



# FIRE PROTECTION PRICE LIST 2024

Expect... **AVR**



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## THE AVK GROUP

### DEDICATED PEOPLE



4,800+ employees,  
hereof approx. 250 in  
AVK International A/S



### GLOBAL ORGANISATION

100+ AVK companies  
worldwide



### CONTINUOUS GROWTH

Net turnover EUR 1053  
million (2022/23)

# AVK YOUR LONG-TERM PARTNER





AVK has been in the valve business for more than 50 years. Today AVK is a global market leader within water supply, fire protection, wastewater treatment and gas distribution.

#### **The wide AVK range**

AVK International A/S specialise in manufacturing gate valves, double eccentric butterfly valves, ball check valves, service connection valves, Supa Maxi™ couplings, extension spindles and selected types of hydrants and accessories.

We add numerous products to our range from the more than 20 other AVK factories in Europe as well as from AVK factories worldwide. These AVK factories specialise in other types of valves, hydrants and accessories, and jointly we are capable of offering a very wide selection of high quality products.

#### **Global leadership and local commitment**

Our geographical presence and product range is global, but our focus is local. Our customers are serviced by local sales organisations, in AVK's own sales companies or within our carefully selected distributors, who engage in their customers' needs. We are therefore able to offer tailor-made solutions that match local specifications.

#### **A beneficial partnership**

We want to build and invest in a long-term partnership with our customers. To earn our role as a long-term partner, we strive to deliver value for money. We deliver error-free, durable and maintenance-free products that constitute the most cost-efficient solution for our partners in the long run.

# 10-YEAR WARRANTY

AVK manufactured products are guaranteed against defects in workmanship and material used for a period of 10 years from the date of the passing of risks to the buyer (Incoterms 2020). This warranty shall only be valid subject to the below terms and conditions.

This warranty shall not apply: (i) if the AVK product is used for an application for which it has not been designed or which has not been recommended by AVK; (ii) in case of changes to the chemical composition of the medium or treatment of the medium for which the AVK products is used, unless such change has been preapproved in writing by AVK; (iii) if the AVK product has not been installed in accordance with AVK installation instructions, if any, and accepted codes of good practice; (iv) in case of lack of or faulty maintenance; (v) in case of normal wear and tear or (vi) in case of use in electronic products, incl. VIDI products.

The buyer shall immediately notify AVK of any defective product claim. AVK shall have the right to inspect said AVK product, and the buyer shall, if requested, return the defective AVK product to AVK with transportation prepaid. The buyer shall assume all responsibility and expenses for removal, reinstallation and freight charges in connection to the foregoing remedy.

The obligation under this warranty shall be limited to adjustment, repair or replacement of the defective AVK products, ex works point of sale, at AVK's option. AVK shall accept no liability for product failure caused by abnormal operation conditions, war, violence, storm, cataclysm or any other cases of force majeure.

In no event shall AVK be liable to the buyer or to any third party for loss of profits, loss of revenue, loss of business opportunity, loss of time or for any indirect, incidental, special, consequential, punitive or exemplary damages arising out of or related to any AVK products provided by AVK.

Any product which has been supplied but not manufactured by AVK shall be subject to the warranty terms of the manufacturer.

The decision of AVK in relation to any claims or disputes over this warranty shall be final. This warranty shall be in addition to AVK's general terms and conditions of sale or any other specific conditions of contract which may govern the supply of AVK products, and this warranty shall apply when the warranty obligations according to such terms have expired.

Kind regards



Morten S. Nielsen  
Chairman AVK Water





# EXPECT US TO EXCEED MARKET STANDARDS

## **Inhouse R&D**

In our Development Department in Denmark, ideas and suggestions for new products are gathered, and existing products are updated continuously.

We use FEA (Finite Element Analysis) to optimise the strength and geometry of our components and CFD (Computational Fluid Dynamics) analyses to validate different product designs prior to creating physical prototypes, enabling us to predict consequences in cases where it is impossible to create full scale tests on physical products.

We make our own test and production equipment, and in our flow lab, we conduct thorough prototype and life cycle tests prior to release for production.

## **Expect... AVK**

In our business there are five cornerstones that must be in place in order to meet customer expectations: Quality, reliability, innovation, sustainability and customer service.

But we need to go further than that. We go further to exceed our customers' needs and expectations.

"Expect... AVK" means that our customers should rightfully expect us to exceed market standards. "Expect... AVK" means that we relentlessly strive for increased customer benefits!

To ensure that we keep pushing the boundaries of what the market can expect, we have formulated promises that we will strive to deliver in all our markets:

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

See more on [www.avkvalves.eu](http://www.avkvalves.eu)



# UL & FM APPROVALS PROPERTY LOSS PREVENTION

Product standards and approvals are ensuring quality, global recognition, safety and standardization. Approvals and listings are often required by the market and a listed mark shows the customer that the product has been tested according to some minimum requirements for its category. In addition, it shows that the supplier has committed to regular tests and audits as being performed by the approval organisation.

The UL and FM approvals are some of the most well recognized global standards and being able to mark our products with these adds great value.



## AVK products with UL & FM approval

Since we always aim at the highest quality, most of our products for fire protection applications are approved according to both UL and FM. We have thus committed to meet the standards and requirements set by these well-recognized global organisations and to continuously test and control our product ranges accordingly.

Our UL listed and FM approved products count dry and wet barrel hydrants, butterfly valves, NRS gate valves, OS&Y gate valves, post indicators, wall post indicators and swing check valves.

## FM Approval

FM Global is a property insurance company operating from the philosophy that most losses can be prevented. They provide insurance products and property loss prevention engineering services to protect their clients' worldwide operations.

FM Approval is part of the FM Global Group and it is a testing and certification service. Products that pass the five-step approval process are issued the globally acknowledged FM mark to support property loss prevention and to signify that they will perform as expected.

## UL standards

Underwriters Laboratories (UL) is a product safety testing and certification company having developed more than 1,600 standards. UL is certifying, validating, testing, verifying, inspecting, auditing, advising and educating customers in 100+ countries.

In order to become UL Listed, a representative sample of the product to be listed must be tested and meet the safety requirements set. Products having the UL mark are covered by the Underwriters Laboratories follow-up program, which continuously tests the products to ensure that the UL standards and requirements are always met.



## AVK wet barrel fire hydrants series 24

### UL 246 standard for hydrants for fire protection service:

These requirements cover the performance of and methods for testing hydrants intended for use in piping systems supplying water for fire protection service.

The UL 246 approval tests include a 10-day moist ammonia air stress cracking test, testing of rubber parts according to UL 157 and tests of operation, leakage and head loss.

### FM class number 1511:

Shell strength is tested by a pressure of four times the working pressure lasting for five minutes, and after the test there should be no evidence of damage. The standard also includes testing seat leakage at two times working pressure for five minutes without damage or leakage to be seen.

Furthermore, hose outlet strength, stem strength and head loss are tested.



**AVK dry barrel fire hydrants series 27**  
**The UL 246 standard for hydrants for fire protection service:**

Same as mentioned under series 24.  
The UL 246 approval tests include a 10-day moist ammonia air stress cracking test, testing of rubber parts according to UL 157 and tests of operation, leakage and head loss.

**FM class number 1510:**

Shell strength is tested by a pressure of four times the working pressure lasting for five minutes, and after the test there should be no evidence of damage. The standard also includes testing seat leakage at two times working pressure for five minutes without damage or leakage to be seen.

Furthermore, hose outlet strength, stem strength and head loss are tested, and finally, the breakable system is tested by a pressurized hydrant (at maximum working pressure) being hit with a force sufficient enough to break. After separation, the hydrant must have a leakage of maximum 19 dm<sup>3</sup>/min while pressure is maintained for two minutes.

**AVK post indicators series 34**  
**UL 789 standard for indicator posts for fire protection service:**

These requirements cover indicator posts, including wall and underground types, for use in operating valves of the inside-screw pattern and for indicating the position of the gates in such valves. Indicator posts are primarily intended for use with valves controlling water supplies to sprinkler, deluge, water spray, foam, and standpipe systems used in private fire service where connections enter buildings.

The UL 789 standard includes test of rotating and moving target mechanisms of position indicators and performance tests involving a 1,000 cycle operation test of polymeric parts.

**FM class number 1110:**

Visibility of the indicator is tested on a 12 meter distance and by simulating a heavy rainstorm it is waterproof tested to make sure that there is no collection of water inside.

A vertical indicator post should withstand 1220 Nm in both directions (for valves up to 350mm) – the value is 815 Nm for a wall type indicator post (up to 250mm).

Finally, non-metallic components are tested for resistance to temperatures as high as 427°C for two hours. After being cooled down again, the indicator post should be capable of full operation.

**AVK gate valves series 45, 55 and 145**  
**UL 262 standard for gate valves for fire protection service:**

These requirements cover gate valves intended for installation in piping systems supplying water for fire protection service.

The UL 262 standard includes a 10-day moist ammonia air stress cracking test, test of rubber parts according to UL 157, test of coating for seating surfaces and corrosion test for stems.

**FM class number 1120 and 1130:**

The valve body, cover and bonnet are subjected to a hydrostatic test of four times working pressure (or at least 48 bar) for five minutes and there should be no sustaining cracking or permanent distortion.

Stem seal leakage is tested on a partially open valve subjected to working pressure for five minutes. No visible stem leakage must appear. Both resilient and metal seats are also leakage tested.

Furthermore, rubber parts are tested for water absorption, corrosion protection coating, aging and bonding adequacy and the strength of gate, stem seal, indicator post and handle are tested.

**AVK butterfly valves series 75 (indicating valves)**

**FM class number 1112**

Disc strength is tested at two times working pressure held for five minutes and repeated for both directions. Hydrostatic strength is tested at a hydrostatic pressure of four times working pressure (or at least 48 bar) for five minutes. No visible rupture, cracking or permanent distortion of the valve body must be seen.

Seat leakage is tested at working pressure and at 125% of working pressure for five minutes each. If there is any leakage, this should be compared to the allowed limits based on the seat type. The stem seal leakage is tested at working pressure in partially open position for five minutes, and cycling the disc six times during this time span, with no visible stem leakage allowed.

Furthermore, the FM standard also dictates tests of valve assembly strength, ultimate operator torque, durability, close quarters durability (butterfly type), friction loss determination, water hammer, indicator strength, water absorption, aging, corrosion protection coating and much more.

**AVK check valves series 5190**

AVK series 5190 products for fire protection meet the UL 312 standard. The products 5190/10-001 and 5190/20-001 are furthermore approved according to the FM 1210 standard.

**UL 312 Standard for check valves for fire protection service:**

These requirements cover check valves DN25 and larger, used in piping systems supplying water for fire protection service. The UL 312 approval tests include a cycling performance test, testing of rubber parts, adhesion test for resilient seat materials and leakage test.

**FM class number 1210:**

The valve is subject to a cycle test of 50,000 cycles, no more than six cycles per minute. The test is carried out at atmospheric pressure and no excessive wear, damage or failure of any valve component must occur. Seat leakage tests are performed on resilient seat and metal-to-metal seats. For the resilient seat, no leakage is allowed during test with hydrostatic pressure of 2, 6.8 and 12 bar (and working pressure if higher than 12 bar) for five minutes each.

For the metal-to-metal seat, leakage must not exceed a value of approximately 11.8 ml/hour per centimeter of nominal valve size when subjected to 2, 6.8 and 12 bar (and working pressure if higher than 12 bar) for five minutes each.

