



Members of  **CRYOGENIC INDUSTRIES**

P2K₃₀ Model

Applications

- ▶ Cylinder filling—medium to heavy duty
- ▶ Unattended, automatic cylinder filling

Features & Benefits

- ▶ Vertical pump installation eliminates gravitational loading on the piston, provides smoother suction valve operation, and makes for a more compact system footprint
- ▶ Motor positioned on the backside of the pumping skid, eliminates possible fire or an explosion hazard in case of a liquid oxygen leak
- ▶ Vacuum jacketed cold end minimizes heat leak to reduce product loss and increase system efficiency
- ▶ Dual wrist-pin bearing design allows for higher rod loading and greater drive-end life
- ▶ V-band clamp secures the sump to the intermediate allowing for quick and easy access to the cold end assembly
- ▶ Spring energized pushrod shaft seals are contained in cartridge housings for fast and easy replacement—takes about twenty minutes without removing the cold end
- ▶ Replaceable wearband on the crosshead piston eliminates wear and reduces maintenance costs
- ▶ Relubrication fittings for the roller bearings and crosshead provide extended service life

Liquids Pumped

- ▶ N₂, O₂, Ar, Methane (LNG), Ethylene



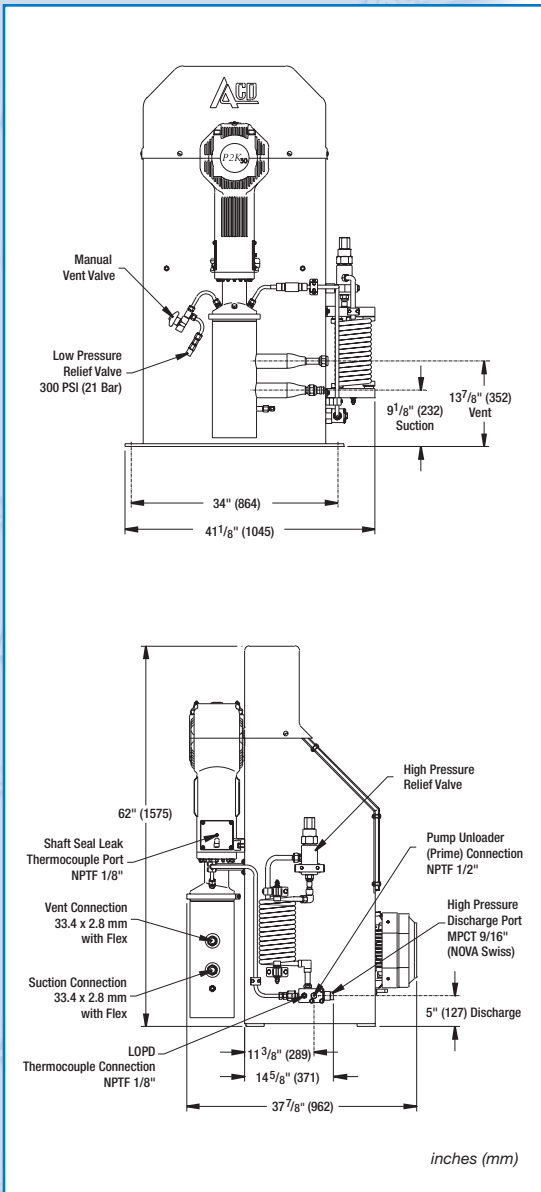
*European Design...
European Performance.*

Specifications

STANDARD P2K₃₀ MODELS

	32 mm, 38 mm x 38 mm (1.25, 1.50 bore x 1.50 stroke)	44.5 mm x 38 mm (1.75 bore x 1.50 stroke)	50.8 mm x 38 mm (2.00 bore x 1.50 stroke)
Flow Rate			
lpm	4.2–14.0	8.3–19.0	10.9–25.0
gpm	1.12–3.7	2.19–5.0	2.87–6.6
Pump Design Rating			
kw	11–30	11–30	11–30
hp	15–40	15–40	15–40
Maximum Discharge Pressure			
bar	420	420	324
psi	6,090	6,090	4,700
NPSPR			
bar	0.14	0.14	0.14
psi	2	2	2
Maximum Suction Pressure			
bar	20.7	20.7	20.7
psi	300	300	300

Dimensions



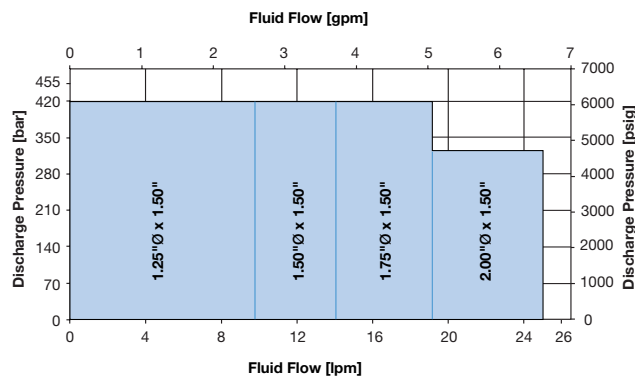
Scope of Supply

- ▶ Vacuum jacketed cold end and grease lubricated drive assembly
- ▶ Electric motor with belt drive and guard
- ▶ Hot dipped galvanized steel skid frame
- ▶ Vent line with manual valve and low pressure relief valve
- ▶ Monel suction strainer
- ▶ Certified high pressure relief valve with discharge line and surge coil
- ▶ Discharge check valve
- ▶ High-pressure gauge with isolation valve

Optional Accessories

- ▶ PLC control panel
- ▶ Automatic control panel
- ▶ Loss of prime and cavitation protection
- ▶ Leak detection for packing
- ▶ Flex sections for suction and tank return lines
- ▶ Installation kits (based on supply tank)
- ▶ Auto cooldown and lock-up
- ▶ Auto unloader valve
- ▶ Drive purge
- ▶ Switch gauge

Pump Performance Map



Maximum Capacity Rating:

19.0 lpm (5.0 gpm)
@ 420 bar (6,090 psi)

25.0 lpm (6.6 gpm)
@ 324 bar (4,700 psi)

Lower flows are available by running the pump slower or by using smaller pistons. Contact ACD Engineering for recommendations for flow/pressure specifications not listed.

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