



**NIKKISO EIKO
PUMPIA-LAND**



NIKKISO MAGPON[®]

MAGNET DRIVE CENTRIFUGAL PUMP



NIKKISO EIKO



CP05/CP08



CH08



Noryl made, high head and high temperature type. Noryl material is optionally available for other small size model depending on order lot size.

CW05



This pump is a dual pump head type, small pump head are compactly mounted on both sides of motor. This design will be optionally available for other model depending on order lot size.

CP10



CP20/CP30



CP40



• CF10

Stainless Steel head model



FREE FROM LEAKAGE and CORROSION

NIKKISO MAGPON® is a centrifugal pump with completely no leakage, applying permanent magnet coupling with anti-corrosive materials. Most suitable pump in circulation and transferring dangerous liquid such as Toxic liquid, Corrosives, Inflammables, Radio active liquid etc. Safely and to install in a space or system which does not permit any leakages.

■ APPLICATIONS

- * Circulation, agitation and transferring of corrosive chemicals.
- * Automatic photo developing machine, X-ray film processors.
- * Ion analyzer, Gas analyzer, Constant temperature bath.
- * Artificial kidney equipment and other Medical machines.
- * Automatic venders, Ice making machine, Unit cooler and other Food machinery
- * Surface treatment such as Plating equipment, Filtering apparatus, Dyeing equipment etc.
- * Water & Waste water treatment.
- * Laboratory & Pilot plant.
- * Solar heating system.

■ OPERATING CONDITIONS

- * **Specific gravity** : below 1.3
- * **Viscosity** : below 30cP
- * **Temperature** : 0~80°C (PVDF, Noryl: 0~90°C)
- * **Followings can not used**
 - Liquids containing Iron or Nickel powder, etc.
 - Liquids containing slurry.
 - Liquids which may corrode liquid end materials.

■ SPECIFICATIONS (50Hz/60Hz)

Model	Port (mm) Suc/Dis	Max. capacity (L/min)	Max. total head (m)	Std. capacity (m-L/min)	Motor type	Motor output (W)	Power supply	Weight (kg) *4)
CP05☆		8/9	1.0/1.4	0.8-2.8/0.8-5	Shaded pole 1φ	3	1 φ 100V, 110V, 115V, 220 ~240V	1.0
CP08☆	φ14/φ14	11/12	1.5/2.1	1-5/1-8		6		1.0
CP10☆		14/17	2.4/3.4	1.5-6.5/2.2-8	Capacitor run 1φ	15		2.0
CP20☆	φ18/φ18	24/29	2.1/3.0	1.5-10/2.0-14		30		2.4
CP30☆		32/38	3.1/4.4	2-18/2.5-22		30		2.4
CP40☆	φ20/φ20	40/48	4.1/5.8	2.5-22/3.6-26		60	3 φ 200V/ 220V, 380V, 440V	3.6
CP50	φ26/φ26	70/80	5.0/7.0	4-30/5-40	*1) Drip-proof and TEFC special flange motor, 1φ/3φ	200		9.9 (0.2)
CP60		90/110	8.0/11.5	6.5-40/8.5-50		200		10 (2.1)
CP70	*3) 40A/40A flange	210/210	10/10	8-100/8-100	*2) TEFC, IEC B5 flange motor, 3φ	400		23 (14)
CP80		250/250	17/17	13-125/13-125		750		31 (15)
CW05☆	φ14/φ14	8/9	1.0/1.4	0.8-2.8/0.8-5	Shaded pole 1φ	6		1.5
CH08		7/8	2.1/2.8	1.5-3.5/2-4		6		1.0

*1) Without motor on request. *2) Without motor on request.

*3) JIS 10kg/cm² 40A, DIN 2565 NW40, ANSI Class 150 1½". *4) () is for without motor for CP50~80.

☆UL Recognized component on request.

