

Rotary Vane Pumps

PASCAL series

SD series 2 stages

2005SD - 2010SD - 2015SD - 2021SD - 2033SD - 2063SD - 2100SD



SD series rotary vane pumps address the requirements of all major vacuum applications in diverse industries.

Adapted to all current non-corrosive applications :

- Lamps manufacturing
- Neon signs manufacturing
- Electron tubes evacuation
- TV tubes manufacturing
- Metallurgy
- Centrifuges....



2010SD

From 5 to 21 m³/h:

- **no oil mist pollution** at the exhaust : the natural lubrication design offers the lowest oil mist level, even with high throughputs or frequent cycling between atmosphere and ultimate pressure.
- **compact design** : reduced dimensions, choice of horizontal or vertical inlet and exhaust ports, all controls and service access located on the front.
- **optimized tightness** : integrated anti-suckback ; all static sealings secured by O-rings; external shaft seal can be renewed easily, without dismantling the pump.
- **universal single-phase and three-phase motors** : see page 18.

From 33 to 100 m³/h:

- **forced lubrication** for continuous operation at all pressures.
- **built-in anti-suckback**, activated by the oil pump, for protection of vacuum system against pressure rise.
- **rugged design** for improved efficiency and reliability.
- **universal and specific** three-phase motors, in line with international requirements (see ordering information pages 40 and 41).



2033SD

From 5 to 100 m³/h :

- **high pumping speed** from atmosphere to vacuum.
- **efficient gas ballast** for vapor pumping.
- **air cooled** for optimum performance
- **field serviceable**, using the appropriate maintenance kits.



2100SD

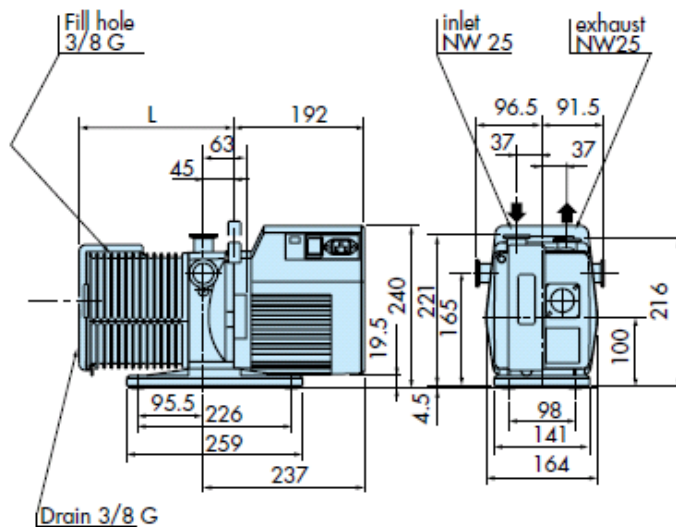
2021 SD 幫浦規格

		Units	2021SD
Nominal pumping speed (*)	50Hz	m ³ /h	20.7
	60Hz	cfm	14.6
Pneurop pumping speed (*)	50Hz	m ³ /h	15.5
	60Hz	cfm	11.8
Ultimate partial pressure (*)		mbar	10 ⁻⁴
Ultimate total pressure (*)		mbar	2.10 ⁻³
closed gas ballast			
Ultimate total pressure (*)		mbar	10 ⁻²
open gas ballast			
Water vapor capacity	50/60Hz	g/h	90/90
Water vapor pressure	50/60Hz	mbar	7/7
Weight (max)		kg (lbs)	28 (61.6)
Dimensions		see page	C06.22
Electrical motors		see page	C06.06
Max nominal power rating	50/60Hz	kW	0.45/0.55
Min ambient temperature		°C (°F)	12 (54)
Max ambient temperature		°C (°F)	45 (113)
Oil capacity		l	0.98
Inlet flange		ISO-KF	DN 25
Exhaust flange		ISO-KF	DN 25

(*) : according to Pneurop specifications: with Adixen mineral oil.

Dimensional drawings

2005SD/I/C1 - 2010SD/I/C1 - 2015SD/I/C1 - 2021SD/I/C1
1005SD - 1015SD



Specific dimensions	
Model	L mm
2005	228
2010	245
2015	270
2021	291
1005	228
1015	245

*same dimensions for single and three-phase motors



ALCATEL / ADIXEN PASCAL SERIES

2005 SD、2010SD、2015SD、2021SD Rotary Pump



單相馬達，110V/220V 電壓，可切換。

幫浦油視窗鏡-，和氣鎖裝置調整開關。

Rotary Vane Pumps

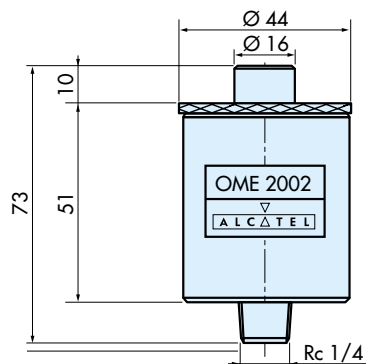
PASCAL series

Oil mist eliminators

During rotary vane pump operation, oil mist escapes from the exhaust port; mainly when pumping between atmospheric pressure and 1 mbar.

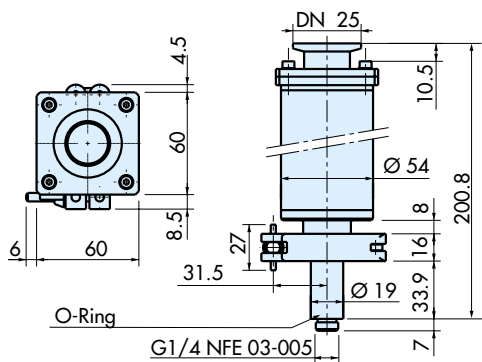
Oil mist eliminators retain oil mist contained in the exhausted gases with a high level of separation; an internal over pressure valve prevents exceeding the maximum permissible exhaust pressure.

