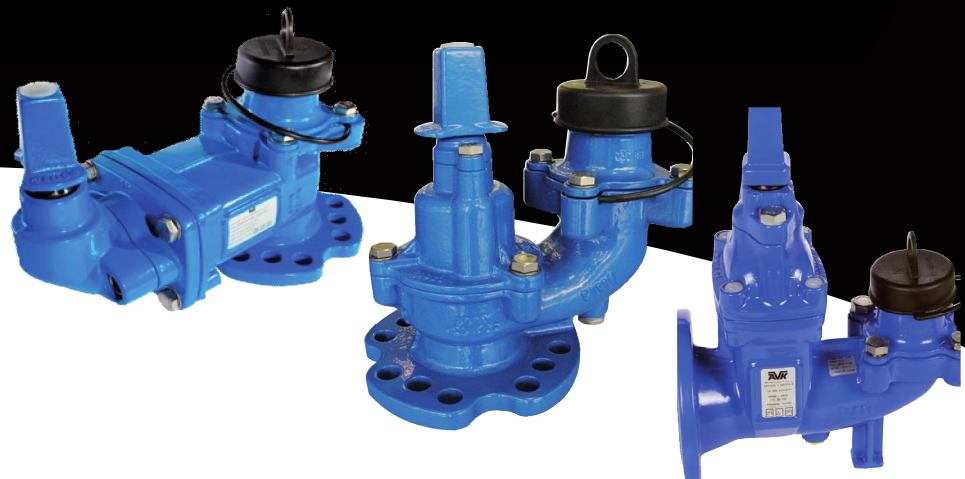
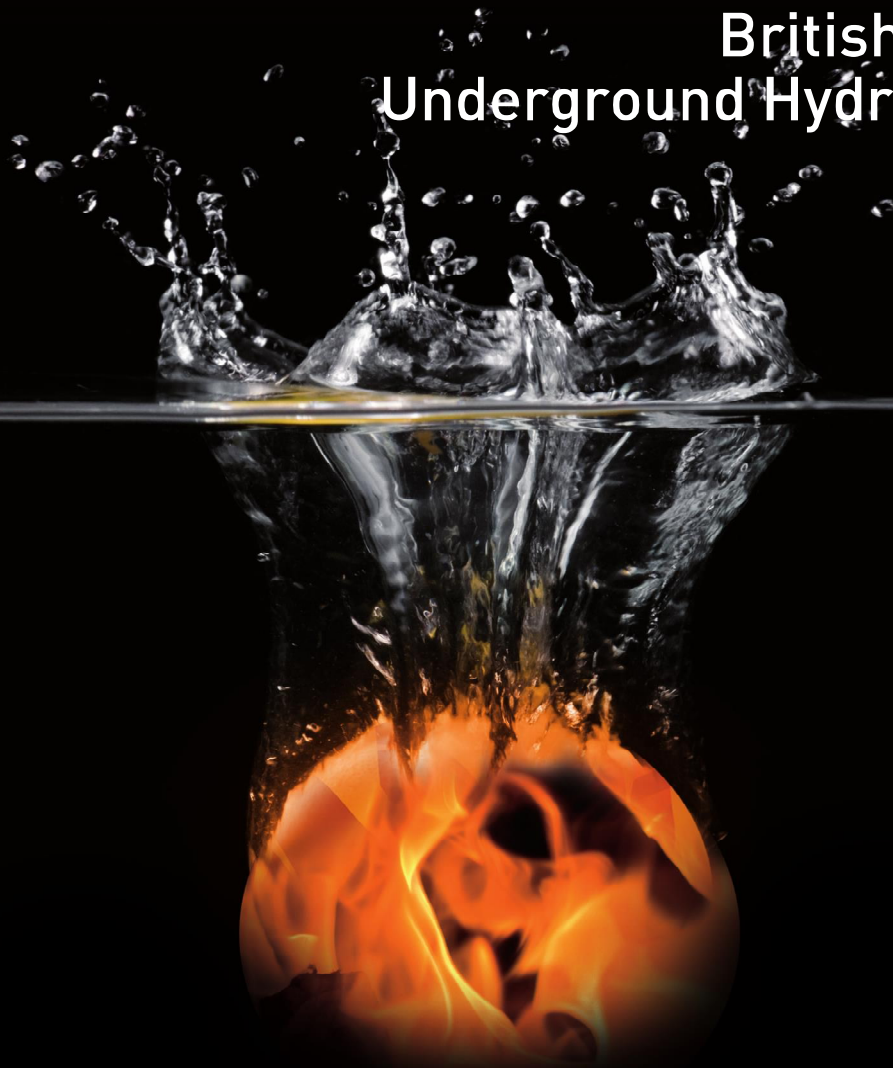


