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SAER®
ELETTROPOMPE

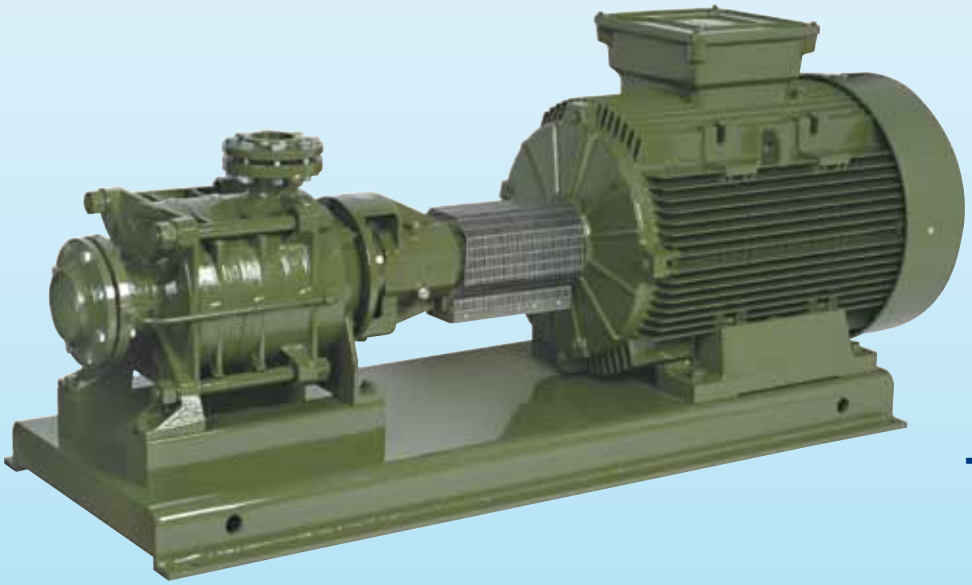
POMPE CENTRIFUGHE MULTISTADIO

MULTISTAGE CENTRIFUGAL PUMPS

TM - TMB - TMV

TMVXZ

TMBXZ



TMZ

I

IMPIEGHI
Le pompe centrifughe multistadio ad asse orizzontale della serie TM trovano impiego in impianti di alimentazione idrica, di sollevamento ad alta pressione, di refrigerazione, di riscaldamento, di irrigazione, di innevamento, di lavaggio, in impianti per alimentazione caldaie, per estrazione condensato.

CARATTERISTICHE COSTRUTTIVE
Pompe centrifughe multistadio ad asse orizzontale [TM,TMB] o verticale [TMV], azionate tramite giunto elastico idrodinamico, rotazione oraria vista lato comando.
Sistema multiplo di equilibratura delle spinte assiali: giranti con fori di equilibrio, tubo di ricircolo e tamburo di equilibrio sull'albero.

COMPONENTI
Corpo di aspirazione con bocca assiale [TM] o radiale [TMV,TMB]; stadio intermedio costituito da corpo di stadio e relativo diffusore dotati di anelli di usura. Sedi giranti sostituibili.
Corpo di mandata con bocca premente orientata verso l'alto, con possibilità di ruotarla di 90° in entrambi i versi.
Supporto cuscinetti lato comando ad elevata rigidità.
TM,TMV: supporto lato aspirazione del tipo a strisciamento lubrificato dal liquido pompato.
TMB: doppio supporto.
Albero in acciaio inox completamente protetto.
Tenuta sull'albero a baderna registrabile, in alternativa tenuta meccanica non bilanciata o bilanciata secondo la pressione di utilizzo.

DATI CARATTERISTICI
Pressione massima di esercizio: versioni 40 bar e 63 bar.
Temperatura liquido pompato: min: -15°C max: 120°C.
Temperatura ambiente [gruppo elettropompa]: max 40°C (oltre chiedere verifica).
Il liquido pompato deve essere chimicamente e meccanicamente idoneo per i materiali utilizzati.

MATERIALI
Giranti e diffusori: ghisa EN-GJL-250 o acciaio al carbonio.
Corpo di aspirazione, corpo di mandata e corpi di stadio: ghisa EN-GJL-250, ghisa EN-GJS-500, acciaio al carbonio.
Albero e bussole di protezione: acciaio inossidabile AISI 431.
Tiranti: acciaio al carbonio.
A richiesta versioni in acciaio inossidabile AISI 316 microfuso.

PRESTAZIONI
Prestazioni garantite con tolleranze conformi a UNI EN ISO 9906 Appendice A, a richiesta livello 1.

GB

APPLICATIONS
The centrifugal multistage horizontal electric pumps of series TM are used in irrigation systems, systems of high pressure lifting, refrigeration, heating, snowing, cleaning, in boiler systems, in condensed extraction.

CONSTRUCTIONAL FEATURES
Centrifugal multistage horizontal [TM, TMB] or vertical [TMV] pumps driven by elastic hydro-dynamic coupling, clock wise rotation looked from drive side.
Combined axial thrust balancing system: impeller with holes, recirculation pipe and balance drum on the shaft.

COMPONENTS
Suction body with axial [TM] or radial [TMB, TMV] inlet; intermediate stage composed of stage body and corresponding diffuser with wearing rings.
Replaceable impeller seats.
Delivery body with upward outlet, with the possibility of turning in at 90°C, both directions.
Drive side bearing support with high rigidity.
TM, TMV: suction side support of sliding type, lubrificated by the pumped liquid.
TMB: double support.
Shaft in stainless steel completely protected.
Adjustable packing seal on the shaft, in alternative not balanced or balanced mechanical seal, according to the working pressure.
External tie rods for tightening of the intermediate stages.

OPERATING DATA
Maximum working pressure: 40 bar or 63 bar.
Temperature of pumped liquid: min: -15°C max: 120°C.
Ambient temperature [group electric pump]: max 40°C. (please, request verification for higher temperatures).
The pumped liquid has to be chemically and mechanically suitable for the utilized materials.

MATERIALS
Impellers and diffusers: cast iron EN-GJL-250 or carbon steel.
Suction body, delivery body and stage casing: cast iron EN-GJL-250, cast iron EN-GJS-500 or carbon steel.
Shaft and protection bushes: stainless steel AISI 431.
Tie rods: carbon steel.
On request, stainless steel AISI 316 versions.

PERFORMANCES
Guaranteed performances with tolerances admitted by Standards UNI EN ISO 9906 Appendix A, level 1 on request.


TM


TMB


TMV

TM-TMB-TMV

LIMITI DI FUNZIONAMENTO - VERSIONI STANDARD
OPERATION LIMITS - STANDARD VERSIONS

			SERIE 40 – SERIES 40											
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min			50 Hz ▶ 2950 1/min			60 Hz ▶ 3550 1/min		
			TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	15÷35			18÷42			30÷70			35÷84		
2	H (Q=0)	m	108	150	108	108	155	108	300	602	300	310	619	310
3	PN	bar	40÷63											
4	P_2max	kW	15	18,5	15	15	22	15	75	160	75	90	160	90
5	T	°C	90 (120)											
6		g/m^3	65											
7		min	2											

			SERIE 50 – SERIES 50											
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min			50 Hz ▶ 2950 1/min			60 Hz ▶ 3550 1/min		
			TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	20÷50			24÷60			40÷100			47÷120		
2	H (Q=0)	m	125	163	113	126	162	126	300	640	300	288	640	288
3	PN	bar	40÷63											
4	P_2max	kW	18,5	30	18,5	22	30	22	90	200	90	110	250	110
5	T	°C	90 (120)											
6		g/m^3	65											
7		min	2											

			SERIE 65 – SERIES 65											
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min			50 Hz ▶ 2950 1/min			60 Hz ▶ 3550 1/min		
			TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	30÷110			30÷130			60÷160			70÷170		
2	H (Q=0)	m	83	198	165	123	245	147	340	544	340	392	588	392
3	PN	bar	40÷63											
4	P_2max	kW	22	55	45	37	75	45	160	250	160	200	280	200
5	T	°C	90 (120)											
6		g/m^3	65											
7		min	2											

			SERIE 80 – SERIES 80											
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min			50 Hz ▶ 2950 1/min			60 Hz ▶ 3550 1/min		
			TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	40÷145			50÷175			100÷230			122÷282		
2	H (Q=0)	m	210	210	210	202	202	202	403	564	403	349	581	349
3	PN	bar	40÷63											
4	P_2max	kW	75	75	75	75	75	75	250	400	250	280	450	280
5	T	°C	90 (120)											
6		g/m^3	65											
7		min	2											

			SERIE 100 – SERIES 100											
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min			50 Hz ▶ 2950 1/min			60 Hz ▶ 3550 1/min		
			TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	60÷210			100÷220			160÷310			160÷300		
2	H (Q=0)	m	140	280	196	200	400	280	428	642	321	304	608	
3	PN	bar	40÷63											
4	P_2max	kW	75	132	110	110	250	160	400	560	200	315	630	
5	T	°C	90 (120)											
6		g/m^3	65											
7		min	2											

			SERIE 125 – SERIES 125					
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min		
			TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	120÷300			130÷330		
2	H (Q=0)	m	205	327	205	236	354	236
3	PN	bar	40÷63					
4	P_2max	kW	160	250	160	200	280	200
5	T	°C	90 (120)					
6		g/m^3	65					
7		min	2					

			SERIE 150 – SERIES 150					
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min		
			TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	150÷450			180÷540		
2	H (Q=0)	m	216	324		233	311	
3	PN	bar	40÷63					
4	P_2max	kW	250	355		280	400	
5	T	°C	90 (120)					
6		g/m^3	65					
7		min	2					

			SERIE 200 – SERIES 200					
			50 Hz ▶ 1450 1/min			60 Hz ▶ 1750 1/min		
			TM	TMB	TMV	TM	TMB	TMV
1	Q min – Qmax	m^3/h	300÷900			360÷1080		
2	H (Q=0)	m		320			345	
3	PN	bar	40÷63					
4	P_2max	kW		710			900	
5	T	°C	90 (120)					
6		g/m^3	65					
7		min	2					

1. Campo di portata
Field of capacity

2. Prevalenza massima (Q=0)
Max. head (Q=0)

3. Pressione massima d'esercizio (massima pressione ammissibile considerando la somma della pressione massima in aspirazione e della prevalenza a portata nulla)
Max operation pressure (max allowed pressure in consideration of the sum of max. suction pressure and of the head with null flow rate)

4. Potenza max
Max. power

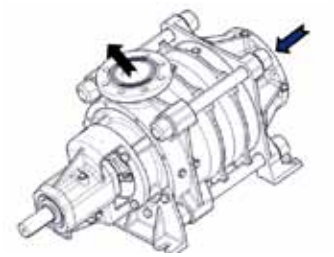
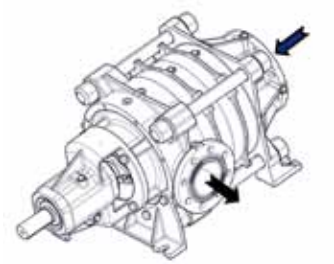
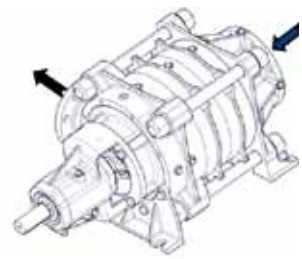
5. Temperatura del liquido pompato
Temperature of the pumped liquid

6. Contenuto massimo di corpi solidi
Max solids content

7. Tempo massimo di funzionamento a bocca chiusa
Max working time with closed delivery

ORIENTAMENTO BOCCHE:POSSIBILI CONFIGURAZIONI
NOZZLE ORIENTATION: POSSIBLE CONFIGURATIONS

TM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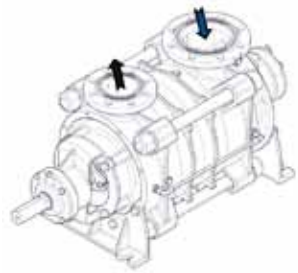
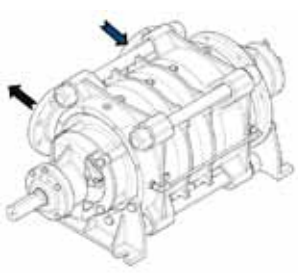
ORIENTAMENTO BOCCHE:POSSIBILI CONFIGURAZIONI
NOZZLE ORIENTATION: POSSIBLE CONFIGURATIONS

TMB

		
1	2	3
		
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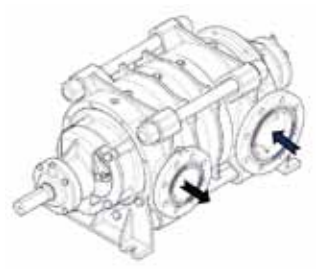	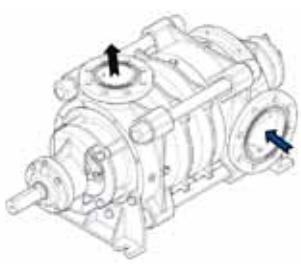	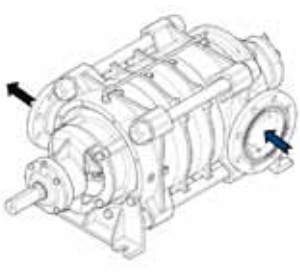
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	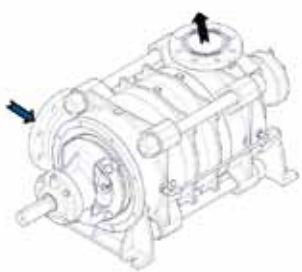	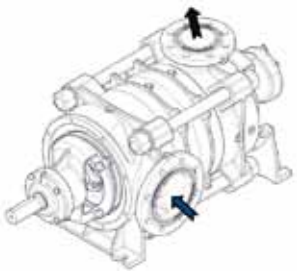
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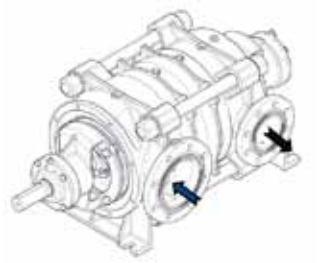	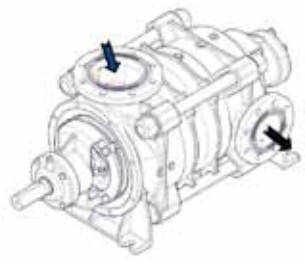	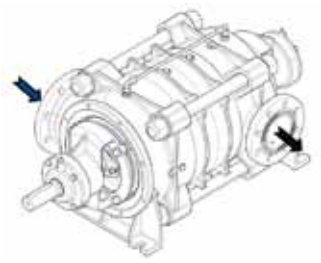
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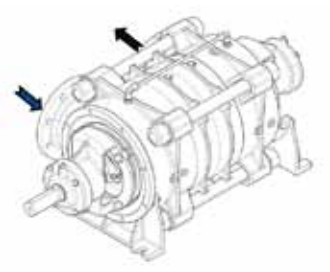
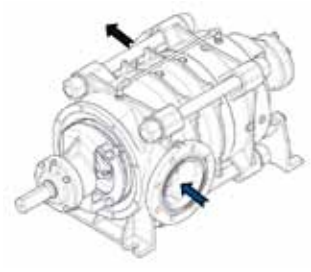
		
16*	17*	18*

(*) A richiesta – On request

ORIENTAMENTO BOCCHE:POSSIBILI CONFIGURAZIONI
NOZZLE ORIENTATION: POSSIBLE CONFIGURATIONS

TMV

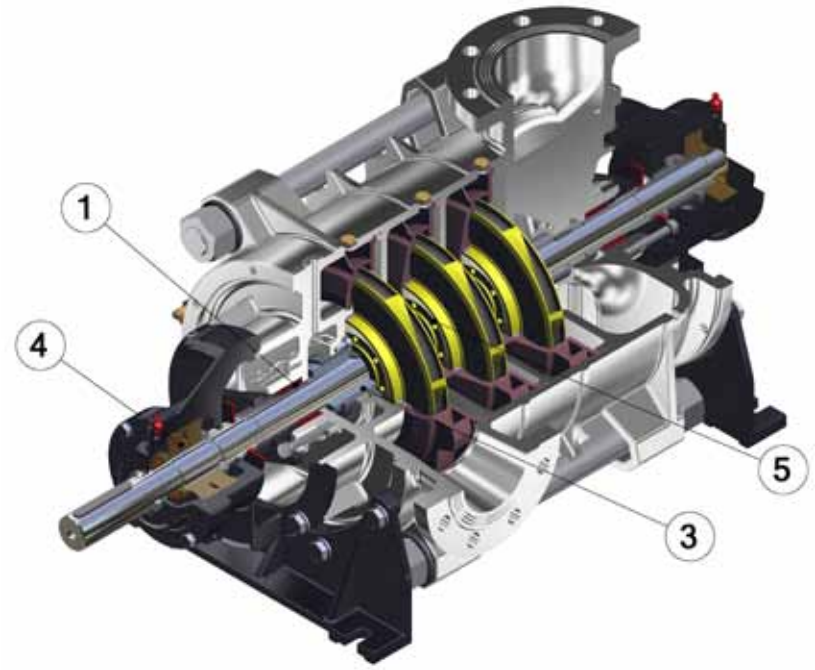
	
1	2
	
3	4

TM-TMB-TMV: versione standard in configurazione 1

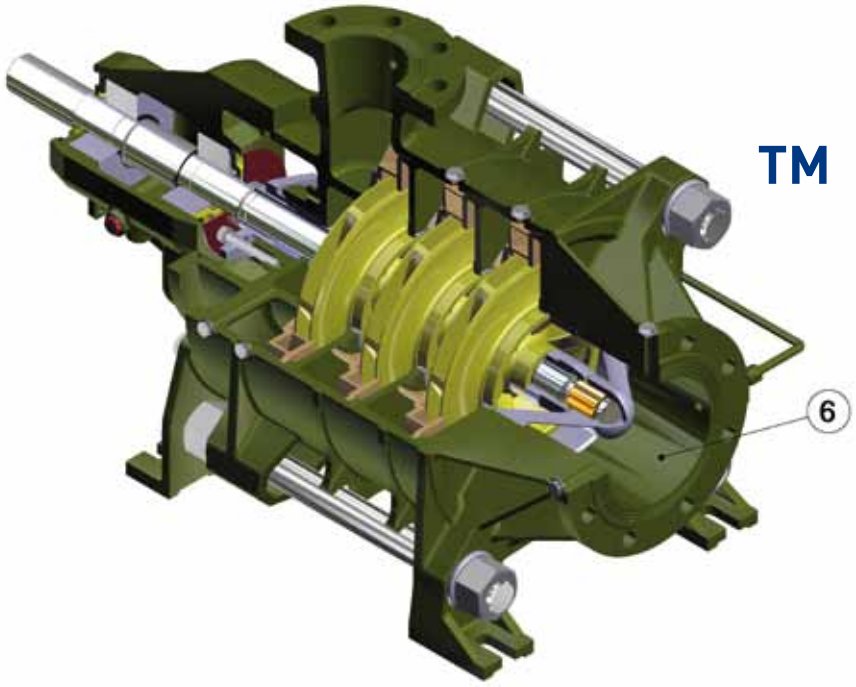
TM-TMB-TMV: standard version configuration 1

Serie TM-TMB-TMV: vantaggi

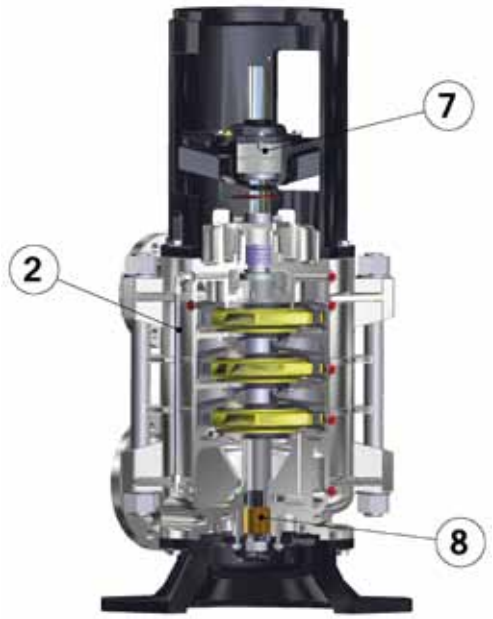
TM-TMB-TMV series: advantages



TMB



TM



TMV

I

- Componenti progettati con spessori idonei per garantire la maggiore resistenza e durata alle pressioni d'esercizio.
- Ampia scelta di materiali (Ghisa grigia EN-GJL-250, Ghisa sferoidale EN-GJS-500, Acciaio inossidabile AISI 316).
- Flangiatura in PN 16 in aspirazione, PN 40 (PN 63 a richiesta) in mandata. Pressione massima di funzionamento: PN40 o PN63 a seconda delle versioni.
- Tre configurazioni possibili: TM (aspirazione assiale), TMB (doppio supporto e aspirazione laterale), TMV (verticale), tutte con possibilità di orientare le bocche.
- Disegno idraulico progettato con sistemi CFD e ottimizzato per ottenere i migliori livelli di efficienza idraulica abbinati ad una vasta gamma di curve Portata-Prevalenza.
- Di serie, Albero in acciaio inossidabile AISI 431 progettato per resistere ai carichi flesso-torsionali generati e protetto da sistemi antiusura (imbussolamento in acciaio inossidabile). A richiesta, alberi in materiali diversi (Duplex, AISI 630).

1) Sistema di riduzione dei carichi assiali su tutte le versioni: tamburo di bilanciamento, giranti forate e tubo esterno di equilibrio
(2) Diffusore di ultimo stadio per l'eliminazione dei carichi radiali.
3) Differenti configurazioni di tenuta meccanica o a baderna a seconda delle esigenze dell'utilizzatore, in funzione delle caratteristiche del fluido e delle condizioni di impiego.
4) Cuscinetti a sfere sovradimensionati e preservati dagli agenti esterni per offrire una rumorosità di funzionamento ridotta e una vita utile elevata. Su richiesta versioni disponibili con cuscinetti in bagno d'olio e con oliatore a livello costante.
5) Anello di usura anteriore e posteriore, semplici da sostituire, per salvaguardare i diffusori, corpi e giranti.
6) Serie TM: Profilo dell'aspirazione studiato per aumentare la capacità di aspirazione, ridurre l' NPSH e la possibilità di cavitazione.
7) Cuscinetti reggispinta preposti alla sopportazione dei carichi assiale residui.
8) Serie TM e TMV: Bronzine in materiale antifrizione.

Le pompe serie TM-TMB-TMV sono interamente realizzate negli stabilimenti SAER in Italia.

GB

- Components designed with suitable thickness to guarantee greater resistance and life to the exercise pressures.
- A wide range of materials (cast iron EN-GJL-250, spheroidal cast iron EN-GJS-500, stainless steel AISI 316).
- Suction flanges in PN 16, delivery flanges in PN 40 (PN 63 on request). Maximum working pressure: PN40 o PN63 depending from versions.
- Three possible configurations: TM (axial suction), TMB (double support and lateral suction), TMV (vertical), all with the possibilità of orienting the nozzle.
- Hydrauli design developed with CFD systems and optimized in order to obtain the best hydraulic efficiency levels, combined with a wide range of Capacity-Discharge Head curves.
- Standard with stainless steel AISI 431 shaft designed to resist to the bending-torsion load generated and protected by anti-wear systems (stainless steel shaft sleeves). On demand, shafts made with different materials (Duplex, AISI 630).

1) Reduction system of axial loads on all versions: balance drum, impellers with holes and return pipe (2). Last stage diffuser for radial loads removal.
3) Different configurations of mechanical seal or gland packing according to the user's requirements, based on the fluid characteristics and the use conditions.
4) Oversized ball bearings and protected from outer agents to offer a reduced working noise and a long service life. Available versions with oil soaked bearings and with a constant-level oil feeder on demand.
5) Wear ring front and rear, easy to replace, to protect diffusers, stage bodies and impellers.
6) TM series: suction profile conceived to increase the suction capacity and to reduce the NPSH and the possibility of cavitation.
7) Thrust bearings used to support axial residual loads.
8) TM and TMV series: Bushings made of antifriction materials.

TM-TMB-TMV series pumps are entirely manufactured in the SAER plants in Italy.

<table>
<tr><th rowspan="2">COMPONENTE - COMPONENT</th><th colspan="3">MATERIALE – MATERIAL</th></tr>
<tr><th colspan="2">STANDARD</th><th>A RICHIESTA - ON REQUEST</th></tr>
<tr><td>Bocca di aspirazione
Suction casing</td><td rowspan="3">Ghisa
Cast iron</td><td rowspan="3">EN-GJL-250</td><td>Acciaio Inossidabile
Stainless steel</td><td>AISI 316
(1.4408)</td></tr>
<tr><td>Diffusore
Diffuser</td><td rowspan="2">Ghisa sferoidale
Spheroidal cast iron</td><td rowspan="2">EN-GJS-500</td></tr>
<tr><td>Girante
Impeller</td></tr>
<tr><td rowspan="2">Corpo di mandata
Delivery body</td><td rowspan="2">Ghisa
Cast iron</td><td rowspan="2">EN-GJL-250</td><td>Acciaio Inossidabile
Stainless steel</td><td>AISI 316
(1.4408)</td></tr>
<tr><td>Ghisa sferoidale
Spheroidal cast iron</td><td>EN-GJS-500</td></tr>
<tr><td>Supporti
Supports</td><td colspan="4">Ghisa
Cast iron
EN-GJL 250</td></tr>
<tr><td rowspan="2">Albero
Shaft</td><td rowspan="2">Acciaio Inossidabile
Stainless steel</td><td rowspan="2">AISI 431
(1.4057)</td><td rowspan="2">Acciaio Inossidabile
Stainless steel</td><td>DUPLEX
(1.4362)</td></tr>
<tr><td>AISI 630
(1.4542)</td></tr>
<tr><td>Tenuta
Shaft seal</td><td colspan="2">Baderna
Soft packing</td><td colspan="2">Tenuta meccanica
Mechanical seal</td></tr>
</table>

40-65 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	66	77	88	99	110	121	132	143	154
	kW	HP		m³/h	0	15	17	20	22	25	27	30	32	35
				l/min	0	250	292	333	375	417	458	500	542	583
Prevalenza totale in m. – Total head in m														
40-65/2	3	4			21,5	20	19,5	19	19	18,5	18	17,5	17	16,5
40-65/3	4	5,5			32,5	30	29,5	29	28,5	28	27	26	25,5	25
40-65/4	5,5	7,5			43	40	39,5	38,5	37,8	37	36	35	34	33
40-65/5	7,5	10			53,5	50	49,5	48	47,5	46,5	45,5	44	43	41,5
40-65/6	7,5	10			64,5	60	59	57,5	56,5	55,5	54,5	52,5	51,5	49,5
40-65/7	9	12,5			75,5	70	68,5	67	65,5	65	63,5	61,5	60	58
40-65/8	11	15		H [m]	86	80	79	77	75,5	74	72,5	70	68,5	66
40-65/9	11	15			97	90	88	86,5	85	83,5	81,5	79	77	74,5
40-65/10	15	20			107,5	100	98,5	96	94,5	92,5	90,5	87,5	85,5	82,5
40-65/11	15	20			118,5	110	108,5	105,5	104	102	99,5	96,5	94	91
40-65/12	15	20			129	120	118	115	113	111	108,5	105	102,5	99
40-65/13	18,5	25			139,5	130	128	125	123	120,5	117,5	114	111	107,5
40-65/14	18,5	25			150,5	140	138	134,5	133,5	129,5	126,5	122,5	119,5	115,5
NPSHr [m]					-	1,6	1,7	1,8	2	2,2	2,5	3	3,5	4

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	79	92	106	119	132	145	158	172	185
	kW	HP		m³/h	0	18	21	24	27	30	33	36	39	42
				l/min	0	300	350	400	450	500	550	600	650	700
	S.F.1.15		Prevalenza totale in m. – Total head in m											
40-65/2	4	5,5			31	29	28	27,5	27	26,5	26	25	24,5	24
40-65/3	7,5	10			46,5	43	42	41,5	40,5	40	39	38	36,5	35,5
40-65/4	9	10			62	57,5	56	55	54	53,5	52	50,5	49	47,5
40-65/5	11	12,5			77,5	72	70	69	67,5	66,5	65	63	61	59,5
40-65/6	15	20		H [m]	93	86,5	84	82,5	81	80	78	75,5	73,5	71,5
40-65/7	15	20			108,5	101	98,5	96,5	94,5	93	90,5	88	85,5	83
40-65/8	18,5	25			124	115	112,5	110	108	106,5	103,5	101	98	95
40-65/9	18,5	25			139,5	129,5	126,5	124	121,5	120	116,5	113,5	110	107
40-65/10	22	30			155	144	140,5	138	135	133	129,5	126	122,5	119
NPSHr [m]					-	1,6	1,7	1,8	2	2,2	2,5	3	3,5	4

40-65 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

2950 RPM

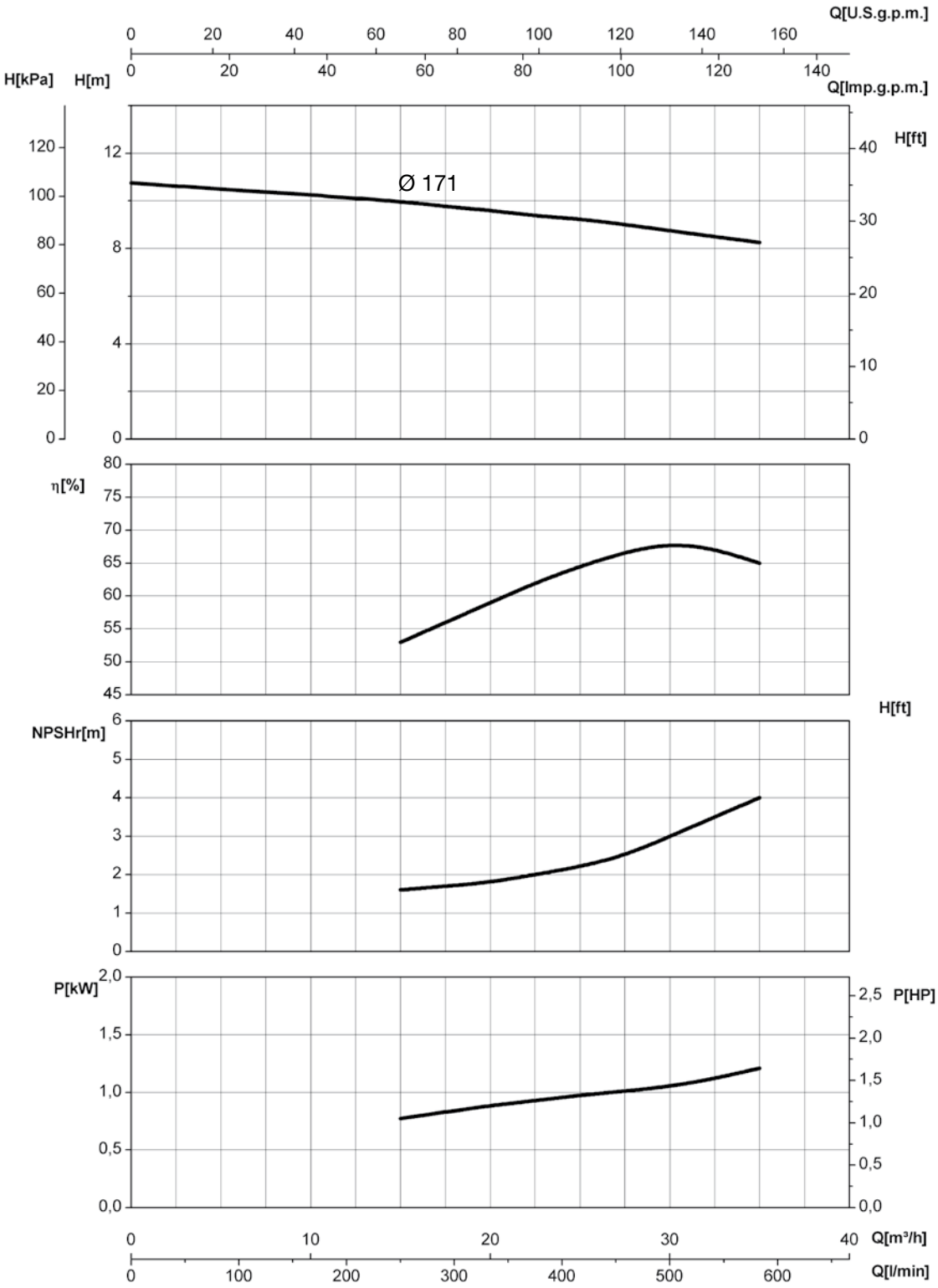
Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	132	154	176	198	220	242	264	286	308
	kW	HP		m³/h	0	30	35	40	45	50	55	60	65	70
				l/min	0	500	583	667	750	834	917	1000	1084	1167
Prevalenza totale in m. – Total head in m														
40-65/2	22	30			86	80	78	77	75,4	74	72	70	68	66
40-65/3	30	40			129	120	117	115,5	113	111	108	105	102	99
40-65/4	37	50			172	160	156	154	151	148	144	140	136	132
40-65/5	55	75			215	200	195	192,5	188,5	185	180	175	170	165
40-65/6	75	10			258	240	234	231	226	222	216	210	204	198
40-65/7	75	10			301	280	273	269,5	264	259	252	245	238	231
40-65/8	75	10		H [m]	344	320	312	308	301,5	296	288	280	272	264
40-65/9	90	125			387	360	351	346,5	339,5	333	324	315	306	297
40-65/10	110	150			430	400	390	385	377	370	360	350	340	330
40-65/11R	110	150			473	440	429	423,5	414,5	407	396	385	374	363
40-65/12R	132	180			516	480	468	462	452,5	444	432	420	408	396
40-65/13R	132	180			559	520	507	500,5	490	481	468	455	442	429
40-65/14R	160	220			602	560	546	539	528	518	504	490	476	462
NPSHr [m]					-	2	2,1	2,2	2,5	2,9	3,5	4	4,5	5

3550 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	158,4	184,8	211,2	237,6	264	290,4	316,8	343,2	369,6
	kW	HP		m³/h	0	36	42	48	54	60	66	72	78	84
				l/min	0	600	700	800	900	1000	1100	1200	1300	1400
	S.F.1.15		Prevalenza totale in m. – Total head in m											
40-65/2	37	50			124	115	112,5	109,5	108	106,5	103,5	101	98	95
40-65/3	55	75			186	173	168,5	164	162	160	155,5	151	147	142,5
40-65/4	75	100			247,5	230,5	224,5	219	216	213	207,5	201,5	196	190
40-65/5	90	125			309,5	288	281	273,5	270	266,5	259	252	245	237,5
40-65/6	110	150		H [m]	371,5	345,5	337	328,5	324	319,5	311	302,5	294	285
40-65/7R	110	150			433,5	403	393	383	378	373	363	353	342,5	332,5
40-65/8R	132	180			495,5	461	449,5	438	432	426	414,5	403	391,5	380
40-65/9R	160	220			557,5	518,5	505,5	492,5	486	479,5	466,5	453,5	440,5	427,5
40-65/10R	160	220			619	576	561,5	547	540	533	518,5	504	489,5	475
NPSHr [m]					-	2	2,1	2,2	2,5	2,9	3,5	4	4,5	5

40-65

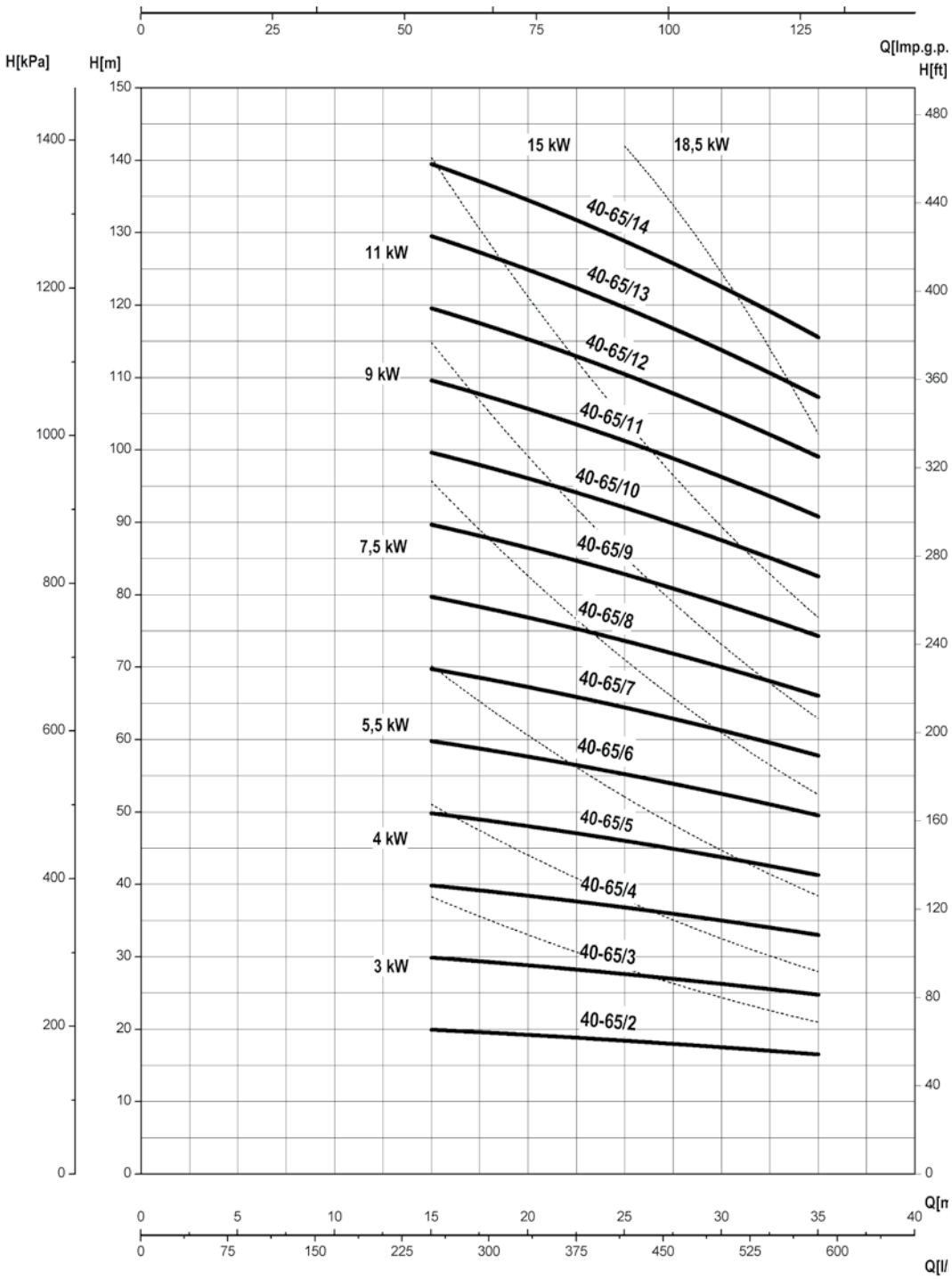
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

