

Product-Information

TRIVAC D 8 B

TRIVAC D 8 B
Cat. Nr.: 11256



Product-Description:

The TRIVAC B is the logical step ahead within the well-proven TRIVAC concept. Here the performance and the characteristics of the pumps have been adapted without compromise to market requirements. The TRIVAC-B pumps with their comprehensive range of accessories have proven themselves time and again as rugged pumps in many and varied applications.

The inner body is assembled from individual parts without sealing components. The parts are pinned in order to ensure easy disassembly and reassembly of the parts.

All pumps from the D 4 B to the D 25 B model are equipped either with single-phase AC or three-phase AC motors.

Moreover, all pumps of the B series are available also without the motor.

In the TRIVAC B, the pump unit and the motor are linked by an elastic coupling.

The TRIVAC B range is a modular system which divides into three groups:

TRIVAC 4/8 Series

Product-Illustration

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TRIVAC 16/25 Series
TRIVAC 40/65 Series

Advantages to the User

- All basic models (single-phase and three-phase motor) are certified in accordance with 94/9/EG (ATEX) (category 3 inside)
- High water vapor tolerance
- Continuous operation even at 1000 mbar
- Built-in oil pump; pressure-lubricated sliding bearings
- All controls as well as the oil sight glass are located on the front face
- Either vertical or horizontal intake and exhaust ports
- Exchangeable inner body
- Anti-suckback valve controlled via the oil pressure
- Free of yellow metals
- Service-friendly
- Ideal as backing pump for medium and high vacuum applications, because of low oil backstreaming
- Highly leaktight (He E3 capable)

Supplied Equipment

Small flanges, centering and clamping rings. The intake flange contains a dirt trap.

A carrying handle is standard for all pumps up to the D 25 B. TRIVAC B pumps with single phase motors are delivered with main cord and main plug, ready for immediate operation. Standard TRIVAC B pumps come with a filling of N 62 special oil (HE-200 in the U.S.), others with special oil fillings can be specified.

Custom Models

- Brake fluid
- Oils for refrigerating machines, e.g. ester oils for refrigerant circuits with R 134 a
- Pressure burst resistant (for the new refrigerants propane and isobutane)
- He E3-tight (for cryostats)
- Special motors

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ALL PUMPS ARE SUBJECTED TO A VACUUM TEST BEFORE DELIVERY!

3-ph. motor, 230/400 V, 50 Hz /250/440 V, 60 Hz 1)

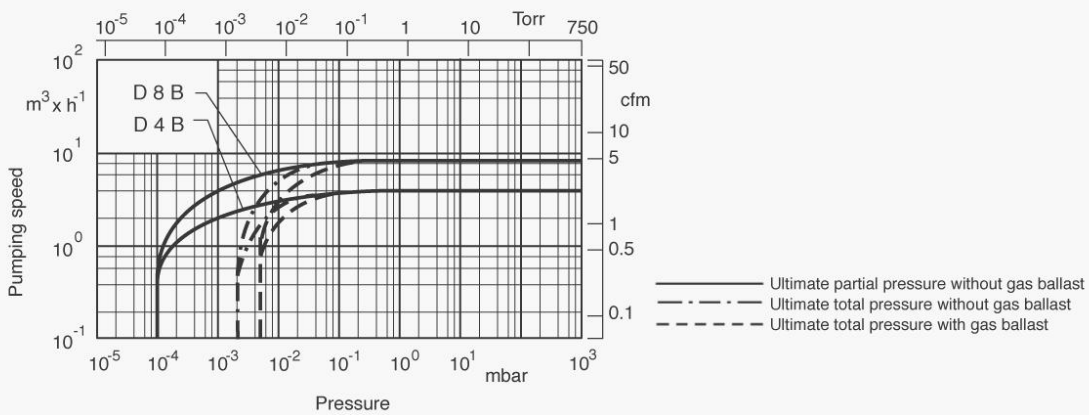
Description	Unit	Value
Nominal pumping speed 1)	m E3 x h E-1 (cfm)	9.7 (5.7) / 11.6 (6.9)
Pumping speed 1)	m E3 x h E-1 (cfm)	8.5 (5.0) / 10.2 (6.0)
Ultimate partial pressure without gas ballast 1)	mbar (Torr)	10 E-4 (0.75 x 10 E-4)
Ultimate total pressure without gas ballast 1)	mbar (Torr)	< 2 x 10 E-3 (< 1.5 x 10 E-3)
Ultimate total pressure with gas ballast 1)	mbar (Torr)	< 5 x 10 E-3 (< 3.8 x 10 E-3)
Water vapor tolerance 1)	mbar (Torr)	25 (18.8)
Water vapor capacity	gm/h	157
Oil filling, min./max.	l (qt)	0.3/0.9 (0.3/0.95)
Noise level 2) to DIN 45 635, without/with gas ballast	dB(A)	50/52
Admissible ambient temperature	°C (°F)	12 - 40 (54 - 104)
Motor rating 2)	W (HP)	370 (0.50)
Motor voltage	V	230/400 / 250/440
Voltage tolerance	%	+/- 5
Voltage range	V	218-242/380-420 / 240-277/415-480
Nominal current	A	1.95/1.12 / 1.73/1.0
Nominal speed	rpm	1500/1800
Type of protection 3)	IP	54
Weight 2)	kg (lbs)	21.2 (46.7)
Connections, intake and exhaust	DN	16 KF
1) To DIN 28 400 and following numbers		
2) Weight, motor rating and noise levels for the pumps with global version 230 V, 50 Hz AC motor only.		

