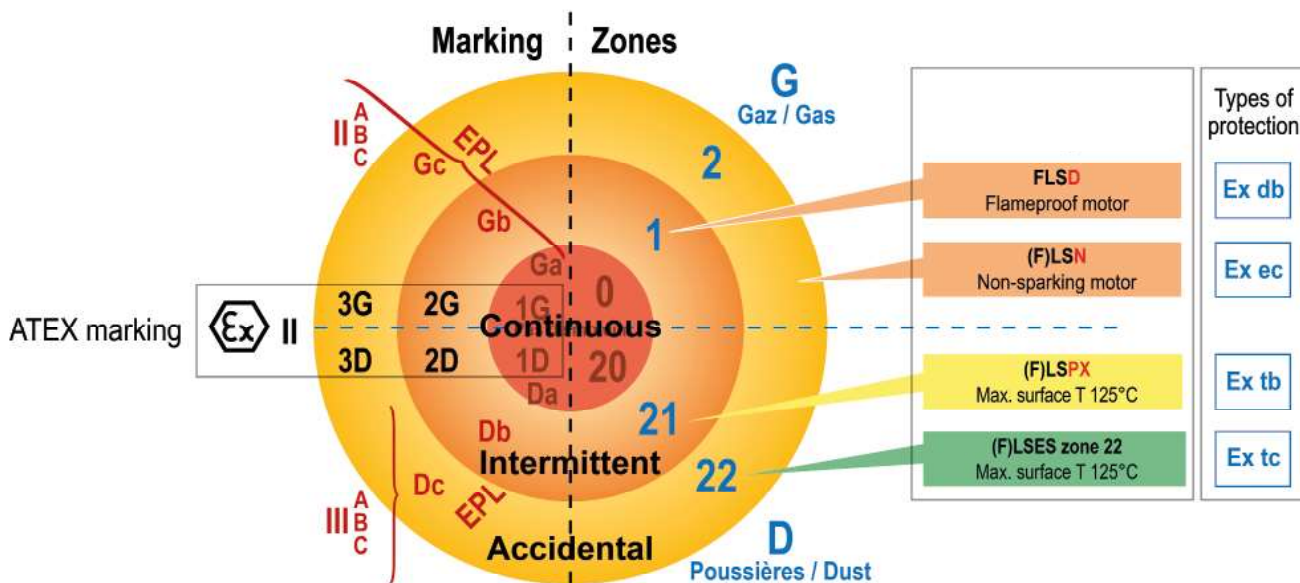




Directive 2014/34/UE equipment classification					IEC60079-0 equipment classification Equipment Protection Level					Zones
Use	ATEX group	Category	Protection level	If ATEX presence	Use	Equipment group	EPL	Protection level	If ATEX presence	60079-10
Firedamp mines	I	M1 All firedamps content	Very high	Power on	Firedamp mines	I	Ma All firedamps content	Very high	Power on	
		M2 Within a certain value	High	Power off			M2 Within a certain value	High	Power off	
Surface Industries	II	1G	Very high	Power on	Gas explosive atmospheres	II A B C	Ga	Very high	Power on	0
		2G	High				Gb	High		1
		3G	Normal				Gc	Reinforced		2
		1D	Very high		Dust explosive atmospheres	III A B C	Da	Very high		20 IP6X
		2D	High				Db	High		21 IP6X
		3D	Normal				Dc	Reinforced		22 IP6X

EPL : Equipment protection level

I : Methane IIA : Propane IIIA : combustible airborne particles
 IIB : Ethylene IIB : non-conductive dust (electrical resistivity > 10³ Ω.m)
 IIC : Hydrogen, Acetylene IIIC : conductive dust



Determining the suitability of equipment (its type of protection) for a zone and its application is the responsibility of the operator.