≈ 1450 RPM

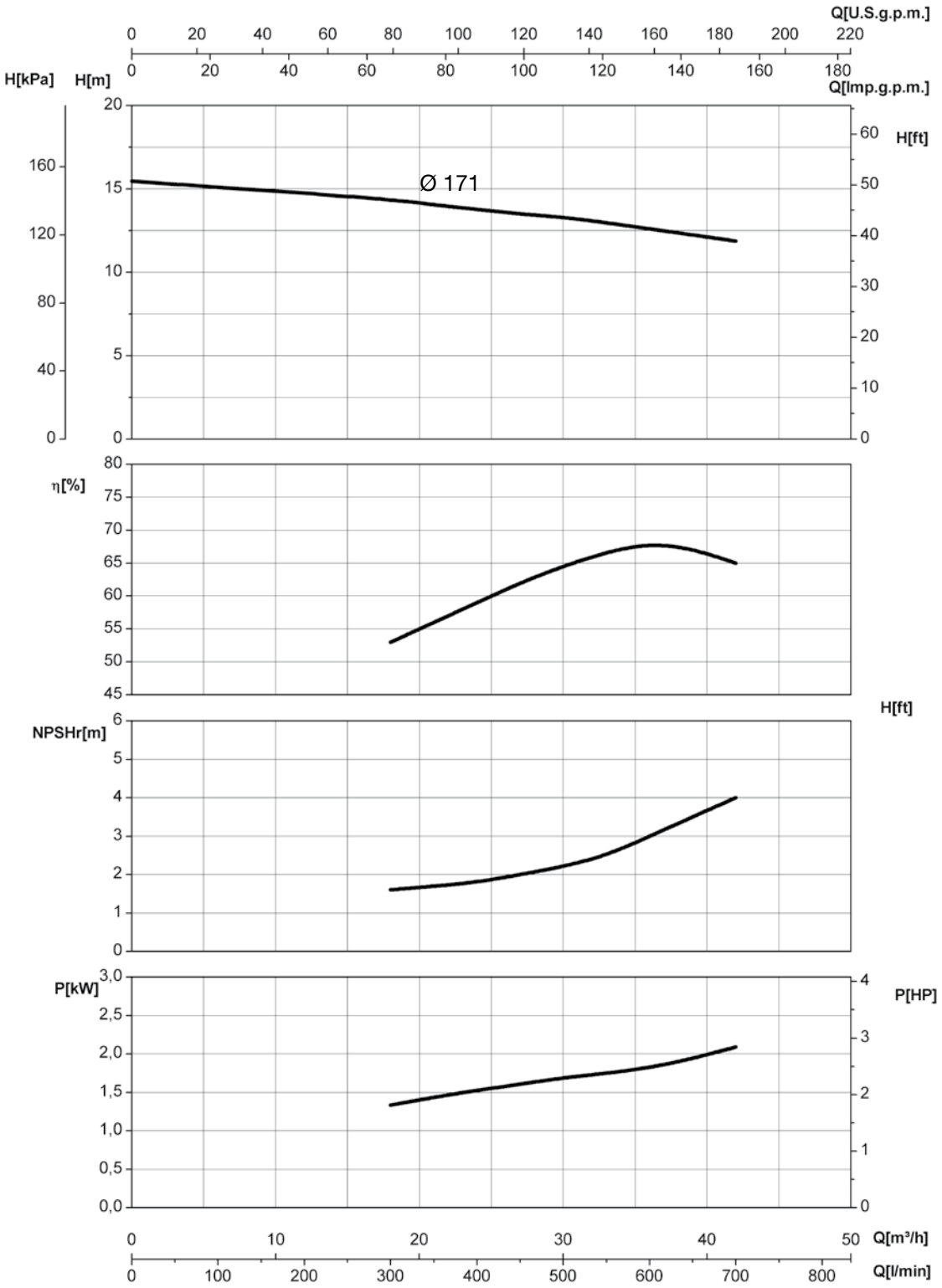


1450 RPM	40-65/2	40-65/3	40-65/4	40-65/5	40-65/6	40-65/7	40-65/8	40-65/9	40-65/10	40-65/11	40-65/12	40-65/13	40-65/14
TM	√	√	√	√	√	√	√	√	√	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	√	√	√	x	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

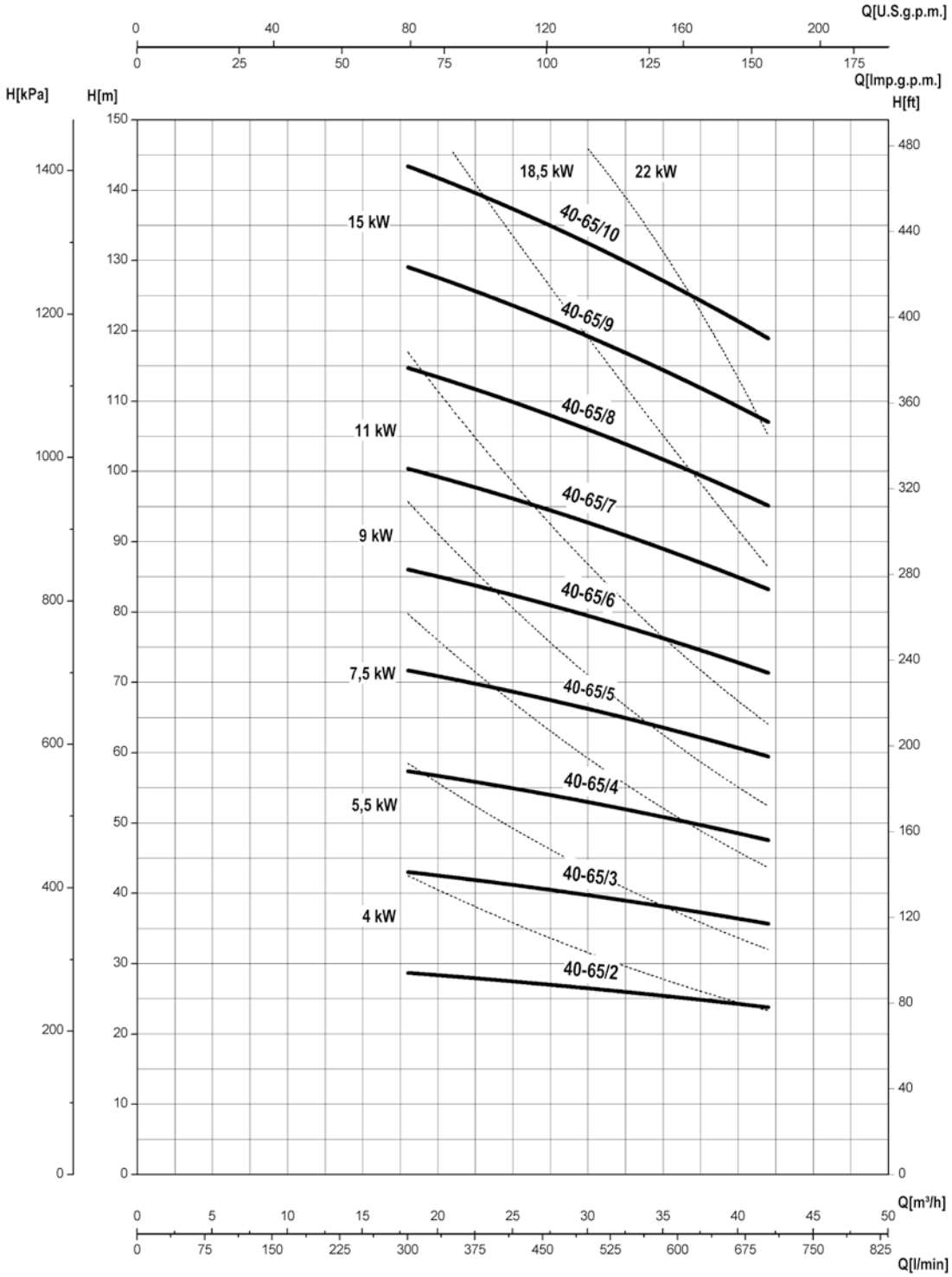
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

≈ 1750 RPM

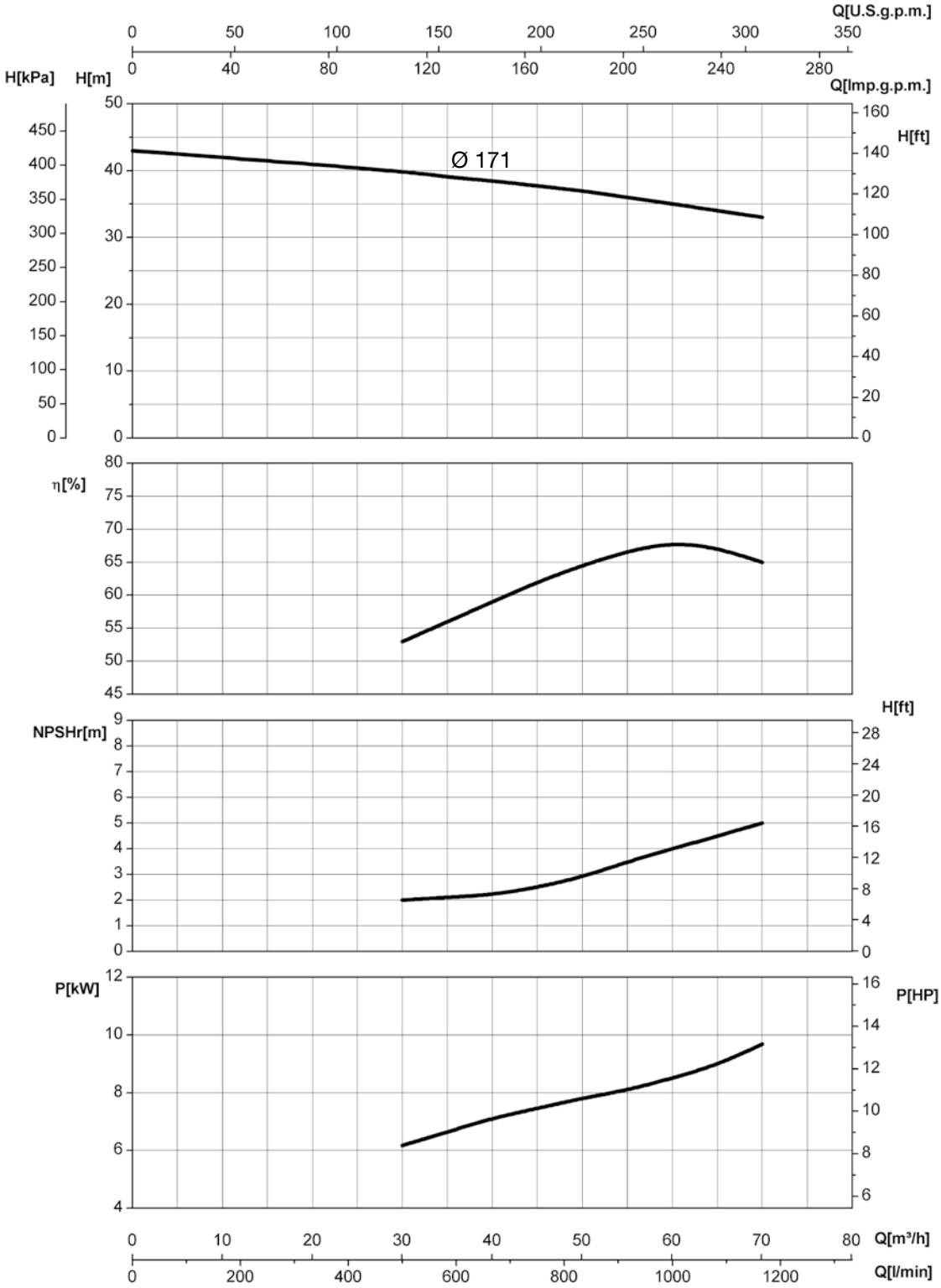


1750 RPM	40-65/2	40-65/3	40-65/4	40-65/5	40-65/6	40-65/7	40-65/8	40-65/9	40-65/10
TM	√	√	√	√	√	√	x	x	x
TMB	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

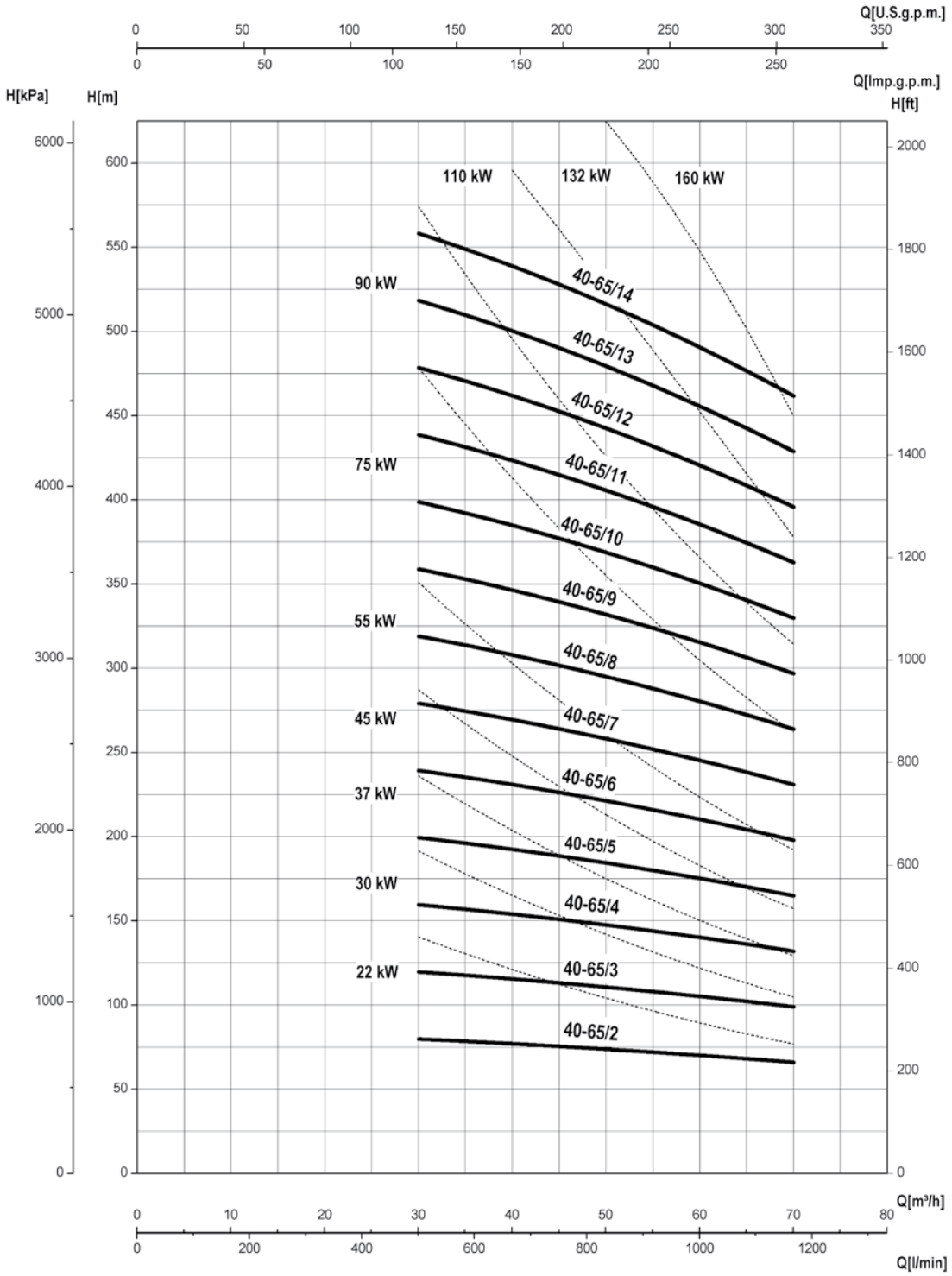
≈ 2950 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

≈ 2950 RPM

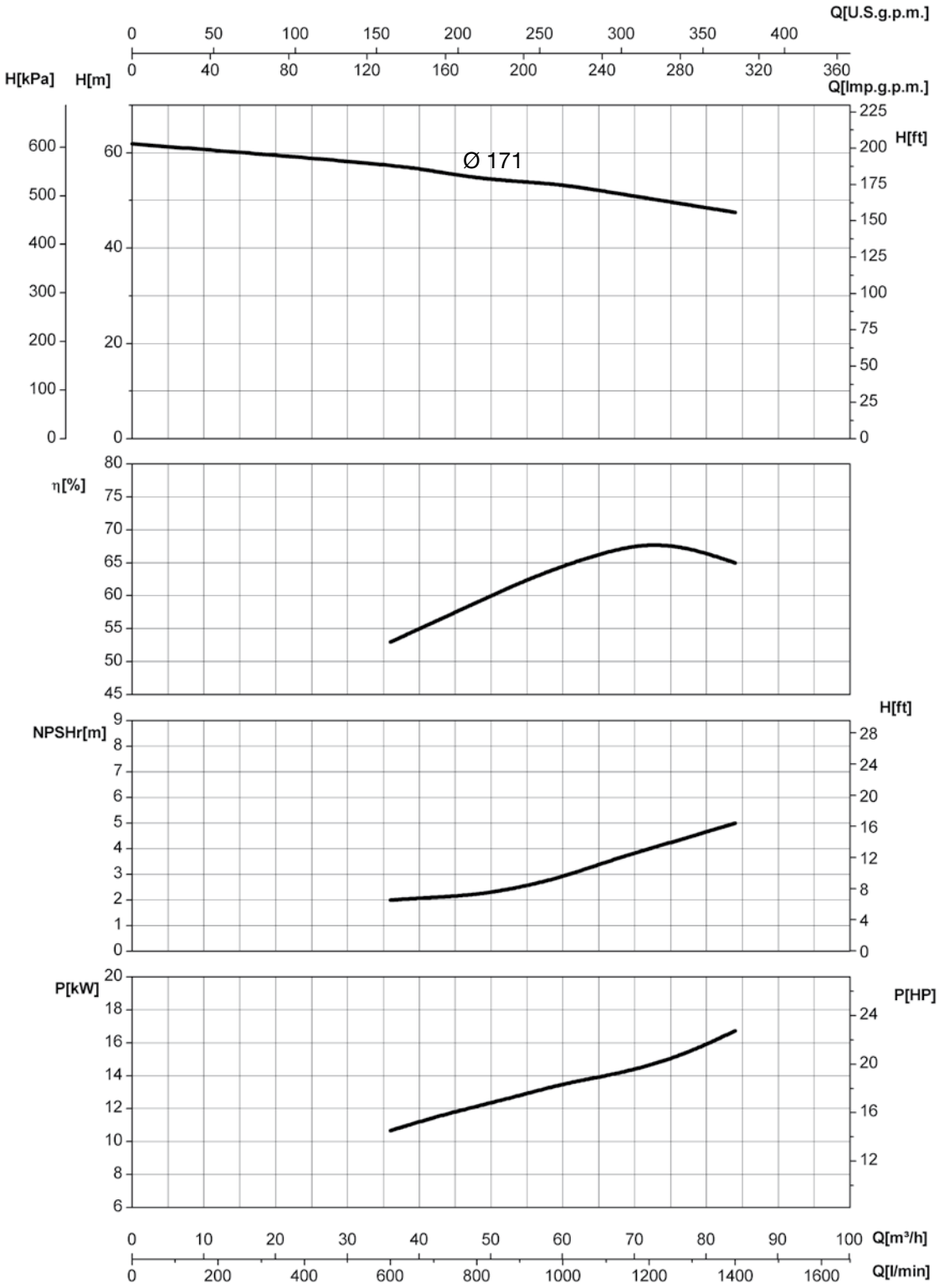


2950 RPM	40-65/2	40-65/3	40-65/4	40-65/5	40-65/6	40-65/7	40-65/8	40-65/9	40-65/10	40-65/11	40-65/12	40-65/13	40-65/14
TM	√	√	√	√	√	√	x	x	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	x	x	x	x	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

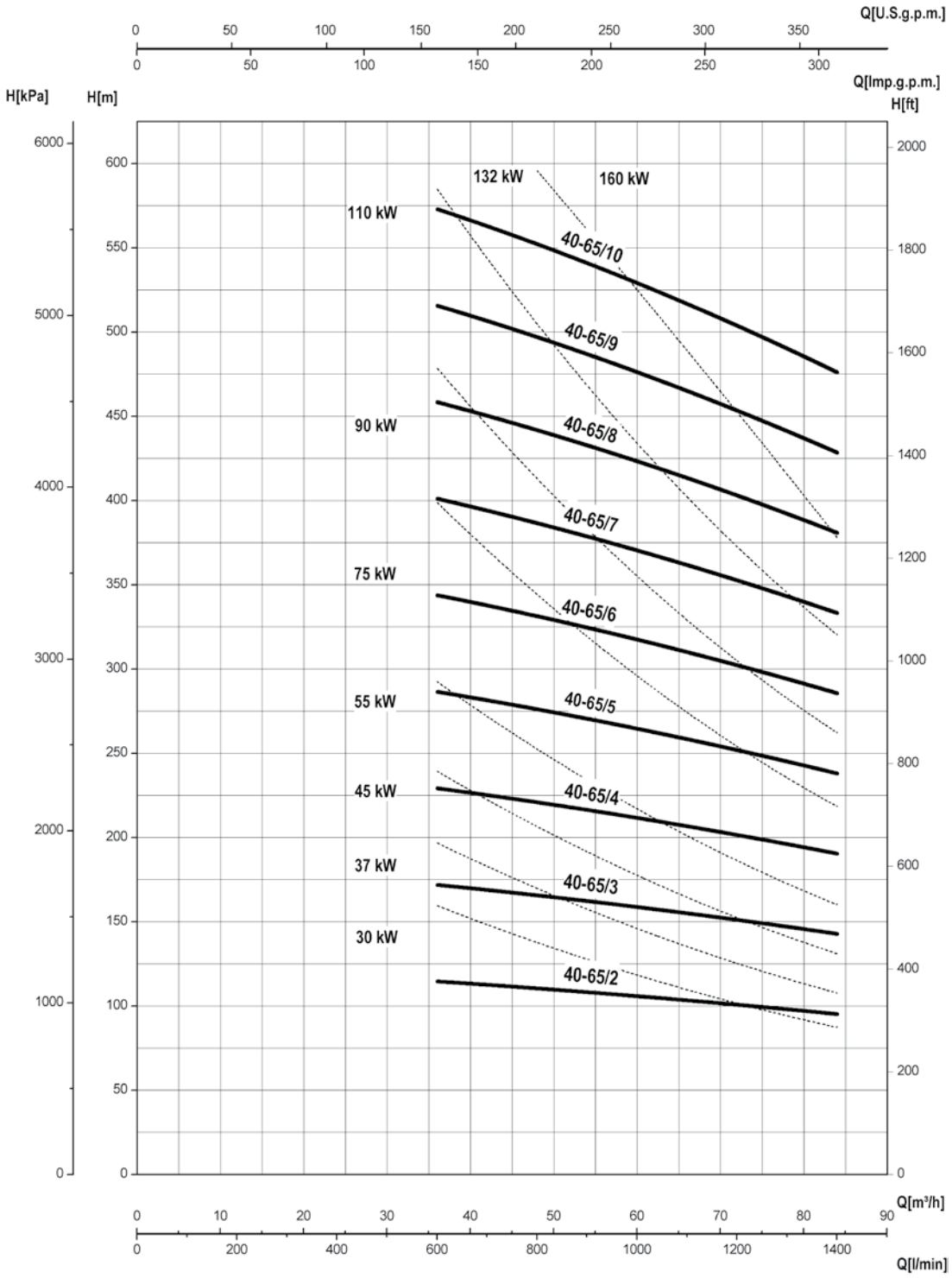
≈ 3550 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

40-65

≈ 3550 RPM

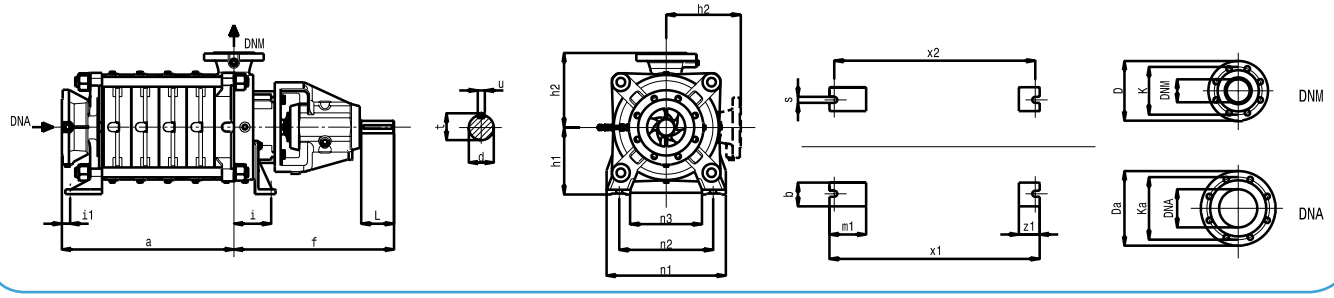


3550 RPM	40-65/2	40-65/3	40-65/4	40-65/5	40-65/6	40-65/7	40-65/8	40-65/9	40-65/10
TM	√	√	√	√	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	x	x	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

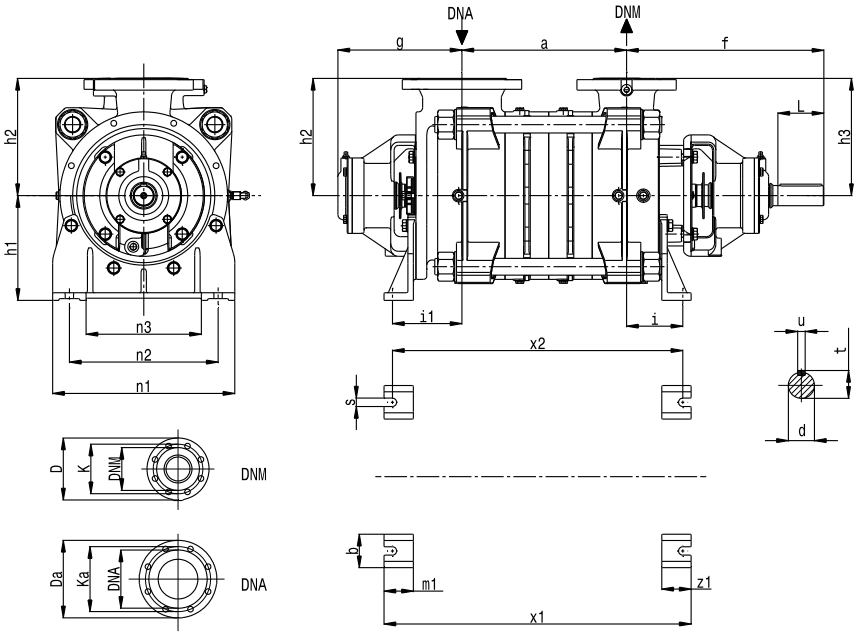
40-65 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u
TM40-65/2	40	65	220	473	311	281	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/3	40	65	290	473	381	351	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/4	40	65	360	473	451	421	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/5	40	65	430	473	521	491	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/6	40	65	500	473	591	561	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/7	40	65	570	473	661	631	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/8	40	65	640	473	731	701	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/9	40	65	710	473	801	771	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10
TM40-65/10	40	65	780	473	871	841	280	212	160	180	180	70	60	15	60	47	109	80	32	35,3	10

TMB

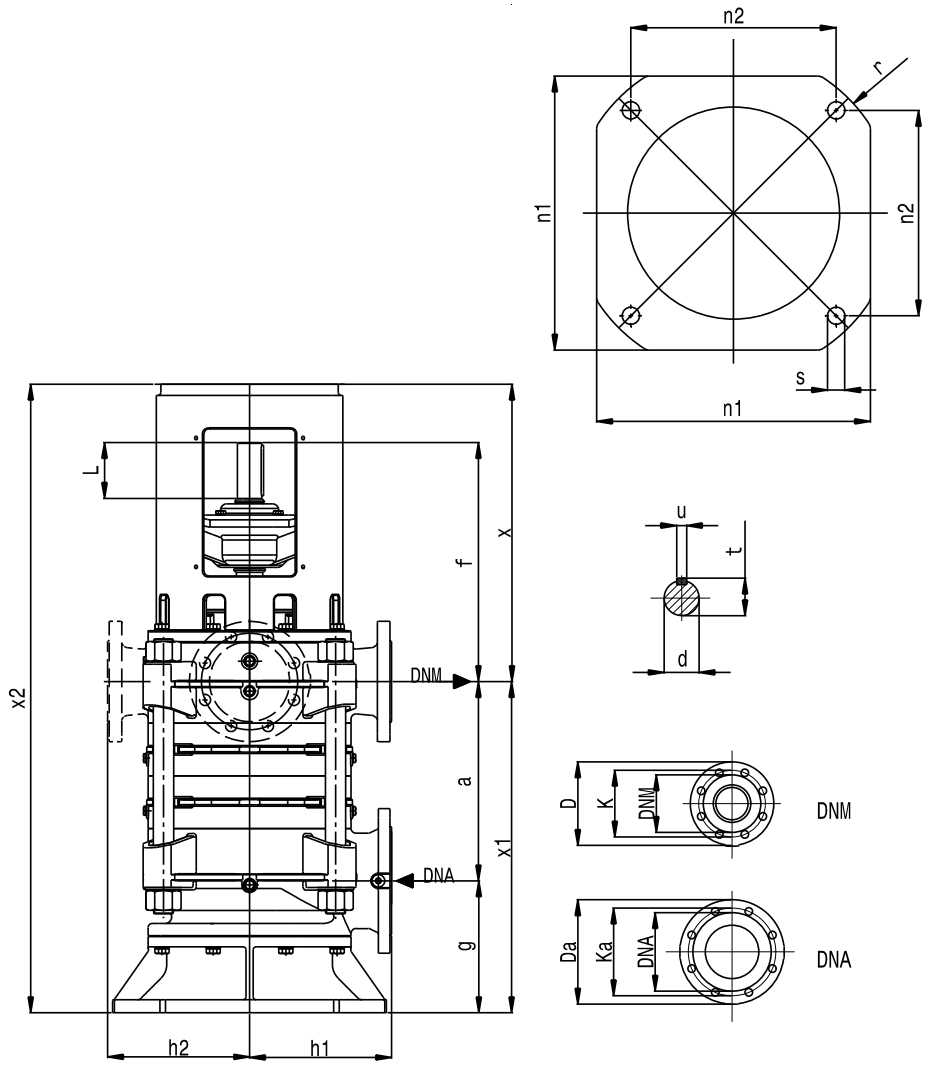


Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB40-65/2	65	40	180	268,5	380	439	409	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/3	65	40	250	268,5	380	509	479	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/4	65	40	320	268,5	380	579	549	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/5	65	40	390	268,5	380	649	619	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/6	65	40	460	268,5	380	719	689	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/7	65	40	530	268,5	380	789	759	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/8	65	40	600	268,5	380	859	829	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/9	65	40	670	268,5	380	929	899	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/10	65	40	740	268,5	380	999	969	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/11	65	40	810	268,5	380	1069	1039	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/12	65	40	880	268,5	380	1139	1109	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/13	65	40	950	268,5	380	1209	1179	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10
TMB40-65/14	65	40	1020	268,5	380	1279	1249	280	212	160	180	180	180	60	60	15	60	120	109	80	32	35,3	10

DATI PROVVISORI - TEMPORARY DATA

40-65 DIMENSIONI
DIMENSIONS

TMV



Tipo Type	DNA	DNM	a	f	g	x 2 poli	x 4 poli	x1	x2 2 poli	x2 4 poli	n1	n2	h1	h2	r	s	L	d	t	u
TMV40-65/2	65	40	180	398	189	542	512	369	911	881	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/3	65	40	250	398	189	542	512	439	981	951	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/4	65	40	320	398	189	542	512	509	1051	1021	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/5	65	40	390	398	189	542	512	579	1121	1091	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/6	65	40	460	398	189	542	512	649	1191	1161	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/7	65	40	530	398	189	542	512	719	1261	1231	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/8	65	40	600	398	189	542	512	789	1331	1301	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/9	65	40	670	398	189	542	512	859	1401	1371	380	305	180	180	250	26	80	32	35,3	10
TMV40-65/10	65	40	740	398	189	542	512	929	1471	1441	380	305	180	180	250	26	80	32	35,3	10

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	175	135	65	19	4

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	175	135	65	19	4

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN63*	170	125	40	23	4

* Versioni PN63 - Versions PN63

50-80 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	84	97	114	132	141	167	180	198	220
				m³/h	0	19	22	26	30	32	38	41	45	50
	kW	HP		l/min	0	317	367	433	500	533	633	683	750	834
Prevalenza totale in m. – Total head in m														
50-80/2	4	5,5			25	23	22,5	22	22	21,5	20,5	20	19	17,5
50-80/3	5,5	7,5			37,5	34,5	34	33	32,5	32	31	30	28,5	26,5
50-80/4	7,5	10			50	46	45	44,5	43,5	43	41	40	38	35
50-80/5	9	12,5			62,5	57,5	56,5	55,5	54,5	53,5	51,5	50	47,5	44
50-80/6	11	15			75	69	68	66,5	65,5	64	62	60	57	52,5
50-80/7	15	20		H [m]	87,5	80,5	79	77,5	76	75	72	70	66,5	61,5
50-80/8	15	20			100	92	90,5	88,5	87	85,5	82,5	80	76	70
50-80/9	18,5	25			112,5	103,5	101,5	100	98	96,5	92,5	90	85,5	79
50-80/10	18,5	25			125	115	113	111	109	107	103	100	95	87,5
50-80/11	22	30			137,5	126,5	124,5	122	119,5	117,5	113,5	110	104,5	96,5
50-80/12	22	30			150	138	135,5	132	130,5	128,5	123,5	120	114	105
50-80/13	30	40			162,5	149,5	147	144	141,5	139	134	130	123,5	114
NPSHr [m]					-	0,9	1	1,2	1,5	1,7	2,5	3	4	5,7

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	101	119	136	158	172	202	216	238	264
				m³/h	0	23	27	31	36	39	46	49	54	60
	kW	HP		l/min	0	383	450	517	600	650	767	817	900	1000
	S.F.1.15		Prevalenza totale in m. – Total head in m											
50-80/2	7,5	10			36	33	32,5	32	31,5	30,5	29,5	29	27,5	25
50-80/3	9	12,5			54	50	48,5	48	47	46	44,5	43	41	38
50-80/4	15	20			72	66,5	65	64	62,5	61,5	59	57,5	55	50,5
50-80/5	18,5	25		H [m]	90	83	81	80	78,5	77	74	72	68,5	63
50-80/6	18,5	25			108	99,5	97	96	94	92	89	86,5	82	75,5
50-80/7	22	30			126	116	113,5	112	109,5	107,5	103,5	101	96	88
50-80/8	30	40			144	133	129,5	128	125,5	123	118,5	115	109,5	101
50-80/9	30	40			162	149,5	146	144	141	138,5	133	129,5	123,5	113,5
NPSHr [m]					-	0,9	1	1,2	1,5	1,7	2,5	3	4	5,7

50-80 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

2950 RPM

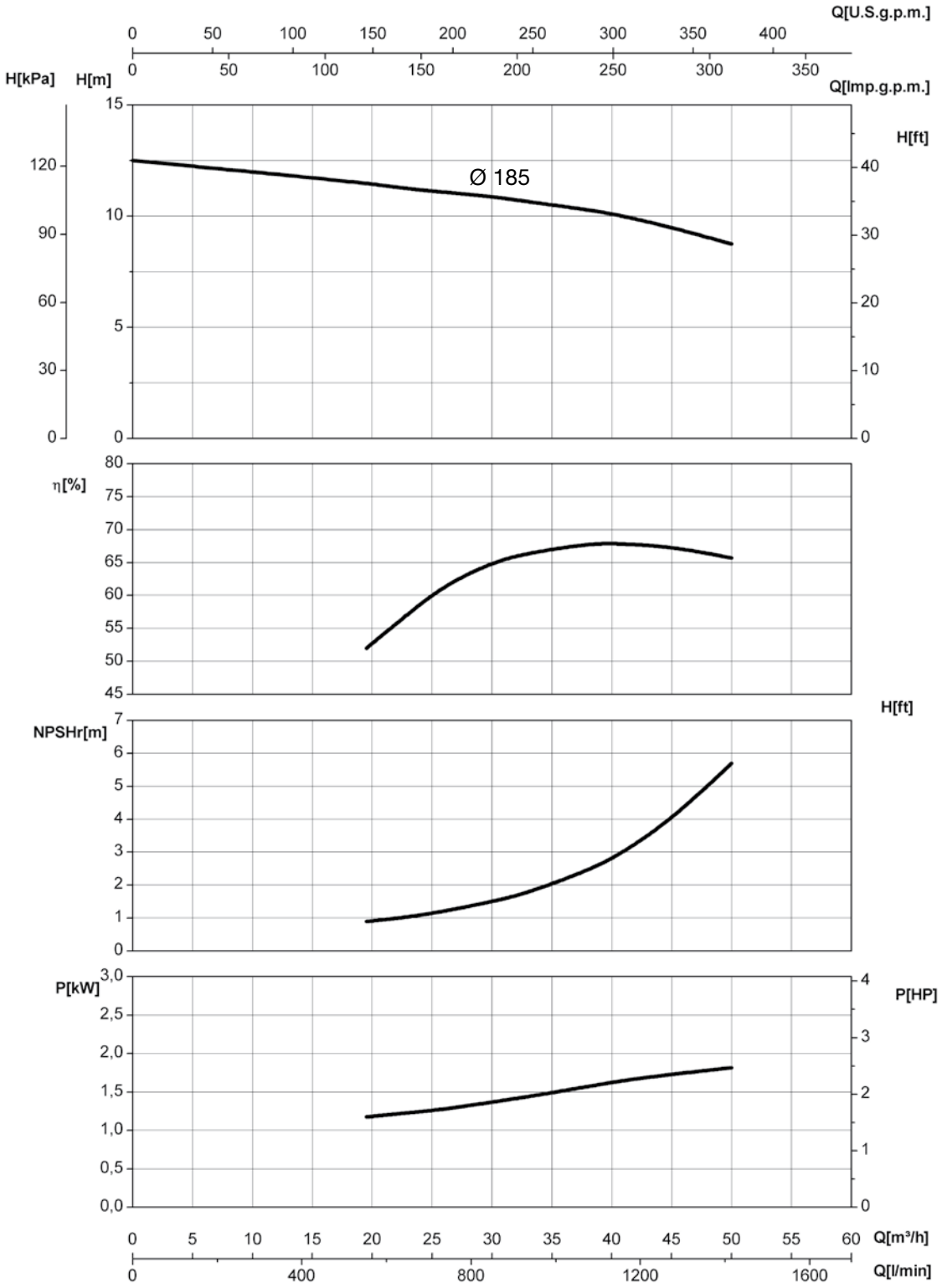
Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	172	198	229	264	286	339	361	396	440
				m³/h	0	39	45	52	60	65	77	82	90	100
	kW	HP		l/min	0	650	750	867	1000	1084	1284	1367	1500	1667
				Prevalenza totale in m. – Total head in m										
50-80/2	30	40			100	92	90	88,5	87	85,5	82	80	76	70
50-80/3	45	60			150	138	135	133	130,5	128	123	120	114	105
50-80/4	75	100			200	184	180	177	174	171	164	160	152	140
50-80/5	75	100			250	230	225	221,5	217,5	213,5	205	200	190	175
50-80/6	90	125			300	276	270	266	261	256	246	240	228	210
50-80/7	110	150		H [m]	350	322	315	310	304,5	299	287	280	266	245
50-80/8	132	180			400	368	360	354,5	348	341,5	328	320	304	280
50-80/9	132	180			450	414	405	399	391,5	384,5	369	360	342	315
50-80/10R	160	220			500	460	450	443	435	427	410	400	380	350
50-80/11R	160	220			550	506	495	487,5	478,5	469,5	451	440	418	385
50-80/12R	200	270			600	552	540	531,5	522	512,5	492	480	456	420
50-80/13R	200	270			640	598	585	576	565,5	555	533	520	494	455
NPSHr [m]					-	1,9	2	2,2	2,5	2,7	3,5	4	5	6,7

3550 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	207	238	273	317	343	405	431	475	528
				m³/h	0	47	54	62	72	78	92	98	108	120
	kW	HP		l/min	0	783	900	1033	1200	1300	1534	1634	1800	2000
	S.F.1.15			Prevalenza totale in m. – Total head in m										
50-80/2	55	75			144	132,5	129,5	127,5	125,5	123	118	115,5	109,5	101
50-80/3	75	100			216	198,5	194,5	191,5	188	184,5	177,5	173,5	164	151
50-80/4	110	150			288	265	259	255	250,5	246	236,5	231	219	201,5
50-80/5	132	180		H [m]	360	331	324	319	313	307,5	295,5	289	273,5	252
50-80/6R	160	220			432	397	389	383	376	369	354,5	347	328,5	302,5
50-80/7R	200	270			504	463,5	453,5	446,5	438,5	430,5	413,5	404,5	383	353
50-80/8R	200	270			576	529,5	518,5	510,5	501	492	473	462,5	438	403
50-80/9R	250	340			640	596	583	574	564	553,5	532	520	492,5	453,5
NPSHr [m]					-	1,9	2	2,2	2,5	2,7	3,5	4	5	6,7

