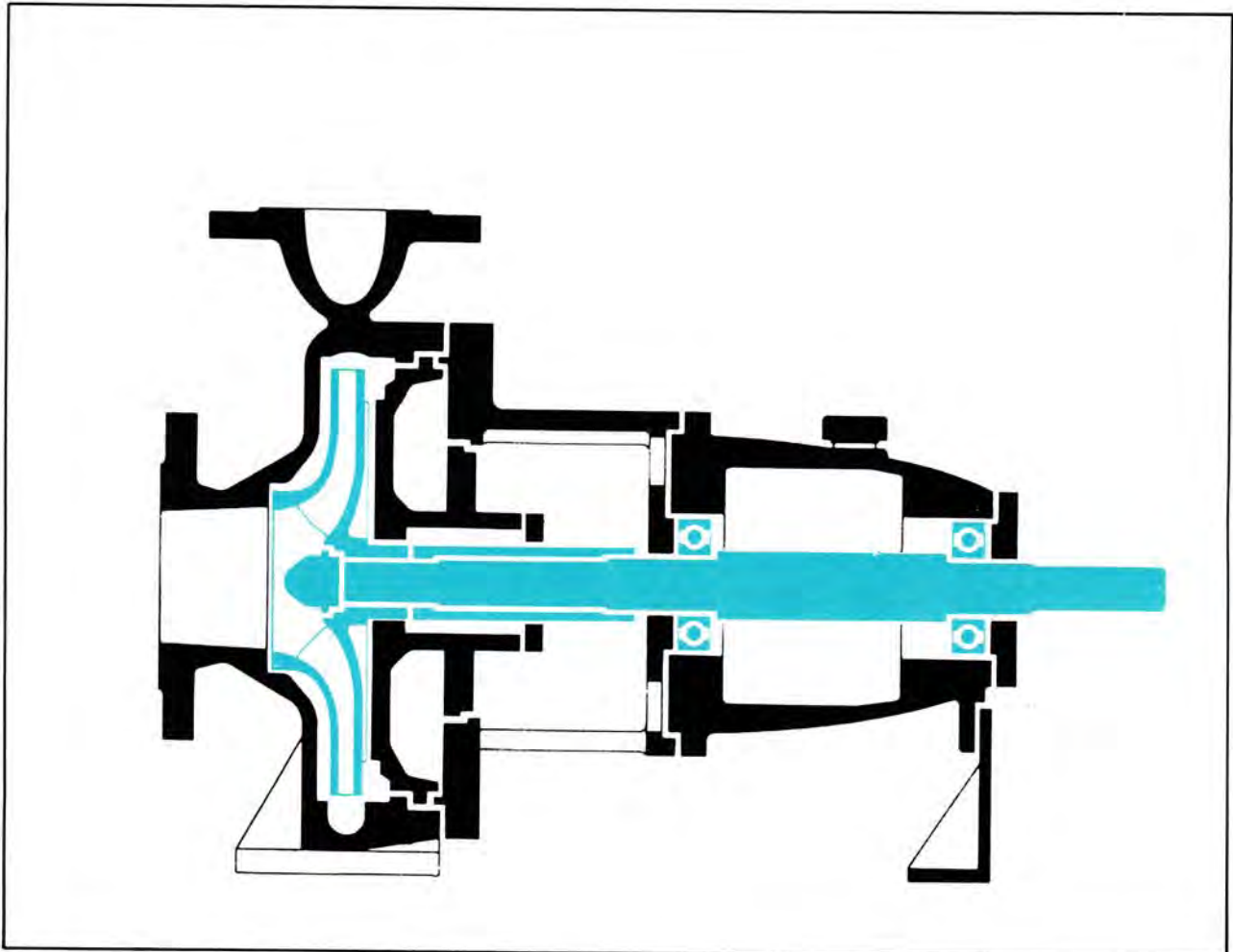


CPC

acc. to ISO2858

High Pressure Centrifugal End Suction Pump

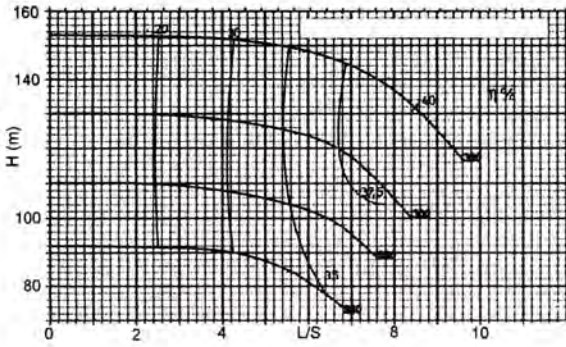
Capacities	up to 5.2 m ³ /min
Total heads	up to 153 m
Temperatures	-100 to + 220 ^o C
Pump discharge pressures	up to 16(25) bar
Sizes	DN. 40 to 100 mm