TEMPERATURE CLASS	T1	T2	T3	T4	T5	T6
Ignition Temperature	> 450 °C	> 300 °C	> 200 °C	> 135 °C	> 100 °C	> 85 °C
Max. permissible surface temperature of the equipment	450 °C	300 °C	200 °C	135 °C	100 °C	85 °C

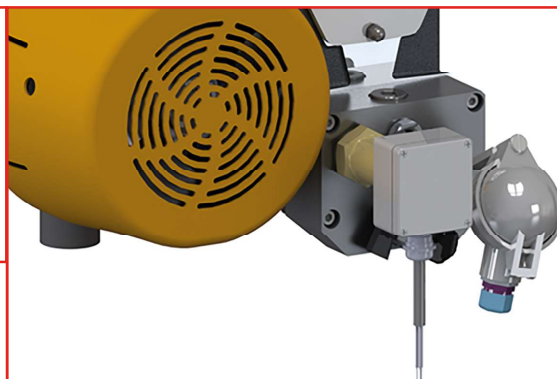
Selection tool EVISA ATEX

High performance ATEX oil-flooded vacuum pumps



Gas & dust certified electrical motor.
IE3 efficiency class.

PT100 temperature sensor as standard equipment.
Optional oil level sensor.
Fixation on reinforced metallic flange.



Oil mist filters designed for ATEX areas.

50 Hz	Evisa 65.R HV Atex	Evisa 100.R HV Atex	Evisa 200.R HV Atex	Evisa 300.R HV Atex
Nominal air flow rate m ³ .h ⁻¹ - cfm	68 - 40	100 - 58,8	200 - 117,7	300 - 176,5
End vacuum mbar - torr - Gast ballast closed	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²	≤ 6.10 ⁻² - 4,5.10 ⁻²
End vacuum mbar - torr - Gast ballast opened	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	≤ 1 - 0,75	≤ 2 - 1,5
Motor power	1,5 kW	2,2 kW	4 kW	5.5 kW



II 2/2 G c,k,b IIB T4 Gb/Gb



II 2/2 D c,k,b IIIC T135°C Db/Db

EVISA E65.R ATEX



N° INERIS-EQEN : 033438/17

EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. They can be installed either in gas or dust zones or both. They can run continuously from atmospheric pressure to ultimate vacuum. They are silent and extremely robust.

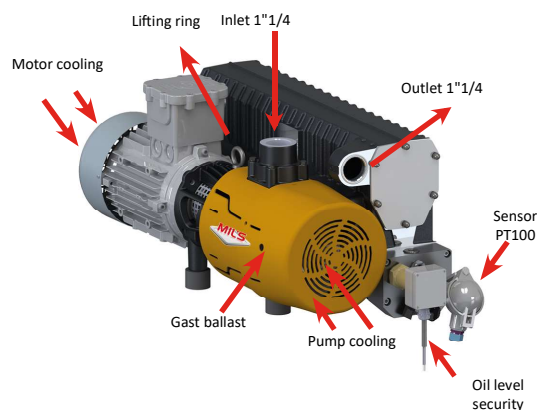
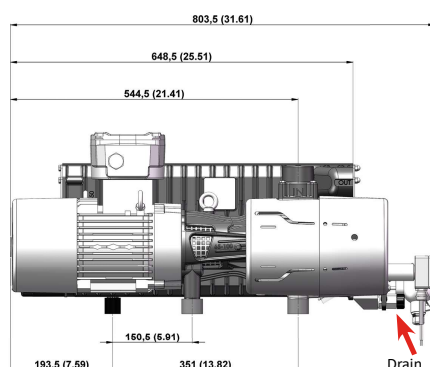
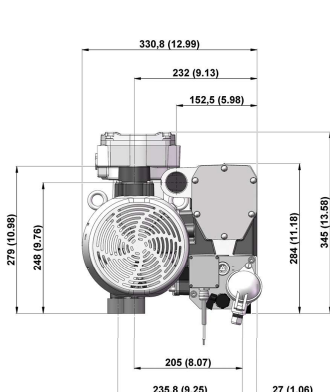
- Single stage vacuum pump with an end vacuum of 6.10^{-2} mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

