



Leybold D-16B, D-25B

Technical Specifications

		TRIVAC D 16 B two-stage		TRIVAC D 25 B two-stage	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed ¹⁾	m ³ /h (cfm)	18.9 (11.1)	22.7 (13.4)	29.5 (17.4)	35.4 (20.9)
Pumping speed ¹⁾	m ³ /h (cfm)	16.5 (9.7)	19.8 (11.7)	25.7 (15.1)	30.8 (18.2)
Ultimate partial pressure without gas ballast ¹⁾	mbar (Torr)	10 ⁻⁴ (0.75 x 10 ⁻⁴)	10 ⁻⁴ (0.75 x 10 ⁻⁴)	10 ⁻⁴ (0.75 x 10 ⁻⁴)	10 ⁻⁴ (0.75 x 10 ⁻⁴)
Ultimate total pressure without gas ballast ¹⁾	mbar (Torr)	< 2 x 10 ⁻³ (1.5 x 10 ⁻³)	< 2 x 10 ⁻³ (1.5 x 10 ⁻³)	< 2 x 10 ⁻³ (1.5 x 10 ⁻³)	< 2 x 10 ⁻³ (1.5 x 10 ⁻³)
Ultimate total pressure with gas ballast ¹⁾	mbar (Torr)	< 5 x 10 ⁻³ (3.8 x 10 ⁻³)	< 5 x 10 ⁻³ (3.8 x 10 ⁻³)	< 5 x 10 ⁻³ (3.8 x 10 ⁻³)	< 5 x 10 ⁻³ (3.8 x 10 ⁻³)
Water vapor tolerance ¹⁾	mbar (Torr)	25.0 (18.8)	25.0 (18.8)	25.0 (18.8)	25.0 (18.8)
Water vapor capacity	g/h (lbs/h)	305 (0.672)	370 (0.816)	480 (1.058)	570 (1.257)
Oil filling, min. / max.	l (qt)	0.5 / 1.0 (0.5 / 1.1)	0.5 / 1.0 (0.5 / 1.1)	0.6 / 1.4 (0.6 / 1.5)	0.6 / 1.4 (0.6 / 1.5)
Noise level ²⁾ to DIN 45 635, without / with gas ballast	dB(A)	54 / 56	54 / 56	54 / 56	54 / 56
Admissible ambient temperature	°C (°F)	+12 to +40 (+54 to +104)	+12 to +40 (+54 to +104)	+12 to +40 (+54 to +104)	+12 to +40 (+54 to +104)
Motor rating ²⁾	W (HP)	550 - 750 (0.75 - 1.0)	550 - 750 (0.75 - 1.0)	750 (1)	750 (1)
Nominal speed	rpm	1500	1800	1500	1800
Type of protection	IP	3)	3)	3)	3)
Weight ²⁾	kg (lbs)	31.5 (69.3)	31.5 (69.3)	41.4 (91.1)	41.4 (91.1)
Connections, Intake and Exhaust	DN	25 KF	25 KF	25 KF	25 KF

¹⁾ To DIN 28 400 and following numbers

²⁾ Motor rating and noise levels for the pumps with AC motor 50 Hz.

Any data that deviate from the above for pumps with other motors, and other motor-dependent data are given in chapter "Products", paragraph "Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE"

³⁾ See paragraph "Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE"





