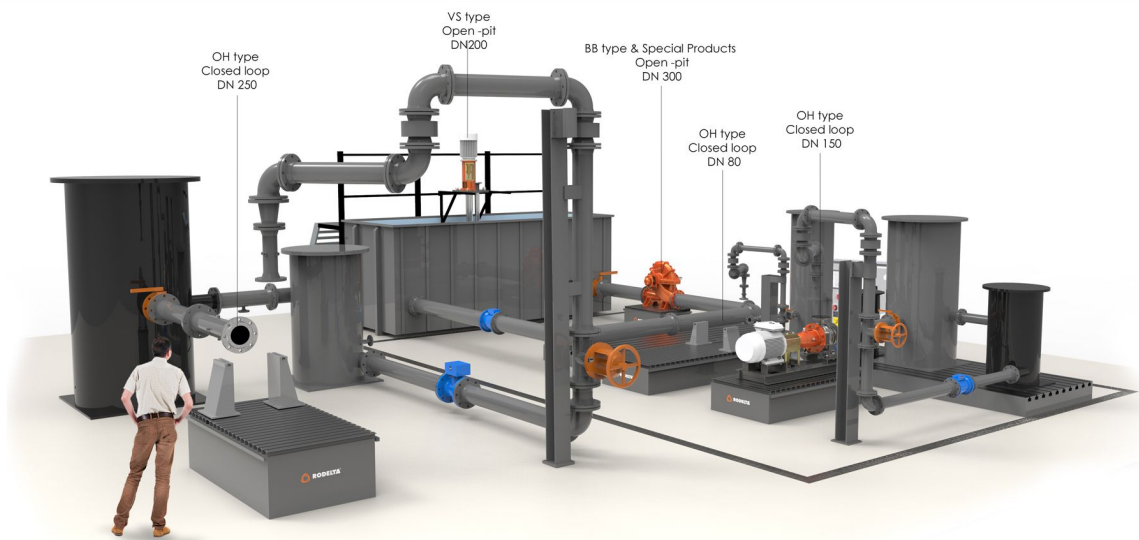


Rodelta test laboratory

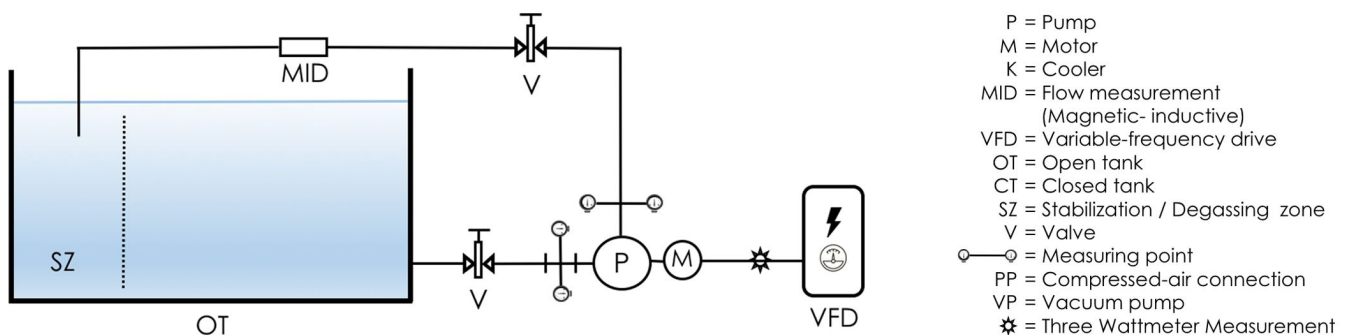
To ensure that the pumps which leave the factory at Rodelta do what we have promised, they are being tested in our test laboratory. In this test laboratory the pumps will be tested according to the latest test requirements and standards. The Rodelta test lab has the capability to test according the API-required standards for process pumps.



Rodelta test laboratory

Pumps that leave the factory at Rodelta are individually tested at our test laboratory to ensure that they deliver what was promised to the customer. This testbed is fully compliant to the latest API and Hydraulic Institute test requirements and standards.

To reliably test various types of pumps it is necessary to have several test loops. Some pumps require different environments to be tested properly. Most pumps are tested on an open-pit testbed. This means the pump is mounted next to a pit and draws water from it. Through a series of valves and measurement devices, the performance of the pump can be established. The main advantage of this is quick setup times and large volume pumps can be handled. The downside to this is that testing these pumps with lower than atmospheric inlet pressure can be a challenge due to dissolved air in the water. Another plus is that this set-up mimics most of the set-ups of water pumps in the field, therefore it yields a proper replication of the pump performance on-site.