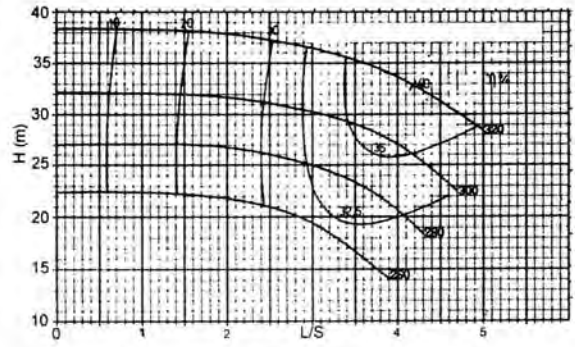
TORISHIMA PUMP

Selection Chart for CPC pump (50 Hz)

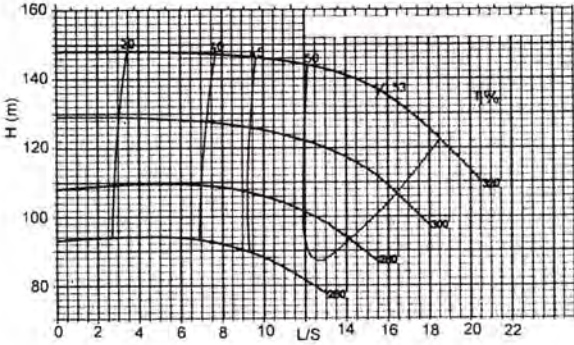
40-32 2 poles



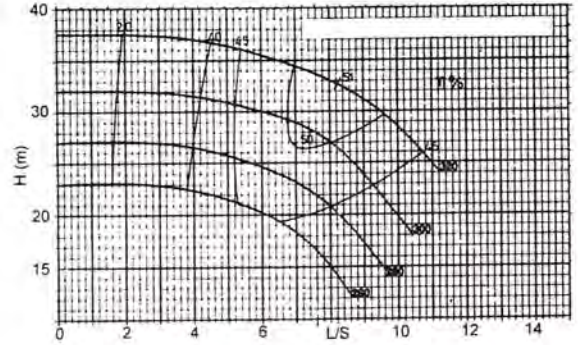
40-32 4poles



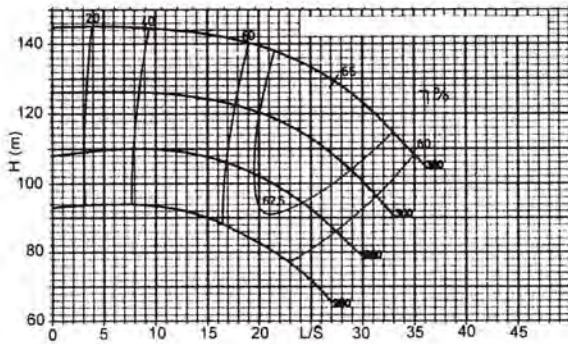
50-32 2 poles



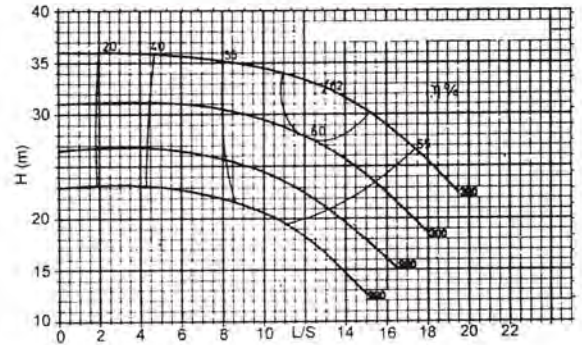
50-32 4poles



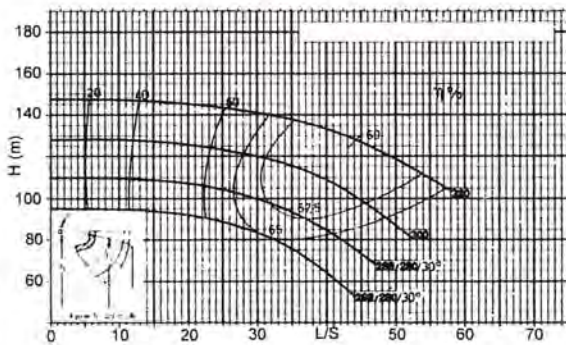
65-32 2 poles



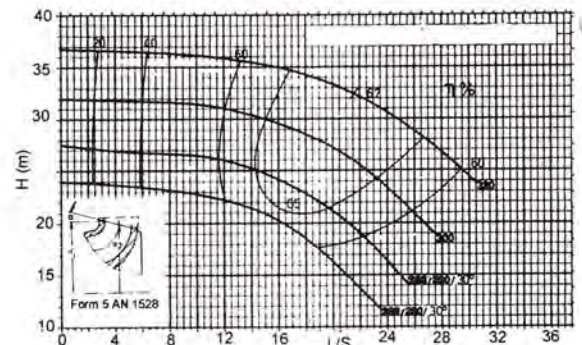
65-32 4poles



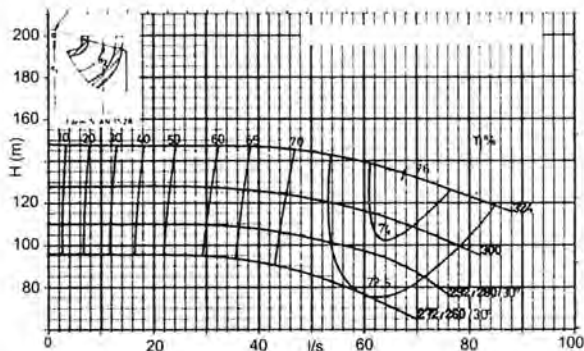
80-32 2poles



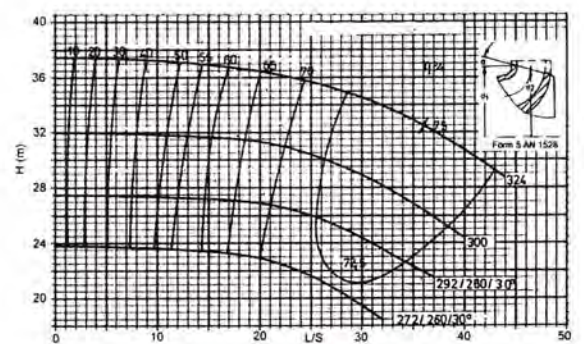
80-32 4poles



100-32 2 poles



100-32 4 poles



CPC have been developed as per ISO2858/DIN24256, specially to meet the requirements of various industrial utilities as well as to handle products employed in semi process organic and also fire fighting pumps, predominantly in application where pump of centrifugal end suction type is required to have higher delivery pressure than general end suction pump.

Materials

CPC-G Cast iron FC250 (impeller FCD 400)
CPC-S Ductile iron, FCD400
CPC-D Ni-resist

CPC-G pumps are available from stock, with very short deliveries.

The meccano-system which has proved successful in a variety of TORISHIMA pumps has been adopted once again for our CPC models. A carefully graded selection chart ensures that any operational requirement will be met with a very high efficiency and favourable NPSH-value.

