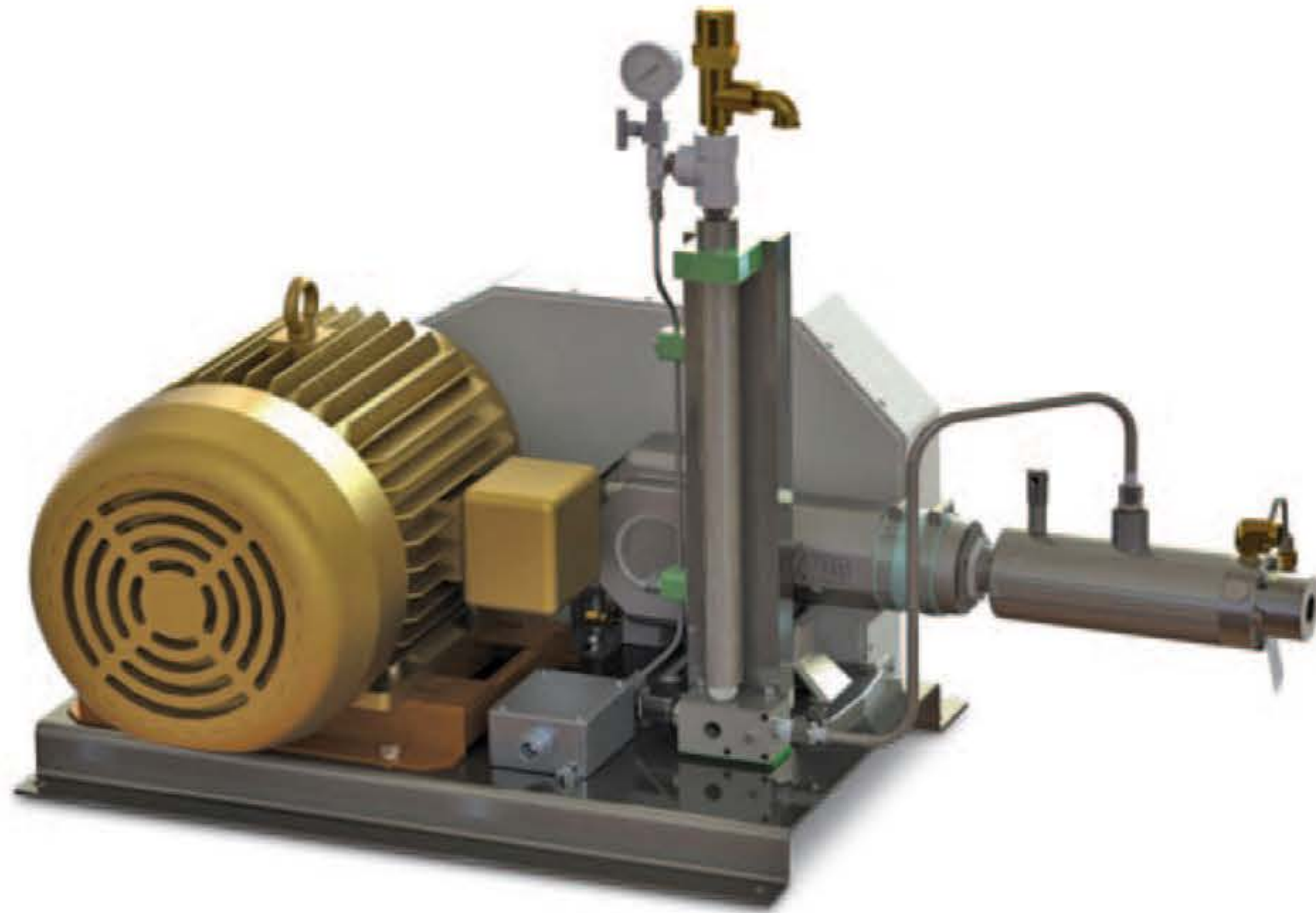


## MODEL ACPD

### CYLINDER FILLING PUMP



#### SPECIFICATIONS: "STANDARD" ACPD SYSTEMS\*

Bore x Stroke	in	1.0 x 0.79	1.0 x 1.26	1.2 x 0.79	1.2 x 1.26
	mm	25 x 20	25 x 32	30 x 20	30 x 32
Flow Rate	gpm	0.23 – 1.20	0.37 – 1.92	0.34 – 1.73	0.54 – 2.76
	lpm	0.88 – 4.56	1.41 – 7.27	1.27 – 6.56	2.03 – 10.46
Maximum Pump Design Rating	hp	15	15	15	15
	kw	11	11	11	11
NPSPR	psi	2	2	2	2
	bar	0.1	0.1	0.1	0.1
Maximum Suction Pressure	psi	300	300	300	300
	bar	20.7	20.7	20.7	20.7
Maximum Working Pressure	psi	6000	6000	4000	4000
	bar	414	414	276	276
Speed Range	rpm	100 – 515	100 – 515	100 – 515	100 – 515

\*Contact ACD engineering for specific performance ratings.