In addition, clapper strength, hydrostatic strength, friction loss determination, bonding adequacy, water absorption and aging are also tested according to FM 1210 standards.











# GATE VALVES

AVK gate valves comply to the highest standards and are renowned worldwide due to the high quality and durability.



Our gate valves are characterized by a unique wedge design with fixed, integral wedge nut and our own rubber compound that ensures reliable operation and long lifespan.

### UL & FM approved gate valves

AVK offers a wide range of gate valves in a slim modern design and resilient seat even up to DN600.

OS&Y (Outside Screw and Yoke) valves are used in above-ground installations, where the rising stem design makes it easy to recognize the wedge position, open or closed, even at a distance.

The yoke is prepared for installation of a fixed monitoring switch enabling a very fast and easy switch installation. NRS (non-rising stem) gate valves can be used for both underground and above ground installation.

The valves are available with ANSI class 150 drilling as well as PN16 drilling and with stem of stainless steel or alu-bronze.

### VdS approved gate valves

We offer flanged gate valves and grooved end gate valves, both with position indicator showing the wedge position.

### 145/40-001

Flanged NRS gate valve with wrench nut  
UL/FM approved  
Slim design

Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
145-065-40-02396100	65	CL. 150	13	C	1,309.00
145-080-40-02396100	80	CL. 150	17	A	1,522.00
145-100-40-02396100	100	CL. 150	22	C	2,442.00
145-150-40-02396100	150	CL. 150	43	A	3,508.00
145-200-40-02396100	200	CL. 150	76	C	5,167.00

### 145/46-001

Flanged gate valve with rising stem, OS&Y  
UL/FM approved  
Slim design

Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
145-065-46-02366120	65	CL. 150	14	C	1,557.00
145-080-46-02366120	80	CL. 150	18	A	1,804.00
145-100-46-02366120	100	CL. 150	26	A	2,431.00
145-150-46-02366120	150	CL. 150	51	C	3,290.00
145-200-46-02366120	200	CL. 150	90	C	5,379.00



**145/50-001**

Flanged NRS gate valve with wrench nut  
UL/FM approved  
Slim design  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
145-065-50-01396100	65	PN10/16	13	A	1,358.00
145-080-50-01396100	80	PN10/16	17	C	1,578.00
145-100-50-01396100	100	PN10/16	22	A	2,442.00
145-150-50-01396100	150	PN10/16	43	A	3,637.00
145-200-50-00396100	200	PN10	76	C	5,167.00
145-200-50-01396100	200	PN16	76	A	5,167.00

Notice: PN10/16 flange drilling

**145/56-001**

Flanged gate valve with rising stem, OS&Y  
UL/FM approved  
Slim design  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
145-065-56-01366120	65	PN10/16	14	A	1,615.00
145-080-56-01366120	80	PN10/16	18	A	1,870.00
145-100-56-01366120	100	PN10/16	26	A	2,431.00
145-150-56-01366120	150	PN10/16	51	C	3,290.00
145-200-56-00366120	200	PN10	90	A	5,578.00
145-200-56-01366120	200	PN16	90	A	5,578.00

Notice: PN10/16 flange drilling

**45/56-001**

Flanged gate valve with rising stem, OS&Y  
UL/FM approved  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
45-050-56-01614020	50	PN10/16	19	A	1,618.00
45-065-56-01614020	65	PN10/16	23	C	1,453.00
45-080-56-01614020	80	PN10/16	25	A	1,526.00
45-100-56-01614020	100	PN10/16	39	A	2,228.00
45-150-56-01614020	150	PN10/16	63	A	3,061.00
45-200-56-00614020	200	PN10	97	C	4,824.00
45-200-56-01614020	200	PN16	97	A	4,816.00
45-250-56-006B4020	250	PN10	158	C	9,016.00
45-250-56-016B4020	250	PN16	158	C	9,349.00
45-300-5C-006B4020 <sup>(1)</sup>	300	PN10	239	C	12,528.00
45-300-5C-016B4020 <sup>(1)</sup>	300	PN16	239	C	12,081.00
45-350-5C-016B4020 <sup>(1)</sup>	350	PN16	290	C	16,167.00
45-400-5C-006B4020 <sup>(1)</sup>	400	PN10	310	C	21,108.00
45-400-5C-01B4020 <sup>(1)</sup>	400	PN16	310	C	20,501.00

<sup>(1)</sup> Stem in aluminium bronze. 200 PSI/13.7 bar

**45/5C-002**

Flanged gate valve with rising stem, OS&Y  
Alu-bronze stem  
UL/FM approved  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Epoxy coating  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
45-050-5C-02614020	50	CL. 150	19	C	1,333.00
45-065-5C-02614020	65	CL. 150	23	C	1,340.00
45-080-5C-02614020	80	CL. 150	26	C	1,608.00
45-100-5C-02614020	100	CL. 150	39	C	2,457.00
45-150-5C-02614020	150	CL. 150	63	C	3,957.00
45-200-5C-02614020	200	CL. 150	96	C	5,192.00
45-250-5C-026B4020	250	CL. 150	158	C	7,539.00
45-300-5C-026B4020	300	CL. 150	239	C	10,508.00
45-350-5C-02614020	350	CL. 150	387	C	15,764.00
45-350-5C-026B4020	350	CL. 150	387	C	15,764.00
45-400-5C-02614020	400	CL. 150	402	C	19,641.00
45-400-5C-026B4020	400	CL. 150	402	C	19,641.00

Notice: ANSI CL. 150 flange drilling



**45/59-010**

Flanged NRS gate valve with post indicator flange  
UL/ULC listed and FM approved  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
45-065-59-016141	65	PN10/16	29	C	1,525.00
45-080-59-016141	80	PN10/16	32	C	1,757.00
45-100-59-016141	100	PN10/16	36	B	2,539.00
45-150-59-016141	150	PN10/16	51	A	3,845.00
45-200-59-006141	200	PN10	77	C	5,402.00
45-200-59-016141	200	PN16	77	C	5,402.00
45-250-59-006B41	250	PN10	130	C	7,818.00
45-250-59-016B41	250	PN16	130	B	7,818.00
45-300-59-006B41	300	PN10	195	B	10,816.00
45-300-59-016B41	300	PN16	198	C	11,216.00
45-350-5D-016B41	350	PN16	350	C	12,888.00
45-400-5D-006B41	400	PN10	376	C	15,825.00
45-400-5D-016B41	400	PN16	376	C	15,825.00

Notice: PN10/16 flange drilling

**45/59-015**

Flanged NRS gate valve with post indicator flange  
UL/ULC listed and FM approved  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
45-050-59-026141	50	CL. 150	25	C	1,440.00
45-065-59-026141	65	CL. 150	29	C	1,323.00
45-080-59-026141	80	CL. 150	32	C	1,580.00
45-100-59-026141	100	CL. 150	36	C	1,683.00
45-150-59-026141	150	CL. 150	51	C	2,649.00
45-200-59-026141	200	CL. 150	77	C	3,848.00
45-250-59-026B41	250	CL. 150	130	C	5,865.00
45-300-59-026B41	300	CL. 150	198	C	9,033.00
45-350-5D-026B41	350	CL. 150	350	C	11,206.00
45-400-5D-026B41	400	CL. 150	376	C	17,399.00

Notice: ANSI CL. 150 flange drilling

**45/59-020**

Flanged NRS gate valve with wrench nut  
UL/FM approved  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
45-050-59-01614	50	PN10/16	23	A	1,525.00
45-065-59-01614	65	PN10/16	29	C	1,260.00
45-080-59-01614	80	PN10/16	32	A	1,326.00
45-100-59-01614	100	PN10/16	36	A	1,915.00
45-150-59-01614	150	PN10/16	51	A	2,858.00
45-200-59-00614	200	PN10	77	C	3,932.00
45-200-59-01614	200	PN16	77	A	4,097.00
45-250-59-016B4	250	PN16	130	B	7,512.00
45-300-59-006B4	300	PN10	186	B	10,501.00
45-300-59-016B4	300	PN16	194	B	10,501.00
45-350-5D-016B4	350	PN16	342	C	14,464.00
45-400-5D-006B4	400	PN10	369	C	16,241.00
45-400-5D-016B4	400	PN16	369	C	16,241.00

Notice: PN10/16 flange drilling

**45/59-025**

Flanged NRS gate valve with wrench nut  
UL/FM approved  
Face-to-face dimension according to ANSI B16.10  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
45-050-59-02614	50	CL. 150	23	A	1,470.00
45-065-59-02614	65	CL. 150	29	C	1,280.00
45-080-59-02614	80	CL. 150	32	C	1,349.00
45-100-59-02614	100	CL. 150	36	C	1,915.00
45-150-59-02614	150	CL. 150	51	C	3,544.00
45-200-59-02614	200	CL. 150	77	C	4,257.00
45-250-59-026B4	250	CL. 150	129	B	7,244.00
45-300-59-026B4	300	CL. 150	194	C	10,215.00
45-350-5D-026B4	350	CL. 150	342	C	14,464.00
45-400-5 D-026B4	400	CL. 150	369	C	16,241.00

Notice: ANSI CL. 150 flange drilling

**55/26-003**

Flanged resilient seat gate valve with rising stem, OS&Y  
AISI 316 stainless steel stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron

EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-26-02620001	450	CL. 150	728	B	31,235.00
55-500-26-02620001	500	CL. 150	783	B	32,771.00
55-600-26-02620001	600	CL. 150	1049	B	50,632.00

**55/26-004**

Flanged resilient seat gate valve with rising stem, OS&Y  
AISI 316 stainless steel stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron

EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close

Notice: PN16 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-26-01620001	450	PN16	728	B	33,104.00
55-500-26-01620001	500	PN16	783	B	34,640.00
55-600-26-01620001	600	PN16	1049	B	52,502.00

**55/2P-003**

Flanged resilient seat gate valve with rising stem, OS&Y  
Alu-bronze stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron

EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2P-02620001	450	CL. 150	728	B	33,854.00
55-500-2P-02620001	500	CL. 150	783	B	35,389.00
55-600-2P-02620001	600	CL. 150	1049	B	53,251.00





**55/2P-004**

Flanged resilient seat gate valve with rising stem, OS&Y  
Alu-bronze stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close

Notice: PN16 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2P-01620001	450	PN16	728	B	35,724.00
55-500-2P-01620001	500	PN16	783	B	37,258.00
55-600-2P-01620001	600	PN16	1049	B	55,120.00

**55/2H-003**

Flanged resilient seat NRS gate valve with wrench nut  
AISI 316 stainless steel stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2H-026640F1	450	CL. 150	644	B	26,186.00
55-500-2H-026640F1	500	CL. 150	699	B	27,552.00
55-600-2H-026640F1	600	CL. 150	959	B	35,987.00

**55/2H-004**

Flanged resilient seat NRS gate valve with wrench nut  
AISI 316 stainless steel stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close

Notice: PN16 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2H-016640F1	450	PN16	644	B	28,056.00
55-500-2H-016640F1	500	PN16	699	B	29,385.00
55-600-2H-016640F1	600	PN16	959	B	37,819.00

**55/23-003**

Flanged resilient seat NRS gate valve with wrench nut  
Alu-bronze stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-23-026640F1	450	CL. 150	644	B	28,056.00
55-500-23-026640F1	500	CL. 150	699	B	29,420.00
55-600-23-026640F1	600	CL. 150	959	B	37,857.00

**55/23-004**

Flanged resilient seat NRS gate valve with wrench nut  
Alu-bronze stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron  
EPDM rubber

