



Leybold D-16BCS, D-25BCS

Technical Specifications

		D 16 BCS two-stage		D 25 BCS 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)	< 2.5 x 10 ⁻³ (< 1.9 x 10 ⁻³)	< 2.5 x 10 ⁻³ (< 1.9 x 10 ⁻³)	< 2.5 x 10 ⁻³ (< 1.9 x 10 ⁻³)	< 2.5 x 10 ⁻³ (< 1.9 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 (18.8)	25 (18.8)	25 (18.8)	25 (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)	0.45 / 1.0 (0.5/1.1)	0.45 / 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)	750 (1)	750 (1)	750 (1)	750 (1)
Nominal speed ²⁾	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)	35.8 (78.8)	35.8 (78.8)
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"



PROVAC

SALES

PHONE: 831-462-8900

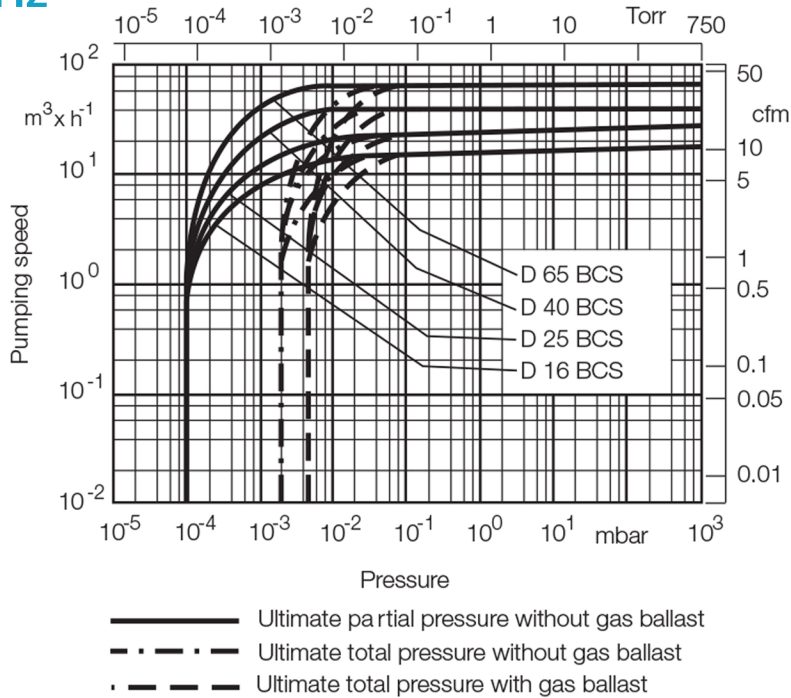
FAX: 831-462-3536

WWW.PROVAC.COM

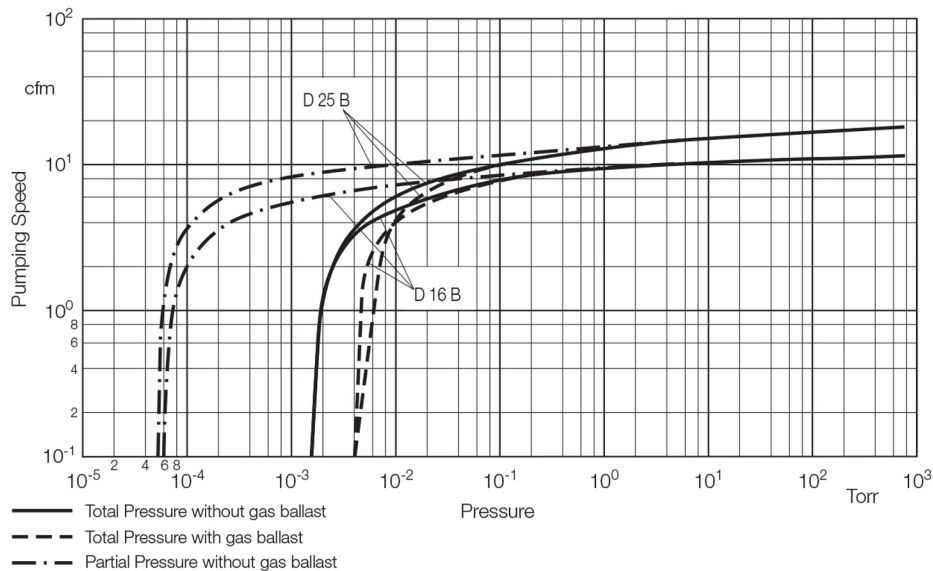
Leybold D-16BCS, D-25BCS

Pumping Curves

50Hz



60Hz



Pumping speed characteristics for the TRIVAC D 16 B/BCS and D 25 B/BCS at 60 Hz



PROVAC

SALES

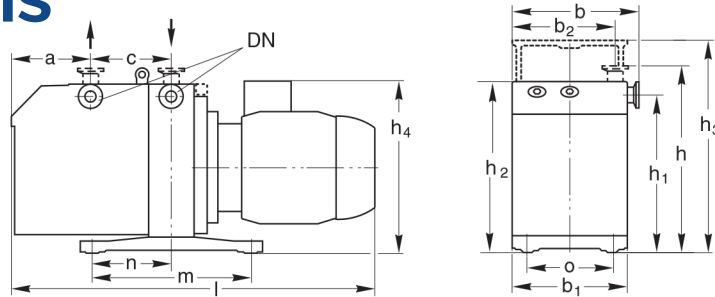
PHONE: 831-462-8900

FAX: 831-462-3536

WWW.PROVAC.COM

Leybold D-16BCS, D-25BCS

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 BCS (Part No. 113 68)	25 KF	mm	82	186	172	151	135	262	227	248	298	260	508	280	140	132
		in.	3.23	7.32	6.77	5.94	5.32	10.31	8.94	9.76	11.73	10.24	20.00	11.02	5.51	5.20
D 25 BCS (Part No. 113 78)	25 KF	mm	144	186	172	151	135	262	227	248	298	260	570	280	140	132
		in.	5.67	7.32	6.77	5.94	5.32	10.31	8.94	9.76	11.73	10.24	22.44	11.02	5.51	5.20
D 40 BCS (Part No. 113 88)	40 KF	mm	135	264	234	206	166	355	308	336	-	317	719	382	191	190
		in.	5.32	10.39	9.21	8.11	6.54	13.98	12.13	13.23	-	12.48	28.31	15.04	7.52	7.48
D 65 BCS (Part No. 113 98)	40 KF	mm	213	264	234	206	166	355	308	336	-	317	794	382	191	190
		in.	8.39	10.39	9.21	8.11	6.54	13.98	12.13	13.23	-	12.48	31.26	15.04	7.52	7.48

Features & Benefits

- compact design
- low noise operation
- ready for system integration
- pressure-lubricated sliding bearings
- anti-suckback valve controlled via oil pressure
- high pumping speed down to ultimate pressure

Applications

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