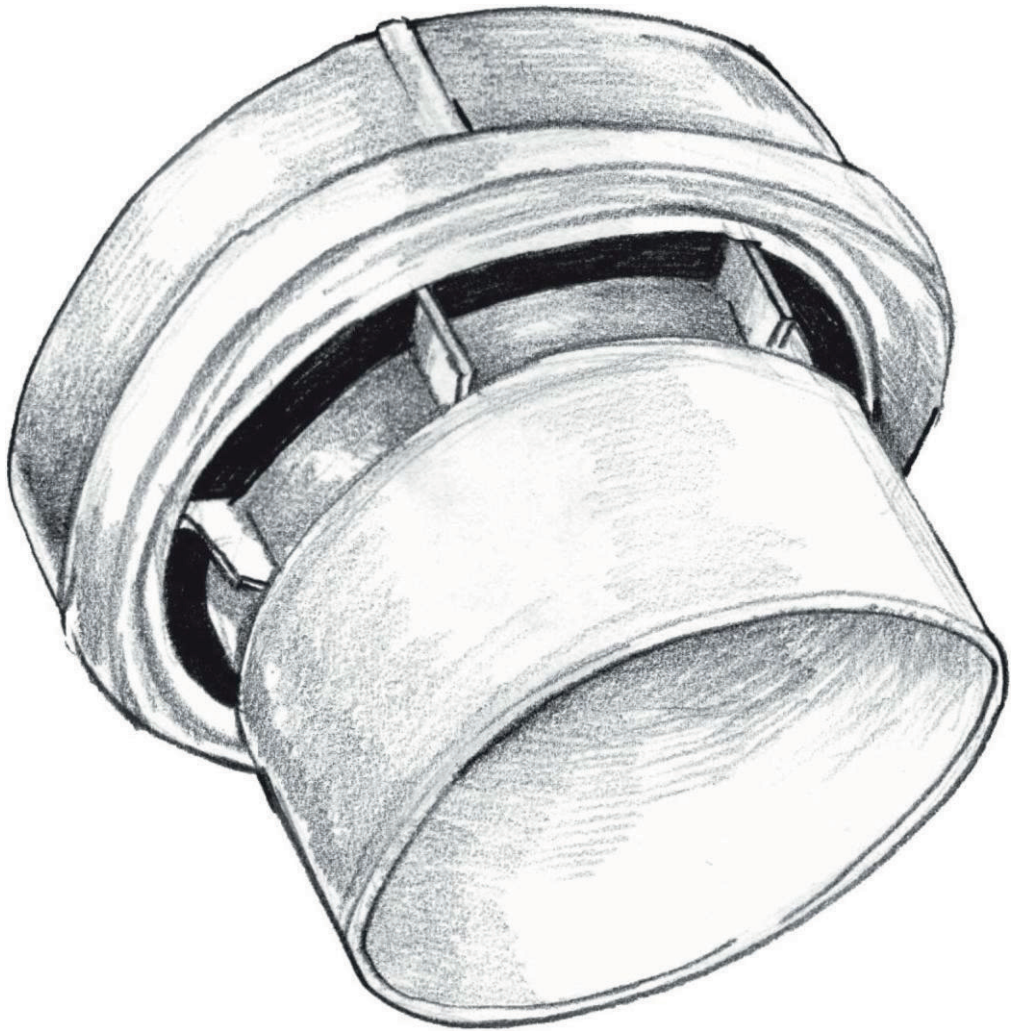


FloPlast

AIR ADMITTANCE



ALTAY
PLUMBING



FLOPLAST AIR ADMITTANCE VALVES

The valves have been designed for above-ground use in conjunction with Building Regulations, (PART H1) and systems designed in accordance with this document. FloPlast's Air Admittance Valves carry the British Standards Institution (BSI) Kitemark (KM512474), as having met the performance requirements of BS EN 12380: 2002 and have been designated with an A1 rating.

FloPlast's Air Admittance Valves provide a means of ventilation to the drainage system to prevent the loss of water seals in traps and consequent release of foul air into the building.

