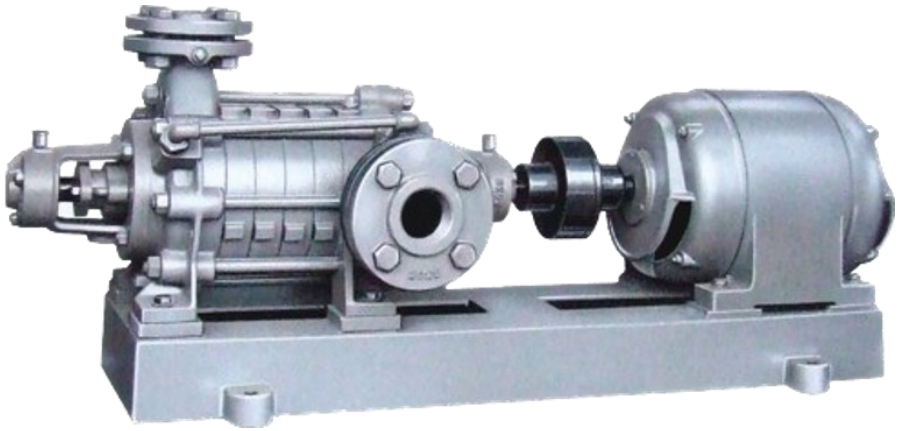
BROCHURE KP SERIES

BIRAGHI POMPE 1906



- *ITALIAN QUALITY*
- *SINCE 1906*

Multistage Centrifugal Process Pumps

2025

KP SERIES—BIRAGHI POMPE 1906

KP PROCESS PUMP

The KP series consist of centrifugal multistage units, hydraulically balanced, of standard construction and with removal components. Efficiency of this series is the best available today.

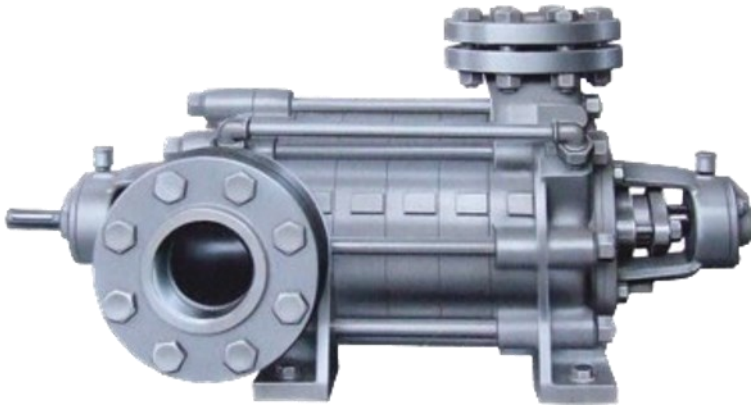
Removal of the series connected multiple stage takes place along a plane perpendicular to the pump axis and connection is carried out by stay boits outside pump casing.

Impeller and diffusers are interchangeable, the shaft is protected by sleeves and by the impeller hubs and it is supported on both sides by heavy duty grease lubricated roller bearings.

The axial thrust is hydraulically balanced by an axial choke sleeve behind the last impeller and by thrust disk and counterdisk. The balancing water flowing out of the disk is led to the suction through the suitable return flue outside the pump casing: but if water flows to the header tank or anyway outside, avoids in this way overheating phenomena, when the pump has null or very small capacity.

Suitable design criteria as the selection of the most suitable number of impeller blades as well as the relative development angles, allowed us to obtain stable characteristic curves over the whole operating range of this series of pumps.

Head increase, from the best efficiency value ies from a minimum of 20% to a maximum of der to avoid pulsations in steam boiler feeding ate in parallel in such plant.



to the one corresponding to null capacity, var- 40%. This is a very important condition in or- and it is an essential condition if pumps oper-

KP SERIES—BIRAGHI POMPE 1906

Nozzles have round flanges according to UNI PN 40 for pumps model KP 25-40-50 and 70 and flat flanges according to UNI PN 64 for pumps model KP 80 and 100. The discharge nozzle can be lateral and turned on right or left, or vertical like the discharge nozzle.

