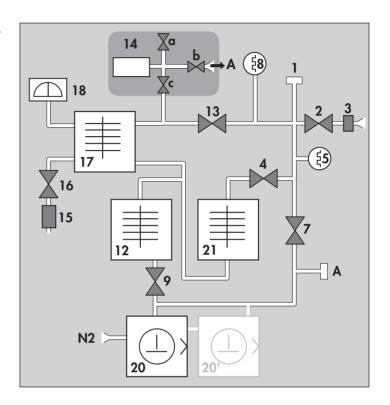
#### Vacuum circuit



- 1. Detector inlet port
- 2. Inlet vent valve
- 3. Vent filter connector
- 4. Roughing valve
- 5. Inlet pressure gauge (PI1)
- 7. By-pass valve
- 8. Detection pressure gauge (PI3)
- 9. Exhaust valve
- 12. Roughing molecular drag pump (MDP 5006)
- 13. Detection valve
- 14. Calibrated leak module

- 15. Connector for long distance sniffer
- 16. Sniffer valve
- 17. Hybrid turbomolecular pump (TMP 5154)
- 18. Analyzer cell
- 20. Dry primary roughing pump (ACP 20/28)
- 20'. Optional second dry primary roughing pump (ACP 20/28)
- 21. Roughing turbomolecular pump (ATP 100)

#### **Pumping capacities**

 $27~\text{m}^3/\text{h}$  (16 cfm) roughing (dry primary pump ACP 20/28) or  $54~\text{m}^3/\text{h}$  (32 cfm) + 100 l/s (turbomolecular pump ATP 100). Helium pumping speed at inlet port: 20 l/s.

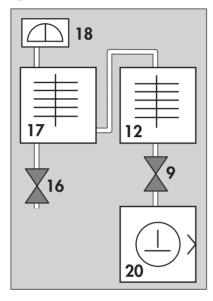
#### **Test capacities**

Short test cycle on big volumes. Quick response time on big volumes. Auto-calibration with integrated calibrated leak.

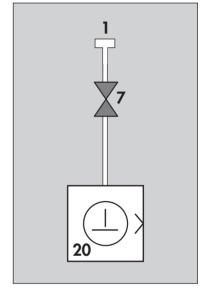
**Note:** Only operational parts are represented.

## Operation in vacuum test mode

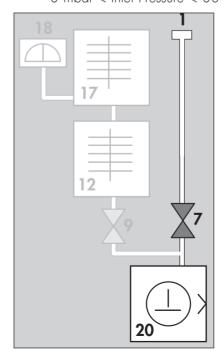




2 Primary roughing



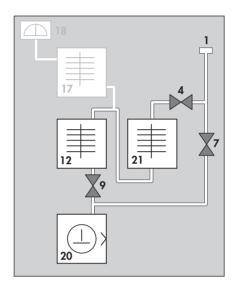
Gross leak test mode
3 mbar < Inlet Pressure < 30 mbar

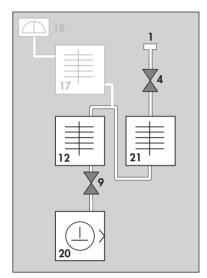


**4**) Normal test mode

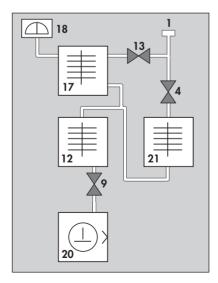
5.10<sup>-1</sup> mbar < Inlet Pressure < 3 mbar

2.10<sup>-2</sup> mbar < Inlet Pressure < 5.10<sup>-1</sup> mbar

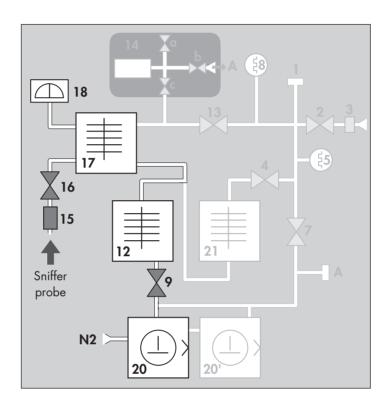




**5** High Sensitivity test mode inlet pressure < 2.10<sup>2</sup> mbar

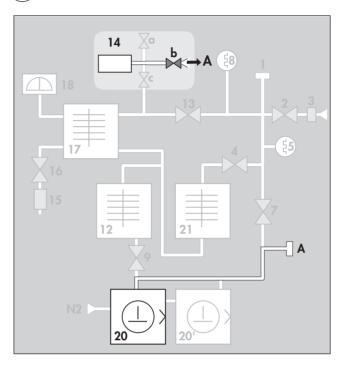


Operation in sniffing mode (LDS)

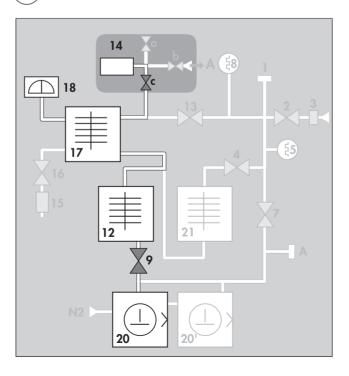


## Operation in internal calibration mode

1 Roughing of calibrated leak



#### (2) Calibration



# Operation in internal calibration mode

Wenting of calibrated leak

The leak is returned to atmospheric pressure.

