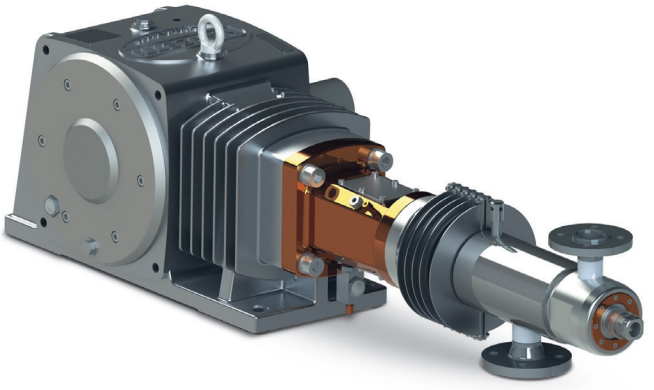
CRYOGENIC RECIPROCATING PUMPS

VT-3 SERIES

FOR LIQUEFIED NATURAL GAS (LNG)

TECHNICAL FEATURES

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



APPLICATIONS

- Big sized L-CNG refueling stations for cars/trucks/buses, mother stations, tube trailer filling

CRANKDRIVE SYSTEM

- TW 10 - Oil Lubrication

TRANSFERRED FLUIDS

- LNG

PERFORMANCES

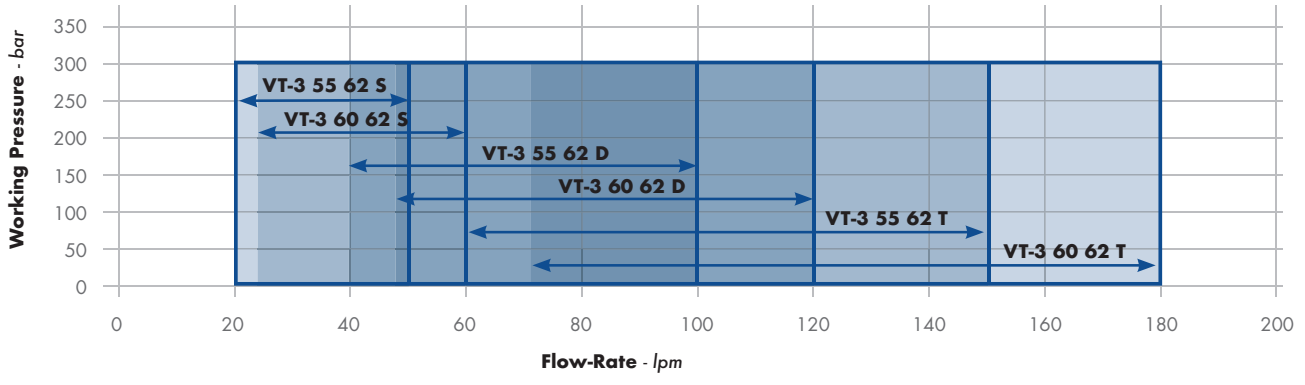
VT-3 TW 10

Model	Piston		Flow-rate				Maximum allowable suction pressure (MASP)		Maximum allowable working pressure (MAWP)		Power installed
	Bore	Stroke	Min 150* rpm		Max 380 rpm						Referred to MAWP
Series pump	*mm*	*mm*	*lpm*	*gpm*	*lpm*	*gpm*	*bar*	*psi*	*bar*	*psi*	*kW*
VT-3 55 62 S	55	62	20	5,3	50	13,2	20	290	300	4351	30 - 75
VT-3 55 62 D	55	62	40	10,6	100	26,4	20	290	300	4351	37 - 90
VT-3 55 62 T	55	62	60	15,9	150	39,6	20	290	300	4351	45 - 110
VT-3 60 62 S	60	62	23,7	6,3	60	15,9	20	290	300	4351	30 - 75
VT-3 60 62 D	60	62	47,3	12,5	120	31,7	20	290	300	4351	45 - 110
VT-3 60 62 T	60	62	71,0	18,8	180	47,6	20	290	300	4351	55 - 132

NPSH required: 1,5 – 1,7 m

**Flow-rate can be reduced by forced oil lubrication system*

Data can be subjected to change



STANDARD SUPPLY

- Painted steel frame
- Cryogenic pump
- Electric motor
- Transmission by belt and pulleys or gearbox and couplings
- Double pulsation damper

