

KVWN DRILLING & TAPPING CHAMPIONSHIPS

OFFICIAL RULES & REGULATIONS

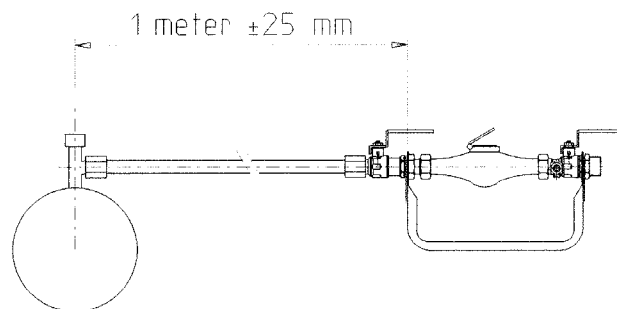
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1 INTRODUCTION

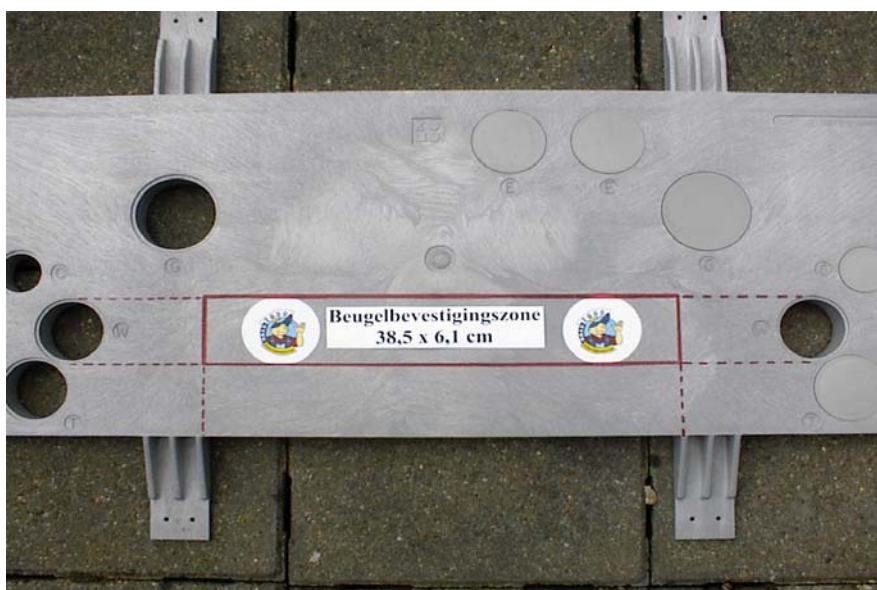
- 1.1 UK 1.1
- 1.2 UK 1.2
- 1.3 UK 1.3
- 1.4 UK 1.6 (twelve minutes time limit)
- 1.5 UK 1.7
- 1.6 UK 1.8
- 1.7 **ONLY** participating teams (coach included) will be allowed within the competition area within their allocated time period. No other representatives of the participating company's team is allowed to enter the competition area. Any contravention of this Regulation will result in an automatic one-minute penalty to the team.
- 1.8 During the event the team's coach is allowed to stand in the designated area within the competition area to cheer the team or give useful instructions. The coach is not allowed to leave the designated area. The coach is only allowed to carry a stopwatch or other timing device to support the team in their effort. Any contravention of this Regulation will result in an automatic one minute penalty to the team.

2 GENERAL

- 2.1 UK 2.1
- 2.2 UK 2.2
 - a. The drilling machine shall be a Water tool 506-90, etc. UK 2.3
 - b. UK 2.4
- 2.5 UK 2.5
- 2.6 UK 2.6, there is a list of tools in section 6 with a limitative listing of usage of these tools.
- 2.7 UK 2.7 A, only teams have to assemble the drill bit in the spindle.
 - i. UK 2.7
 - ii. UK 2.7 B, the spindle with the drill bit must also be in contact with the ground, not touching anything else.
 - iii. The use of the drilling machine should be in accordance with the operation instructions of the manufacturer.
 - iv. The drilling machine must be securely located, with the use of the chain, on the main before drilling commences. The chain hooks must be tightened in such a manner that at least two threads are through the topside of the nut. Failure to comply with this requirement will be treated as a safety violation.
 - v. The ferrule and the drill bit are to be assembled in the respective spindles prior to commencement. The applying of tape on the ferrule is to be carried out during the event.
 - vi. UK 2.7 E
 - vii. UK 2.7 F
 - viii. The ferrule shall be securely inserted into the pipe with no more than 4 threads exposed. The ferrule shall be tightened with the supplied spanner. It is not allowed to tighten the ferrule with the spindle still attached. The ferrule shall be in an vertical position +/- 5°.
 - ix. UK 2.7 J



- x. The bib tap is to be taped during the event. The bib tap shall be in a vertical position +/- 5°.
- xi. UK 2.7 L
- xii. It is not allowed to make any distance or other markings on equipment and/or materials. Assembling of parts/materials is not allowed prior to the event.
- xiii. The reading glass of the watermeter shall be in a horizontal position +/- 5°. The protective caps on both sides of the watermeter are to be removed during the event.
- xiv. The *water meter holder* is to be screwed tight to the *bottomplate* with the supplied screws. Tight means that the watermeterholder can not be shifted in any direction after assembly.
- xv. The watermeterholder shall be positioned in the area as shown in the photograph. The area is bordered by four imaginary lines, two lines are drawn from the outer diameter of the two holes marked W, and two lines are marked by the insides of the *fixation supports*.



