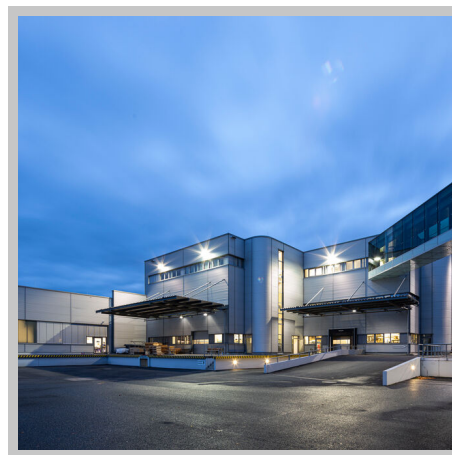


[illegible]

**PFEIFFER** 

# DuoVane 300

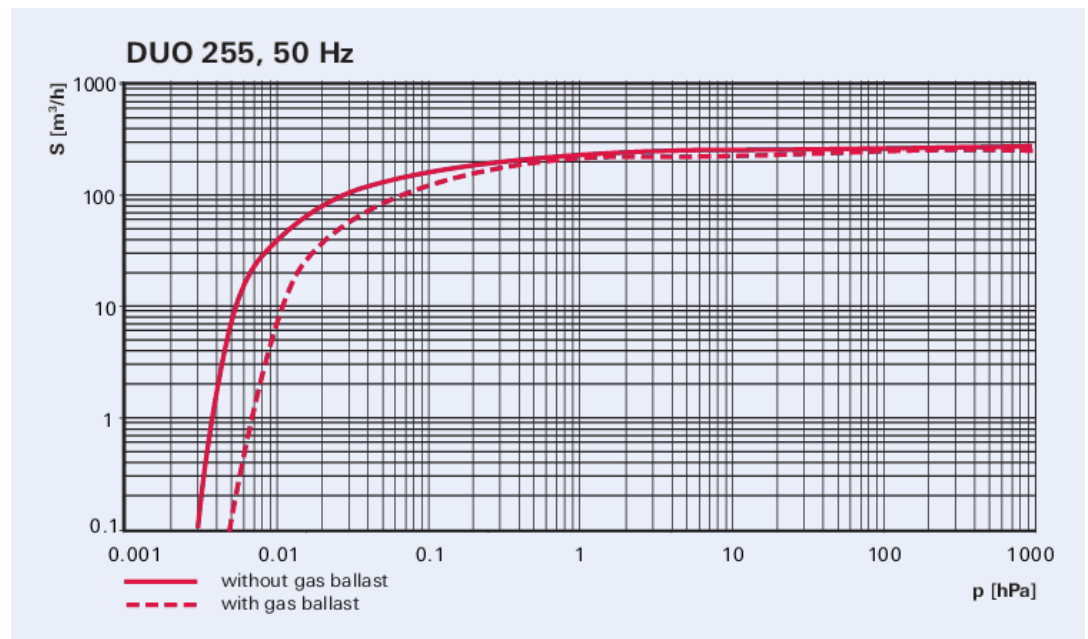


Illustration only

## DuoVane 300, 3-phase motor, 3TF, 230/400 V, 50 Hz | 265/460 V, 60 Hz

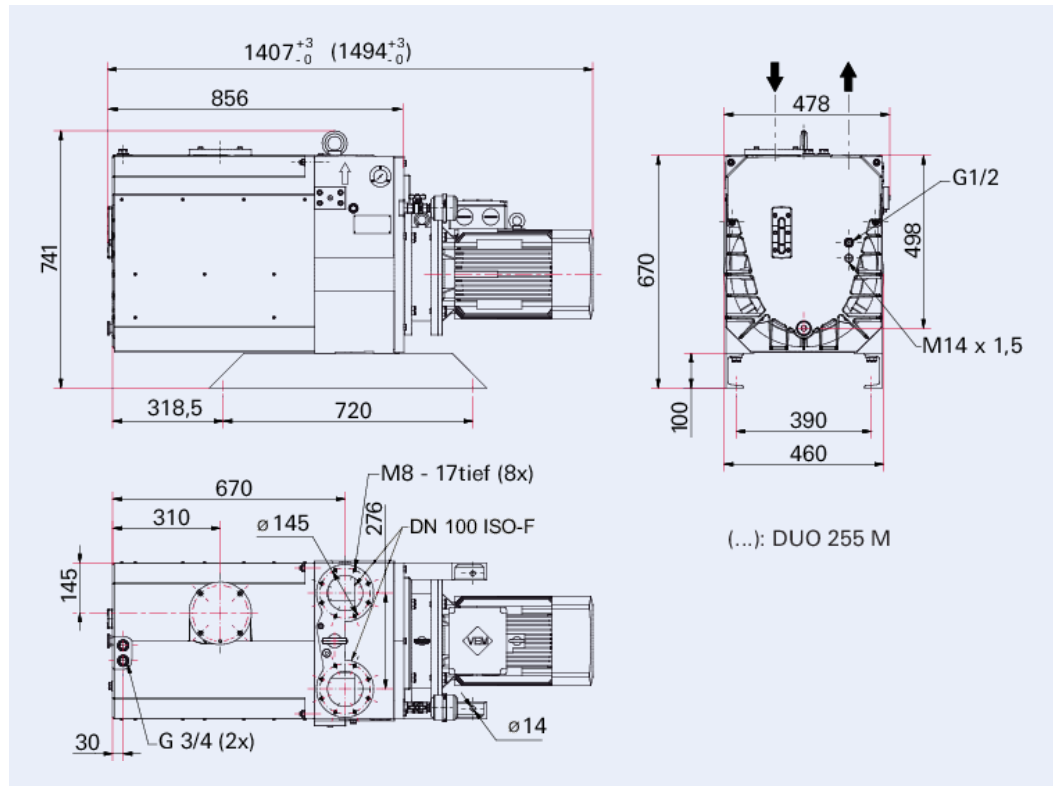
- Dual-stage, high-performance rotary vane pump with a pumping speed up to 300 m<sup>3</sup>/h
- 3-phase motor for mains voltage 230/400 V (±5 %) 50 Hz or 265/460 V (±5 %) 60 Hz
- With temperature sensor (3TF) for optimum motor protection
- Integrated gas ballast and HV safety valve
- For all low and medium vacuum applications
- Special feature: Various motor voltages for worldwide employment
- Other motor voltages available on request

