



# AVK Australia Holding Pty Ltd

## PRODUCT APPRAISAL REPORT 1703 Issue 9

AVK Resilient Seated Gate Valves

**AS 2638.2:2011 Gate valves for waterworks purposes – Resilient seated**

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## Overview of WSAA

The Water Services Association of Australia (WSAA) is the peak industry body representing the urban water industry. Our members provide water and sewerage services to over 20 million customers in Australia and New Zealand and many of Australia's largest industrial and commercial enterprises.

Based around our vision of 'customer driven, enriching life', WSAA facilitates collaboration, knowledge sharing, networking and cooperation within the urban water industry. We are proud of the collegiate attitude of our members which has led to industry-wide approaches to national water issues.

WSAA can demonstrate success in the standardisation of industry performance monitoring and benchmarking, as well as many research outcomes of national significance. The WSAA Executive retains strong links with policy makers and legislative bodies and their influencers, to monitor emerging issues of importance to the urban water industry.

WSAA was formed in 1995 as a non-profit organisation to foster the exchange of information between industry, government and the community, and to promote sustainable water resource management.

The urban water industry is committed to anchoring its services to customers' values, and to enrich communities where water services have broad economic, environmental and social values. In line with this our main activities focus on four areas:

1. influencing national and state policies on the provision of urban water services and sustainable water resource management
2. promoting debate on environmentally sustainable development and management of water resources and the community health requirements of public water supplies
3. improving industry performance and establishing benchmarks and industry leading practices for water service processes; and
4. fostering the exchange of information on education, training, research, water and wastewater management and treatment and other matters of common interest.

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## 1 EXECUTIVE SUMMARY

AVK Australia Holding Pty Ltd is part of the AVK Group, an international manufacturer of valves and fittings for the water, gas, sewerage and fire protection industries

This appraisal covers DN 80 to DN 750 AVK resilient seated gate valves manufactured to AS/NZS 2638.2:2011 *Gate valves for waterworks purposes, Part 2: Resilient-seated* with the following configurations:

Flange – Flange: DN 80 – DN 750 (including an option in sizes DN 80 to DN 300 with lead-free copper alloy thrust collars and gate nuts manufactured at AVK Anhui)

Socket – Socket: DN 80 – DN 375 (including an option in sizes DN 80 to DN 300 with lead-free copper alloy thrust collars and gate nuts manufactured at AVK Anhui)

Spigot – Spigot: DN 80 – DN 300

Flange – Socket: DN 80 – DN 150

Integral PE Tail Ends: DN 80/90, DN 150/180 and DN 300/315

Flange – Flange with integral bypass: DN 450 – DN 750

Flange – Flange OS&Y: DN 80 – DN 300

The range is detailed in Section 3 Table 1.

This Issue 9 is to include DN 80/90, DN 150/180 and DN 300/315 RSVs with integral PE tail ends and to clarify that the DN 80 to DN 300 RSVs with lead free components are manufactured at the AVK Anhui facility.

Issue 8 was to include additions to the RSV range for flange – flange and socket – socket configurations in sizes DN 80 to DN 300 that includes lead-free copper alloy gate nuts and thrust collars.

Issue 7 was a replacement for the previous version of the appraisal which had reached its 5-year expiry date.

The RSVs are rated as PN 16 and are available with either clockwise or anti-clockwise closing directions. Operation can be by key, hand wheel or gearbox.

AVK Australia and AVK Anhui both hold ISO 9001 Quality Management System Licences.

The AVK resilient seated gate valve range has ISO Type 5 StandardsMark product certification to AS 2638.2-2011.

AVK resilient seated gate valves in sizes DN 80 to DN 750 are deemed to meet the requirements of WSA PS 260 *Gate Valves, Resilient Seated for Pressure Applications – Drinking Water, Non-Drinking Water Supply and Sewerage*, WSA PS 278 *Gate Valves, Resilient Seated with Integral Polyethylene (PE) Ends for Pressure Applications - Drinking Water, Non-Drinking Water Supply and Sewerage* and are considered as ‘fit-for-purpose’.

### 1.1 Recommendations

It is recommended that WSAA members, subject to any specific requirements of the member, accept/authorise the AVK range of DN 80 to DN 750 resilient seated gate valves included in this Appraisal and detailed in Section 3, for use in water supply and sewerage pressure pipelines, provided they are installed in accordance with applicable WSAA codes and manufacturers’ requirements.