Technical characteristics

			50 Hz	
E65.R ATEX HV	Nominal flow rate m ³ .h ⁻¹ - <i>cfm</i>		68 - 40	
	PNEUROP pumping speed ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>		65 - 38,2	
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ m ³ .h ⁻¹ - <i>cfm</i>		40 - 23,5	
	Closed gas ballast	End vacuum mbar - <i>torr</i>	≤ 6.10 ⁻² - 4,5.10 ⁻²	
		End vacuum mbar - <i>torr</i>	≤ 5.10 ⁻¹ - 3,8.10 ⁻¹	
		Water vapor permitted maximum pressure mbar - <i>torr</i>	50 - 37,5	
	Opened gas ballast 3 rotations	Water vapor capacity kg.h ⁻¹	2	
		End vacuum mbar - <i>torr</i>	≤ 3 - 2,3	
		Water vapor permitted maximum pressure mbar - <i>torr</i>	80 - 60	
	Fully opened gas ballast	Water vapor capacity kg.h ⁻¹	3	
		100 % synthetic oil		MV99S
		Oil capacity l - <i>qt</i>		3 - 3,2
Noise level dB(A)		67		
IE3 electrical motor	Voltage		3ph - 230/400 V - 50 Hz	
	Motor power		1,50 kW	
	Rotation speed min ⁻¹		1500	
Inlet connection		1"1/4 BSP		
Outlet connection		1"1/4 BSP		
Weight with oil kg - <i>lb</i>		85 - 187,4		

⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

Dimensions mm (inch)



Lubricated rotary vane vacuum pumps

References

E65.R ATEX HV	WITH GAS BALLAST
DUST AND GAS ZONE II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db	824392

Accessories and options

Oil level security		333172
Suction filter	Paper cartridge 126PA	625470
ATEX Zone	Carbon cartridge 126CH	625471
II2G IIB	Polyester cartridge 126PO	619884
II2D IIIC		
Stainless steel inlet or outlet hose - 0,5 m KF		619886
Elevated base frame H = 150 mm		625209
Flame arrester DN50		625417
PT100 intrinsically safe power supply (assembly out of atex zone) - Output 0-10V		362640

Maintenance kits

3 000 hours usual maintenance

724608

12 000 hours preventive maintenance

724609

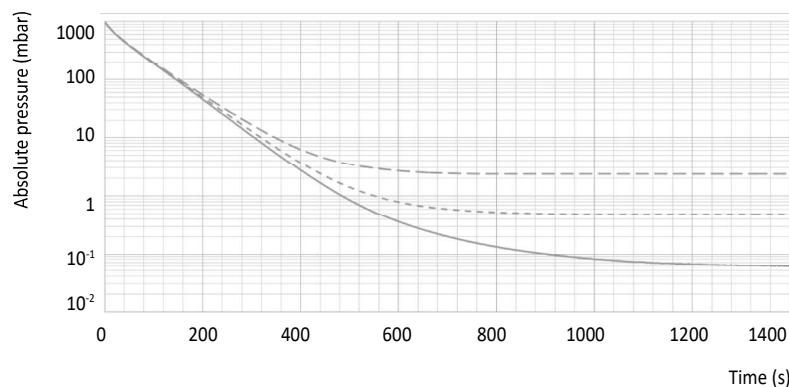


3 000 hours
usual maintenance



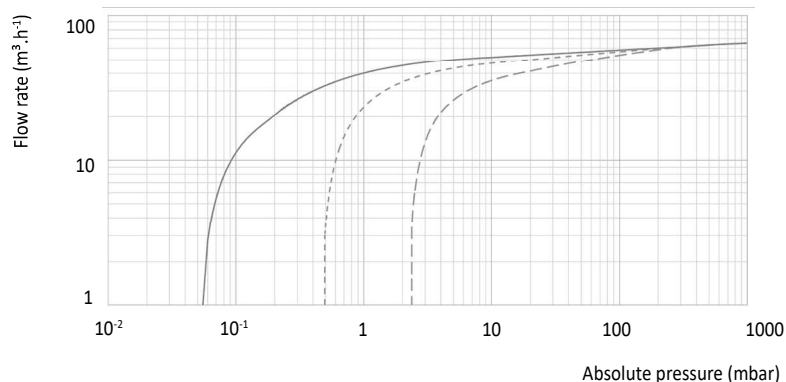
12 000 hours
preventive maintenance

Pumping speed on 1000 l vessel



- 50 Hz - Closed gas ballast
- - - 50 Hz - Opened gas ballast
3 rotations
- ... 50 Hz - Fully opened gas ballast

Performance curves - 50 Hz



- 50 Hz - Closed gas ballast
- - - 50 Hz - Opened gas ballast
3 rotations
- ... 50 Hz - Fully opened gas ballast

Specifications are subject to be changed without notice.