AWWA C550

Clockwise to Close

Notice: PN16 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-23-016640F1	450	PN16	644	B	29,927.00
55-500-23-016640F1	500	PN16	699	B	31,255.00
55-600-23-016640F1	600	PN16	959	B	39,689.00

**55/2A-004**

Flanged resilient seat NRS gate valve with post indicator flange

AISI 316 stainless steel stem  
UL/FM approved

Face-to-face dimension according to ASME B16.10, table 1, class 125

Ductile Iron  
EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close

Notice: ANSI CL. 150 flange drilling



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2A-026640F1	450	CL. 150	648	B	26,559.00
55-500-2A-026640F1	500	CL. 150	703	B	27,925.00
55-600-2A-026640F1	600	CL. 150	963	B	36,361.00



**55/2A-011**

Flanged resilient seat NRS gate valve with post indicator flange  
 AISI 316 stainless steel stem  
 UL/FM approved  
 Face-to-face dimension according to ASME B16.10, table 1, class 125  
 Ductile Iron  
 EPDM rubber  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2A-016640F1	450	PN16	648	B	28,393.00
55-500-2A-016640F1	500	PN16	703	C	29,758.00
55-600-2A-016640F1	600	PN16	963	B	38,194.00

Notice: PN16 flange drilling

**55/2Q-003**

Flanged resilient seat NRS gate valve with post indicator flange  
 Alu-bronze stem  
 UL/FM approved  
 Face-to-face dimension according to ASME B16.10, table 1, class 125  
 Ductile Iron  
 EPDM rubber  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2Q-026640F1	450	CL. 150	648	B	28,429.00
55-500-2Q-026640F1	500	CL. 150	703	B	29,797.00
55-600-2Q-026640F1	600	CL. 150	963	B	38,231.00

Notice: ANSI CL. 150 flange drilling

**55/2Q-004**

Flanged resilient seat NRS gate valve with post indicator flange  
 Alu-bronze stem  
 UL/FM approved  
 Face-to-face dimension according to ASME B16.10, table 1, class 125  
 Ductile Iron  
 EPDM rubber  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
55-450-2Q-016640F1	450	PN16	648	B	30,262.00
55-500-2Q-016640F1	500	PN16	703	B	31,628.00
55-600-2Q-016640F1	600	PN16	963	B	40,065.00

Notice: PN16 flange drilling



**06/35-013**

Flanged gate valve with position indicator  
VdS approved  
Face-to-face dimension according to EN 558 Table 2 Basic Series 14  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
06-050-35-01420	50	PN10/16	13	B	625.00
06-065-35-01420	65	PN10/16	16	B	878.00
06-080-35-01420	80	PN10/16	20	A	878.00
06-100-35-01420	100	PN10/16	27	A	1,047.00
06-125-35-01420	125	PN10/16	36	B	1,769.00
06-150-35-01420	150	PN10/16	51	A	1,769.00
06-200-35-00620	200	PN10	71	A	3,117.00
06-200-35-01620	200	PN16	71	A	3,240.00
06-250-35-00620 <sup>(1)</sup>	250	PN10	108	B	5,049.00
06-250-35-01620 <sup>(1)</sup>	250	PN16	108	A	5,242.00
06-300-35-00420 <sup>(1)</sup>	300	PN10	116	B	3,971.00
06-300-35-01420 <sup>(1)</sup>	300	PN16	116	C	3,971.00
06-350-35-00620 <sup>(1)</sup>	350	PN10	203	C	16,140.00
06-350-35-01620 <sup>(1)</sup>	350	PN16	203	B	16,973.00
06-400-35-00620 <sup>(1)</sup>	400	PN10	240	C	20,539.00
06-400-35-01620 <sup>(1)</sup>	400	PN16	240	B	21,029.00

<sup>(1)</sup> Not approved to VdS**06/37-003**

Gate valve with grooved ends (AWWA C 606) and position indicator  
VdS approved  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
06-050-37-09620	50	PN16	10	B	658.00
06-080-37-09620	80	PN16	15	B	878.00
06-100-37-09620	100	PN16	22	A	1,047.00
06-150-37-09620	150	PN16	44	A	1,769.00
06-200-37-09620	200	PN16	61	A	3,240.00
06-250-37-09620 <sup>(1)</sup>	250	PN16	94	B	5,242.00
06-300-37-09620 <sup>(1)</sup>	300	PN16	126	C	7,577.00

<sup>(1)</sup> Not approved to VdS**06/37-004**

Gate valve with grooved ends (AWWA C 606), position indicator and external thread (EN10226 R) drilled bosses  
VdS approved  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
06-050-37-0942006 <sup>(1)</sup>	50	PN16	10	A	711.00
06-080-37-0942006 <sup>(1)</sup>	80	PN16	15	A	921.00
06-100-37-0942006 <sup>(1)</sup>	100	PN16	22	A	1,099.00
06-150-37-0942006 <sup>(2)</sup>	150	PN16	44	A	1,857.00
06-200-37-0942006 <sup>(2)</sup>	200	PN16	61	A	3,401.00

<sup>(1)</sup> 2 drilled bosses<sup>(2)</sup> 4 drilled bosses**36/00-116**

Gate valve with post indicator flange and PE pipe ends  
Ductile Iron  
EPDM rubber  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	D mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
36-110-00-163	100	110	PN16	30	C	2,075.00
36-180-00-163	150	180	PN16	58	C	4,320.00
36-200-00-163	200	200	PN16	88	C	6,308.00
36-250-00-163	250	250	PN16	118	C	10,098.00
36-315-00-163	300	315	PN16	189	C	17,087.00

**34/00-001**

Post indicator  
Telescopic  
Above ground  
UL/ULC Listed & FM approved  
Steel  
Fusion bonded epoxy coating  
in compliance with DIN 3476  
part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	T mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
34-050-00-00010010 <sup>(1)</sup>	50	505 - 1090	72	C	2,780.00
34-065-00-00010010 <sup>(1)</sup>	65	505 - 1090	72	C	3,483.00
34-080-00-00010010 <sup>(1)</sup>	80	505 - 1090	72	C	3,483.00
34-080-00-02010010 <sup>(1)</sup>	80	1625 - 2210	100	C	3,109.00
34-100-00-00010010	100	505 - 1090	72	C	3,580.00
34-100-00-01010010	100	1065 - 1660	86	C	3,456.00
34-100-00-02010010	100	1626 - 2210	100	C	3,186.00
34-150-00-00010010	150	505 - 1090	72	A	3,483.00
34-150-00-01010010	150	1065 - 1660	86	C	3,456.00
34-150-00-02010010	150	1625 - 2210	100	C	3,858.00
34-200-00-00010010	200	505 - 1090	72	C	3,580.00
34-200-00-01010010	200	1065 - 1660	86	B	3,547.00
34-200-00-02010010	200	1625 - 2210	100	C	3,858.00
34-250-00-00010010	250	505 - 1090	72	B	3,483.00
34-250-00-01010010	250	1065 - 1660	86	C	3,547.00
34-250-00-02010010	250	1625 - 2210	100	C	3,630.00
34-300-00-00010010	300	505 - 1090	72	C	3,600.00
34-300-00-01010010	300	1065 - 1660	86	B	3,664.00
34-300-00-02010010	300	1625 - 2210	100	C	3,750.00
34-350-00-00010010	350	505 - 1090	72	C	3,600.00
34-350-00-01010010	350	1065 - 1660	86	C	3,809.00
34-350-00-02010010	350	1625 - 2210	100	C	3,320.00
34-400-00-00010010	400	505 - 1090	72	C	3,808.00
34-400-00-01010010	400	1065 - 1660	86	B	4,348.00
34-400-00-02010010	400	1625 - 2210	100	C	4,875.00
34-450-00-00010010	450	505 - 1090	72	C	4,696.00
34-450-00-01010010	450	1065 - 1660	86	C	4,696.00
34-450-00-02010010	450	1625 - 2210	100	C	4,696.00
34-500-00-00010010	500	505 - 1090	72	C	4,696.00
34-500-00-01010010	500	1065 - 1660	86	C	4,696.00
34-500-00-02010010	500	1625 - 2210	100	C	4,870.00
34-600-00-00010010	600	505 - 1090	72	C	4,937.00
34-600-00-01010010	600	1065 - 1660	86	C	4,761.00
34-600-00-02010010	600	1625 - 2210	100	C	4,761.00

<sup>(1)</sup> Not UL/ULC and FM approved

**34/80-001**

Post indicator  
Wall type  
UL/ULC Listed & FM approved  
Ductile Iron  
Fusion bonded epoxy coating  
in compliance with DIN 3476  
part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Stem length mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
34-050-80-00010010 <sup>(1)</sup>	50	250	29	C	2,314.00
34-065-80-00010010 <sup>(1)</sup>	65	250	29	C	2,314.00
34-080-80-00010010 <sup>(1)</sup>	80	250	29	C	2,314.00
34-100-80-00010010	100	250	29	C	2,180.00
34-100-80-01010010	100	750	32	C	2,314.00
34-100-80-02010010	100	1250	34	C	2,314.00
34-150-80-00010010	150	250	29	C	2,260.00
34-150-80-01010010	150	750	32	C	2,399.00
34-150-80-02010010	150	1250	34	C	2,399.00
34-200-80-00010010	200	250	29	C	2,314.00
34-200-80-01010010	200	750	32	C	2,399.00
34-200-80-02010010	200	1250	34	C	2,399.00
34-250-80-00010010	250	250	29	C	2,180.00
34-250-80-01010010	250	750	32	C	2,314.00
34-250-80-02010010	250	1250	34	C	2,314.00
34-300-80-00010010	300	250	29	C	2,336.00
34-300-80-01010010	300	750	32	C	2,392.00
34-300-80-02010010	300	1250	34	C	2,392.00
34-350-80-01010010	350	750	32	C	2,328.00
34-350-80-02010010	350	1250	34	C	2,328.00
34-400-80-00000010 <sup>(2)</sup>	400	250	29	C	2,328.00
34-400-80-00020010 <sup>(2)</sup>	400	1250	34	C	2,328.00
34-400-80-01010010 <sup>(2)</sup>	400	750	32	C	2,328.00

<sup>(1)</sup> Not UL/ULC and FM approved

<sup>(2)</sup> Only UL/ULC listed

**04/04-002**

Telescopic extension spindle  
for gate valves  
Key adaptor #23-32,  
Stem adaptor #51  
L8 = Actual length  
Polyethylene (PE)



AVK ref. no.	DN/DN	F3 mm	L8 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
04-200-4-00020001	50 - 400	23 - 32	450 - 700	3.9	C	235.00
04-200-4-05020001	50 - 400	23 - 32	650 - 1100	3.9	C	262.00
04-200-4-10020001	50 - 400	23 - 32	1050 - 1750	3.9	A	325.00
04-200-4-15020001	50 - 400	23 - 32	1700 - 2900	3.9	C	474.00

**04/F-010**

Extension spindle for gate  
valves  
Fixed length  
Key adaptor #23-32  
Stem adaptor #51  
Polyethylene (PE)



AVK ref. no.	DN/DN	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
04-200-3-50020001	50 - 400	800	1.3	C	216.00
04-200-3-55020001	50 - 400	1000	1.3	C	247.00
04-200-3-60020001	50 - 400	1250	1.3	C	343.00
04-200-3-65020001	50 - 400	1500	1.3	C	343.00
04-200-3-75020001	50 - 400	2000	1.3	C	455.00
04-200-3-80020001	50 - 400	3000	1.3	C	699.00