MODEL CODE

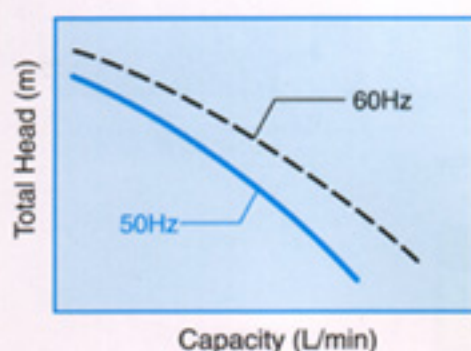
CP	40	PP	RV	24	SP
1	2	3	4	5	6

1	Pump series	CP: standard CW: double head CH: high head
2	Pump size	05, 08, 10, 20, 40, 50, 60, 70, 80
3	Material (Pump & Shaft)	PP: Polypropylene+Al ₂ O ₃ shaft PO: Noryl (Poly phenyleneoxide)+Al ₂ O ₃ shaft P2: PVDF (Poly fluorovinylidene)+SiC shaft 2S: PVDF (Poly fluorovinylidene)+Al ₂ O ₃ shaft
4	Material (O ring)	RV: FPM (Viton) RE: EPDM
5	Voltage	10: 100V, 11: 110V, 12: 115V, 20: 200/220V 24: 220~240V, 38: 380V, 44: 440V 00: W/o motor
6	Special function	SP: with special specification
	Motor type for CP50-CP80	SA: 1 ϕ , Drip-proof motor (CP50, CP60) TA: 3 ϕ , Drip-proof motor (CP50, CP60) TB: 3 ϕ , Totally enclosed motor TC: 3 ϕ , Outdoor type motor TD: 3 ϕ , Increased safety explosion-proof motor (CP70, CP80) TE: 3 ϕ , Flame-proof motor
	Model for CP05~CP40 CW05	UL: UL Recognized Component Voltage 12: 100~115V 24: 220~240V

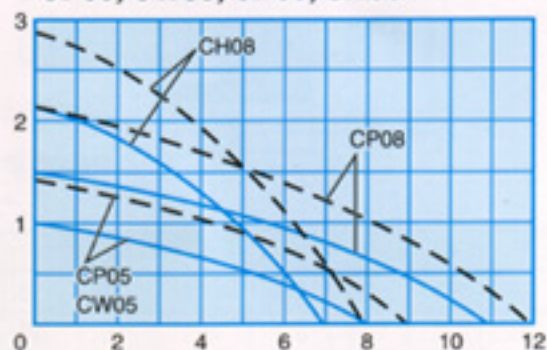
PERFORMANCE

Liquid: Clean water

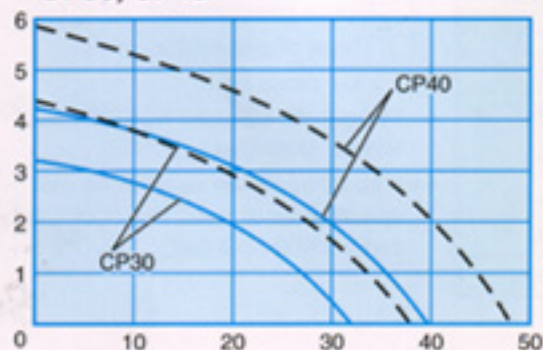
Temp.: Ambient (0~40°C)



