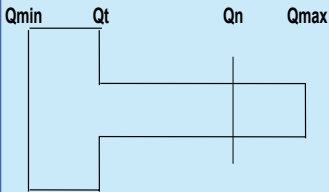
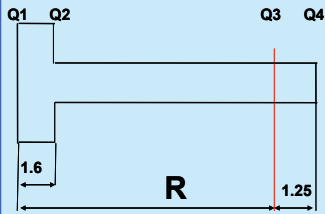


NEW METROLOGY RULES

FORMER APPROACH



NEW APPROACH (MID)



MID (Measuring Instruments Directive): a new European regulation for water meters!

European Directive **2004/22/EC** is aimed at harmonising the regulations and classifications in the area of metering across Europe.

As from 30 October 2006, it replaces all the European directives and national regulations and now makes it necessary for water meters to meet the requirements of standard **NF EN14154** and/or recommendation **OIML R49**.

In practice, that changes the usual baseline that is used to define the metering performance of a meter:

The meter is now defined by:

- **Q3**: continuous flowrate
- **R**: Q3/Q1 ration (where Q1 is minimum flowrate)

Secondary characteristics:

- **Q2**: transition flowrate defined by $Q2/Q1 = 1.6$
- **Q4**: overload flowrate defined by $Q4/Q3 = 1.25$



Possible values of Q3 (m³):

1	1.6	2.5	4	6.3	10	16	25	40	63	...
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Possible values of R :

10	12.5	16	20	25	31.5	40	50	63	80	100	125	160	200	250	315	400	500	630	...
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Model approval has been replaced by the **EC type examination certificate** which reinforces the requirements in terms of test benches and methods.

Example:

FORMER APPROACH

Altair Class C Qn 1.5 m³/h

Qmax = 3000 l/h

Qmin = 15 l/h

Qt = 22.5 l/h



NEW APPROACH (MID)

Altair Q3 2.5m³/h R 200

Q4 = 3125 l/h (2500x1.25)

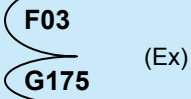
Q1 = 12.5 l/h (2500/200)

Q2 = 20 l/h (12.5x1,6)

NEW MARKING

FORMER APPROACH

Model approval:



Initial verification mark:



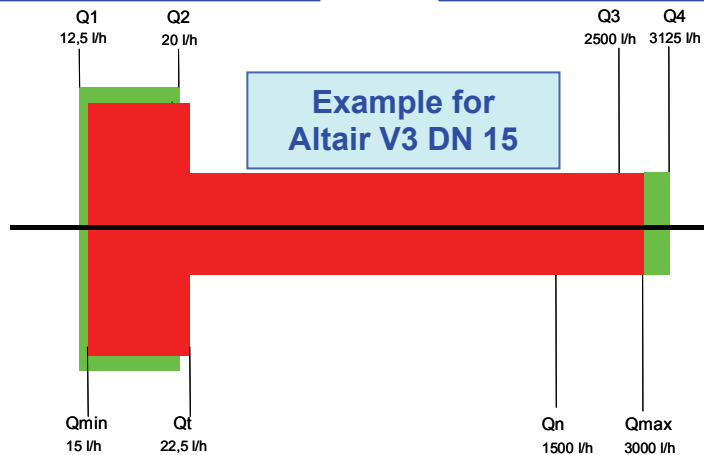
NEW APPROACH (MID)

EC type examination certificate:

LNE 5582 (Ex)

Initial verification mark:

CE **M07 0071 (Ex)**



- Can you still buy/fit class A, B, C meters?

YES for ten years at the most - products approved before the MID (Oct. 2006) are approved for 10 years.