BRITISH STANDARD UNDERGROUND HYDRANT RANGE
AVK are the renowned market leading innovators, manufacturers and suppliers of BS 750 fire hydrants into the UK, first launching our range in 1979.

As a result of consultation with both the Fire and Rescue Services and Water Utilities, AVK have invested in the development of an entirely new range of fire hydrants which accommodate the current and future requirements of all parties, addressing both public safety and operational criteria.

The premier product in this program is the highly innovative “AVK CLEARWAY” through-bore hydrant which is kitemarked to the full BS 750:2012 standard. This unit retains all of the operational features of a type 2 squat hydrant, however its straight-flow design has more than doubled the flow-rate at the outlet. This design also allows the easy introduction and retrieval of pipeline maintenance and repair devices, and the fast and effective use of water supply continuity equipment in the event of an incident such as a pipe burst.

Our manufacturing facility based in Corby is the AVK UK competence centre for hydrant manufacture and development and is fully accredited with ISO9001, ISO14001 and ISO18001. UK production ensures comprehensive hydrant stocks are available at our National Distribution Centre giving the advantage of next day delivery if required.

Because of our size, competence and expertise, customers should have higher expectations when choosing AVK. That is why we say,

**OUR CUSTOMER PROMISES**

- **EXPECT SOLUTIONS, NOT JUST PRODUCTS**
- **EXPECT GLOBAL LEADERSHIP AND LOCAL COMMITMENT**
- **EXPECT QUALITY IN EVERY STEP**
- **EXPECT PROMPT RESPONSE**
- **EXPECT LASTING INNOVATIONS**
- **EXPECT TOTAL SAVINGS**
- **EXPECT A LONG-TERM PARTNERSHIP**
- **EXPECT IT TO BE EFFECTIVE AND EASY**

"Expect... AVK" means that our customers should rightfully expect us to exceed market standards and become the preferred business partner among our industry.

This brochure is a handy reference to our comprehensive range of underground hydrants and related products, providing the necessary information to enable our customers to select the right product for their application. Our technical team is also available to provide product support and recommendations.

Further information about all the products in the AVK portfolio is available on our website: [www.avkuk.co.uk](http://www.avkuk.co.uk)
The Series 29/91 is the dimensional equivalent of a squat hydrant but with a full, straight bore from inlet to outlet. This allows a greatly enhanced flow-rate and ease of introduction and retrieval of pipe maintenance and measurement equipment. It is suitable for use with water and neutral liquids to a maximum temperature of +70°C.

There is an optional data logger connection allowing hydrants to remain in service and available for use whilst data logging equipment is installed.

Complies with the requirements of BS 750:2012 and BS EN1074-1:2000 and EN14339:2005, underground hydrants. Also to BS EN1074-6 for potable (drinking) water. Resistant to corrosion of other component parts.

With an auto-frost valve as standard it saves 6ltr/min when in use and eliminates the need to fit a solid plug for testing.

### OPTIONS
- Outlet options:
  - Stainless steel (standard) or gunmetal to BS 750 London round thread.
  - Instantaneous (Morris).
  - Belfast.
  - London “V” thread.
  - Internal screwed Norwegian.
  - Bayonet (Dublin).
- Security lock - see page 6 for details.
- Stainless steel stem & A4 bolts
- 25 Bar
- Data logger

### FEATURES & BENEFITS
- Kitemarked to BS 750:2012 Type 2
  - Fire Service and Water Utility’s directive.
  - Stainless steel outlet as standard.
- Through bore
  - Bore dimension Min 80mm. Improved flow for low pressure areas.
  - Providing ease of introduction and retrieval of monitoring, repair and flow stopping equipment.
- Optional data logger connection allowing hydrant to remain in service and available for use.
- Exceeds BS flow requirements
  - Min flow 2000 l/min @ 1.7 Bar (Kv=92); specified in BS EN14339.
  - Actual flow 4802 l/min @ 1.7 Bar (Kv=221) - @ 0.3 bar = 2000 l/min.
- WRAS approvals
- Internal holiday free coating and external fusion bonded epoxy coating in line with WIS 04-52-01 Class B
  - Fully maintainable
  - Cost effective.
- Ductile iron construction
  - More durable, carbon content recorded less per unit than its predecessor. Safer and easier to install and operate.
- Auto-frost drain valve as standard.
  - No stagnant water left in hydrant after use.
  - No bacterial build up. Frost resistant.
- Stem seal changed under pressure.
- 2 1/2” London round thread outlet to BS 750.
- Corrosion resistant construction, compliant with BS EN1074-6 for disinfection products.
- Universal drilled inlet flange BS EN1092:1997, BS 10 Table D/E.
- Patented design.
- 2 year product warranty as standard.
- Internal holiday free coated to a thickness of 250 microns.
- Stainless steel A2 fasteners.
The S29/388 “squat” fire hydrant is suitable for use with water and neutral liquids to a maximum temperature of 70°C.

Replacing the popular S29/288, this new version has a greater flow rate. It also has an added benefit in that the efficient new design uses considerably less material which makes it lighter, which in turn reduces manufacturing and transportation costs therefore significantly reducing the environmental impact.

