

BROCHURE N SERIES

BIRAGHI POMPE 1906



- *ITALIAN QUALITY*
- *SINCE 1906*

Centrifugal Process
Pumps ISO 2858-5199

2025



N SERIES—BIRAGHI POMPE 1906

N PROCESS PUMP

Pumps of the N series have been designed according to ISO 2858 standards, DIN 24256. They have single impeller, vertical split casing allowing a quick back extraction of the rotting elements when maintenance is necessary, without disconnecting the pump from pipes and if the unit is complete with flexible spacer coupling, without removing the motor.

The drive can be either direct through flexible coupling by electric motor or engine (2 or 4 strokes, diesel etc...) or indirect through a cantilevered pulley with V-belts.

APPLICATIONS

Thanks to its remarkable versatility, this range of pumps can be used for:

- ⇒ Civil plants
- ⇒ Industrial plants
- ⇒ Chemical plants
- ⇒ Petrochemical plants
- ⇒ To convey clean or slightly turbid liquids having a service temperature up to 120 °C in the standard construction with stuffing box.



N SERIES—BIRAGHI POMPE 1906

SPECIAL EXECUTIONS:

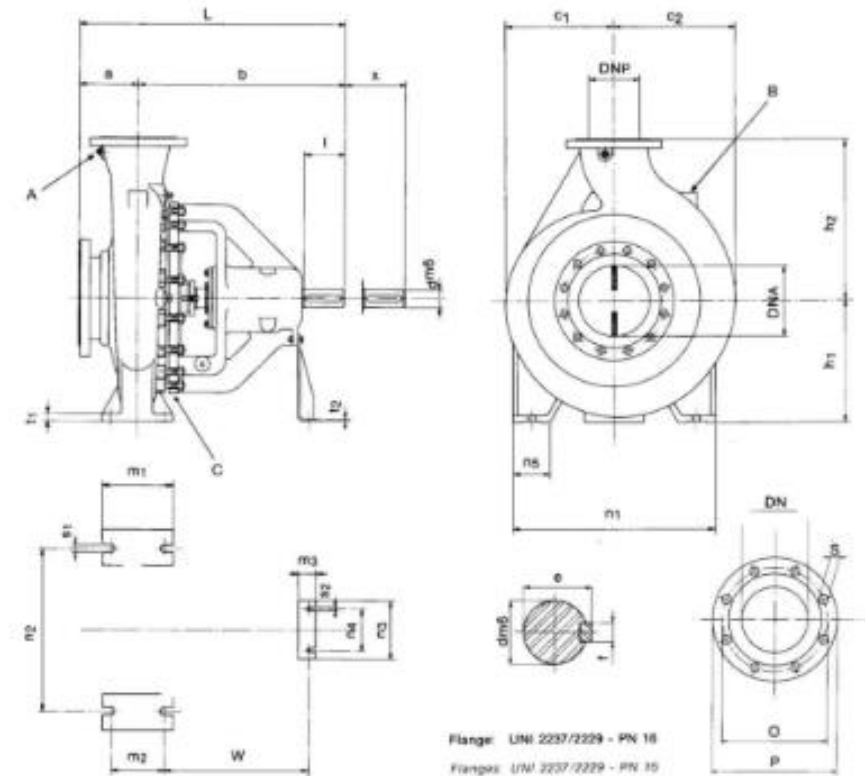
- ⇒ RP stuffing box fitted with cooling chamber with cold water circulation for liquid temperature exceeding 105 C.
- ⇒ FP stuffing box with possible flow of pure liquid coming from an external source and having a pressure value higher than pump discharge; used to convey dirty and slightly abrasive liquid.
- ⇒ OT standardized mechanical seal according to ISO 3069 standards, made of different materials according to the characteristic and service temperature of the convey liquid.
- ⇒ 20T double mechanical seal flowed with pure hot or cold liquid coming from an external source having pressure value higher than pump discharge and fitted with external discharge as well. This solution is suitable to convey abrasive liquids or liquids with solidification (e.g. cataphoresis paints) or crystallization characteristics.
- ⇒ 2/4/6 Poles