OME 2002 I



- ❑ material: body: aluminum
..... cartridge: epoxy/glass micro-fiber
- ❑ weight: 0.1 kg 0.22 lbs
- ❑ inlet port: thread RC 1/4"
- ❑ exhaust port: Ø 16 mm
- ❑ P/N: **062886**
- ❑ replacement cartridge (single): P/N 062824

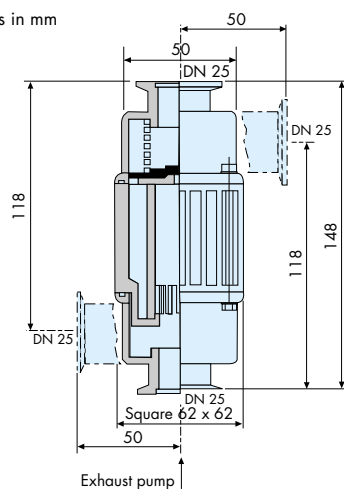
OME 2002 C



- ❑ material: body : stainless steel
..... cartridge : PTFE/glass micro-fiber
- ❑ weight: 0.9 g 2 lbs
- ❑ inlet port: thread RC 1/4"
- ❑ exhaust port: DN25 ISO-KF
- ❑ P/N: **104378**
- ❑ replacement cartridge (set of 5): P/N 066806

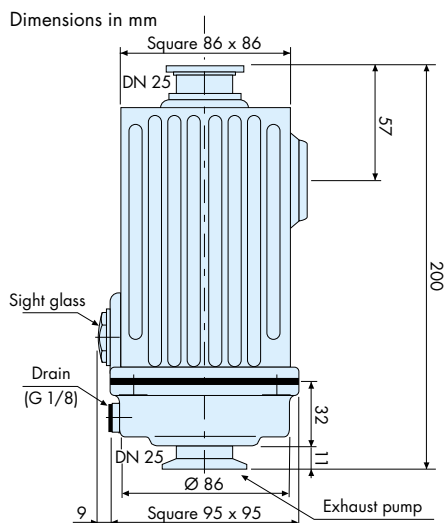
OME 25 S

Dimensions in mm



- ❑ material: body : polyamide
..... cartridge : epoxy/glass micro-fiber
- ❑ weight: 0.217kg 0.477 lbs
- ❑ inlet port/exhaust port: DN25 ISO-KF
- ❑ P/N: **104200**
- ❑ replacement cartridge, set of 5: P/N 068838
single: P/N 068304
- ❑ supplied with: 1 centering ring, 1 clamp,
1 additional angle port

OME 25 HP/HP+



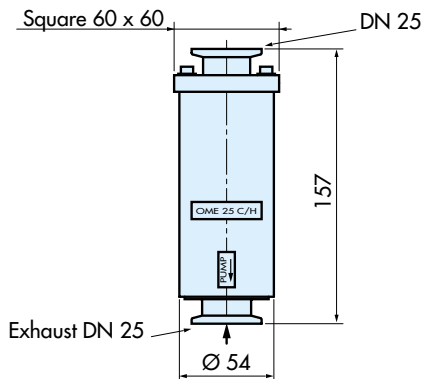
Specially designed for applications involving frequent cycling or high pressure operation; OME 25 HP is mainly dedicated to 15 m³/h and 21 m³/h rotary vane pumps.

- ❑ material: body : aluminum
..... cartridge : epoxy/glass micro-fiber
- ❑ weight: 1.2 kg 2.64 lbs
- ❑ inlet port/exhaust port: DN25 ISO-KF
- ❑ P/N: **104199**
- ❑ replacement cartridge (single): P/N 100522
- ❑ supplied with: 1 centering ring and 1 clamp

Same design as **OME HP**, incorporating a more efficient cartridge : **OME25HP+** is the next step toward completely oil free exhausted gases.

- ❑ P/N: **108341**
- ❑ replacement cartridge (single): P/N 107494
(materials: PU/PET/glass micro-fiber/PA)

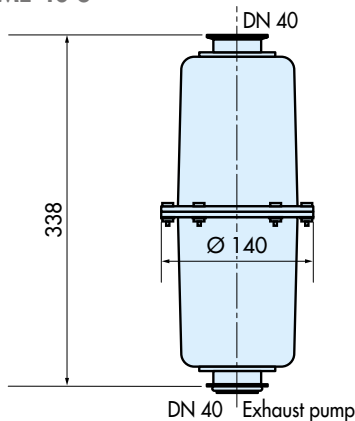
OME 25 C/H



For applications involving corrosive gases or high level of tightness.

- ❑ material: body : stainless steel
..... cartridge : PTFE/glass micro-fiber
- ❑ weight: 0.530 kg 1.77 lbs
- ❑ leak rate: $\leq 2.10^{-7}$ mbar l/s
- ❑ inlet port/exhaust port: DN25 ISO-KF
- ❑ P/N: **066849**
- ❑ replacement cartridge set of 5: P/N 066806
- ❑ supplied with: 1 centering ring and 1 clamp

OME 40 S



- ❑ material: body : aluminum
..... cartridge : epoxy/glass micro-fiber
- ❑ weight: 0.9kg 1.9 lbs
- ❑ inlet port/exhaust port: DN40 ISO-KF
- ❑ P/N: **104887**
- ❑ replacement cartridge (single): P/N 068443