The drainage system, installation and use of FloPlast's Air Admittance Valves must be in accordance with the design data and installation sections of this document.

AFE 32



FloPlast's AFE 32 Air Admittance Valve, comprises of an injection-moulded, two-part acrylonite butadine styrene (ABS) body, snapped together incorporating an ethylene propylene diene monomer (EPDM) sealing ring. The valve incorporates a sliding ABS injection moulded disc and EPDM seal (poppet) which acts as the opening and closing seal.

With the use of the universal adaptor (provided with the product), the AF32 can also be installed onto 40mm and 50mm UK designated pipe.

AVE 100



FloPlast's AVE100 Air Admittance Valve, comprises an injection-moulded, two-part poly vinyl-chloride (PVC-U) body, screwed together incorporating an EPDM sealing ring. The valve incorporates a sliding ABS injection moulded disc and EPDM seal (poppet) which acts as the opening and closing seal.

The AVE100 valve has been designed for use with European designated 100mm pipe.

The valves incorporate spigots with diameters that are in accordance with the standards for waste pipe, including: BS EN 1329-1: 2000, BS EN 1455-1: 2000, BS5255: 1989 and BS 4514: 2001.

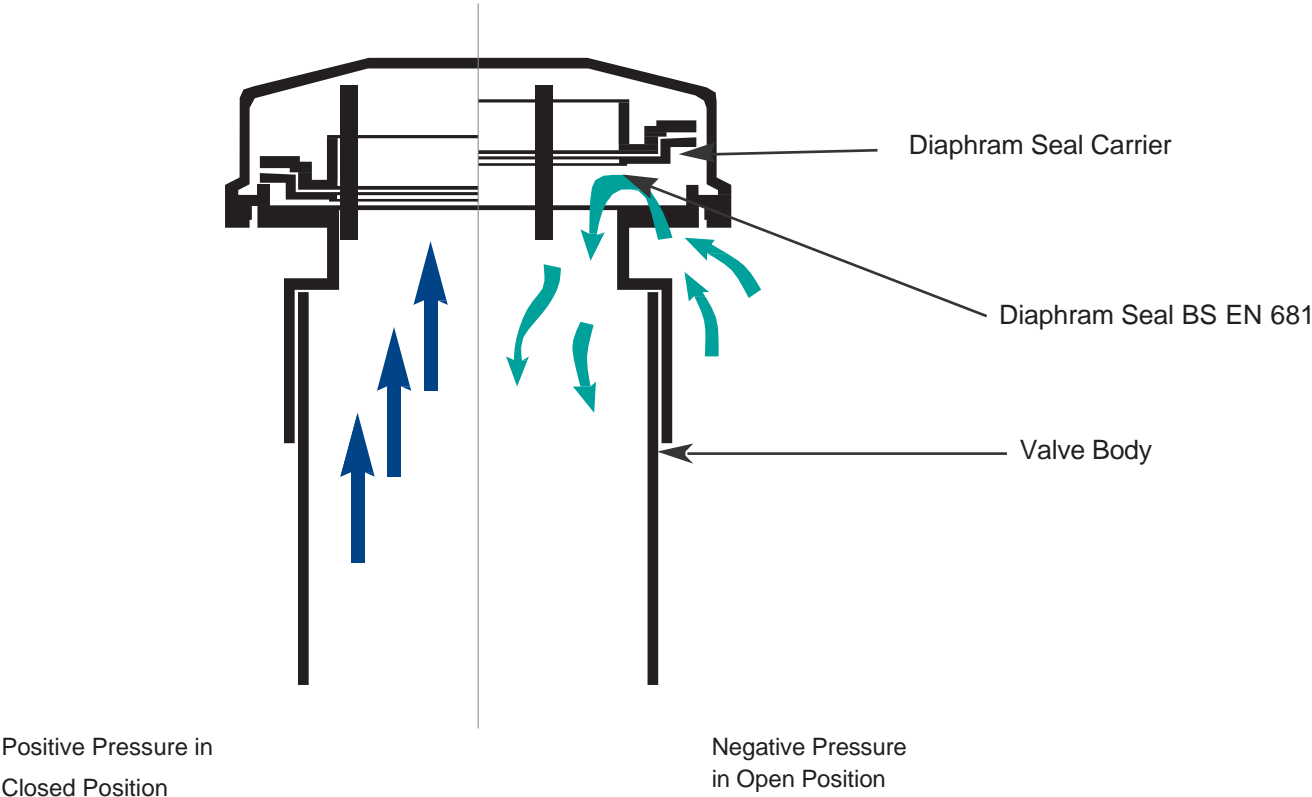
Continuous quality control is exercised during their manufacture and assembly, including visual checks, checks on dimensional accuracy and 100% functional testing of each product. The raw materials and bought-in goods are subject to quality controls as defined within our ISO9001 Quality Management System (FM 501414) audited by BSI