N SERIES—BIRAGHI POMPE 1906

CONSTRUCTION MATERIALS AND OVERALL SIZES

	STANDARD	b ₁	b ₃	x ₃	g ₃	a	g ₂
Corpo pompa	Ghisa G25	Bronzo BZN7	Bronzo B10	AISI 316	Ghisa GS400/12	Acc. fuso	Ghisa al Ni
Pump case	Cast iron G25	Bronze BZN7	Bronze B10	AISI 316	Cast iron GS400/12	Stain. still	Ni Cast iron
Coperchio	Ghisa G25	Bronzo BZN7	Bronzo B10	AISI 316	Ghisa GS400/12	Acc. fuso	Ghisa al Ni
Cover	Cast iron G25	Bronze BZN7	Bronze B10	AISI 316	Cast iron GS400/12	Stain. still	Ni Cast iron
Diffusore	Ghisa G25	Bronzo BZN7	Bronzo B10	AISI 316	Ghisa G25	Ghisa G25	Ghisa al Ni
Diffuser	Cast iron G25	Bronze BZN7	Bronze B10	AISI 316	Cast iron G25	Cast iron G25	Ni Cast iron
Girante	Ghisa G25	Bronzo BZN7	Bronzo B10	AISI 316	Ghisa G25	Ghisa al Ni	Ghisa al Ni
Impeller	Cast iron G25	Bronze BZN7	Bronze B10	AISI 316	Cast iron G25	Ni Cast iron	Ni Cast iron
Anelli usura	Ghisa G25	Bronzo BZN7	Bronzo B10	AISI 316	Ghisa G25	Ghisa al Ni	Ghisa al Ni
Wear rings	Cast iron G25	Bronze BZN7	Bronze B10	AISI 316	Cast iron G25	Ni Cast iron	Ni Cast iron
Supporto	Ghisa G25	Ghisa G25	Ghisa G25	Ghisa G25	Ghisa G25	Ghisa G25	Ghisa G25
Support	Cast iron G25	Cast iron G25	Cast iron G25	Cast iron G25	Cast iron G25	Cast iron G25	Cast iron G25
Albero T.B.	Acc. 38NCD4	Acc. AISI 431	Acc. AISI 431	Acc. AISI 316	Acc. 38 NCD4	Acc. 38NCD4	Acc. AISI 316
Shaft T.B.	Stain. still 38NCD4	Stain. still AISI 431	Stain. still AISI 431	Stain. still AISI 316	Stain. still 38 NCD4	Stain. still 38NCD4	Stain. still AISI 316
Albero T.M.	Acc. AISI 431	Acc. AISI 431	Acc. AISI 431	Acc. AISI 316	Acc. AISI 431	Acc. AISI 431	Acc. AISI 316
Shaft T.M.	Stain. still AISI 431	Stain. still AISI 431	Stain. still AISI 431	Stain. still AISI 316	Stain. still AISI 431	Stain. still AISI 431	Stain. still AISI 316



Capacity	to 850 m ³ /hr
Head	to 150 m
Max working pressure	to 10 bar
Temperature	to 140 C°

Modello Model	Dimensioni in mm (non impegnative) – Sizes in mm (approximate)																
	Pompa – Pump							Albero – Shaft				Spazio per lo smontaggio	Piedi di appoggio – Feet				
	L	a	b	c ₁	c ₂	h ₁	h ₂	d	l	e	f	x	m ₁	m ₂	m ₃	w	n ₁
N 125-500	850	180	670	350	400	400	500	48	140	51.5	14	180	250	190	60	430	690
N 150-500	920	200	720	370	430	425	550	60	140	64	18	210	250	190	60	505	690
N 200-500	920	200	720	400	480	450	600	60	140	64	18	240	315	250	60	475	760
N 250-500	1100	300	800	432	538	500	500	65	140	69	18	250	260	190	60	435	830
N 300-500	1020	300	720	467	608	450	670	70	140	75	20	270	355	280	60	550	810
N 350-500	1530	380	1150	505	688	600	600	110	210	116	28	380	400	300	60	800	1000