REVOLUTION DIRECTION:

Clock wise direction, looking from driving end.

Capacitiy	to 80 m^3 /hr
Head	to 650 m
Max working pressure	to 64 bar
Temperature	to 180 C°

APPLICATION

- ⇒ To generally transfer water up to 105 C:
- ⇒ Aqueduct plants
- ⇒ Hydraulic press control
- ⇒ Car washing plants
- ⇒ Steam boiler feeding at high pressure values (Up to 180 C with pumps in RP or RPgs executions)
- ⇒ Water lifting from mines
- ⇒ Fire fighting system
- ⇒ Irrigation
- ⇒ Condensate extraction
- ⇒ Liquid Gas and any other hydrocarbons
- ⇒ Hot Oils conveying

And many other uses...

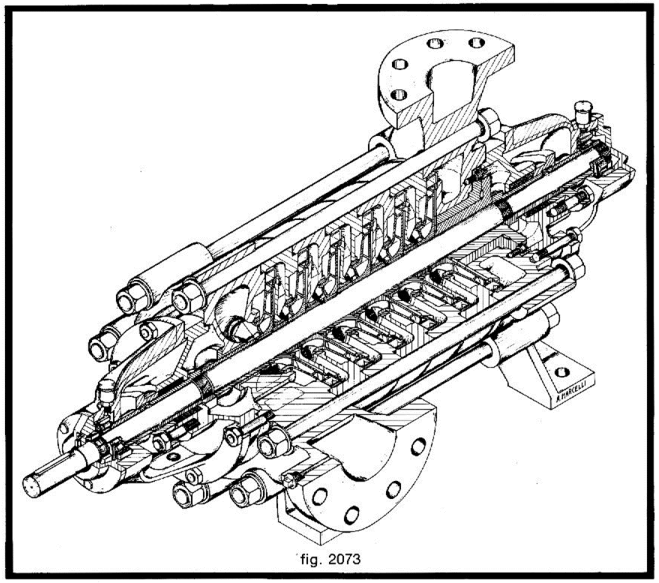


fig. 2073

SPECIAL EXECUTION

⇒ RP – Stuffing boxes fitted with cooling chamber with cold water circulation

⇒ OT – Mechanical seal units (replacing the usual stuffing boxes) in different executions according to the nature of the conveyed liquid and its service temperature

⇒ BR – All parts contacting the liquid in bronze alloy – shaft in stainless steel with acid resistant bronze plating

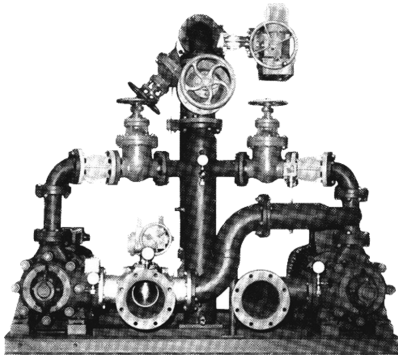
⇒ BRA – All parts contacting the liquid in acid resistant bronze – shaft in stainless steel with acid resistantbronze planting

⇒ G1 – All parts contacting the liquid in cast iron

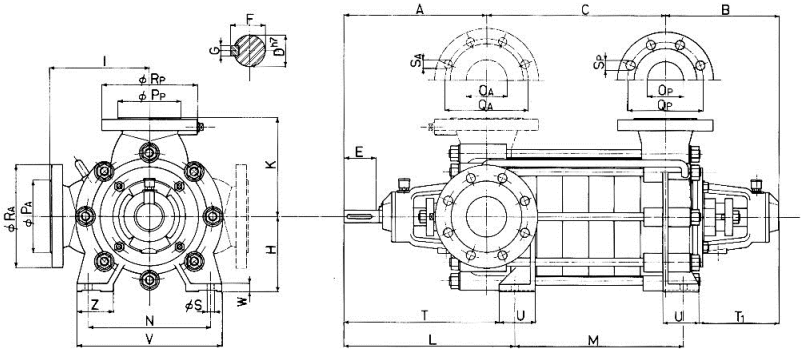
⇒ X – All parts contacting the liquid in stainless steel – shaft in stainless steel