50-80

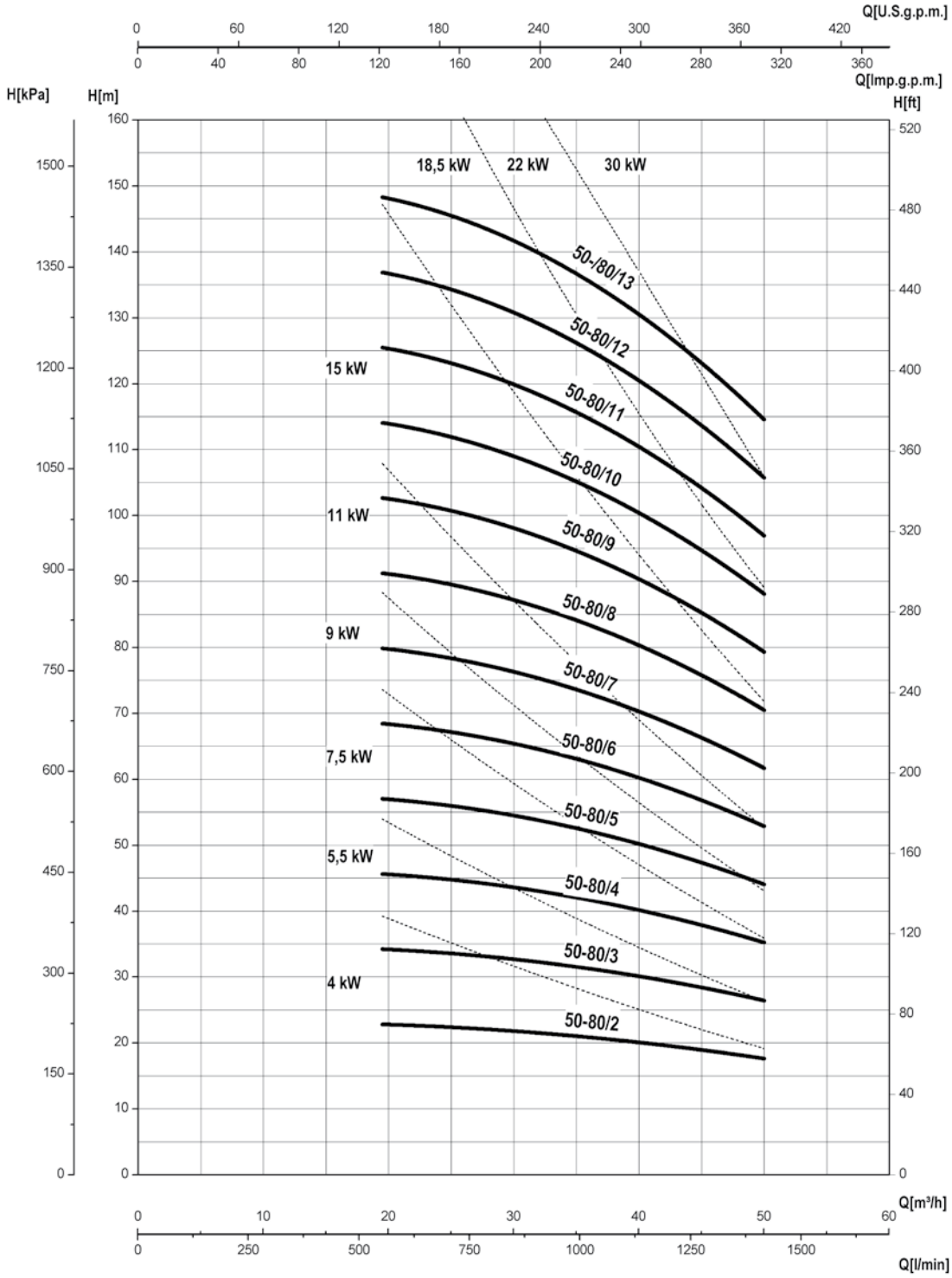
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

≈ 1450 RPM

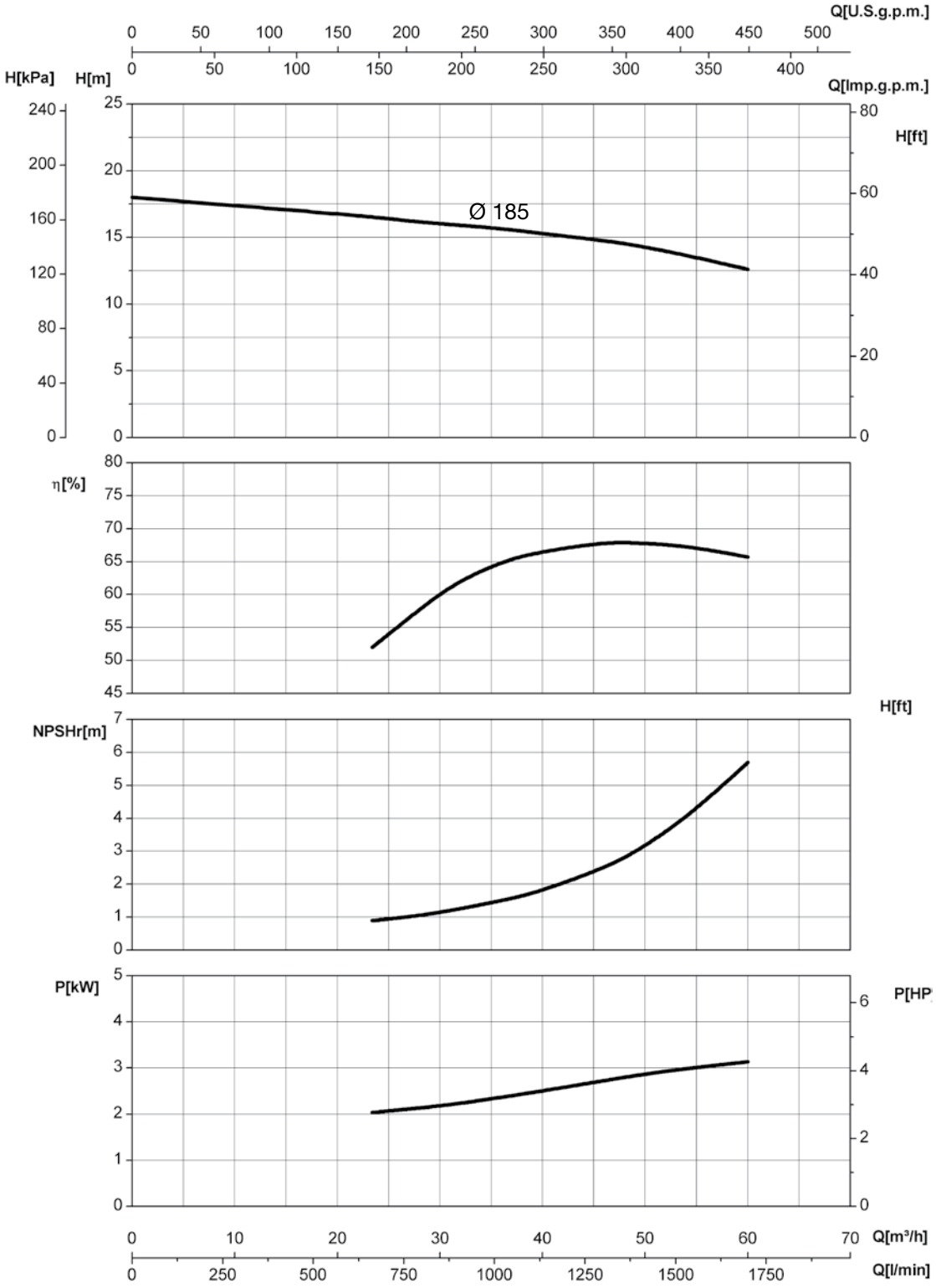


1450 RPM	50-80/2	50-80/3	50-80/4	50-80/5	50-80/6	50-80/7	50-80/8	50-80/9	50-80/10	50-80/11	50-80/12	50-80/13
TM	√	√	√	√	√	√	√	√	√	x	x	x
TMB	√	√	√	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	√	√	x	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

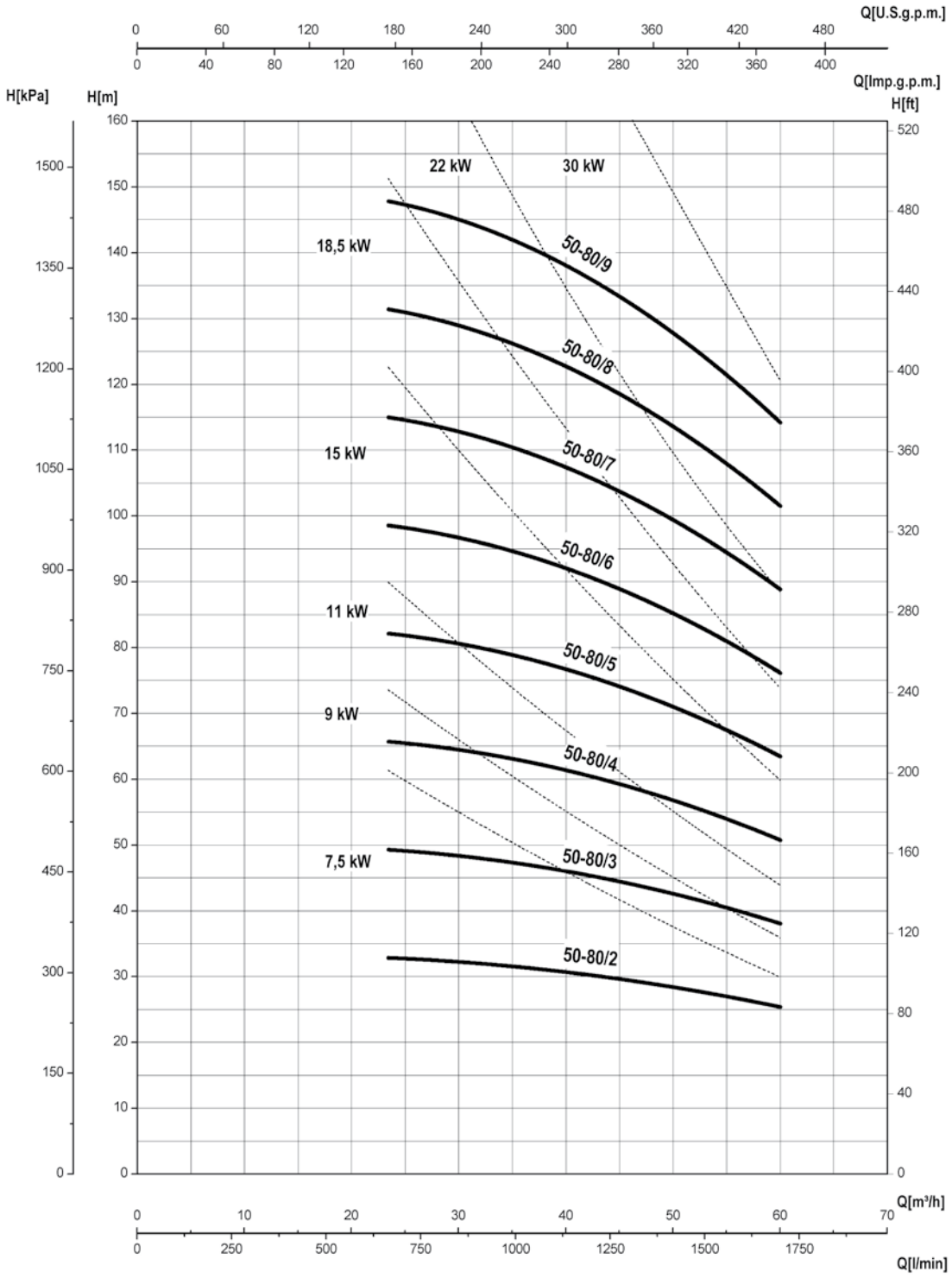
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

≈ 1750 RPM

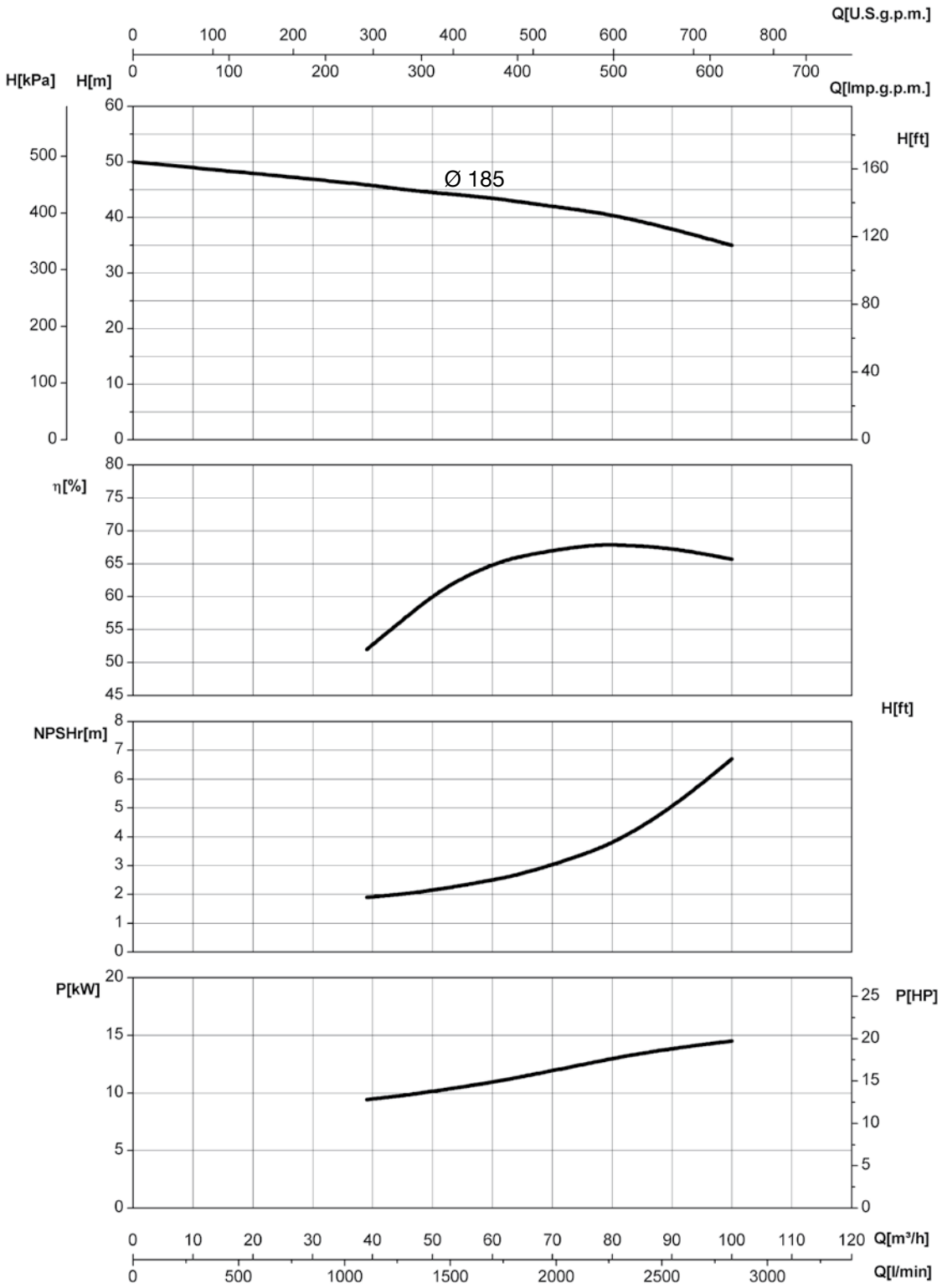


1750 RPM	50-80/2	50-80/3	50-80/4	50-80/5	50-80/6	50-80/7	50-80/8	50-80/9
TM	√	√	√	√	√	√	x	x
TMB	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

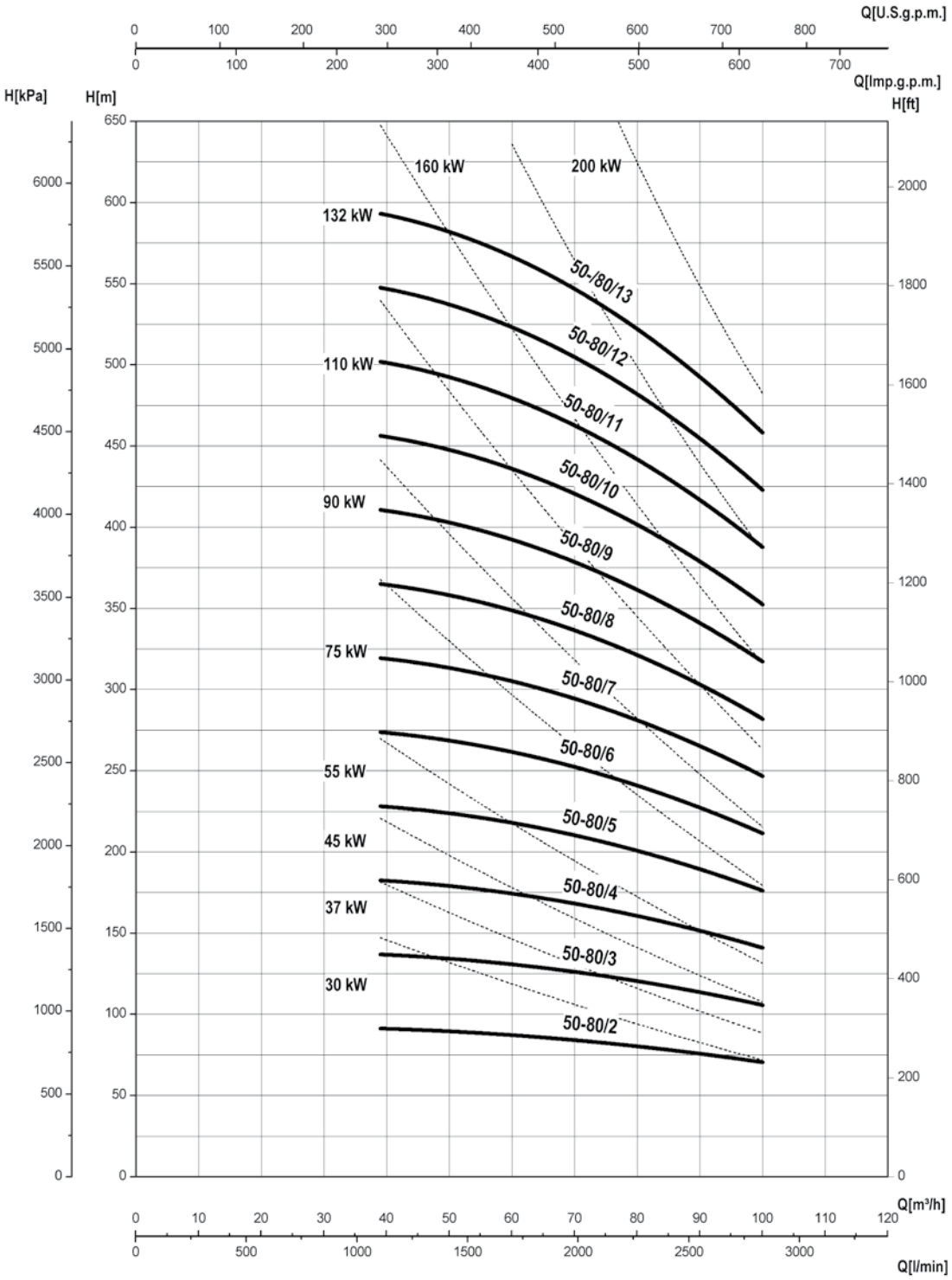
≈ 2950 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

≈ 2950 RPM

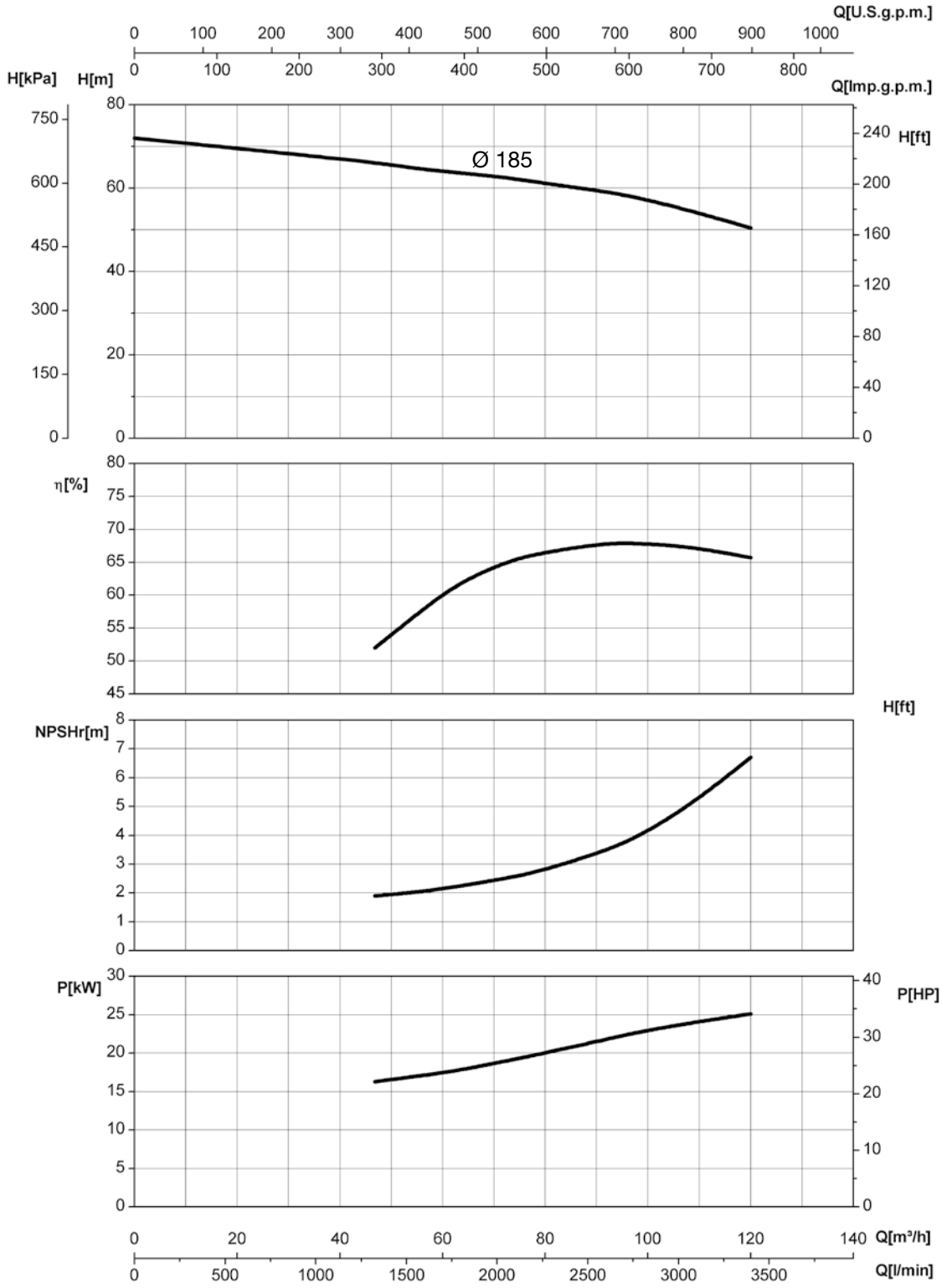


2950 RPM	50-80/2	50-80/3	50-80/4	50-80/5	50-80/6	50-80/7	50-80/8	50-80/9	50-80/10	50-80/11	50-80/12	50-80/13
TM	√	√	√	√	√	x	x	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	x	x	x	x	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

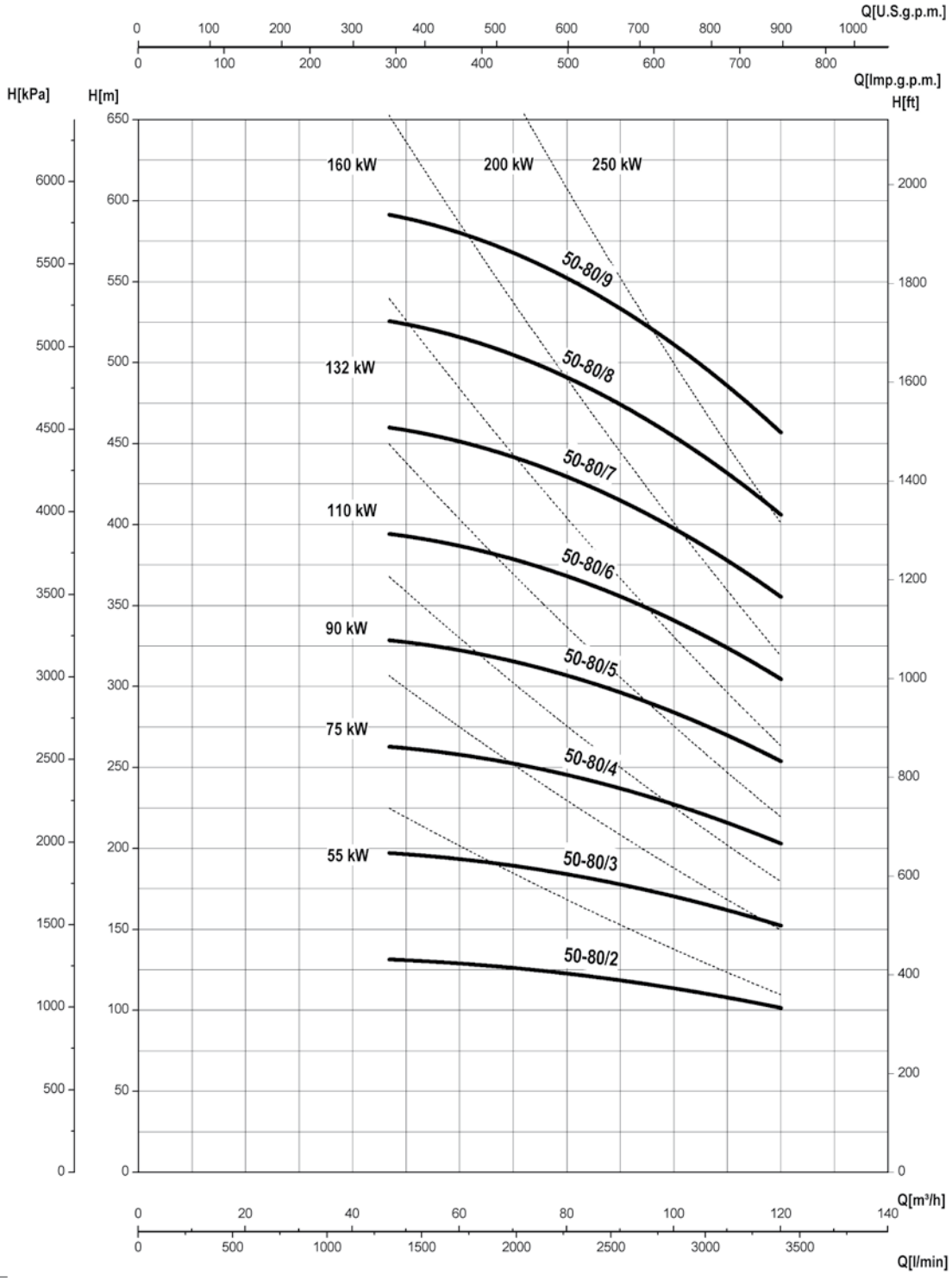
≈ 3550 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

50-80

≈ 3550 RPM

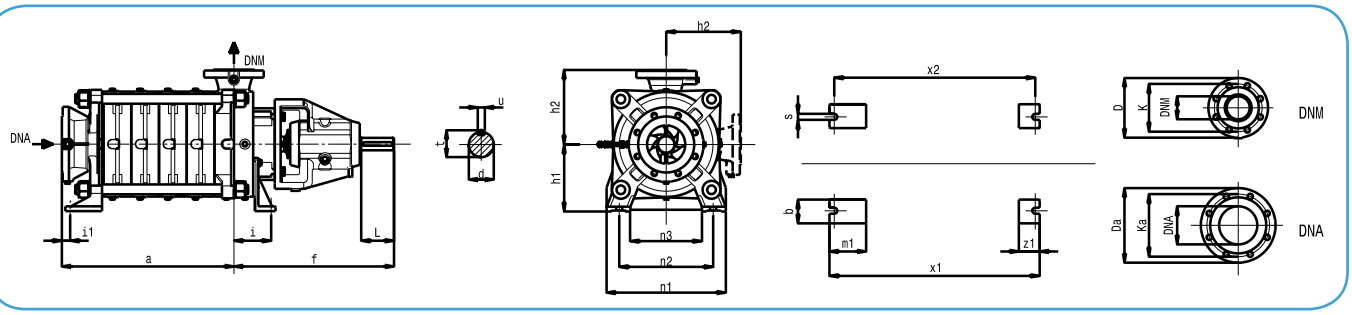


3550 RPM	50-80/2	50-80/3	50-80/4	50-80/5	50-80/6	50-80/7	50-80/8	50-80/9
TM	√	√	√	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√
TMV	√	√	√	x	x	v	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

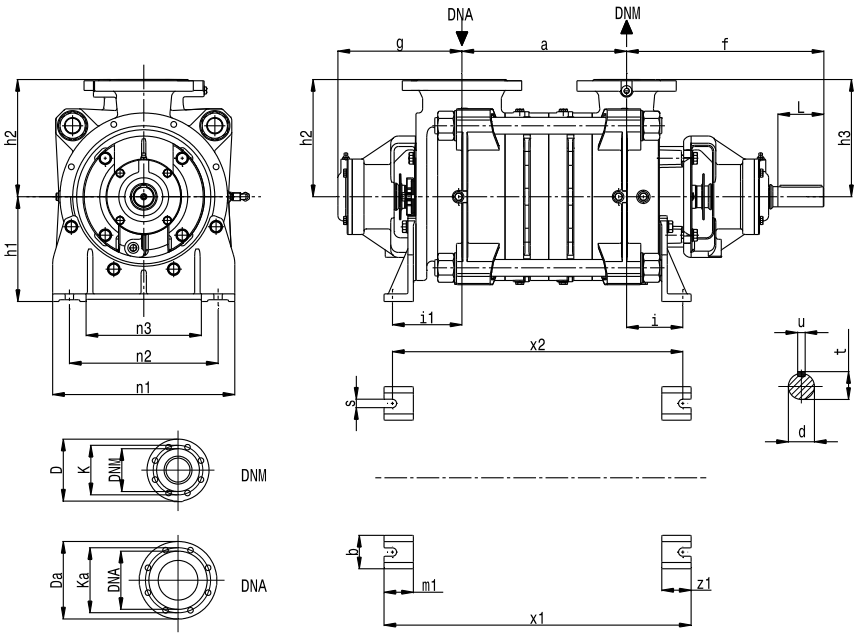
50-80 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u
TM50-80/2	50	80	237	470	327	300	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/3	50	80	315	470	406	378	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/4	50	80	393	470	484	456	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/5	50	80	471	470	562	534	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/6	50	80	549	470	640	612	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/7	50	80	627	470	718	690	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/8	50	80	705	470	796	768	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/9	50	80	783	470	874	846	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10
TM50-80/10	50	80	861	470	952	924	280	212	160	180	200	70	60	15	60	47	110	80	38	41,3	10

TMB

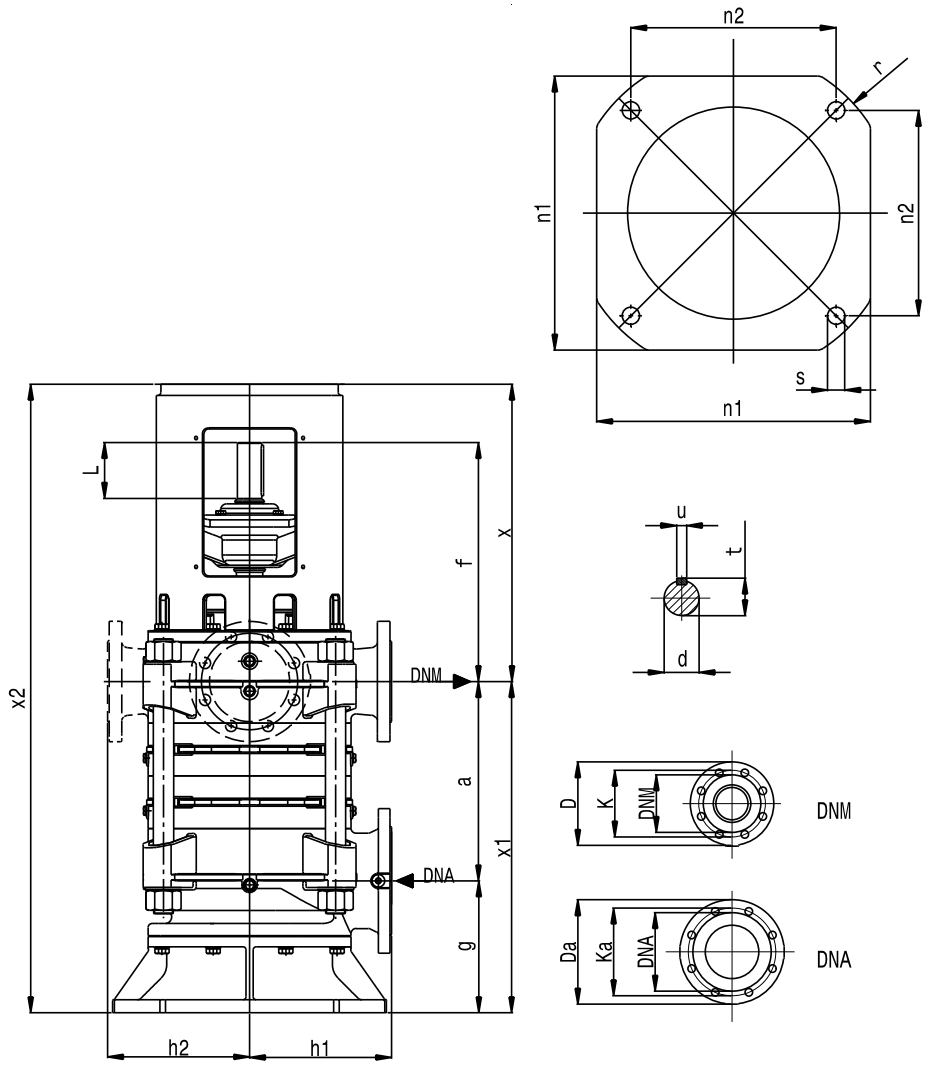


Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB50-80/2	80	50	199	269,5	383	458	428	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/3	80	50	277	269,5	383	536	506	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/4	80	50	355	269,5	383	614	584	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/5	80	50	433	269,5	383	692	662	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/6	80	50	511	269,5	383	770	740	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/7	80	50	589	269,5	383	848	818	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/8	80	50	667	269,5	383	926	896	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/9	80	50	745	269,5	383	1004	974	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/10	80	50	823	269,5	383	1082	1052	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/11	80	50	901	269,5	383	1160	1130	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/12	80	50	979	269,5	383	1238	1208	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10
TMB50-80/13	80	50	1057	269,5	383	1316	1286	280	212	160	180	200	200	60	60	15	60	120	109	80	38	41,3	10

DATI PROVVISORI - TEMPORARY DATA

50-80 DIMENSIONI
DIMENSIONS

TMV



Tipo Type	DNA	DNM	a	f	g	x 2 poli	x 4 poli	x1	x2 2 poli	x2 4 poli	n1	n2	h1	h2	r	s	L	d	t	u
TMV50-80/2	80	50	199	389	189	542	512	388	930	900	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/3	80	50	277	389	189	542	512	466	1008	978	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/4	80	50	355	389	189	542	512	544	1086	1056	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/5	80	50	433	389	189	542	512	622	1164	1134	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/6	80	50	511	389	189	542	512	700	1242	1212	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/7	80	50	589	389	189	542	512	778	1320	1290	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/8	80	50	667	389	189	542	512	856	1389	1368	380	305	200	200	250	26	80	38	41,3	10
TMV50-80/9	80	50	745	389	189	542	512	934	1476	1446	380	305	200	200	250	26	80	38	41,3	10

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	200	160	80	19	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	165	125	50	19	4

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN63*	180	135	50	23	4

* Versioni PN63 - Versions PN63

65-100 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	132	176	220	264	308	352	396	440	484
				m^3/h	0	30	40	50	60	70	80	90	100	110
	kW	HP		l/min	0	500	667	833	1000	1167	1333	1500	1667	1833
Prevalenza totale in m. – Total head in m														
65-100/2	9	12,5			33	30	29	28	27	25	23	21	18	14
65-100/3	15	20			49,5	45	43,5	42	40,5	37,5	34,5	31,5	27	21
65-100/4	18,5	25			66	60	58	56	54	50	46	42	36	28
65-100/5	22	30			82,5	75	72,5	70	67,5	62,5	57,5	52,5	45	35
65-100/6	30	40			99	90	87	84	81	75	69	63	54	42
65-100/7	30	40		H [m]	115,5	105	101,5	98	94,5	87,5	80,5	73,5	63	49
65-100/8	37	50			132	120	116	112	108	100	92	84	72	56
65-100/9	37	50			148,5	135	130,5	126	121,5	112,5	103,5	94,5	81	63
65-100/10	45	60			165	150	145	140	135	125	115	105	90	70
65-100/11	45	60			181,5	165	159,5	154	148,5	137,5	126,5	115,5	99	77
65-100/12	55	75			198	180	174	198	162	150	138	126	108	84
NPSHr [m]					-	-	2,2	2,3	2,4	2,7	3,5	5,4	7,4	10

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	132	176	220	264	308	352	396	440	484	528	572
				m^3/h	0	30	40	50	60	70	80	90	100	110	120	130
	kW	HP		l/min	0	500	667	833	1000	1167	1333	1500	1667	1833	2000	2167
	S.F.1.15		Prevalenza totale in m. – Total head in m													
65-100/2	15	20			49	46	45	44	42	41	40	38	36	34	29	23
65-100/3	22	30			73,5	69	67,5	66	63	61,5	60	57	54	51	43,5	34,5
65-100/4	30	40			98	92	90	88	84	82	80	76	72	68	58	46
65-100/5	37	50			122,5	115	112,5	110	105	102,5	100	95	90	85	72,5	57,5
65-100/6	45	60		H [m]	147	138	135	132	126	123	120	114	108	102	87	69
65-100/7	55	75			171,5	161	157,5	154	147	143,5	140	133	126	119	101,5	80,5
65-100/8	55	75			196	184	180	176	168	164	160	152	144	136	116	92
65-100/9	75	100			220,5	207	202,5	198	189	184,5	180	171	162	153	130,5	103,5
65-100/10	75	100			245	230	225	220	210	205	200	190	180	170	145	115
NPSHr [m]					-	-	2,4	2,5	2,6	2,9	3,3	4	4,8	6	7,4	9,3

65-100 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

2950 RPM

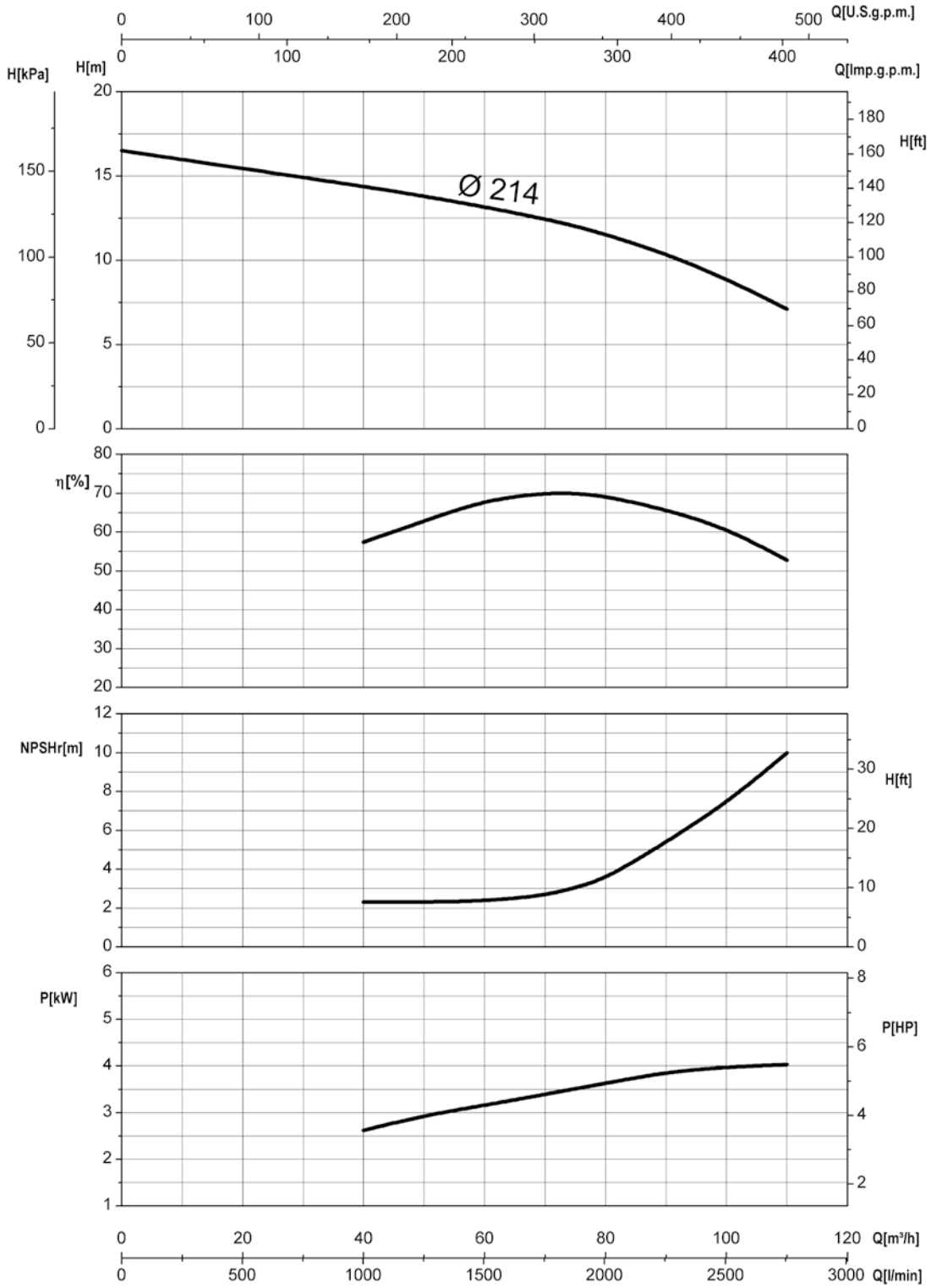
Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	264	308	352	396	440	484	528	572	616	660	704
				m^3/h	0	60	70	80	90	100	110	120	130	140	150	160
	kW	HP		l/min	0	1000	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667
Prevalenza totale in m. – Total head in m																
65-100/2	75	100			136	126	122	120	118	116	113	111	109	104	100	96
65-100/3	90	125			204	189	183	180	177	174	169,5	166,5	163,5	156	150	144
65-100/4	132	180			272	252	244	240	236	232	226	222	218	208	200	192
65-100/5	160	220		H [m]	340	315	305	300	295	290	282,5	277,5	272,5	260	250	240
65-100/6	200	270			408	378	366	360	354	348	339	333	327	312	300	288
65-100/7R	250	340			476	441	427	420	413	406	395,5	388,5	381,5	364	350	336
65-100/8R	250	340			544	504	488	480	472	464	452	444	436	416	400	384
NPSHr [m]					-	2,5	2,7	2,9	3	3,2	3,5	3,9	4,4	4,8	5,4	6,6

