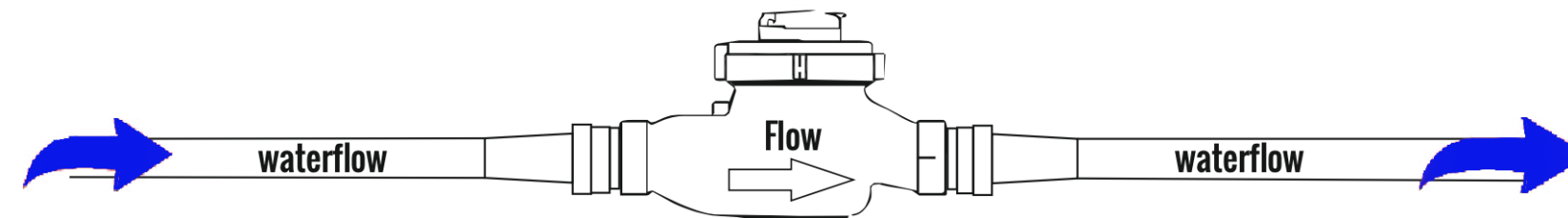


DOMESTIC METER INSTALLATION

AS PER IS 779



IS 779 : 1994

CHECKLIST BEFORE INSTALLATION

IS 779 : 1994 WATER METERS (DOMESTIC TYPE) — SPECIFICATION

(*Sixth Revision*)

(*Page 1, clause 2*) — Substitute the following for the existing:

‘The Indian Standards listed in Annex A contain provisions which, through reference in this text, constitute provision of this standard. At the time of publication the editions indicated were valid. All standards are subject to revision and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated in Annex A.’

(*Page 7, clause 12.5*) — Add following new clause after 12.5 and renumber the subsequent clauses:

13 SELECTION, INSTALLATION AND MAINTENANCE

Water meters are to be installed and maintained properly, so that they may give desired duty in service. For this purpose, recommendations given in Annex D may be followed.

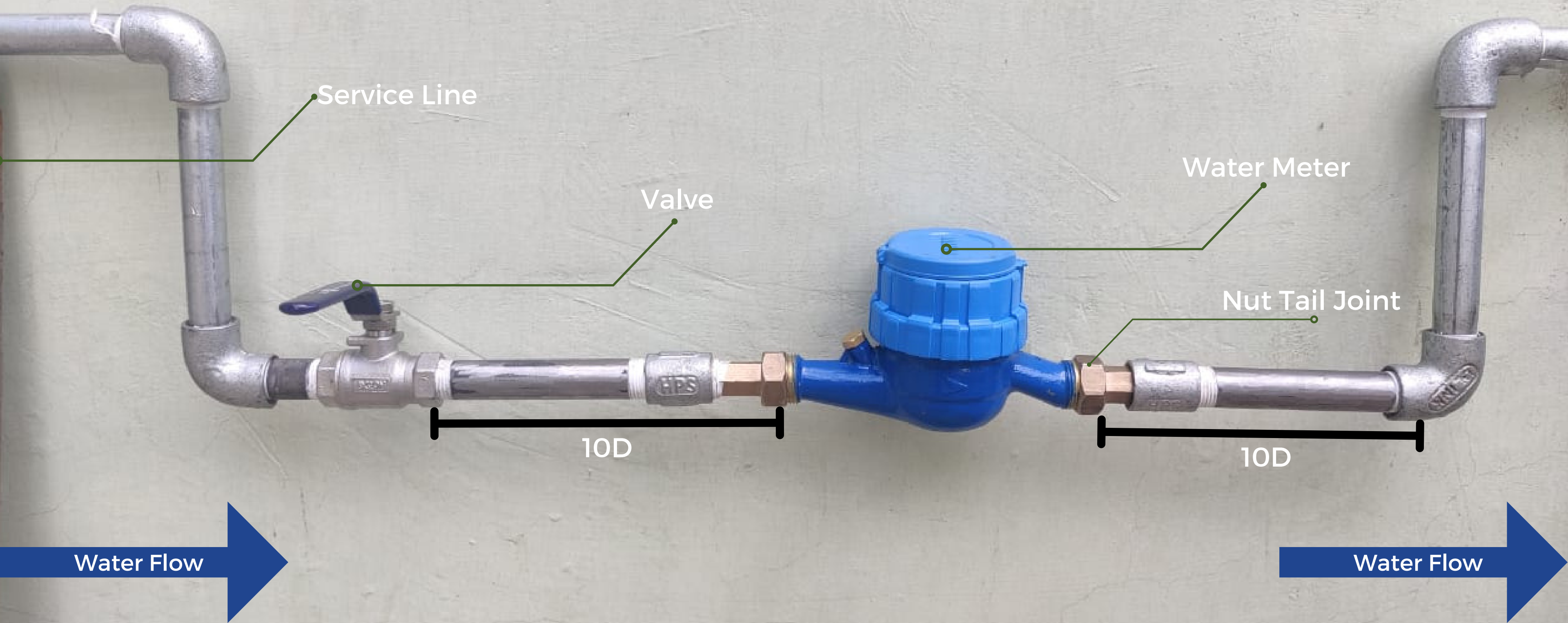
(*Page 7, clause 13.1*) — Insert the following new clause at the end:

13.2 Each water meter shall be supplied with a check list giving following:

Checklist

- a) Check that seal and serial No. of the water meter is intact,
- b) Check test certificate giving test results for pressure tightness, loss of pressure, metering accuracy and minimum starting flow,
- c) Check that before installing meter the line is thoroughly flushed,
- d) Check that the meter is installed according to the direction of flow marked on the meter,
- e) Check that inferential meter is placed horizontally with dial upwards,
- f) Check that the strainer of the meter is not removed, and
- g) Check that the meter has been installed as recommended in the installation drawing, supplied with the check list.

INSTALLATION - BEST PRACTICES



INSTALLATION PROCEDURE

1. Preparation: first step is to identify a secure location on the consumer premises for the water meter installation. The installation area should be visible, away from usual footfall, preferable to install the meter away from direct sunlight and near the compound wall in order to avoid accidental tampering .
2. The service line should be flushed for at least 15 minutes for clearing any debris or dirt or suspended particles that may be present in the service line .

3. The water meter ideally should be installed approximately 100mm below the service line to ensure that some amount of water always stays trapped in the water meter's measuring chamber, it is pertinent to specify that the measuring chamber should not dry up. Since the moving parts in measuring chamber coming in contact with water cannot be artificially greased being used in drinking/potable water supply and the only lubricant used by default is water itself to avoid friction. This simple method will ensure faultless & accurate functioning of the water meter unit during its expected lifespan.

In case the water meter chamber dries up it may start accumulating some deposition from trace chemicals present in the water, whenever the chamber dries. BUT in case of 24 x 7 water supply network it may be installed above or parallel to the service line height while keeping the orientation of reading side upwards and the water meter unit itself placed horizontal to the ground since in this case the water is always present in the measuring chamber .

Alternate arrangement in cases where the installation cannot be done below service line : in such cases an arrangement be made to provide the desired U shape cradle to trap water/moisture by raising the pipe from the service line to a height suitable enough to provide ample scope for establishing the cradle shape to ensure dampness at all times in the measuring chamber .

4. Optionally a non return valve, an air release valve , an external strainer , shutoff valve etc. as desired in the department's mandatory schematics may be installed leaving a distance of 10 time of nominal dia. of the water meter from the water meter itself .

5. Water meter Box , is an ideal protection for water meter unit's proper installation & it shall prove to be an excellent solution for safety of the equipment ,whenever the AMR modules are integrated in near future .

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