

## HIGH VACUUM PUMP STAND FOR VARIABLE USE IN LABORATORIES

### GENERAL

In many cases, the use of vacuum is necessary for the running of different chemical processes.

Especially in research and development of new products in laboratory, processes run under vacuum or with feeding in of inert gas. Due to this reason, the NORMAG LABOR- und PROZESS-TECHNIK GmbH has developed a mobile vacuum pump stand meeting the highest requirements.



Pict. 1  
High vacuum pump stand  
for variable use in laboratories

Technical data:

Standard dimensions of the pump stand (L/H/D) 500 x 500 x 1400 mm

Combined pump stand consisting of:

- Chemical resistant diaphragm pump
- Two stage rotary vane pump
- Connecting voltage: 230 V, 50 Hz
- Pumping speed: 3.7 m<sup>3</sup>/h
- Ultimate pressure: 3 x 10<sup>-3</sup> mbar

Vacuum meter with CAP 120 / Measuring range: 200 - 0.1 mbar

## Construction of the high vacuum pump stand

The pump stand consists of two easy to dismantle single elements, connected with high vacuum flanges in different sizes. Between the flanges are centring rings with Viton sealing, giving a safe seal and centring of the flanges.

The connections for taking vacuum and inert gas are robust high vacuum double spindle valves. The stems of these valves can be made as NS-cone, glass thread or olives, just for customer's requirements. Two safety/overpressure valves guarantee that the unit will not be injured, caused by failure in operating.

Due to the pre-fitting of several cold traps it is possible to condense gaseous parts in the suction line. A connection with a high vacuum flange DN 16 provides the facility to connect a vacuum meter with capacitive sensor.

The locking of the unit versus the vacuum pump is effected with a great high vacuum spindle valve DN 15.

A chemvac combined pump stand serves as vacuum pump. This guarantees the reaching of a sufficient vacuum, and the chemical resistant design ensures a wide range of applications.

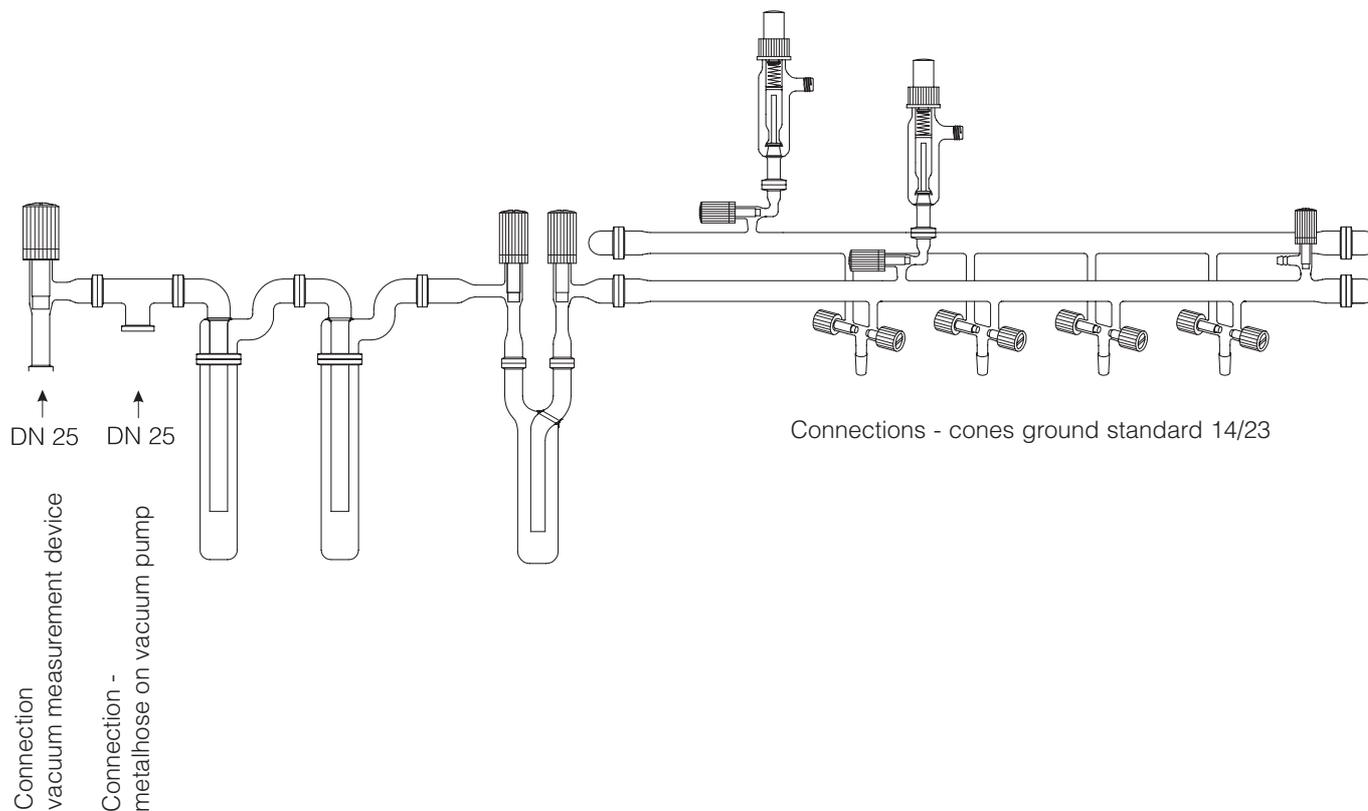
The vacuum pump stand is integrated in a mobile frame of stainless steel tubes, tube diameter 26.9 mm.

Rollers give the possibility to move the stand within the laboratory.

Pump stand, vacuum pump and frame can be designed to customer's requirements.

**We will be pleased to submit you a detailed offer.**

All ground joints are also available in other standard sizes, e.g. US-standard.



Pict. 2 schematic description