3550 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	308	352	396	440	484	528	572	616	660	704	748
				m^3/h	0	70	80	90	100	110	120	130	140	150	160	170
	kW	HP		l/min	0	1167	1333	1500	1667	1833	2000	2167	2333	2500	2667	2833
	S.F.1.15		Prevalenza totale in m. – Total head in m													
65-100/2	110	150			196	180	176	174	172	170	168	166	162	160	156	148
65-100/3	160	220			294	270	264	261	258	255	252	249	243	240	234	222
65-100/4	200	270		H [m]	392	360	352	348	344	340	336	332	324	320	312	296
65-100/5R	250	340			490	450	440	435	430	425	420	415	405	400	390	370
65-100/6R	280	380			588	540	528	522	516	510	504	498	486			
NPSHr [m]					-	2,7	3	3,4	3,9	4,4	4,9	5,7	6,4	7,3	8,1	9,1

65-100

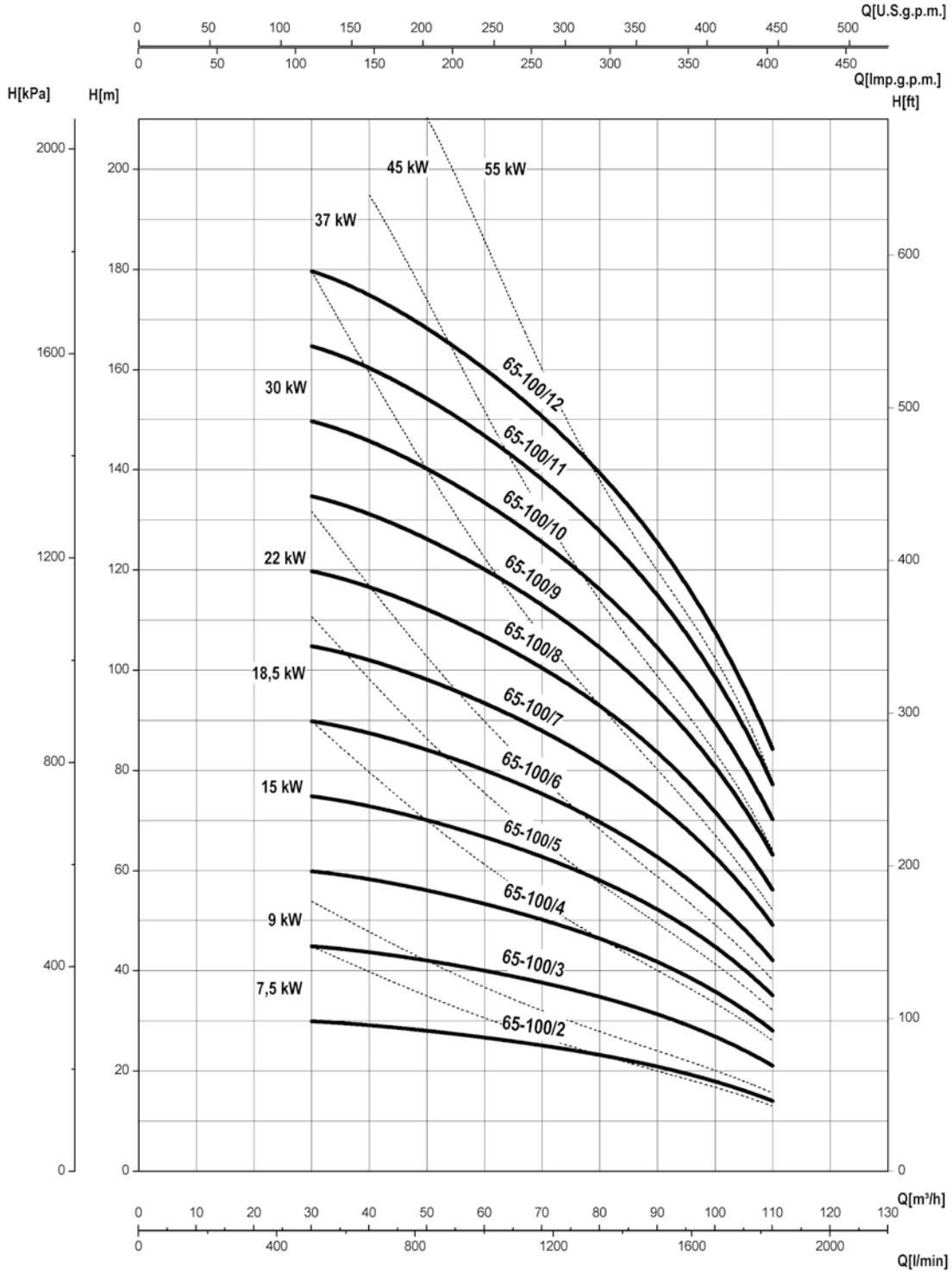
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

≈ 1450 RPM

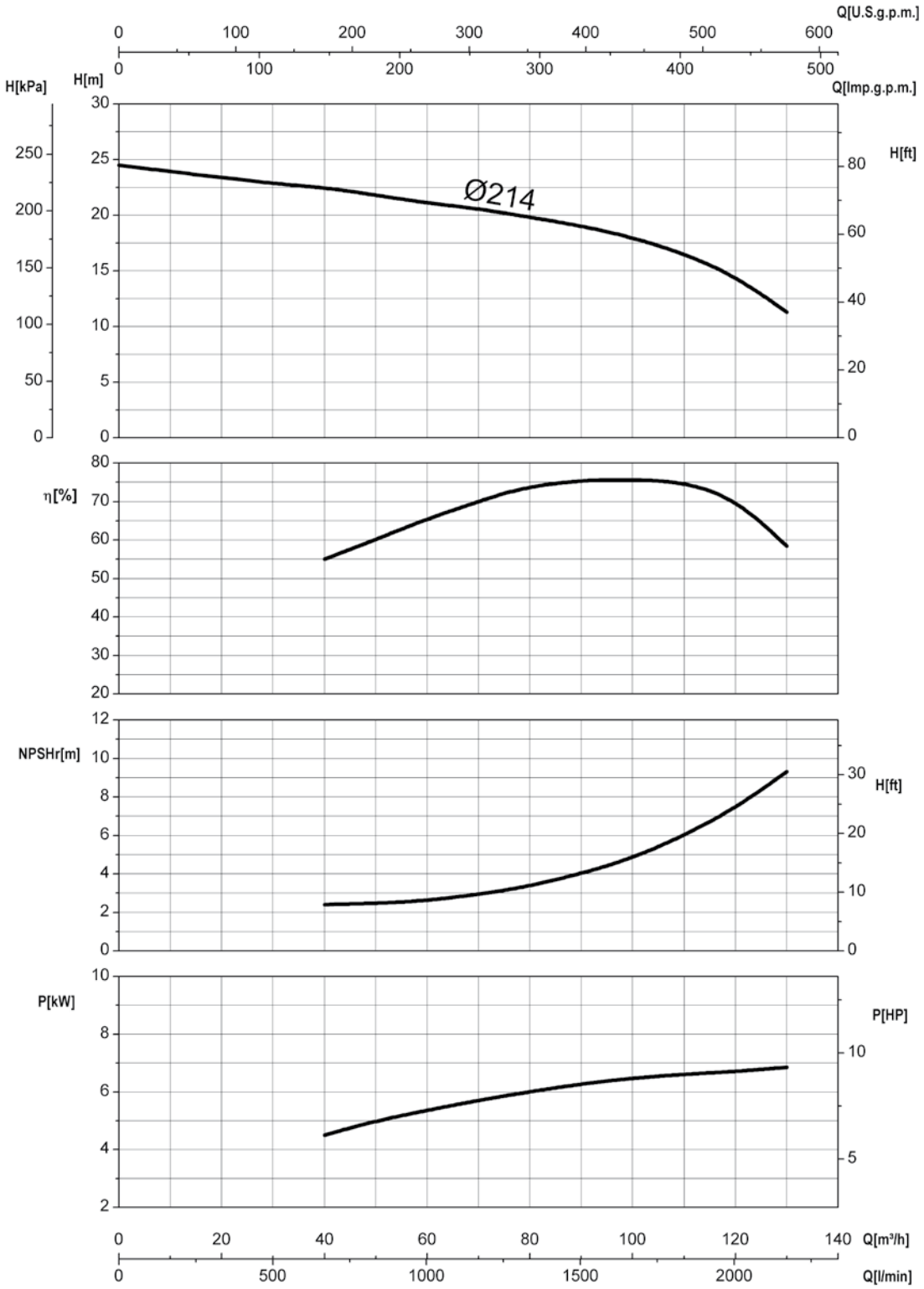


1450 RPM	65-100/2	65-100/3	65-100/4	65-100/5	65-100/6	65-100/7	65-100/8	65-100/9	65-100/10	65-100/11	65-100/12
TM	√	√	√	√	x	x	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	√	√	√	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

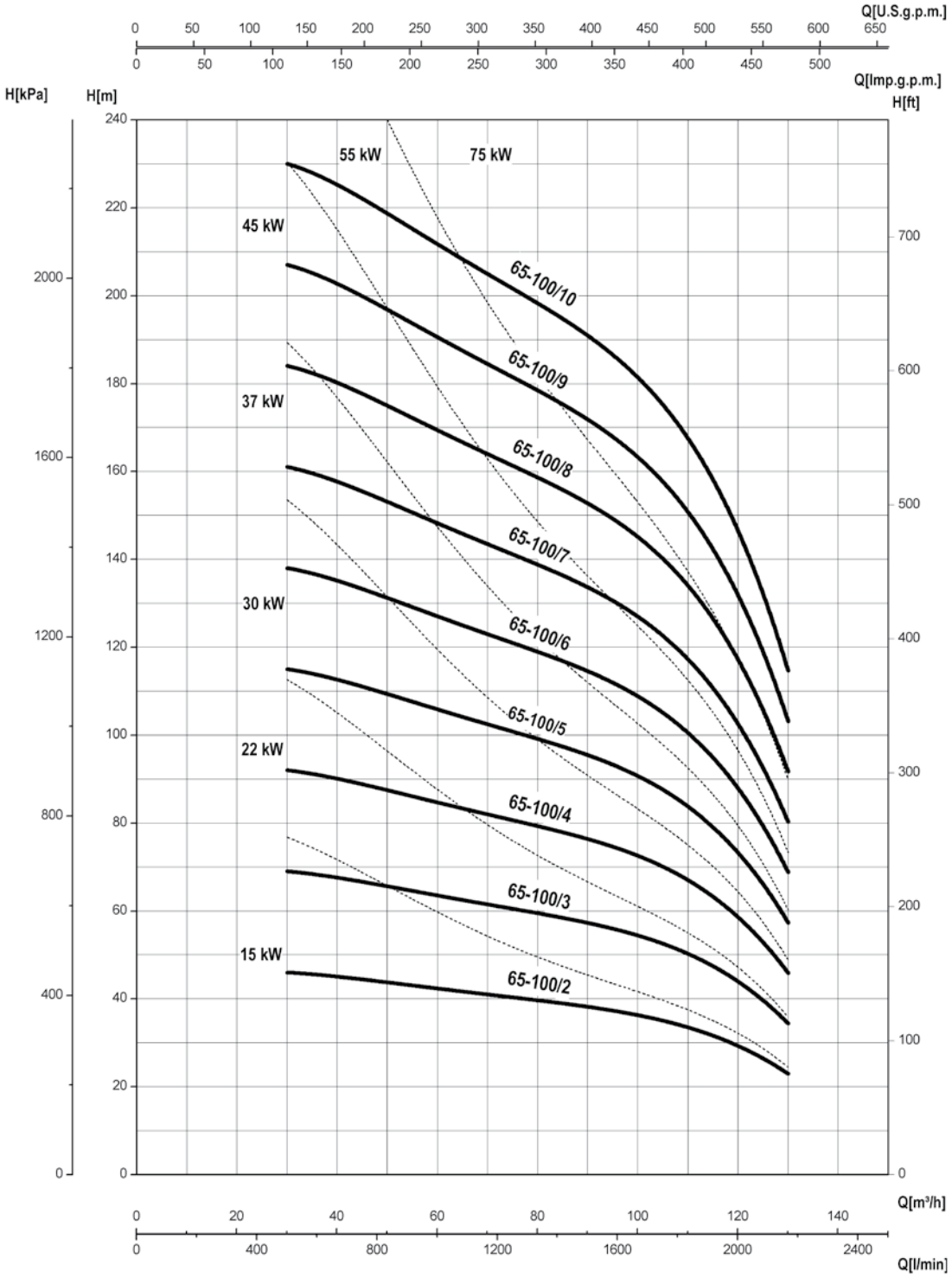
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

≈ 1750 RPM

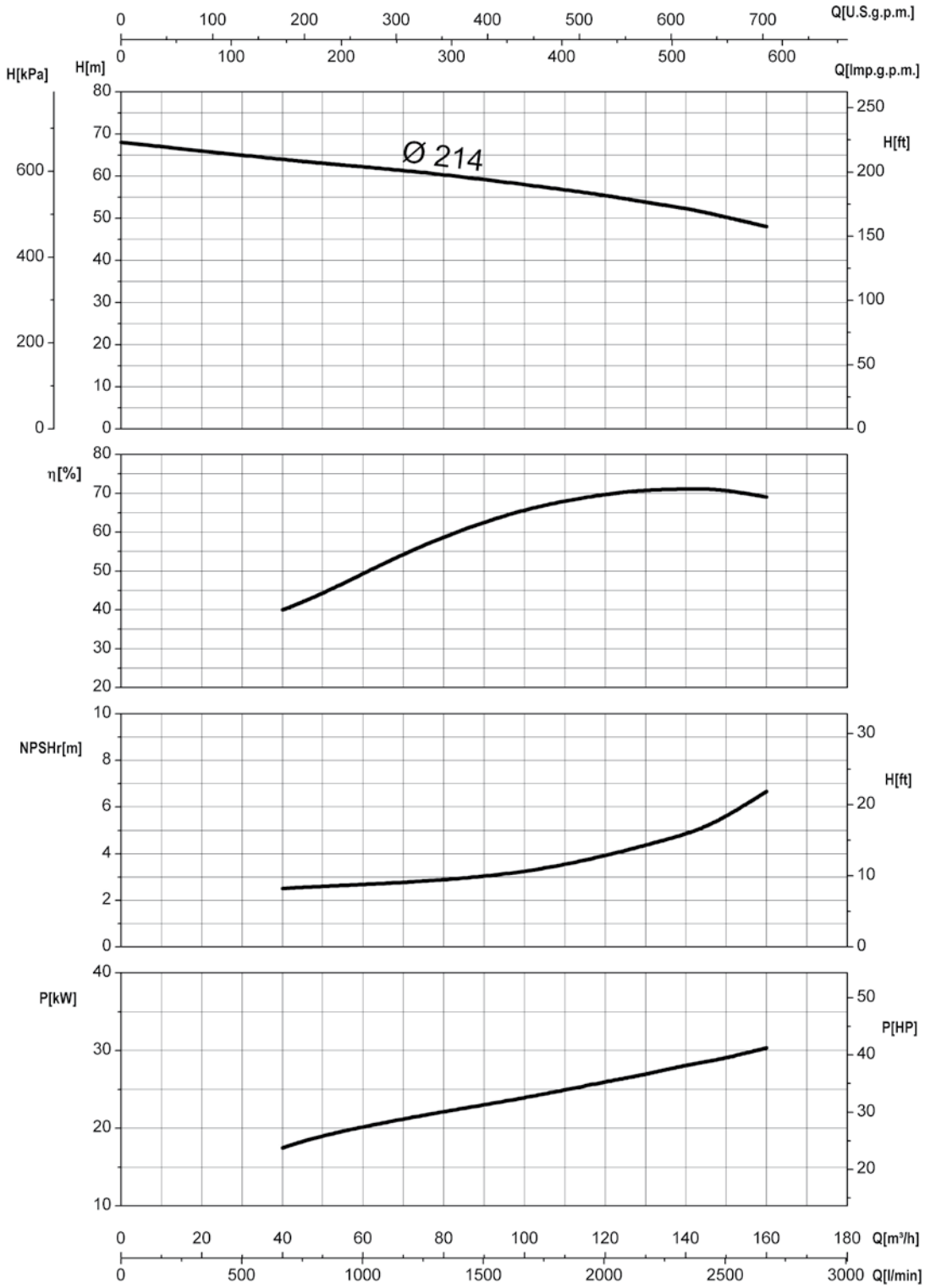


1750 RPM	65-100/2	65-100/3	65-100/4	65-100/5	65-100/6	65-100/7	65-100/8	65-100/9	65-100/10
TM	√	√	√	√	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	x	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

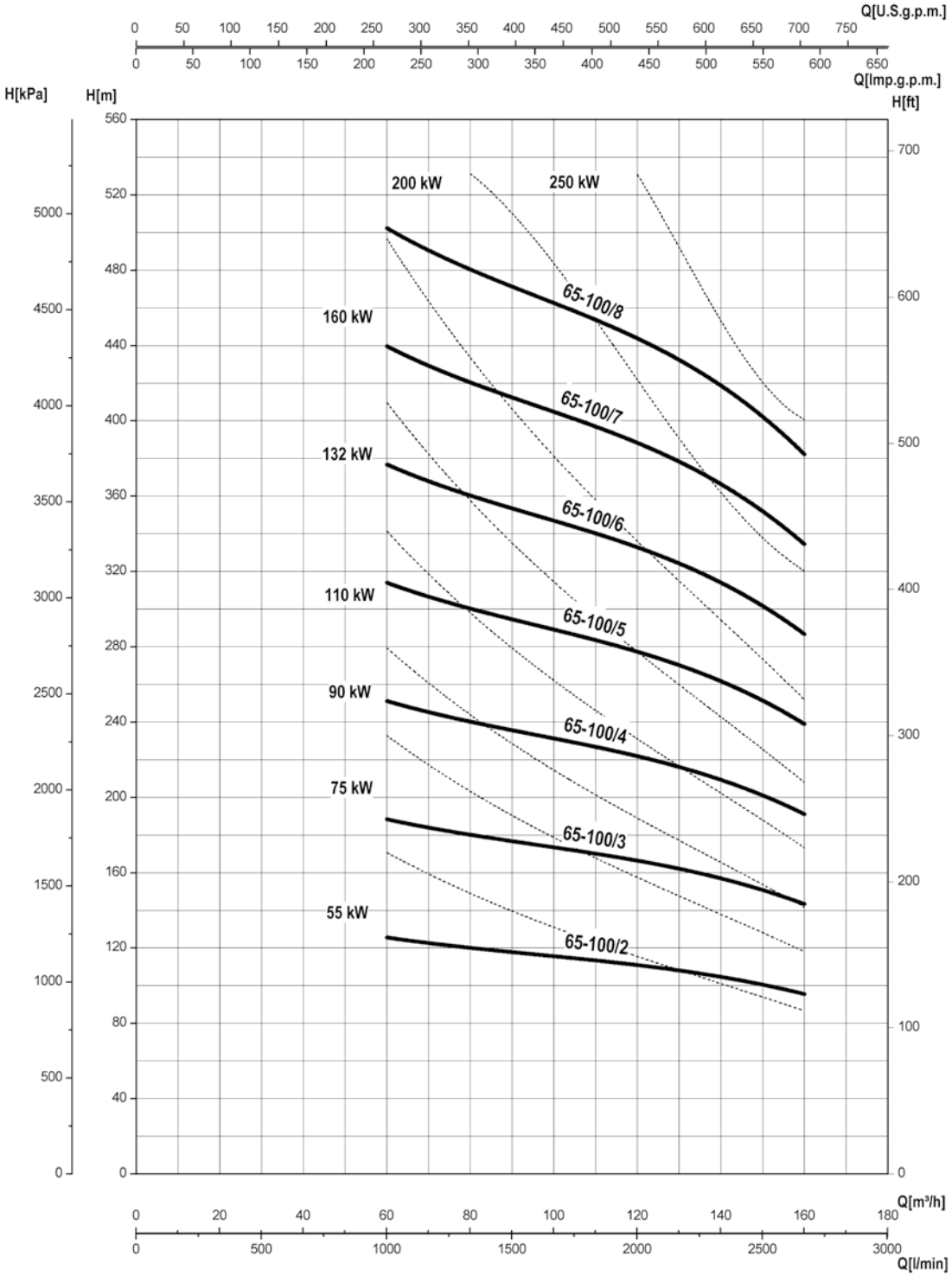
≈ 2950 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

≈ 2950 RPM

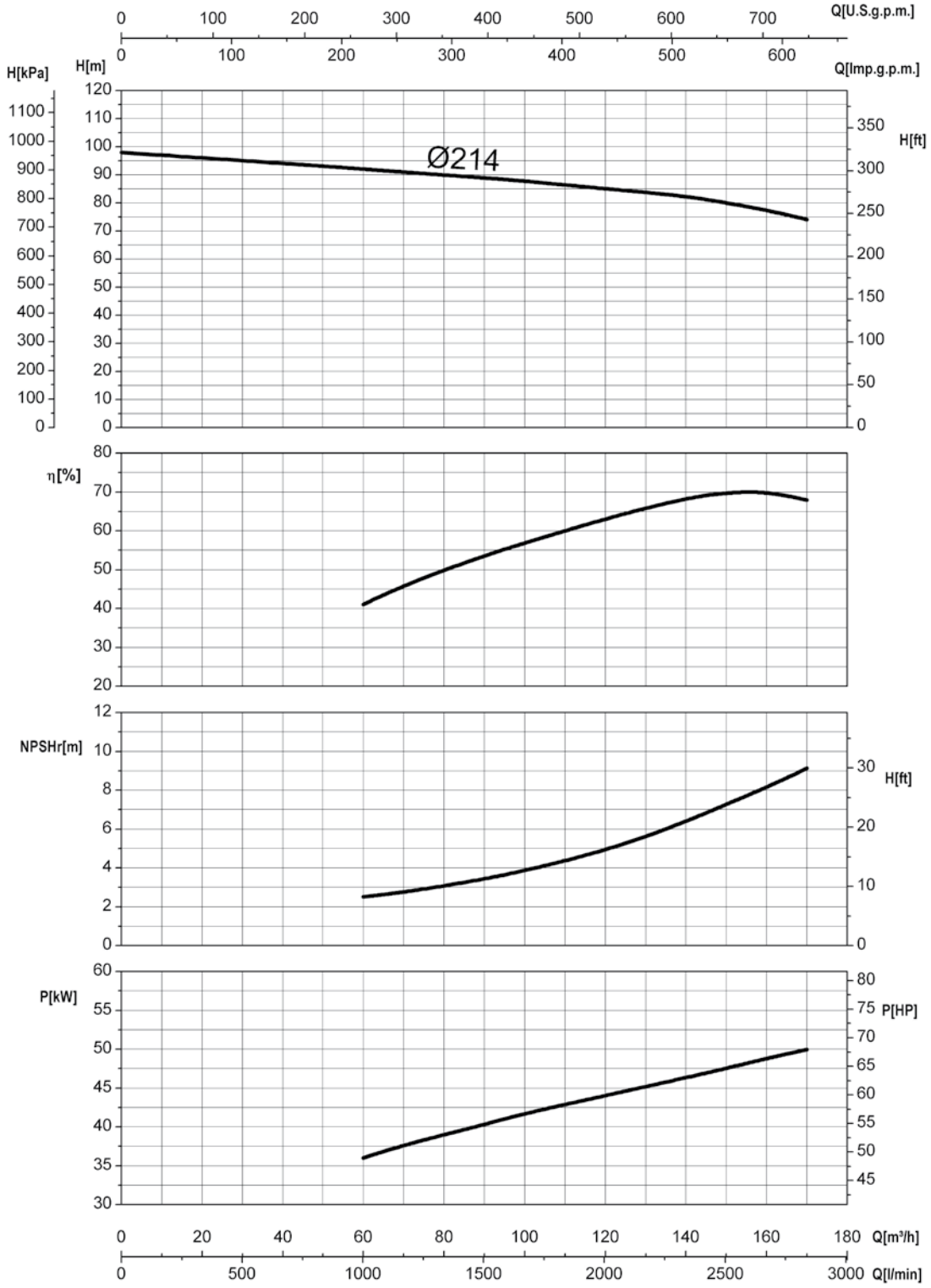


2950 RPM	65-100/2	65-100/3	65-100/4	65-100/5	65-100/6	65-100/7	65-100/8
TM	√	√	√	√	x	x	x
TMB	√	√	√	√	√	√	√
TMV	√	√	√	√	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

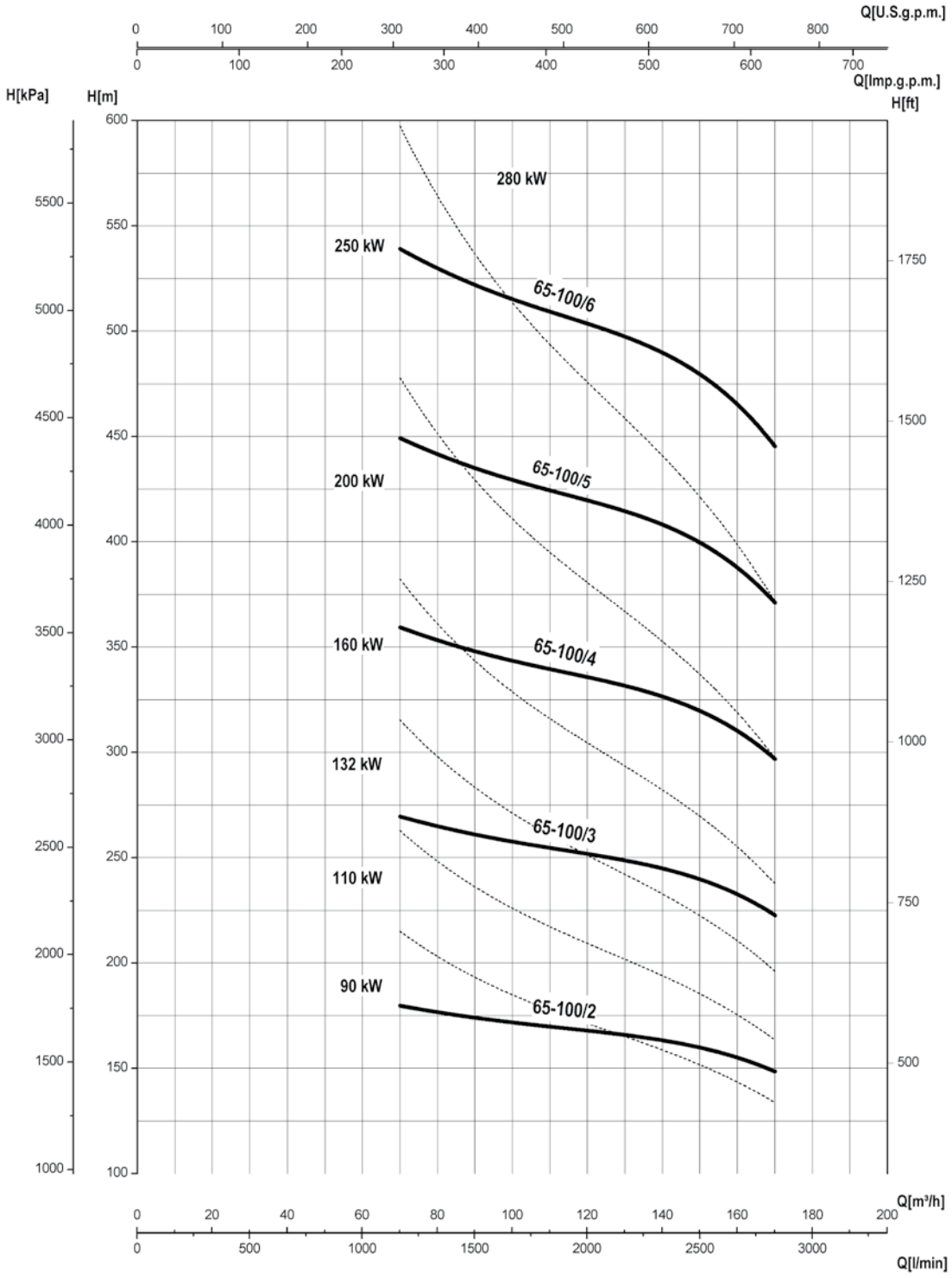
≈ 3550 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

65-100

≈ 3550 RPM

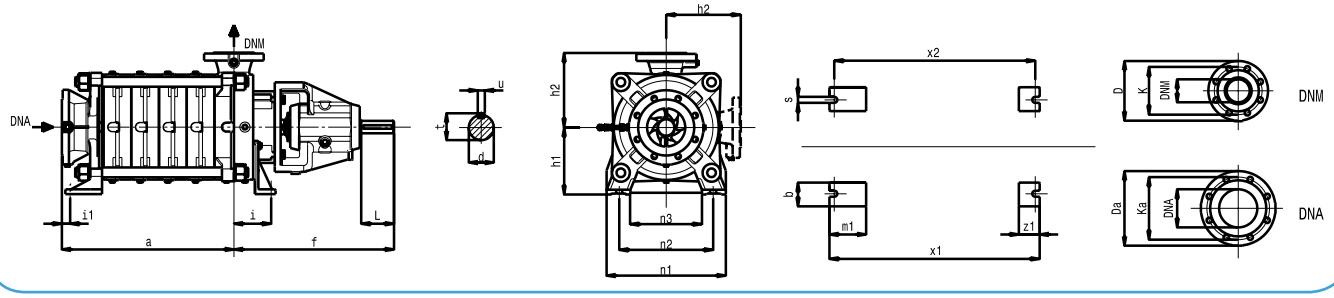


3550 RPM	65-100/2	65-100/3	65-100/4	65-100/5	65-100/6
TM	√	√	√	x	x
TMB	√	√	√	√	√
TMV	√	√	√	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

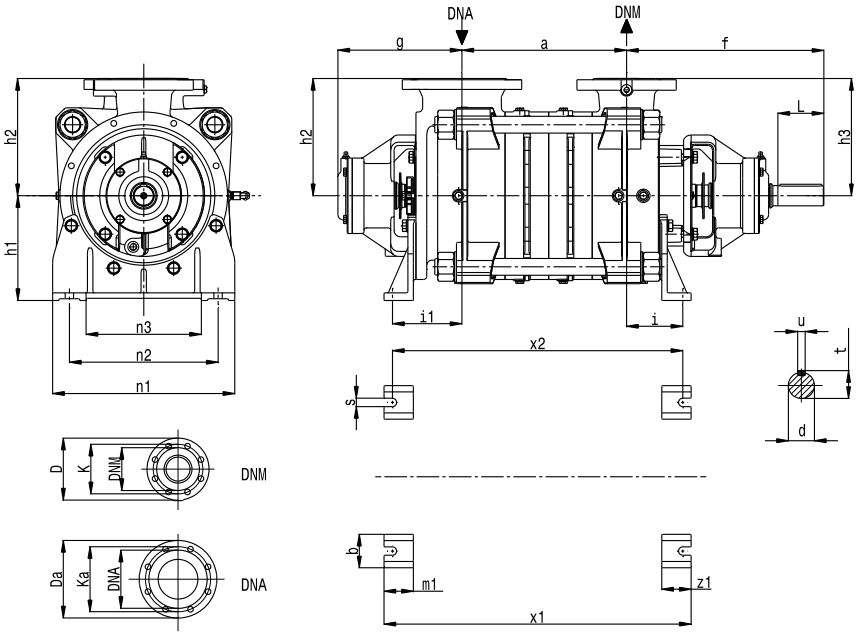
65-100 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u
TM65-100/2	100	65	273	487	376	342	324	250	190	200	225	80	70	17	67	54	123	80	38	41,3	10
TM65-100/3	100	65	363	487	466	432	324	250	190	200	225	80	70	17	67	54	123	80	38	41,3	10
TM65-100/4	100	65	453	487	556	522	324	250	190	200	225	80	70	17	67	54	123	80	38	41,3	10
TM65-100/5	100	65	543	487	646	612	324	250	190	200	225	80	70	17	67	54	123	80	38	41,3	10

TMB

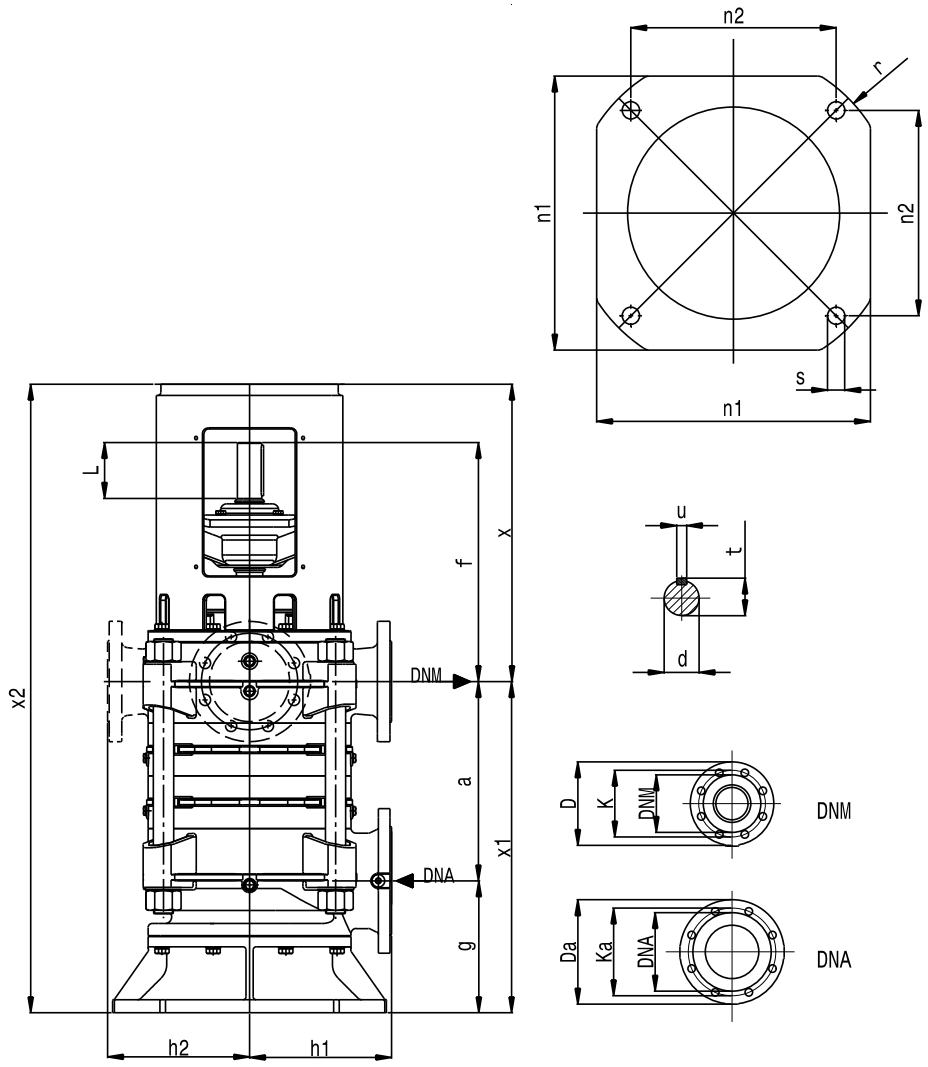


Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB65-100/2	100	65	228,5	263.5	395	519	488	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/3	100	65	318,5	263.5	395	609	578	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/4	100	65	408.5	263.5	395	699	668	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/5	100	65	498.5	263.5	395	789	758	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/6	100	65	588,5	263.5	395	879	848	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/7	100	65	678,5	263.5	395	969	938	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/8	100	65	768,5	263.5	395	1059	1028	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/9	100	65	858,5	263.5	395	1149	1118	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/10	100	65	948,5	263.5	395	1239	1208	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/11	100	65	1038,5	263.5	395	1329	1298	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10
TMB65-100/12	100	65	1128,5	263.5	395	1419	1388	320	250	190	200	225	225	70	70	17	65	136	123	80	38	41,3	10

DATI PROVVISORI - TEMPORARY DATA

65-100 DIMENSIONI
DIMENSIONS

TMV



Tipo Type	DNA	DNM	a	f	g	x 2 poli	x 4 poli	x1	x2 2 poli	x2 4 poli	n1	n2	h1	h2	r	s	L	d	t	u
TMV65-100/2	100	65	230	406	200	550	520	430	980	950	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/3	100	65	320	406	200	550	520	520	1070	1040	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/4	100	65	410	406	200	550	520	610	1160	1130	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/5	100	65	500	406	200	550	520	700	1250	1220	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/6	100	65	590	406	200	550	520	790	1340	1310	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/7	100	65	680	406	200	550	520	880	1430	1400	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/8	100	65	770	406	200	550	520	970	1520	1490	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/9	100	65	860	406	200	550	520	1060	1610	1580	400	305	225	225	250	28	80	38	41,3	10
TMV65-100/10	100	65	950	406	200	550	520	1150	1700	1670	400	305	225	225	250	28	80	38	41,3	10

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	220	180	100	19	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	185	145	65	18	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN63*	205	160	65	22	8

* Versioni PN63 - Versions PN63

80-125 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	176	220	264	308	352	396	440	484	528	572	638
	kW	HP		m³/h	0	40	50	60	70	80	90	100	110	120	130	145
				l/min	0	667	833	1000	1167	1333	1500	1667	1833	2000	2167	2417
Prevalenza totale in m. – Total head in m																
80-125/2	15	20	H [m]		40	38	37	36	35	33,5	32	30	28	25,5	22,5	17,5
80-125/3	18,5	25			60	57	55,5	54	52,5	50,5	48	45	42	38	34	26
80-125/4	30	40			80	76	74,5	72	70	67	64	60,5	56	51	45	35
80-125/5	37	50			100	95	93	90	87,5	84	80	75,5	70	63,5	56,5	43,5
80-125/6	37	50			120	114	111,5	108	105	101	96	90,5	84	76	68	52
80-125/7	45	60			140	133	130	126	122,5	117,5	112	105,5	98	89	79	61
80-125/8	55	75			160	152	149	144	140	134,5	128	121	112	102	90,5	69,5
80-125/9	75	100			189	180	176,5	171	166,5	160,5	153	145	135	123,5	111	87,5
80-125/10	75	100			210	200	196	190	185	178	170	161	150	137	123	97
NPSHr [m]					-	2,1	2,3	2,6	2,8	3,2	3,6	4,0	4,6	5,3	6,2	8,4

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	211	264	317	370	422	475	528	581	634	686	766
	kW	HP		m³/h	0	48	60	72	84	96	108	120	132	144	156	174
				l/min	0	800	1000	1200	1400	1600	1800	2000	2200	2400	2600	2900
	S.F.1.15		Prevalenza totale in m. – Total head in m													
80-125/2	22	30	H [m]		57,5	54,5	53,5	52	50,5	48	46	43	40,5	36,5	32,5	25
80-125/3	37	50			86,5	82	80	77,5	75,5	72,5	69	65	60,5	55	48,5	38
80-125/4	45	60			115	109,5	106,5	103,5	101	96,5	92	86,5	80,5	73,5	65	50,5
80-125/5	55	75			144	137	133,5	129,5	126	120,5	115,5	108	101	92	81	63
80-125/6	75	100			173	164	160	155,5	151,	144,5	138,5	129,5	121	110	97	75,5
80-125/7	75	100			201,5	191,5	186,5	181,5	176,5	168,5	161,5	151	141	128,5	113,5	88
NPSHr [m]					-	2,1	2,3	2,6	2,9	3,4	3,6	4	5,2	6,6	7,4	8,4

SERIE TM80:
Disponibile anche in versione TMS con flangia attacco SAE3 per motore diesel.
Available also in TMS version, with coupling flange according to SAE3 for diesel engine.

