



# Leybold D-16BCS, D-25BCS PFPE

## Technical Specifications

		D 16 BCS-PFPE two-stage		D 25 BCS-PFPE two-stage	
		50 Hz	60 Hz	50 Hz	60 Hz
Nominal pumping speed <sup>1)</sup>	m <sup>3</sup> /h (cfm)	18.9 (11.1)	22.7 (13.4)	29.5 (17.4)	35.4 (20.9)
Pumping speed <sup>1)</sup>	m <sup>3</sup> /h (cfm)	16.5 (9.7)	19.8 (11.7)	25.7 (15.1)	30.8 (18.2)
Ultimate partial pressure without gas ballast <sup>1)</sup>	mbar (Torr)	< 8 x 10 <sup>-4</sup> (< 6 x 10 <sup>-4</sup> )	< 8 x 10 <sup>-4</sup> (< 6 x 10 <sup>-4</sup> )	< 8 x 10 <sup>-4</sup> (< 6 x 10 <sup>-4</sup> )	< 8 x 10 <sup>-4</sup> (< 6 x 10 <sup>-4</sup> )
Ultimate total pressure with gas ballast <sup>1)</sup>	mbar (Torr)	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )	< 5 x 10 <sup>-3</sup> (< 3.8 x 10 <sup>-3</sup> )
Ultimate total pressure with reduced gas ballast, 200 l x h <sup>-1</sup> <sup>1)</sup>	mbar (Torr)	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )	< 2 x 10 <sup>-3</sup> (< 1.5 x 10 <sup>-3</sup> )
Lubricant filling min. / max. upon delivery	l (qt) l (qt)	0.45 / 1.0 (0.5 / 1.1) 0.2 (0.2)	0.45 / 1.0 (0.5 / 1.1) 0.2 (0.2)	0.6 / 1.4 (0.6 / 1.5) 0.4 (0.4)	0.6 / 1.4 (0.6 / 1.5) 0.4 (0.4)
Noise level <sup>2)</sup> 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 <sup>2)</sup>	W (HP)	750 (1)	750 (1)	750 (1)	750 (1)
Nominal speed <sup>2)</sup>	rpm	1500	1800	1500	1800
Type of protection	IP	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>	<sup>3)</sup>
Weight <sup>2)</sup>	kg (lbs)	30.8 (67.8) <sup>4)</sup>	30.8 (67.8) <sup>4)</sup>	35.3 (77.7) <sup>4)</sup>	35.3 (77.7) <sup>4)</sup>
Connections, Intake and Exhaust	DN	25 KF	25 KF	25 KF	25 KF

<sup>1)</sup> To DIN 28 400 and following numbers

<sup>2)</sup> 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"