## 2 THE APPLICANT

The Applicant is AVK Australia Holding Pty Ltd.

## 2.1 The Manufacturer

AVK Australia Holding Pty Ltd is privately owned and part of the AVK Group which is comprised of more than 100 companies operating in more than 35 countries. AVK is a leading international manufacturer of valves and pipeline accessories.

AVK Australia incorporates AVK Valves, AVK Wang, AVK Currumbin, AVK Flow Control and AVK Complete Tapping Service. The company utilises its local manufacturing footprint as well as the AVK Global production supply chain to service pipeline infrastructure, water treatment, sewage processing, fire protection, irrigation, dams, reservoirs, mining operations and gas distribution.

AVK has been manufacturing in Australia for over 20 years and specialises in a range of valves, hydrant, couplings, repair clamps, tapping saddles, pipe fittings and other fittings and specialty products.

AVK machines, coats, assembles and tests the range of resilient seated gate valves at its Wingfield facility in Adelaide, South Australia for sizes up to DN 400, except that DN 80 to DN 300 RSVs with lead free components are manufactured by AVK Anhui in China. Valve components are sourced from various suppliers based in countries including Australia, Denmark and China. DN 450 to DN 750 valves and DN 80 to DN 300 valves with lead free components are manufactured by AVK Anhui in China. Valves with integrated bypass arrangements are assembled and tested in Wingfield.

AVK has requested that the identity of their component suppliers remain “commercial in confidence” however has provided details and supplied copies of their ISO 9001 Quality Management System licences together with typical material test reports to validate compliance.

## 3 THE PRODUCT

This appraisal covers DN 80 to DN 750 AVK resilient seated gate valves manufactured to AS/NZS 2638.2:2011 *Gate valves for waterworks purposes, Part 2: Resilient-seated*.

The range is detailed in Table 1.

**TABLE 1. AVK RESILIENT SEATED GATE VALVES**

DN	Flanged	Socketed	Spigoted	FI - Soc	PE Integral Tail Ends	Flanged with Integral Bypass	Flanged OS&Y
80	✓	✓	✓	✓	✓		✓
100	✓	✓	✓	✓			✓
150	✓	✓	✓	✓	✓		✓
200	✓	✓	✓				✓
225	✓	✓	✓				✓
250	✓	✓	✓				✓
300	✓	✓	✓		✓		✓
375	✓	✓					
400	✓						
450	✓					✓ DN 100, DN 150	
500	✓					✓ DN 100, DN 150	

DN	Flanged	Socketed	Spigoted	FI - Soc	PE Integral Tail Ends	Flanged with Integral Bypass	Flanged OS&Y
600	✓					✓ DN 100, DN 150	
750	✓					✓ DN 150	
DN 80 to DN 300 flanged and socketed valves have an option for lead-free copper alloy gate nuts and thrust collars. These valves are manufactured at AVK Anhui							

The RSVs included in this Appraisal are rated as PN 16 and are available with either clockwise or anti-clockwise closing directions. Operation can be by key, hand wheel or actuator.

Flanges comply with Figure B5 of AS/NZS 4087: 2011 *Metallic flanges for waterworks purposes*. Flanges drilled to AS 2129 Table E are also available.

AS/NZS 2638.2 does not currently include integral PE tail ends however WSA PS 219 details the requirements for this end option. PE100 SDR11 PN16 pipe is pressed onto a grooved valve end, locked with a steel ring and sealed with a plastic shrink wrap for corrosion protection. This end type option allows the gate valves to be fitted into a PE pipeline using fusion welding or electrofusion couplings.

AVK manufactures a range of RSVs with integral PE tail ends in sizes DN 80 to DN 300 however not all sizes have been type tested in accordance with WSA PS 219. Only DN 80/90, DN 150/180 and DN 300/315 have therefore been included in the scope of this Appraisal.

Polymeric coatings conform to AS/NZS 4158:2003 Thermal bonded polymeric coating on valves and fittings for water industry purposes.

#### 4 SCOPE OF THE APPRAISAL

The scope of this appraisal includes DN 80 to DN 750 PN 16 resilient-seated gate valves with clockwise or anticlockwise closing options and operation by key, hand wheel or actuator, as detailed in Table 1 and included in the ISO Type 5 StandardsMark Product Certification schedule.