With an auto-frost valve as standard it saves 6ltr/min when in use and eliminates the need to fit a solid plug for testing.

It complies with the requirements of BS 750:2012 and BS EN1074-2:2004 and EN14339:2005, underground hydrants. Also to BS EN1074-6 for potable (drinking) water. Fully WRAS approved and Kitemarked as standard.

OPTIONS
- PN25 version.
- Loose stopper.
  - Fully vulcanised, no stagnation, corrosion resistant, less thread wear due to silt grit entrainment.
- Outlet options:
  - Stainless steel (standard) or gunmetal to BS 750 round thread.
  - Belfast.
  - London “V” thread.
  - Internal screwed Norwegian.
  - Bayonet (Dublin).
- S29/389 version for application in corrosive atmospheres or exposed locations. With all the benefits of the S29/388 the S29/389 has a stainless steel stem 1.4404 (316) and all exposed fasteners are in A4 stainless steel.
- Security device - see page 6 for details.

FEATURES & BENEFITS
- Kitemarked to BS 750:2012 Type 2
  - Fire Service and Water Utility’s directive.
  - Stainless steel outlet as standard.
- Ductile iron construction
  - Low weight design, more durable, carbon content recorded less per unit than its predecessor. Safer and easier to install and operate.
  - Cost effective.
- 2 1/2” London round thread outlet to BS 750.
- Exceeds BS flow requirements
  - $Kv = 92$ minimum 2000 l/min.
  - $Kv = 96.3$ actual 2092 l/min.
- Internal holiday free coating and external fusion bonded epoxy coating in line with WIS 04-52-01 Class B
- Fully maintainable.
- Stem seals replaceable when hydrant closed and under pressure.
- Corrosion resistant construction compliant with BS EN1074-6 for disinfection products.

- Universal drilled inlet flange
  BS EN1092:1997, BS 10 Table D/E.
- Fixed, draining stopper
  - Fully vulcanised, no stagnation, corrosion resistant, less thread wear due to silt grit entrainment.
- 2 year product warranty as standard.
- Full WRAS approved product.
SERIES 29/61
TYPE I
UNDERGROUND
FIRE HYDRANT

Completing the redesigned range of British Standard hydrants the S29/61 supersedes the S29/60 and benefits from the same innovative advantages applied to the S29/91 & S29/388.

An end of line, Type 1 fire hydrant, the new Series 29/61 is suitable for use with water and neutral liquids to a maximum temperature of 70°C. It is smaller and lighter than its predecessor, and therefore providing the same benefits of reduced raw material content. It has 25 percent greater flow rate than the previous Type 1 version and is WRAS approved.

As with all AVK products this hydrant complies to all of the relevant standards: BS 750:2012 and BS EN1074-2:2004 and EN14339:2005, underground hydrants. Also to BS EN1074-6 for potable (drinking) water.

OPTIONS
- Outlet options:
  - Stainless steel (standard) or gunmetal to BS 750 round thread.
  - Instantaneous (Morris).
  - Belfast.
  - London “V” thread.
  - Internal screwed Norwegian.
  - Bayonet (Dublin).
- A4 stainless steel fasteners and stainless steel stem. 1.4404 available for applications in a corrosive atmosphere or exposed locations.

FEATURES & BENEFITS
- Ductile iron construction
  - Low weight design, more durable. Carbon content reduced less per unit than its predecessor. Safer and easier to install and operate.
  - Cost effective.
- 2 1/2” London round thread outlet to BS 750.
- Exceeds BS flow requirements
  - \( K_v = 92 \) minimum 2000 l/min.
  - \( K_v = 113 \) actual 2470 l/min.
- Fully maintainable.
- Corrosion resistant construction compliant with BS EN1074-6 for disinfection products.
- Inlet flange universally drilled to BS EN1092:1997, PN16.
- Fixed isolating unit
  - Ductile iron wedge fully vulcanised with EPDM rubber. All fasteners stainless steel A2 sealed with hot melt.
- Internal holiday free coating and external fusion bonded epoxy coating in line with WIS 04-52-01 Class B
  - Full corrosion protection.
- 2 year product warranty as standard.
- 1 piece unit
  - Speed and ease of installation.
- WRAS approved.
Security of the UK water infrastructure with specific reference to hydrants is consistently of high priority. Any security device has to address a number of key issues:

- Deliberate/accidental introduction of contaminants - potential public safety risk.
- Vandalism - again a risk of preventing operation and water loss.
- Theft of outlet/stem cap - severe delays in operation, potentially life threatening in an emergency situation.
- Theft of water - loss of income, potential detriment to continuity of supply, possible contamination.
- Quick and easy access for authorised users e.g. Fire services, water company personnel.
- Cost effective.

AVK in response to these issues have developed a low cost but very effective hydrant security system.

The key features are:

- Secures both outlet and stem cap.
- Can be fitted and removed quickly.
- Operation is with a standard T-key/ring-key and bar via an adapter.
- Fits all quality manufactured hydrants.
- WRAS approved fusion bonded epoxy coating (apart from the key which is zinc coated.)