# British Standard Underground Hydrant Range



vision4

AVR

## THE NEW AVK BRITISH STANDARD HYDRANT RANGE

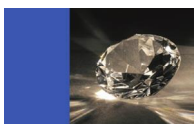
AVK are the renowned market leading innovators, manufacturers and suppliers of BS 750 fire hydrants into the UK, first launching our range in 1979.

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 Kite Marked to the full BS 750 standard. This unit retains all of the operational features of a Type 2 Squat hydrant, however its straight-flow design has over 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 at 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.

All AVK products are supplied under the commitments made in our Customer Service Charter and encompass the four fundamental product values identified in our **vision** programme :-



**QUALITY** All products are designed, built and 100% tested to the relevant standards. All quality processes are audited by BSI.



**RELIABILITY** All AVK products are designed for a long asset life and come with a robust manufacturer's warranty.



**INNOVATION** All products are designed to give added value, reduce true-life cost and utilise the most modern materials.



**ENVIRONMENT** A full carbon reduction policy is in place allowing carbon content measurement to product level.



Aqua Gas Manufakturig, Corby



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)



British Standard Hydrant Range Introduction

# SERIES 29/93 KITE MARKED THROUGH-BORE FIRE HYDRANT

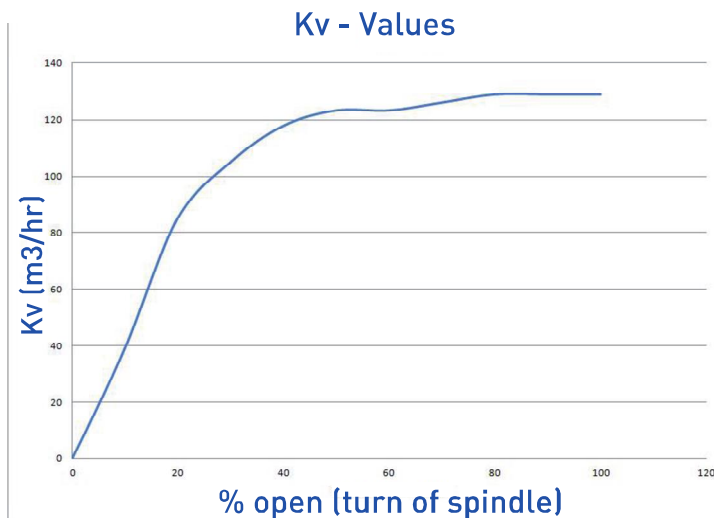
## CLEARWAY

The Kite Marked Series 29/93 with its full, straight bore from inlet to outlet, is the latest in hydrant innovation. The clearway design allows a greatly enhanced flow-rate and ease of introduction and retrieval of pipe maintenance and measurement equipment, via the full 80mm bore

It is suitable for use with water and neutral liquids to a maximum temperature of +70°C. Fully complying with the requirements of BS 750:2006 and BSEN1074-2:2004, EN 14339:2005, underground hydrants and also to BS EN 1074-6 for potable (drinking) water.



**WRAS**



## Features & Benefits

- Through bore
  - Bore dimension 80mm. Improved flow for low pressure areas.
  - Providing ease of introduction and retrieval of monitoring, repair and flow stopping equipment.
- Exceeds BS flow requirements
  - Min flow 2000 l/min @ 1.7 Bar (Kv=92): specified in BSEN14339. Actual flow 4802 l/min @1.7 Bar (Kv=221) - @ 0.3 bar = 2000 l/min.
- Kite Marked
  - Fire Service and Water Utility's directive. Stainless steel outlet as standard.
- WRAS Listed
- Fully maintainable
  - Cost effective.
- Ductile iron construction
  - More durable, carbon content recorded per unit. Safer and easier to install and operate.
- Internal and external fusion bonded epoxy coating to WIS 4-52-01 Class B
- Auto-frost drain valve available as an option.
  - No stagnant water left in hydrant after use. No bacterial build up. Frost resistant.

