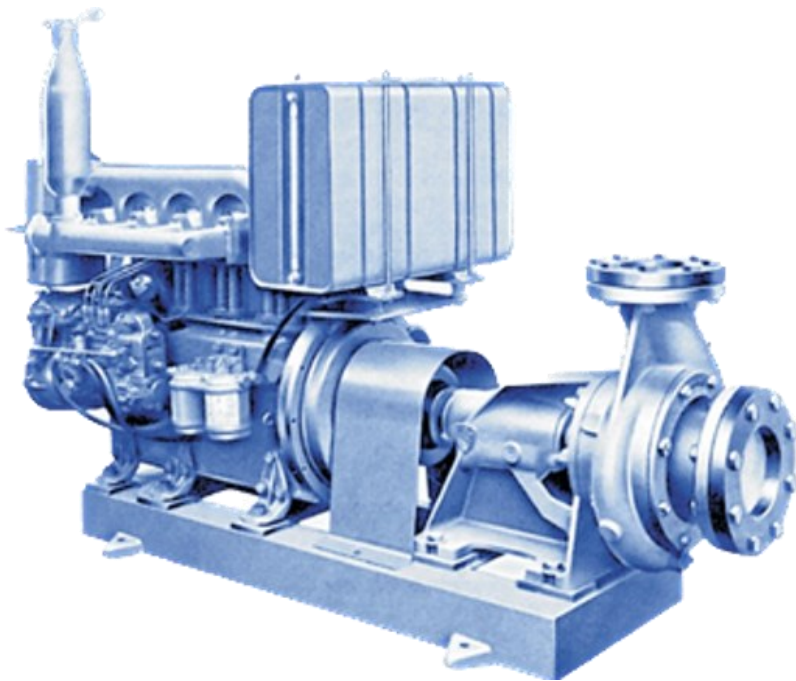


BROCHURE K SERIES

BIRAGHI POMPE 1906



- *ITALIAN QUALITY*
- *SINCE 1906*

Centrifugal Process Pumps

2025



K SERIES—BIRAGHI POMPE 1906

K PROCESS PUMP

The highly functional construction allows different executions with respect to the required applications and grants practical usefulness. Accurate design and modern calculation procedures allowed us to obtain efficiencies which are the best one can realize today.

These pumps have one impeller only, except some models, provided with two impellers (K 40/2, -50/2, 65/2, 80/2) which are cantilever mounted on the shaft.

The supporting is realized with a strong chair-type support, outside casing, where ball bearings at suitable distance are located.

The transformation of kinetic energy into pressure the impeller outlet in the spiral while in pumps provided with two impellers this transformation takes place in a double volute of pump casing; in the spiral the first stage, and in the spiral the second stage.

Nozzles are flanged UNI-PN 10 (nominal pressure); the suction is always axial while the discharge port is conical and upward oriented; it may also be oriented in different positions according to the diagram on the following page.

Capacity	to 330 m ³ /hr
Head	to 95 m
Max working pressure	to 6 bar
Temperature	to 140 C°



impellers (K 40/2, -50/2,

are two journal and thrust

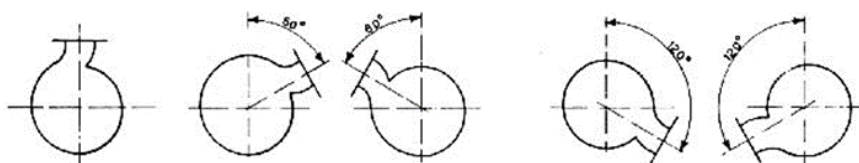
double volute of pump casing;
diffuser with directional blades

while, normally, the discharge
positions according to the

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Other types of seals on shaft are foreseen (see "Special Executions"). The drive can be direct through flexible coupling by electric motor or by endothermic engine (2 or 4 strokes, Diesel, etc) or through a cantiliver pulley with 'V' belts.

