



RECIPROCATING PUMPS

SERIES VT 100

for **INDUSTRIAL GASES**



Technical features

- ▶ Compatible with Cold Converter and Thermosyphon storage tanks
- ▶ Modular assembly (from Simplex to Quintuplex)
- ▶ High reliability
- ▶ Low operating noise
- ▶ Quick maintenance thanks to the cartridge seal system

Applications

- ▶ Cylinders filling and high pressure accumulation capacities

Crank mechanism

- ▶ TW 10 - Oil lubrication

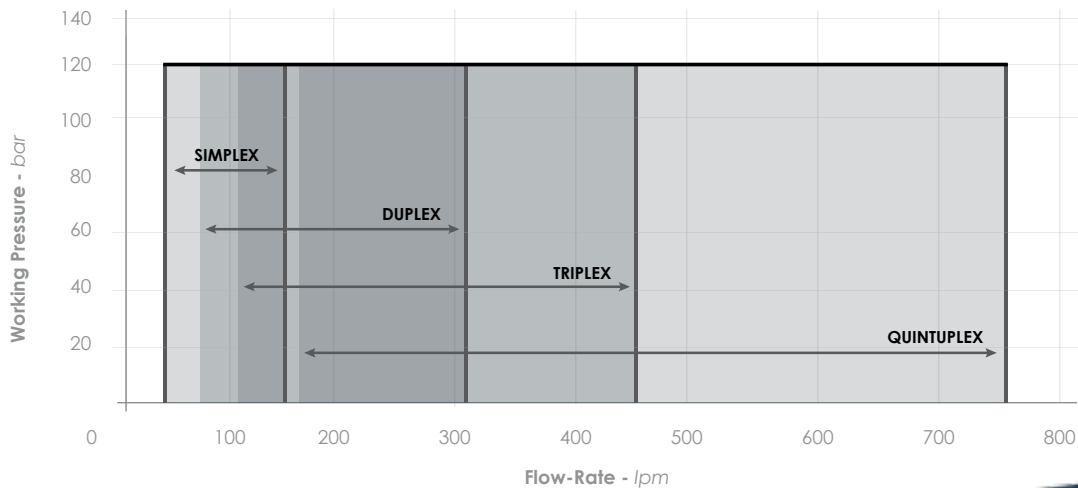
Liquids transferred

- ▶ LIN, LOX, LAR, LCO₂, LN₂O

PERFORMANCE

VT-100 TW10	Piston		Flow-rate				Maximum allowable suction pressure (MASP)		Maximum allowable working pressure (MAWP)		Power installed
	Bore	Stroke	Min 80 rpm	gpm	Max 350 rpm	gpm	bar	psi	bar	psi	Referred to MAWP
<i>Series pump</i>	<i>mm</i>	<i>mm</i>	<i>lpm</i>	<i>gpm</i>	<i>lpm</i>	<i>gpm</i>	<i>bar</i>	<i>psi</i>	<i>bar</i>	<i>psi</i>	<i>kW</i>
VT 100 62 S	100	62	35,1	9,3	153,4	40,5	20	290	120	1740	18,5 - 75
VT 100 62 D	100	62	70,1	18,5	306,8	81,0	20	290	120	1740	30 - 132
VT 100 62 T	100	62	105,2	27,8	460,2	121,5	20	290	120	1740	45 - 200
VT 100 62 Q	100	62	175,3	46,3	766,9	202,5	20	290	120	1740	75 - 315

NPSH required: 1 - 1,2 m H₂O



Standard supply

- ▶ Hot dipped galvanized steel skid
- ▶ Cryogenic pump
- ▶ Electric motor
- ▶ Transmission by belts and pulleys, available also with gearbox
- ▶ Double pulsation damper

Standard accessories

- ▶ Suction flexible hose
- ▶ Return flexible hose
- ▶ Low pressure safety valve
- ▶ High pressure safety valve
- ▶ High pressure manual valve for venting
- ▶ Check valve
- ▶ Pressure gauge
- ▶ Pressure switch
- ▶ Temperature sensor for cool down
- ▶ Temperature sensor for cavitation
- ▶ Temperature sensor for leaks detection

Optional accessories

- ▶ Flushing system with nitrogen gas
- ▶ Electrical control panel
- ▶ 2 speed electric motor
- ▶ Motor suitable for VFD
- ▶ Customized electrical control panel available on demand
- ▶ Completely automated systems available on demand

Average SKID weight:

1200 kg

Package overall dimensions

302 x 119 x 155 cm

Tests and checks

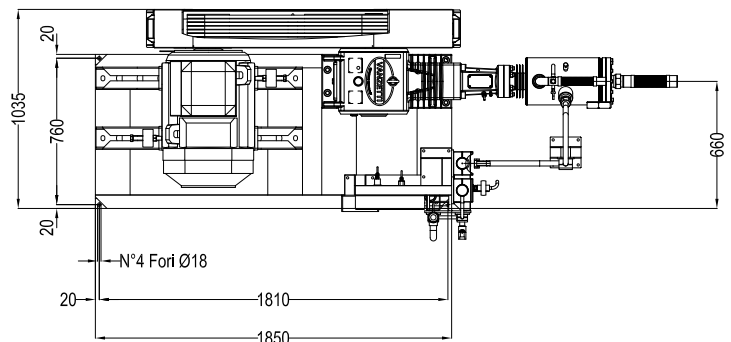
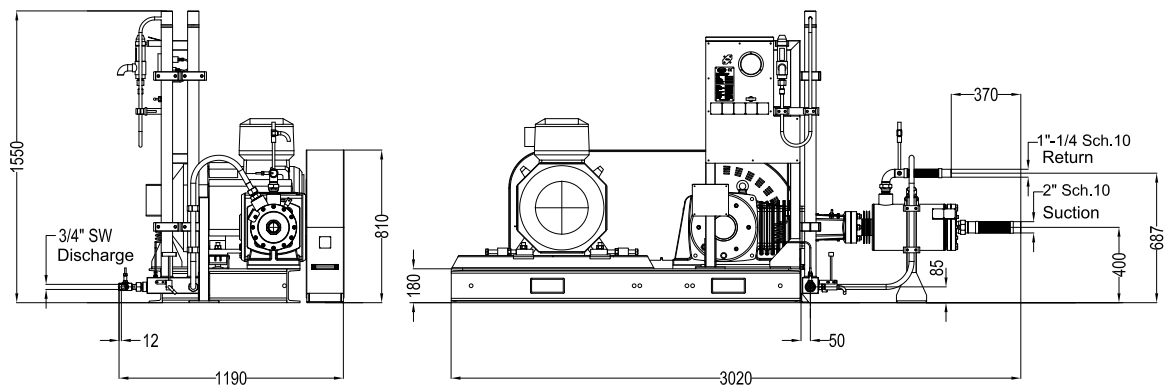
- ▶ Dimensional check of each mechanical component before assembling
- ▶ Running test of each pump with LIN before delivery

Standards

Designed according to:

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

GENERAL DIMENSIONS



Certified quality management system

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