160/110	80	100	125	500	550	1086	850	1090	120	75	270	225	514	M14	193	C2
XNF 80 160/150	80	100	125	500	550	1086	850	1090	120	75	270	225	514	M14	204	C2
XNF 80 160/185	80	100	125	500	550	1130	850	1090	120	75	270	225	514	M14	225	C2
XNF 80 200/220	80	100	125	500	550	1246	850	1090	120	75	270	250	528	M14	236	D2
XNF 80 200/300	80	100	125	650	700	1321	1110	1350	120	75	300	250	578	M18	277	E1
XNF 80 200/370	80	100	125	650	700	1321	1110	1350	120	75	300	250	578	M18	295	E1
XNF 80 250/450	80	100	125	650	700	1398	1110	1350	120	90	355	280	653	M18	355	E1
XNF 80 250/550	80	100	125	710	765	1428	1290	1550	130	90	380	280	678	M24	394	F1
XNF 80 250/750	80	100	125	670	730	1558	1200	1800	300	90	420	280	780	M24	405	G1

XNF4 base-mounted series



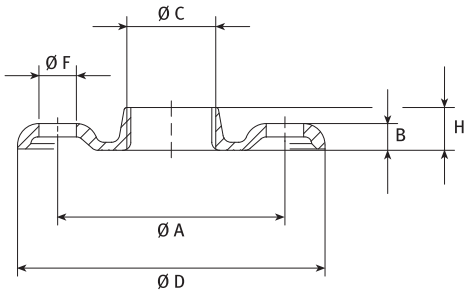


XNF4 base-mounted series

PUMP	DIMENSIONS (mm)														WEIGHT	COUPLING
TYPE	DNM	DNA	A	B1	B2	L1	L2	L3	G	M	H1	H2	H max	S	kg	TYPE
XNF4 32 125/02A	32	50	80	400	450	702	565	805	120	60	202	140	342	M10	72	A1
XNF4 32 125/02	32	50	80	400	450	702	565	805	120	60	202	140	342	M10	72	A1
XNF4 32 160/02	32	50	80	400	450	702	565	805	120	60	222	160	382	M10	74	A1
XNF4 32 160/03	32	50	80	400	450	702	565	805	120	60	222	160	382	M10	74	A1
XNF4 32 200/03	32	50	80	400	450	702	565	805	120	60	250	180	430	M10	78	A1
XNF4 32 200/05	32	50	80	400	450	744	565	805	120	60	250	180	430	M10	80	A2
XNF4 32 250/07	32	50	100	400	450	764	565	805	120	75	270	225	495	M10	97	A2
XNF4 32 250/11	32	50	100	400	450	793	565	805	120	75	270	225	495	M10	100	A3
XNF4 32 250/15	32	50	100	400	450	793	565	805	120	75	270	225	495	M10	102	A3
XNF4 40 125/02A	40	65	80	400	450	702	565	805	120	60	202	140	342	M10	57	A1
XNF4 40 125/02	40	65	80	400	450	702	565	805	120	60	202	140	342	M10	57	A1
XNF4 40 125/03	40	65	80	400	450	702	565	805	120	60	202	140	342	M10	58	A1
XNF4 40 160/03	40	65	80	400	450	702	565	805	120	60	222	160	382	M10	60	A1
XNF4 40 160/05	40	65	80	400	450	744	565	805	120	60	222	160	382	M10	62	A2
XNF4 40 200/07	40	65	100	400	450	764	565	805	120	60	250	180	430	M10	69	A2
XNF4 40 200/11	40	65	100	400	450	793	565	805	120	60	250	180	430	M10	72	A3
XNF4 40 250/11	40	65	100	400	450	793	565	805	120	75	270	225	495	M10	99	A3
XNF4 40 250/15	40	65	100	400	450	793	565	805	120	75	270	225	495	M10	102	A3
XNF4 40 250/22	40	65	100	400	450	829	565	805	120	75	270	225	495	M10	115	B1
XNF4 50 125/03A	50	65	100	400	450	722	565	805	120	60	222	160	382	M10	59	A1
XNF4 50 125/03	50	65	100	400	450	722	565	805	120	60	222	160	382	M10	59	A1
XNF4 50 125/05	50	65	100	400	450	764	565	805	120	60	222	160	382	M10	61	A2
XNF4 50 160/07	50	65	100	400	450	764	565	805	120	60	250	180	430	M10	68	A2
XNF4 50 160/11	50	65	100	400	450	793	565	805	120	60	250	180	430	M10	71	A3
XNF4 50 200/11	50	65	100	400	450	793	565	805	120	60	250	200	450	M10	82	A3
XNF4 50 200/15	50	65	100	400	450	793	565	805	120	60	250	200	450	M10	85	A3
XNF4 50 250/22A	50	65	100	400	450	829	565	805	120	75	270	225	495	M10	116	B1
XNF4 50 250/22	50	65	100	400	450	829	565	805	120	75	270	225	495	M10	116	B1
XNF4 50 250/30	50	65	100	400	450	829	565	805	120	75	270	225	495	M10	120	B1
XNF4 65 160/05	65	80	100	400	450	764	565	805	120	75	250	200	450	M10	84	A2
XNF4 65 160/07	65	80	100	400	450	764	565	805	120	75	250	200	450	M10	85	A2
XNF4 65 160/11A	65	80	100	400	450	793	565	805	120	75	250	200	450	M10	88	A3
XNF4 65 160/11	65	80	100	400	450	793	565	805	120	75	250	200	450	M10	88	A3
XNF4 65 160/15	65	80	100	400	450	793	565	805	120	75	250	200	450	M10	91	A3
XNF4 65 200/15	65	80	100	400	450	793	565	805	120	75	270	225	495	M10	103	A3
XNF4 65 200/22	65	80	100	400	450	829	565	805	120	75	270	225	495	M10	117	B1
XNF4 65 200/30	65	80	100	400	450	829	565	805	120	75	270	225	495	M10	121	B1
XNF4 65 250/40	65	80	100	500	550	962	970	1090	120	90	300	250	540	M14	158	C3
XNF4 65 250/55	65	80	100	500	550	1019	970	1090	120	90	300	250	540	M14	174	C4
XNF4 80 160/15	80	100	125	400	450	818	565	805	120	75	270	225	495	M10	121	A3
XNF4 80 160/22A	80	100	125	400	450	854	565	805	120	75	270	225	495	M10	127	B1
XNF4 80 160/22	80	100	125	400	450	854	565	805	120	75	270	225	495	M10	127	B1
XNF4 80 200/30	80	100	125	500	550	964	970	1090	120	75	270	250	520	M14	146	C3
XNF4 80 200/40	80	100	125	500	550	987	970	1090	120	75	270	250	520	M14	151	C3
XNF4 80 250/55	80	100	125	500	550	1044	970	1090	120	90	300	280	570	M14	175	C4
XNF4 80 250/75	80	100	125	500	550	1082	970	1090	120	90	300	280	570	M14	185	C4

