

# BA 501

Single-stage rotary vane pump with a pumping speed of 500 m<sup>3</sup>/h

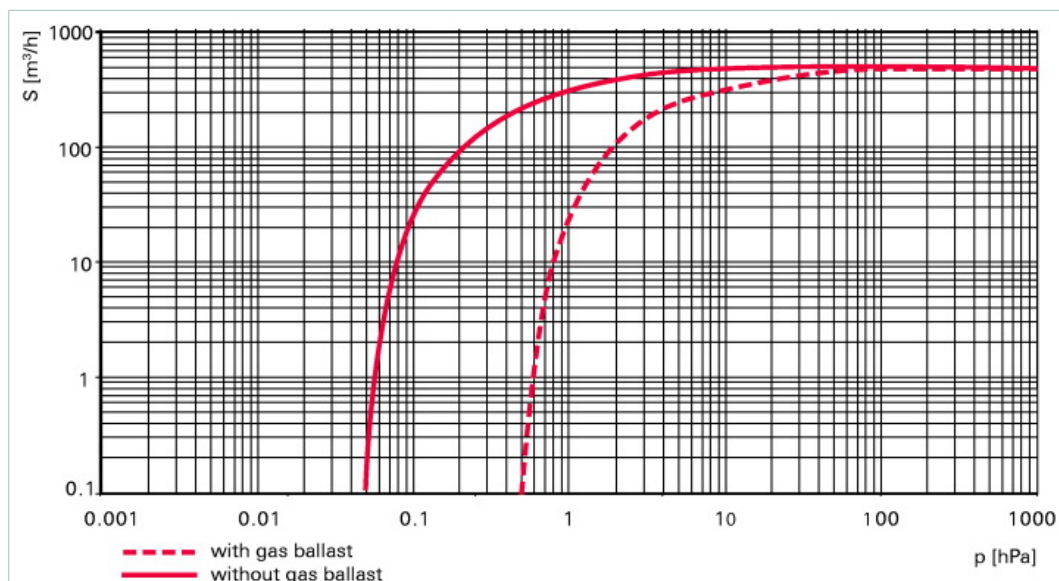




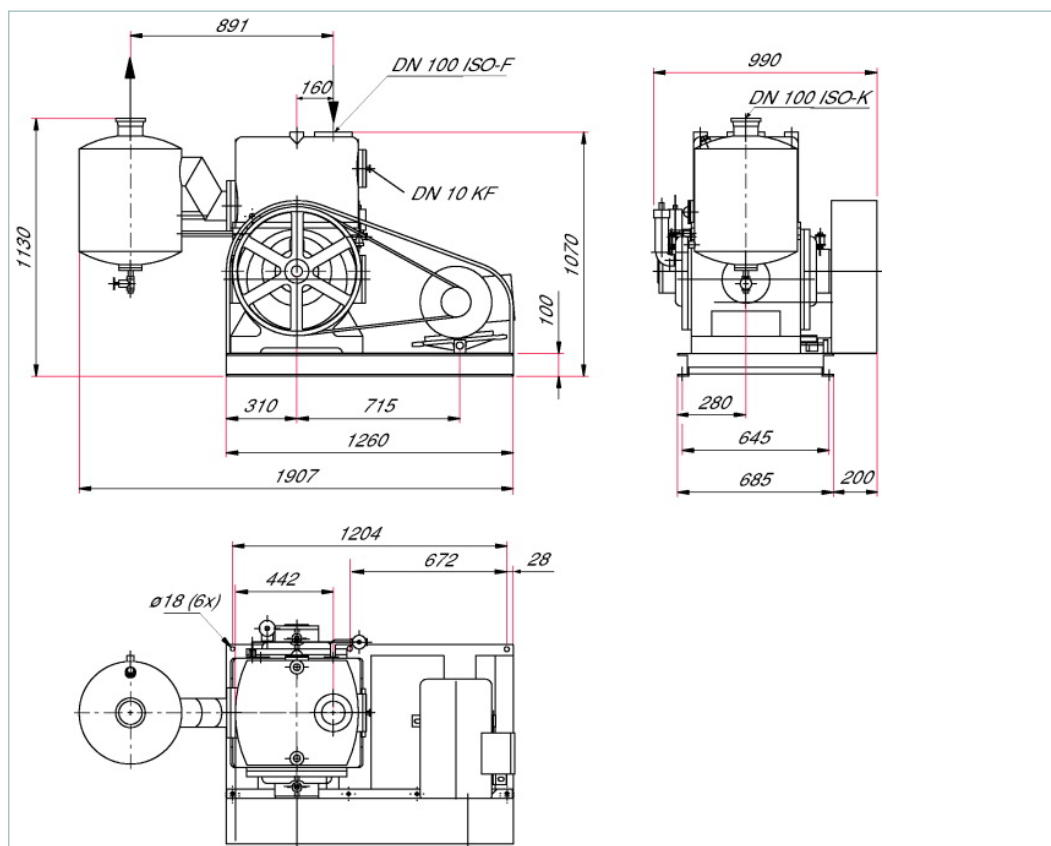
Similar Image

## BA 501, 3-phase motor, 460 V, 60 Hz, without HV safety valve

- Single-stage, high-performance rotary vane pump with a pumping speed of 500 m<sup>3</sup>/h
- 3-phase motor for 460 V (± 5 %) 60 Hz supply voltage
- Process integrity thanks to integrated gas ballast valve
- Without HV safety valve
- For low and medium vacuum applications



### Dimensions



Technical Data		BA 501, 3-phase motor, 460 V, 60 Hz, without HV safety valve
Ambient temperature		12-40 °C   53.6-104 °F   285-313 K
Cooling method, standard		Water
Cooling water consumption		> 90 l/h
Cooling water pressure		2,000-10,000 hPa   1,500-7,500 Torr   2,000-10,000 mbar
Cooling water temperature		10-30 °C   50-86 °F   283-303 K
Emission sound pressure level without gas ballast at 60 Hz		≤ 65 dB (A)
Exhaust pressure, max.		1,500 hPa   1,125 Torr   1,500 mbar
Exhaust pressure, min.		Atmospheric pressure hPa
Flange (in)		DN 100 ISO-F
Flange (out)		DN 100 ISO-K
Mains requirement: voltage 60 Hz		460 (± 5%) V
Motor protection		3TF
Motor version		3-phase Motor
Nominal rotation speed at 60 Hz		1800 min <sup>-1</sup>
Nominal rotation speed pump, 60 Hz		345 min <sup>-1</sup>
Operating fluid		P3
Operating fluid filling		45 l
Protection category		IP 55
Pumping speed at 60 Hz		500 m <sup>3</sup> /h
Rated power 60 Hz		18 kW
Rotation speed at 50 Hz		345 min <sup>-1</sup>
Temperature: Operating		80 °C   176 °F   353 K
Ultimate pressure with gas ballast		1 hPa   0.75 Torr   1 mbar