POSITIONS IN WHICH THE DISCHARGE PORT CAN BE ORIENTED



SPECIAL EXECUTION:

- ⇒ Mechanical seal devices (instead of traditional stuffing boxes) in different executions according to the characteristics and service temperature of the liquid to be pumped
- ⇒ Stuffing box provided with cooling chamber with cold water circulation, for liquid temperatures exceeding 105°C.
- ⇒ Packing gland washing, to convey turbid liquids and liquids with small percentages of suspended abrasive powder.
- ⇒ Mechanical seal washing, to convey liquids containin small quantities of suspended col loidal particles, or slightly dirty liquids.

SERVICE LIMITS:

(*) Values concerning standard pumps, construction in cast iron G25

TEMPERATURE:

from -15 to + 105 °C

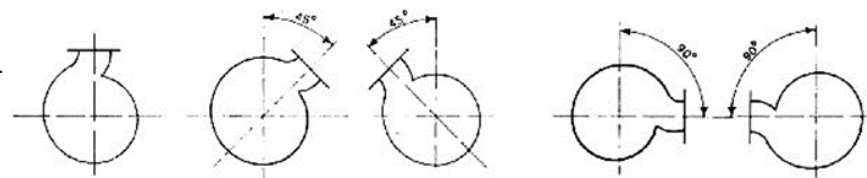
up to and over 140 °C with cooled stuffing box or special mechanical seal

REVOLUTION DIRECTION:

clock wise direction, looking from driving end.

REVOLUTION SPEED:

Up to 3500 R.P.M.



K SERIES—BIRAGHI POMPE 1906

OVERALL SIZE

modello model	Dimensioni in mm (non impegnative) - Sizes in mm (not engaging)																								Flangia aspirante Suction flange				Flangia premonte Delivery flange				Peso Weight c.a. Kg.				
	Pompa - Pump							Piedi di appoggio - Feet							- Shaft				Attacchi - Connections																		
	L	a	b ₁	b ₂	h ₁	h ₂	h ₃	c	m ₁	m ₂	m ₃	m ₄	m ₅	n ₁	n ₂	r	s	d	l	e	f	A	B	C	D	E	F	DN _A	O	P	S	fori holes		DN _P	O ₁	P ₁	S ₁
K 40 A	475	95	93	102	112	155	105	70,5	103	160	225	60	60	180	150	13	15	18	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	50	125	165	18	4	40	110	150	18	4	30			
K 40 B	480	100	110	112	112	170	120	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	50	125	165	18	4	40	110	150	18	4	32			
K 40 C	535	110	135	138	160	200	160	76	126	190	280	85	95	230	200	18	19	24	60	27	8	"	"	"	"	1/4" G3/8" G	"	"	"	"	"	"	"	"	"	"	45
K 40 D	535	110	155	163	160	225	175	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	50	125	165	18	4	40	110	150	18	4	48			
K 40/2	600	175	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	50	125	165	18	4	40	110	150	18	4	62			
K 50 A	485	105	95	118	112	170	115	70,5	103	160	225	60	60	180	150	13	15	18	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	65	145	185	18	4	50	125	185	18	4	32			
K 50 B	480	100	117	133	112	175	140	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	65	145	185	18	4	50	125	185	18	4	35			
K 50 C	535	110	135	147	160	225	160	76	126	190	280	85	95	230	200	18	19	24	60	27	8	"	"	"	"	1/4" G3/8" G	"	"	"	"	"	"	"	"	"	"	50
K 50 D	535	110	159	173	160	250	185	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	65	145	185	18	4	50	125	185	18	4	53			
K 50/2	600	175	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	65	145	185	18	4	50	125	185	18	4	65			
K 65 A	485	105	117	138	112	180	135	70,5	103	160	225	60	60	180	150	13	15	18	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	80	160	200	18	4	65	145	185	18	4	35			
K 65 B	480	100	126	147	112	200	145	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	80	160	200	18	4	65	145	185	18	4	37			
K 65 C	555	125	139	159	160	225	165	76	126	190	280	85	95	230	200	18	19	24	60	27	8	"	"	"	"	1/4" G3/8" G	"	"	"	"	"	"	"	"	"	"	53
K 65 D	555	125	177	182	160	250	195	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	80	160	200	18	4	65	145	185	18	4	60			
K 65/2	605	175	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	80	160	200	18	4	65	145	185	18	4	70			
K 80 A	490	110	136	164	112	225	160	70,5	103	160	225	60	60	180	150	13	15	18	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	100	180	220	18	8	80	160	200	18	4	44			
K 80 B	555	125	154	178	160	250	185	76	126	190	280	85	95	230	200	18	19	24	60	27	8	"	"	"	"	1/4" G3/8" G	"	"	"	"	"	"	"	"	"	"	60
K 80 C	604	125	177	202	200	300	190	69	119	240	335	95	100	260	230	20	23	28	60	31	8	"	"	"	"	1/4" G1/4" G	"	"	"	"	"	"	"	"	"	"	73
K 80 D	604	125	209	229	200	350	235	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	100	180	220	18	8	80	160	200	18	4	88			
K 80/2	689	210	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	100	180	220	18	8	80	160	200	18	4	108			
K 100 A	565	130	161	189	160	275	170	76	126	190	280	85	95	230	200	18	19	24	60	27	8	3/8" G3/8" G3/8" G1/4" G3/8" G	-	125	210	250	18	8	100	180	220	18	8	62			
K 100 B	639	155	161	200	200	275	180	69	119	240	335	95	100	260	230	20	23	28	60	31	8	"	"	"	"	1/4" G3/8" G	"	"	"	"	"	"	"	"	"	"	75
K 100 C	604	120	188	216	200	300	200	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	125	210	250	18	8	100	180	220	18	8	80			
K 100 D	639	155	218	247	200	375	250	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	125	210	250	18	8	100	180	220	18	8	100			
K 125 A	639	160	178	227	200	300	205	69	119	240	335	95	100	260	230	20	23	28	60	31	8	3/8" G3/8" G3/8" G1/4" G3/8" G	-	150	240	285	22	8	125	210	250	18	8	85			
K 125 B	639	160	202	245	200	350	225	"	"	"	"	"	"	"	"	"	"	"	40	20,5	6	3/8" G3/8" G3/8" G1/4" G3/8" G	-	150	240	285	22	8	125	210	250	18	8	96			