II 2/2 G c,k,b IIB T4 Gb/Gb



II 2/2 D c,k,b IIIC T135°C Db/Db

EVISA E100.R ATEX



EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. They can be installed either in gas or dust zones or both. They can run continuously from atmospheric pressure to ultimate vacuum. They are silent and extremely robust.

- Single stage vacuum pump with an end vacuum of 6.10^{-2} mbar
- Compactness and noise level optimized for an easy integration in machines
- High water vapor pumping capacity with finely adjustable gas ballast
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

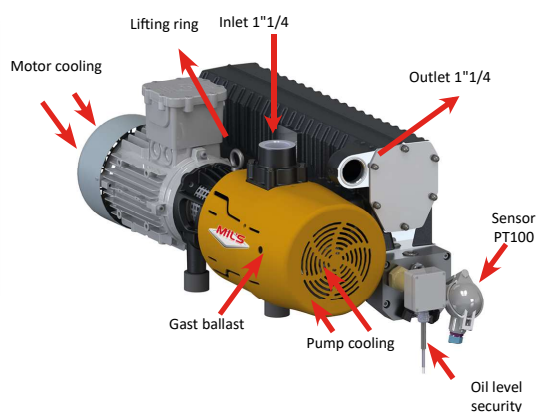
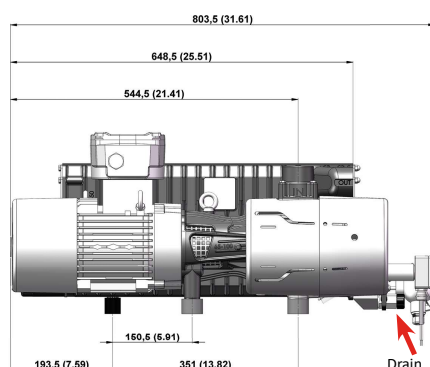
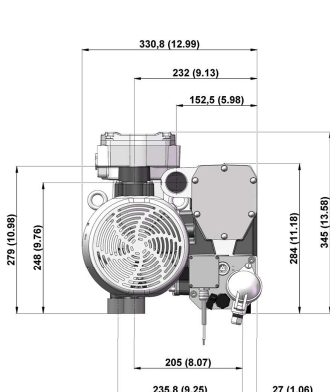
N° INERIS-EQEN : 033438/17

Technical characteristics

		50 Hz
E100.R ATEX HV	Nominal flow rate $m^3 \cdot h^{-1} - cfm$	100 - 58,8
	PNEUROP pumping speed ⁽¹⁾ $m^3 \cdot h^{-1} - cfm$	96 - 56,5
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ $m^3 \cdot h^{-1} - cfm$	52 - 30,6
	Closed gas ballast	End vacuum mbar - torr
		$\leq 6.10^{-2} - 4,5.10^{-2}$
	Opened gas ballast	End vacuum mbar - torr
	3 rotations	$\leq 5.10^{-1} - 3,8.10^{-1}$
		Water vapor permitted maximum pressure mbar - torr
		59 - 44,2
		Water vapor capacity $kg \cdot h^{-1}$
		3,4
	Fully opened gas ballast	End vacuum mbar - torr
		$\leq 2 - 1,5$
		Water vapor permitted maximum pressure mbar - torr
		95 - 71,2
		Water vapor capacity $kg \cdot h^{-1}$
		5,5
	100 % synthetic oil	MV99S
	Oil capacity l - qt	3 - 3,2
	Noise level dB(A)	67
	IE3 electrical motor	Voltage
		3ph - 230/400 V - 50 Hz
		Motor power
		2,20 kW
		Rotation speed min^{-1}
		1500
	Inlet connection	1"1/4 BSP
	Outlet connection	1"1/4 BSP
	Weight with oil kg - lb	92,5 - 202,9

⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

Dimensions mm (inch)



Specifications are subject to be changed without notice.

