Members of CRYOGENIC INDUSTRIES

Model CP/AC & DCP/DAC

Applications

- Truck and trailer off-loading
- Liquid storage transfer
- Pipeline backup
- Laboratory research

Features & Benefits

- Hydraulic design provides higher efficiencies, even at higher speeds
- Rugged design allows for intermittent or continuous duty
- Strong intermediate construction allows for installation and operational imperfections
- All pumps supplied with inducers for low NPSH requirements

Gearbox Version (CP/AC)

- Compact design with heavy duty splash lubricated gearbox yields reliable operation and lower than average noise levels

Direct Coupled Version (DCP/DAC)

- High frequency inverter duty motors are available to provide a wide operating range and better speed control
- For CO_2 and N_2O applications, specially designed pressure balanced mechanical seals are used to reduce sensitivity due to pressure loss which increases pump life

Liquids Pumped

- O_2, N_2, Ar
- CO_2, N_2O

DCP/DAC 180

CP/AC 180

Specifications

Flow Rate

gpm	25 – 160
lpm	95– 610

HP Rating

kw	5.5 – 37
hp	7.5 – 50

NPSHR

feet	5 –9.8
meters	1.5 – 3

RPM Range

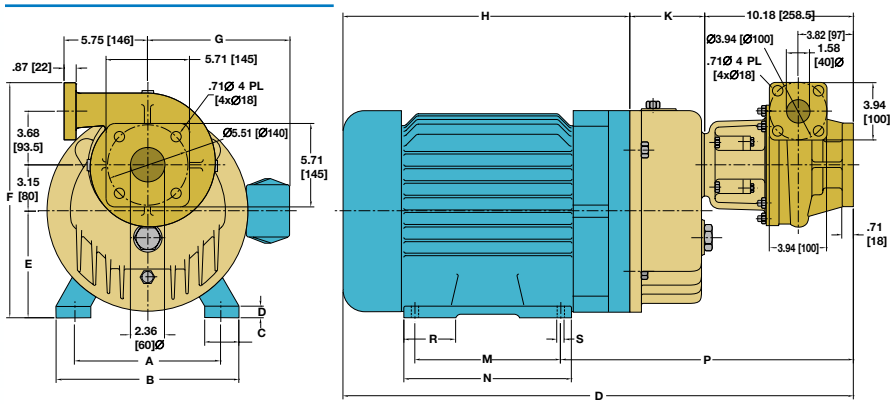
rpm	1,400 – 8,550

Differential Head

feet	49 – 1,476
meters	15 – 450

Model CP/AC & DCP/DAC

Dimensions

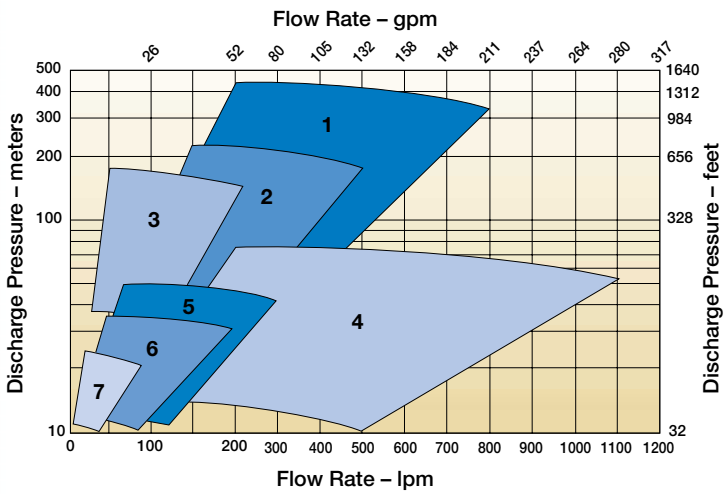


inches [mm]

HP [kW]	TYPE	A	B	C	D	E	F	G	H	K	M	N	O	P	R	S	T	LBS [kg]
14.8/20 [11/15]	160M	10 [254]	12.5 [318]	2.6 [66]	.87 [22]	6.3 [160]	15.1 [383.5]	9.8 [248]	18.8 [478]	5.1 [130]	8.3 [210]	10.2 [260]	34.1 [866]	19.6 [497]	2.2 [56]	.51 [13]	13.7 [350]	330.7 [150]
24.8 [18.5]	160L	10 [254]	12.5 [318]	2.6 [66]	.98 [25]	6.3 [160]	15.1 [383.5]	9.8 [248]	20.6 [522]	5.1 [130]	10 [254]	11.9 [304]	35.8 [910]	19.6 [497]	2.2 [56]	.51 [13]	13.8 [350]	363.7 [165]
29.5 [22]	180M	11 [279]	13.6 [345]	2.8 [70]	1.10 [28]	7.1 [180]	15.9 [430.5]	11 [280]	21.1 [536]	5.1 [130]	9.5 [241]	11.8 [300]	36.4 [924]	20.1 [510]	3.1 [80]	.59 [15]	13.8 [350]	388 [176]

* Dimensions for 120 and 220 sizes are available upon request.

Pump Performance Map



Key:

1. CP 180-4
2. CPA 160-5
3. CPA 120-5
4. DCP 220-10
5. DCP 180-4-5
6. DCPA 160-5
7. DCPA 120-4

based on 60hz

Scope of Supply

- Pump and electric motor
- Inducer
- ELF mechanical seal (most models), non-CO_2 and N_2O

Optional Accessories

- Labyrinth seal for continuous duty operation with seal gas purge panel
- Skid arrangement with accessories installed
- Automatic control system
- Recommended spare parts kits

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