All these pumps sizes are bolted onto a bearing housing comprising only 2 different sizes over the entire range, and this means that the shafts, shaft sleeves, the bearings and the bearing housings are identical and interchangeable for a large number of pumps sizes. Since the dimensions remain the same for each pump size, regardless of the construction material used, this results in a high degree of application, should the operating conditions or nature of the liquids pumped change, together with a minimum requirement of individual spare parts.

Design

Horizontal, single-stage.

Casing

One-piece volute casings, open towards the discharge end, with integral cast feet, end suction nozzle and top discharge nozzle pointing upwards. Center support also available. The suction nozzles are two sizes larger than the discharge nozzles.

The CPC pumps serve head-range suitable for 320 mm ID of rated impeller size.

Impeller

Closed radial impeller, hydraulically balanced by back vanes, which also relieve the pressure on the stuffing box almost entirely.

The impeller nut is provided with a threaded insert, which prevents any loosening of the nut. The impeller is sealed against the shaft by flat gasket.

Shaft Seals

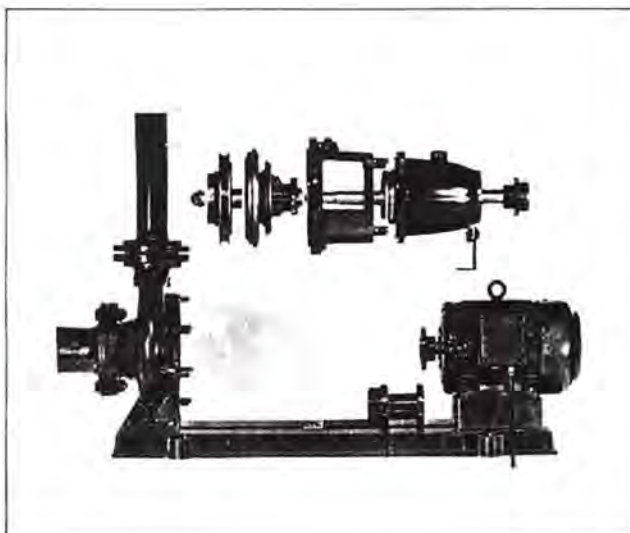
Soft-packed stuffing box with connections for sealing and flushing fluid. The stuffing box can be cooled for high temperature operation. Torishima mechanical seal as well as mechanical seals of various manufactures can be fitted. When single acting mechanical seals are used, the packed stuffing box can be replaced by a mechanical seal without any machining or adjustment to the stuffing box housing.