N SERIES—BIRAGHI POMPE 1906

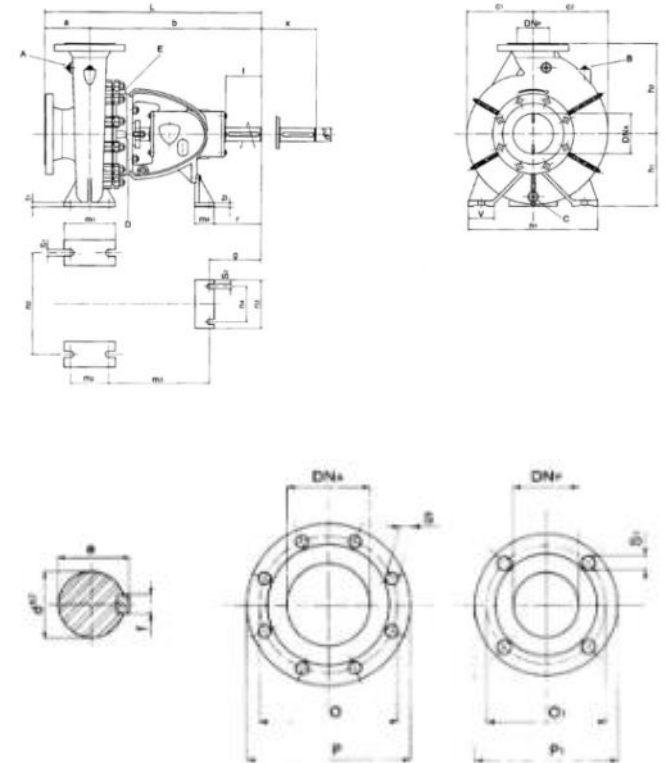
OVERALL SIZES

Dimensioni in mm (non impegnative) – Sizes in mm																Flangia aspirante Suction flange					Flangia premente Discharge flange					Modello Model
Piedi d'appoggio – Feet																										
g	m ₁	m ₂	m ₃	m ₄	n ₁	n ₂	n ₃	n ₄	r	s ₁	s ₂	t ₁	t ₂	v	DN _A	O	P	S	Fori	DN _P	O ₁	P ₁	S ₁	Fori		
100	100	70	250	60	190	140	140	110	85	14	14	15	4	50	40	110	150	18	4	25	85	115	14	4	N 25-125	
100	100	70	250	60	240	190	140	110	85	14	14	16	4	50	40	110	150	18	4	25	85	115	14	4	N 25-160	
100	100	70	250	60	240	190	140	110	85	14	14	16	4	50	40	110	150	18	4	25	85	115	14	4	N 25-200	
130	100	70	250	60	320	250	150	110	115	15	15	15	4	50	40	110	150	18	4	25	85	115	14	4	N 25-250	
100	100	70	250	60	190	140	150	110	85	15	15	13	4	50	50	125	165	18	4	32	100	140	18	4	N 32-125	
100	100	70	250	60	190	190	150	110	85	15	15	13	4	50	50	125	165	18	4	32	100	140	18	4	N 32-160	
100	100	70	250	60	190	190	150	110	85	15	15	13	4	50	50	125	165	18	4	32	100	140	18	4	N 32-200	
130	125	95	322,5	60	320	250	150	110	115	15	15	15	4	65	50	125	165	18	4	32	100	140	18	4	N 32-250	
100	100	70	250	60	210	160	150	110	85	15	15	13	4	50	65	145	185	18	4	50	125	165	18	4	N 40-125	
100	100	70	250	60	240	190	150	110	85	15	15	13	4	50	65	145	185	18	4	50	125	165	18	4	N 40-160	
100	100	70	250	60	265	212	150	110	85	15	15	13	4	50	65	145	185	18	4	40	110	150	18	4	N 40-200	
130	125	95	322,5	60	320	250	150	110	115	15	15	15	4	65	65	145	185	18	4	40	110	150	18	4	N 40-250	
130	125	95	322,5	60	345	280	150	110	115	15	15	15	4	65	65	145	185	18	4	40	110	150	18	4	N 40-315	
100	100	70	250	60	240	190	150	110	85	15	15	13	4	50	80	160	200	18	8	65	145	185	18	4	N 50-125	
100	100	70	250	60	265	212	150	110	85	15	15	13	4	50	80	160	200	18	8	65	145	185	18	4	N 50-160	
100	100	70	250	60	265	212	150	110	85	15	15	13	4	50	80	160	200	18	8	50	125	165	18	4	N 50-200	
130	125	95	322,5	60	320	250	150	110	115	15	15	15	4	65	80	160	200	18	8	50	125	165	18	4	N 50-250	
130	125	95	322,5	60	345	280	150	110	115	15	15	15	4	65	80	160	200	18	8	50	125	165	18	4	N 50-315	
100	125	95	250	60	280	212	150	110	85	15	15	15	4	65	100	180	220	18	8	80	160	200	18	8	N 65-125	
130	125	95	322,5	60	280	212	150	110	115	15	15	15	4	65	100	180	220	18	8	80	160	200	18	8	N 65-160	
130	125	95	322,5	60	320	250	150	110	115	15	15	15	4	65	100	180	220	18	8	65	145	185	18	8	N 65-200	
130	160	120	310	60	360	280	150	110	115	20	15	18	4	80	100	180	220	18	8	65	145	185	18	8	N 65-250	
160	160	120	310	60	400	315	150	110	145	20	15	18	4	80	100	180	220	18	8	65	145	185	18	8	N 65-315	
