



Pfeiffer DUO 1.6, 1.6M, 3, 3M

Technical Specifications

	Duo 1.6	Duo 3
Flange (out)	DN 16 ISO-KF	DN 16 ISO-KF
Flange (in)	DN 16 ISO-KF	DN 16 ISO-KF
Exhaust pressure. max.	1500 hPa	1500 hPa
Operating fluid filling	0.4 l	0.4 l
Rotation speed at 50 Hz	1,500 min ⁻¹	3,000 min ⁻¹
Rotation speed at 60 Hz	1,800 min ⁻¹	3,600 min ⁻¹
Emission sound pressure level without gas ballast at 50 Hz	42 dB (A)	50 dB (A)
Ultimate pressure with gas ballast	3 · 10 ⁻³ hPa	3 · 10 ⁻² hPa
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa	3 · 10 ⁻³ hPa
Weight	9.6 kg	11.5 kg
Cooling method. standard	Air	Air
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s	≤ 1 · 10 ⁻⁵ Pa m ³ /s
Rated power 50 Hz	0.075 kW	0.15 kW
Rated power 60 Hz	0.090 kW	0.18 kW
Pumping speed at 50 Hz	1.25 m ³ /h	2.5 m ³ /h
Pumping speed at 60 Hz	1.50 m ³ /h	2.9 m ³ /h
Switch	Yes	Yes
Protection category	IP 40	IP 40
Ambient temperature	12–40 °C	12–40 °C
	Duo 1.6 M	Duo 3 M
Flange (out)	DN 16 ISO-KF	DN 16 ISO-KF
Flange (in)	DN 16 ISO-KF	DN 16 ISO-KF
Exhaust pressure. max.	1500 hPa	1500 hPa
Operating fluid filling	0.4 l	0.4 l
Rotation speed at 50 Hz	1,500 min ⁻¹	3,000 min ⁻¹
Rotation speed at 60 Hz	1,800 min ⁻¹	3,600 min ⁻¹
Emission sound pressure level without gas ballast at 50 Hz	42 dB (A)	50 dB (A)
Ultimate pressure with gas ballast	3 · 10 ⁻³ hPa	3 · 10 ⁻² hPa
Ultimate pressure without gas ballast	3 · 10 ⁻³ hPa	3 · 10 ⁻³ hPa
Weight	10.5 kg	12 kg
Cooling method. standard	Air	Air
Leak rate magnetic coupling (MC version)	≤ 1 · 10 ⁻⁷ Pa m ³ /s	≤ 1 · 10 ⁻⁷ Pa m ³ /s
Leak rate safety valve	≤ 1 · 10 ⁻⁵ Pa m ³ /s	≤ 1 · 10 ⁻⁵ Pa m ³ /s
Rated power 50 Hz	0.075 kW	0.15 kW
Rated power 60 Hz	0.090 kW	0.18 kW
Pumping speed at 50 Hz	1.25 m ³ /h	2.5 m ³ /h
Pumping speed at 60 Hz	1.50 m ³ /h	2.9 m ³ /h
Switch	Yes	Yes
Protection category	IP 40	IP 40
Ambient temperature	12–40 °C	12–40 °C

Sound pressure level according to ISO 3744. class 2; Typical ultimate pressure according to PNEUROP



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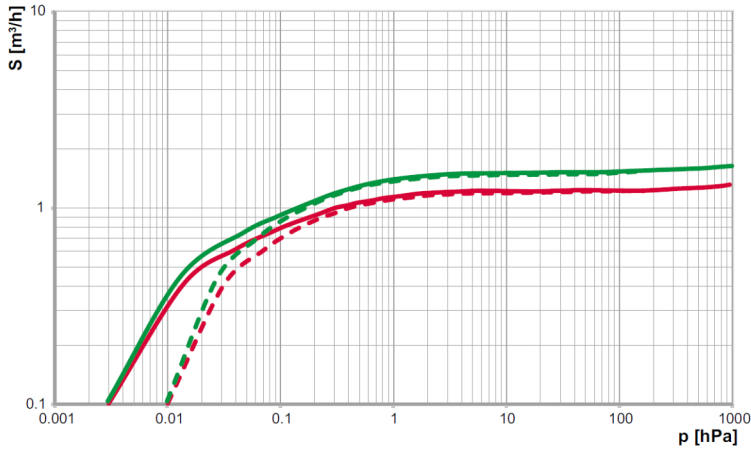
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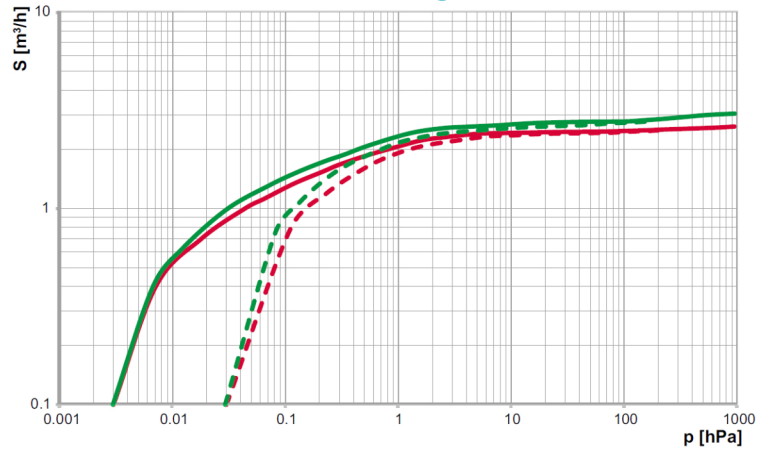
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Pfeiffer DUO 1.6, 1.6M, 3, 3M Pumping Curves