Lubricated rotary vane vacuum pumps

References

E100.R ATEX HV

WITH GAS BALLAST

DUST AND GAS ZONE

II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db

824393

Accessories and options

Oil level security

333172

Suction filter

Paper cartridge 126PA

625470

ATEX Zone

Carbon cartridge 126CH

625471

II2G IIB

II2D IIIC

Polyester cartridge 126PO

619884

Stainless steel inlet or outlet hose - 0,5 m KF

619886

Elevated base frame H = 150 mm

625209

Flame arrester DN50

625417

**PT100 intrinsically safe power supply
(assembly out of atex zone) - Output 0-10V**

362640

Maintenance kits

3 000 hours usual maintenance

724608

12 000 hours preventive maintenance

724610

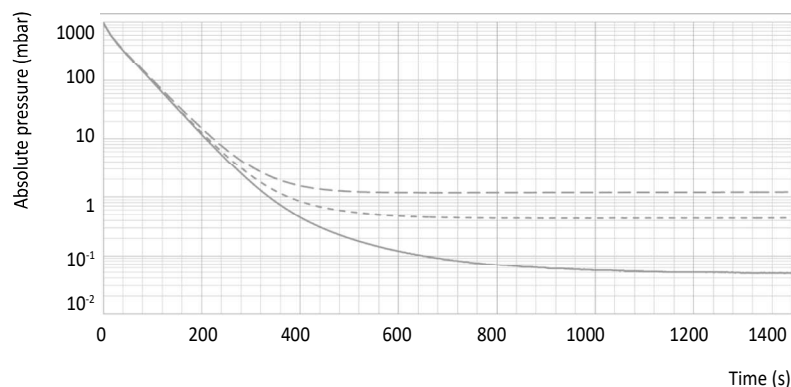


**3 000 hours
usual maintenance**



**12 000 hours
preventive maintenance**

Pumping speed on 1000 l vessel

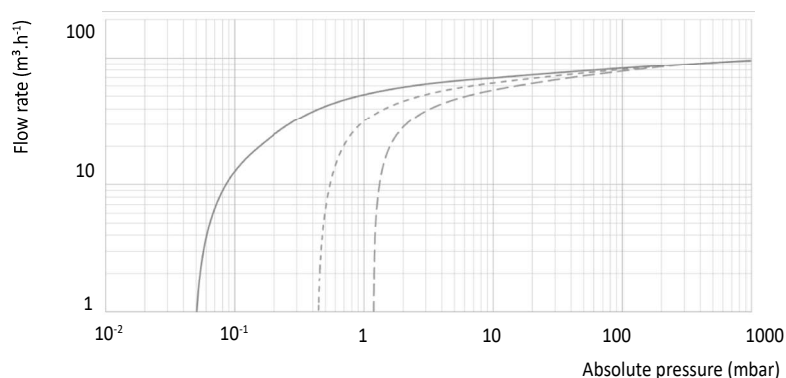


— 50 Hz - Closed gas ballast

- - - 50 Hz - Opened gas ballast
3 rotations

- . - 50 Hz - Fully opened gas ballast

Performance curves - 50 Hz



— 50 Hz - Closed gas ballast

- - - 50 Hz - Opened gas ballast
3 rotations

- . - 50 Hz - Fully opened gas ballast

Specifications are subject to be changed without notice.



II 2/2 G c,k,b IIB T4 Gb/Gb

II 2/2 D c,k,b IIIC T135°C Db/Db

EVISA E200.R ATEX



EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. They can be installed either in gas or dust zones or both. They can run continuously from atmospheric pressure to ultimate vacuum. They are silent and extremely robust.

- Single stage vacuum pump with an end vacuum of $6 \cdot 10^{-2}$ mbar
- High pumping speed even at low pressure
- High water vapor pumping capacity with gas ballast
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