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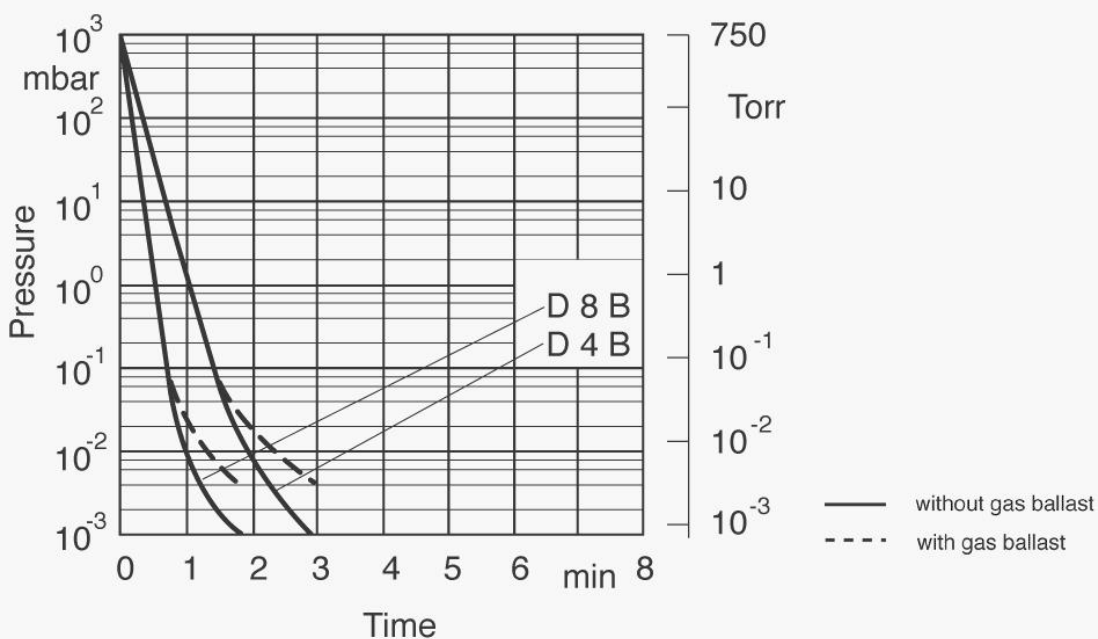
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Illustrations

Pumping speed characteristics at 50 Hz



Pump-down characteristics of a 10 l vessel at 50 Hz



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Illustrations

Type	DN		a	b	b ₁	b ₂	c	e	e ₁	h	h ₁	h ₂	h ₃	h ₄	l	l ₁	m	n	o
D 4 B (Part No. 113 04, 113 08, 113 09)	16 KF	mm	75	162	147	132	100	-	170	265	215	200	230	259	-	455	198	99	108
		in.	2.95	6.38	5.79	5.23	3.94	-	6.69	10.43	8.46	7.87	9.06	10.20	-	17.91	7.80	3.90	4.25
D 4 B (Part No. 113 03, 112 45)	16 KF	mm	75	162	147	132	100	102	-	265	215	200	230	234	437	-	198	99	108
		in.	2.95	6.38	5.79	5.23	3.94	4.02	-	10.43	8.46	7.87	9.06	9.21	17.21	-	7.80	3.90	4.25
D 4 B (Part No. 112 46)	16 KF	mm	75	162	147	132	100	89	-	265	215	200	230	223	438	-	198	99	108
		in.	2.95	6.38	5.79	5.23	3.94	3.5	-	10.43	8.46	7.87	9.06	8.78	17.24	-	7.80	3.90	4.25
D 8 B (Part No. 113 14, 113 18, 113 21)	16 KF	mm	100	162	147	132	100	-	170	265	215	200	230	259	-	480	198	99	108
		in.	3.94	6.38	5.79	5.23	3.94	-	6.69	10.43	8.46	7.87	9.06	10.20	-	18.90	7.80	3.90	4.25
D 8 B (Part No. 113 13, 112 55)	16 KF	mm	100	162	147	132	100	102	-	265	215	200	230	234	462	-	198	99	108
		in.	3.94	6.38	5.79	5.23	3.94	4.02	-	10.43	8.46	7.87	9.06	9.21	18.19	-	7.80	3.90	4.25
D 8 B (Part No. 112 56)	16 KF	mm	100	162	147	132	100	89	-	265	215	200	230	223	463	-	198	99	108
		in.	3.94	6.38	5.79	5.23	3.94	3.5	-	10.43	8.46	7.87	9.06	8.78	18.23	-	7.80	3.90	4.25