80-125 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

2950 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	440	528	616	704	792	880	968	1012
				m^3/h	0	100	120	140	160	180	200	220	230
	kW	HP		l/min	0	1667	2000	2333	2667	3000	3333	3667	3833
Prevalenza totale in m. – Total head in m													
80-125/2	110	150			161	152	150	144	138	130	120	110	95
80-125/3	160	220			242	228	225	216	207	197,5	187,5	175,5	168
80-125/4	200	270		H [m]	322,5	304	300	288	276	263,5	250	234	
80-125/5	250	340			403,5	380	375	360	345	329	312,5	292,5	
80-125/6R	315	430			484	456	450	432	414	395	375	351	336
80-125/7R	400	540			564,5	532	525	504	483	464	437,5	409,5	392
NPSHr [m]					-	3,3	3,7	4,1	4,3	4,9	5,8	6,6	7,2

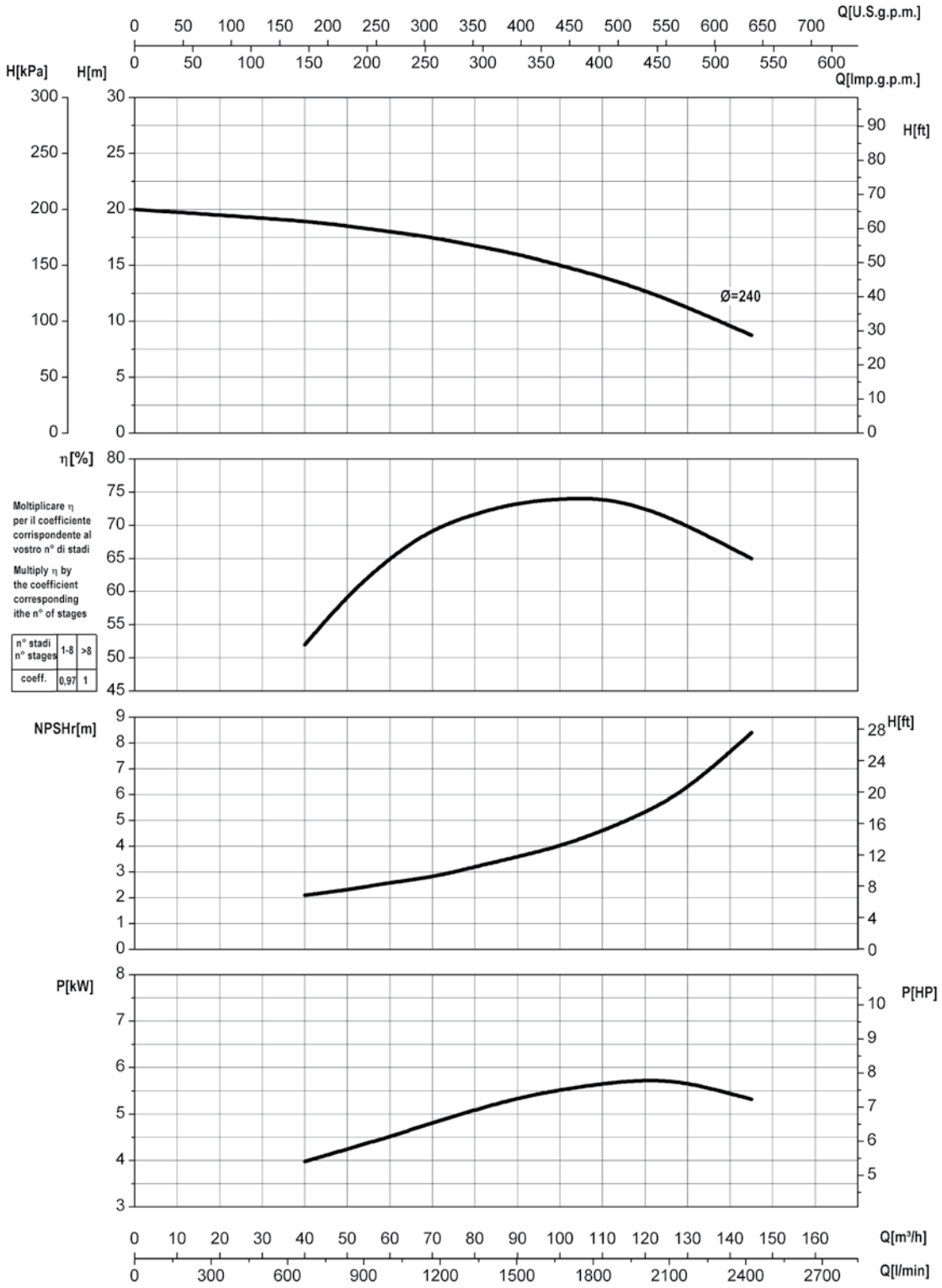
3550 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	528	634	740	845	950	1056	1162	1214
				m^3/h	0	120	144	168	192	216	240	264	276
	kW	HP		l/min	0	2000	2400	2800	3200	3600	4000	4400	4600
	S.F.1.15		Prevalenza totale in m. – Total head in m										
80-125/2	160	220			232	219	216	207,5	199	187	173	158,5	137
80-125/3	280	380			348,5	328,5	324	311	298	284,5	270	253	242
80-125/4R	355	510		H [m]	464,5	438	432	414,5	397,5	379	360	337	322,5
80-125/5R	450	610			580,5	547	540	518,5	497	474	450	421	403
NPSHr [m]					-	3,3	3,7	4,1	4,3	4,9	5,8	6,6	7,2

SERIE TM80:
Disponibile anche in versione TMS con flangia attacco SAE3 per motore diesel.
Available also in TMS version, with coupling flange according to SAE3 for diesel engine.

80-125

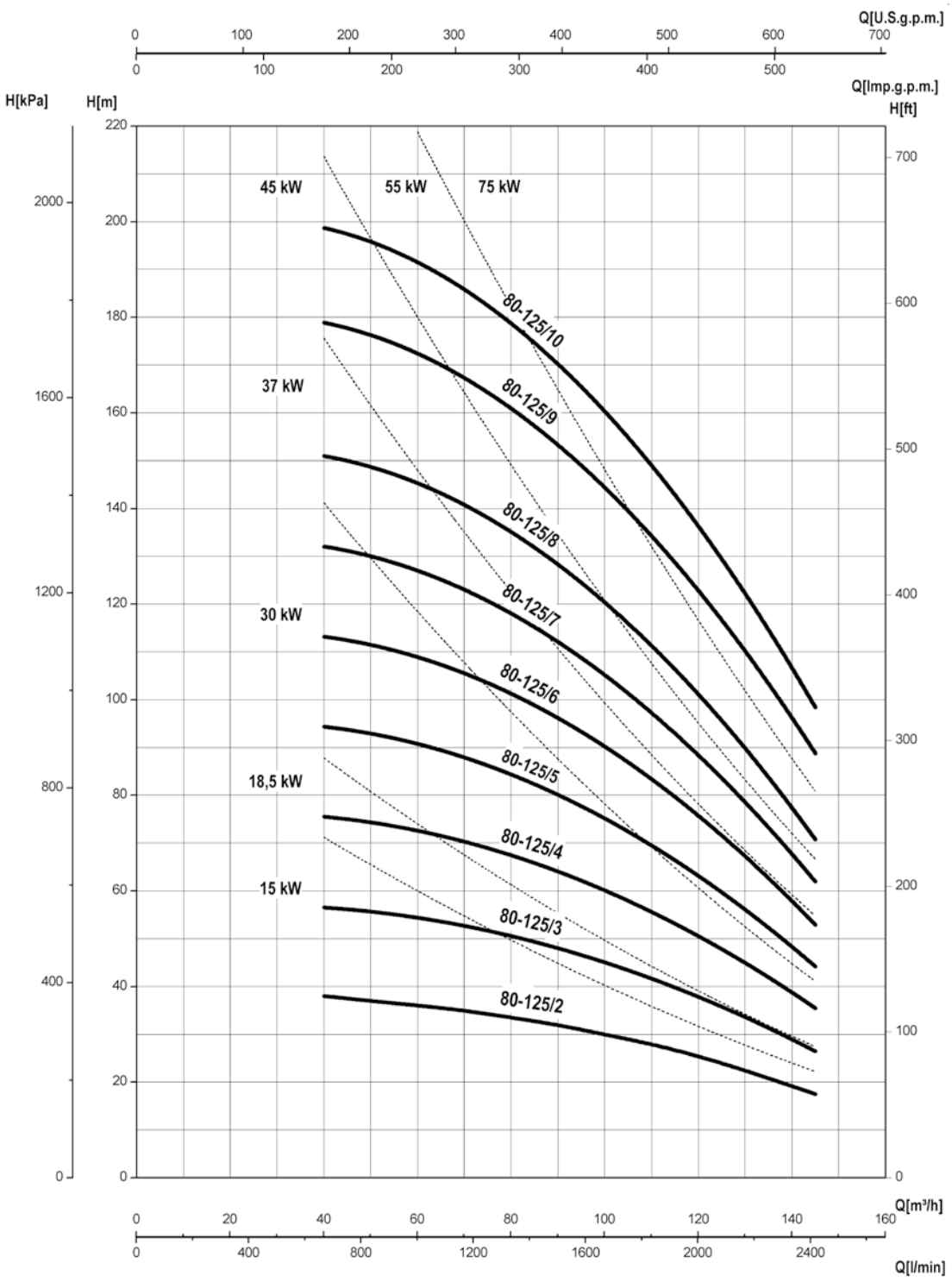
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

≈ 1450 RPM

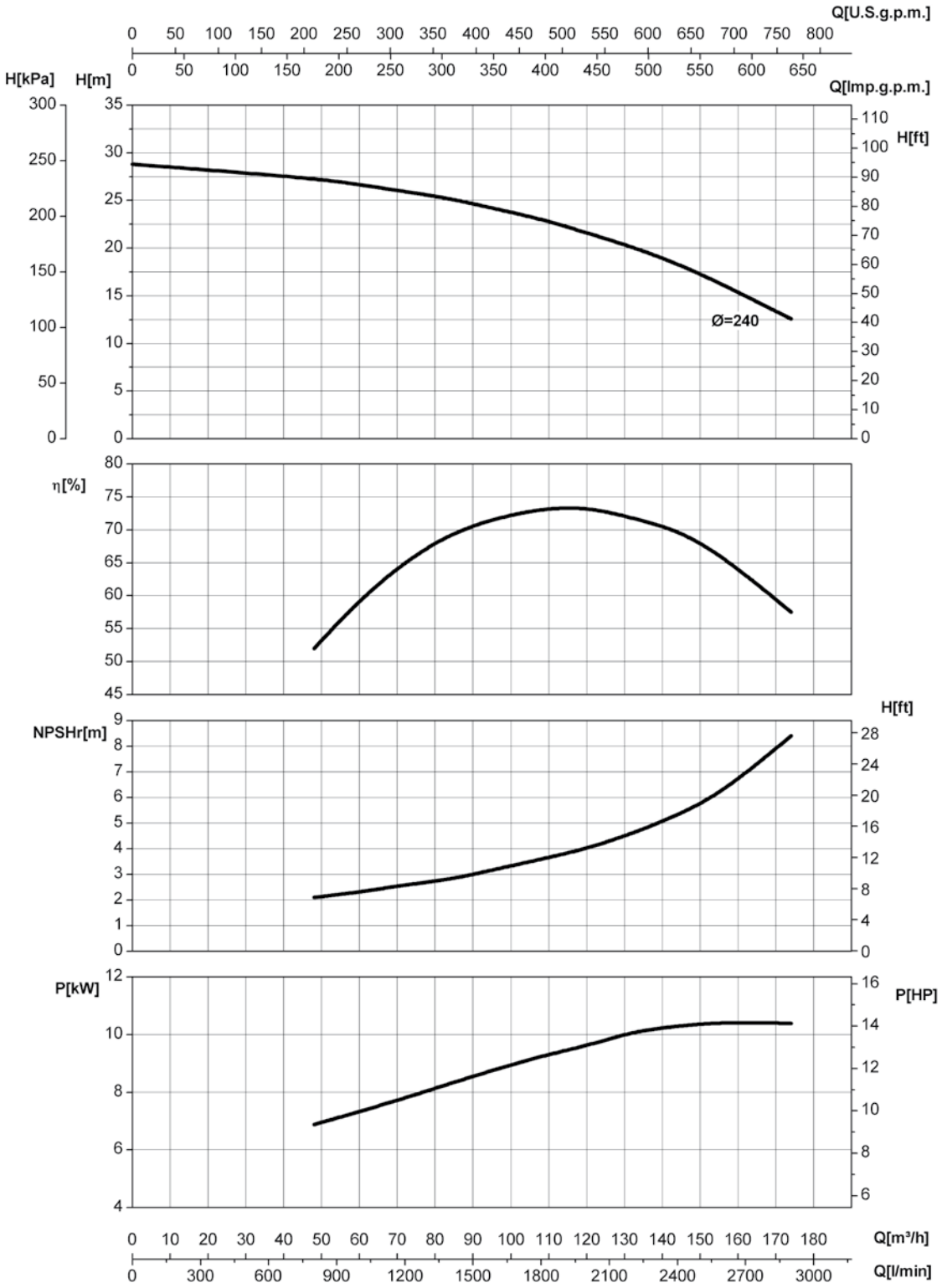


1450 RPM	80-125/2	80-125/3	80-125/4	80-125/5	80-125/6	80-125/7	80-125/8	80-125/9	80-125/10
TM	√	√	√	√	√	√	√	√	√
TMB	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	√	√	√

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

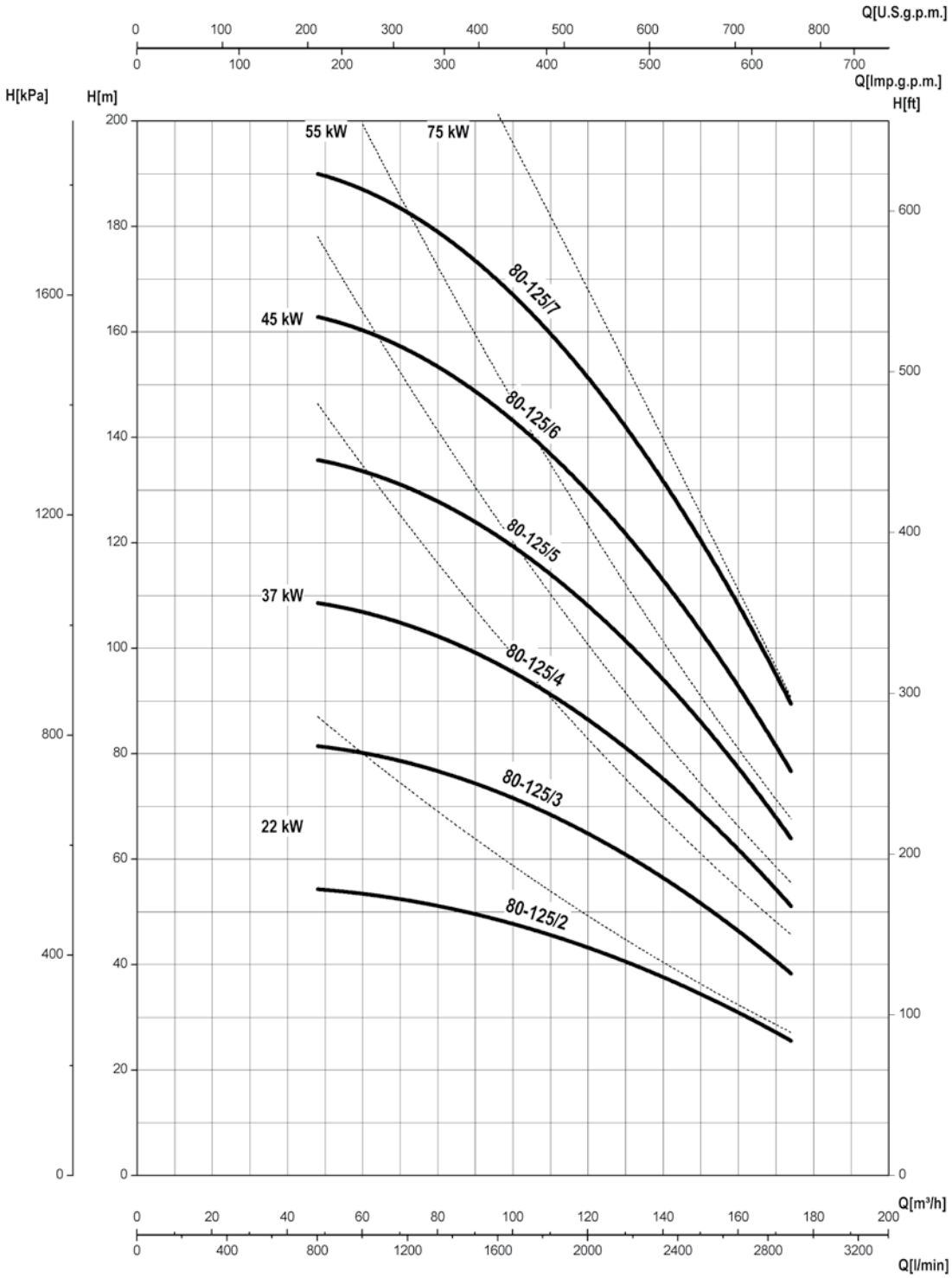
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

≈ 1750 RPM

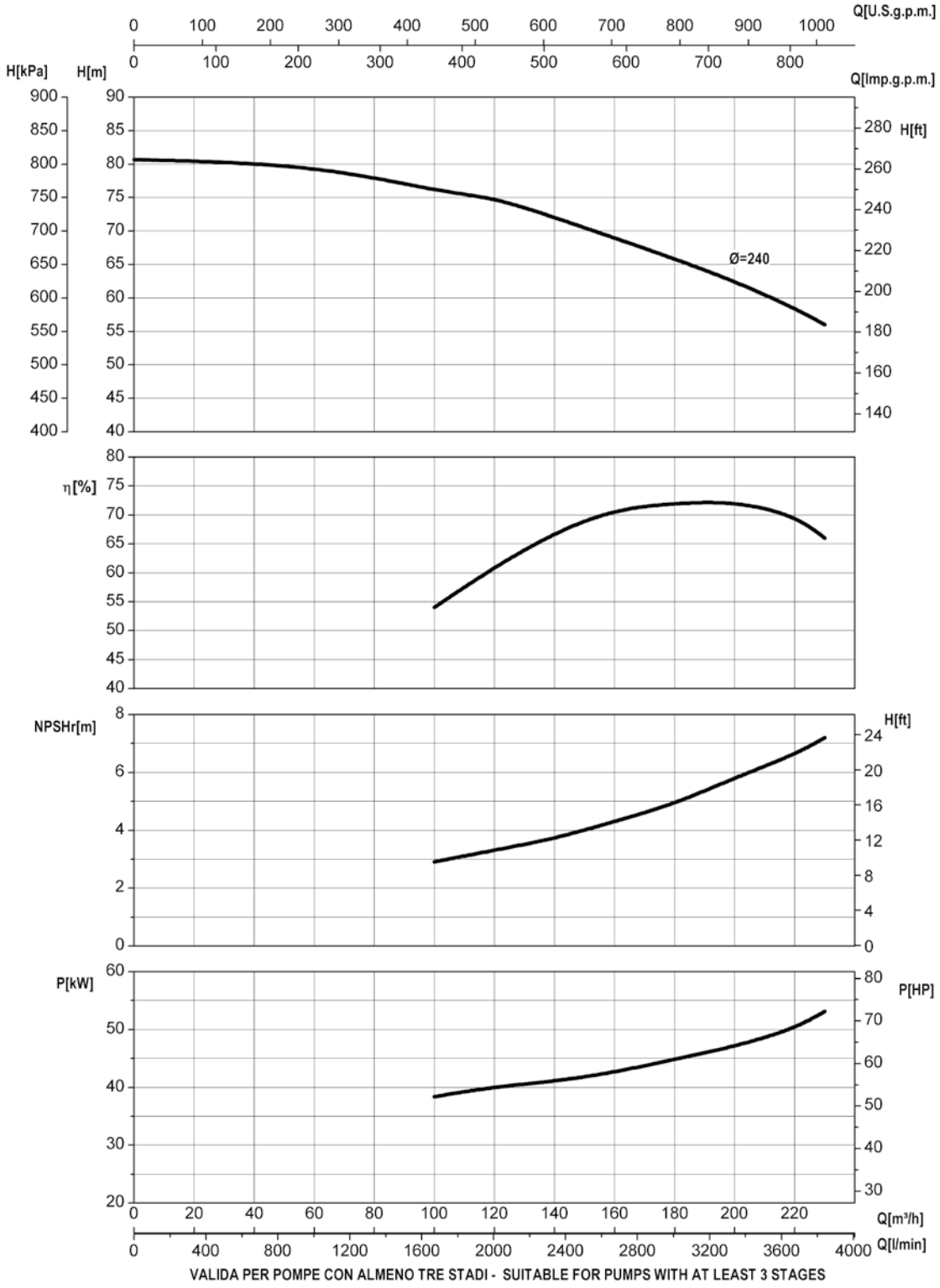


1750 RPM	80-125/2	80-125/3	80-125/4	80-125/5	80-125/6	80-125/7
TM	√	√	√	√	√	√
TMB	√	√	√	√	√	√
TMV	√	√	√	√	√	√

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

≈ 2950 RPM

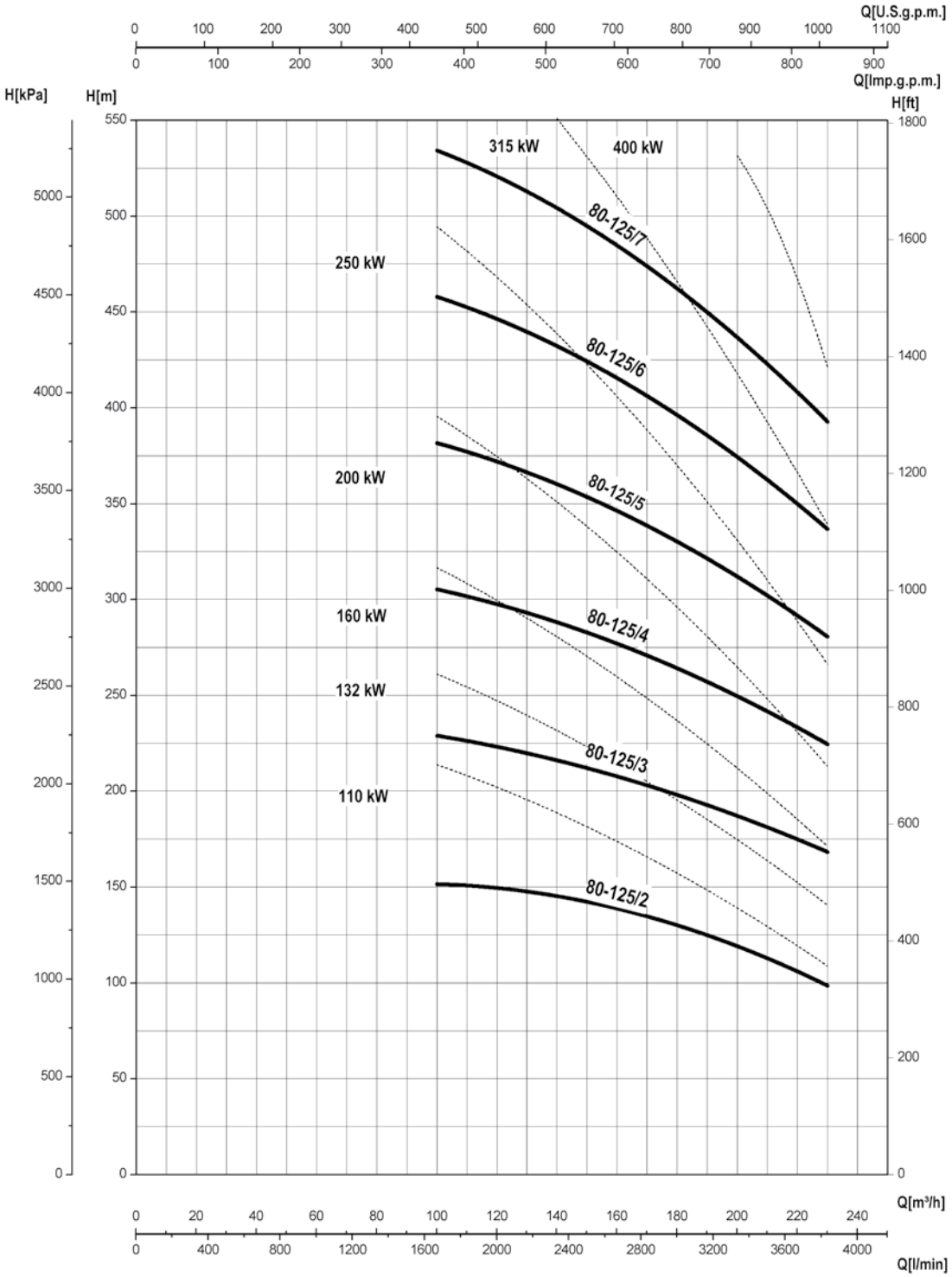


VALIDA PER POMPE CON ALMENO TRE STADI - SUITABLE FOR PUMPS WITH AT LEAST 3 STAGES

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

≈ 2950 RPM

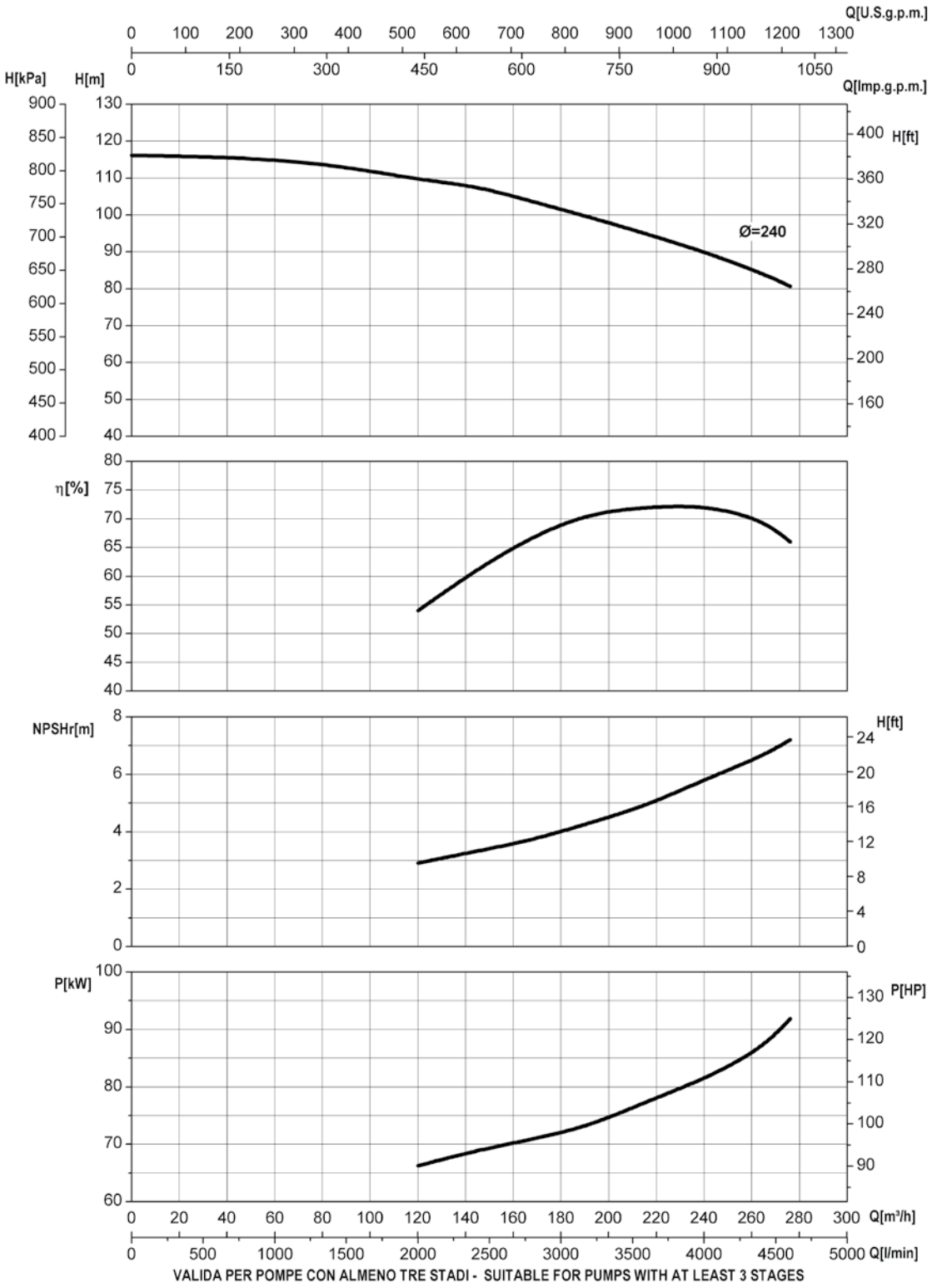


2950 RPM	80-125/2	80-125/3	80-125/4	80-125/5	80-125/6	80-125/7
TM	√	√	√	√	x	x
TMB	√	√	√	√	√	√
TMV	√	√	√	√	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

≈ 3550 RPM

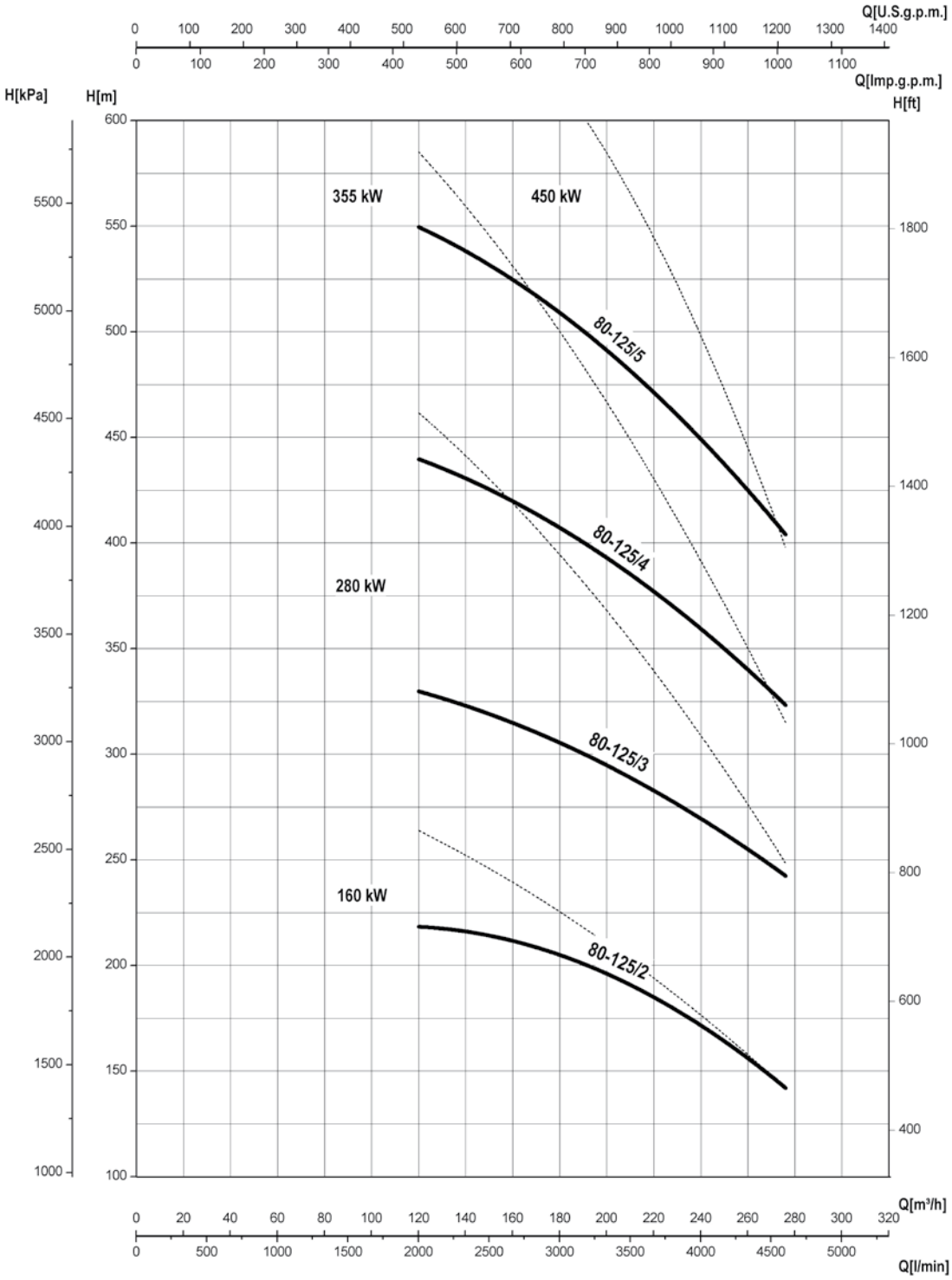


VALIDA PER POMPE CON ALMENO TRE STADI - SUITABLE FOR PUMPS WITH AT LEAST 3 STAGES

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

80-125

≈ 3550 RPM

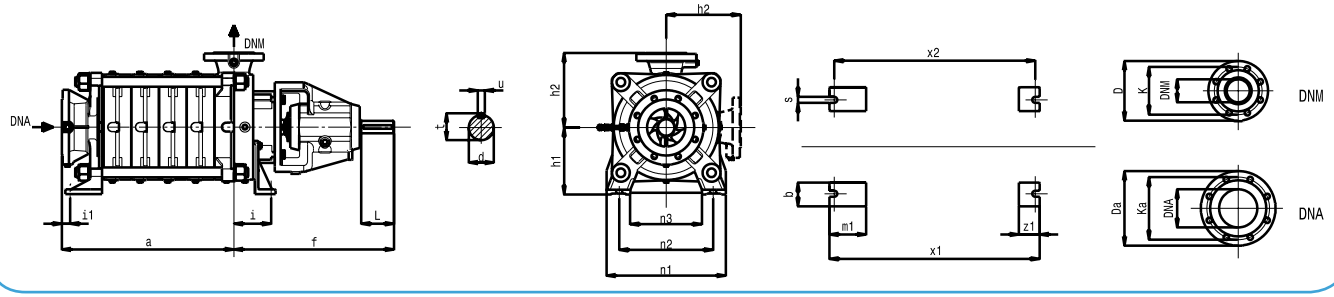


3550 RPM	80-125/2	80-125/3	80-125/4	80-125/5
TM	√	√	x	x
TMB	√	√	√	√
TMV	√	√	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

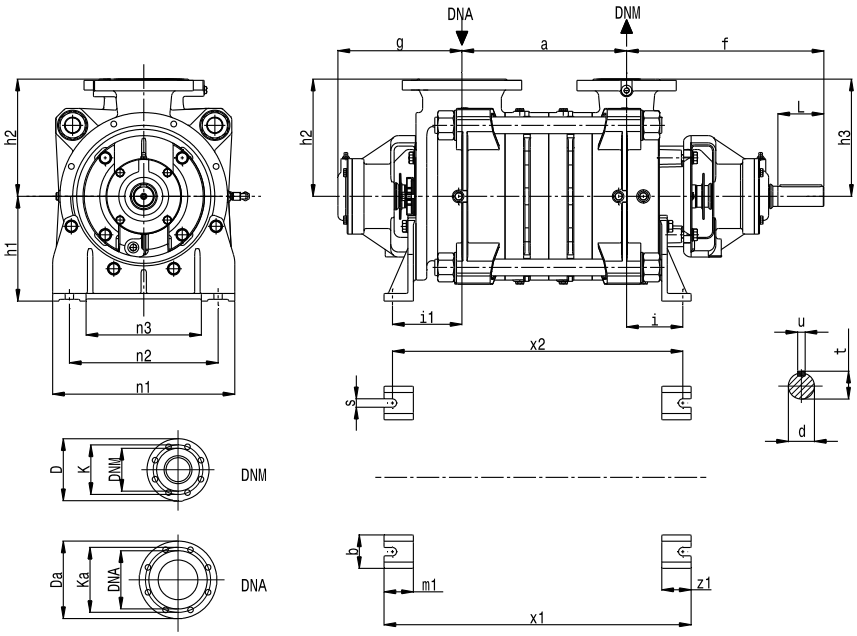
80-125 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u	Kg
TM80-125/2	125	80	298	537	426	397	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	178
TM80-125/3	125	80	391	537	519	490	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	210
TM80-125/4	125	80	484	537	612	581	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	242
TM80-125/5	125	80	577	537	705	674	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	274
TM80-125/6	125	80	670	537	798	767	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	306
TM80-125/7	125	80	763	537	891	860	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	338
TM80-125/8	125	80	856	537	984	953	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	370
TM80-125/9	125	80	949	537	1077	1046	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	402
TM80-125/10	125	80	1042	537	1170	1139	400	315	241	225	250	123	70	20	80	28	125	110	42	45,3	12	434

TMB

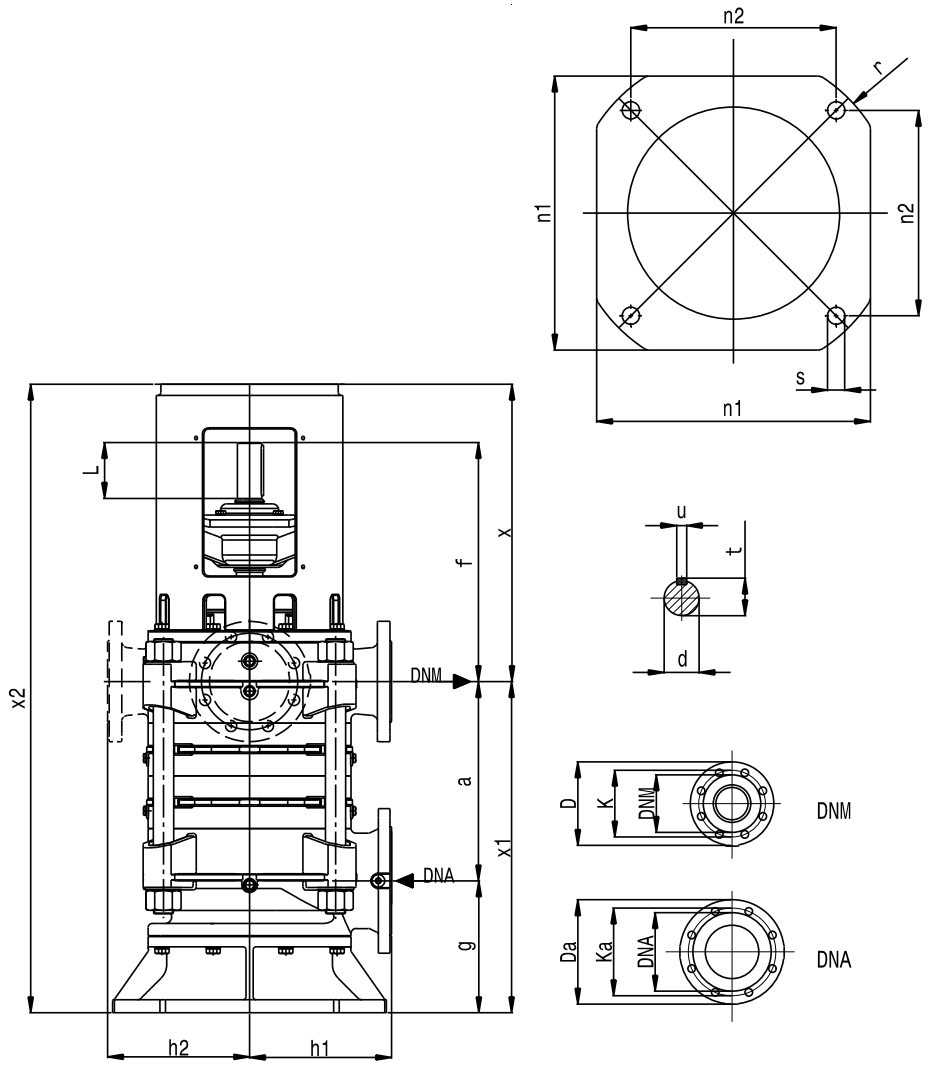


Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB80-125/2	125	80	238	272	462	538	509	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/3	125	80	331	272	462	631	602	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/4	125	80	424	272	462	724	695	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/5	125	80	517	272	462	817	788	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/6	125	80	610	272	462	910	881	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/7	125	80	703	272	462	1003	974	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/8	125	80	796	272	462	1096	1067	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/9	125	80	889	272	462	1189	1160	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12
TMB80-125/10	125	80	982	272	462	1282	1253	400	315	240	225	250	250	70	70	20	80	145	125	110	42	45,3	12

DATI PROVVISORI - TEMPORARY DATA

80-125 DIMENSIONI
DIMENSIONS

TMV



Tipo Type	DNA	DNM	a	f	g	x 2 poli	x 4 poli	x1	x2 2 poli	x2 4 poli	n1	n2	h1	h2	r	s	L	d	t	u
TMV80-125/2	125	80	238	462	235	605	605	473	1078	1078	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/3	125	80	331	462	235	605	605	566	1171	1171	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/4	125	80	424	462	235	605	605	659	1264	1264	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/5	125	80	517	462	235	605	605	752	1357	1357	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/6	125	80	610	462	235	605	605	845	1450	1450	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/7	125	80	703	462	235	605	605	938	1543	1543	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/8	125	80	796	462	235	605	605	1031	1636	1636	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/9	125	80	889	462	235	605	605	1124	1729	1729	480	353,5	250	250	275	26	110	42	45,3	12
TMV80-125/10	125	80	982	462	235	605	605	1217	1822	1822	480	353,5	250	250	275	26	110	42	45,3	12

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	250	210	125	19	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	160	160	80	19	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN63*	170	170	80	23	8

* Versioni PN63 - Versions PN63

100-150 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	264	352	440	528	616	660	704	792	837	880	925
				m³/h	0	60	80	100	120	140	150	160	180	190	200	210
	kW	HP		l/min	0	1000	1333	1667	2000	2333	2500	2667	3000	3167	3333	3500
	Prevalenza totale in m. – Total head in m															
100-150/2	30	40			56	52	51	50	48	47	46	45	42	40	38	36
100-150/3	45	60			84	78	76,5	75	72	70,5	69	67,5	63	60	57	54
100-150/4	55	75			112	104	102	100	96	94	92	90	84	80		
100-150/5	75	100			140	130	127,5	125	120	117,5	115	112,5	105	100	95	90
100-150/6	90	125		H [m]	168	156	153	150	144	141	138	135	126	120	114	108
100-150/7	110	150			196	182	178,5	175	168	164,5	161	157,5	147	140	133	126
100-150/8	132	180			224	208	204	200	192	188	184	180	168	160	152	144
100-150/9	132	180			252	234	229,5	225	216	211,5	207	202,5	189	180	171	
100-150/10	160	220			280	260	255	250	240	235	230	225	210	200	190	180
NPSHr [m]					-	1,5	1,6	1,9	2	2,6	3	3,3	4,5	5,2	6,1	7,8

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	440	528	616	660	704	749	792	837	880	925	969
				m³/h	0	100	120	140	150	160	170	180	190	200	210	220
	kW	HP		l/min	0	1667	2000	2333	2500	2667	2833	3000	3167	3333	3500	3667
	S.F.1.15			Prevalenza totale in m. – Total head in m												
100-150/2	45	60			80	74	72	70	69	68	67	66	64	62	60	58
100-150/3	75	100			120	111	108	105	103,5	102	100,5	99	96	93	90	87
100-150/4	90	125			160	148	144	140	138	136	134	132	128	124	120	116
100-150/5	110	150			200	185	180	175	172,5	170	167,5	165	160	155	150	
100-150/6	132	180		H [m]	240	222	216	210	207	204	201	198	192	186	180	
100-150/7	160	220			280	259	252	245	241,5	238	234,5	231	224	217	210	203
100-150/8	200	270			320	296	288	280	276	272	268	264	256	248	240	232
100-150/9	200	270			360	333	324	315	310,5	306	301,5	297	288	279	270	
100-150/10	250	340			400	370	360	350	345	340	335	330	320	310	300	290
NPSHr [m]					-	1,9	2,1	2,5	2,9	3,1	3,7	4	4,5	5	5,3	6,3

SERIE TM100:
Disponibile anche in versione TMS con flangia attacco SAE3 per motore diesel.
Available also in TMS version, with coupling flange according to SAE3 for diesel engine.

