



VERTICAL CRYOGENIC PROCESS PUMPS

# DVM SERIES

FOR INDUSTRIAL GASES

## TECHNICAL FEATURES

- Available in single stage or multistage configuration
- Electric motor with direct transmission
- Piloted by variable frequency drive for different speeds and operating points
- Cartridge labyrinth gas seal (single or double type)
- Low sealing gas consumption required
- Purged bearing grease retaining chamber
- Purged warm box
- Composite insulating flange
- Inducer to minimize required NPSH
- Low noise emission (< 80 dB)

## APPLICATIONS

- Continuous processes with industrial gases
- Air separation units (ASU)
- Recycling
- Liquid transfer between storage tanks
- Process and backup operations

## TRANSFERRED FLUIDS

- LIN, LOX, LAR

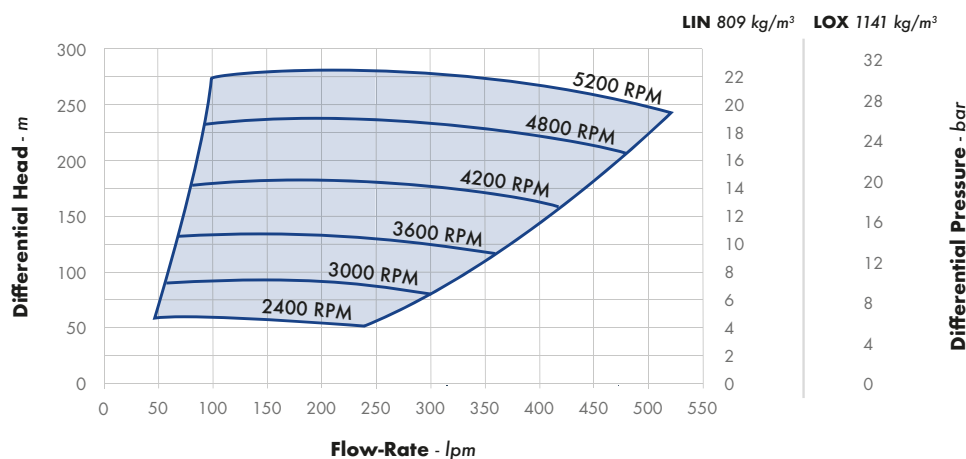


## PERFORMANCES

DVM SERIES

Model		DVM 185-25
Power installed (Motor frame)	Pm [kW]	11 - 15 - 18,5 - 22 (160L) / 30 - 37 (180L)
Max operating speed (90 Hz)	rpm	5200
Max suction pressure	P [bar]	5
Max allowable working pressure	MAWP [bar]	35
Max Head	DH [m]	280
Max flow-rate	Q [lpm]	520
Weight	W [kg]	325 (160L) / 440 (180L)

Data can be subjected to change



## STANDARD ACCESSORIES

- Labyrinth gas seal control panel
  - Differential pressure transmitters for monitoring the seal gas efficiency
  - Flow meters for monitoring the gas flow through the pump lantern and seal
  - Differential pressure regulator for an accurate gas flow adjustment
- PT100 for monitoring the seal gas leakage and pump cool-down
- Motor front bearing grease retaining chamber
- Expansion line to minimize the required seal gas reference pressure

## OPTIONAL ACCESSORIES

- PT100 for monitoring the motor front bearing temperature
- Front motor bearing heating belt
- Suction filter
- Suction and discharge flexible hoses

## TEST AND CHECKS

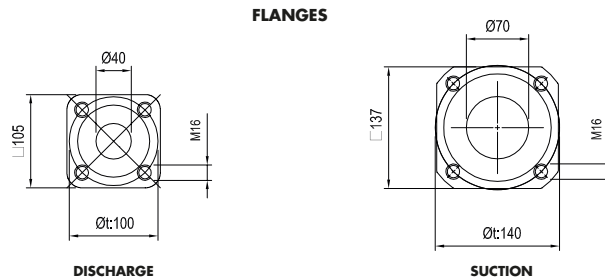
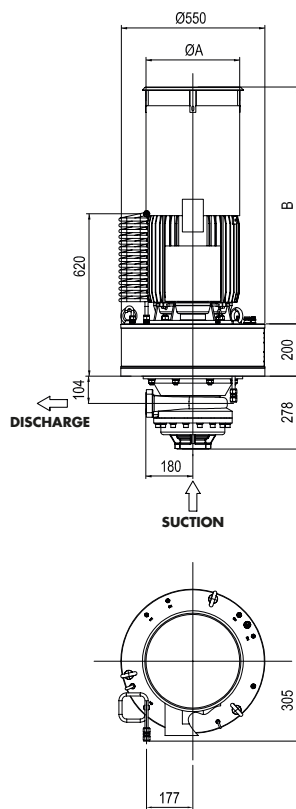
- Dimensional control of each mechanical component before assembly
- Running test of each pump with LIN before delivery

## STANDARDS

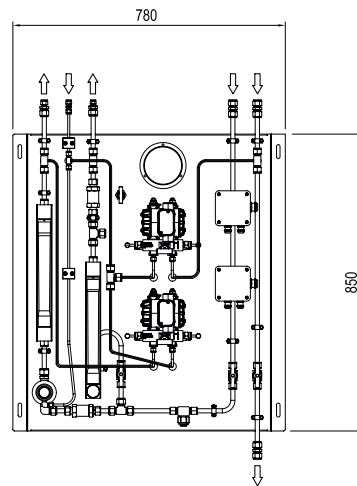
Designed according to:

- European Directive
- EIGA/IGC/CGA guidelines

## GENERAL DIMENSIONS



## LABYRINTH GAS SEAL CONTROL PANEL



## DVM 185-2S

Available motor power [kW]	Motor size	A	B	Weight [kg]
11/15/18,5/22	160L	315	831	325
30/37	180L	358	905	440

Data can be subjected to change



Certified quality management system

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