Tablo 1

Valve Size	Product Code	BS EN 12380 Designation
European designated size		
32mm	AFE32	A1
40mm	AFE32	A1
50mm	AFE32	A1
100mm	AVE100	A1

A1 = permitted to be used below flood level in locations where the temperature is in the range of -20°C to +60°C

FloPlast Air Admittance Valve Functioning



Delivery and Site Handling

Valves, complete with their adaptors (when applicable), along with installation instructions are supplied in cardboard boxes and polyethylene bags, to limit the risk of contamination or damage. All valves must be stored upright in their boxes until required for use.

The legend of the distributor is incorporated on to the lid of the product and is shown on the packaging. In addition, all FloPlast valves have CE mark designation A1 to BS EN 12380: 2002, the details of which appear on the boxes

Design Data

The FloPlast Air Admittance Valves when used in above-ground drainage systems designed with BS 12056-1: 2000 and BS 12056-2: 2000 will:

- Admit air under conditions of reduced pressure in the discharge pipes and prevent water seals in traps from being drawn or evacuated.
- Prevent the release of foul air from the drainage system.
- Contribute to the ventilation of the main drain to which the discharge stack incorporating the valve is connected.

The 32mm and 40mm valves are designed for connection to waste pipes to prevent water loss from trap seals by self and induced siphonage arising from water flow in small diameter branch discharge pipes.

The 50mm valve is for use on branch discharge pipes.

The 100mm valves are designed for use on discharge stacks up to 45 metres or 10 storeys high.

The FloPlast valves are designed for use in association with each other or separately.

Drainage System Design

Drainage systems designed in accordance with BS EN 12056-1: 2000 and BS EN 12056-2: 2000 should be based on the airflow data given in Table 2.

Table 2	
Nominal size of pie	Airflow (L/S)
32mm	6.5
100mm	43.0

Note: These results are based on tests carried out by the United Kingdom Building Research Establishment (BRE) in accordance with BS EN 12380: 2002

To prevent self-siphonage a connection to the AFE 32 valve is required within 1500mm of the trap.

To prevent induced siphonage in a row of wash-basins, a AFE 32 valve can be fitted between the two washbasins furthest away from the discharge stack.

Air admittance valves should not be used as the only ventilation to septic tanks or cesspools.

The valve should be installed within the building where it is easily accessible but not subject to interference from vandals.

Effects on Water Seals

The valves will admit sufficient quantities of air into the stack when they are subjected to a reduced pressure and there by prevent loss of the water seals in appliance traps.

Under conditions of increased pressure in the drainage system, each valve will remain closed, thereby preventing the release of foul air into the building.

A pressure increase sufficient to raise the level in the water seal or to cause foul air to bubble up through the seal is an indication that either a drain blockage has occured, the system is being overloaded or otherwise misused.

Maintance

FloPlast valves do not normally require maintenance.
In the event of accidental damage or vandalism the FloPlast valves must be renewed.

Durability

FloPlast valves are manufactured from materials conventional in drainage systems. Repeated opening and closing will not adversely affect the sealing or operation of the valve. When used in the context of this data sheet the product will not be subject to significant deterioration and will have a life equivalent to that of the drainage system in which it is installed.

Installation

Installation must be carried out in accordance with these instructions.