100-150 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

2950 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	704	792	880	968	1057	1145	1233	1321	1365
	kW	HP		m³/h	0	160	180	200	220	240	260	280	300	310
				l/min	0	2667	3000	3333	3667	4000	4333	4667	5000	5167
Prevalenza totale in m. – Total head in m														
100-150/2	200	270	H [m]		214	204	201	198	194	190	184	174	155	140
100-150/3	280	380			321	306	301,5	297	291	285	276	261	232,5	210
100-150/4	375	510			428	408	402	396	388	380	368	348	310	280
100-150/5R	500	680			535	510	502,5	495	485	475	460	435	387,5	350
100-150/6R	560	760			642	612	603	594	582	570	552	522	465	420
NPSHr [m]					-	4	4,3	4,8	5,2	5,6	6,2	6,8	7,3	7,8

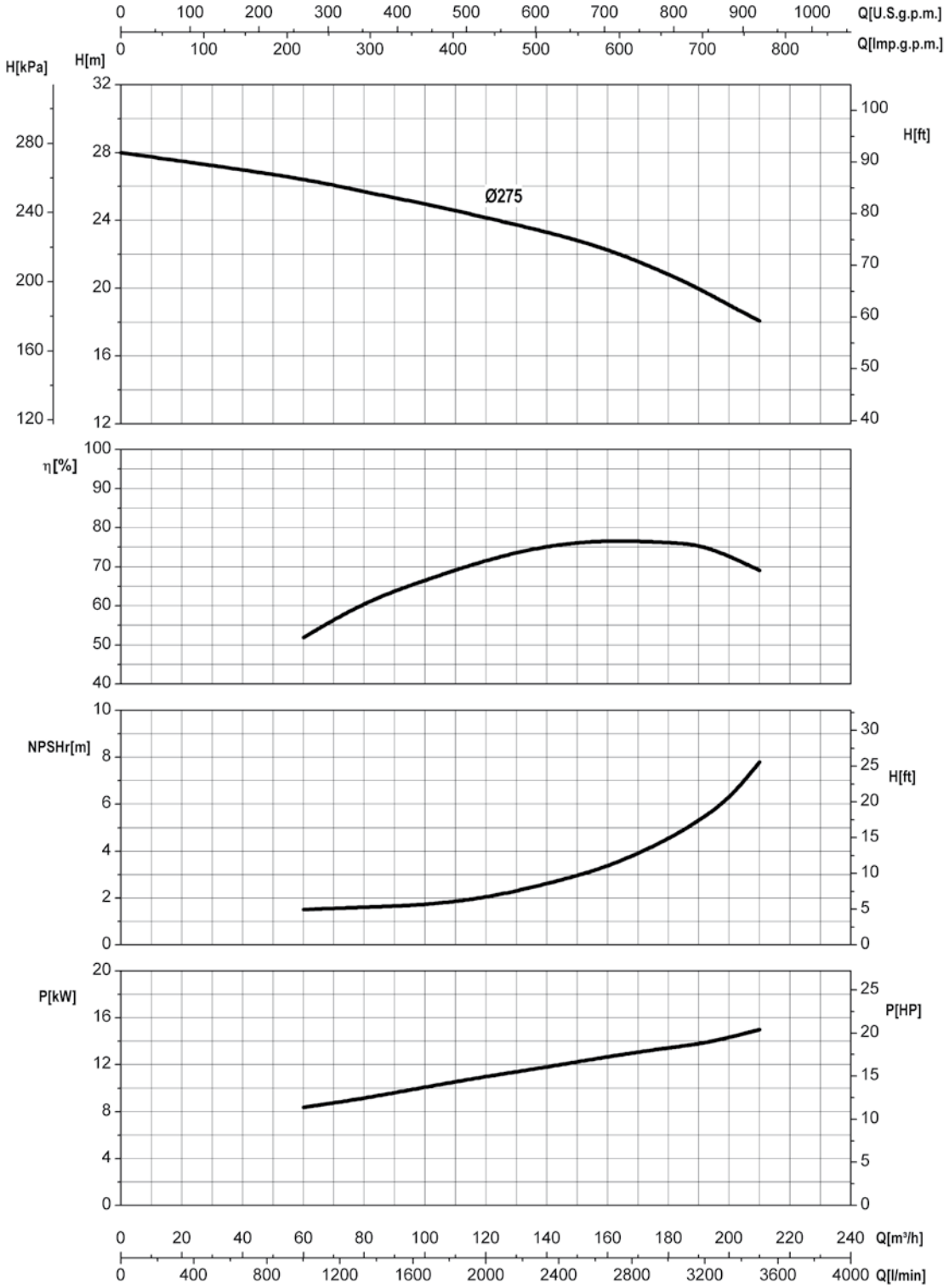
3550 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	704	792	880	968	1057	1145	1233	1321
	kW	HP		m³/h	0	160	180	200	220	240	260	280	300
				l/min	0	2667	3000	3333	3667	4000	4333	4667	5000
	S.F.1.15		Prevalenza totale in m. – Total head in m										
100-150/2	315	430	H [m]		304	294	292	290	286	285	278	272	268
100-150/3R	450	610			456	441	438	435	429	423	417	408	
100-150/4R	630	855			608	588	584	580	572	564	556	544	536
NPSHr [m]					-	4,5	4,9	5,2	5,6	6,1	6,6	7,2	7,8

SERIE TM100:
Disponibile anche in versione TMS con flangia attacco SAE3 per motore diesel.
Available also in TMS version, with coupling flange according to SAE3 for diesel engine.

100-150

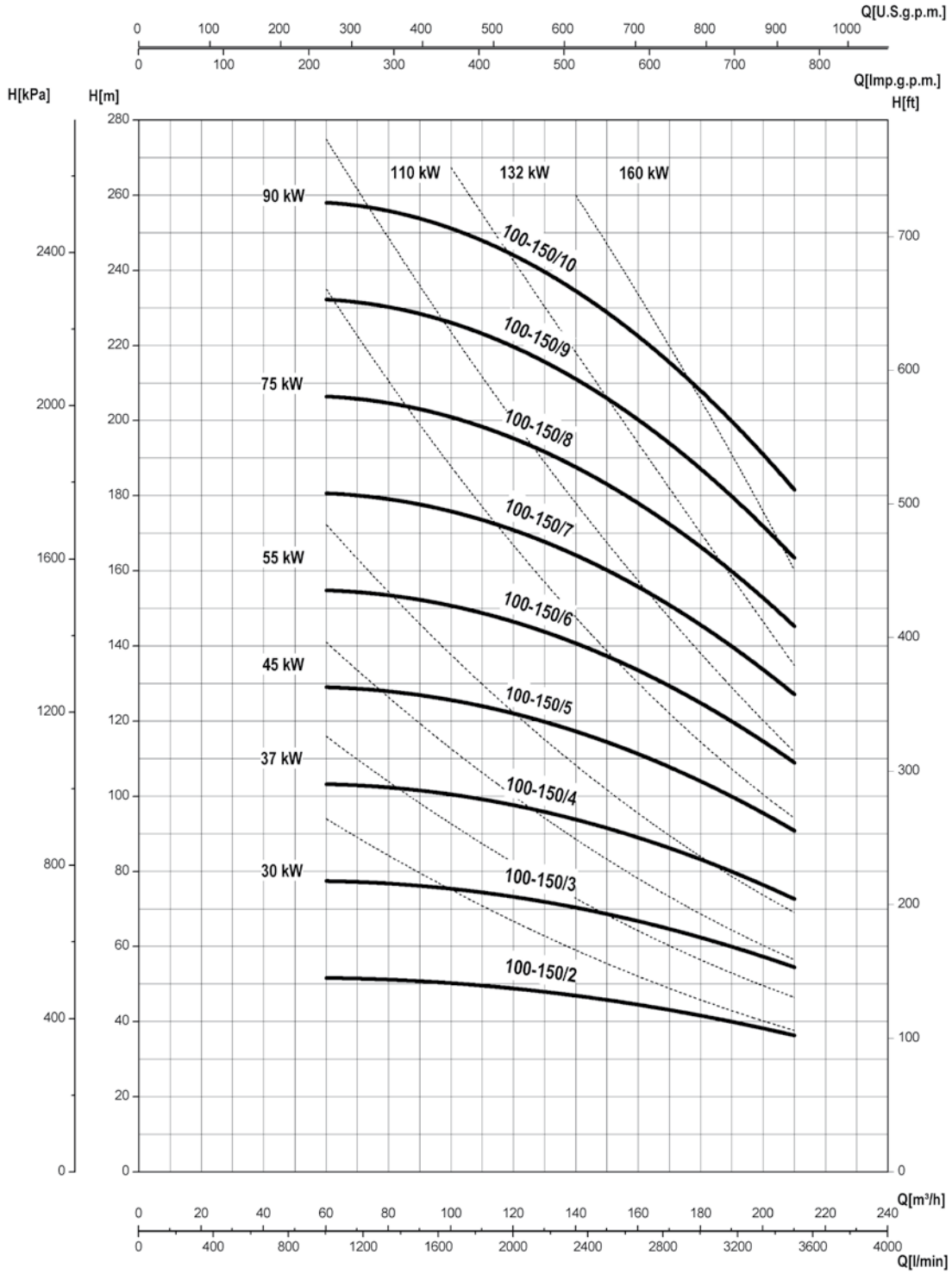
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

≈ 1450 RPM

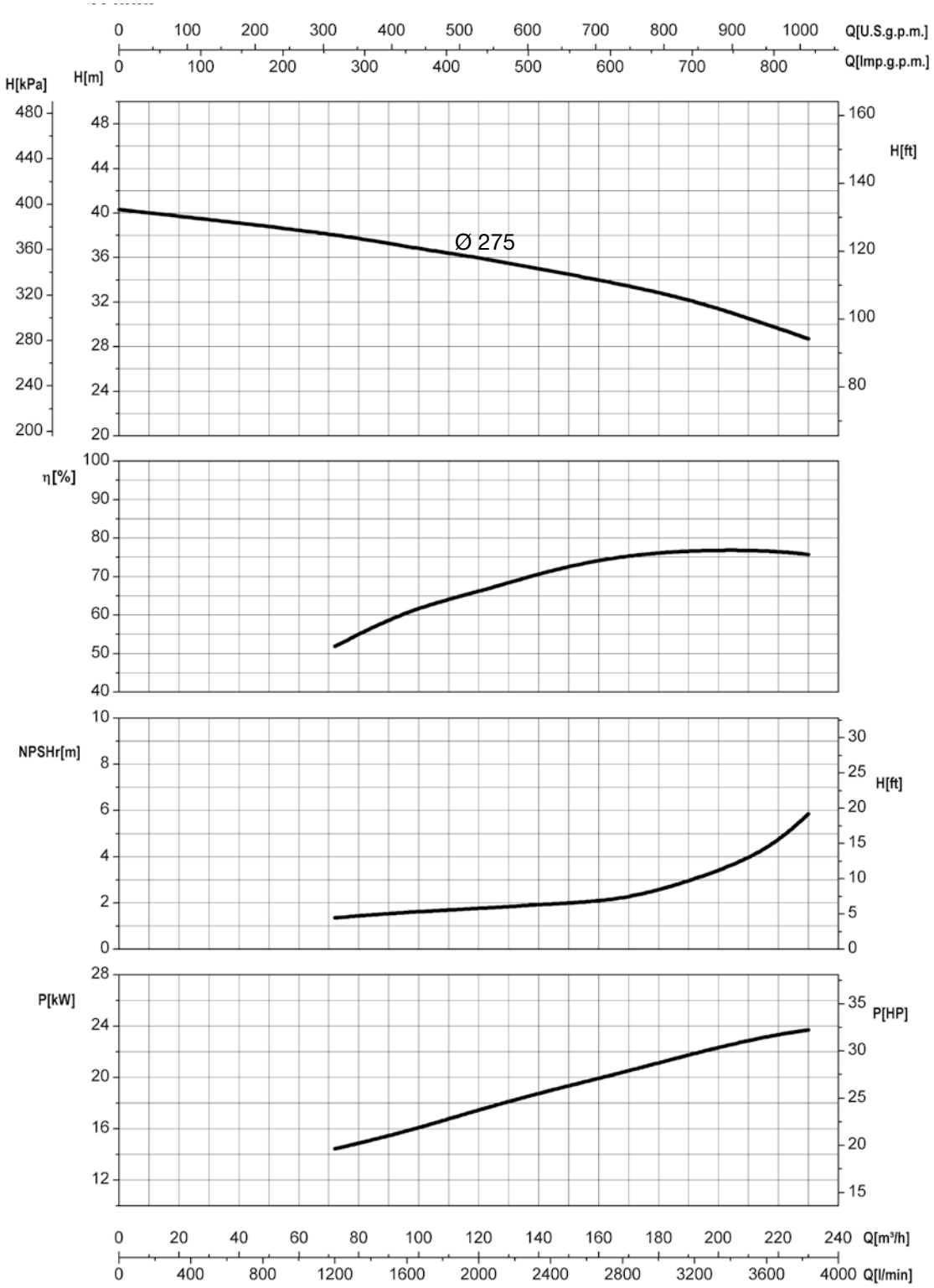


1450 RPM	100-150/2	100-150/3	100-150/4	100-150/5	100-150/6	100-150/7	100-150/8	100-150/9	100-150/10
TM	√	√	√	√	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

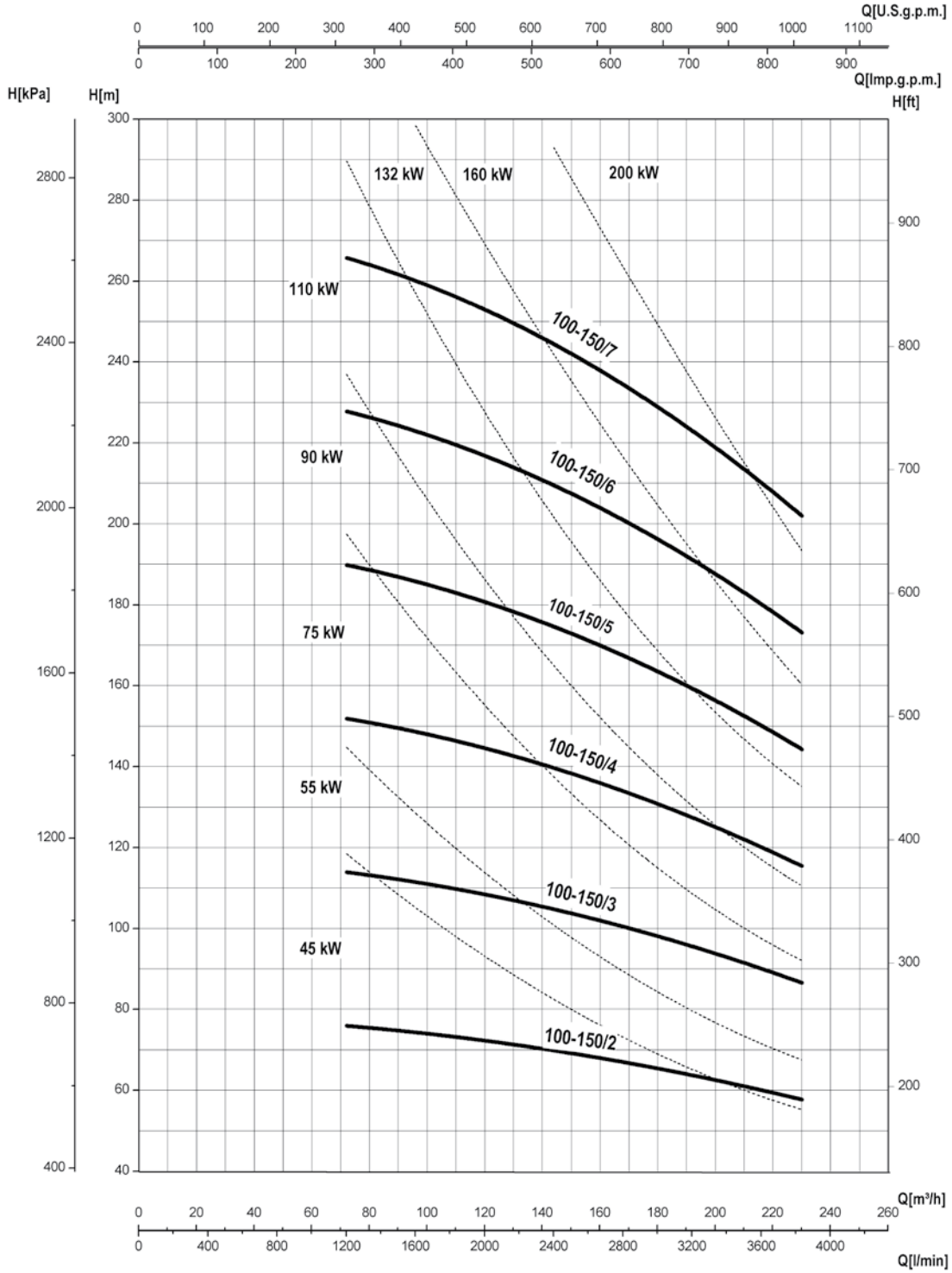
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

≈ 1750 RPM

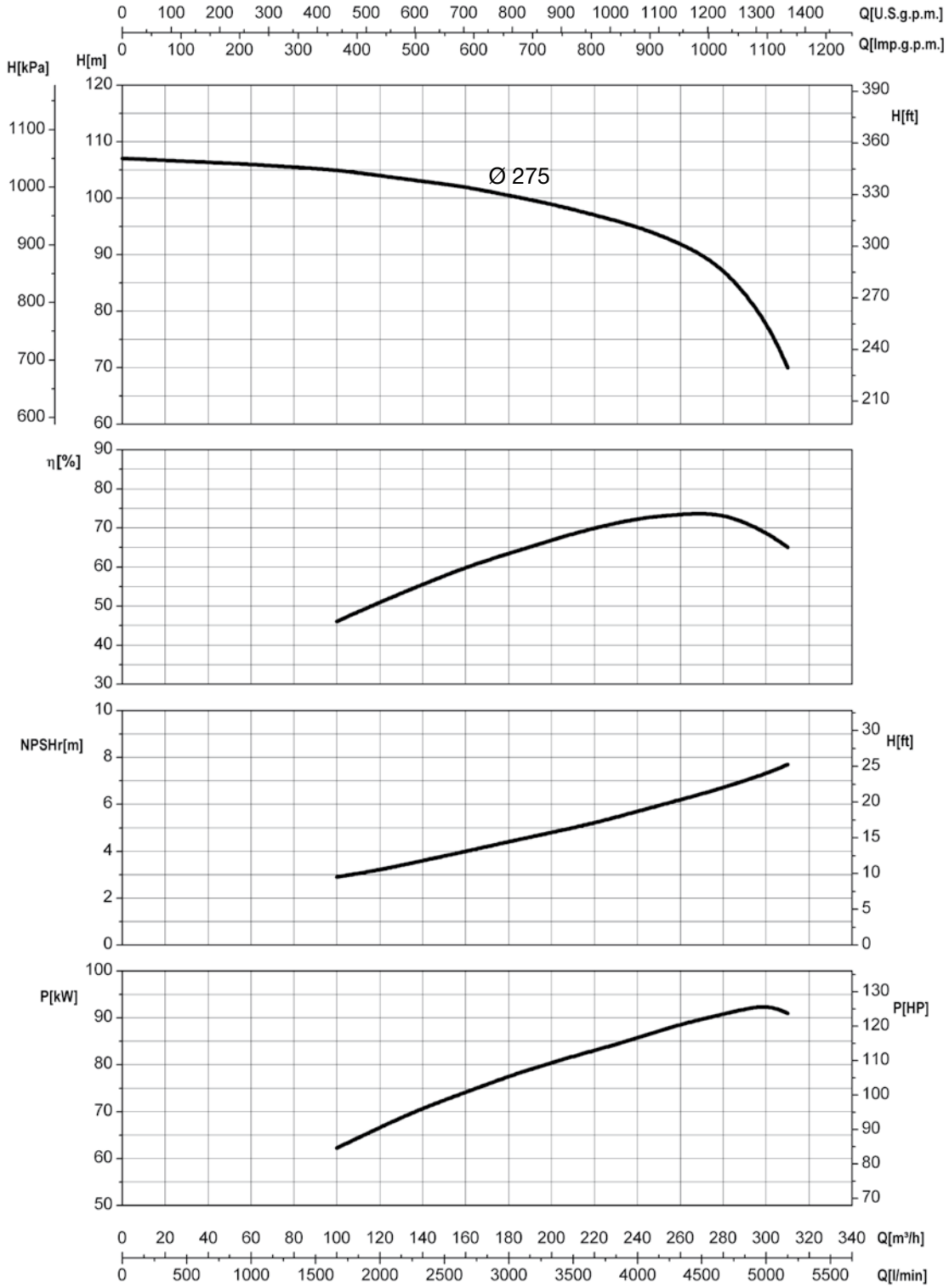


1750 RPM	100-150/2	100-150/3	100-150/4	100-150/5	100-150/6	100-150/7	100-150/8	100-150/9	100-150/10
TM	√	√	√	√	x	x	x	x	x
TMB	√	√	√	√	√	√	√	√	√
TMV	√	√	√	√	√	√	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

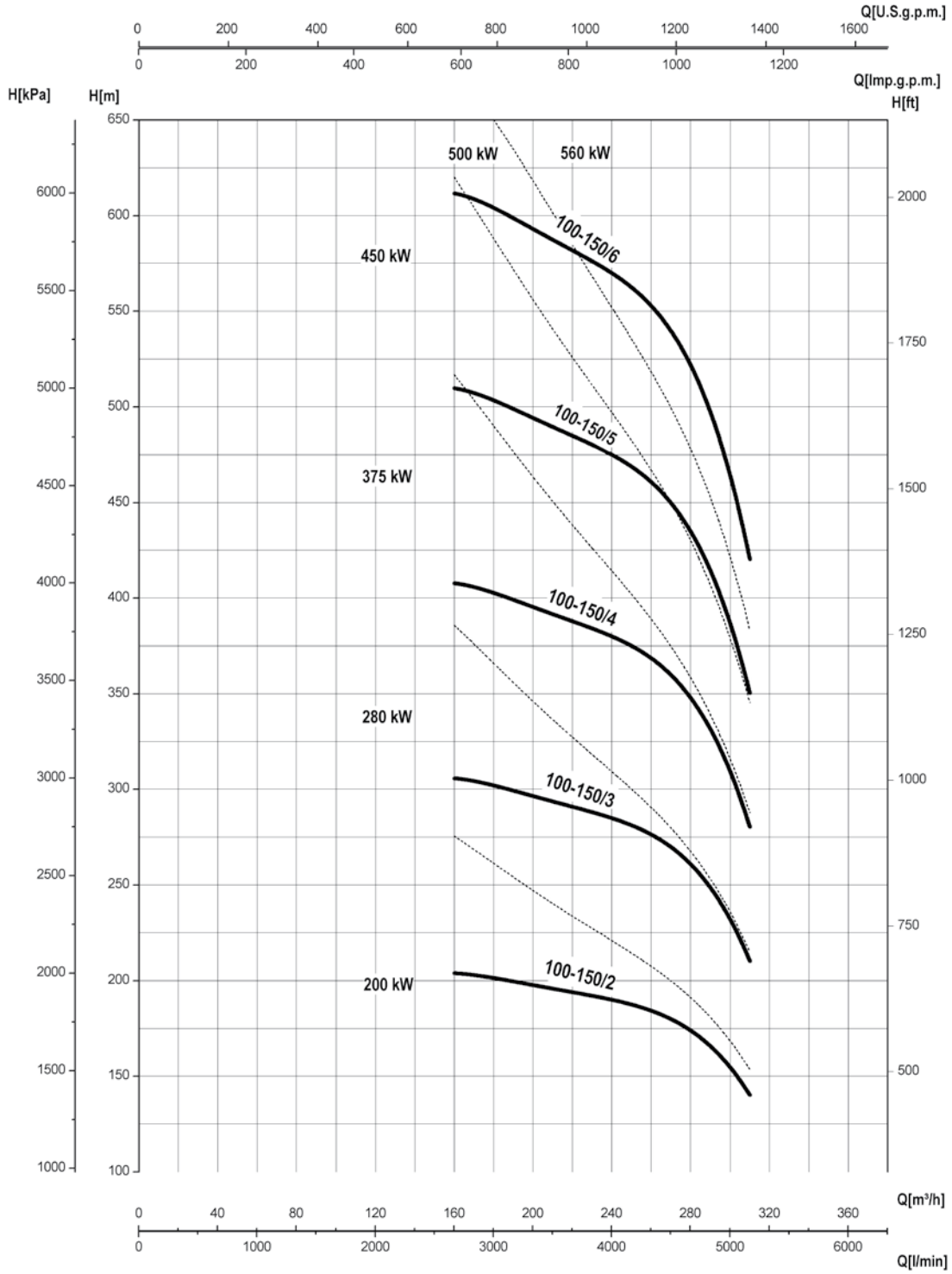
≈ 2950 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

≈ 2950 RPM

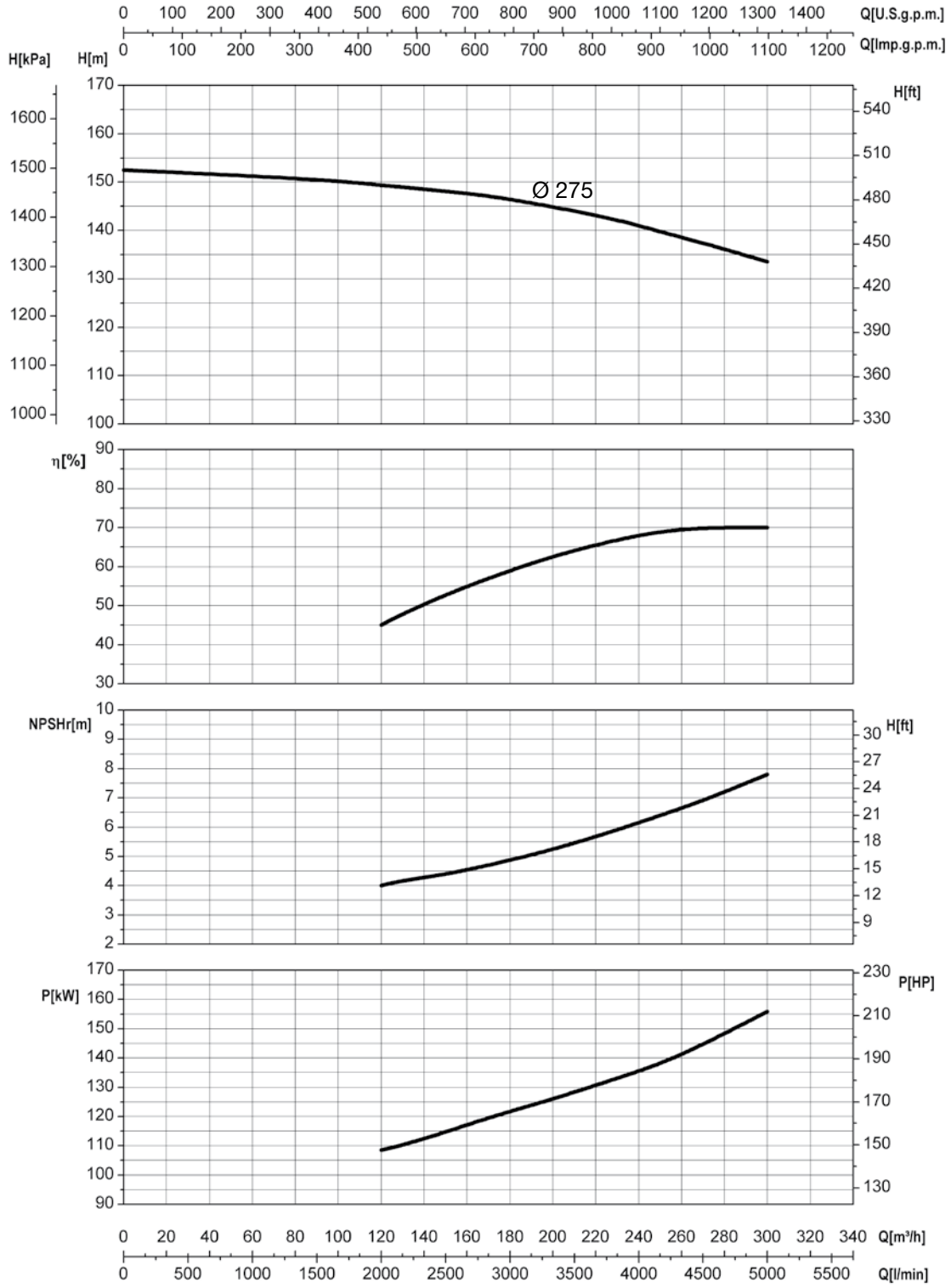


2950 RPM	100-150/2	100-150/3	100-150/4	100-150/5	100-150/6
TM	√	√	√	x	x
TMB	√	√	√	√	√
TMV	√		x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

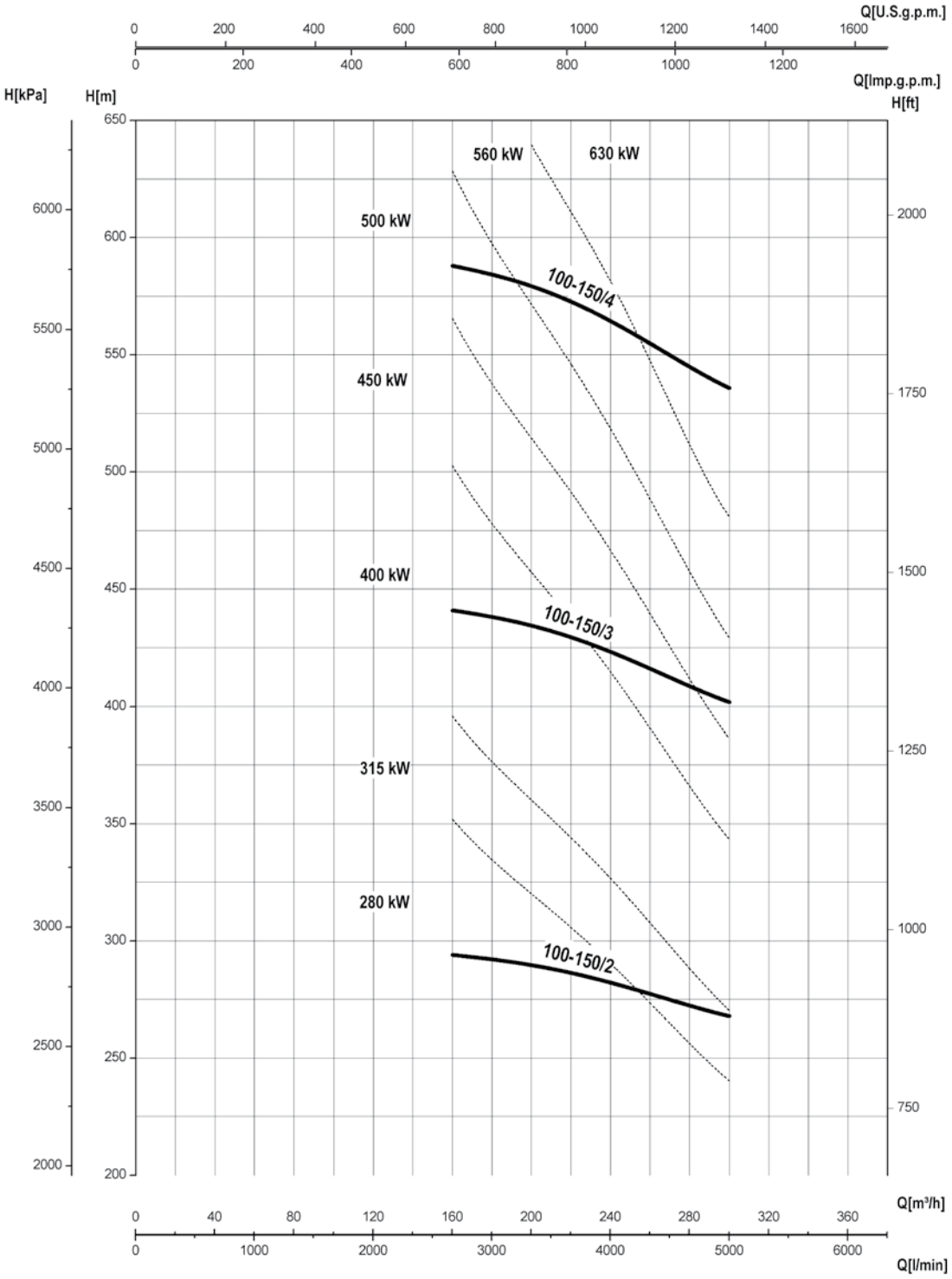
≈ 3550 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

100-150

≈ 3550 RPM

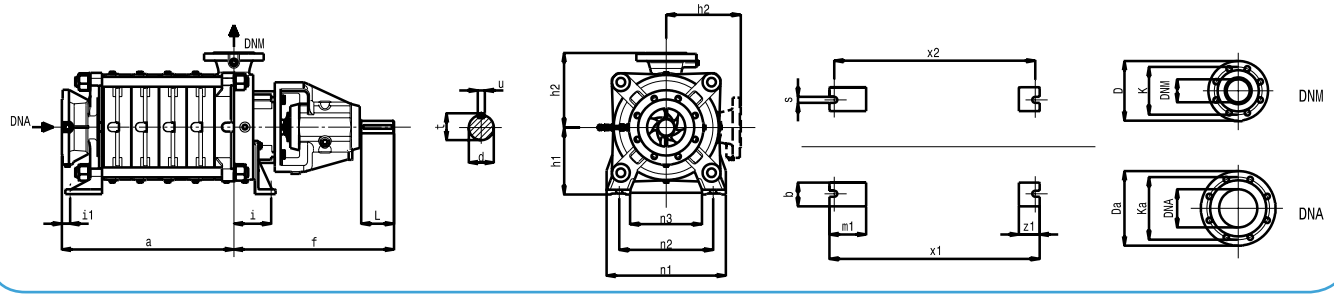


3550 RPM	100-150/2	100-150/3	100-150/4
TM	√	x	x
TMB	√	√	√
TMV	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

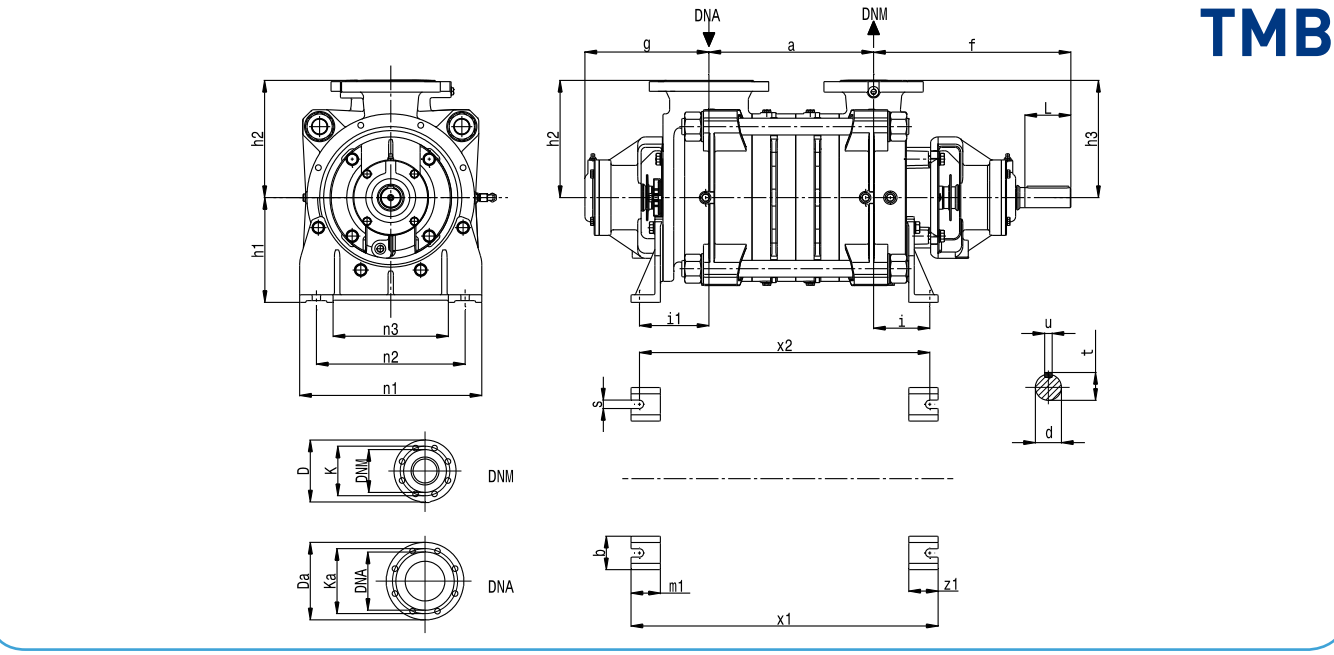
100-150 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u
TM100-150/2	150	100	372	540	466	406	435	355	275	250	280	120	70	20	80	100	135	110	48	51,8	14
TM100-150/3	150	100	476	540	570	510	435	355	275	250	280	120	70	20	80	100	135	110	48	51,8	14
TM100-150/4	150	100	580	540	674	614	435	355	275	250	280	120	70	20	80	100	135	110	48	51,8	14
TM100-150/5	150	100	684	540	778	718	435	355	275	250	280	120	70	20	80	100	135	110	48	51,8	14
TM100-150/6	150	100	788	540	882	822	435	355	275	250	280	120	70	20	80	100	135	110	48	51,8	14
TM100-150/7	150	100	892	540	986	926	435	355	275	250	280	120	70	20	80	100	135	110	48	51,8	14