## Additional Features

- 2 1/2" London round thread outlet to BS 750.
- Corrosion resistant construction, compliant with BS EN 1074-6 for disinfection products.
- Universal drilled inlet flange BS EN1092:1997, BS 10 Table D/E.
- Patented design.
- 2 year product warranty as standard.
- Coated to a thickness of 250 microns.
- Stainless steel A2 fasteners.

## Options

- PN25\*
- Outlet options:
  - Stainless steel (standard) or Gunmetal to BS 750 round thread.
  - Instantaneous (Morris).
  - Belfast.
  - London "V" Thread.
  - Internal screwed Norwegian.
  - Bayonet (Dublin).
- Security lock - see page 6 for details.

\* In development



## 4 SERIES 29/388 TYPE 2 KITE MARKED SQUAT FIRE HYDRANT



The new 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, it is lighter and has a greater flow rate. The reduced raw material content has a lower environmental impact, reduces the effect of cost fluctuations, provides ease of handling and gives a lower carbon content per unit which in turn impacts on manufacturing and transport.

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 750:2006 and BS EN1074-2:2004 and EN 14339:2005, underground hydrants. Also to BS EN 1074-6 for potable (drinking) water. WRAS approved and Kite Marked as standard.

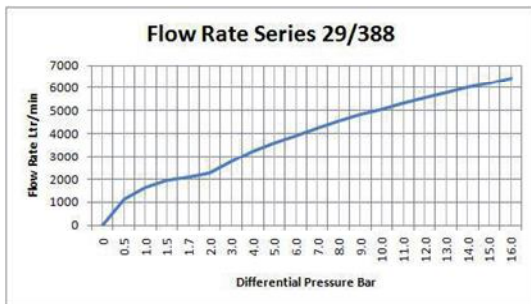


KM53897

**WRAS**  
APPROVED  
PRODUCT

### Features & Benefits

- Ductile iron construction
  - Low weight design, more durable, carbon content recorded per unit. 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.
- Fully maintainable.
  - Allows long term maintenance. Cost effective. Stainless steel A2 fastenings. Simple hex head bolts. No special tools required.
- Stem seals replaceable when hydrant closed and under pressure.
- Corrosion resistant construction compliant with BS EN 1074-6 for disinfection products.
- Inlet flange universally drilled to BS EN 1092:1997, BS 10 Table D/E.
- Fixed, draining stopper
  - Fully vulcanised, no stagnation, corrosion resistant, less thread wear due to silt grit entrapment.
- Fully epoxy coated to WIS-4-52-01 Class B.
- 2 year product warranty as standard.



### Options

- PN25 version.
- Loose stopper.
- Outlet options:
  - Stainless steel (standard) or Gunmetal to BS 750 round thread.
  - Instantaneous (Morris) Belfast.
  - London "V" Thread.
  - Internal screwed Norwegian.
  - Bayonet (Dublin).
- Security lock - see page 6 for details.
- 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. Datasheet available.



## SERIES 29/61 TYPE I UNDERGROUND FIRE HYDRANT

Completing the redesigned range of British Standard hydrants the S29/61 supercedes the S29/60 and benefits from the same innovative advantages applied to the S29/93 & S29/388.

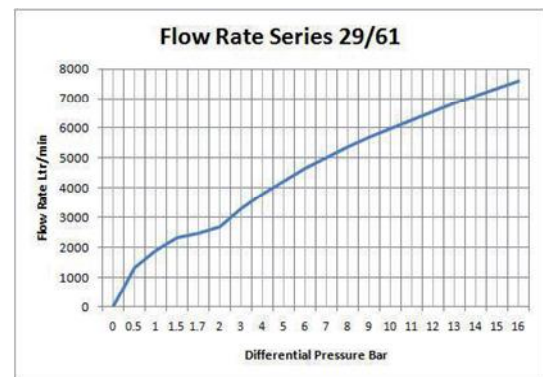
An end of line, Type 1 fire hydrant, the new Series 29/61 is suitable for use with water and neutral liquids to a maximum temperature of 70°C. It is smaller and lighter than its predecessor, and therefore providing the same benefits of reduced raw material content. It has 25 percent greater flow rate 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 750:2006 and BS EN1074-2:2004 and EN 14339:2005, underground hydrants. Also to BS EN 1074-6 for potable (drinking) water.