## Characteristics



# DuoVane 300

## Dimensions



# DuoVane 300

| Technical Data                     | DuoVane 300, 3-phase motor, 3TF,<br>230/400 V, 50 Hz   265/460 V, 60 Hz                                     |
|------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Gas ballast                        | Yes                                                                                                         |
| Operating fluid                    | P3                                                                                                          |
| Cooling method                     | Air (Forced convection)                                                                                     |
| Motor type                         | 3-phase motor                                                                                               |
| Pumping speed category             | 300 m <sup>3</sup> /h                                                                                       |
| Motor for region                   | Asia   Europe                                                                                               |
| Vacuum range min                   | 4 · 10 <sup>-3</sup> hPa                                                                                    |
| Vacuum range max                   | 3 · 10 <sup>-3</sup> hPa                                                                                    |
| Ambient temperature                | 12 – 40 °C                                                                                                  |
| Temperature: Storage, max          | 55 °C                                                                                                       |
| Temperature: Storage, min          | -25 °C                                                                                                      |
| Input voltage(s)                   | 230 / 400 V AC, 50 Hz   265 / 460 V AC (±5 %), 60 Hz                                                        |
| Ultimate pressure with gas ballast | 4 · 10 <sup>-3</sup> hPa   3 · 10 <sup>-3</sup> Torr   4 · 10 <sup>-3</sup> mbar                            |
| Leakage rate safety valve          | 1 · 10 <sup>-5</sup> Pa m <sup>3</sup> /s   7.5 · 10 <sup>-5</sup> Torr l/s   1 · 10 <sup>-4</sup> mbar l/s |
| Exhaust pressure, max.             | 1,500 hPa   1,125 Torr   1,500 mbar                                                                         |
| Rotation speed at 60 Hz            | 1,200 rpm   1,200 min <sup>-1</sup>                                                                         |
| Rotation speed at 50 Hz            | 1,000 rpm   1,000 min <sup>-1</sup>                                                                         |
| Pumping speed at 60 Hz             | 300 m <sup>3</sup> /h   176.58 cfm   5,000.1 l/min                                                          |
| Pumping speed at 50 Hz             | 250 m <sup>3</sup> /h   147.15 cfm   4,166.75 l/min                                                         |
| Switch                             | No                                                                                                          |
| Exhaust pressure, max.             | 1,500 hPa                                                                                                   |
| Motor protection                   | 3TF                                                                                                         |
| Mains cable                        | No                                                                                                          |
| Rated power 50 Hz                  | 7.5 kW                                                                                                      |
| Rated power 60 Hz                  | 9 kW                                                                                                        |
| Final pressure with gas ballast    | 4 · 10 <sup>-3</sup> hPa                                                                                    |
| Number of pumping stages           | Two stage                                                                                                   |
| Rotation speed at 60 Hz            | 1,200 rpm                                                                                                   |
| Rotation speed at 50 Hz            | 1,000 rpm                                                                                                   |
| Operating fluid amount             | 25 l                                                                                                        |
| Exhaust pressure, min.             | Atmospheric pressure                                                                                        |
| Weight                             | 360 kg                                                                                                      |
| Pumping speed at 60 Hz             | 300 m <sup>3</sup> /h                                                                                       |
| Pumping speed at 50 Hz             | 250 m <sup>3</sup> /h                                                                                       |

# DuoVane 300

|                         |              |
|-------------------------|--------------|
| Connection flange (out) | DN 100 ISO-F |
|-------------------------|--------------|

|                                                                         |                                                                                 |
|-------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Order number</b>                                                     | <b>DuoVane 300, 3-phase motor, 3TF,<br/>230/400 V, 50 Hz   265/460 V, 60 Hz</b> |
| DuoVane 300, 3-phase motor, 3TF,<br>230/400 V, 50 Hz   265/460 V, 60 Hz | PK D48 602 E                                                                    |

|                                                        |                                                                                 |
|--------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>Accessories</b>                                     | <b>DuoVane 300, 3-phase motor, 3TF,<br/>230/400 V, 50 Hz   265/460 V, 60 Hz</b> |
| Set of seals for DUO 255 from PK D48 ... C             | PK E00 025 -T                                                                   |
| Maintenance kit for DUO 255                            | PK E01 033 -T                                                                   |
| Overhaul kit for DUO 255 from PK D48 ... C             | PK E02 038 -T                                                                   |
| Pumping system for DUO 255, prepared for P3,<br>tested | PK E03 013 -T                                                                   |
| HV valve kit for DUO 255                               | PK E04 008 -T                                                                   |
| Pressure valve kit for DUO 255 stage II                | PK E05 011 -T                                                                   |
| Pressure valve kit for DUO 125/255 stage I             | PK E05 013 -T                                                                   |
| Coupling kit for DUO 255                               | PK E06 006 -T                                                                   |
| Set of vanes for DUO 255                               | PK E08 028 -T                                                                   |



Errors and/or changes excepted. - 9/30/2025

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