

# MEASUREMENT OF LOW PRESSURE IN WATER JET PUMP

MED 16.12



## Material:

Item-no.	Qty.	Description
C6123-1G	1	Water jet pump, glass
C7445-6V	1	Vacuum hose, D=6 mm, L=100 cm
DE722-2D	1	Manometer, differential, "inno"
P3120-4A	1	L-shaped assembly platform

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## Purpose

Measuring of underpressure created by the entrainment of the air particles by a water jet after a nozzle.

## Preparation

Connect the silicone hose to the "suction"-socket of the water jet pump

Afterwards connect the water jet pump to the water tap with the hose

Next place the "inno" Manometer on the L-shaped assembly platform, the silicone hose of the water jet pump is connected to the "underpressure"-connector of the Manometer

Turn on the Manometer and set the measuring range to "100 hPa"; afterwards adjust the zero point



## Experiment

Initially the tap is opened slightly and then opened further and further. Observe the pressure display on the manometer!

## Conclusion

With a water jet pump we create an underpressure at its suction connection. The greater the flow rate of the water the higher the under pressure.