#### 5 APPRAISAL CRITERIA

##### 5.1 Quality Assurance Requirements

The WSAA Product Appraisal Technical Advisory Group accepts gate valves manufactured in compliance with AS/NZS 2638.2:2011 *Gate valves for waterworks purposes, Part 2: Resilient seated* and duly certified by means of an ISO Type 5 product certification scheme undertaken by a JAS-ANZ accredited Conformity Assessment Body (CAB) or by an international accreditation system recognised by JAS-ANZ.

The manufacturer is generally expected to have a production management and control system that has been duly accredited in accordance with ISO 9001 as a prerequisite to undergoing a product certification audit.

The ISO Type 5 Product Certification Scheme shall meet the criteria described in WSA TN-08.

##### 5.2 Performance Requirements

AVK resilient seated gate valves have been appraised for compliance with AS/NZS 2638.2:2011 *Gate valves for waterworks purposes, Part 2: Resilient seated*.

Appraisal criteria are also determined by the WSAA WSAA Product Appraisal Technical Advisory Group and regularly reviewed to ensure that the criteria reflect the requirements of WSAA members.



The following Product Specifications are also relevant to this application:

WSA PS 260 *Gate Valves, Resilient Seated for Pressure Applications – Drinking Water, Non-Drinking Water Supply and Sewerage.*

WSA PS 278 *Gate Valves, Resilient Seated with Integral Polyethylene (PE) Ends for Pressure Applications - Drinking Water, Non-Drinking Water Supply and Sewerage*

A copy of the Product Specifications is available at the following link:

<https://www.wsaa.asn.au/shop/product/60961>

## 6 COMPLIANCE WITH APPRAISAL CRITERIA

### 6.1 Compliance with Quality Assurance Requirements

AVK has submitted the following quality certificates:

- ISO 9001:2015 Certificate of Registration No. QEC 13894 issued to AVK Australia Holding Pty Ltd by SAI-Global.
- ISO 9001:2015 Certificate of Registration FM 84039 issued to AVK Valves (Anhui) Co Ltd by BSI.
- AS/NZS 2638.2:2011 ISO Type 5 StandardsMark Product Certification Licence No. SMK 02420 issued to AVK Australia Holding Pty Ltd by SAI-Global.

Copies of the Quality Assurance and Product Certification licences have been included in Appendix B and are also available from WSAA.

Copies of Quality Assurance certificates have also been supplied for the component suppliers and are held on file by WSAA.

### 6.2 Compliance with Performance Requirements

#### 6.2.1 Material properties of ductile iron

AS/NZS 2638.2 Table 2.1 requires ductile iron components to conform to minimum grade 400-15, although higher strength ductile iron to AS1831 is also acceptable. AVK has nominated Grade 500-7 ductile iron as the material grade for their RSV's and have provided material test certificates to demonstrate compliance to this specification.

#### 6.2.2 Components material list

The AVK RSV material specifications are detailed below in Table 2. Material test certificates have been submitted for each component to demonstrate conformance to the nominated material. The materials meet the requirements of AS/NZS 2638.2 and WSA TN10.

**TABLE 2 AVK RSV COMPONENT MATERIAL LIST**

Component	AS/NZS 2638.2 Basic Material	AVK		
		Material	Standard	Grade
Body	Ductile Iron	Ductile Iron	AS 1831	GJS/500-7
Bonnet	Ductile Iron	Ductile Iron	AS 1831	GJS/500-7
Spindle seal retainer	Copper Alloy	Stainless Steel# Copper Alloy#	CF8M EN 1982	ASTM A743 CC491K
Gate core	Ductile Iron	Ductile Iron	AS 1831	GJS/500-7
Gate encapsulation	Synthetic Rubber	Synthetic Rubber	AS 1646	EPDM
Gate nut	Copper Alloy	Copper Alloy	EN 12420 EN 12165	CW602N CW724R*