CONSTRUCTION MATERIALS

	STANDARD	b ₁	b ₂	x ₅	g ₅	a	g ₅
Corpo pompa Pump case	Ghisa G25 Cast iron G25	Bronzo BZN7 Bronze BZN7	Bronzo B10 Bronze B10	AISI 316 AISI 316	Ghisa GS400/12 Cast. i. GS400/12	Acc. Fusso Stain. still	Ghisa al Ni Ni cast iron
Coperchio Cover	Ghisa G25 Cast iron G25	Bronzo BZN7 Bronze BZN7	Bronzo B10 Bronze B10	AISI 316 AISI 316	Ghisa GS400/12 Cast. i. GS400/12	Acc. Fusso Stain. still	Ghisa al Ni Ni cast iron
Diffusore Diffuser	Ghisa G25 Cast iron G25	Bronzo BZN7 Bronze BZN7	Bronzo B10 Bronze B10	AISI 316 AISI 316	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25	Ghisa al Ni Ni cast iron
Girante Impeller	Ghisa G25 Cast iron G25	Bronzo BZN7 Bronze BZN7	Bronzo B10 Bronze B10	AISI 316 AISI 316	Ghisa G25 Cast iron G25	Ghisa al Ni Ni cast iron	Ghisa al Ni Ni cast iron
Anelli usura Wear rings	Ghisa G25 Cast iron G25	Bronzo BZN7 Bronze BZN7	Bronzo B10 Bronze B10	AISI 316 AISI 316	Ghisa G25 Cast iron G25	Ghisa al Ni Ni cast iron	Ghisa al Ni Ni cast iron
Supporto Support	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25	Ghisa G25 Cast iron G25
Albero T.B. Shaft T.B.	Acc. 38NCD4 Stain. still 38NCD4	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 316 Stain. still AISI 316	Acc. 38NCD4 Stain. still 38NCD4	Acc. 38NCD4 Stain. still 38NCD4	Acc. AISI 316 Stain. still AISI 316
Albero T.M. Shaft T.M.	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 316 Stain. still AISI 316	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 431 Stain. still AISI 431	Acc. AISI 316 Stain. still AISI 316

