



DUO 11 ATEX

Magnetically coupled rotary vane pumps with ATEX certification.
Meet highest requirements for explosion protection.



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Explosion protected

Pfeiffer Vacuum has developed the Duo 11 ATEX rotary vane pump especially for processes that take place in explosive environments or for evacuating explosive gases and vapors. It is certified in accordance with ATEX directive 2014/34/EU and meets the high requirements for explosion protection.

The ATEX certification is valid for the interior and exterior of the pump. The pump corresponds to equipment category 3G and temperature class T4. All gases up to explosive group IIC can be pumped.

Magnetically coupled

The pumping speed is 9 m³/h at 50 Hz and 10.5 m³/h at 60 Hz. The Duo 11 ATEX is equipped with a frictionless magnetic coupling. Thus, the shaft seals that are usually installed in rotary vane pumps can be omitted. The magnetic coupling provides additional safety that is particularly important when the pump is used in potentially explosive atmospheres: No gases can leak through defective seals from the interior of the pump to the exterior.

Safe

For the operation of the pump, the terms of the operating instructions apply. We are pleased to provide you with the right solution for your specific application!

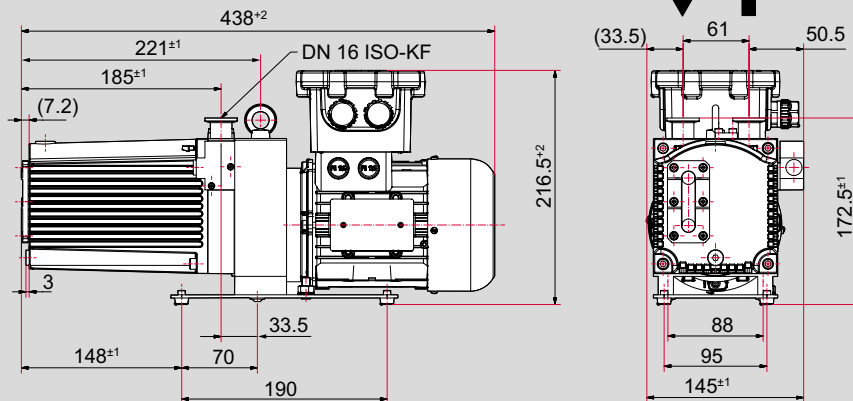
Customer benefits

- Installation without additional flame arresters possible
- Pump is hermetically sealed – no zone entrainment of explosive gases
- Explosion proof internally and externally – flexible operation
- Ex-proof three-phase motor with low noise and vibration
- Most compact pump in class for easy integration

Applications

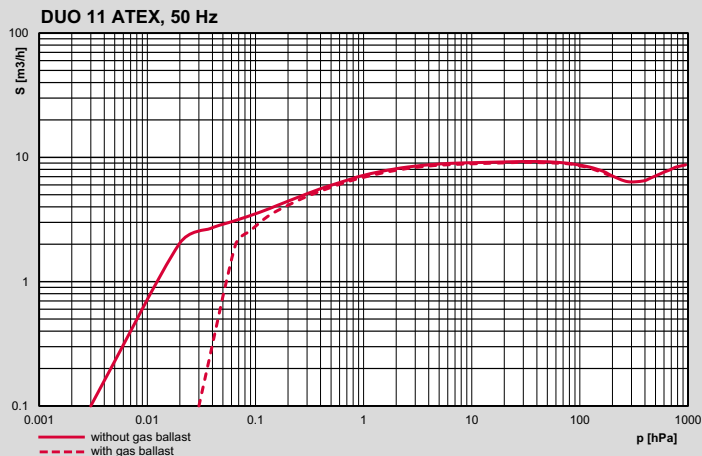
- Mass spectrometry
- Chemical laboratories
- Gas handling
- Biotechnology

Dimensions



Dimensions in mm

Pumping speed



Technical data

| | Duo 11 ATEX |
|--|--------------------------------|
| Dimensions (L x W x H) | 440 x 146 x 219 mm |
| Flange (in) | DN 16 ISO-KF |
| Flange (out) | DN 16 ISO-KF |
| Pumping speed at 50 Hz | 9 m³/h |
| Pumping speed at 60 Hz | 10.5 m³/h |
| Ultimate pressure with gas ballast | $3 \cdot 10^{-2}$ hPa |
| Ultimate pressure without gas ballast | $3 \cdot 10^{-3}$ hPa |
| Exhaust pressure, min | 250 hPa |
| Exhaust pressure, max | 1,500 hPa |
| Rotation speed at 50 Hz | 3,000 min ⁻¹ |
| Rotation speed at 60 Hz | 3,600 min ⁻¹ |
| Leak rate safety valve | $\leq 1 \cdot 10^{-5}$ Pa m³/s |
| Emission sound pressure level without gas ballast at 50 Hz | 53 dB (A) |
| Ambient temperature | 12–40 °C |
| Protection category | IP66 |
| Rated power 50 Hz | 0.25 kW |
| Rated power 60 Hz | 0.3 kW |
| Transport-und Lagertemperatur | -10 – +40 °C |
| Operating fluid | P3 |
| Operating fluid filling | 0.5 l |
| Weight | 15.3 kg |
| Cooling method, standard | Air |
| Typical ultimate pressure according to PNEUROP | |

Order number

| | |
|-------------|--------------|
| Duo 11 ATEX | Order number |
| | PK D59 905 |

上海伯东--您理想的真空合作伙伴!

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perfect vacuum solution?
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