- 2.8 UK 2.8
 - a. UK 2.8 A
 - b. UK 2.8 B
 - c. UK 2.8 C, see also section 6.
 - d. Throwing with or dropping of the spindles, dropping of the drilling machine will be treated as a safety violation and penalised accordingly.
 - e. Only tools and materials supplied for the event shall be used.
- 2.9 UK 2.9
- 2.10 UK 2.10

3 JUDGING

- 3.1 UK 3.1
- 3.2 UK 3.2, (1/10th of a second)
- 3.3 UK 3.3
- 3.4 UK 3.4
- 3.5 UK 3.5
- 3.6 UK 3.6
- 3.7 UK 3.7
- 3.8 UK 3.8

4 PENALTIES

4.1 UK 4.1

4.2 UK 4.2

4.3 UK 4.3

4.4 Penalties shall be added for each violation or defect observed as follows:

- a. All leaks + 30 seconds
 - b. Failure to make joints correctly or incomplete element + 30 seconds
 - c. More than four threads showing (ferrule) + 30 seconds
 - d. Safety infringement + 20 seconds
 - e. Failure to comply with rule 1.6, 1.7, 1.8 of 2.8.d + 60 seconds
 - f. Failure to comply with the time limit in Regulation 2.5 + 30 seconds
 - g. Procedural violation by anyone involved with the team + 30 seconds
- BEWARE etc..

4.5 UK 4.5

4.6 UK 4.6

4.7 UK 4.7

5 SAFETY

5.1 UK 5.1

5.2 UK 5.2

- a. Head protection for all team members shall be worn during the event.
- b. Eye protection (glasses or goggles) are required to be worn by all team members during the event
- c. Each team member must have safety gloves and these shall be worn by any member using or assisting with the drilling machine. Gloves will not be required to be worn when connecting up the pipe work. However they must be worn when the communication pipe is attached to the ferrule. Gloves shall be full fingered and made of leather or made in such a way that they are suitable for construction related tasks. Laboratory type gloves, such as latex or rubber material, are not allowed.
- d. Food protection shall be worn by both team members.
- e. UK 5.2 F, polo shirts will not be permitted also.

5.3 In the accordance of a team member injuring him/herself or his/her partner, this will be penalised as a safety violation.

6 EQUIPMENT & MATERIALS

All equipment and materials are supplied by the organising committee. Following is a list of these materials and equipment and for the equipment also the limited usage of this equipment. Violation of this regulation will be penalized according to penalty 4.4.g.

Please take notice of the sketches 70.120 and 70.121

List of equipment

<u>Article</u>	<u>Usage</u>
Watertool 506-90 + tools	Drilling and tapping, inserting ferrule
Ratchet spanner with 24mm socket	Tightening chain of drilling machine
Folding rule 1 meter	Measure HDPE pipe
HDPE pipe cutter	Cut HDPE pipe
Spanner 30 mm (3 supplied)	Tighten top ferrule
idem	Tighten watermeter
idem	Tighten TK coupling 3/4"
Spanner 24 mm	Tighten ferrule in iron pipe
Spanner 17 mm	Tighten valve tap
Gedore Blitztang 9"	Tighten TK coupling 1"
"Inbus" 10 mm	Tighten plastic valve plug
Awl	Punch little hole for screws
8 mm socket-screwdriver	Tighten screws in bottomplate
T shaped ferrule tool	Open/close ferrule plug

Materials

Pont-a-Mousson Ductile iron pipe 150 mm
Pipelife Polvalene PE 80 25 x 2,3 mm, in one straight piece of 2 meter
1 AVK universal bottomplate
1 Conval ferrule 1/2" - 3/4"
1 Conval watermeterholder with valves
1 Alprene elbow 25 x 25 mm
3 Conval TK couplings PE25 x 1"
3 gaskets neopreen 1"
1 Conval TK coupling PE25 x 3/4"
1 Schlumberger watermeter Qn 1,5
3 gaskets neopreen 3/4"
1 Conval wall plate elbow 3/4" - 1"
1 Conval valve tap 1/4"
1 gasket fiber 1/4"
1 plastic valve plug 1/4"
1 iron bib tap 3/4"
2 screws 4,8 x 19
1 roll Teflon tape