TMB

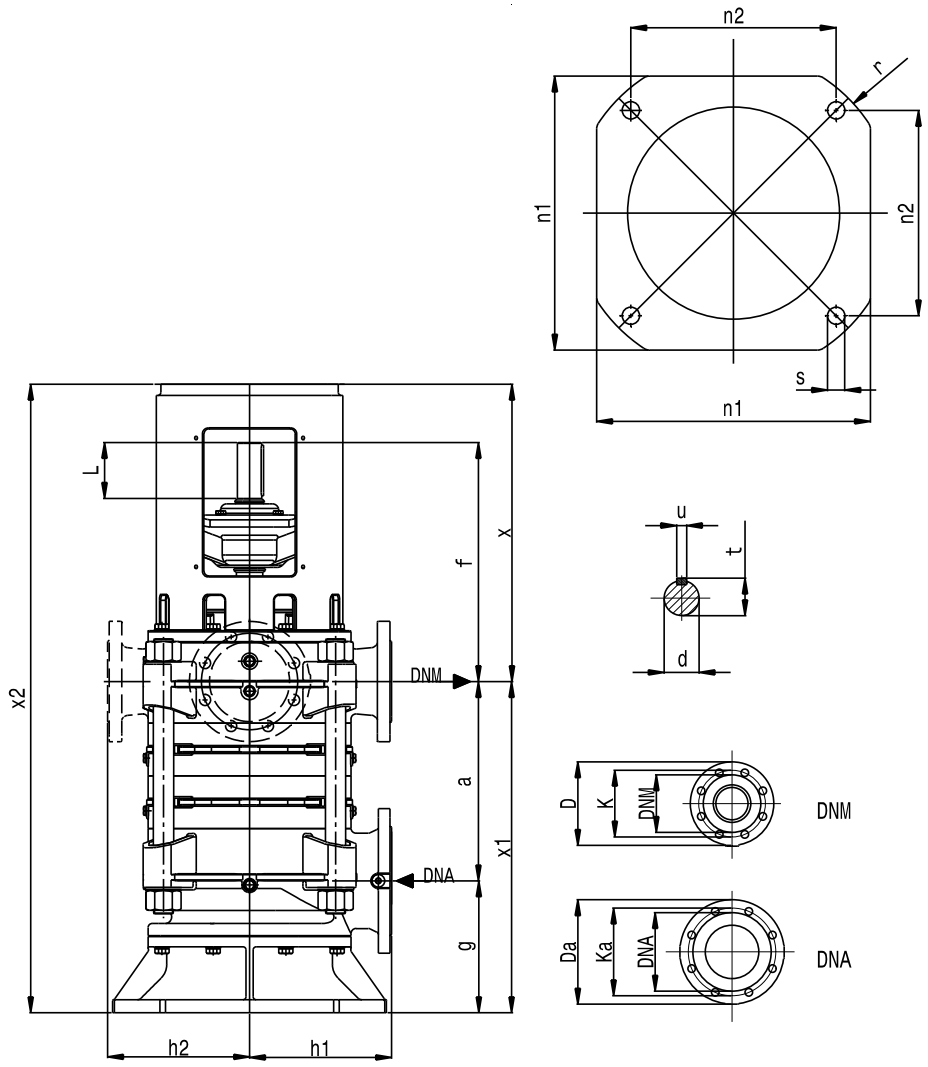


Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB100-150/2	150	100	289	296	470	629	589	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/3	150	100	393	296	470	733	693	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/4	150	100	497	296	470	837	797	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/5	150	100	601	296	470	941	901	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/6	150	100	705	296	470	1045	1005	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/7	150	100	809	296	470	1149	1109	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/8	150	100	913	296	470	1253	1213	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/9	150	100	1017	296	470	1357	1317	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14
TMB100-150/10	150	100	1121	296	470	1461	1421	435	355	275	250	280	280	70	70	20	80	166	135	110	48	51,8	14

DATI PROVVISORI - TEMPORARY DATA

100-150 DIMENSIONI
DIMENSIONS

TMV



Tipo Type	DNA	DNM	a	f	g	x 2 poli	x 4 poli	x1	x2 2 poli	x2 4 poli	n1	n2	h1	h2	r	s	L	d	t	u
TMV100-150/2	150	100	289	471	260	616	586	549	1165	1135	540	405	280	280	320	34	110	48	51,8	14
TMV100-150/3	150	100	393	471	260	616	586	653	1269	1239	540	405	280	280	320	34	110	48	51,8	14
TMV100-150/4	150	100	497	471	260	616	586	757	1373	1343	540	405	280	280	320	34	110	48	51,8	14
TMV100-150/5	150	100	601	471	260	616	586	861	1477	1447	540	405	280	280	320	34	110	48	51,8	14
TMV100-150/6	150	100	705	471	260	616	586	965	1581	1551	540	405	280	280	320	34	110	48	51,8	14
TMV100-150/7	150	100	809	471	260	616	586	1069	1685	1655	540	405	280	280	320	34	110	48	51,8	14

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	285	240	150	22	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	235	190	100	22	8

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN63*	250	200	100	26	8

* Versioni PN63 - Versions PN63

TM

125-200 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

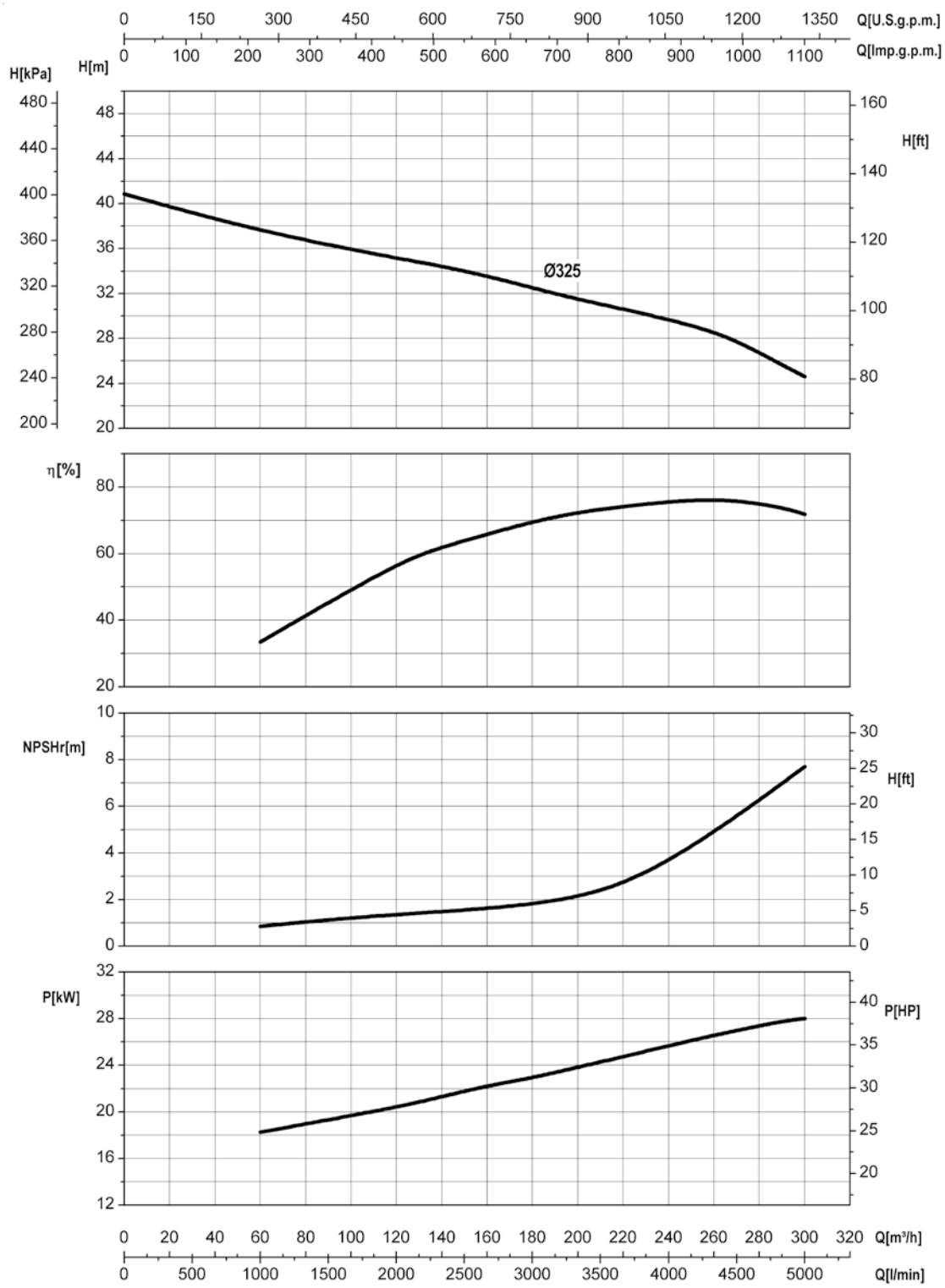
Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	528	616	704	792	880	968	1100	1188	1320
				m^3/h	0	120	140	160	180	200	220	250	270	300
	kW	HP		l/min	0	2000	2334	2667	3001	3334	3667	4168	4501	5001
Prevalenza totale in m. – Total head in m														
125-200/2	55	75	H [m]		81,5	70,5	69	67	65	63	61	58,5	56	
125-200/3	90	125			122,5	105,5	103	100,5	97,5	94,5	91,5	88	84	74
125-200/4	110	150			163,5	140,5	137,5	134,5	130	126	122	117	112	
125-200/5	160	220			204,5	176	172	168	162,5	157,5	152,5	146,5	140	123
125-200/6	200	270			245	211	206,5	201,5	195	189	183	175,5	168	147,5
125-200/7	200	270			286	246	241	235	227,5	220,5	213,5	205	196	172
125-200/8	250	340			327	281,5	275	268,5	260,5	252,5	244,5	234	224	197
NPSHr [m]					-	1,1	1,4	1,6	1,8	2,2	2,5	4	5,5	7,7

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	572	704	792	880	1012	1100	1188	1320	1452
				m^3/h	0	130	160	180	200	230	250	270	300	330
	kW	HP		l/min	0	2167	2667	3001	3334	3834	4168	4501	5001	5501
	S.F.1.15		Prevalenza totale in m. – Total head in m											
125-200/2	90	125	H [m]		118	104	101,5	100,5	97	94	92	87,5	84,5	77
125-200/3	160	220			177	155,5	152	150,5	145,5	141	137,5	131,5	126,5	115,5
125-200/4	200	270			236	207,5	203	201	194	188	183,5	175,5	169	154
125-200/5	250	340			295	259,5	253,5	251	242,5	235	229,5	219	211	192,5
125-200/6	280	380			354	311,5	304	301	291	282	275,5	263	253,5	231
NPSHr [m]					-	1,8	2	2,2	2,4	3	3,3	4,2	5,7	7,8

125-200

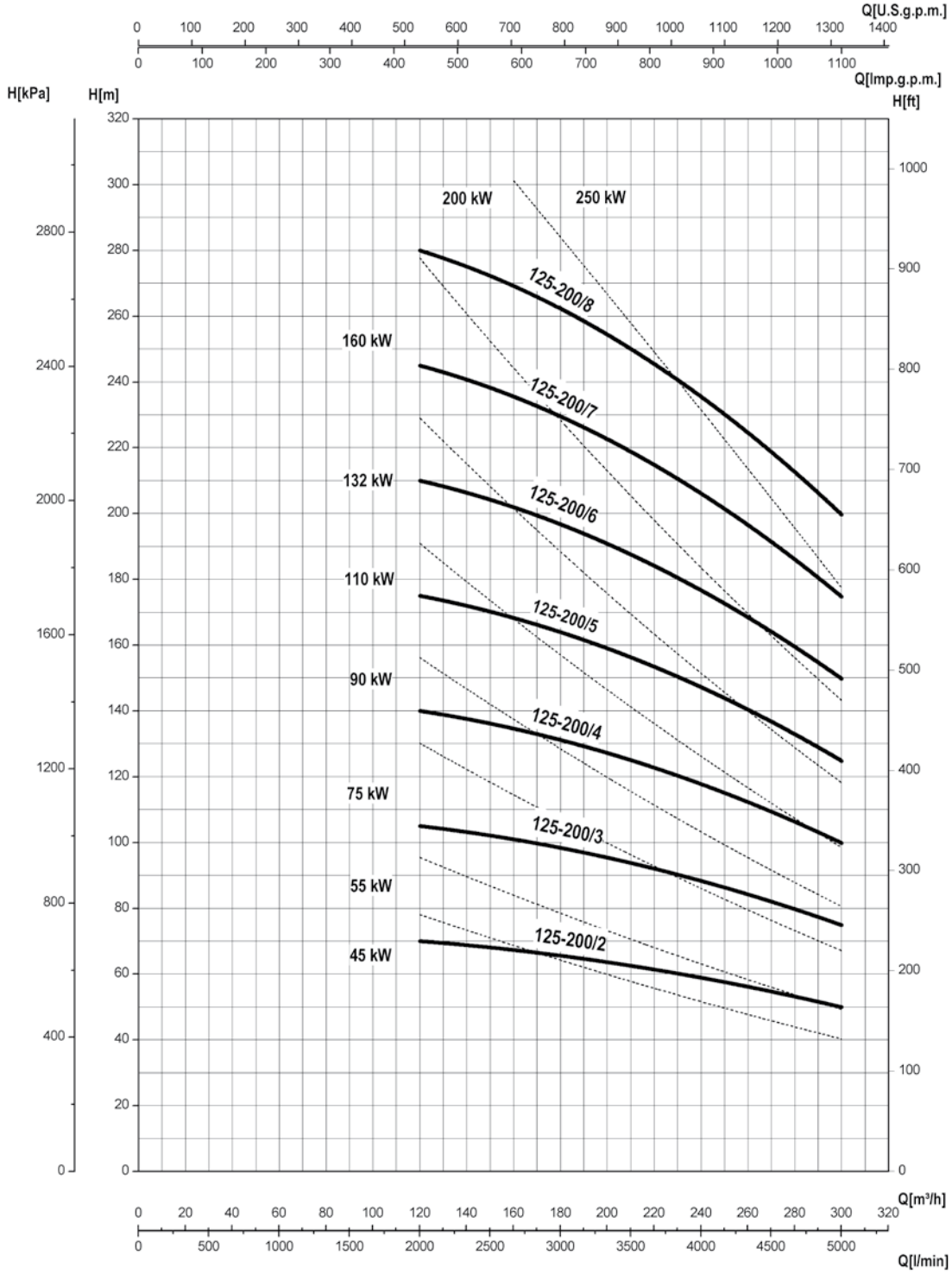
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

125-200

≈ 1450 RPM

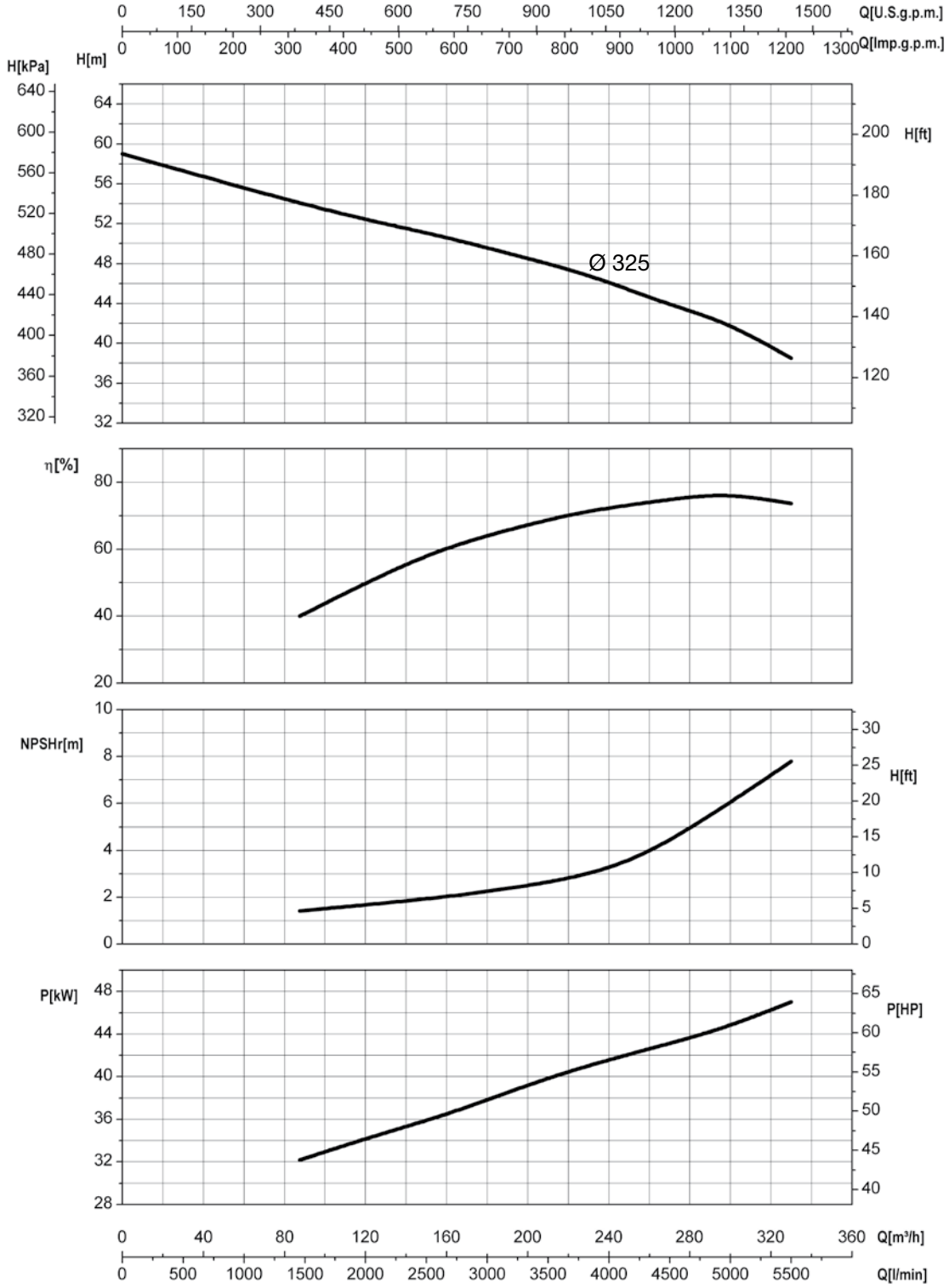


1450 RPM	125-200/2	125-200/3	125-200/4	125-200/5	125-200/6	125-200/7	125-200/8
TM	√	√	√	√	x	x	x
TMB	√	√	√	√	√	√	√
TMV	√	√	√	√	x	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

125-200

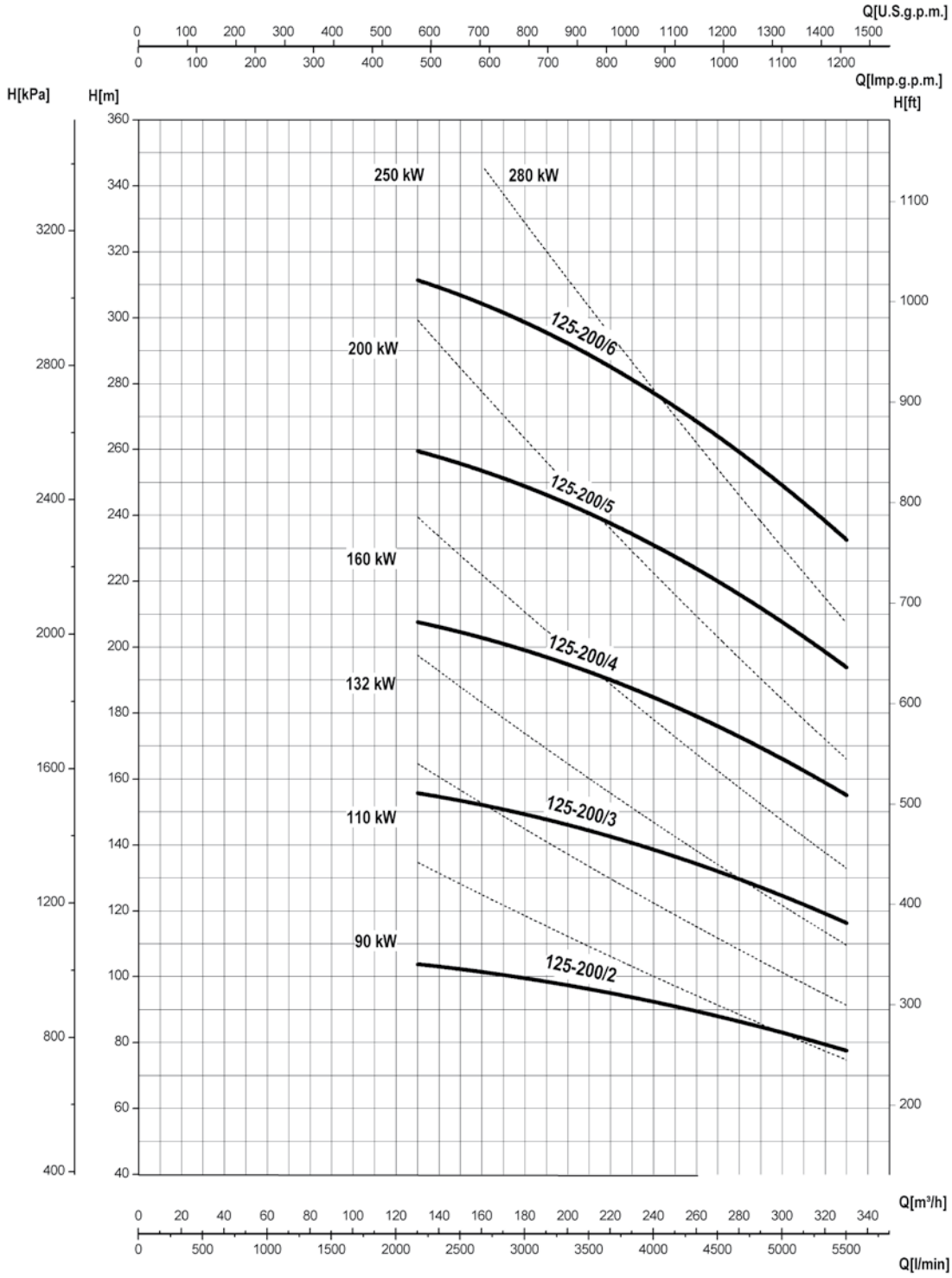
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

125-200

≈ 1750 RPM

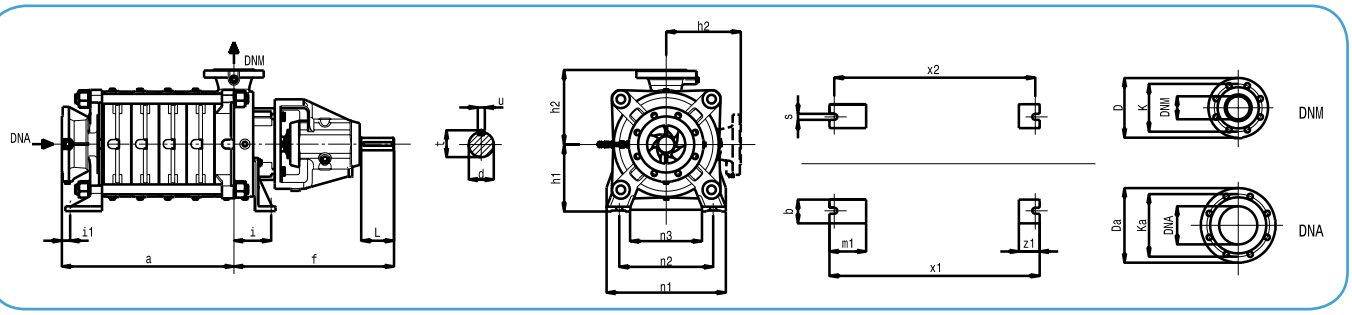


1750 RPM	125-200/2	125-200/3	125-200/4	125-200/5	125-200/6
TM	√	√	√	x	x
TMB	√	√	√	√	√
TMV	√	√	√	x	x

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

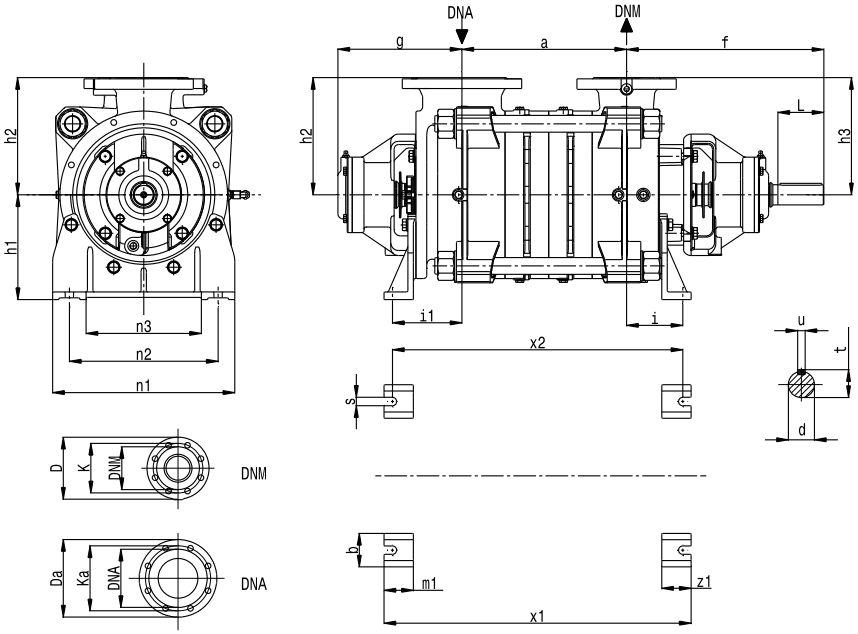
125-200 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u
TM125-200/2	200	125	441	680	663	611	500	400	300	280	315	170	170	28	100	69	240	140	60	64,4	18
TM125-200/3	200	125	565	680	787	735	500	400	300	280	315	170	170	28	100	69	240	140	60	64,4	18
TM125-200/4	200	125	689	680	911	859	500	400	300	280	315	170	170	28	100	69	240	140	60	64,4	18
TM125-200/5	200	125	813	680	1035	983	500	400	300	280	315	170	170	28	100	69	240	140	60	64,4	18

TMB

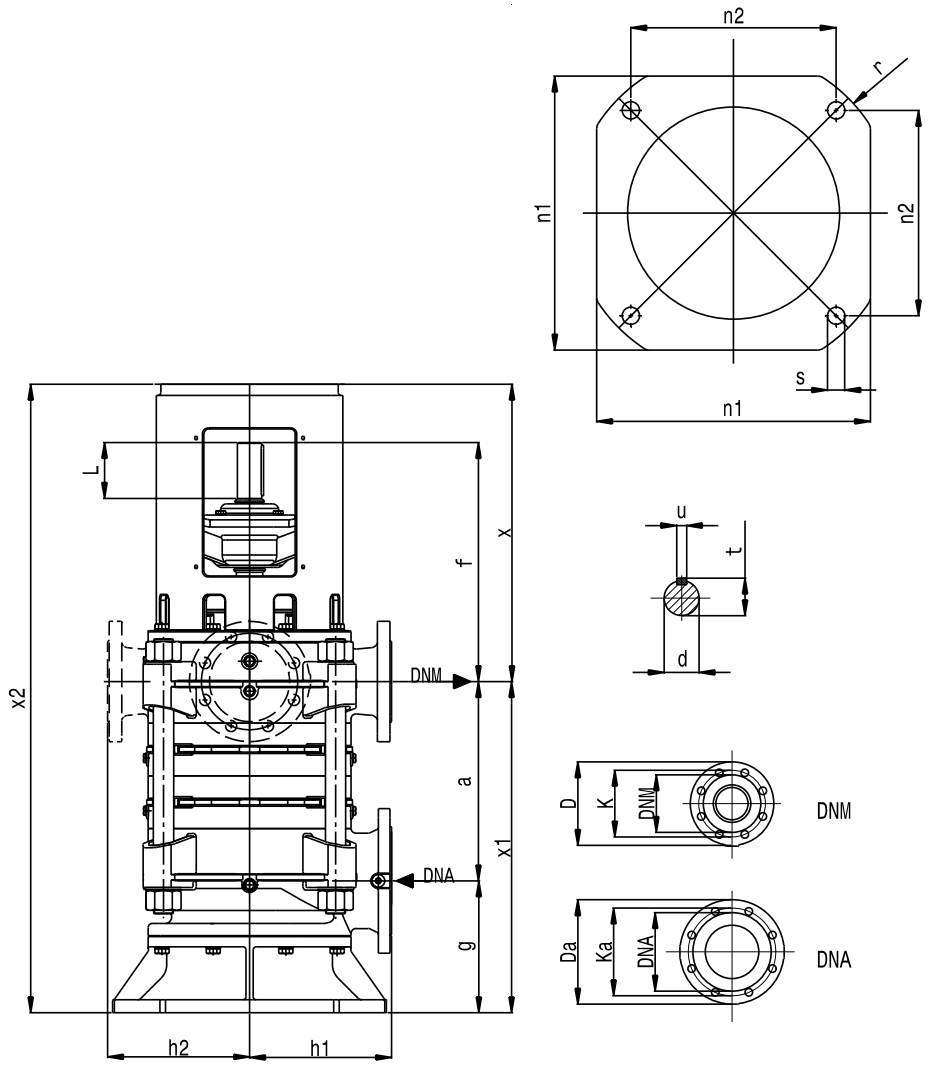


Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB125-200/2	200	125	340	345	555	906	854	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18
TMB125-200/3	200	125	464	345	555	1030	978	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18
TMB125-200/4	200	125	588	345	555	1154	1102	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18
TMB125-200/5	200	125	712	345	555	1278	1226	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18
TMB125-200/6	200	125	836	345	555	1402	1350	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18
TMB125-200/7	200	125	960	345	555	1526	1474	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18
TMB125-200/8	200	125	1084	345	555	1650	1598	500	400	300	280	315	315	170	170	28	100	274	240	140	60	64,4	18

DATI PROVVISORI - TEMPORARY DATA

125-200 DIMENSIONI
DIMENSIONS

TMV



Tipo Type	DNA	DNM	a	f	g	x	x1	x2	n1	n2	h1	h2	r	s	L	d	t	u
TMV125-200/2	200	125	340	555	257	705	597	1302	600	450	315	315	360	33	140	60	64,4	18
TMV125-200/3	200	125	464	555	257	705	721	1426	600	450	315	315	360	33	140	60	64,4	18
TMV125-200/4	200	125	588	555	257	705	845	1550	600	450	315	315	360	33	140	60	64,4	18
TMV125-200/5	200	125	712	555	257	705	969	1674	600	450	315	315	360	33	140	60	64,4	18

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	340	295	200	22	12

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	270	220	125	26	8

TMBX

150-200 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

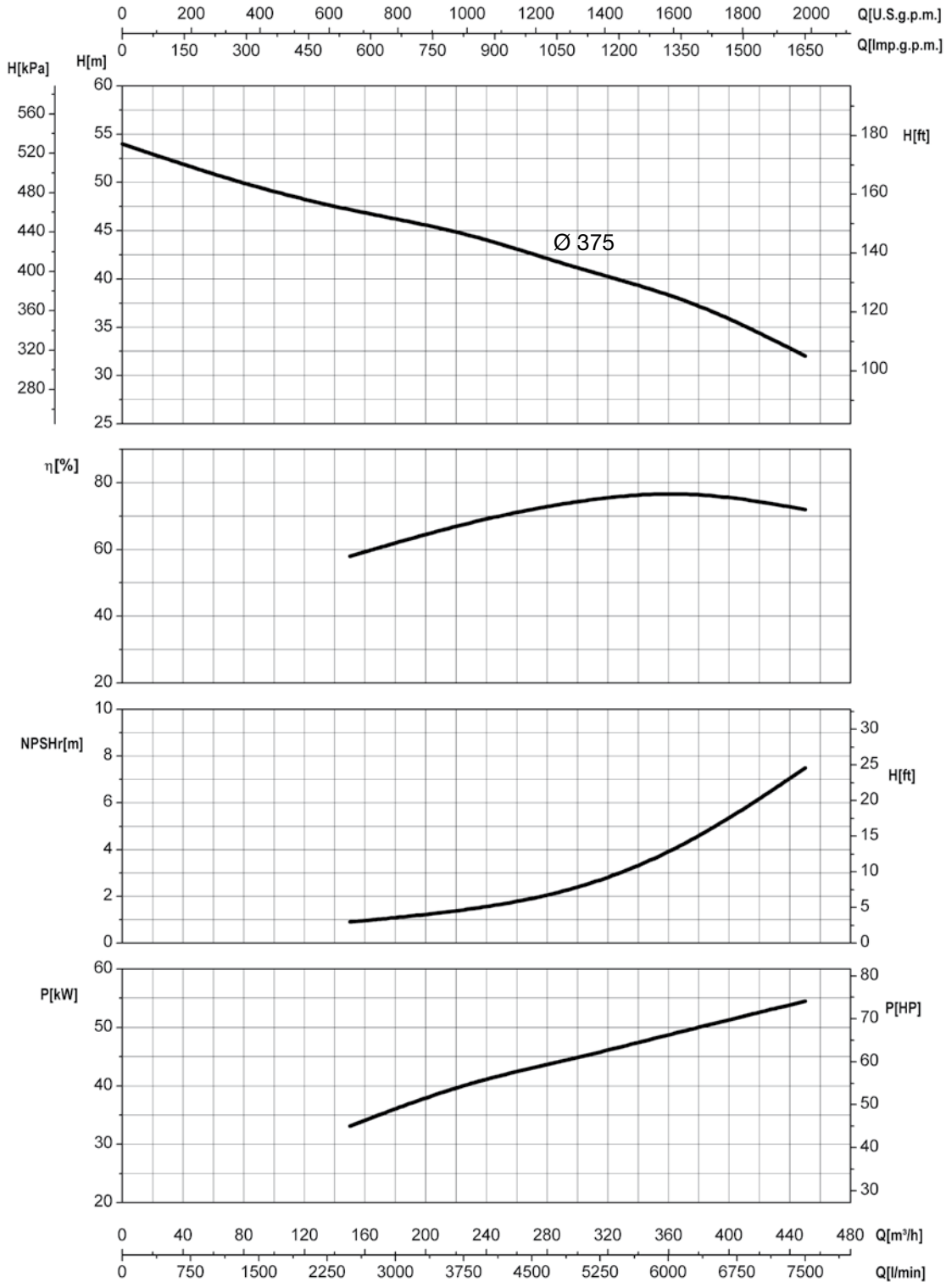
Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	660	827,2	990	1320	1487,2	1650	1760	1870	1980
				m³/h	0	150	188	225	300	338	375	400	425	450
	kW	HP		l/min	0	2500	3134	3751	5001	5634	6251	6668	7085	7502
Prevalenza totale in m. – Total head in m														
150-200/2	110	150			108	94	92	90	82	79	76	71,5	68	64
150-200/3	160	220			162	141	138	135	123	118,5	114	107,5	102	96
150-200/4	250	340		H [m]	216	188	184	180	164	158	152	143	136	128
150-200/5	315	430			270	235	230	225	205	197,5	190	179	170	160
150-200/6	355	480			324	282	276	270	246	237	228	215	204	192
NPSHr [m]					-	0,9	1	1,3	2,2	2,8	4,2	5,1	6	7,5

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	792	990	1188	1584	1782	1980	2112	2244	2376
				m³/h	0	180	225	270	360	405	450	480	510	540
	kW	HP		l/min	0	3001	3751	4501	6001	6751	7502	8002	8502	9002
	S.F.1.15				Prevalenza totale in m. – Total head in m									
150-200/2	200	270			156	135	132	129,5	118	114	109	103	98	92
150-200/3	280	380		H [m]	234	202,5	198	194,5	177	171	163,5	154,5	147	138
150-200/4	400	540			312	270	264	259	236	228	218	206	196	184
NPSHr [m]					-	0,9	1	1,3	2,2	2,8	4,2	5,1	6	7,5

150-200

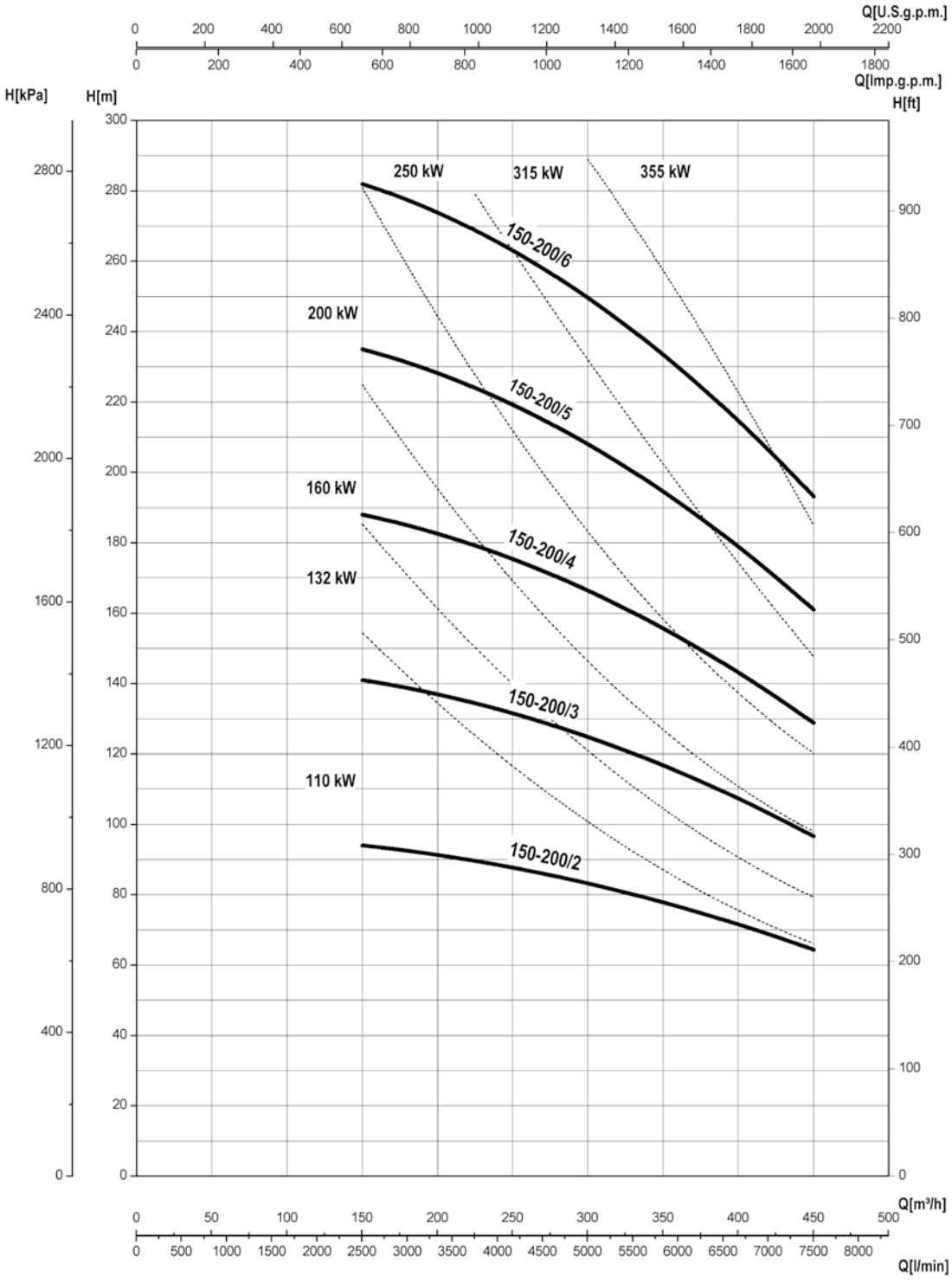
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