160	160	120	310	60	435	355	150	110	145	20	15	18	4	80	100	180	220	18	8	65	145	185	18	8	N 65-400	
130	125	95	310	60	320	250	150	110	115	20	15	18	4	65	125	180	250	18	8	80	160	200	18	8	N 80-160	
130	125	95	310	60	345	280	150	110	115	20	15	18	4	65	125	210	250	18	8	80	160	200	18	8	N 80-200	
130	160	120	310	60	400	315	150	110	115	20	15	18	4	80	125	210	250	18	8	80	160	200	18	8	N 80-250	
160	160	120	310	60	400	315	150	110	145	20	15	18	4	80	125	210	250	18	8	80	160	200	18	8	N 80-315	
160	160	120	310	60	435	355	150	110	145	20	15	18	4	80	125	210	250	18	8	80	160	200	18	8	N 80-400	
130	160	120	310	60	360	280	150	110	115	20	15	18	4	80	125	210	250	18	8	100	180	220	18	8	N 100-200	
160	160	120	310	60	400	315	150	110	145	20	15	18	4	80	125	210	250	18	8	100	180	220	18	8	N 100-250	
160	160	120	310	60	400	315	150	110	145	20	15	18	4	80	125	210	250	18	8	100	180	220	18	8	N 100-315	
160	160	120	310	60	500	400	150	110	145	23	15	20	4	100	125	210	250	18	8	100	180	220	18	8	N 100-400	
130	160	120	310	60	360	280	150	110	115	23	15	20	4	80	150	240	285	22	8	125	210	250	18	8	N 125-160	
130	160	120	310	60	400	315	150	110	115	23	15	20	4	80	150	240	285	22	8	125	210	250	18	8	N 125-200	
160	160	120	310	60	400	315	150	110	145	23	15	20	4	80	150	240	285	22	8	125	210	250	18	8	N 125-250	
160	200	150	295	60	500	400	150	110	145	23	15	20	4	100	150	240	285	22	8	125	210	250	18	8	N 125-315	
160	200	150	295	60	500	400	150	110	145	23	15	20	6	100	150	240	285	22	8	125	210	250	18	8	N 125-400	
170	200	150	295	60	500	400	150	110	145	23	19	20	6	100	200	295	340	22	12	150	240	285	22	8	N 150-250	
170	200	150	425	55	550	450	150	110	150	23	19	20	6	100	200	295	340	22	12	150	240	285	22	8	N 150-315	
170	200	150	425	55	550	450	150	110	150	23	19	20	6	100	200	295	340	22	12	150	240	285	22	8	N 150-400	
175	200	150	430	55	550	450	150	110	155	26	19	25	6	100	250	355	405	26	12	200	295	340	22	12	N 200-250	
175	200	150	430	55	550	450	150	110	155	26	19	25	6	100	250	355	405	26	12	200	295	340	22	12	N 200-315	
175	200	190	430	55	640	500	150	110	155	26	19	25	6	100	250	355	405	26	12	200	295	340	22	12	N 200-400	
170	250	190	425	55	700	560	150	110	150	26	19	25	6	140	300	410	460	26	12	250	355	405	26	12	N 250-315	
195	250	190	470	55	690	560	150	110	180	26	19	25	6	125	300	410	460	26	12	250	355	405	26	12	N 250-400	
195	360	280	475	55	900	750	150	110	180	26	23	30	6	150	350	470	520	26	12	300	410	460	26	12	N 300-315	
195	360	280	500	55	900	750	150	110	180	26	23	30	6	125	350	470	520	26	12	300	410	460	26	12	N 300-400	