### Features & Benefits

- Ductile iron construction
  - Low weight design, more durable. Carbon content recorded per unit. 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 = 113 actual 2470 l/min.
- Fully maintainable.
  - Allows long term maintenance. Cost effective. Stainless steel A2 fastenings Simple hex head bolts. No special tools required.
- Corrosion resistant construction compliant with BS EN 1074-6 for disinfection products.
- Inlet flange universally drilled to BS EN 1092:1997, PN16.
- Fixed isolating unit
  - Ductile iron wedge fully vulcanised with EPDM rubber. All fasteners stainless steel A2 sealed with hot melt.
- Fully bonded epoxy coating to WIS 4-52-01 Class B
  - Full corrosion protection.
- 2 year product warranty as standard.
- 1 piece unit
  - Speed and ease of installation.



### 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.



## HYDRANT OUTLET OPTIONS & SECURITY DEVICE



**Series 29 B**  
Fire Hydrant Outlet  
Belfast Outlet, Flanged (LG2)  
Gunmetal BSEN1982 CC491K-GS  
M16: 2908094  
M12: 2908094111



**Series 29 B**  
Fire Hydrant Outlet  
Stainless Steel Outlet 2 1/2" RT  
Epoxy Coated  
BSEN10088 W1.4021  
M12: 290801311



**Series 29 B**  
Fire Hydrant Outlet  
London 'V' Thread Outlet - Bolted  
BSEN1982 CC491K-(BS1400 LG2)  
M16: 2908064  
M12: 290806411



**Series 29 B**  
Fire Hydrant Outlet  
Bayonet Coupling  
Epoxy Coated  
Flat M12: 290809511



**Series 29 B**  
Fire Hydrant Outlet  
Inst. Outlet, Flanged (LG2)  
Gunmetal BSEN1982 CC491  
CC491K-GS: 290809611

## HYDRANT SECURITY DEVICE TO SUIT S29/93 & S29/388

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:

- Theft of water - loss of income, potential detriment to continuity of supply, possible contamination.
- Theft of outlet/stem cap - severe delays in operation, potentially life threatening in an emergency situation.
- Vandalism - again a risk of preventing operation and water loss.
- Deliberate/accidental introduction of contaminants - potential public safety risk.
- 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 coating.



## ASSOCIATED PRODUCTS



### Series 21

#### Resilient Seated Gate Valves

Cap Top Operation, Ductile Iron, EPDM Rubber Wedge, PN16, Epoxy Coated, available DN50-600mm



### Series 37

#### Metal Faced Gate Valves

Cap Top Operation, Ductile Iron, Metal Faced, PN16, Epoxy Coated, available DN50 - 600mm plus.



### Series 25

#### Gate Valves - Post indicator / OS&Y rising stem

Cast Iron/Grey Cast Iron PN16, AWWA C509 (NRS), available DN65-300mm.



### Series 712

#### Ductile Iron Flanged Fittings

BS/EN545, PN10/16, Epoxy Coated, Various Fittings, available DN50-600mm.



### Series 600

#### Flange Adaptors and Couplings

Ductile Iron Construction, EPDM Gaskets, Epoxy Coating, PN16, available DN32-400mm plus.



### Series 75

#### Butterfly Valves

Various Material and Connections available, DN50-600mm plus.



### Series 702

#### Knife Gate Valve

Non-rising Stem and Handwheel, Grey Cast Iron, Epoxy Coating, Flange Drilling options available, DN50-600mm plus.



### Series 80/31-04

#### Surface box for gate valves, 'Futura'

Housing of PA+, lid of cast iron/black or blue PP, round or square top, lid inscription "W", fixed height.



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