



# Shimadzu TMP-1003

## Technical Specifications

Model description		TMP-1003LM
Cooling method		Liquid cooling (water)
Ultimate pressure (Note 1)		$10^{-9}$ Pa order ( $10^{-11}$ Torr order)
Maximum allowable inlet pressure (N <sub>2</sub> )		400 Pa (3 Torr)
Maximum allowable outlet pressure		665 Pa (5 Torr)
Pumping speed (Note 2)	Nitrogen	1080 L/s
	Helium	930 L/s
	Hydrogen	790 L/s
Compression ratio	Nitrogen	$1 \times 10^9$
	Helium	$8 \times 10^4$
	Hydrogen	$4 \times 10^3$
Rated speed		35000 rpm
Start-up time		5 minutes or less
Mounting position		Any direction
Bake-out temperature at an inlet flange		120 °C (248 °F) or less
Vibration level		0.01 $\mu$ m or less (0 – peak)
Inlet flange		ICF253, VG200, or ISO200 Bolted type
Admissible throughput of Nitrogen purge gas		20 ~ 30 SCCM
Recommendable supply pressure of purge gas		0.260.1 kgf/cm <sup>2</sup> G (2.8661.43 psi)
Admissible pumping speed of a backing vacuum pump		600 L/min or more
Admissible ambient magnetic field	Radial direction	3 mT
	Axial direction	15 mT
Water	Flow rate	1 ~ 3 L/min
	Pressure	0.2 ~ 0.5 MPa (29 ~ 73 psi)
	Temperature	5 ~ 30 °C
Admissible ambient temperature		5 ~ 30 °C
Weight		32 kg

(Note 1) Measured with a metal gasket used at the pump inlet flange.

(Note 2) Measured without a protective net.



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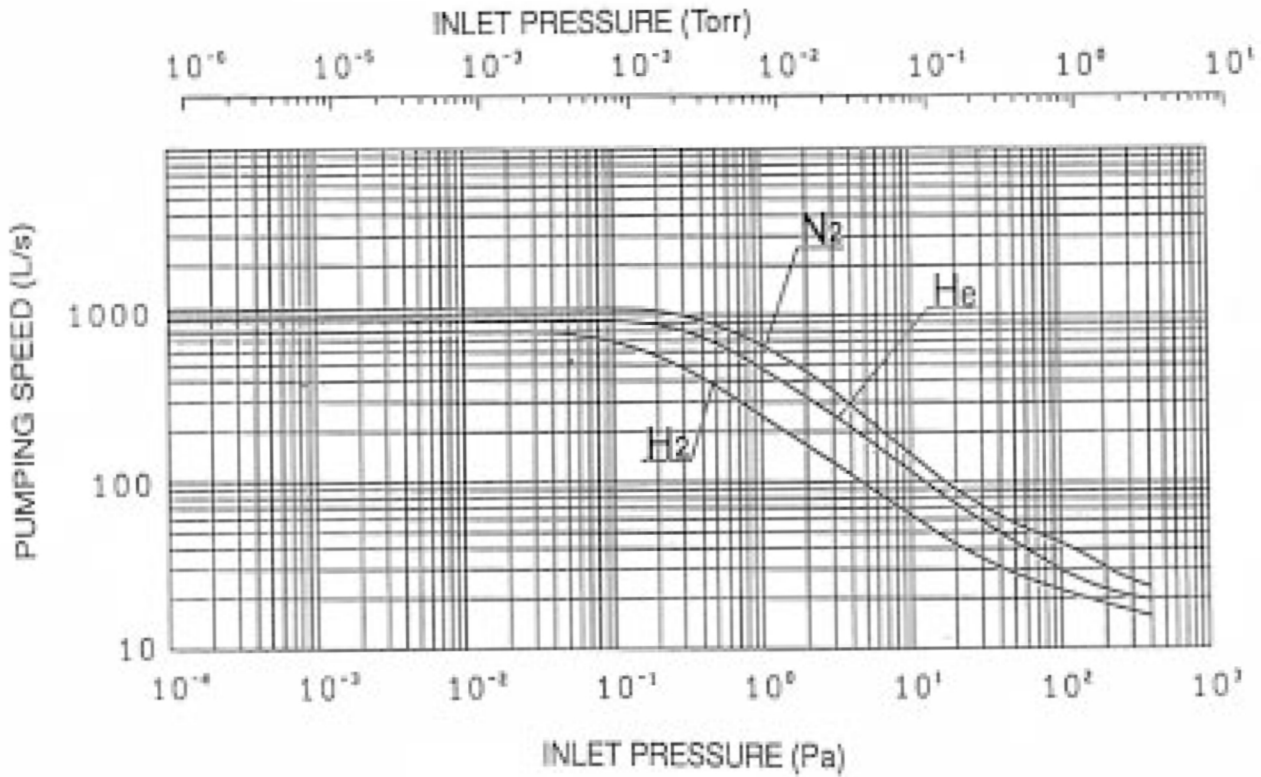
## SALES

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# Shimadzu TMP-1003 Pumping Curves



pumping speed of backing vacuum pump : 800 L/min