

RV ATEX OIL SEALED ROTARY VANE PUMPS

PERFORMANCE YOU CAN RELY ON



ATEX RV pumps have an external ATEX classification of Ex II 2G IIC T4 and are suitable for use in potentially explosive atmospheres. They share the same internal ATEX classification as our standard RV pumps, namely Ex II 3G c IIB T4. ATEX pumps with flameproof motors require the user to provide 2-off hazardous area cable glands and cables. In addition, connection of the thermistors to an appropriate safety circuit must be made to switch off the pump if overheating occurs.

The pumps are supplied with the Gas Ballast port plugged. When pumping flammable gasses or vapours you must fit an inert gas purge to this port to dilute such gases or vapours below the lower explosive limit.



Features and Benefits

- ATEX rated spot voltage motor.
- Dual mode. Suitable for high throughput and high vacuum applications.
- Fast acting inlet valve for system protection.
- Efficient high pressure lubrication.
- Oil-tight with printed gaskets, effective shaft seals.
- Clamped-in sight glass.
- Oil box well contains filling spills.
- Hi-tech polymer blades, large diameter, easy-clean oil passages.
- Consistent, built-in quality, cast bar construction.

Performance Curves

RV ATEX Oil sealed rotary pump

RV ATEX



	RV3	RV5	RV8	RV12
Displacement				
50 Hz	3.7 m ³ h ⁻¹	5.8 m ³ h ⁻¹	9.7 m ³ h ⁻¹	14.2 m ³ h ⁻¹
	2.2 ft ³ min ⁻¹	3.4 ft ³ min ⁻¹	5.7 ft ³ min ⁻¹	8.4 ft ³ min ⁻¹
60 Hz	4.5 m ³ h ⁻¹	7.0 m ³ h ⁻¹	11.7 m ³ h ⁻¹	17 m ³ h ⁻¹
	2.6 ft ³ min ⁻¹	4.1 ft ³ min ⁻¹	6.9 ft ³ min ⁻¹	10 ft ³ min ⁻¹
Speed (Pneurop 6602)				
50 Hz	3.3 m ³ h ⁻¹	5.1 m ³ h ⁻¹	8.5 m ³ h ⁻¹	12 m ³ h ⁻¹
	2.0 ft ³ min ⁻¹	3.0 ft ³ min ⁻¹	5.0 ft ³ min ⁻¹	7.1 ft ³ min ⁻¹
60 Hz	3.9 m ³ h ⁻¹	6.2 m ³ h ⁻¹	10 m ³ h ⁻¹	14.2 m ³ h ⁻¹
	2.3 ft ³ min ⁻¹	3.7 ft ³ min ⁻¹	5.9 ft ³ min ⁻¹	8.4 ft ³ min ⁻¹

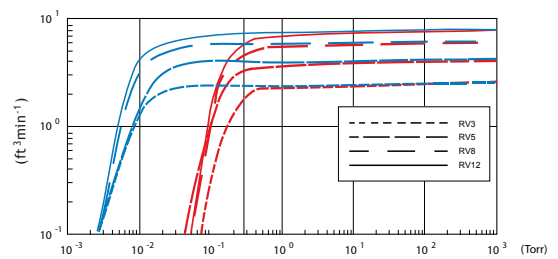
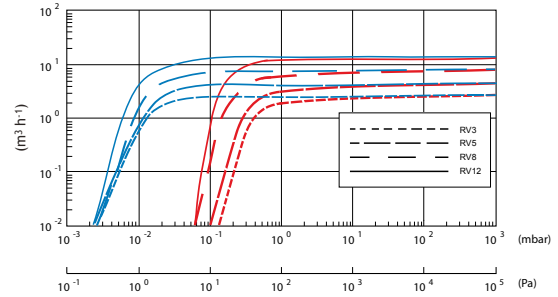
Ordering information

Product description	Order no:
ATEX RV3 115V, 1-ph, 60 Hz ExII 2G IIC T4 *	A65219986
ATEX RV3 230 V, 1-ph, 50 Hz Ex II 2G IIC T4	A65218989
ATEX RV3 400 V, 3-ph, 50 Hz Ex II 2G IIC T4	A65218992
ATEX RV5 115V, 1-ph, 60 Hz ExII 2G IIC T4 *	A65319986
ATEX RV5 230 V, 1-ph, 50 Hz Ex II 2G IIC T4	A65318989
ATEX RV5 400 V, 3-ph, 50 Hz Ex II 2G IIC T4	A65318992
ATEX RV8 115V, 1-ph, 60 Hz ExII 2G IIC T4 *	A65419986
ATEX RV8 230 V, 1-ph, 50 Hz Ex II 2G IIC T4	A65418989
ATEX RV8 400 V, 3-ph, 50 Hz Ex II 2G IIC T4	A65418992
ATEX RV12 115V, 1-ph, 60 Hz ExII 2G IIC T4 *	A65519986
ATEX RV12 230 V, 1-ph, 50 Hz Ex II 2G IIC T4	A65518989
ATEX RV12 400 V, 3-ph, 50 Hz Ex II 2G IIC T4	A65518992

* 750W motor

Each ATEX RV pump is supplied with 1 litre of Ultragrade 19 oil, inlet filter and O ring.