Component	AS/NZS 2638.2 Basic Material	AVK		
		Material	Standard	Grade
Thrust collar	Copper Alloy	Copper Alloy	EN12420 EN 12165	CW602N CW724R*
Spindle	Stainless Steel	Stainless Steel	ASTM A276	431
Spindle cap	Ductile Iron	Ductile Iron	AS 1831	GJS/500-7
Fasteners	Stainless Steel	Stainless Steel	ASTM A276	316
Gaskets	Synthetic Rubber	Synthetic Rubber	AS1646	EPDM
O-rings	Synthetic Rubber	Synthetic Rubber	AS 1646	NBR
PE Ends	-	Polyethylene	AS/NZS 4130	PE100 PN16

# Acceptable alternatives nominated in AS/NZS 2638.2 \* Lead free option. Equivalent to C69200 nominated in WSAA TN10.

### 6.2.3 Flanges

Flanges comply with AS/NZS 4087:2011 *Metallic flanges for waterworks purposes* PN 16, Figure B5.

Recommended installation is in accordance with the requirements of AS/NZS 4087.

### 6.2.4 Elastomeric joints

The sockets are T- type and designed for jointing to spigots of AS/NZS 2280 ductile iron pipes and Series 2 spigots of AS/NZS 1477 PVC-U, AS/NZS 4441 PVC-O, AS/NZS 4765 PVC-M and AS 3518 ABS pressure pipes.

The AVK sockets are also suitable for use with Series 1 PVC pipes using seals manufactured in EPDM elastomer complying with AS 1646.

Type Test Reports were submitted for PA 1016 to demonstrate compliance of the elastomeric seal joints with the requirements of AS/NZS 2280.

### 6.2.5 Polymeric thermal bonded coatings

AVK resilient seated valves are coated with Akzo Nobel Resicoat R4, a thermosetting epoxy powder coating.

Akzo Nobel Resicoat R4 has StandardsMark product certification to AS/NZS 4158:2003 *Thermal-bonded polymeric coatings on valves and fittings for water industry purposes*, issued by SAI-Global. A copy of the certification is held on file by WSAA.

The coating is applied in-house by AVK at either the Adelaide or Anhui facilities and application procedures are audited by SAI-Global in conjunction with AS/NZS 2638.2 StandardsMark certification procedures.

### 6.2.6 Type tests

AVK has submitted copies of Type Test reports for DN 80 to DN 750 resilient seated gate valves to demonstrate compliance with AS/NZS 2638.2:2011. The testing was completed by Prove Standards and Engineering Pty Ltd, University of SA and National Centre for Supervision and Inspection of Drainage Irrigation and Water Saving Equipment Products Quality.

AVK has submitted copies of Type Test reports for pull out tests as required by WSA PS 278 for the following valves with PE integral tail ends: DN 80 with DN 90 PE end, DN 150 with DN 180 PE end and DN 300 with DN 315 PE end. The testing was undertaken by IQA (IAS Accreditation No.TL-573). The pull-out tests were undertaken to AS/NZS 4129; however, the pull-out force exceeds the requirement of EN 12842 and is therefore deemed acceptable.

### 6.2.7 Contact with drinking water

Clause 2.3 of AS/NZS 2638.2 requires compliance with AS/NZS 4020 *Testing of products for use in contact with drinking water*. AVK has submitted a complying Test Report No. 223527 dated 10<sup>th</sup> April 2018 from Australian Water Quality Centre where testing was carried out on a DN 80 RSV to demonstrate compliance to AS/NZS 4020:2005.

## 7 FITTING INSTRUCTIONS, TRAINING AND INSTALLATION

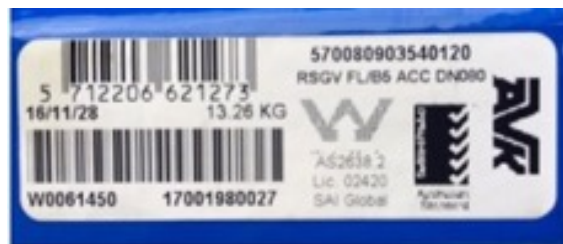
An Installation, Operation & Maintenance Manual is available for the range of resilient seated gate valves. The manual can be obtained by downloading from the following link <http://www.avkvalves.com.au/en-au/downloads/product-manuals> or from WSAA.

## 8 PRODUCT MARKING

AVK resilient seated gate valves have the following marking cast on the valve body in accordance with AS/NZS 2638:2011:

- Manufacturers Name / Brand: AVK
- Nominal Size: DN XXX
- Year of manufacture: yymmdd
- Pressure classification: PN 16
- Standard number: AS 2638.2

AVK also applies a durable label permanently affixed to the body that has additional markings including the StandardsMark logo and other details. See Figure 1 for an example.