**04/74-001**

Universal surface box for AVK  
telescopic extension spindles  
- Inscription "Fire"  
Ductile Iron  
AVK coating standard



AVK ref. no.	Theoretical weight/kg	Deliv. code	Gross Price EUR
04-003-74-200	11	B	305.00

**04/15-001**

T-key for gate valves  
Steel  
AVK coating standard



AVK ref. no.	Valve DN mm	F mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
04-050-2000 <sup>(1)</sup>	25 - 50	20	2.2	A	394.00
04-050-2100 <sup>(2)</sup>	40 - 600	28	2.7	A	407.00

<sup>(1)</sup> For service connection valve with stem cap or extension spindle with key adaptor # 14-22

<sup>(2)</sup> For gate valves with stem cap or extension spindle with key adaptor # 23-32

**04/24-001**

Stem cap for AWWA valves  
Ductile Iron  
AVK coating standard  
Clockwise to Close



AVK ref. no.	DN/DN	Theoretical weight/kg	Deliv. code	Gross Price EUR
04-100-11000	100 - 100	1.0	A	38.00
04-200-11000	150 - 150	1.1	A	39.00
04-250-11000	200 - 300	1.2	A	35.00

**08/A-011**

Handwheel assembled with  
bolt and washer  
Cast iron  
AVK coating standard



AVK ref. no.	DN/DN	D mm	F mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
08-050-01-200	40 - 50	180	14	1.5	A	60.00
08-100-01-200	100 - 100	280	19	3.5	C	124.00
08-150-02-200	125 - 150	320	19	4.5	C	157.00
08-200-01-200	200 - 200	320	24	6.0	B	242.00
08-250-02-200	250 - 300	500	27	11	B	265.00





**96/00-002**

Limit switch IN62 and BI 2 for AVK position indicator gate valves - UL listed



AVK ref. no.	Deliv. code	Gross Price EUR
96-400-00003 <sup>(1)</sup>	C	166.00
96-400-00011 <sup>(2)</sup>	A	162.00

- (1) IN62
- (2) "BI 2"

**96/00-001**

Micro switch with bracket for OS&Y valves  
Valve size DN 50-400  
UL listed / FM approved



AVK ref. no.	Deliv. code	Gross Price EUR
96-400-00001	A	863.00

**96/00-007**

Switch for post indicator series 34 and OS&Y gate valve series 145



AVK ref. no.	Deliv. code	Gross Price EUR
96-400-00002	A	826.00

**20/908-001**

Mounting kit for micro switch (NRS valves)  
Ductile Iron



AVK ref. no.	DN mm	Deliv. code	Gross Price EUR
20-065-90-800	50-65	A	116.00
20-080-90-800	80	A	116.00
20-100-90-800	100	A	116.00
20-125-90-800	125	A	116.00
20-150-90-800	150	A	116.00
20-200-90-800	200	A	116.00
20-250-90-800	250	A	116.00
20-300-90-800	300	A	123.00
20-400-90-800	350-400	A	40.00



# UL & FM APPROVED FIRE HYDRANTS

AVK offers dry barrel hydrants designed for areas with frost as well as wet barrel hydrants for non-frost areas and a wide range of accessories such as traffic repair kits, nozzles and monitors.



## Dry barrel fire hydrants

AVK dry barrel fire hydrants meet or exceed AWWA C-502 and are rated for a working pressure of 17.2 bar (250 PSI). They are designed for high performance, easy repair and minimum end user costs for labor and inventory. The breakable flange and stem rod coupling prevent leaking and enable easy

repair at traffic knock down. The fire hydrant's main valve has a ductile iron core which is fully encapsulated in EPDM rubber. The nozzle section can be rotated 360 degrees and the upper section of the fire hydrant is repairable under pressure.

## Wet barrel fire hydrants

AVK wet barrel fire hydrants meet or exceed the

requirements of AWWA C503 and are rated for a working pressure of 13.7 bar (200 PSI). The shut-off device is directly at the outflow nozzle for hose or pumper connection which means that the fire hydrant is constantly filled with water and thus under pressure. The fire hydrant is mounted directly on the water main, giving full water pressure instantaneously when needed.

### 27/EI-010

Dry barrel fire hydrant  
Modern type to AWWA C502  
UL listed & FM approved  
2 x 2.5" NST hose nozzles +  
1 x 4" NST pumper nozzle  
Ductile Iron  
EPDM fire hydrant main valve  
Fusion bonded epoxy coating  
in compliance with DIN  
3476, GSK approved, with  
polyester top coating.  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Bury depth mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-EI-U0204-00008-CQ	150	ANSI B16.42	914	154	C	13,990.00
27-EI-U0205-00008-CQ	150	ANSI B16.42	1067	163	C	14,480.00
27-EI-U0206-00008-CQ	150	ANSI B16.42	1219	172	C	15,899.00
27-EI-U0207-00008-CQ	150	ANSI B16.42	1372	181	C	15,873.00
27-EI-U0208-00008-CQ	150	ANSI B16.1B	1524	190	C	16,607.00
27-EI-U0209-00008-CQ	150	ANSI B16.42	1677	199	C	18,241.00
27-EI-U0210-00008-CQ	150	ANSI B16.42	1829	208	C	18,378.00

### 27/JA-100

Dry barrel fire hydrant  
Modern type to AWWA C502  
UL/ULC listed - FM approved  
Lateral elbow inlet  
2 x 2.5" NST hose nozzles +  
1 x 4" NST pumper nozzle  
Ductile Iron  
EPDM fire hydrant main valve  
Fusion bonded epoxy coating  
in compliance with DIN  
3476, GSK approved, with  
polyester top coating.  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Bury depth mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-JA-00204-0000J-CP0007	150	ANSI B16.42	914	153	C	11,081.00
27-JA-00205-0000J-CP0007	150	ANSI B16.42	1067	161	C	11,210.00
27-JA-00206-0000J-CP0007	150	ANSI B16.42	1219	169	C	11,310.00
27-JA-00207-0000J-CP0007	150	ANSI B16.42	1372	177	C	11,628.00
27-JA-00208-0000J-CP0007	150	ANSI B16.42	1524	194	C	12,576.00
27-JA-00209-0000J-CP0007	150	ANSI B16.42	1676	202	C	13,494.00
27-JA-00210-0000J-CP0007	150	ANSI B16.42	1829	208	C	13,752.00
27-JA-00211-0000J-CP0007	150	ANSI B16.42	1981	219	C	14,076.00
27-JA-00212-0000J-CP0007	150	ANSI B16.42	2134	224	C	14,292.00

# Dry barrel fire hydrants, UL & FM approved



## 27/JA-110

Dry barrel fire hydrant  
Modern type to AWWA C502  
Straight inlet  
2 x 2.5" NST hose nozzles +  
1 x 4" NST pumper nozzle  
Ductile Iron  
EPDM fire hydrant main valve  
Fusion bonded epoxy coating  
in compliance with DIN  
3476, GSK approved, with  
polyester top coating.  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Bury depth mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-JA-07205-0000J-CP0007	150	ANSI B16.42	1022	157	C	11,232.00

## 27/RQ-001

Dry barrel fire hydrant  
Modern type to AWWA C502  
Stem rod AISI 316  
2 x 2.5" NST hose nozzles +  
1 x 4" NST pumper nozzle  
Ductile Iron  
EPDM fire hydrant main valve  
Fusion bonded epoxy coating  
in compliance with DIN  
3476, GSK approved, with  
polyester top coating.  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Bury depth mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-RQ-I0206-0000N-DC0076	150	ANSI B16.42	1219	190	C	15,732.00

## 27/RN-100

Dry barrel fire hydrant  
Modern type to AWWA C502  
Upper/lower stem & bolts in  
AISI 316  
UL/ULC listed, FM approved  
2 x 2.5" NST hose nozzles +  
1 x 4" NST pumper nozzle  
Ductile Iron  
EPDM fire hydrant main valve  
Fusion bonded epoxy coating  
in compliance with DIN  
3476, GSK approved, with  
polyester top coating.  
Clockwise to Close



AVK ref. no.	DN mm	Flange drilling	Bury depth mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-RN-I0206-0000J-DC0006	150	ANSI B16.42	1219	167	A	12,312.00
27-RN-I0207-0000J-DC0006	150	ANSI B16.42	1372	178	C	12,528.00
27-RN-I0208-0000J-DC0006	150	ANSI B16.42	1524	194	C	13,392.00
27-RN-I0209-0000J-DC0006	150	ANSI B16.42	1676	202	C	13,644.00

## 27/70-001

Extension kit for dry barrel  
hydrants



AVK ref. no.	L Inch	L mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-150-70-000	6"	152,4	9.0	C	1,649.00
27-150-70-100	12"	304,8	18	C	2,287.00
27-150-70-200	18"	457,2	27	C	2,749.00
27-150-70-300	24"	609,6	36	C	3,786.00
27-150-70-400	30"	762,0	45	C	4,114.00
27-150-70-500	36"	914,4	54	C	4,647.00

## 27/00-002

6" base with PE 100 PN 16  
connection for dry barrel fire  
hydrants



Ductile Iron  
AVK coating standard

AVK ref. no.	DN/Ø mm	Deliv. code	Gross Price EUR
27-150-690080	150 - 180	C	1,416.00

**27/D1-001**

Monitor elbow for dry barrel  
fire hydrants  
Ductile Iron  
AVK coating standard



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-080-89-11	80	PN16	35	C	1,620.00
27-080-89-12	80	ANSI CL150	35	C	1,620.00
27-100-89-11	100	PN16	40	C	1,742.00
27-100-89-12	100	ANSI CL150	40	A	1,774.00

**27/00-004**

Traffic repair kit for dry barrel  
fire hydrants  
Ductile Iron  
AVK coating standard



AVK ref. no.	DN mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-150-75-1001 <sup>(1)</sup>	150	5.0	C	2,934.00
27-150-75-2001 <sup>(2)</sup>	150	5.0	C	3,609.00

- (1) Bolts & nuts in galvanized steel grade 8.8  
(2) Bolts & nuts in stainless steel

**27/C4-005**

Operating and seat wrench  
for dry barrel fire hydrants  
Ductile Iron  
AVK coating standard



AVK ref. no.	DN mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
27-150-30-1001 <sup>(1)</sup>	150	2.7	C	1,341.00
27-150-30-4001 <sup>(2)</sup>	150	2.3	A	153.00

- (1) Seat wrench  
(2) Operating wrench

**96/00-005**

Nozzles for wet barrel and dry  
barrel hydrants



AVK ref. no.	Deliv. code	Gross Price EUR
96-450-00096 <sup>(1)</sup>	C	14,935.00
96-450-00097 <sup>(2)</sup>	C	7,570.00
96-450-00098 <sup>(3)</sup>	C	1,332.00

- (1) Style 825-BC  
(2) Style 889-BC  
(3) Drum pick-up kit for style 889 nozzle

**96/00-006**

Compact monitor for wet  
barrel and dry barrel hydrants



AVK ref. no.	Deliv. code	Gross Price EUR
96-450-00093 <sup>(1)</sup>	C	9,387.00
96-450-00094 <sup>(2)</sup>	C	13,594.00
96-450-00095 <sup>(3)</sup>	C	18,287.00

- (1) Style 649 monitor excl. nozzle  
(2) Incl. Style 825-BC nozzle  
(3) Incl. Style 889-BC self educting nozzle plus drum pick up kit





