

## ICP-45

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#### Reciprocating Pumps for Liquefied Gases

The CS&P Technologies ICP-45 series pump is specifically designed for low NPSH applications. They are the most economical high pressure cryogenic pumps available. The ICP-45 can be furnished in the required bore, stroke and rpm combination to provide flows to 4.6 gpm (17.4 lpm) and pressures to 8200 psig (565 barg).

### SPECIAL FEATURES

Constructed using high-grade, non-corrosive materials

Simple installation

High Reliability

Minimum Maintenance

Vacuum Jacketed Cold Ends

Low NPSH Requirements

Continuous Cool Down

Oil Free Drive End

Contamination Free Pumping

### FLUIDS PUMPED

### APPLICATIONS

Oxygen

Nitrogen

Argon

Methane

Hydrogen

Cylinder Filling

Tube Trailer Filling

Multi-Cylinder Cart Filling

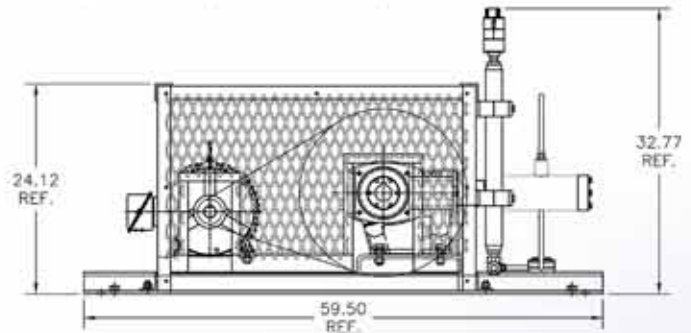
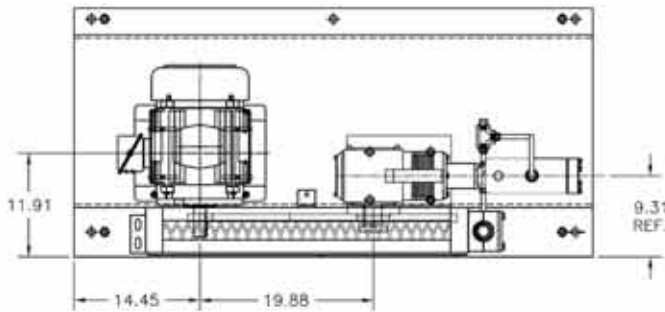
Purging and Process Requirements

Automated High-Pressure Systems



CS&P Technologies

## DIMENSIONAL INFORMATION

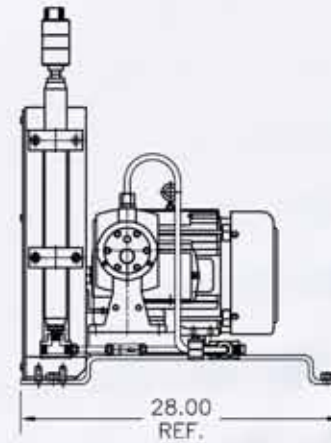


## PERFORMANCE SPECIFICATIONS (1.2" Vacuum Jacketed Cold End and 1.25" Stroke)

Flow Rate		Motor	
GPM	2.2	HP	10
LPM	8.4	KW	7.5

Maximum Working Pressure	
PSI	3,000 PSI
BAR	207

Maximum Suction Pressure	
PSI	210
BAR	15



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## SCOPE OF SUPPLY

Drive Assembly with 1.2" Vacuum Jacketed Cold End Assembly

10 HP Electric Motor

Surge Chamber with Pressure Relief Valve set at 110% MAWP

Check Valve

Stainless Steel Skid Base

Belt Drive System with Aluminum Guard

Suction Adapter