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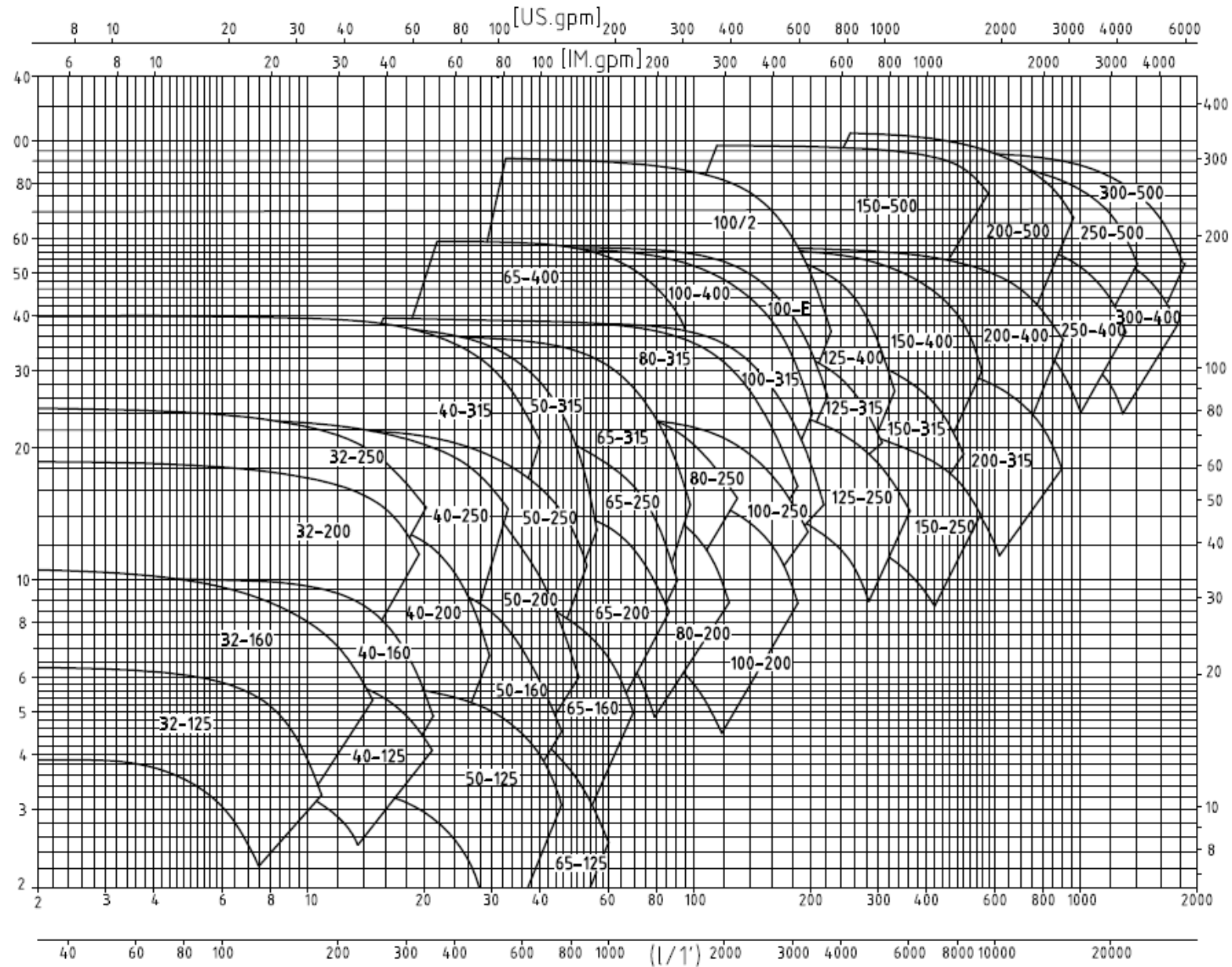
OVERALL SIZES