#### FEATURES & BENEFITS

- Vacuum jacketed cold end helps minimize heat leak and reduce product loss
- Stainless steel drive housing for extended pump life
- Monel suction strainer for oxygen compatibility
- Grease lubricated, sealed-for-life bearings for extended operation
- Split drive end housing for easy maintenance access
- Extended stem vacuum port with positive seal for improved vacuum integrity
- Intermediate purge connection allows for extended packing life
- Positive locking drive coupling for improved safety operation

#### APPLICATIONS

- Cylinder filling
- Test stand

#### LIQUIDS PUMPED

- N<sub>2</sub>, O<sub>2</sub>, Ar, H<sub>2</sub>
- Methane (LNG)
- Ethylene (C<sub>2</sub>H<sub>4</sub>)

#### TYPICAL SCOPE OF SUPPLY (SKID)

- Vacuum jacketed cold end with grease lubricated drive assembly
- Electric motor with belt drive and guard
- Stainless steel drive housing
- Hot dipped galvanized steel skid
- Over pressure switch and gauge
- PLC control panel (NEMA 4) with combination motor starter and running time meter (shipped loose)
- Discharge line with high pressure relief valve and surge chamber
- Vent line with low pressure relief valve
- Monel suction strainer

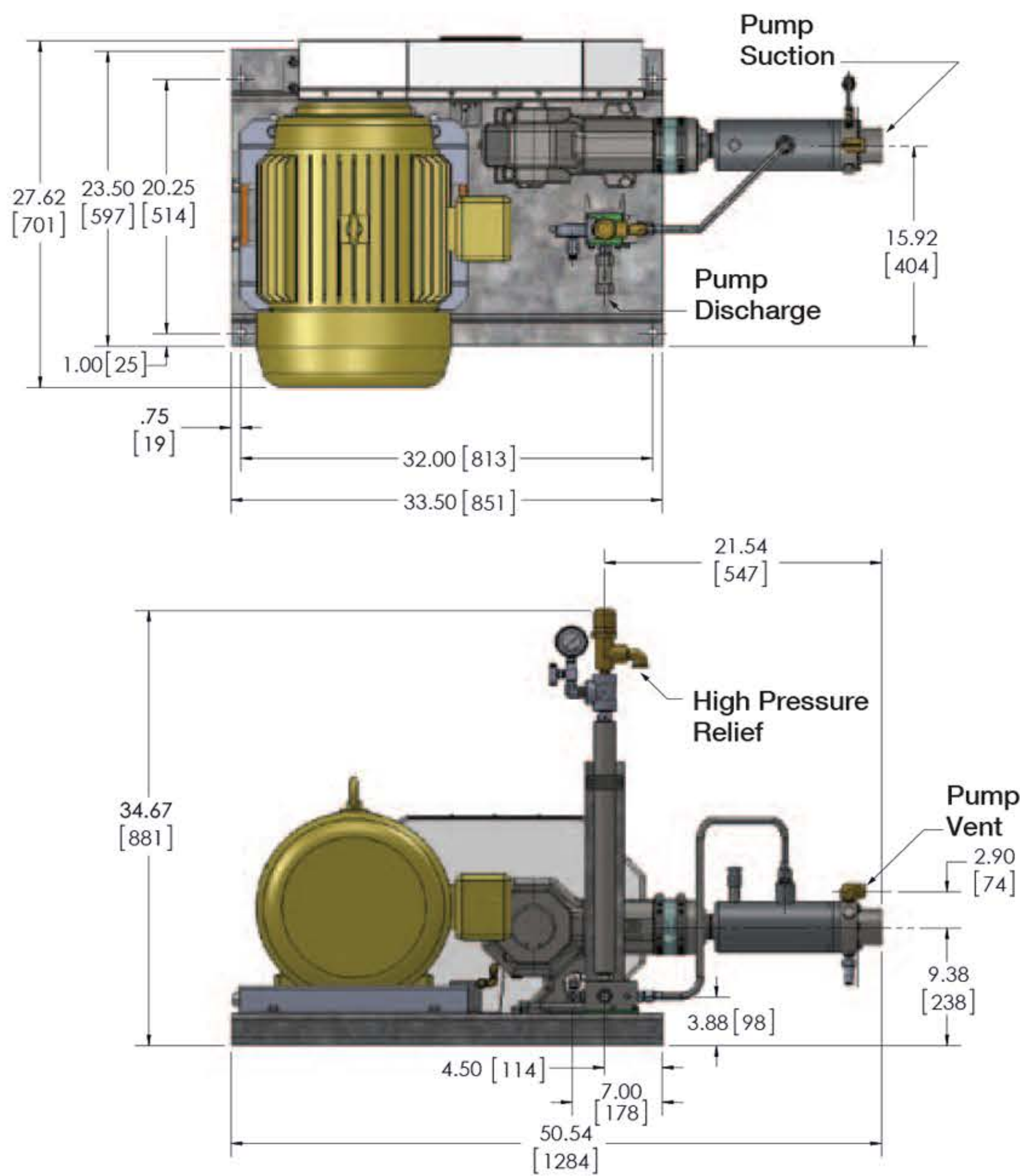
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**INTERNATIONAL  
TECHNISYSTEMS INC.**