Ultimate pressure without gas ballast		5 · 10 <sup>-2</sup> hPa   3.75 · 10 <sup>-2</sup> Torr   5 · 10 <sup>-2</sup> mbar
Weight: with motor		1,100 kg   2,425.06 lb
Order number		
BA 501		PK C43 637

Accessories	
<b>Accessories</b>	
KAS 100, condensate separator for pumping speeds up to 630 m <sup>3</sup> /h	PK Z10 012
<b>Accessories HenaLine</b>	
SAS 100 dust separator, DN 100 ISO-K, polyester filter	PK Z60 512
<b>Accessories UnoLine</b>	
SAS 16, DN 16 ISO-KF, polyester filter	PK Z60 506
<b>Accessories UnoLine Plus</b>	
Conversion kit for gas ballast valve to KF connection	PK 133 863 -T
Cooling water connection unit for BA 251/501	PK 133 100 -T
FAK 100, activated carbon filter	PK Z30 012
Magnetic gas ballast valve 220 V - 50 Hz	PK V52 001
Oil return unit, ORF 005, standard version	PK Z90 065
ONF 160, oil mist filter for pumping speeds of up to 500 m <sup>3</sup> /h	PK Z40 014
Operating fluid level monitoring, 24 V DC for BA 251/501	PK 133 115 -T
Pressure monitor for cooling water circulation system BA 251/501	P 4747 161 MF
PTC-resistor tripping device	P 4768 051 FQ
Resistance thermometer PT 100	PK 132 101 -T
Supporting frame for ONF 160 with BA 501	PK 133 904 -T
VFS 010, Air venting valve 24 V DC	PK V52 024
Vibration isolators for BA 251/501	PK 132 855 -T
<b>Angle valves, electropneumatic, with PI, with PV, DN 63 to 160 ISO-K</b>	
EVB 100 PA, Angle valve, electropneumatic, with PI, with PV, 24 V DC	PF B28 201
<b>ISO-K Reducer, Straight</b>	
Reducer, Straight, Stainless Steel 304/1.4301, DN 160/100 ISO-K	320RRG160-100-50
<b>Consumables</b>	
P3, mineral oil, 1 l	PK 001 106 -T
P3, mineral oil, 5 l	PK 001 107 -T
P3, mineral oil, 20 l	PK 001 108 -T