**24/10-001**

Wet barrel hydrant with  
2 x 2 1/2" NST hose outlets,  
1 x 4" or 1 x 4 1/2" NST  
pumper outlet  
(optionally 5" storz outlet)  
UL/FM approved  
Ductile Iron  
EPDM rubber  
Epoxy coating / UV-resistant  
polyester  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
24-150-10-00000001	150	CL150	46	C	12,496.00

**24/70-001**

Wet barrel hydrant with  
1x2 1/2" + 1x4 1/2" outlets  
UL/FM approved  
Ductile Iron  
EPDM rubber  
Epoxy coating / UV-resistant  
polyester  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
24-150-70-00000001	150	PN16	62	C	5,164.00
24-150-70-00002901 <sup>(1)</sup>	150	PN16	62	C	5,164.00

(1) 4" BS 336 thread outlet

**24/96-001**

Wet barrel hydrant with  
2x2 1/2" + 1x4 1/2" outlets  
UL/FM approved  
Ductile Iron  
EPDM rubber  
Epoxy coating / UV-resistant  
polyester  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
24-150-96-00000001	150	PN16	65	C	11,971.00
24-150-96-00002901 <sup>(1)</sup>	150	AWWA C503	186	C	12,493.00

(1) 4" BS 336 thread outlet

**24/80-001**

Breakable flange kit for wet  
barrel hydrants  
Ductile Iron  
EPDM rubber  
AWWA C550



AVK ref. no.	DN mm	Deliv. code	Gross Price EUR
24-150-AB-3297	150	C	3,751.00

**75/20-023**

Centric butterfly valve with fixed liner  
 Double flanged short  
 FM approved  
 Duplex disc  
 Face-to-face dimension according to EN 558 table 4 basic series 13  
 Ductile Iron  
 NBR rubber  
 Epoxy coating



AVK ref. no.	DN mm	Flange drilling	Theoretical weight/kg	Deliv. code	Gross Price EUR
75-0050-20-213002600204 <sup>(1)</sup>	50	PN16	8.0	C	3,769.00
75-0065-20-213002600204 <sup>(1)</sup>	65	PN16	9.0	C	3,919.00
75-0080-20-213002600204 <sup>(1)</sup>	80	PN16	11	C	4,019.00
75-0100-20-213002600204 <sup>(1)</sup>	100	PN16	13	C	4,531.00
75-0125-20-213002600204 <sup>(1)</sup>	125	PN16	17	C	4,833.00
75-0150-20-213002600204 <sup>(1)</sup>	150	PN16	23	C	5,534.00
75-0200-20-213001300204 <sup>(1)</sup>	200	PN10	32	C	6,585.00
75-0200-20-213002600204 <sup>(1)</sup>	200	PN16	32	C	10,172.00
75-0250-20-213001300204 <sup>(1)</sup>	250	PN10	50	C	11,751.00
75-0250-20-213002600204 <sup>(1)</sup>	250	PN16	50	C	14,691.00
75-0300-20-213001300204 <sup>(1)</sup>	300	PN10	65	C	25,014.00
75-0300-20-213002600204 <sup>(1)</sup>	300	PN16	65	C	24,512.00

<sup>(1)</sup> Disc material in duplex

**75/31-023**

Centric butterfly valve with fixed liner  
 Semi lug  
 FM approved  
 Stainless steel disc  
 Face-to-face dimension according to EN 558 table 5 basic series 20  
 Ductile Iron  
 NBR rubber  
 Epoxy coating



AVK ref. no.	DN mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
75-0050-30-214202600204	50	PN16	2.8	C	871.00
75-0065-30-214202600204	65	PN16	3.6	C	903.00
75-0080-30-214202600204	80	PN16	3.9	C	903.00
75-0100-30-214202600204	100	PN16	5.1	C	1,013.00
75-0125-30-214202600204	125	PN16	7.0	C	1,197.00
75-0150-30-214202600204	150	PN16	9.5	C	1,573.00
75-0200-30-214202600204	200	PN16	14	C	2,289.00
75-0250-30-214201300204	250	PN10	24	C	3,769.00
75-0250-30-214202600204	250	PN16	24	C	3,769.00
75-0300-30-214201300204	300	PN10	36	C	4,743.00
75-0300-30-214202600204	300	PN16	36	C	4,743.00



**5190/00-001**

Flanged swing check valve  
PN10/16  
UL/ULC approved  
Ductile Iron



AVK ref. no.	DN mm	Theoretical weight/kg	Product PN Class	Deliv. code	Gross Price EUR
5190-050-00-100	50	6.3	300 PSI	C	295.00
5190-065-00-100	65	9.2	300 PSI	C	442.00
5190-080-00-100	80	12	300 PSI	C	505.00
5190-100-00-100	100	19	300 PSI	C	722.00
5190-125-00-100	125	26	300 PSI	C	1,034.00
5190-150-00-100	150	32	300 PSI	C	1,277.00
5190-200-00-000	200	54	300 PSI	C	1,812.00
5190-200-00-100	200	54	300 PSI	C	1,812.00

**5190/00-002**

Flanged swing check valve  
ANSI class 150  
UL/ULC approved  
Ductile Iron



AVK ref. no.	DN mm	Theoretical weight/kg	Product PN Class	Deliv. code	Gross Price EUR
5190-050-00-200	50	6.3	300 PSI	C	306.00
5190-065-00-200	65	9.2	300 PSI	C	442.00
5190-080-00-200	80	12	300 PSI	C	524.00
5190-100-00-200	100	19	300 PSI	C	749.00
5190-125-00-200	125	26	300 PSI	C	1,034.00
5190-150-00-200	150	32	300 PSI	C	1,325.00
5190-200-00-200	200	54	300 PSI	C	1,812.00

**5190/10-001**

IPS grooved end swing check  
valve  
UL/ULC & FM approved  
Ductile Iron



AVK ref. no.	DN mm	Dd mm	Theoretical weight/kg	Product PN Class	Deliv. code	Gross Price EUR
5190-050-10-900	50	60,3	2.5	300 PSI	C	238.00
5190-065-10-900	65	73,0	4.0	300 PSI	C	259.00
5190-076-10-900	65	76,1	4.0	300 PSI	C	259.00
5190-080-10-900	80	88,9	6.0	300 PSI	C	292.00
5190-100-10-900	100	114,3	9.0	300 PSI	C	369.00
5190-125-10-900	125	141,3	15	300 PSI	C	617.00
5190-139-10-900	125	139,7	15	300 PSI	C	617.00
5190-200-10-900	200	219,1	35	300 PSI	C	1,082.00

**5190/20-001**

Grooved end riser (shotgun)  
swing check valve  
UL/ULC/FM approved  
Ductile Iron



AVK ref. no.	DN mm	Dd mm	Theoretical weight/kg	Product PN Class	Deliv. code	Gross Price EUR
5190-050-20-900	50	60,3	2.5	300 PSI	C	266.00
5190-065-20-900	65	73,0	4.0	300 PSI	C	288.00
5190-076-20-900	65	76,1	4.0	300 PSI	C	288.00
5190-080-20-900	80	88,9	6.0	300 PSI	C	309.00
5190-100-20-900	100	114,3	9.0	300 PSI	C	387.00
5190-125-20-900	125	141,3	15	300 PSI	C	664.00
5190-139-20-900	125	139,7	15	300 PSI	C	664.00
5190-150-20-900	150	168,3	19	300 PSI	C	763.00
5190-200-20-900	200	219,1	35	300 PSI	C	1,131.00







# FIRE HYDRANTS USED IN WATER SUPPLY

AVK offers a wide range of fire hydrants for above and underground installation and in a wealth of variants to meet our customers' needs.

Our above-ground fire hydrants offer a high level of safety due to a predetermined breaking point, protected signal colouring, easy maintenance and optimal sealing. We offer hydrants with manual or automatic drainage and single shut-off or additional ball shut-off. Our range also includes fire hydrants with built-in battery-operated IoT sensors for remote monitoring making it easier to distinguish between real water loss and necessary use of water.

Our range of underground fire hydrants includes single shut-off fire hydrants with one-piece housing, double shut-off fire hydrants with two-piece housing, free flow fire hydrants and fire hydrants with backflow protection.



## 84/05-003

Above-ground fire hydrant model P7 with 2 x hose storz B  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating to DIN 3476 part 1 and EN 14901 externally, enamel to DEV internally  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-05-211010	80	PN16	1000	C	8,455.00
84-080-05-311010	80	PN16	1250	C	8,687.00
84-080-05-411010	80	PN16	1500	C	8,942.00
84-100-05-211010	100	PN16	1000	C	9,021.00
84-100-05-311010	100	PN16	1250	C	9,301.00
84-100-05-411010	100	PN16	1500	C	9,810.00

## 84/16-003

Above-ground fire hydrant model P7 with 2 x hose storz B / 1 x pumper A-storz outlet  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating to DIN 3476 part 1 and EN 14901 externally, enamel to DEV internally  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-100-16-211010	100	PN16	1000	C	9,670.00
84-100-16-311010	100	PN16	1250	C	10,081.00
84-100-16-411010	100	PN16	1500	C	10,286.00

## 84/25-003

Above-ground fire hydrant with drop-down cover  
Model P7 - Type C  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating to DIN 3476 part 1 and EN 14901 externally, enamel to DEV internally  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-100-25-211013 <sup>(1)</sup>	100	PN16	1000	C	20,380.00
84-100-25-211014	100	PN16	1000	C	20,380.00
84-100-25-311013 <sup>(1)</sup>	100	PN16	1250	C	21,078.00
84-100-25-311014	100	PN16	1250	C	21,078.00
84-100-25-411013 <sup>(1)</sup>	100	PN16	1500	C	21,566.00
84-100-25-411014	100	PN16	1500	C	21,566.00

<sup>(1)</sup> White/red/white reflection tape at drop down cover

**84/45-003**

Above-ground fire hydrant Model P7 "Nostalgia" with 2 x hose storz B  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating to DIN 3476 part 1 and EN 14901 externally, enamel to DEV internally  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-45-211011	80	PN16	1000	C	11,451.00
84-080-45-211062 <sup>(1)</sup>	80	PN16	1000	C	12,888.00
84-080-45-311011	80	PN16	1250	C	12,134.00
84-080-45-311062 <sup>(1)</sup>	80	PN16	1250	C	13,622.00
84-080-45-411011	80	PN16	1500	C	12,005.00
84-080-45-411062 <sup>(1)</sup>	80	PN16	1500	C	13,442.00

<sup>(1)</sup> Hydrant body red enamelled outside

**84/51-003**

Above-ground fire hydrant model P7 "Nostalgia" with 2 x hose storz B / 1 x pumper nozzle A outlet  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating to DIN 3476 part 1 and EN 14901 externally, enamel to DEV internally  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
84-100-51-211011	100	PN16	1000	93	C	10,440.00
84-100-51-211062 <sup>(1)</sup>	100	PN16	1000	93	C	11,736.00
84-100-51-311011	100	PN16	1250	98	C	10,908.00
84-100-51-311062 <sup>(1)</sup>	100	PN16	1250	98	C	12,060.00
84-100-51-411062 <sup>(1)</sup>	100	PN16	1500	105	C	11,304.00