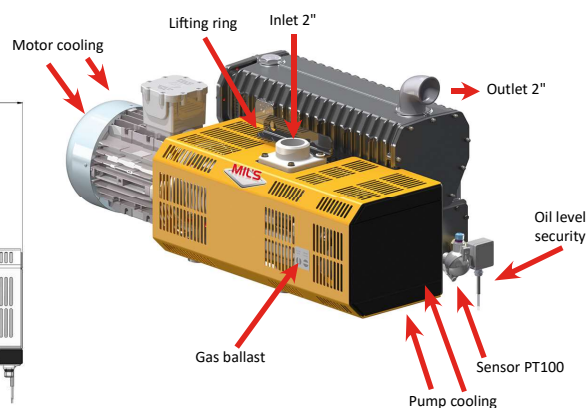
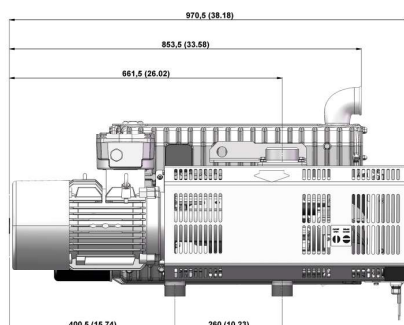
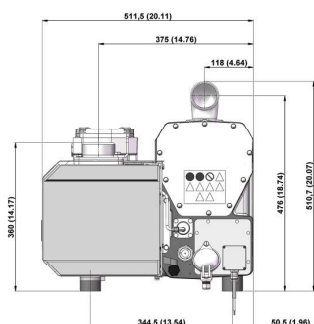
N° INERIS-EQEN : 033438/17

Technical characteristics

		50 Hz
E200.R ATEX HV	Nominal flow rate $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	200 - 117,7
	PNEUROP pumping speed ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	190 - 111,8
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	134 - 78,9
	Closed gas ballast End vacuum mbar - <i>torr</i>	$\leq 6 \cdot 10^{-2}$ - $4,5 \cdot 10^{-2}$
	Fully opened gas ballast End vacuum mbar - <i>torr</i>	≤ 1 - 0,75
	Water vapor permitted maximum pressure mbar - <i>torr</i>	20,2 - 15,1
	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	2,2
	100 % synthetic oil	MV99S
	Oil capacity l - <i>qt</i>	5 - 5,3
	Noise level dB(A)	71
IE3 electrical motor		Voltage 3ph - 230/400 V - 50 Hz
		Motor power 4 kW
		Rotation speed min^{-1} 1500
Inlet connection		2" BSP
Outlet connection		2" BSP
Weight with oil kg - <i>lb</i>		163,5- 359,4

⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

Dimensions mm (inch)