Open-pit testbed

BB type and Special products

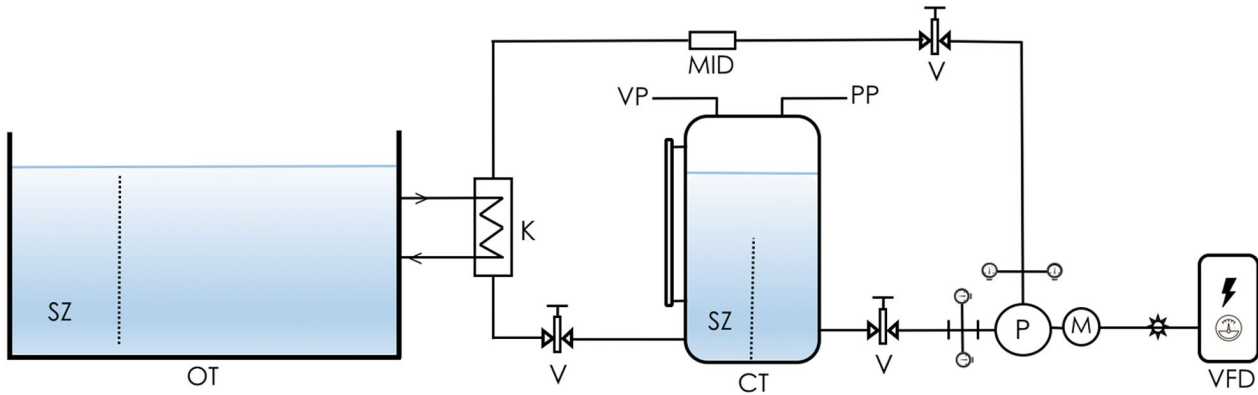
- P = Pump
- M = Motor
- K = Cooler
- MID = Flow measurement (Magnetic- inductive)
- VFD = Variable-frequency drive
- OT = Open tank
- CT = Closed tank
- SZ = Stabilization / Degassing zone
- V = Valve
- = Measuring point
- PP = Compressed-air connection
- VP = Vacuum pump
- ★ = Three Wattmeter Measurement



RODELTA®

Closed test loop

The main advantage of a closed test loop is that all the air in the water can be removed, resulting in more accurate NPSH measurements up to one twentieth of the normal atmospheric pressure. Also, the inlet pressure can be increased to investigate the performance impact of the inlet pressure on the performance of the pump or simulate actual inlet pressures on-site.

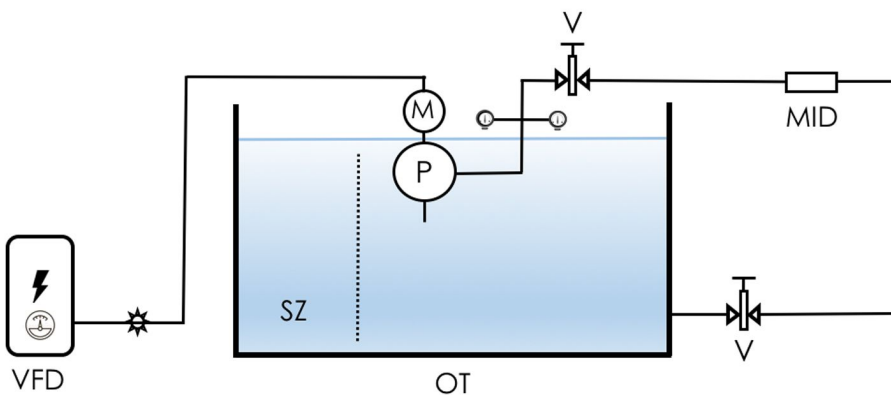


Closed test loop OH type of pumps (API)

P = Pump
M = Motor
K = Cooler
MID = Flow measurement
(Magnetic-inductive)
VFD = Variable-frequency drive
OT = Open tank

CT = Closed tank
SZ = Stabilization / Degassing zone
V = Valve
○ = Measuring point
PP = Compressed-air connection
VP = Vacuum pump
⚡ = Three Wattmeter Measurement

To accurately test the performance of the pumps, all equipment is calibrated within the specifications of the HI standards and the layout is made in such a manner that the highest measuring accuracy is acquired. Since efficiency of pumps is becoming more and more important in the field of pumps it is necessary that the measurements to the pumps are as qualitatively correct as possible. That's why Rodelta chooses for a Threewatt power measurement and very accurate flow and pressure measurers. This ensures we can perfectly measure the performance of the pump and ensures that the customer gets what was offered. That is why Rodelta values good and honest measurements of their products. It contributes to even better Rodelta pump products in the future.



Open-pit testbed VS type of pumps

Rodelta Almelo (NL)

*Closed test loop 80-150
OH type of pumps (API)*



*Closed test loop 250
OH type of pumps (API)*



*Open-pit testbed 200
VS type of pumps*

*Open-pit testbed 300
bb type of pumps*