Modello Model	Dimensioni in mm (non impegnative) – Sizes in mm (approximate)																
	Pompa – Pump							Albero - Shaft				Spazio per lo smontaggio	Attacchi - Connections				
	L	a	b	c ₁	c ₂	h ₁	h ₂	D	l	e	f		A	B	C	D	E
N 25-125	465	80	385	90	95	112	140	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 25-160	465	80	385	108	110	132	160	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 25-200	465	80	385	128	133	160	180	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 25-250	465	100	385	152	152	180	225	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 32-125	465	80	385	99	106	112	140	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 32-160	465	80	385	121	121	132	160	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 32-200	465	80	385	139	139	160	180	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 32-250	600	100	500	166	166	180	225	32	80	35,5	10	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 40-125	465	80	385	106	117	112	140	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 40-160	465	80	385	121	130	132	160	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 40-200	485	100	385	139	145	160	180	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 40-250	600	100	500	166	168	180	225	32	80	35,5	10	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 40-315	625	125	500	200	200	200	350	32	80	35,5	10	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 50-125	485	100	385	122	141	132	160	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 50-160	485	100	385	134	149	160	180	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 50-200	485	100	385	148	160	160	200	24	50	27	8	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 50-250	625	125	500	167	179	180	225	32	80	35,5	10	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 50-315	625	125	500	200	209	225	280	32	80	35,5	10	100	1/4"G	3/8"G	1/4"G	1/4"G	1/4"G
N 65-125	485	100	385	140	167	160	180	24	50	27	8	100	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 65-160	600	100	500	147	169	160	200	32	80	35,5	10	100	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 65-200	600	100	500	163	182	180	225	32	80	35,5	10	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 65-250	625	125	500	180	197	200	250	32	80	35,5	10	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 65-315	655	125	530	208	222	225	280	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 65-400	655	125	530	238	250	280	355	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 80-160	625	125	500	153	192	180	225	32	80	35,5	10	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 80-200	625	125	500	160	189	180	250	32	80	35,5	10	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 80-250	625	125	500	185	210	225	280	32	80	35,5	10	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 80-315	655	125	530	224	248	250	315	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 80-400	655	125	530	254	276	280	355	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 100-200	625	125	500	182	212	200	280	32	80	35,5	10	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 100-250	670	140	530	204	231	225	280	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 100-315	670	140	530	226	245	250	315	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 100-400	670	140	530	262	282	280	355	42	110	45,5	12	140	3/8"G	3/8"G	3/8"G	1/4"G	1/4"G
N 125-160	640	140	500	170	210	225	280	32	80	35,5	12	140	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 125-200	640	140	500	180	205	225	315	32	80	35,5	12	140	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 125-250	670	140	530	226	275	250	355	42	110	45,5	12	140	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 125-315	670	140	530	233	267	280	355	42	110	45,5	12	140	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 125-400	670	140	530	264	298	315	400	42	110	45,5	12	140	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 150-250	690	160	530	230	300	280	375	42	110	45,5	12	180	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 150-315	830	160	670	242	295	315	400	48	140	51,5	14	180	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 150-400	830	160	670	289	332	315	450	48	140	51,5	14	180	1/2"G	1/2"G	1/2"G	1/4"G	1/4"G
N 200-250	730	200	530	234	327	355	450	42	110	45,5	12	200	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G
N 200-315	855	200	655	251	352	350	450	48	140	51,5	14	180	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G
N 200-400	885	180	705	310	376	350	525	48	140	51,5	14	180	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G
N 250-315	920	250	670	259	419	400	525	48	110	51,5	14	180	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G
N 250-400	1005	225	780	349	419	400	600	65	140	69	18	180	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G
N 300-315	1020	300	720	362	438	400	670	55	140	59	16	240	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G
N 300-400	1115	325	790	390	468	400	640	65	140	69	18	240	3/4"G	3/4"G	3/4"G	1/4"G	1/4"G



