



Varian TV-80

Technical Specifications

High vacuum flange: - ConFlat® - ISO - ANSI	4 1/2" O.D. 63 (nominal diameter) 2"
Forevacuum flange Vent port flange	NW 16 KF NW 10 KF
Pumping speed for: - N ₂ - He - H ₂	75 l/s (refer to fig. 1-2) 55 l/s 45 l/s
Base pressure*	(refer to fig. 1-3) 1 x 10 ⁻⁹ mbar (8 x 10 ⁻¹⁰ Torr)
Compression ratio for: - N ₂ - He - H ₂	3 x 10 ⁶ 5 x 10 ² 100
Recommended fore-pump:	Varian SD 90 (4.5 m ³ /h) (3.2 CFM)
Start-up time	25 seconds
Operating: - Position - Voltage - Frequency - Ambient temperature	Vertical (max slope 10°) 54 Vac ±15% - 3 phase 1000 Hz ± 2% 20°C ± 15°C

Nominal speed	60,000 rpm
Max bakeout temperature	120°C at high-vacuum flange
Noise level	≤50 DB (A) at 1 meter
Water-cooled: - Flow rate - Temperature - Pressure	20 l/s (0.09 GPM) + 10°C to 25°C 2 to 4 mbar (30 to 60 Psig)
Lubricant: - type - charge	Varian T.A. oil (Fomblin on request) 35 cm ³
Storage temperature	-20°C to 70°C
Weight	5.2 Kg (11.5 lbs)

* According to DIN 28 428, the base pressure is the pressure measured in the test dome 48 hours after bake-out using the ConFlat flanged Turbopump with the recommended forepump.





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Varian TV-80 Pumping Curves

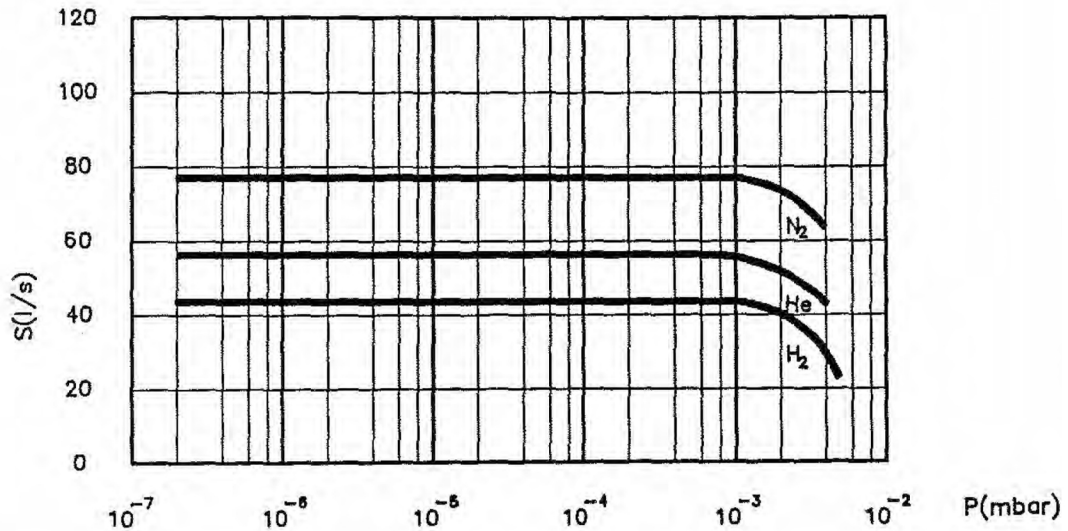


Figure 1-2 - Pumping speed vs inlet pressure

Dimensions