# MODEL ACPD

## TYPICAL SKID MOUNTED ACPD

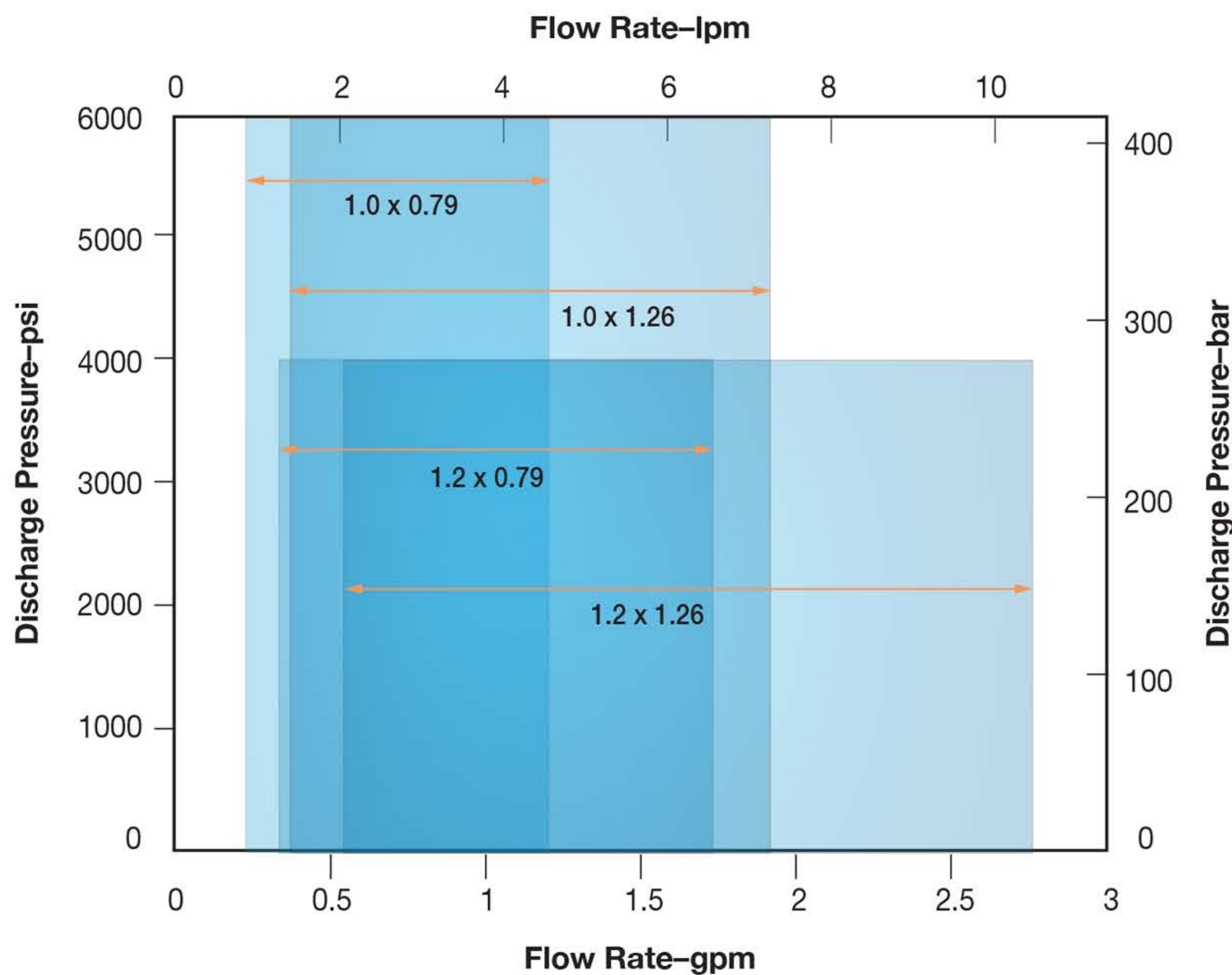


inch/[mm]

### OPTIONAL ACCESSORIES

- Automatic or semi-automatic control panel
- Loss of prime detector (cavitation protection)
- Packing leak detection
- Auto cooldown temperature controller
- Vacuum jacketed suction adapter (LH<sub>2</sub>)
- Foot mounted (vacuum jacketed cold end with drive assembly only) configurations
- Suction and tank return flex sections
- Liquid hydrogen configuration
- ASME high pressure relief valve
- Suction and tank return solenoid valves
- Drive (intermediate) purge
- Manual vent valve

## PUMP PERFORMANCE MAP



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