Lubricated rotary vane vacuum pumps

References

E200.R ATEX HV

WITH GAS BALLAST

DUST AND GAS ZONE

II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db

824394

Accessories and options

Oil level security

333172

Suction filter

Paper cartridge 201PA

625472

ATEX Zone

Carbon cartridge 201CH

625473

II2G IIB

Polyester cartridge 201PO

619885

II2D IIIC

Stainless steel inlet or outlet hose - 0,5 m KF

619887

Elevated base frame H = 150 mm

670806

Flame arrester DN80

625422

**PT100 intrinsically safe power supply
(assembly out of atex zone) - Output 0-10V**

362640

Maintenance kits

3 000 hours usual maintenance

724885

12 000 hours preventive maintenance

724887

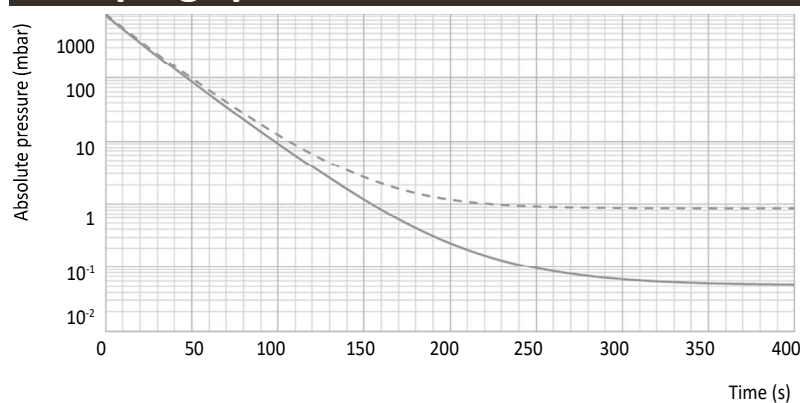


**3 000 hours
usual
maintenance**

**12 000 hours
preventive
maintenance**



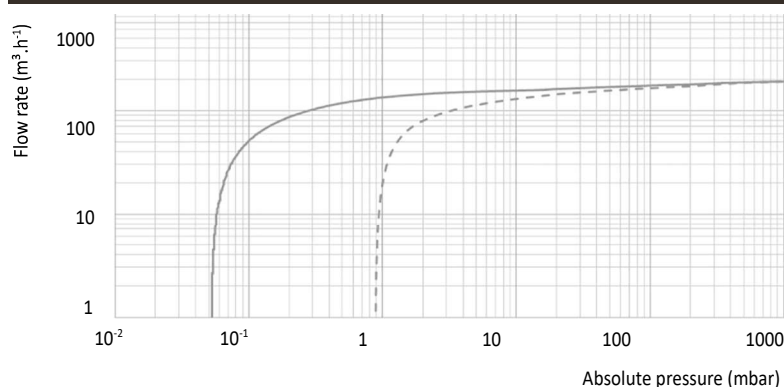
Pumping speed on 1000 l vessel



— 50 Hz - Closed gas ballast

- - - 50 Hz - With opened gas ballast

Performance curves - 50 Hz



— 50 Hz - Closed gas ballast

- - - 50 Hz - With opened gas ballast

Specifications are subject to be changed without notice.



II 2/2 G c,k,b IIB T4 Gb/Gb

II 2/2 D c,k,b IIIC T135°C Db/Db

EVISA E300.R ATEX



EVISA ATEX lubricated vane pumps are designed for a wide range of applications in potentially explosive atmospheres. They can be installed either in gas or dust zones or both. They can run continuously from atmospheric pressure to ultimate vacuum. They are silent and extremely robust.

- Single stage vacuum pump with an end vacuum of $6 \cdot 10^{-2}$ mbar
- High pumping speed even at low pressure
- High water vapor pumping capacity with gas ballast
- Integrated oil mist filter on the exhaust
- Standard temperature safety control by intrinsically safe PT100