FloPlast AVE100 are available in both UK and European designated sizes respectively, supplied with solvent cement sockets enabling a solvent cement connection to PVC-U pipes to BS4514: 2001 and BS EN 1329-1: 2000.

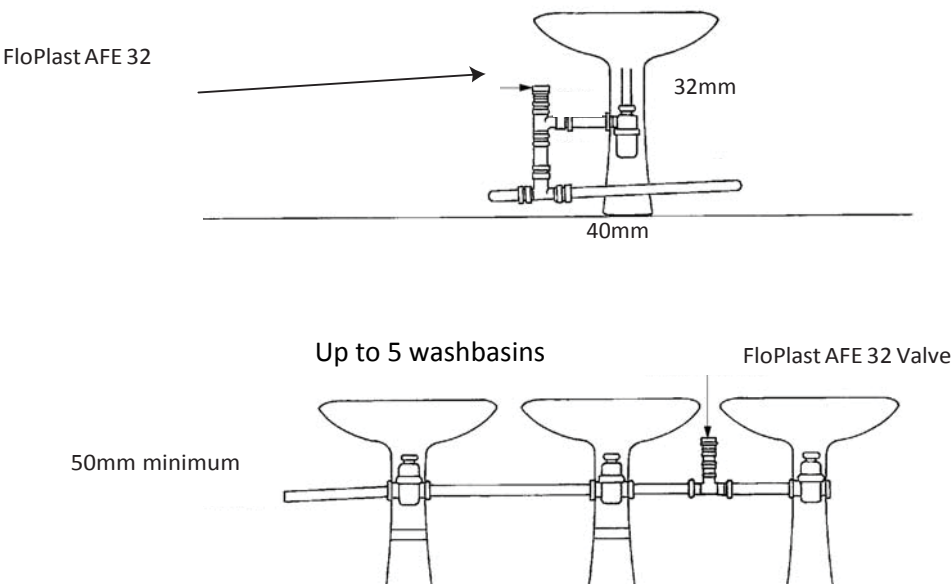
FloPlast AFE 32 valves are available in both UK and European designated sizes, supplied with a solvent weld socket on the main body for 32mm with an adaptor enabling the product to be connected to solvent welded PVC-U and ABS pipe to BS EN 1329-1: 2000, BS EN 1455-1: 2000, BS5255: 1989