150-200

≈ 1450 RPM

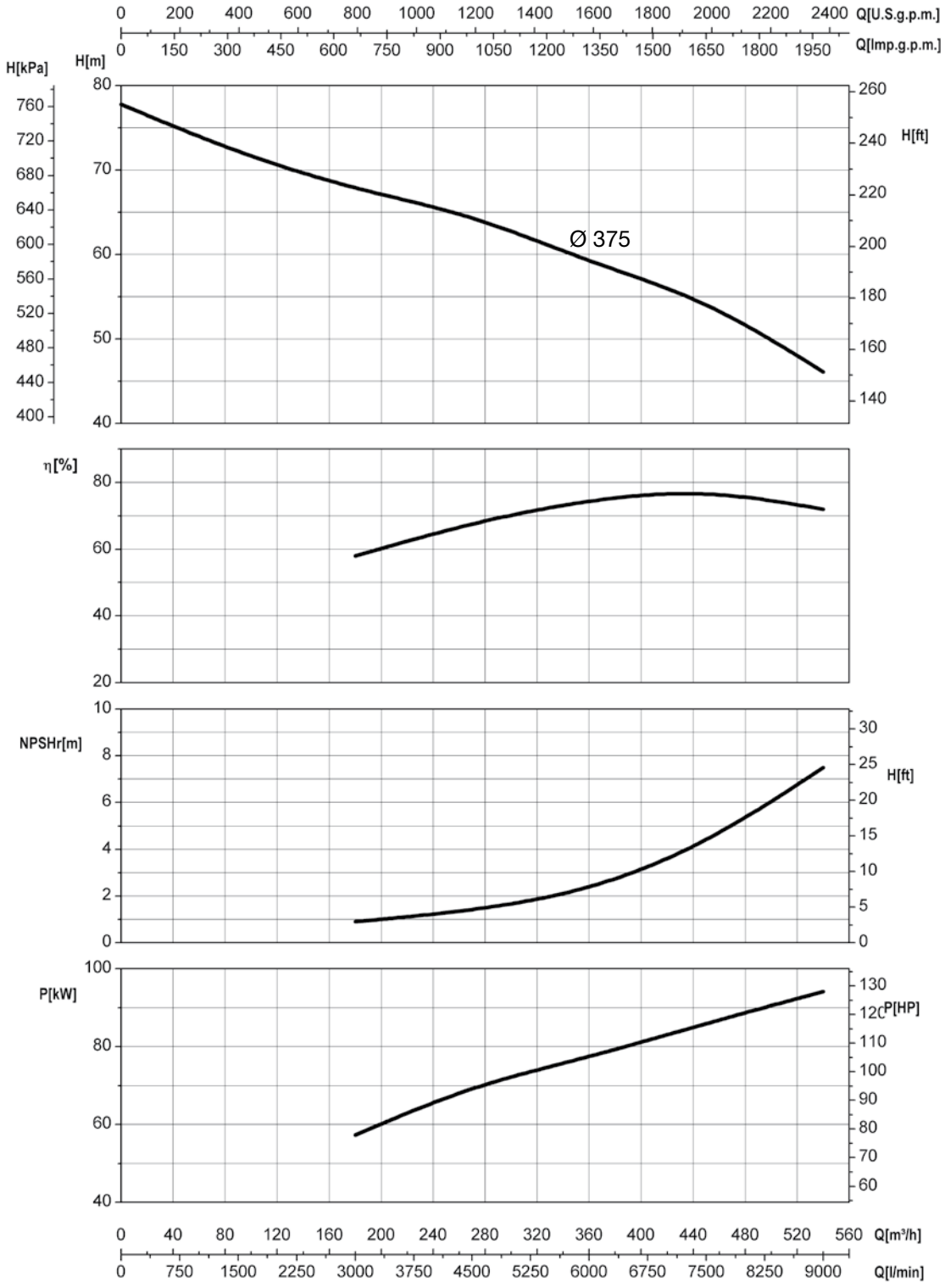


1450 RPM	150-200/2	150-200/3	150-200/4	150-200/5	150-200/6
TM	√	√	√	x	x
TMB	√	√	√	√	√

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

150-200

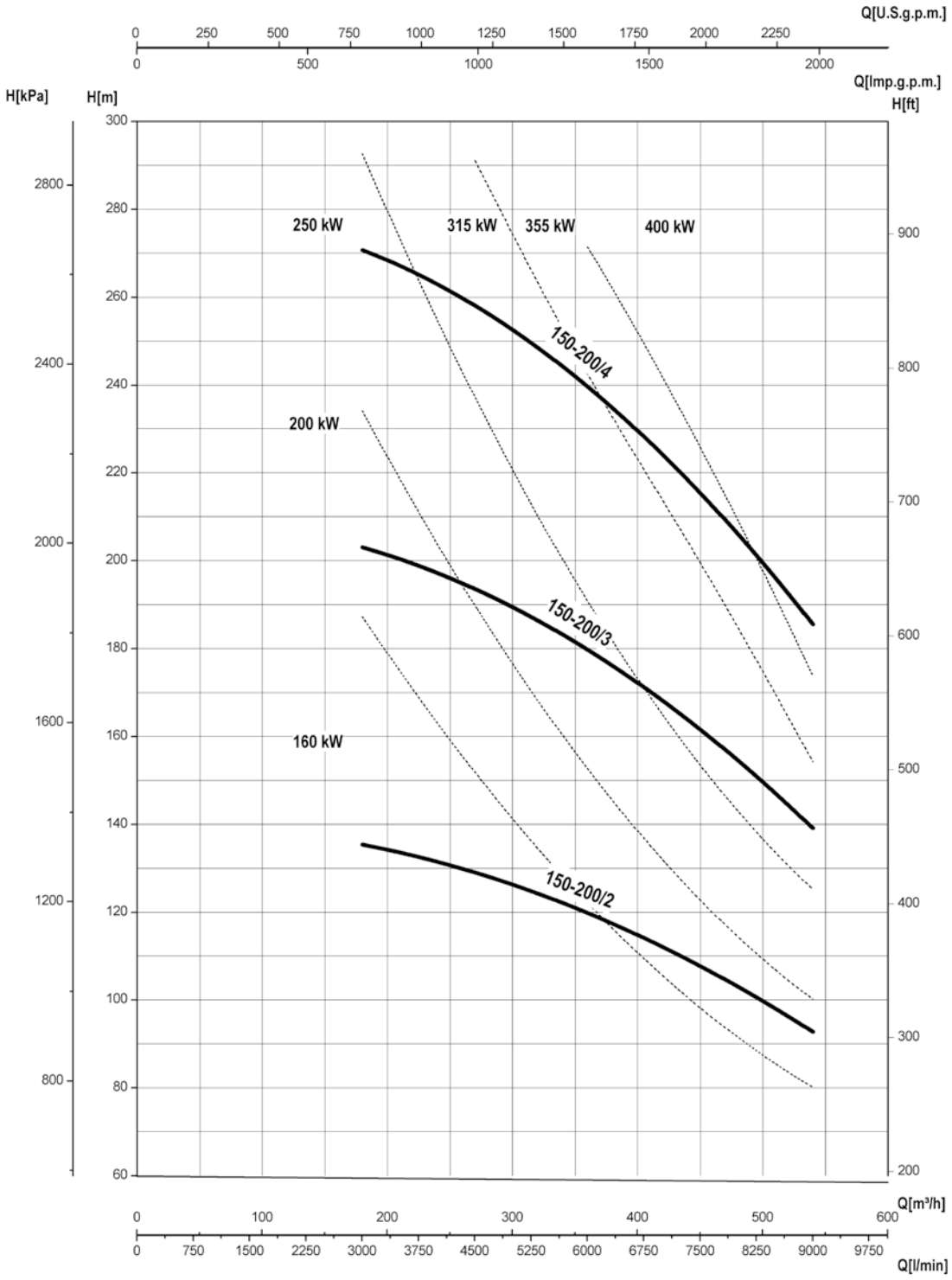
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

150-200

≈ 1750 RPM

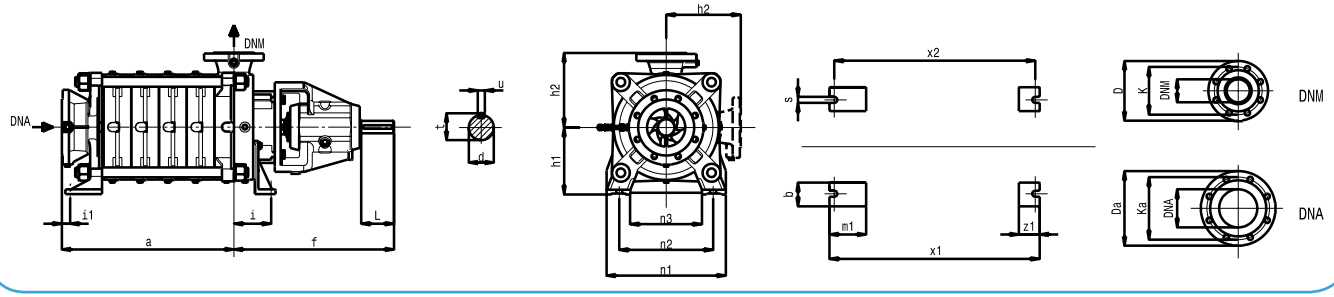


1750 RPM	150-200/2	150-200/3	150-200/4
TM	√	√	x
TMB	√	√	√

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

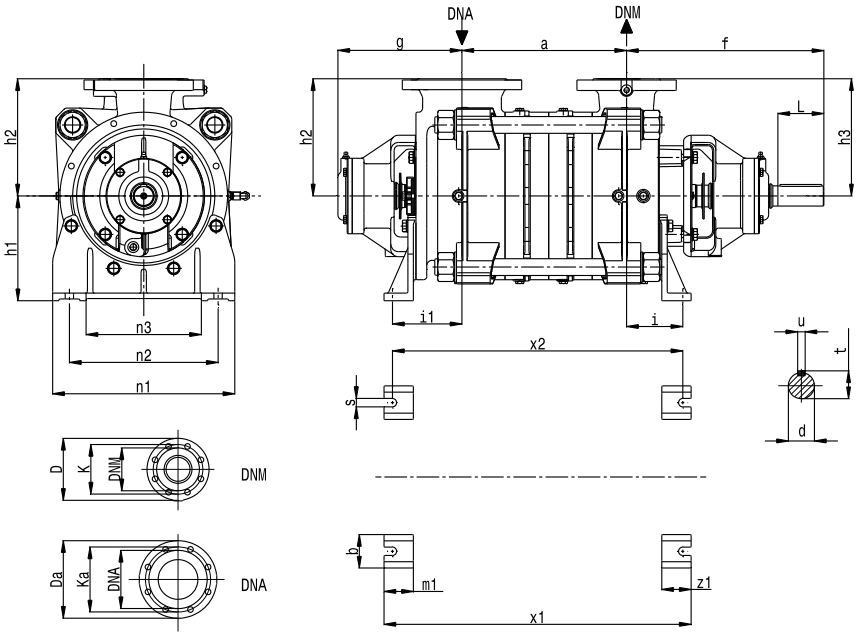
150-200 DIMENSIONI
DIMENSIONS

TM



Tipo Type	DNA	DNM	a	f	x1	x2	n1	n2	n3	h1	h2	m1	z1	s	b	i1	i	L	d	t	u
TM150-200/2	200	150	489	704	669	604	650	500	350	315	355	170	125	30	150	90	205	140	60	64,4	18
TM150-200/3	200	150	623	704	803	738	650	500	350	315	355	170	125	30	150	90	205	140	60	64,4	18
TM150-200/4	200	150	757	704	937	872	650	500	350	315	355	170	125	30	150	90	205	140	60	64,4	18

TMB



Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB105-200/2	200	150	372	358	575	872	802	650	500	350	315	355	355	125	125	30	150	225	205	140	60	64,4	18
TMB105-200/3	200	150	506	358	575	1006	936	650	500	350	315	355	355	125	125	30	150	225	205	140	60	64,4	18
TMB105-200/4	200	150	640	358	575	1140	1070	650	500	350	315	355	355	125	125	30	150	225	205	140	60	64,4	18
TMB105-200/5	200	150	774	358	575	1274	1204	650	500	350	315	355	355	125	125	30	150	225	205	140	60	64,4	18
TMB105-200/6	200	150	908	358	575	1408	1338	650	500	350	315	355	355	125	125	30	150	225	205	140	60	64,4	18

	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	340	295	200	22	12

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	300	250	150	26	8

DATI PROVVISORI - TEMPORARY DATA

200-250 CARATTERISTICHE IDRAULICHE
HYDRAULIC FEATURES

1450 RPM

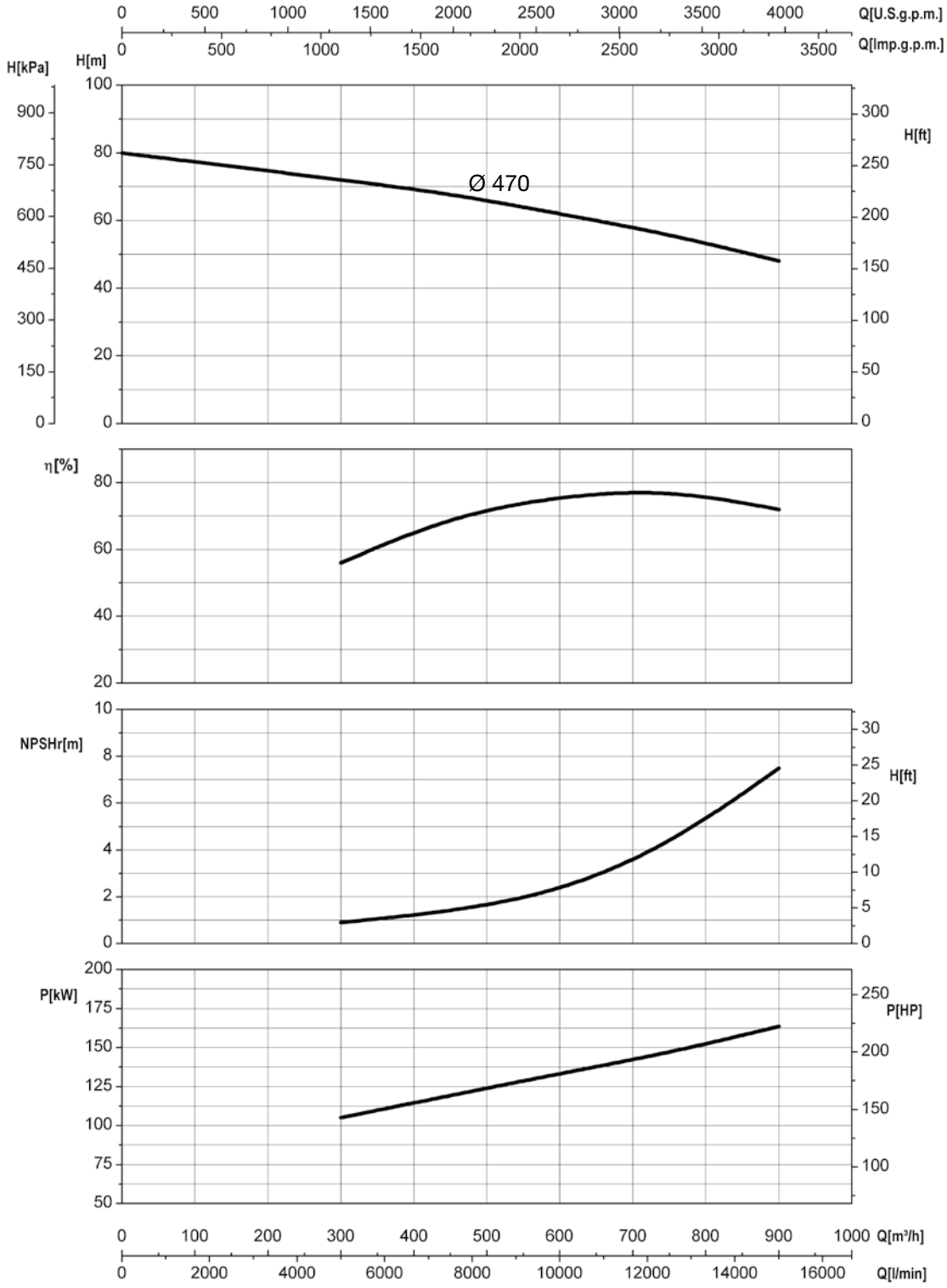
Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	1320	1650	1980	2310	2640	2970	3300	3630	3960
				m³/h	0	300	375	450	525	600	675	750	825	900
	kW	HP		l/min	0	5001	6251	7502	8752	10002	11252	12503	13753	15003
Prevalenza totale in m. – Total head in m														
200-250/2	355	480	H [m]		160	144	140	136	130	124	117	112	103	96
200-250/3	560	760			240	216	210	204	195	186	175,5	168	154,5	144
200-250/4	710	970			320	288	280	272	260	248	234	224	206	192
NPSHr [m]					-	0,9	1	1,3	1,6	2,2	2,9	4,2	5,5	7,5

1750 RPM

Tipo Type	Motore Motor		Q	U.S.g.p.m.	0	1584	1980	2376	2772	3168	3564	3960	4356	4752
				m³/h	0	360	450	540	630	720	810	900	990	1080
	kW	HP		l/min	0	6001	7502	9002	10502	12002	13503	15003	16503	18003
	S.F.1.15		Prevalenza totale in m. – Total head in m											
200-250/2	630	860	H [m]		230,5	207,5	201,5	196	187	178,5	168,5	161,5	148,5	138
200-250/3	900	1200			345,5	311	302,5	294	281	268	252,5	242	222,5	207,5
NPSHr [m]					-	0,9	1	1,3	1,6	2,2	2,9	4,2	5,5	7,5

200-250

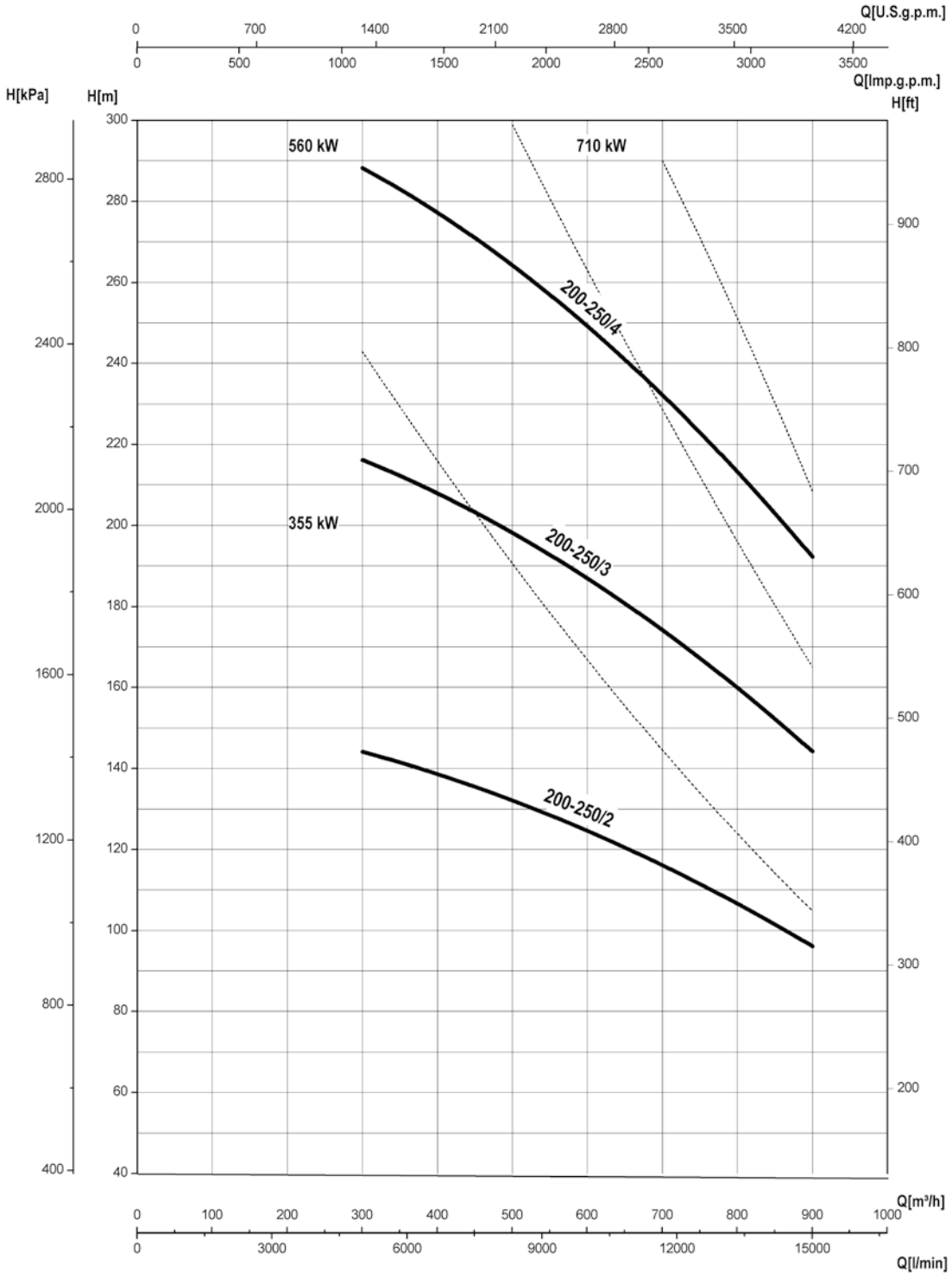
≈ 1450 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

200-250

≈ 1450 RPM

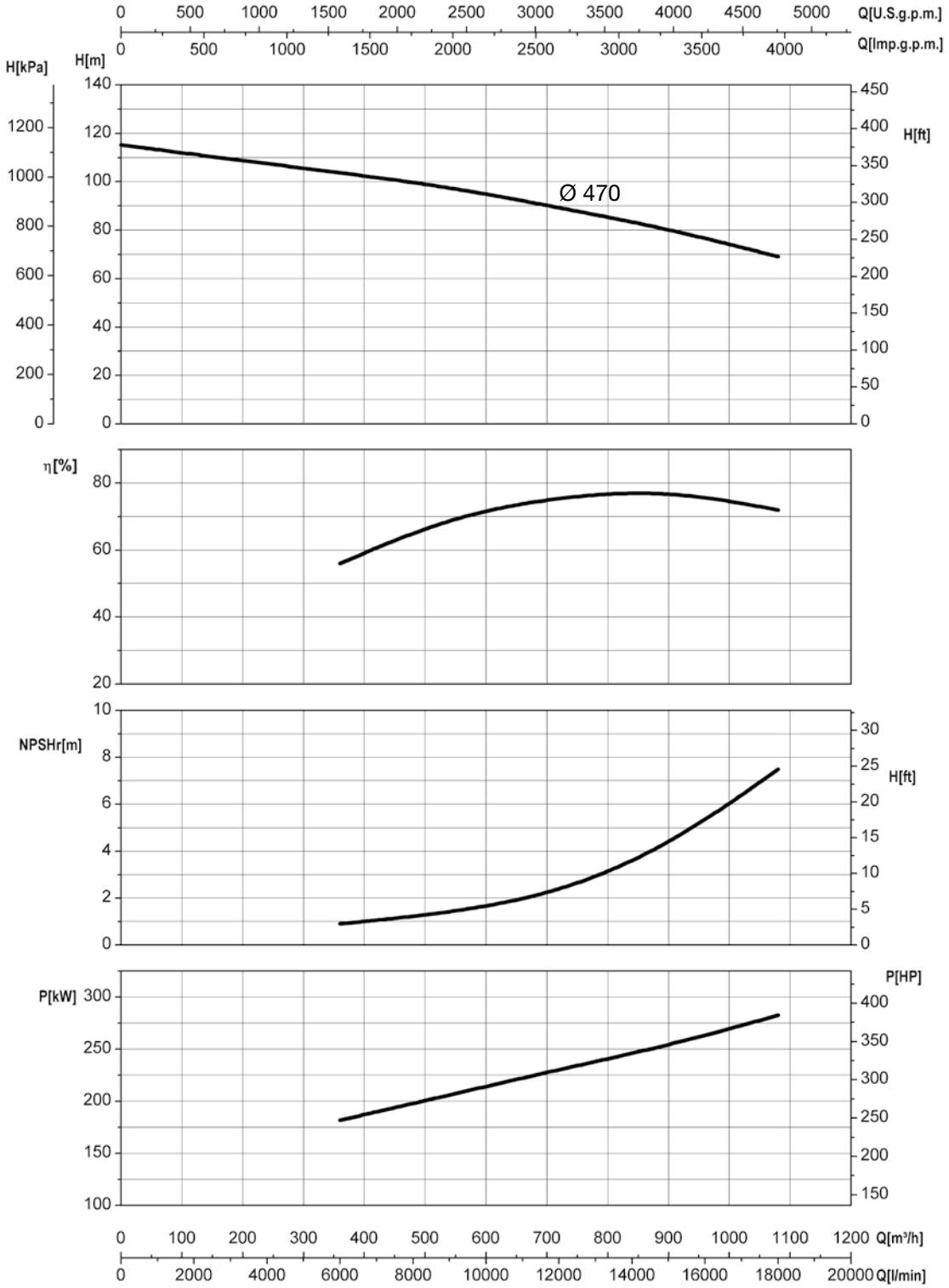


1450 RPM	200-250/2	200-250/3	200-250/4
TMB	√	√	√

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

200-250

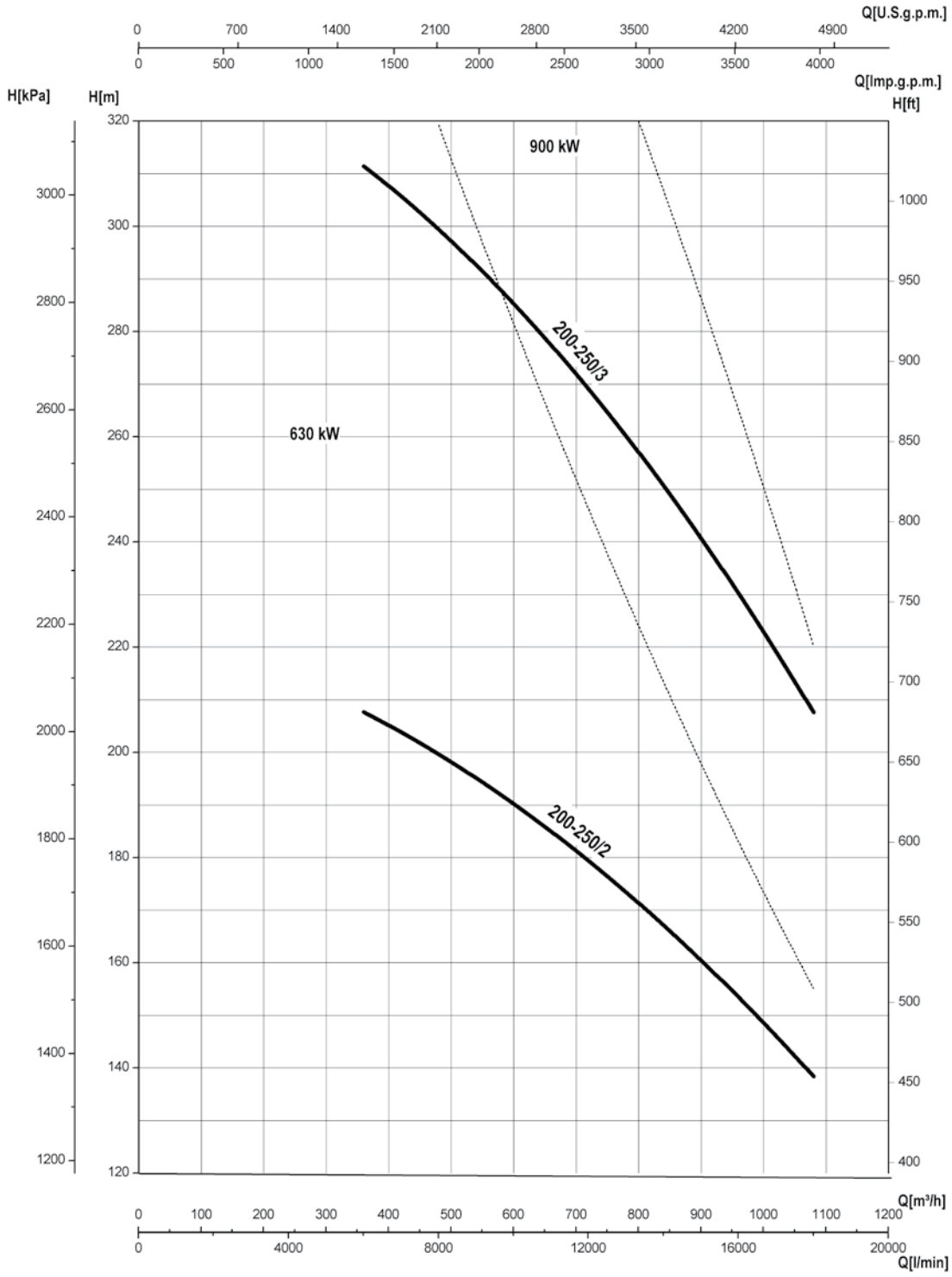
≈ 1750 RPM



Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm²/s, densità pari a 1000 kg/m³, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm²/s, density equal to 1000 kg/m³,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

200-250

≈ 1750 RPM

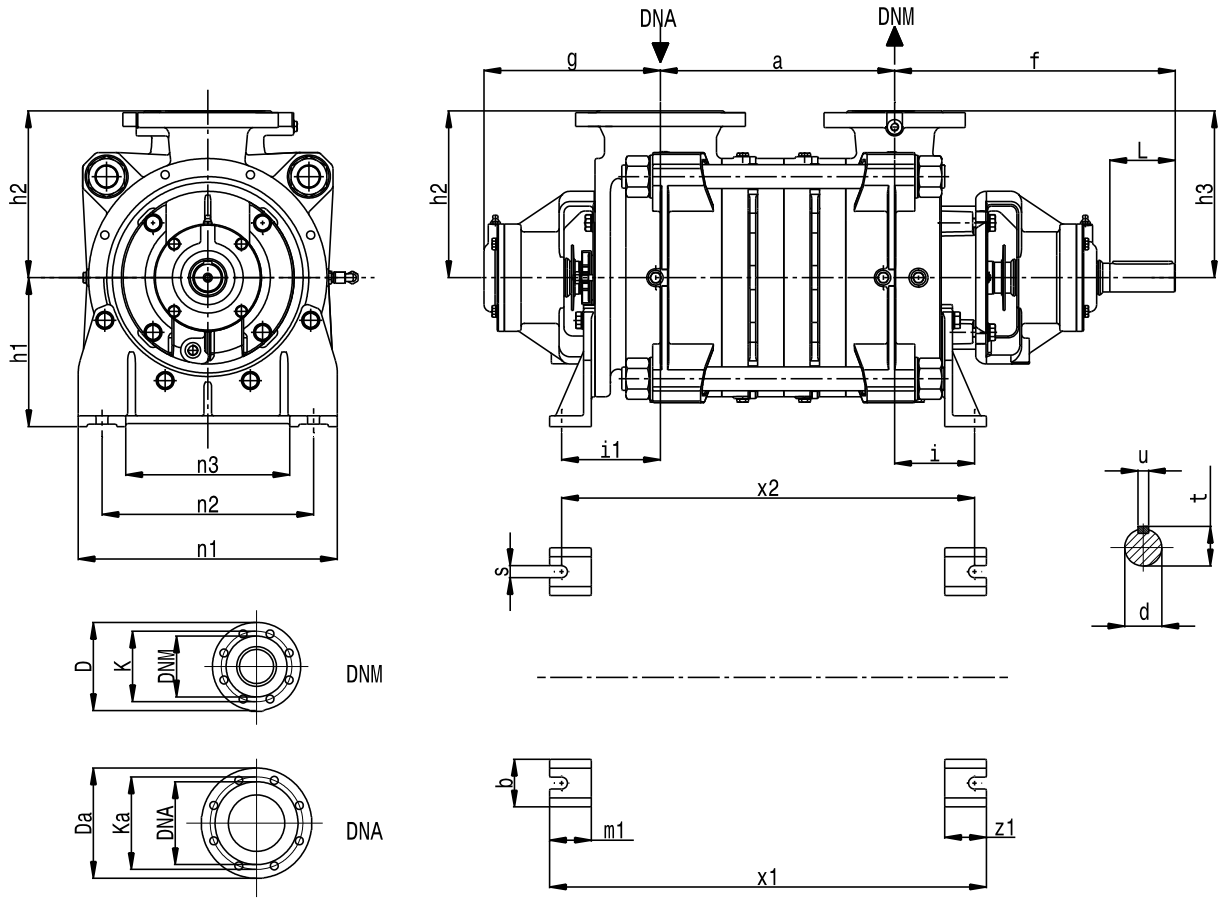


1750 RPM	200-250/2	200-250/3
TMB	√	√

Le curve di prestazione sono basate su valori di viscosità cinematica = 1 mm^2/s, densità pari a 1000 kg/m^3, temperatura acqua 15°C e materiale parti idrauliche in versione standard. Tolleranza e curve secondo UNI EN ISO 9906 – Appendice A • The performance curves are based on the kinematic viscosity values = 1 mm^2/s, density equal to 1000 kg/m^3,temperature of the water 15°C and materials od hydraulic parts in standard version. Tolerance and curves according to UNI EN ISO 9906 – Attachment A

200-250 DIMENSIONI
DIMENSIONS

TMB



Tipo Type	DNA	DNM	a	g	f	x1	x2	n1	n2	n3	h1	h2	h3	m1	z1	s	b	i1	i	L	d	t	u
TMB200-250/2	250	200	470	432	550	1090	990	575	445	315	400	450	450	170	170	32	130	275	245	140	70	74,9	20
TMB200-250/3	250	200	645	432	550	1265	1165	575	445	315	400	450	450	170	170	32	130	275	245	140	70	74,9	20
TMB200-250/4	250	200	820	432	550	1440	1340	575	445	315	400	450	450	170	170	32	130	275	245	140	70	74,9	20

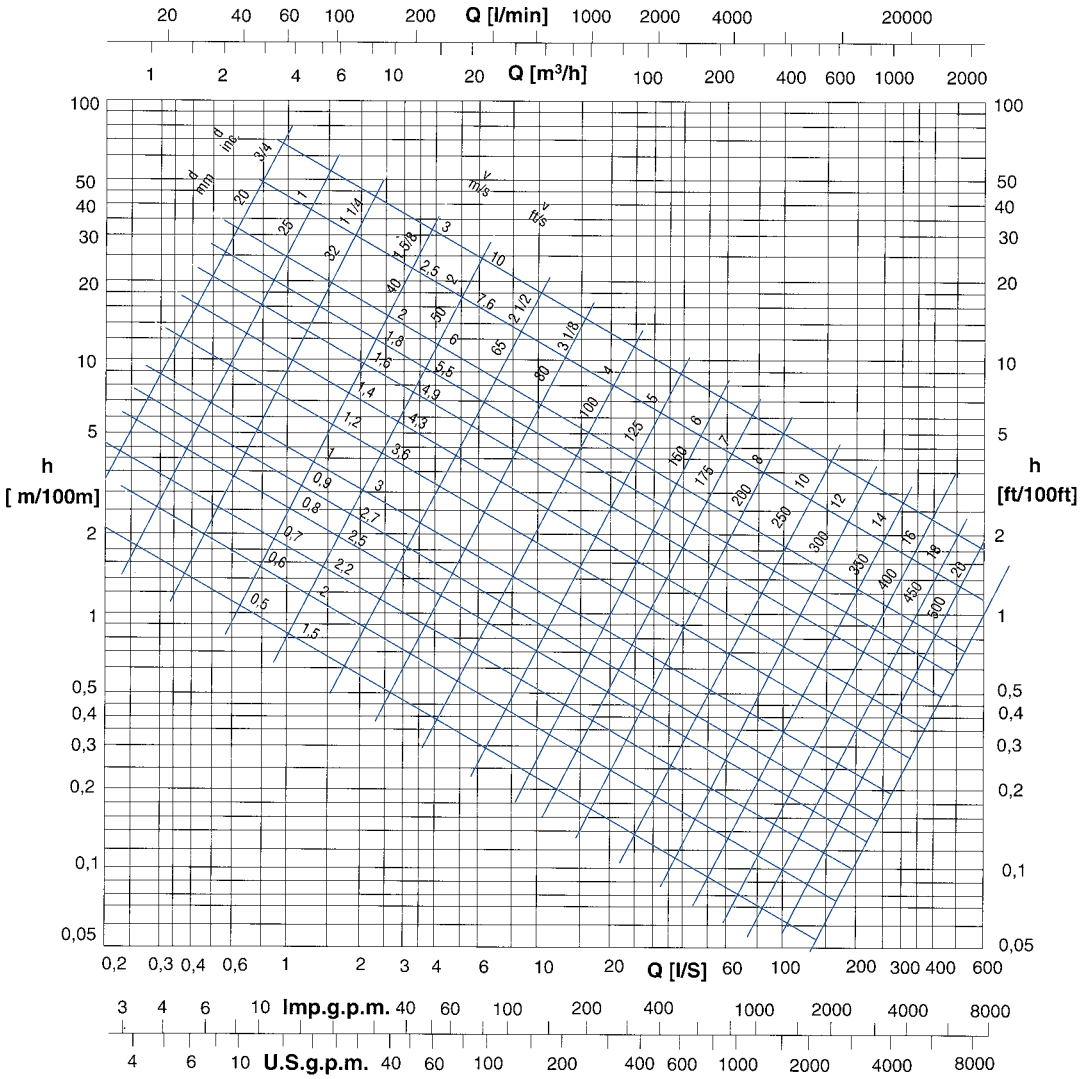
	Da	Ka	DNA	FORI - HOLES	
				Ø	N°
PN16	405	355	250	26	12

	D	K	DNM	FORI - HOLES	
				Ø	N°
PN40	375	320	200	30	12

DATI PROVVISORI - TEMPORARY DATA

PERDITE DI CARICO
LOAD LOSSES

In metri ogni 100 metri di tubazione diritta
In mt. every 100 mt. of straight pipeline



Note:	I valori sopra indicati s'intendono per tubi lisci in ghisa. Per una valutazione di massima, le perdite di carico devono essere moltiplicate per:	Notes:	Above mentioned values are to be inteded for internally smooth cast iron pipes. For an estimated evaluation, load losses must be multiplied for:
0,8	Per tubi di acciaio laminati nuovi	0,8	for new rolled steel pipes
1,25	Per tubi di acciaio leggermente arrugginiti	1,25	for slightly rusted steel pipes
0,7	Per tubi di alluminio	0,7	for aluminium pipes
0,65	Per tubi in PVC	0,65	for PVC pipes
1,25	Per tubi in fibra-cemento	1,25	for asbestos cement pipes
Q =	Portata in litri al secondo	Q =	Capacy, litres per second
v =	Velocità dell'acqua in metri al secondo	v =	Speed of water, meters per second
d =	Diametro del tubo in mm	d =	Diameter of pipe, mm.
h =	Perdita di carico in metri di colonna d'acqua	h =	Load loss, in mt. of water column

• La ditta si riserva la facoltà di modificare senza preavviso i dati riportati in questo catalogo.
• Saer can alter without notifications the data mentioned in this catalogue.

Prestazioni e tolleranze secondo UNI EN ISO 9906 - Appendice A
Performances and tolerances according to UNI EN ISO 9906 - Attachment A

SAER®
ELETTROPOMPE

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Cod. 244 - 10/2012 MCE

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Certificate N. 501003317