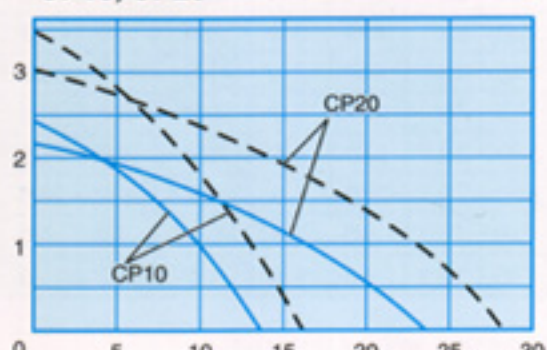
CP05, CW05, CP08, CH08



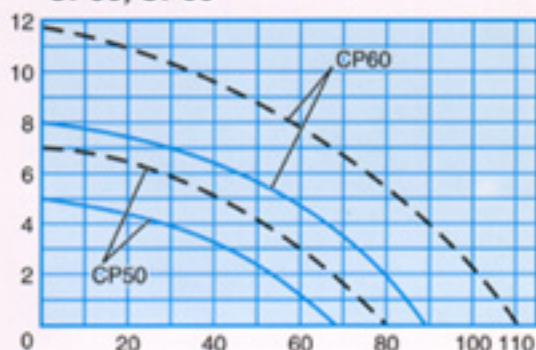
CP30, CP40



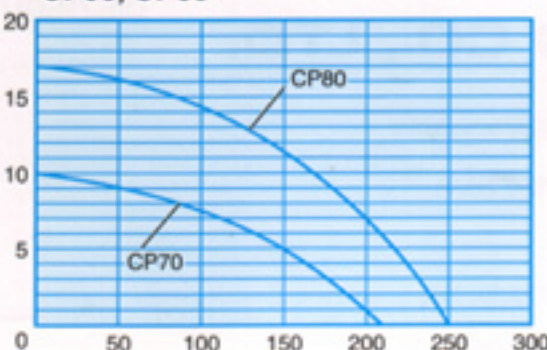
CP10, CP20



CP50, CP60



CP50, CP60



CP50/CP60



CP50/CP60



CP70



CP70



CP80



CP80

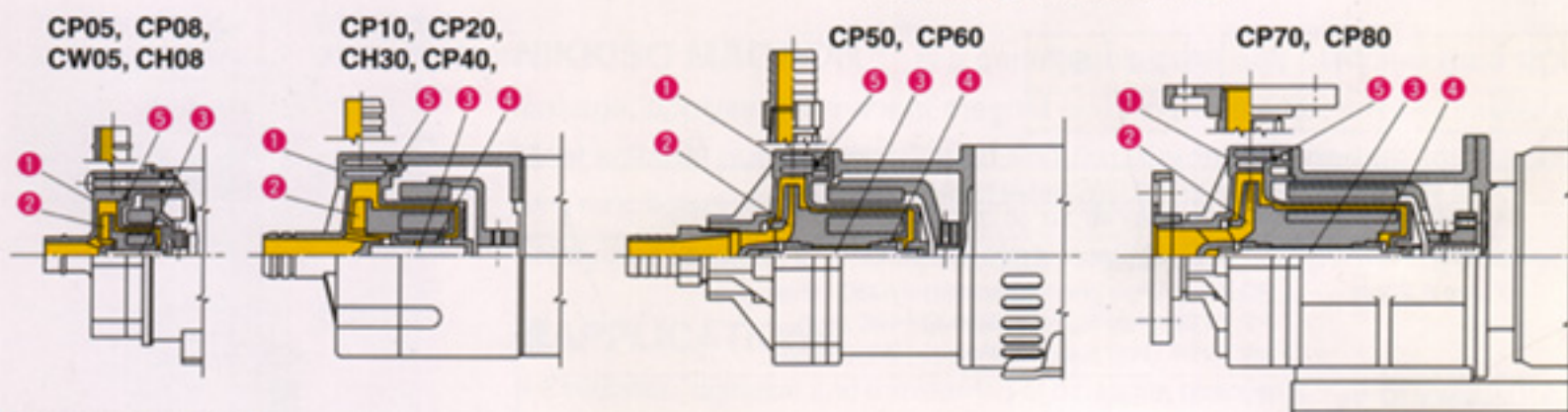


CONSTRUCTION MATERIAL

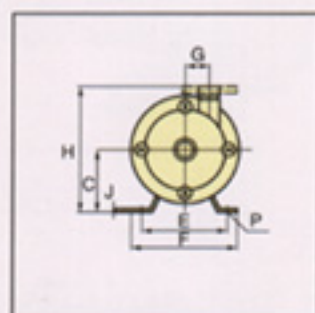
No.	Parts name	Std. material	Option *
1	Casing	PP (20% glass)	PVDF, Noryl
2	Impeller	PP (20% glass)	PVDF, Noryl
3	Shaft	AL2O3 ceramics	SiC ceramics
4	Bearing **	Rulon	
5	O ring	FPM (Viton)	EPDM

* Contact NIKKISO EIKO or Distributor.