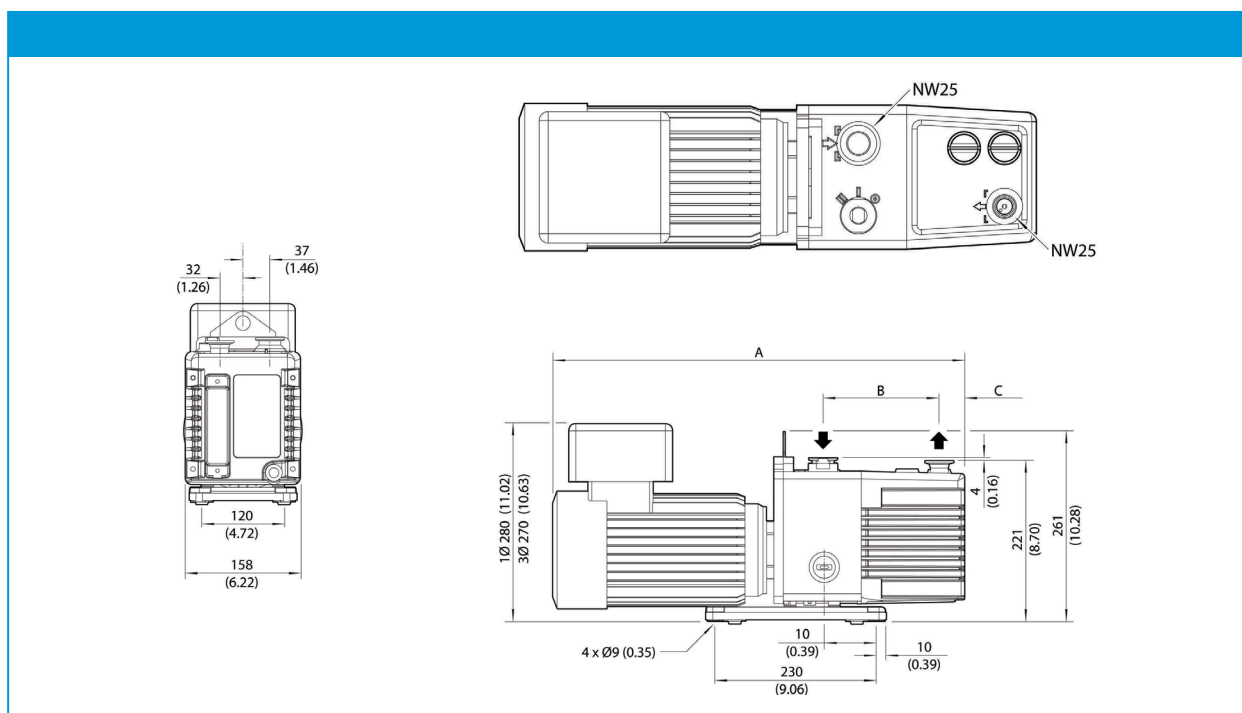
RV ATEX Performance Curve



Blue No gas purge

Red With inert gas purge

Dimensions



Pump	A	B	C
RV3	520 mm (20.47")	127 mm (5")	29 mm (1.06")
RV5	520 mm (20.47")	127 mm (5")	29 mm (1.06")
RV8	560 mm (22.05")	161 mm (6.34")	35 mm (1.38")
RV12	580 mm (22.83")	181 mm (7.13")	35 mm (1.38")

Dimensions in mm (inch).

Technical Data



	Units	RV3 ATEX	RV5 ATEX	RV8 ATEX	RV12 ATEX
Displacement					
50 Hz	m ³ h ⁻¹ /ft ³ min ⁻¹	3.7/2.2	5.8/3.4	9.7/5.7	14.2/8.4
60 Hz	m ³ h ⁻¹ /ft ³ min ⁻¹	4.5/2.6	7/4.1	11.7/6.9	17/10
Speed (Pneurop 6602)					
50 Hz	m ³ h ⁻¹ /ft ³ min ⁻¹	3.3/2	5.1/3	8.5/5	12/7.1
60 Hz	m ³ h ⁻¹ /ft ³ min ⁻¹	3.9/2.3	6.2/3.6	10/5.9	14.2/8.4
Max allowed outlet pressure	bar gauge/psig	0.2/2.8			
Max allowed inlet and gas purge pressure	bar gauge/psig	0.5/7			
Nominal rotation speed 50/60 Hz	rpm	1430/1710			
Motor power 50/60 Hz	W	550 (750 for 115V 1ph 60Hz)			
Weight (without oil)	kg/lb	28/61.6		31/68.2	
Inlet flange		NW25			
Exhaust flange		NW25			
Operating temperature range	°C	12-40			