Shaft and Bearings

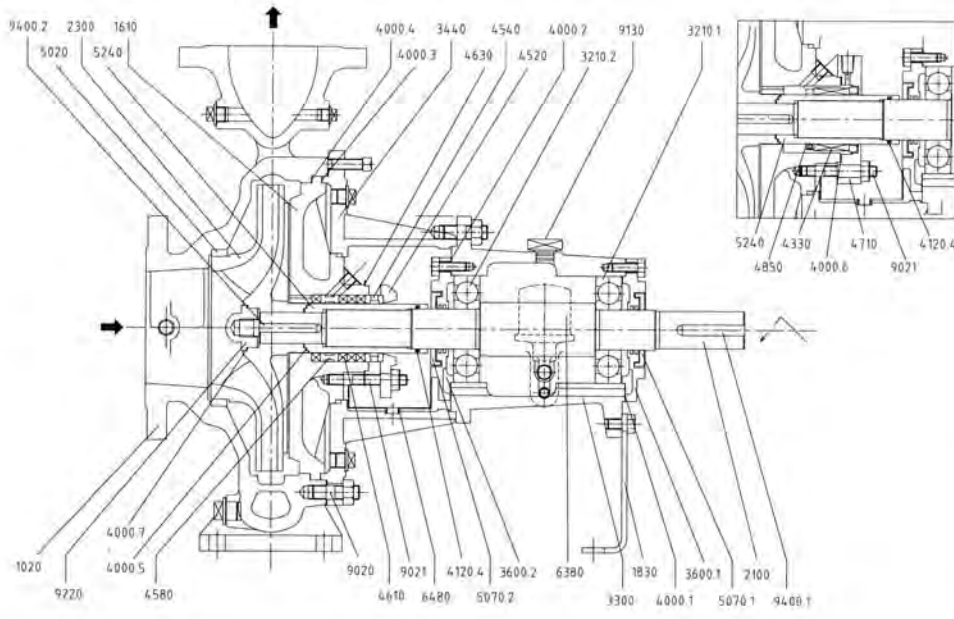
Standard bearing housing with a strong shaft (5 sizes for the whole series), oil-lubricated antifriction bearings.

In order to select the most suitable materials we require a precise analysis of the liquid pumped, including concentration, specific gravity, temperature, and an indication of any foreign substances present.

The volute casing, impeller, stuffing box housing and shaft sleeve are made from the materials listed above, whereas the bearing bracket lantern and the bearing housing are always of cast iron, and the pump shaft is of carbon steel. For applications involving very aggressive liquids, bearing bracket lantern can be made of the same material as the parts in contact with the liquid pumped.



Sectional Drawings & List of Components
Standard



PART No.	PART DESIGNATION	MATERIAL	Qty.
1000	VOLUTE CASING	FC 250	1
1010	CASING COVER	FC 250	1
1020	SUPPORT FOOT	SK 400	1
2100	SHAFT	S 45C	1
2300	IMPELLER	FC 250	1
3010.1	BALL BEARING	No. 64--	1
3010.2	BALL BEARING	No. 64--	1
3000	BEARING HOUSING	FC 250	1
3440	BRACKET	FC 250	1
3600.1	BEARING COVER	FC 200	1
3600.2	BEARING COVER	FC 200	1
4000.1	GASKET	Tonbo 1050	1
4000.2	GASKET	Tonbo 1050	1
4000.3	GASKET	Tonbo 1995	1
4000.4	GASKET	Tonbo 1995	1
4000.5	GASKET	Tonbo 1995	1
4000.6	GASKET	Tonbo 1995	1
4000.7	GASKET	Tonbo 1995	1
4120.1	BRING	W10N	1
4250	MECHANICAL SEAL		1
4520	GLAND	FC 200	1
4540	GLAND BUSHING	FC 200	1
4580	LANTERN RING	FC 200	1
4610	GLAND PACKING	KS 65	4
4630	APRON	SUS 316	1
4710	COVER SEAL	SUS 304	1
4800	STOPPER SEAL	SUS 400.12	1
5020	CASING WEARING	FC 200	1
5070.1	DIFFLECTOR	SUS 316	1
5070.2	DIFFLECTOR	SUS 316	1
5240	PACKING SLEEVE	SUS 316 ZFC	1
6380	CONSTANT LEVEL OILER	ACRYL ZFC	1
6480	BRIP PAN	DUS304	1
9020	STUD BOLT	S45 C	12
9021	ISLAND BOLT	SUS 316	2
9130	FLUG	SNW	1
9220	IMPELLER NUT	SK 14	1
9400.1	KEY	S45C	1
9400.2	KEY	S45C	1



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