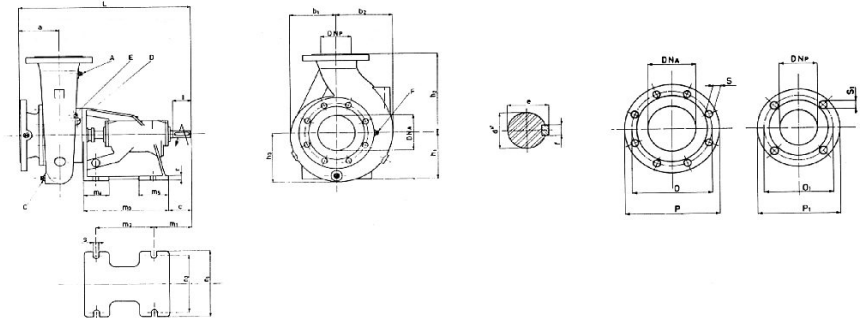
⇒ Pressure-gauge connection

⇒ Drain

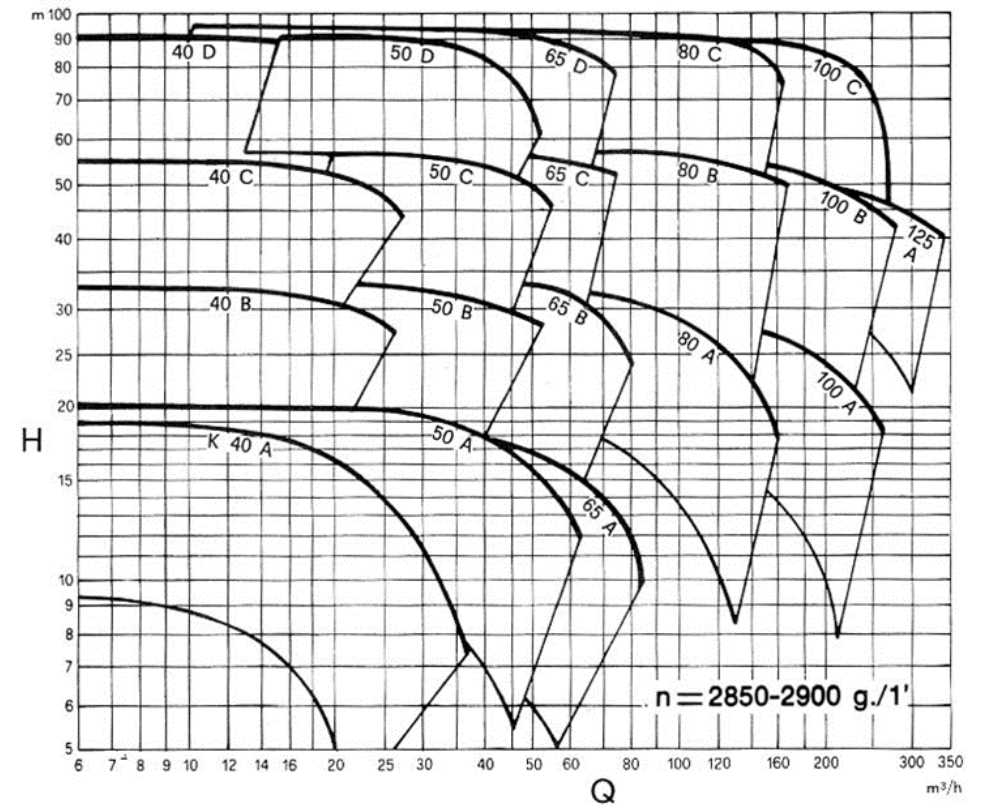
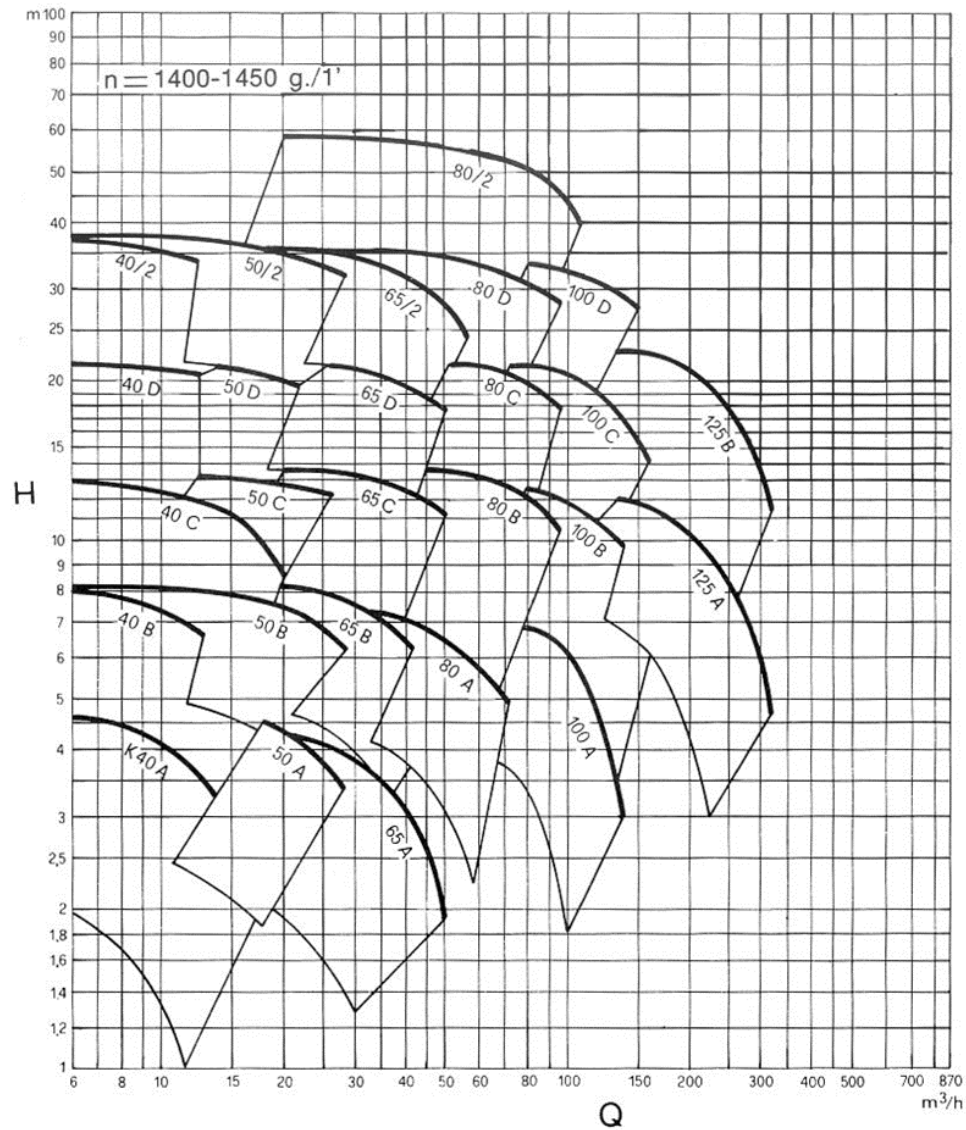
⇒ Two cooling connections

⇒ Sealing liquid connection

⇒ Vacuum-gauge connection



K SERIES—BIRAGHI POMPE 1906



Biraghi Pompe 1906 Plants



NIGERIA



UAE



ITALY



Biraghi
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