⇒ GS – Suction casting, discharge casing and intermediate casing in spheroidal cast iron – Impeller in brass or cast iron – shaft in hardened and tempered coated steel UNI 38NCD4

⇒ GN – Suction casing, discharge casing and intermediate casing in Nickel cast iron – impellers in brass or Nickel cast iron – shaft in hardened and tempered coated steel UNI 38NCD4 or in stainless steel.



OVERALL SIZES



Flange: UNI 2239/2229-PN 40 e UNI 2243-PN 64 piane - *Flanges: UNI 2239/2229-PN 40 and UNI 2243-PN 64 flat*

modello *model*	Dimensioni in mm (non impegnative) - *Sizes in mm (not engaging)*																					
	A	B	Quote C e M - *Sizes C and M*	Giranti N. - *Impellers N.*														D	E	F	G	H	K
				2	3	4	5	6	7	8	9	10	11	12	13	14	15						
KP 25	197	165	C	–	105	133	161	189	217	245	273	301	329	357	385	413	441	16	40	18	5	115	150
			M	–	100	128	156	184	212	240	268	296	324	352	380	408	436						
KP 40	234	197	C	–	–	167	202	237	272	307	342	377	412	447	482	517	–	18	40	20,5	6	125	180
			M	–	–	171	206	241	276	311	346	381	416	451	486	521	–						
KP 50	256	221	C	–	–	200	240	280	320	360	400	440	480	520	560	–	–	22	50	24,5	6	135	185
			M	–	–	200	240	280	320	360	400	440	480	520	560	–	–						
KP 70	276	215	C	–	195	245	295	345	395	445	495	545	595	–	–	–	–	24	60	27	8	140	190
			M	–	176	226	276	326	376	426	476	526	576	–	–	–	–						
KP 80	373	282	C	175	235	295	355	415	475	535	595	655	715	775	–	–	–	32	80	35,5	10	180	250
			M	155	215	275	335	395	455	515	575	635	695	755	–	–	–						
KP 100	400	303	C	210	280	350	420	490	560	630	–	–	–	–	–	–	–	38	110	41,5	10	230	320
			M	180	250	320	390	460	530	600	–	–	–	–	–	–	–						

modello *model*	Dimensioni in mm (non impegnative) - *Sizes in mm (not engaging)*																									
	I	L	N	Flangia aspirante *Suction flange*						Flangia premente *Discharge flange*						S	T	T_1	U	V	W	Z	Esecuzione RP *RP execution*				
				O_A	P_A	Q_A	R_A	S_A	fori *holes*	O_P	P_P	Q_P	R_P	S_P	fori *holes*								A	B	L	T	T_1
KP 25	150	228	160	32	78	100	140	18	4	25	68	85	115	14	4	11,5	208	119	50	220	10	50	217	185	248	228	139
KP 40	180	261	200	50	102	125	165	18	4	40	88	110	150	18	4	11,5	236	141	60	240	12	60	259	222	286	261	166
KP 50	185	293,5	215	70	122	145	185	18	8	50	102	125	165	18	4	14	271	161	65	260	14	65	281	246	318,5	296	186
KP 70	190	330	235	80	138	160	200	18	8	70	122	145	185	18	8	14	300	150	70	280	15	70	301	240	355	325	175
KP 80	250	433	300	100	–	200	250	25	8	80	–	170	215	22	8	18	403	212	80	360	20	80	373	282	433	403	212
KP 100	320	483	380	150	–	250	300	25	8	100	–	200	250	25	8	25	443	210	100	460	25	100	400	303	483	443	210

N. 207/1
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