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

<sup>4)</sup> Upon delivery



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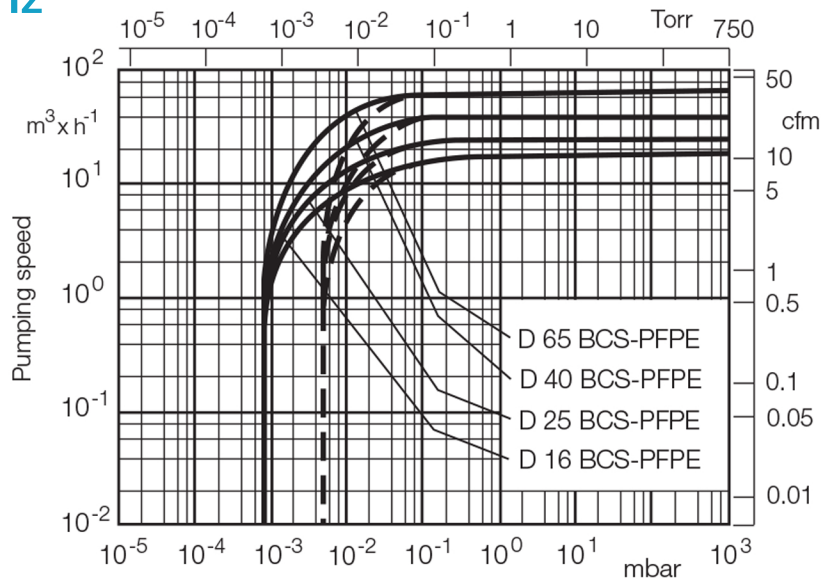
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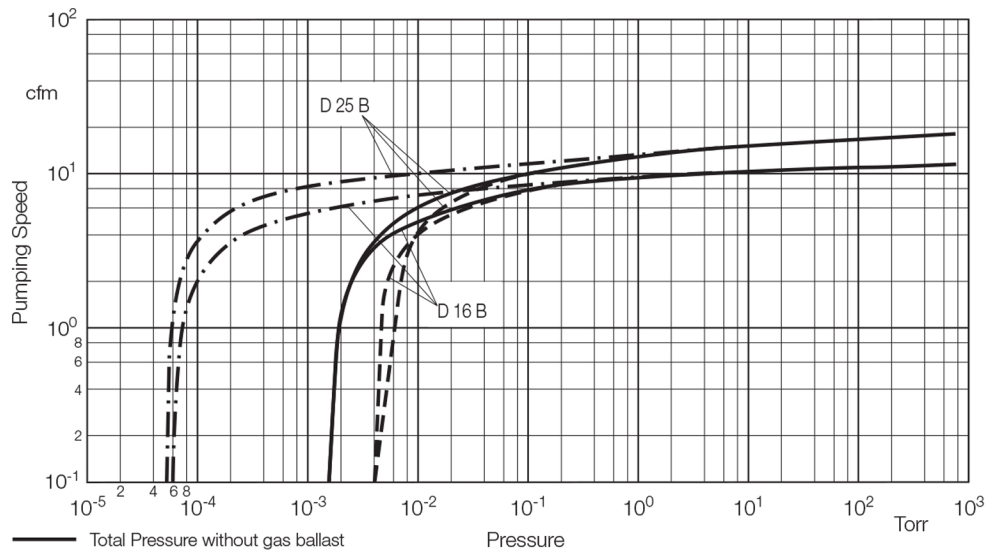
## Pumping Curves

### 50Hz



— Ultimate partial 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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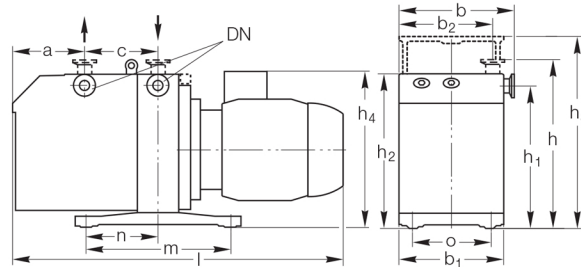
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# Leybold D-16BCS, D-25BCS PFPE

## Dimensions



Type	DN	a	b	b <sub>1</sub>	b <sub>2</sub>	c	h	h <sub>1</sub>	h <sub>2</sub>	h <sub>3</sub>	h <sub>4</sub>	l	m	n	o	
D 16 BCS-PFPE (Part No. 113 69)	25 KF	mm	82	190	175	150	135	263	226	250	298	260	508	280	140	132
		in.	3.23	7.48	6.89	5.91	5.32	10.35	8.90	9.84	11.73	10.24	20.00	11.02	5.51	5.20
D 25 BCS-PFPE (Part No. 113 79)	25 KF	mm	142	190	175	150	135	263	226	250	298	260	570	280	140	132
		in.	5.59	7.48	6.89	5.91	5.32	10.35	8.90	9.84	11.73	10.24	22.44	11.02	5.51	5.20
D 40 BCS-PFPE (Part No. 113 89)	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-PFPE (Part No. 113 99)	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	-	12.28	31.26	15.04	7.52	7.48

<sup>1)</sup> For dimensions h<sub>3</sub> and l for further part numbers, see paragraph "Motor Dependent Data for the TRIVAC B, BCS and BCS-PFPE"

## 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