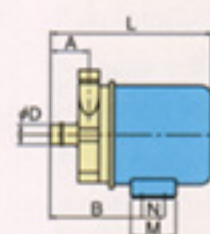
** No bearing for 05 and 08 models.



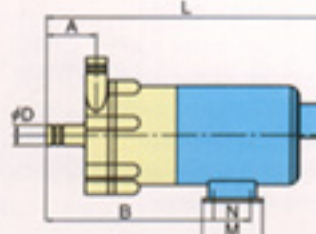
DIMENSIONS



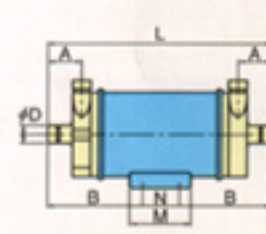
CP05, CP08, CH08



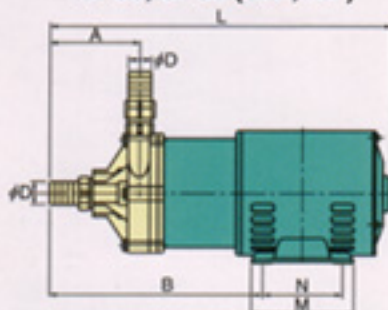
CP10, CP20, CP30, CP40



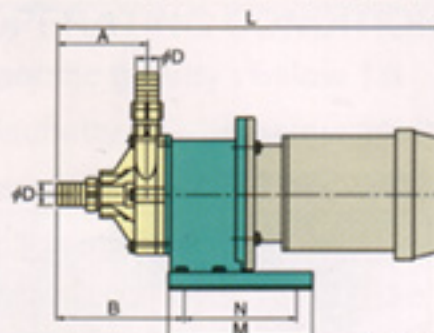
CW05



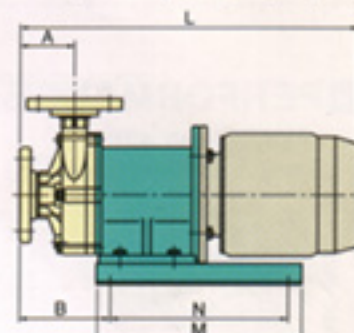
CP50, CP60 (SA*, TA*)



CP50, CP60 (TB*, TC, TE)



CP70, CP80 (TB*, TC, TD, TE)



* Mark: Standard Motor

Model	Key	A	B	C	D ϕ	E	F	G	H	J	L	M	N	P
CP05, 08		26.5	72	45	14	60	75	17	90	1.6	112	30	0	2- ϕ 6
CP10		35	117	55	14	70	85	24	115	2.3	195	50	30	4- ϕ 5.5
CP20		40	136	55	18	70	85	28	120	2.3	227	50	30	4- ϕ 5.5
CP30		40	136	55	18	70	85	28	120	2.3	227	50	30	4- ϕ 5.5
CP40		45	155.5	60	20	100	120	33	130	3.2	264	60	40	4-7 $\times$ 11
CP50 SA, TA		93	235	71	26	112	148	49	198	2.6	359 (374)	110	90	4-7 $\times$ 25
CP60 TB		93	135	100	26	120	150	49	227	3.2	407	150	118	4-9.5 $\times$ 24
CP70 TB		76	128	132	*	210	240	73	270	4.5	486	300	260	4- ϕ 12
CP80 TB		76	128	132	*	210	240	73	270	4.5	496	300	260	4- ϕ 12
CW05		26.5	78.5	45	14	85	95	17	90	1.6	187	50	30	4- ϕ 6
CH08		26.5	72	45	14	60	75	19.5	90	1.6	112	30	0	2- ϕ 6

Remark

○: Single phase motor

□: Three phase motor

< > 1 ϕ motor

* Flange, JIS 10kg/cm² 40A, DIN 2565 NW40, ANSI Class 150 11/2

** L for CP50-80 will be changed with motor specification or motor manufacturer, contact NIKKISO EIKO

We reserve the right to change the contents of this catalogue, without prior notice

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