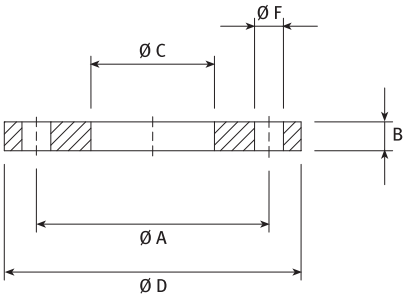
Dimensions of round threaded counterflanges according to EN 1092-1

		DIMENSIONS (mm)				HOLES		
DN	Ø C	Ø A	B	Ø D	H	Ø F	Nº	PN
25	Rp 1	85	10	115	16	14	4	16
32	Rp $1^{1/4}$	100	13	140	16	18	4	16
40	Rp $1^{1/2}$	110	14	150	19	18	4	16
50	Rp 2	125	16	165	24	18	4	16
65	Rp $2^{1/2}$	145	16	185	23	18	4	16
80	Rp 3	160	17	200	27	18	8	16
100	Rp 4	180	18	220	31	18	8	16



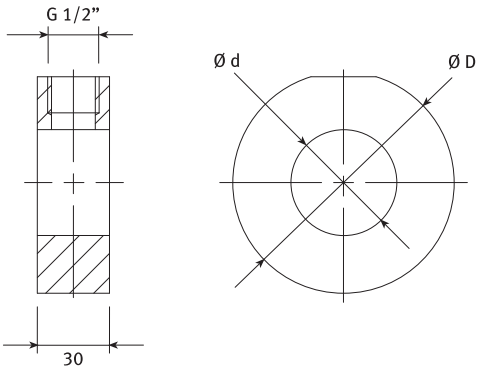
Dimensions of round weld-on counterflanges according to EN 1092-1

		DIMENSIONS (mm)				HOLES		
DN	Ø C	Ø A	B	Ø D	H	Ø F	Nº	PN
65	77	145	18	185	16	18	4	16
80	90	160	20	200	16	18	8	16
100	115.5	180	22	220	19	18	8	16



AISI 304 flange with pressure gauge connector

DESIGNATION	DIMENSIONS (mm)	
	d	D
25	29	70
32	36	82
40	44	92
50	54	107
65	69	127
80	85	142
100	105	162



COLLECTING
MAKING POTABLE
PRESSURISING
RECIRCULATING
REUSING
EVACUATING
CLEANING

ESPA GROUP supporting you
with all the technology,
products and service you need.

www.espa.com

ESPA
Innovative Solutions

Flet 4002EN 09/08