**FIGURE 1 ADDITIONAL MARKING**

## 9 PACKAGING AND TRANSPORTATION

AVK RSV's are supplied with the gate in a partly open position to avoid a permanent set of the EPDM rubber. This is in accordance with AS/NZS 2638.2.

The valves are palletised, separated with corrugated cardboard and shrink wrapped to prevent product movement and damage to coatings during transportation.



**FIGURE 2 DETAILS OF PACKAGING**

**10 PRODUCT WARRANTY**

The products are covered by the normal commercial and legal requirements of the *Competition and Consumer Act 2010 (Cth)*, which covers manufacture to the relevant standard. Details of AVK’s warranty is included in their terms and conditions of sale.

**11 WATER AGENCY EXPERIENCE WITH THE PRODUCT OR FIELD TESTING REPORT**

Gate valves have been in common use for many years and are currently utilised by all water agencies throughout Australia. It is deemed unnecessary to conduct a field trial as nothing new can be learned.

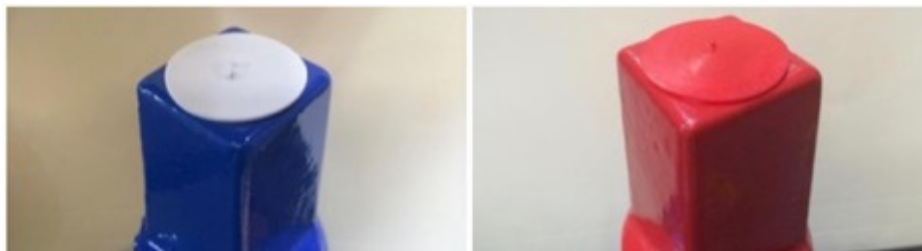
**12 DISCUSSION**

Table 3 below highlights the recommendations of use for the AVK gate valve range.

**TABLE 3 GATE VALVES LIMITATION OF USE**

Product Detail	Recommendation
Suitable Applications	Pipelines used in water reticulation, sewage, waste water and irrigation
Limitations	Maximum service temperature 40°C.
	Gate valves should not be used for throttling or adjusting flow.

Spindle caps are supplied fully coated blue with a white insert for anti-clockwise close and red with a red insert for clockwise close. Purple coloured spindle caps are also available for recycled water applications.



**FIGURE 3 SPINDLE CAP COLOURING**

**13 OUTCOMES OF EXPERT PANEL PRODUCT REVIEW**

There are no outstanding queries.

**14 FUTURE WORKS**

No future works have been identified.

**15 DISCLAIMER**

This Product Appraisal Report (Report) is issued by the Water Services Association of Australia Limited on the understanding that:

This Report applies to the product(s) as submitted. Any changes to the product(s) either minor or major shall void this Report.

To maintain the recommendations of this Report any such changes shall be detailed and notified to the Product Appraisal Manager for consideration and review of the Report and appropriate action. Appraisals and their recommendations will be the subject of continuous review dependent upon the satisfactory performance of products.

WSAA reserves the right to undertake random audits of product manufacture and installation. Where products fail to maintain appraised performance requirements the appraisal and its recommendations may be modified and reissued. Appraisal reports will be reviewed and reissued at regular intervals not exceeding five (5) years.

The following information explains a number of very important limits on your ability to rely on the information in this Report. Please read it carefully and take it into account when considering the contents of this Report.

Any enquiries regarding this report should be directed to the Program Manager, Carl Radford, Phone: 03 8605 7601 email [carl.radford@wsaa.asn.au](mailto:carl.radford@wsaa.asn.au).

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Recipients should also independently verify and assess the appropriateness of any recommendation in the Report, especially given that any recommendation will not take into account a Recipient's particular needs or circumstances.

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## APPENDIX A - PRODUCT LITERATURE



**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, AS/NZS 4087 B5, DN80 - DN400**

**570/90-003**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the valves unmatched reliability.

**Product description:**

Gate valve for drinking water and neutral liquids to max. 70°C. For AS/NZS 4020 compliance, max temp 40°C.