<sup>(1)</sup> Hydrant body red enamelled outside

**84/72-003**

Above-ground fire hydrant model P7 "Niro" with 2 x hose storz B,  
Upper barrel of stainless steel  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-72-211011	80	PN16	1000	C	14,087.00
84-080-72-311011	80	PN16	1250	C	14,390.00
84-080-72-411011	80	PN16	1500	C	14,693.00
84-100-72-211011	100	PN16	1000	C	16,051.00
84-100-72-311011	100	PN16	1250	C	16,884.00
84-100-72-411011	100	PN16	1500	C	17,712.00

**84/82-003**

Above-ground fire hydrant model P7 "Niro" with 2 x hose storz B / 1 x pumper storz A outlet,  
Upper barrel of stainless steel  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-100-82-211011	100	PN16	1000	C	18,361.00
84-100-82-311011	100	PN16	1250	C	19,355.00
84-100-82-411011	100	PN16	1500	C	18,968.00

**84/90-001**

Above-ground fire hydrant model N7 without traffic break-away design (Type A)  
Single shut-off,  
Upper barrel of stainless steel  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-90-21101010 <sup>(1)</sup>	80	PN16	1000	C	3,690.00
84-080-90-21101015 <sup>(2)</sup>	80	PN16	1000	C	4,255.00
84-080-90-31101015 <sup>(2)</sup>	80	PN16	1250	C	4,459.00
84-080-90-41101015 <sup>(2)</sup>	80	PN16	1500	C	4,454.00
84-100-90-21101010 <sup>(1)</sup>	100	PN16	1000	C	4,688.00
84-100-90-21101012 <sup>(3)</sup>	100	PN16	1000	C	5,069.00
84-100-90-31101010 <sup>(1)</sup>	100	PN16	1250	C	4,734.00
84-100-90-31101012 <sup>(3)</sup>	100	PN16	1250	C	5,329.00
84-100-90-41101010 <sup>(1)</sup>	100	PN16	1500	C	4,879.00
84-100-90-41101012 <sup>(3)</sup>	100	PN16	1500	C	5,943.00

<sup>(1)</sup> 2 x coupling B

<sup>(2)</sup> 2 x coupling C, 1 x coupling B

<sup>(3)</sup> 2 x coupling B, 1 x coupling A



**84/91-001**

Above-ground fire hydrant model N7 with traffic break-away design (Type C)  
Single shut-off  
Upper barrel of stainless steel  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-91-21101015 <sup>(1)</sup>	80	PN16	1000	C	4,575.00
84-080-91-31101015 <sup>(1)</sup>	80	PN16	1250	C	4,786.00
84-080-91-41101010 <sup>(2)</sup>	80	PN16	1500	C	4,356.00
84-080-91-41101015 <sup>(1)</sup>	80	PN16	1500	C	4,609.00
84-100-91-21101010 <sup>(2)</sup>	100	PN16	1000	C	4,997.00
84-100-91-21101012 <sup>(3)</sup>	100	PN16	1000	C	5,846.00
84-100-91-31101010 <sup>(2)</sup>	100	PN16	1250	C	6,502.00
84-100-91-31101012 <sup>(3)</sup>	100	PN16	1250	C	5,978.00
84-100-91-41101010 <sup>(2)</sup>	100	PN16	1500	C	5,369.00

- <sup>(1)</sup> 2 x coupling C, 1 x coupling B
- <sup>(2)</sup> 2 x coupling B
- <sup>(3)</sup> 2 x coupling B, 1 x coupling A

**84/92-001**

Above-ground fire hydrant model N7 without traffic break-away design (Type A)  
Double shut-off,  
Upper barrel of stainless steel  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-92-21101015 <sup>(1)</sup>	80	PN16	1000	C	4,502.00
84-080-92-31101010 <sup>(2)</sup>	80	PN16	1250	C	4,290.00
84-080-92-31101015 <sup>(1)</sup>	80	PN16	1250	C	4,545.00
84-080-92-41101010 <sup>(2)</sup>	80	PN16	1500	C	4,288.00
84-080-92-41101015 <sup>(1)</sup>	80	PN16	1500	C	4,541.00
84-100-92-31101010 <sup>(2)</sup>	100	PN16	1250	C	5,682.00
84-100-92-31101012 <sup>(3)</sup>	100	PN16	1250	C	8,505.00
84-100-92-41101010 <sup>(2)</sup>	100	PN16	1500	C	5,847.00

- <sup>(1)</sup> 2 x coupling C, 1 x coupling B
- <sup>(2)</sup> 2 x coupling B
- <sup>(3)</sup> 2 x coupling B, 1 x coupling A

**84/93-001**

Above-ground fire hydrant model N7 with traffic break-away design (Type C)  
Double shut-off,  
Upper barrel of stainless steel  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-93-21101010 <sup>(1)</sup>	80	PN16	1000	C	5,028.00
84-080-93-21101011 <sup>(2)</sup>	80	PN16	1000	C	5,274.00
84-080-93-21101015 <sup>(3)</sup>	80	PN16	1000	C	5,138.00
84-080-93-31101010 <sup>(1)</sup>	80	PN16	1250	C	5,267.00
84-080-93-31101015 <sup>(3)</sup>	80	PN16	1250	C	5,371.00
84-080-93-41101010 <sup>(1)</sup>	80	PN16	1500	C	5,263.00
84-080-93-41101015 <sup>(3)</sup>	80	PN16	1500	C	5,366.00
84-100-93-21101010 <sup>(1)</sup>	100	PN16	1000	C	5,421.00
84-100-93-31101010 <sup>(1)</sup>	100	PN16	1250	C	5,438.00
84-100-93-31101012 <sup>(4)</sup>	100	PN16	1250	C	7,016.00
84-100-93-41101010 <sup>(1)</sup>	100	PN16	1500	C	5,592.00
84-100-93-41101012 <sup>(4)</sup>	100	PN16	1500	C	7,224.00

- <sup>(1)</sup> 2 x coupling B
- <sup>(2)</sup> 2 x coupling B, 1 x coupling C
- <sup>(3)</sup> 2 x coupling C, 1 x coupling B
- <sup>(4)</sup> 2 x coupling B, 1 x coupling A

**84/93-003**

Above-ground fire hydrant model N7 with traffic break-away design (Type C)  
Double shut-off  
Ductile Iron  
Polyurethane vulcanized plug  
Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Deliv. code	Gross Price EUR
84-080-93-2110101004	80	PN16	1000	C	4,994.00
84-080-93-3110101004	80	PN16	1250	C	5,123.00
84-080-93-4110101004	80	PN16	1500	C	5,078.00



**84/B-001**

Collision repair kit for P7 "Nostalgia" above-ground fire hydrants  
Incl. O-ring/bolts/titan bushings and plugs



AVK ref. no.	DN mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
140572	80	0.3	C	1,066.00
140573	100	0.3	C	1,066.00

**3002/002-001**

VIDI Cap for storz B  
Smart hydrant cap



Transmits position information (open or closed) via radio communication  
CE-approved  
RED-approved  
Battery life: 10 years  
IP Class 68

AVK ref. no.	Communi- cation	Key	Theoretical weight/kg	Deliv. code	Gross Price EUR
3002-002-003-000	LORA	TRIANGLE	0.9	C	795.00
3002-002-004-000	LORA	OVAL	0.9	C	1,012.00
3002-002-008-000	NB-IOT	TRIANGLE	0.9	C	795.00
3002-002-009-000	NB-IOT	OVAL	0.9	C	795.00





## 09/20-001

Above-ground fire hydrant  
1 x 3" B Storz hose nozzles  
Type B  
Aluminum  
Fusion bonded epoxy coating  
in compliance with DIN 3476  
part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Range mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
09-080-20-1021 <sup>(1)</sup>	80	1050 - 1550	PN10	60	C	5,272.00
09-080-20-3021 <sup>(2)</sup>	80	1050 - 1550	PN10	60	C	5,752.00

(1) Automatic drainage  
(2) Manual drainage

## 09/30-001

Above-ground fire hydrant  
1 x 3" B Storz hose nozzles  
Type B  
Ductile Iron  
Fusion bonded epoxy coating  
in compliance with DIN 3476  
part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Range mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
09-080-30-1027 <sup>(1)</sup>	80	1050 - 1550	PN10	75	A	5,964.00
09-080-30-102710 <sup>(2)</sup>	80	1050 - 1550	PN10	75	B	6,423.00
09-080-30-3027 <sup>(3)</sup>	80	1050 - 1550	PN10	75	B	6,423.00
09-080-30-302710 <sup>(4)</sup>	80	1050 - 1550	PN10	75	A	6,879.00

(1) Automatic drainage  
(2) Automatic drainage and with additional ball shut off system  
(3) Manual drainage  
(4) Manual drainage and with additional ball shut off system

## 09/50-001

Above-ground fire hydrant  
1 X 4" / DN 100 Storz hose  
nozzle  
Type A  
Aluminum  
Fusion bonded epoxy coating  
in compliance with DIN 3476  
part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Range mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
09-100-50-20 <sup>(1)</sup>	100	1050 - 1550	PN10	83	B	9,240.00
09-100-50-30 <sup>(2)</sup>	100	1050 - 1550	PN10	83	B	9,573.00

(1) Automatic drainage  
(2) Manual drainage

## 09/90-001

Above-ground fire hydrant  
2 x 3" B Storz hose nozzles  
Automatic drainage  
Aluminum  
Fusion bonded epoxy coating  
in compliance with DIN 3476  
part 1 and EN 14901  
Clockwise to Close



AVK ref. no.	DN mm	Range mm	Product PN Class	Theoretical weight/kg	Deliv. code	Gross Price EUR
09-100-90-201	100	800 - 1300	PN10	55	A	7,521.00

**29/40-003**

Underground fire hydrant to EN 1074-6

Ductile Iron

EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Connection	Theoretical weight/kg	Deliv. code	Gross Price EUR
29-100-40-0101 <sup>(1)</sup>	100	PN16	Bayonet	30	A	1,203.00
29-100-40-0102 <sup>(2)</sup>	100	PN16	3" Storz	30	A	2,510.00
29-100-40-0103 <sup>(3)</sup>	100	PN16	3" NOR	30	A	3,412.00
29-100-40-0104 <sup>(4)</sup>	100	PN16	4" Storz	30	A	3,457.00
29-100-40-0111 <sup>(5)</sup>	100	PN16	Bayonet - aut. drain	30	B	1,289.00
29-100-40-0112 <sup>(6)</sup>	100	PN16	3" Storz - aut. drain	30	B	2,596.00
29-100-40-0113 <sup>(7)</sup>	100	PN16	3" NOR - aut. drain	30	B	3,476.00
29-100-40-0114 <sup>(8)</sup>	100	PN16	4" Storz - aut. drain	30	B	3,543.00

<sup>(1)</sup> With bayonet coupling<sup>(2)</sup> With 3" storz coupling<sup>(3)</sup> With 3" NOR coupling<sup>(4)</sup> With 4" storz coupling<sup>(5)</sup> With bayonet coupling and automatic drain<sup>(6)</sup> With 3" storz coupling and automatic drain<sup>(7)</sup> With 3" NOR coupling and automatic drain<sup>(8)</sup> With 4" storz coupling and automatic drain**29/50-01**

Underground fire hydrant to EN 1074-6

Ductile Iron

EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	H3 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
29-100-50-011510	100	PN16	865	22	C	3,630.00
29-100-50-011511	100	PN16	1115	22	C	3,797.00
29-100-50-011512	100	PN16	1365	22	C	3,981.00
29-100-50-011513	100	PN16	1615	22	C	4,163.00
29-100-50-011514	100	PN16	1865	22	C	4,500.00
29-100-50-011515	100	PN16	1975	22	C	4,834.00
29-100-50-011516	100	PN16	2115	22	C	5,038.00
29-100-50-011517	100	PN16	2365	22	C	5,240.00