STANDARD ACCESSORIES

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

OPTIONAL ACCESSORIES

- Flushing system with nitrogen gas
- Forced oil lubrication system
- High pressure pneumatic valve for venting
- Motor suitable for VFD
- Complete automatic system available on demand

Average SKID weight: **1600 kg**

Package overall dimensions: **295 x 118 x 154 cm**

TEST AND CHECKS

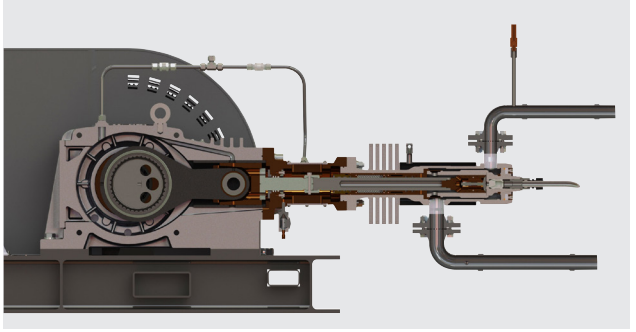
- Dimensional control of each mechanical component before assembly
- Running test of each pump with LIN before delivery

STANDARDS

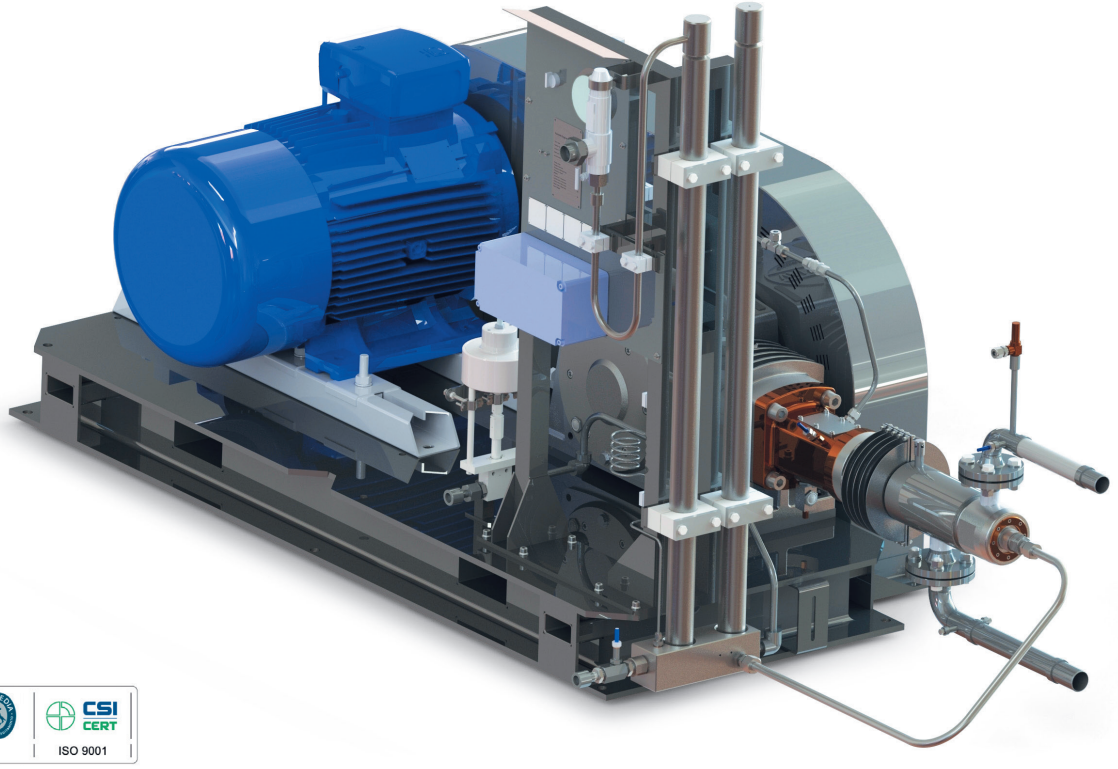
Designed according to:

- European Directive Machinery
- European Directive ATEX
- EIGA/IGC/CGA guidelines
- European Directive PED

Ex II 2G c k IIB/IIC T4



Pump skid section



ISO 9001

Certified quality management system