



Members of  CRYOGENIC INDUSTRIES

# Model AC-14

## Gearbox Pump

### Applications

- ▶ Liquid storage transfer
- ▶ Trailer loading and unloading
- ▶ Test facility support

### Features & Benefits

- ▶ Gearbox design provides:
  - improved efficiencies at higher speeds
  - higher operating range (flow rates and pressures)
  - splash oil lube system for improved bearing life and lower maintenance
- ▶ Impeller design allows for low NPSH requirements
- ▶ All bronze construction allows for oxygen compatibility
- ▶ Stainless steel bearing house reduces “cold creep” into the gearbox

### Liquids Pumped

- ▶ N<sub>2</sub>, O<sub>2</sub>, Ar



### Specifications

#### Flow Range

gpm	10–250
lpm	35–950

#### NPSHR

feet	3–8
meters	1–2.5

#### Differential Head

feet	100–1050
meters	30–320

#### Pump Design Rating

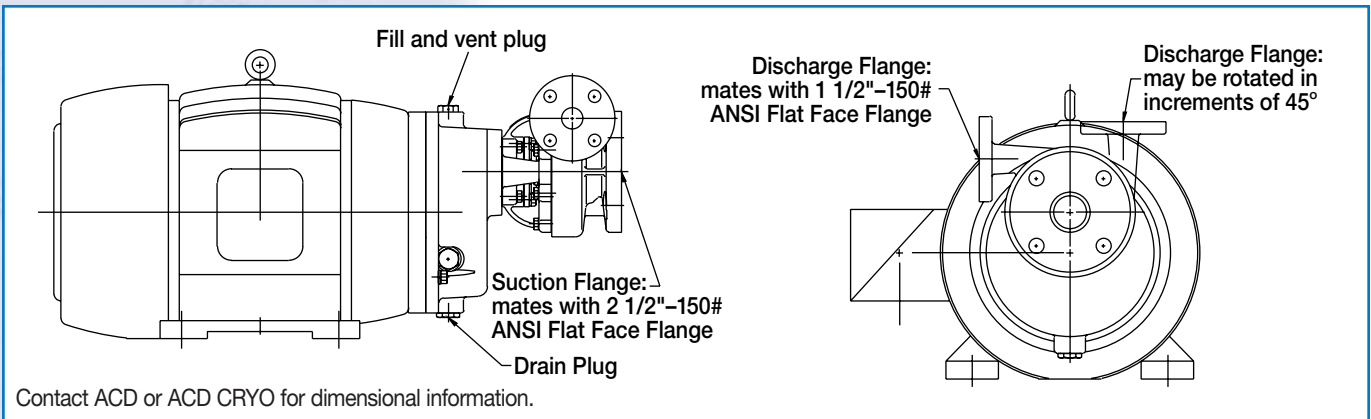
hp	3–30
kw	2.2–22.5

#### RPM Range

rpm	3500–11400
-----	------------

# Model AC-14

## Dimensions



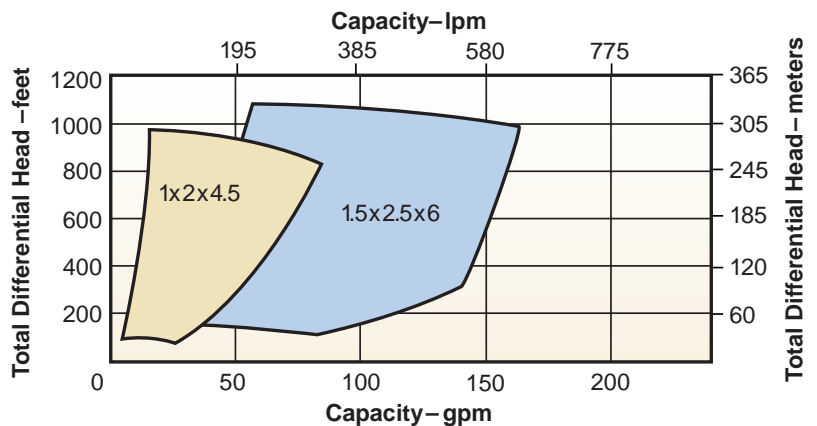
## Scope of Supply

- ▶ Pump, high performance gearbox drive and TEFC motor with purge ports
- ▶ Integrated lube oil system (oil shipped loose)
- ▶ ELF mechanical seal with purge port

## Optional Accessories

- ▶ Pump assembly, P&ID dwg #54215
- ▶ Gearbox purge kit
- ▶ Mechanical seal purge kit
- ▶ Additional oil

## Pump Performance Map



### Speed Range:

1x2x4.5	3500 to 11400 rpm
1.5x2.5x6	3500 to 9500 rpm

Note (not shown in curve for LO<sub>2</sub> service)

1x2x4.5	3500 to 9500 rpm
1.5x2.5x6	3500 to 7200 rpm

based on 60hz

## Worldwide Sales & Service Centers



2321 S. Pullman Street  
Santa Ana, CA 92705 USA  
Tel +1.949.261.7533 • Fax +1.949.261.6285  
800.525.4216 (USA only)  
acd@acdcom.com, www.acdcom.com



Gutenbergstrasse 1  
CH-4142 Muenchenstein, Switzerland  
Tel +41.61.413.0230 • Fax +41.61.413.0233  
info@acdcryo.com

**Cryogenic Industries—Headquarters**  
25720 Jefferson Avenue  
Murrieta, CA 92562 USA  
Tel +1 909.696.7840  
Fax +1 909.698.7484  
www.cryoind.com  
info@cryoind.com

**CryoAtlanta, Inc.**  
370 Great Southwest Parkway, Suite F  
Atlanta, GA 30336 USA  
Tel 888.217.9355 (USA only)  
Tel +1 404.696.8113  
Fax +1 404.696.8116  
tfarmer@bellsouth.net

**CryoCal, Inc.**  
2110 S. Lyon Street, Unit H  
Santa Ana, CA 92705 USA  
Tel +1 949.724.8636  
Fax +1 714.641.1921  
cryocal@ix.netcom.com

**CryoCanada Incorp.**  
530 McNicoll Avenue  
North York, Ontario M2H 2E1, Canada  
Tel +1 416.502.1950  
Fax +1 416.502.1952  
cryocan@istar.ca

**Cryogenic Industries—Malaysia**  
Lot 35, Jalan Selat Selatan 21  
Sobena Jaya, Pandamaran  
42000 Port Klang, Selangor, Malaysia  
Tel +60 (3).365.4801  
Fax +60 (3).365.4798  
jestes@pc.jaring.my

**Pittsburgh Cryogenic Services, Inc.**  
767 State Route 30  
Imperial, PA 15126 USA  
Tel 800.327.6461 (USA only)  
Tel +1 724.695.1910  
Fax +1 724.695.1926  
pittcryo@pulsenet.com

**Cryo-Chem Pty LTD**  
47 McIntosh Street  
Airport West, Victoria 3042, Australia  
Tel +61 3.9330.2444  
Fax +61 3.9330.1015  
rmross1@ibm.net

**Cryogenic Industries—China**  
64 Tian Mu Shan Road  
Hangzhou, 310007, China  
Tel +86 571.885.9026  
Fax +86 571.885.9025  
dkling@mail.hz.zj.cn

Members of **CRYOGENIC INDUSTRIES**