**29/78-007**

Free flow underground fire hydrant

Ductile Iron

EPDM rubber

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901

Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
29-080-78-1101500096	80	PN16	750	34	C	5,215.00
29-080-78-2101500096	80	PN16	1000	35	C	5,368.00
29-080-78-3101500096	80	PN16	1250	36	C	5,520.00
29-080-78-4101500096	80	PN16	1500	37	C	5,675.00

**35/31-004**

Underground fire hydrant to EN 14339

Single shut off

Ductile Iron

Polyurethane vulcanized plug

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-080-31-11015 <sup>(1)</sup>	80	PN16	750	21	C	2,145.00
35-080-31-11020 <sup>(2)</sup>	80	PN16	750	21	C	2,086.00
35-080-31-21015 <sup>(1)</sup>	80	PN16	1000	25	C	2,334.00
35-080-31-21020 <sup>(2)</sup>	80	PN16	1000	25	C	2,284.00
35-080-31-31015 <sup>(1)</sup>	80	PN16	1250	29	C	2,584.00
35-080-31-31020 <sup>(2)</sup>	80	PN16	1250	29	C	2,634.00
35-080-31-41015 <sup>(1)</sup>	80	PN16	1500	33	C	3,123.00
35-080-31-41020 <sup>(2)</sup>	80	PN16	1500	33	C	3,000.00

<sup>(1)</sup> Cover with chain<sup>(2)</sup> Bayonet coupling and self-closing cover**35/32-003**

Underground fire hydrant w. self closing cover to EN 14339 - Single shut off

Seat stainless steel

Ductile Iron

Polyurethane vulcanized plug

Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved

Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-080-32-11020	80	PN16	750	21	C	2,149.00
35-080-32-21020	80	PN16	1000	25	C	2,267.00
35-080-32-31020	80	PN16	1250	29	C	2,571.00
35-080-32-41020	80	PN16	1500	33	C	3,099.00

# Underground fire hydrants



## 35/57-001

Underground fire hydrant to EN 14339 and KIWA BRL-K614-04  
 Ductile Iron  
 Polyurethane vulcanized plug  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-080-57-11024	80	PN16	750	24	C	1,692.00
35-080-57-21024	80	PN16	1000	27	C	2,110.00

## 35/72-003

Underground fire hydrant to GOST 53961-2010  
 Ductile Iron  
 Polyurethane vulcanized plug  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	H3 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-125-72-081000	125	PN16	1000	62	C	4,836.00
35-125-72-091000	125	PN16	1250	67	C	5,015.00
35-125-72-101000	125	PN16	1500	72	C	5,080.00
35-125-72-111000	125	PN16	1750	83	C	5,871.00
35-125-72-121000	125	PN16	2000	90	C	8,503.00
35-125-72-131000	125	PN16	2250	97	C	6,287.00
35-125-72-141000	125	PN16	2500	105	C	6,537.00
35-125-72-151000	125	PN16	2750	116	C	7,047.00
35-125-72-161000	125	PN16	3000	124	C	7,290.00
35-125-72-171000	125	PN16	3250	130	C	7,711.00
35-125-72-181000	125	PN16	3500	139	C	7,494.00
35-125-72-191000	125	PN16	3750	149	C	4,836.00
35-125-72-201000	125	PN16	4000	157	C	8,316.00

## 35/72-005

Underground fire hydrant to GOST 53961-2010  
 Ductile Iron  
 Polyurethane vulcanized plug  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	H3 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-125-72-082000	100	PN16	1000	53	A	4,752.00
35-125-72-092000	100	PN16	1250	58	A	4,752.00
35-125-72-102000	100	PN16	1500	63	A	4,752.00
35-125-72-112000	100	PN16	1750	74	A	5,504.00
35-125-72-122000	100	PN16	2000	81	C	5,629.00
35-125-72-132000	100	PN16	2250	88	C	6,385.00
35-125-72-162000	100	PN16	3000	115	C	7,477.00
35-125-72-172000	100	PN16	3250	121	C	7,508.00
35-125-72-182000	100	PN16	3500	130	C	7,691.00
35-125-72-192000	100	PN16	3750	140	C	8,589.00
35-125-72-202000	100	PN16	4000	148	C	8,550.00

## 35/81-010

Underground fire hydrant to EN 14339  
 Double shut off  
 Ductile Iron  
 Polyurethane vulcanized plug  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-080-81-11015 <sup>(1)</sup>	80	PN16	800	27	C	2,586.00
35-080-81-11020 <sup>(2)</sup>	80	PN16	800	27	C	2,494.00
35-080-81-21015 <sup>(1)</sup>	80	PN16	1000	31	C	2,788.00
35-080-81-21020 <sup>(2)</sup>	80	PN16	1000	31	C	2,788.00
35-080-81-31015 <sup>(1)</sup>	80	PN16	1250	34	C	3,056.00
35-080-81-31020 <sup>(2)</sup>	80	PN16	1250	34	C	3,056.00
35-080-81-41015 <sup>(1)</sup>	80	PN16	1500	38	C	3,424.00
35-080-81-41020 <sup>(2)</sup>	80	PN16	1500	38	C	3,424.00

- <sup>(1)</sup> Cover with chain  
<sup>(2)</sup> With self-closing lid

**35/85-003**

Underground fire hydrant to EN 14339  
 Double shut off  
 Seat stainless steel  
 Ductile Iron  
 Polyurethane vulcanized plug  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-080-85-11008 <sup>(1)</sup>	80	PN16	800	27	C	2,550.00
35-080-85-11020 <sup>(2)</sup>	80	PN16	800	27	C	2,550.00
35-080-85-21008 <sup>(1)</sup>	80	PN16	1000	30	C	2,788.00
35-080-85-21020 <sup>(2)</sup>	80	PN16	1000	31	C	2,874.00
35-080-85-31008 <sup>(1)</sup>	80	PN16	1250	34	C	3,056.00
35-080-85-31020 <sup>(2)</sup>	80	PN16	1250	34	C	3,171.00
35-080-85-41008 <sup>(1)</sup>	80	PN16	1500	38	C	3,466.00
35-080-85-41020 <sup>(2)</sup>	80	PN16	1500	38	C	3,466.00

<sup>(1)</sup> Storz B coupling<sup>(2)</sup> Bayonet coupling and self-closing cover**35/85-004**

Underground fire hydrant to EN 14339 w. ball chamber 90°  
 Double shut off  
 Seat in stainless steel  
 Ductile Iron  
 Polyurethane vulcanized plug  
 Fusion bonded epoxy coating in compliance with DIN 3476 part 1 and EN 14901, GSK approved  
 Clockwise to Close



AVK ref. no.	DN mm	Product PN Class	Pipe cover mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
35-080-85-16034	80	PN16	550	24	C	4,149.00
35-080-85-26034	80	PN16	750	29	C	4,501.00
35-080-85-36034	80	PN16	1000	33	C	4,915.00
35-080-85-46034	80	PN16	1250	37	C	5,385.00





## 80/60-001

Flexdrain FS  
Packing for underground  
hydrants DN80/100  
PP



AVK ref. no.	Theoretical weight/kg	Deliv. code	Gross Price EUR
80-60-00001	0.8	A	87.00

## 80/60-002

Flexdrain HS  
Packing for underground  
hydrants DN80/100  
PP



AVK ref. no.	Theoretical weight/kg	Deliv. code	Gross Price EUR
80-60-00002	0.5	C	107.00

## 80/60-003

Flexdrain FF  
Packing for free flow  
underground hydrants DN  
80/100  
CO 145  
PP



AVK ref. no.	Theoretical weight/kg	Deliv. code	Gross Price EUR
80-60-00003	0.6	C	186.00

## 80/60-004

Flexdrain LDP  
Packing for underground  
hydrants DN80/100  
PP



AVK ref. no.	Theoretical weight/kg	Deliv. code	Gross Price EUR
80-60-00004	0.7	C	187.00

**78/7510-001**

Frost proof fountain post for parks and gardens  
Cast iron  
EPDM rubber  
AVK coating standard



AVK ref. no.	DN mm	H3 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
78-040-7510-100	40	1780	100	C	9,757.00

**78/7511-002**

Frost proof fountain post with fire outlet  
For parks and gardens  
Cast iron  
EPDM rubber  
AVK coating standard



AVK ref. no.	DN mm	H3 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
78-040-7511-100	40	1780	109	C	14,183.00

**78/7520-003**

Non frost proof fountain post for parks and gardens  
Cast iron  
EPDM rubber  
AVK coating standard



AVK ref. no.	DN mm	H3 mm	Theoretical weight/kg	Deliv. code	Gross Price EUR
78-020-7520-000	25	1780	62	C	5,424.00

# TERMS AND CONDITIONS OF SALE AND DELIVERY

## 1. Applicability

These general terms and conditions of sale and delivery ("**Conditions**") shall govern the current and future supply and delivery of products and services ("**Products**") from AVK International A/S ("**Supplier**") and purchased by the purchaser ("**Purchaser**"), unless otherwise agreed in writing. The applicability of any general and special terms and conditions of the Purchaser shall be excluded.

## 2. Quotations and Orders

The Supplier's quotations of Products and pricing shall be subject to change.

Contracts for delivery shall be accepted upon (i) written quotation by the Supplier accepted by the Purchaser in accordance with the terms of the quotation and subsequently confirmed by the Supplier in writing (ii) written confirmation by the Supplier of the Purchaser's order (each a "**Binding Order**"). A modification of a Binding Order shall be in writing.

## 3. Prices

All prices quoted by the Supplier shall be valid for 30 days only. The price of the Products shall be the price quoted by the Supplier or, where no price has been quoted (or the quoted price is no longer valid), the price listed in the Supplier's pricelist applicable at the date of acceptance. All prices shall be quoted by the Supplier on an ex works basis (EXW – INCOTERMS 2020) unless otherwise agreed in writing. The costs of packaging will be charged to the Purchaser in addition to the price of the Products. The prices are exclusive of any import duties, VAT, levies, taxes and other charges which may be imposed on the Products. Any typographical, clerical or other error or omission in any quotation, pricelist, acceptance offer, or other document or information issued by the Supplier may be corrected by the Supplier without any liability on the part of the Supplier.

The Supplier reserves the right by giving notice to the Purchaser at any time prior to dispatch to increase the price of the Products to reflect any substantial increase in the cost of the Supplier, which is due to factors beyond the control of the Supplier (including, but not limited to, any foreign exchange fluctuation, currency

regulation, alteration of duties, significant increase in the cost of labour, materials or other cost of manufacture or transportation) that gives the Supplier a disadvantage compared to the circumstances prevailing at the date of the acceptance of the Binding Order. Any such increase of price shall reflect the actual increased cost level as evidenced by the Supplier's records.

## 4. Terms of Payment

The Supplier shall be entitled to invoice the Purchaser for the price of the Products on, or at any time after, the scheduled delivery of the Products. The time of payment of the price of the Products is of the essence. The Purchaser shall pay the invoice for the Products within 30 days of the date of the invoice from the Supplier. If the Purchaser fails to make full payment on the due date, then, without prejudice to any other right or remedy available to the Supplier, the Supplier shall be entitled to (i) charge interest on the amount unpaid, at a rate of, at present, 1,00 % per month or fraction thereof (interest will be added monthly) and (ii) charge a fee of EUR 20 per payment reminder.