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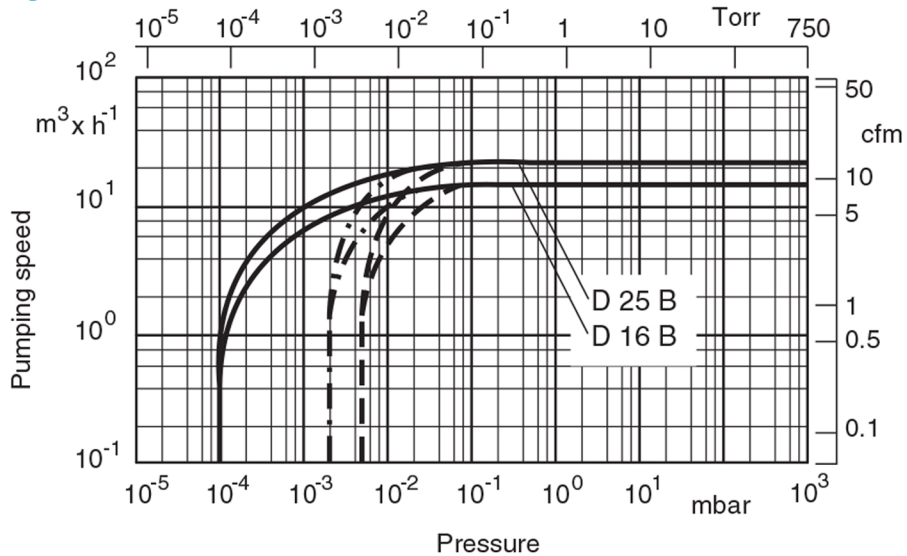
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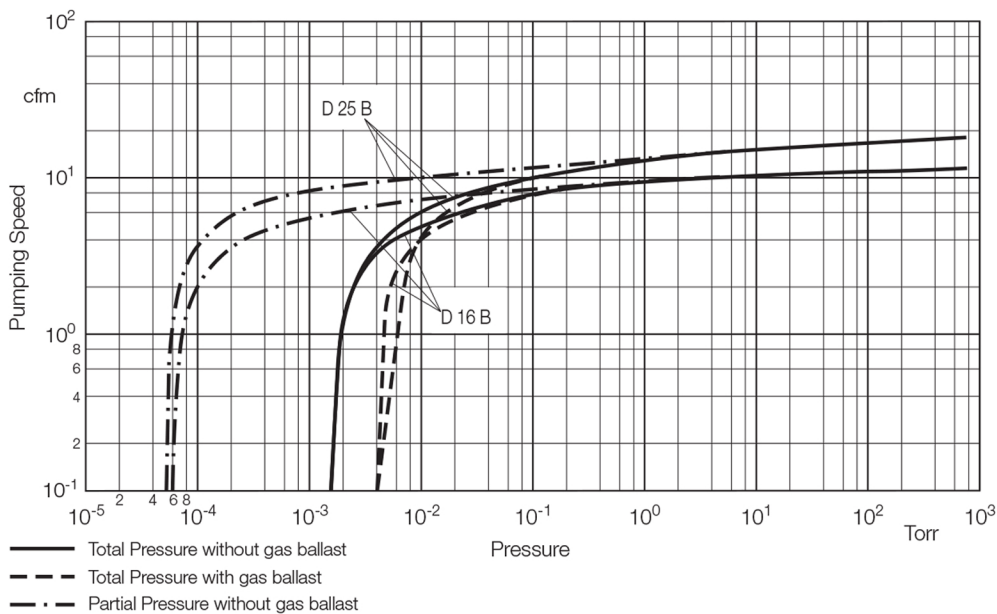
Pumping Curves

50Hz



- Ultimate partial pressure without gas ballast
- · - Ultimate total pressure without gas ballast
- - - Ultimate total pressure with gas ballast

60Hz



- Total Pressure without gas ballast
- - - Total Pressure with gas ballast
- · - Partial Pressure without gas ballast



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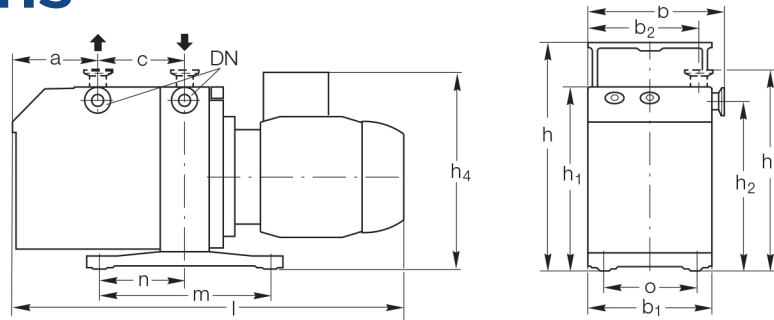
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Dimensions



Type	DN		a	b	b ₁	b ₂	c	h	h ₁	h ₂	h ₃	h ₄ ¹⁾	l ¹⁾	m	n	o
D 16 B (Part No. 112 66)	25 KF	mm	82	186	172	151	135	298	248	227	262	250	508	280	140	132
		in.	3.23	7.32	6.77	5.94	5.32	11.73	9.76	8.94	10.31	9.84	20.00	11.02	5.51	5.20
D 25 B (Part No. 112 76)	25 KF	mm	144	186	172	151	135	298	248	227	262	250	570	280	140	132
		in.	5.67	7.32	6.77	5.94	5.32	11.73	9.76	8.94	10.31	9.84	22.44	11.02	5.51	5.20

Features & Benefits

- ideal as backing pump for medium/high vacuum applications
- built-in oil pump, pressure-lubricated sliding bearings
- anti-suckback valve controlled via oil pressure
- continuous operation, even at 1000 mbar
- high water vapor tolerance, highly leaktight
- service-friendly

Applications

- vacuum coating • research and development • chemistry
- pharmaceuticals • lamps/tubes manufacturing • analytical/
- environment engineering • cooling and air conditioning • electrical/
- mechanical engineering • medicine technology • vacuum drying
- cabinets • chemistry and research labs • freeze-drying systems
- backing pump for high vacuum pump systems