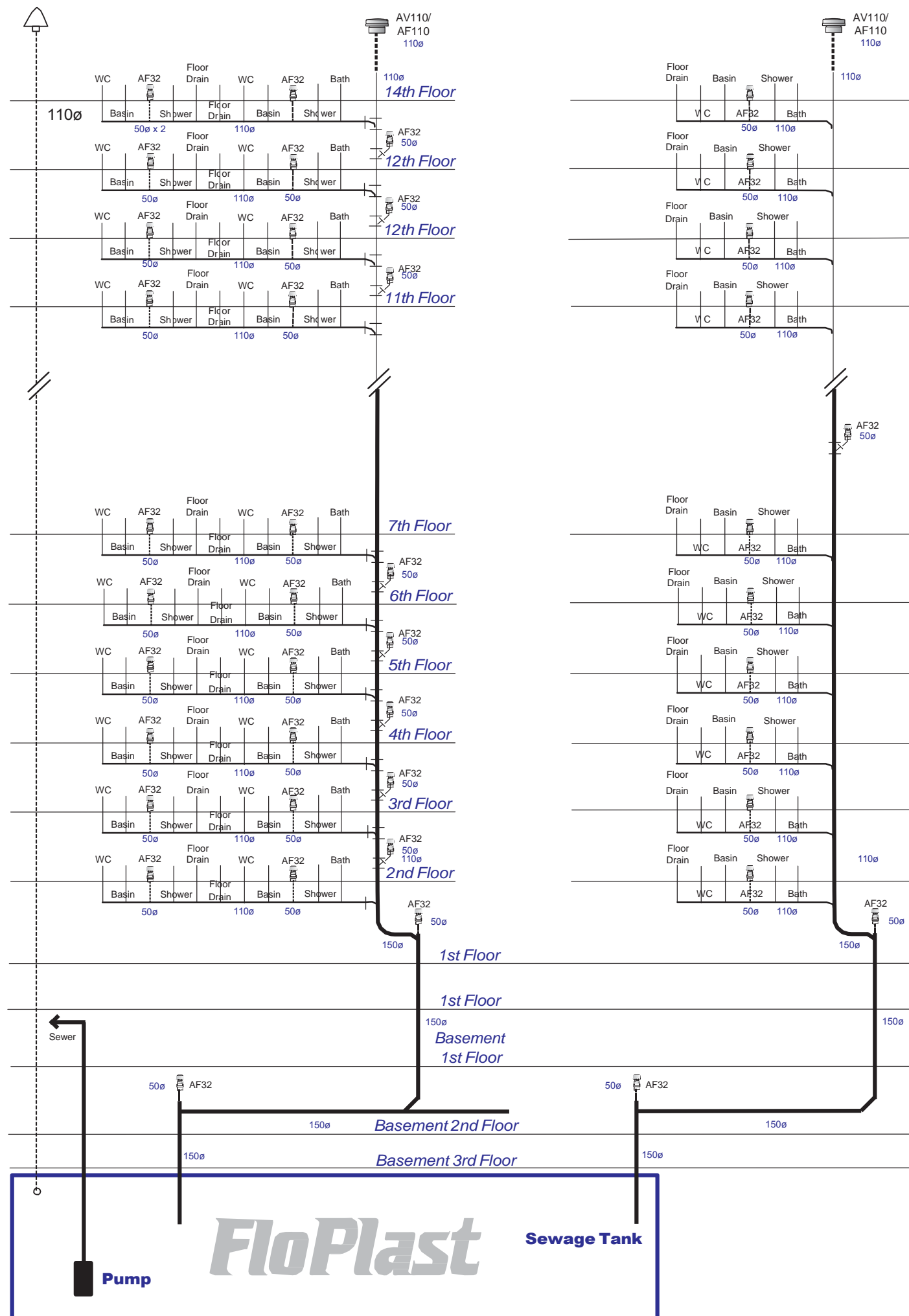
FloPlast AVE100 valves must be fitted in a vertical position a minimum of 200 mm above the highest branch connection . As FloPlast valves are A1 designated to BS EN 12380-1: 2002 it is possible to locate them below the lowest reservoir being vented.

FloPlast AFE 32 valves must be fitted in a vertical position a minimum of 100mm above the pipe being vented. As FloPlast valves are A1 designated to BS EN 12380-1: 2002 it is possible to locate them below the lowest reservoir being vented.

The valves are easily installed in discharge and/or ventilation pipes and eliminate the need to penetrate the roof covering. Care should be taken to avoid contamination of the sealing surfaces, as this may affect airtightness

Floplast Air Admittance Valve Functioning





Kitemark® Licence



PRESENTATION COPY

This is to certify that

FloPlast Ltd
Eurolink Business Park
Castle Road
Sittingbourne
ME10 3FP
United Kingdom

Is the holder of Kitemark Licence No. KM 512474

In respect of:

BS EN 12380

Air admittance valves

and is entitled to use the Kitemark in respect of their products in accordance with the specification(s) as detailed on the Licence document.

For and on behalf of BSI:

Alastair Trivett, Managing Director, BSI Product Services - Global

Licence granted: 7 Nov 2006

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BSI Product Services
 Maylands Avenue, Hemel Hempstead, Hertfordshire HP2 4SQ United Kingdom
 Tel: +44 (0) 1442 230442 Website: www.bsi-global.com

BSI Group Headquarters: 389 Chiswick High Road, London W4 4AL Tel: +44 (0)208 996 9001



Gersan Sitesi Tahsin Kahraman Cd. No: 94/1 06370 Yenimahalle-Ankara-TURKEY
T: +90(312) 397 3060 • F: +90(312) 397 3344

info@altayisisistem.com.tr
www.altayplumbing.com.tr