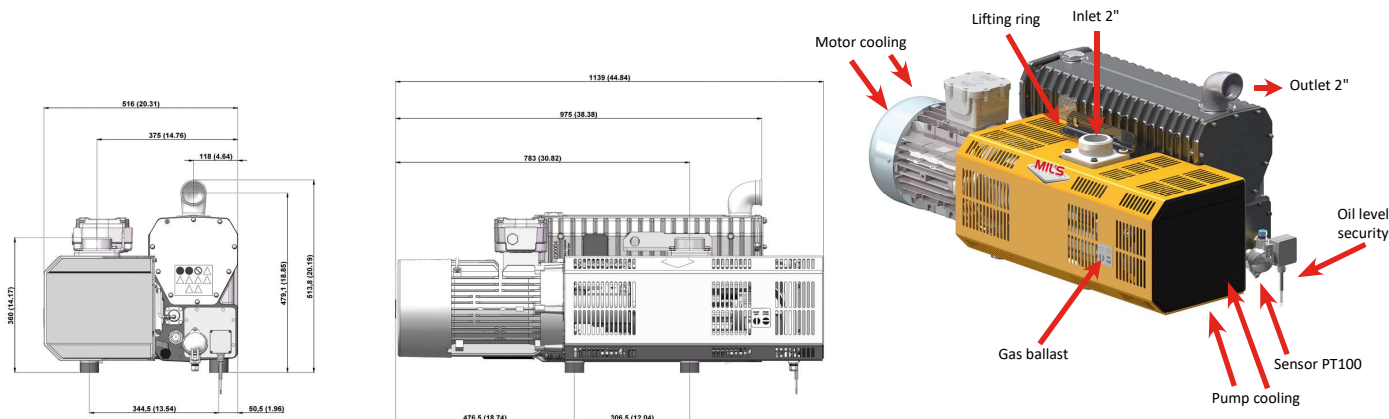
N° INERIS-EQEN : 033438/17

Technical characteristics

		50 Hz
E300.R ATEX HV	Nominal flow rate $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	300 - 176,5
	PNEUROP pumping speed ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	280 - 165
	Pumping speed at 1 mbar inlet pressure ⁽¹⁾ $\text{m}^3 \cdot \text{h}^{-1}$ - <i>cfm</i>	171 - 101
	Without gas ballast End vacuum mbar - <i>torr</i>	$\leq 6 \cdot 10^{-2}$ - $4,5 \cdot 10^{-2}$
	Fully opened gas ballast	End vacuum mbar - <i>torr</i>
		≤ 2 - 1,5
		Water vapor permitted maximum pressure mbar - <i>torr</i>
	Water vapor capacity $\text{kg} \cdot \text{h}^{-1}$	
	2,3	
	100 % synthetic oil	MV99S
	Oil capacity l - <i>qt</i>	5 - 5,3
	Noise level dB(A)	72
IE3 electrical motor	Voltage	3ph - 230/400 V - 50 Hz
	Motor power	5,5 kW
	Rotation speed min^{-1}	1500
Inlet connection		2" BSP
Outlet connection		2" BSP
Weight with oil kg - <i>lb</i>		206 - 454,2

⁽¹⁾ Measurements according to PNEUROP 6602 specifications - 20°C

Dimensions mm (inch)



Lubricated rotary vane vacuum pumps

References

E300.R ATEX HV

WITH GAS BALLAST

DUST AND GAS ZONE

II2/2G c,k,b IIB T4 Gb/Gb - II2D c,k,b IIIC T135°C Db/Db

824395

Accessories and options

Oil level security

333172

Suction filter

Paper cartridge 201PA

625472

ATEX Zone

Carbon cartridge 201CH

625473

II2G IIB

Polyester cartridge 201PO

619885

II2D IIIC

Stainless steel inlet or outlet hose - 0,5 m KF

619887

Elevated base frame H = 150 mm

616595

Flame arrester DN80

625422

**PT100 intrinsically safe power supply
(assembly out of atex zone) - Output 0-10V**

362640

Maintenance kits

3 000 hours usual maintenance

724886

12 000 hours preventive maintenance

724888

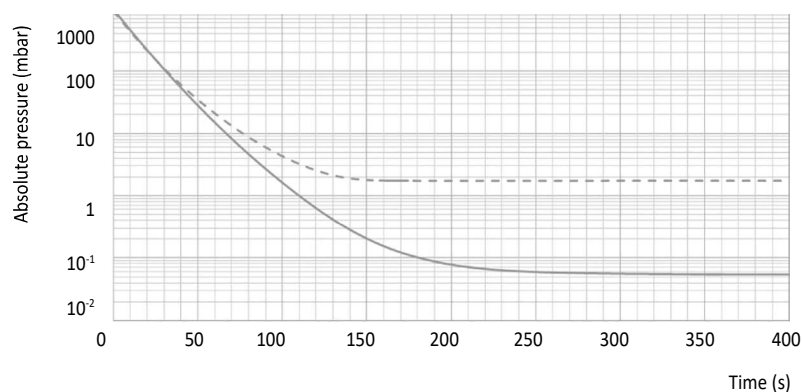


**3 000 hours
usual
maintenance**

**12 000 hours
preventive
maintenance**



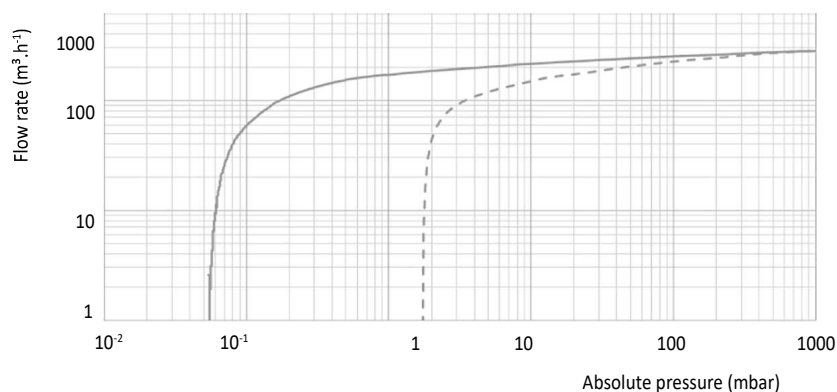
Pumping speed on 1000 l vessel



— 50 Hz - Closed gas ballast

- - - 50 Hz - With opened gas ballast

Performance curves - 50 Hz



— 50 Hz - Closed gas ballast

- - - 50 Hz - With opened gas ballast

Specifications are subject to be changed without notice.