DUO 1.6(M)

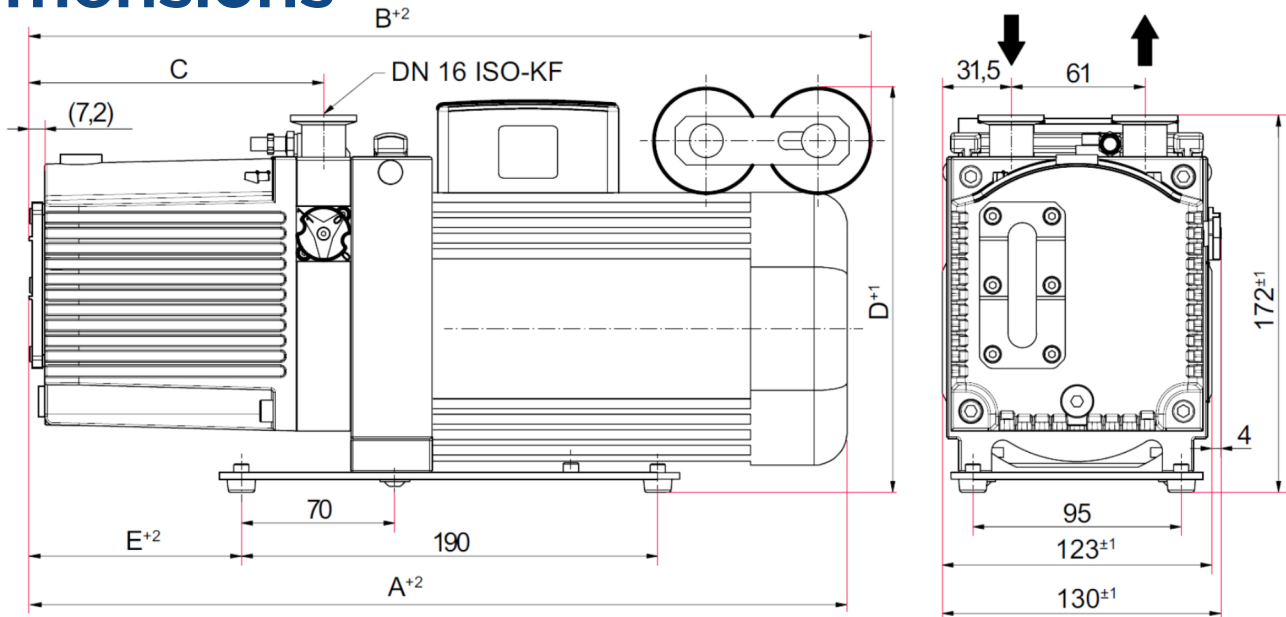


DUO 3(M)



- without gas ballast - 50 Hz
- - - with gas ballast - 50 Hz
- without gas ballast - 60 Hz
- - - with gas ballast - 60 Hz

Dimensions



	Duo 1.6	Duo 1.6 M / Duo 1.6 MC	Duo 3	Duo 3 M / Duo 3 MC
A	315.5	357.5	309	351
B	334.5	376.5	335	377.5
C	123	123	123	123
D	192	192.5	187	187.5
E	85.5	85.5	85.5	85.5



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Pfeiffer DUO 1.6, 1.6M, 3, 3M Features & Benefits

- two stage rotary vane pump
- integrated gas ballast & HV safety valve
- magnetically coupled
- long service life
- clean & environmentally friendly
- various motor voltages for worldwide employment
- integrated, hydraulically controlled high-vacuum safety valve
- compact design & optimized cooling make for great system integration
- integrated connection for oil return simplifies retrofitting of oil mist filter

Applications

- low & medium vacuum
- backing pump for turbo & roots pumps
- general laboratory use
- analytics
- chemical laboratory
- freeze drying
- process engineering
- mass spectrometry
- optical coating

