



RECIPROCATING PUMPS

SERIES HP

for INDUSTRIAL GASES



Technical features

- Compatible with Cold Converter and Thermosyphon storage tanks
- Low operating noise
- High reliability

Applications

- Cylinders filling and high pressure accumulation capacities

Liquids transferred

- LIN, LOX, LAR

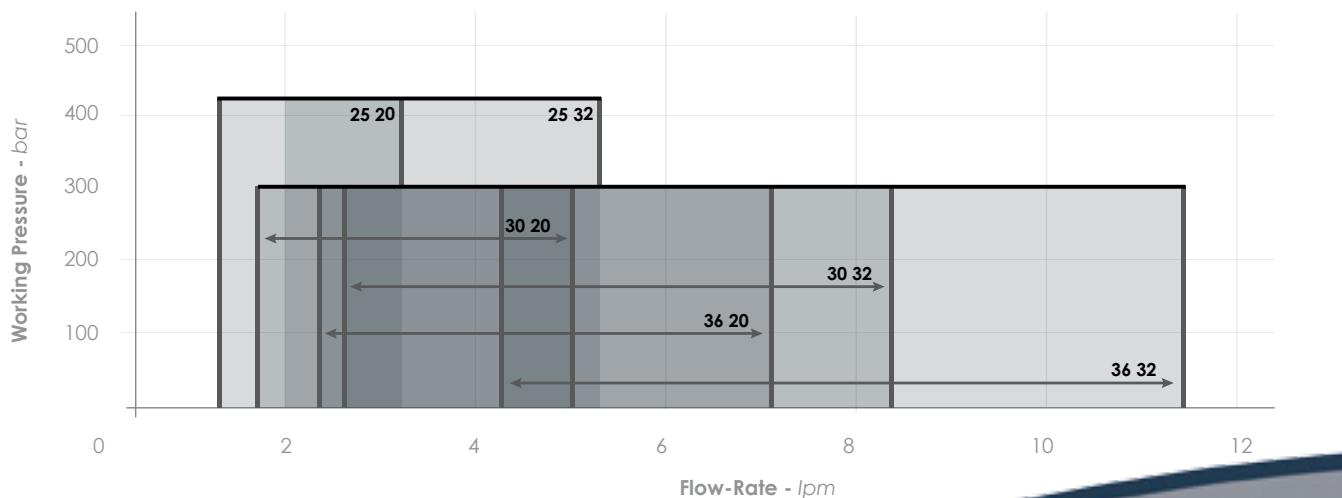
Crank mechanism

- TW3 - Grease Lubrication

PERFORMANCE

HP TW3	Piston		Flow-rate				Maximum allowable suction pressure (MASP)	Maximum allowable working pressure (MAWP)	Power installed Referred to MAWP		
	Bore	Stroke	Min 150 rpm	Max 420 rpm	lpm	gpm					
Series pump	mm	mm	lpm	gpm	lpm	gpm	bar	psi	bar	psi	kW
HP 25 20	25	20	1,3	0,3	3,5	0,9	16	230	420	6090	3 - 7,5
HP 25 32	25	32	2,0	0,5	5,6	1,5	16	230	420	6090	4 - 11
HP 30 20	30	20	1,8	0,5	5,0	1,3	20	290	300	4350	3 - 7,5
HP 30 32	30	32	2,9	0,8	8,1	2,1	20	290	300	4350	4 - 15
HP 36 20	36	20	2,6	0,7	7,3	1,9	20	290	300	4350	4 - 11
HP 36 32	36	32	4,2	1,1	11,6	3,1	20	290	300	4350	5,5 - 18,5

NPSH required: 1,5 - 1,7 m H₂O



Standard supply

- ▶ Hot dipped galvanized steel skid
- ▶ Cryogenic pump
- ▶ Electric motor
- ▶ Transmission by belts and pulleys
- ▶ Pulsation damper

Standard accessories

- ▶ Suction flexible hose
- ▶ Return flexible hose
- ▶ Low pressure safety valve
- ▶ High pressure safety valve
- ▶ High pressure pneumatic valve for venting
- ▶ Check valve
- ▶ Pressure gauge
- ▶ Pressure switch
- ▶ Temperatur sensor for cool down
- ▶ Temperatur sensor for cavitation
- ▶ Temperatur sensor for leaks detection
- ▶ Phase separator (for Cold converter installations)
- ▶ By-pass valve (for Cold converter installations)

Optional accessories

- ▶ High pressure pneumatic release valve
- ▶ Configurable for breathable LOX
- ▶ Flushing system with nitrogen gas
- ▶ Electrical control panel
- ▶ 2 speed electric motor
- ▶ Motor suitable for VFD
- ▶ Customized electrical control panel available
- ▶ Completely automated systems available

Average SKID weight:

420 kg

Package overall dimensions

200 x 85x 139 cm

Tests and controls

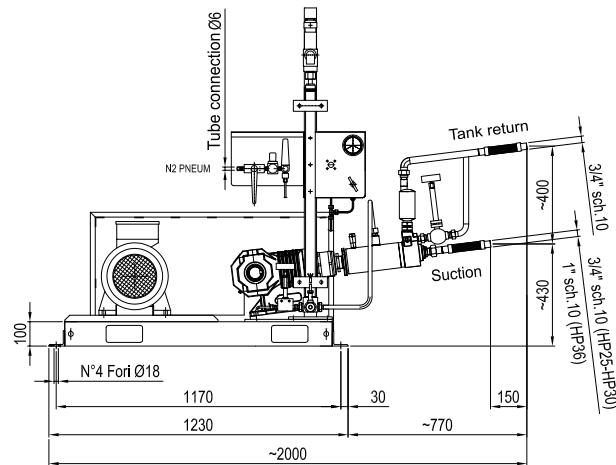
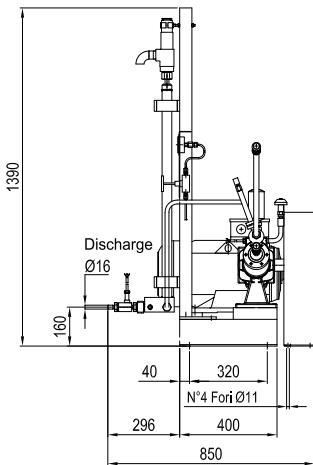
- ▶ Dimensional check of each mechanical component before assembling
- ▶ Running test of each pump with LIN before delivery

Standards

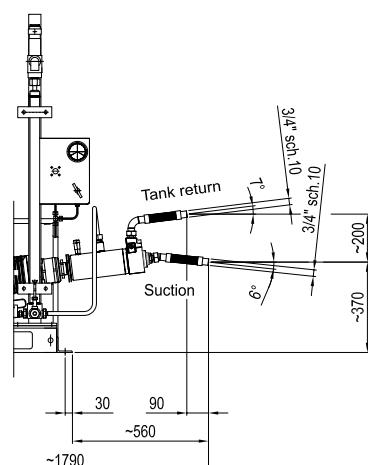
Designed according to:

- ▶ European Directive 2006/42/CE Machinery
- ▶ European Directive PED 97/23/CE
- ▶ EIGA/IGC/CGA guidelines

GENERAL DIMENSIONS



Coldconverter configuration



Thermosyphon configuration



Certified quality management system

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