In the event of any payment default by the Purchaser, the Supplier shall be entitled to postpone the delivery and to store any undelivered Products at the expense of the Purchaser by use of a freight forwarding agency or by utilizing the storage facilities of the Supplier until payment of due invoices.

## 5. Delivery

Delivery shall take place EX WORKS (INCOTERMS 2020). Prior to dispatch, the Purchaser shall give the Supplier information regarding VAT number of the Purchaser. Upon receipt of the Products, the Purchaser shall issue to the Supplier a notice acknowledging the receipt of the Products and return required export statements. The Supplier shall be entitled to make partial deliveries. If the Purchaser fails to take delivery, the Supplier shall be entitled to store any undelivered Products at the expense of the Purchaser, i.e., by use of a freight forwarding agency or by utilizing the storage facilities of the Supplier. In the event of late delivery attributable to the Supplier, the Purchaser may seek liquidated damages for delay equal to zero-point five (0.5%) percent of the price of the invoiced value of the delayed

Products per week or fraction thereof up to a maximum of five (5.0%) percent of the invoiced value of the delayed Products. Liquidated damages as set out in this clause 5 shall be the only remedies available to the Purchaser in the event of a delay in delivery or non-delivery.

## 6. Cancellation and Return

A Binding Order can only be cancelled by written agreement between the Supplier and the Purchaser. The Supplier shall be entitled to charge the Purchaser with all costs that the Supplier may incur as a result of the Purchaser cancelling an order. Returns cannot be accepted more than 6 months after delivery.

The Purchaser cannot expect to receive payment of more than 70% of the purchase price of the Products returned. All returns must show the original invoice number, the date of delivery and be in a good sellable condition.

Return of special Products, Products which have been specially manufactured for the Purchaser or standard Products which have been changed to meet the Purchaser's specifications, shall not be accepted.

## 7. Packaging

Packaging may not be returned. Packaging which has been charged separately may be returned no later than three (3) months after the time of delivery but only upon written agreement.

## 8. Defects

The Purchaser shall be solely responsible for satisfying itself that the Products shall be suitable and/or fit for the particular purpose for which they have been ordered.

Products shall be deemed defective only when the Purchaser is able to prove that the Products are not in conformity with the Binding Order. At any rate, Defective Products shall be deemed not to include any non-conformity caused by

- (i) the use of a Product for an application for which it has not been designed or which has not been recommended by the Supplier;
- (ii) any change by the Purchaser of the chemical composition of the

# TERMS AND CONDITIONS OF SALE AND DELIVERY

- medium or treatment of the medium for which the Products has been used;
- (iii) installation which is not in accordance with the Supplier's installation instructions (if any) and accepted codes of good practice;
- (iv) lack of or faulty maintenance; and
- (v) normal wear and tear.

The Purchaser shall carry out a reasonable inspection of the Products within five (5) working days following the receipt of the Products, ascertaining that no transport damage has occurred, and shall notify the Supplier in the event of transport damage.

All other defects shall, to the extent possible, be notified to the Supplier within fifteen (15) working days from detection, by defining the defect and declaring the claims to be asserted (the "**Notification Period**"). In any event, the Purchaser shall lose the right to rely on a lack of conformity of the Products if the Purchaser does not give notice thereof to the Supplier within a period of (i) two (2) years from the date of installation at the latest or (ii) three (3) years (collectively the "**Cut-Off Date**") from the date on which the Products were delivered (whichever occurs first). In respect of electronic Products, incl. VIDi Products, the Purchaser shall notify the Supplier of any non-conformity no later than two (2) years from the date of delivery, or the Purchaser shall no longer have the right to make any claim against the Supplier (the "**Short Cut-Off Date**"). The Purchaser may, at the Purchaser's discretion, demand the Supplier to repair or replace the non-conforming Products. The Supplier shall cover direct costs for access and restoration, transport of a defect-free product to the site of installation, dismantling and reinstallation at the site of installation of the defective Products. In the event of repair or replacement by the Supplier, the Cut-Off Date and/or the Short Cut-Off Date period shall run from the time when the Products were first actually delivered, and not from the time of repair or replacement. No other remedies shall be available to the Purchaser in the event of a lack of conformity of the Products.

## 9. Retention of Title

Notwithstanding delivery and the passing of the risk involved in the Products, or any other provision of these Conditions, the ownership of the Products shall not pass to the Purchaser until the Supplier has received in cash or cleared funds payment in full of any amount due. Until such time as the ownership of the Products passes to the Purchaser, the Purchaser shall hold the Products as the Supplier's fiduciary agent and bailee and shall keep the Products separate from those of the Purchaser and third parties and properly stored, protected and insured and identified as the property of the Supplier. Until that time, the Purchaser shall be entitled to re-sell or use the Products in the ordinary course of its business but shall account to the Supplier for the proceeds of sale or otherwise the Products, whether tangible or intangible, including insurance proceeds, and shall keep all such proceeds separate from any monies or property of the Purchaser and third parties and, in the event of tangible proceeds, properly stored, protected and insured.

Until such time as the ownership to the Products passes to the Purchaser (and provided the Products are still in existence and have not been re-sold), the Supplier shall be entitled, at any time, to require the Purchaser to deliver the Products to the Supplier and, if the Purchaser fails to do so, forthwith to enter upon any premises of the Purchaser or any third party where the Products are stored and re-possess the Products.

## 10. Liability

Notwithstanding anything to the contrary in these Conditions, for any and all claims, losses, costs and damages whether such are based on indemnification, contract negligence, breach of contract, breach of warranty, statutory rules or otherwise and to the fullest extent permitted by applicable law, the liability of the Supplier shall be limited to:

- (i) in respect of property damage, the yearly limit shall be EUR 5 million (5,000,000); and
- (ii) in respect of any other liability, the total aggregate liability of the Supplier

- shall be limited to the amount of the purchase price of the Products payable under the relevant Binding Order; and
- (iii) reasonable costs for access and restoration, transport of a defect free product to the site of installation, dismantling and reinstallation at the site of installation of the defective Product to a maximum of EUR five million a year (5,000,000).

In no event shall the Supplier be liable to the Purchaser or to any third party for loss of profits, loss of revenue, loss of business opportunity, loss of time or for any indirect, incidental, special, consequential, punitive or exemplary damages arising out of or related to the delivery of any Products.

The limitation of liability set out above in this clause 10 shall not apply:

- (i) in the event of claims for compensation as a result of death or bodily injury;
- (ii) in the event of liability according to mandatory law;
- (iii) in the event of wilful intent or gross negligence on the part of the Supplier; and
- (iv) for reasonable costs in the event of an infringement of intellectual property rights related to the Supplier's performance; except infringement or violation arising from or based upon the Supplier's compliance with particular requirements of the Purchaser that differ from the Supplier's standard specifications for the Products.

## 11. Force Majeure

The Supplier shall not be liable for any delay or failure of performance due to strikes, lockouts, fires, floods, act of governmental authority, epidemics, pandemics, terrorism, political instability within the country in which the Supplier operates, acts of God or other causes beyond the Supplier's reasonable control provided that the Supplier has given notice to the Purchaser



# TERMS AND CONDITIONS OF SALE AND DELIVERY

of any such cause for delay or anticipated delay promptly following its commencement and has done its commercially best efforts to perform as expeditiously as possible. If the delay or failure in performance lasts more than 30 days, the Purchaser shall have the right, without liability to the Supplier, to immediately terminate the Binding Order(s) in respect of such part of the Products which cannot be used as intended by the Purchaser as a consequence of the force majeure event.

## 12. Software

If the Product is delivered with embedded software or any additional software is purchased, the Purchaser (or end-user if the Purchaser is a distributor) shall obtain a non-exclusive, non-transferable, non-sublicensable, and revocable software license in the form of a right of use to the software solely for the purposes set out in the applicable specification of the Product. Unless explicitly set out in the applicable Binding Order, the Purchaser shall obtain (i) no rights in the form of patent, copyright, trademark or other proprietary right connected to the software, (ii) no rights to software source codes, (iii) no authorization to make any changes, additions, improvements, alterations, or modifications of any kind to the software, (iv) no right to copy, reproduce, modify, pass on to or in any other way communicate the software to a third party without prior permission from the Supplier. The Purchaser shall be solely responsible for satisfying itself that the software supplied will function in combination with the Purchaser's other equipment, software or materials. The Supplier shall not be liable for, and the Purchaser shall indemnify and hold the Supplier harmless from, any and all claims, losses, costs and damages arising as a result of a configuration or change that is incorporated into the software at the Purchaser's request or a process use requested or controlled by the Purchaser. The Supplier does not guarantee that the software supplied will function uninterrupted.

If the Product is delivered with embedded software or if any additional software is purchased, such software shall be subject to further detailed license terms, End User License Agreement ("EULA"), which shall, for the avoidance of doubt, supersede any contradicting terms and conditions set out in these Conditions.

Unless otherwise agreed in writing, e.g., in the EULA, the software shall be provided on an automatically renewed yearly subscription, which shall be invoiced subject to clause 4 of these Conditions. Termination of such subscription shall be provided in writing end of month + 30 days.

## 13. Intellectual Property Rights ("IPR")

The Supplier shall have the sole and exclusive right to all registered or non-registered IPR of any kind (including, but not limited to, patents, copyright and related rights, moral rights, trademarks and service marks, business names and domain names, goodwill, rights in designs, rights in computer software, database rights, ideas, know-how, inventions, technical improvements of any type and trade secrets) in relation to the Product, including but not limited to drawings, calculations, designs, details of production, computer programs, data, prototypes, samples, models, moulds and other physical and/or electronic documents, information and materials.

In the event of infringement or violation of IPR of any kind arising from or based upon the Supplier's compliance with particular requirements of the Purchaser that differ from the Supplier's standard specifications for Products, the Purchaser shall indemnify and hold the Supplier harmless from any and all claims, losses, costs and damages arising as a result of such a deviation.

## 14. No waiver

Any waiver by either party of a breach of any provision of these Conditions shall not be regarded as a waiver of any subsequent breach or any other provision of these Conditions.

## 15. Severance

If any provision of these Conditions is held by any competent authority to be invalid or unenforceable in whole or in part, the validity of the other provisions of these Conditions and the remainder of the provision in question shall not be affected thereby.

## 16. Default of the Purchaser

If the Purchaser commits any breach of obligations towards the Supplier, the Supplier shall be entitled (without prejudice to any other rights of the Supplier) forthwith (i) to suspend further performance by the Supplier or (ii) to terminate the Binding Order(s) affected.

## 17. Venue and Jurisdiction

These Conditions shall be governed by the laws of Denmark, with exclusion of any choice of law rules. The applicability of the United Nations Convention on Contracts for the International Sale of Goods (CISG) is explicitly included for international sales. Any dispute or claim arising out of or in connection with these Conditions shall be referred to and resolved by arbitration, however, the Supplier may at its own discretion sue the Purchaser at any place of jurisdiction through ordinary court. Arbitration shall be conducted in accordance with the rules of The Danish Institute of Arbitration in force at the time when such proceedings are commenced. The place of arbitration shall be in the capital in the state of the Supplier. English shall be the language used during any such proceedings unless otherwise agreed in writing between the Parties. In addition to the aforesaid, either party shall be entitled to seek injunctive relief by a competent court as may be necessary to restrain any breach or threatened breach of these Conditions by the other party.

AVK International A/S  
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Expect... **AVR**