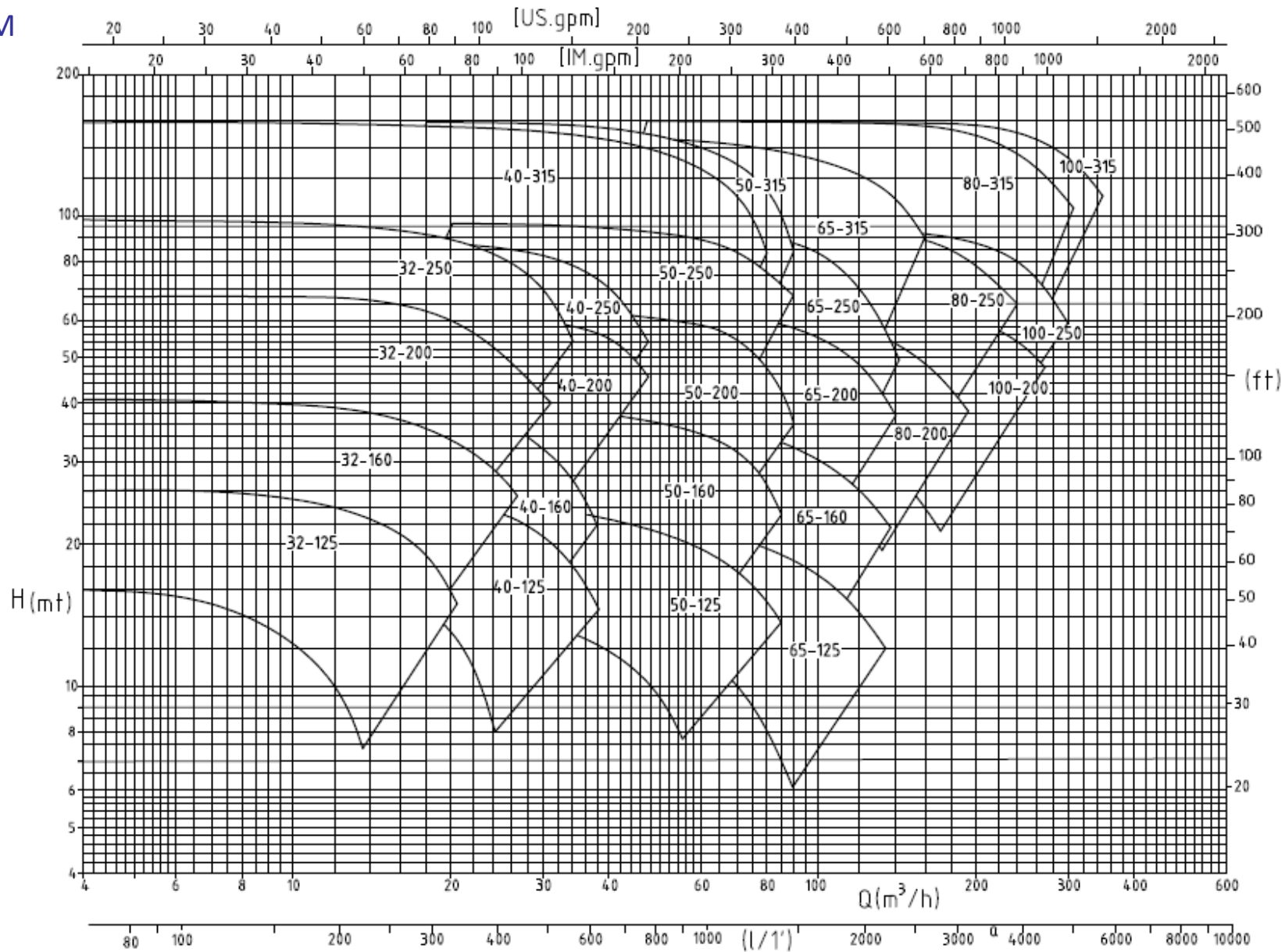
N SERIES—BIRAGHI POMPE 1906

1450 RPM



N SERIES—BIRAGHI POMPE 1906

2900 RPM



Biraghi Pompe 1906 Plants



NIGERIA



UAE



ITALY



Biraghi
POMPE1906

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