



CS&P TECHNOLOGIES

Industrial Gas Equipment



Cryogenic Pumping Skids

Tailored to customer specification and includes:

- Electric Motor
- Manual and actuated valves
- Stainless steel base with pulley, belt, and guard
- Standard On/Off to fully automated controls

High Pressure Systems

- Greased/Oil lubricated Warm End
- Properly sized Cold Ends
- Discharge line with surge chamber, relief valve, & check valve

Low Pressure Transfer Systems

- Centrifugal Pump rated per customer's specification

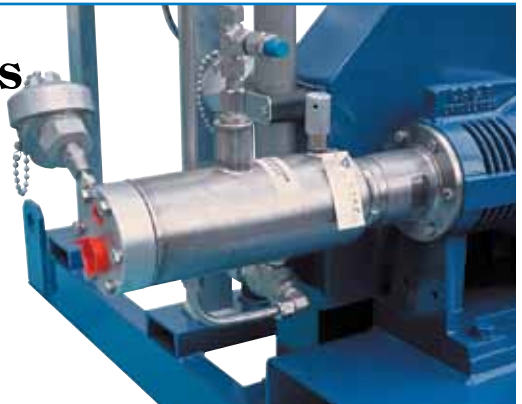
Cryogenic High Pressure Pumps

Power Ends (Simplex, Duplex, or Triplex)

	Flow	Max. Pressure
HPR	.5-4 gpm	1,200 psi
ICP-45	.09-5 gpm	8,200 psi
ICP-75	.4-23 gpm	13,300 psi
ICP-200	.26-93 gpm	10,000 psi

Cold Ends (Vacuum Jacketed)

5/8" VJCE	1-5/16" VJCE	1-5/8" VJCE
7/8" VJCE	1.2" VJCE	2-7/8" VJCE
1.0" VJCE		



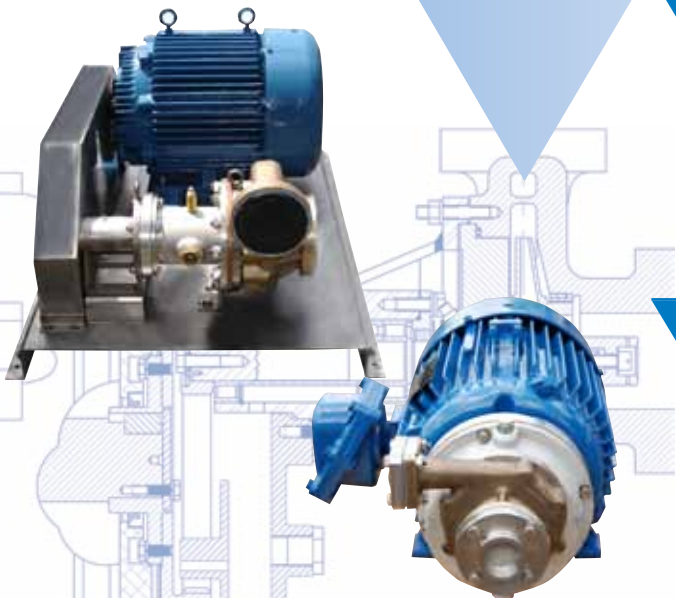
Centrifugal Transfer Pumps

Mechanical Seal or "Sealless" Magnetic Drive

Pump Size	Flow	D.P.
1" x 2" x 4-1/2"	7-35 gpm	300' of Head
1-1/2" x 2-1/2" x 6"	25-140 gpm	600' of Head
2" x 3" x 6.7"	75-225 gpm	600' of Head
2-1/2" x 3-1/2" x 8.7"	80-380 gpm	575' of Head

Liquids Pumped

- | | |
|-----------------|---------------|
| Argon | Hydrogen |
| Carbon Dioxide | Methane (LNG) |
| Carbon Monoxide | Nitrogen |
| Ethylene (LNG) | Oxygen |



Cryogenic Tanks, Vaporizers, and Accumulators

Sized per customer specification.

Parts & Accessories

High Pressure Parts & Accessories

Stainless Steel Surge Chambers
Liquid/Gas Check Valves
Liquid/Gas Relief Valves
High Pressure Stainless Steel Tubing
Cryogenic Pipe & Tubing Clamps
Stainless Steel High Pressure Fittings
Thermocouples

Low Pressure Parts & Accessories

Liquid Suction Manifolds
Transfer Hoses & Fittings
Cryogenic Extended Stem, Ball, Gate & Globe Valves
Low Pressure Stainless Steel Tubing
Cryogenic Pipe and Tubing Clamps
Stainless Steel and Brass Low Pressure Fittings



Service & Repair

Equipment Exchange Program and Replacement Parts

Repair all Cryogenic Pumping Equipment Components
Exchange Inventory of Warm Ends
Exchange Inventory of Centrifugal Pumps
Exchange Inventory of Cold Ends



CS&P Technologies

18119 Telge Road, Cypress, Texas 77429
P.O. Box 130, Cypress, Texas 77410
Tel. (713) 467-0869 • Fax (713) 464-2089

CS&P Cryogenics Canada Ltd

Bay 130, 7491 Edgar Industrial Bend
Red Deer, Alberta T4P 3Z5 Canada
Tel. (403) 346-8240 • Fax (403) 346-8245

CS&P Criogenica de Mexico, S.A. de C.V.

Carretera Presa La Amistad
Km. 19 mas 158 Mts.
Cd. Acuña, Coah. C.P. 26200 Mexico
Tel. 001 (830) 774-5588 • Fax 001 (830) 778-1840

(713) 467-0869 • www.csphouston.com