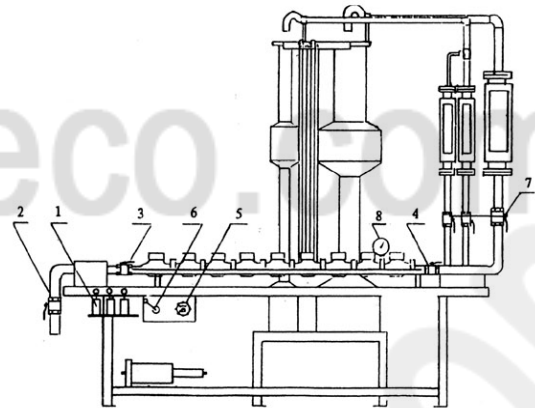
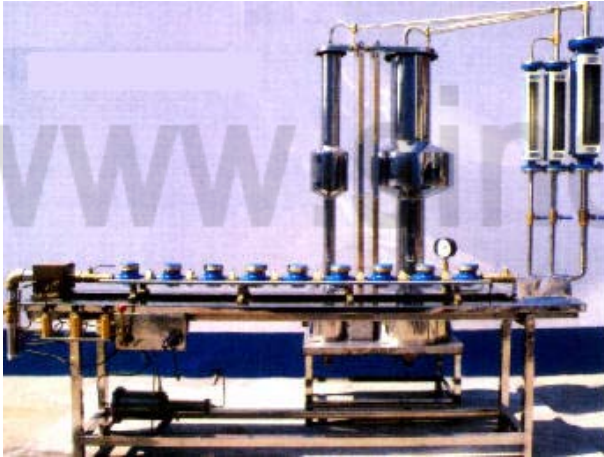


## Test Bench



This water meter test bench is used to test water meter according to relevant international standard ISO 4064, in order to find out if the water meter is Accepted or Rejected.

### Features:

- optional 1 row, 2 rows, 4 rows
- 6 meters per row dn15, 5 meters per row dn20, 4 meters per row dn25 or dn32, 1 meter per row dn40 or dn50
- each row work independently
- test  $Q_{max}$ ,  $Q_n$ ,  $Q_t$ ,  $Q_{min}$  or full error curve
- optional with/without pressure test
- packing: wooden case

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Part no.	Part Name
1	Control Valve
2	Ball Valve
3	Clamp
4	Ball Valve
5	Needle Valve
6	Pressure Test Handle
7	Ball Valve
8	Pressure Gauge

- Pressure Test:

- i) choose same size connectors, push control valve (1) clamp water meters;
- ii) turn on ball valve (2), turn on ball valve (3), turn on ball valve (4), turn on ball valve (7);
- iii) twist pressure test handle (6) to loose, wait 20 seconds, then turn off ball valve (7), turn off ball valve (4), then turn off ball valve (3);
- iv) twist pressure test handle (6) to close slowly, watch pressure gauge (8), till the requested pressure, then turn off needle valve (5), wait the requested pressure test time;
- v) finish pressure test, turn off ball valve (2), turn off ball valve (4), turn off ball valve (7), turn on ball valve (3), reduce pressure to zero;

if only do pressure test, then pull control valve (1), release water meters; or continue

- Flow Rate Error Test:

- i) choose same size connectors, push control valve (1) clamp water meters;
- ii) turn on ball valve (2), turn on ball valve (3), turn on ball valve (4), turn on ball valve (7);
- iii) twist pressure test handle (6) to loose, wait 20 seconds, then turn off ball valve (7), turn off ball valve (4), then turn off ball valve (3);
- iv) twist pressure test handle (6) to close slowly, watch pressure gauge (8), till the requested pressure, then turn off needle valve (5), wait the requested pressure test time;
- v) finish pressure test, turn off ball valve (2), turn off ball valve (4), turn off ball valve (7), turn on ball valve (3), reduce pressure to zero;

**WORKING PRINCIPLE:**

Permissible error:

From  $Q_t$  to  $Q_{max}$  both inclusive:  $\pm 2\%$

From  $Q_{min}$  to  $Q_t$  both exclusive:  $\pm 5\%$

Formula to calculate error:

Error =  $(V_2 - V_1) / V_1 \times 100\%$  of which

$V_2$ : Volume shown by the water meter(s)

$V_1$ : Volume shown by the Volume tank

$V_1$  value is listed as below:

DN	Class	$Q_t$ (litre/hr)	$V_1$ (litre)	$Q_{min}$ (litre/hr)	$V_1$ (litre)
15	C	22.5	10	15	10
20	C	37.5	10	25	10
25	C	52.5	10	35	10
40	C	150	20	100	20
50	C	225	20	90	20