**Standards:**

- Designed to: AS/NZS 2638.2
- Face to face: AS/NZS 2638.2
- Flange drilling: AS/NZS 4087 B5

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 2 x PN (in bar). Operation torque test.
- StandardsMark and WaterMark approved to AS/NZS 2638.2

**Features:**

- Fixed, integral wedge nut prevents vibration
- Polyamide wedge shoes protect the wedge during opening and closing reducing friction
- Stainless steel stem with wedge stop
- Ductile iron wedge, fully vulcanized with EPDM rubber
- Stainless steel gland flange, stem and bolts for increased corrosion resistance
- Gland flange removable under pressure for replacement of thrust bearing and seals
- Three independent stem seals; a metal reinforced wiper ring protects against external dust, o-rings protect the bearings with the major seal to flow being an EPDM o-ring
- Round bonnet gasket fixed in a recess to prevent blow out under pressure
- Counter-bored stainless steel bonnet bolts sealed with hot-melt glue and integral o-rings of the bonnet gasket
- Full bore
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020

**Accessories:**

- Handwheel



**DN80, 100**



**DN225, 250, 300, 375, 400**



**DN150, 200**

Expect... **AVK**

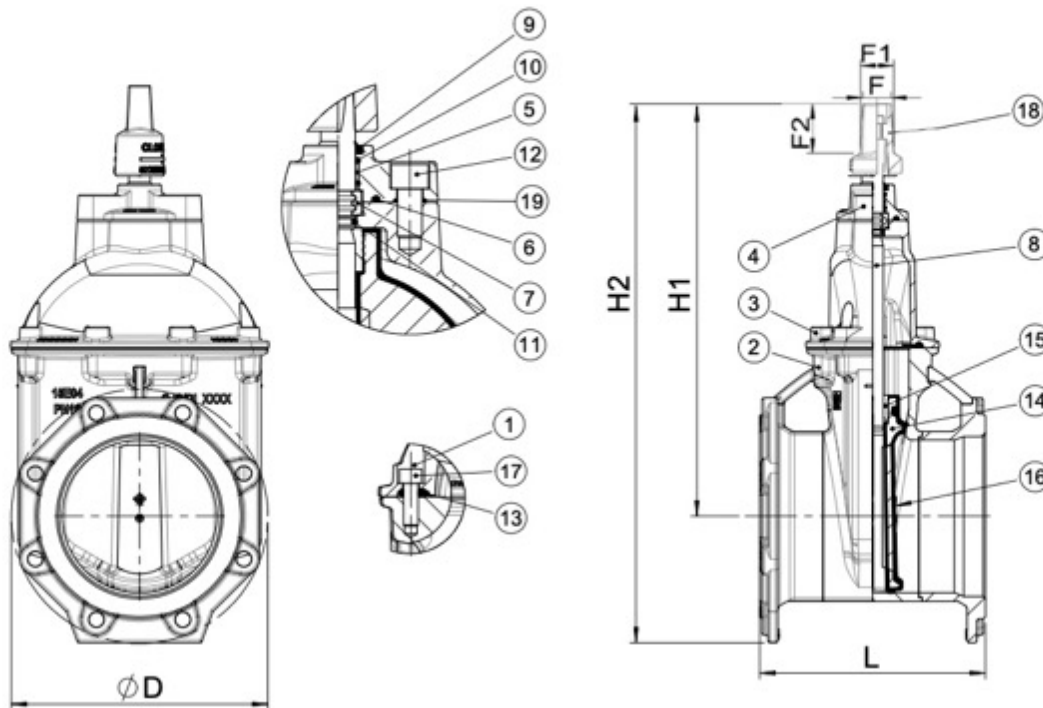
The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product programme.

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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, AS/NZS 4087 B5, DN80 - DN400**

**570/90-003**



**Component list**

1. Hot melt seal		12. Bolt socket	Stainless Steel 316, fully encapsulated with hot melt glue
2. Body	Ductile Iron, 500-7 to AS 1831	13. Bonnet gasket	EPDM rubber
3. Bonnet	Ductile Iron, 500-7 to AS 1831	14. Wedge	Ductile Iron, 500-7 to AS 1831
4. Gland Flange	Stainless Steel CF8M	15. Wedge nut	Dezincification resistant brass, CZ 132 to AS 2345
5. Bushing	Polyamid	16. Wedge rubber	EPDM
6. O-ring	NBR	17. Bolt socket	Stainless Steel 316, fully encapsulated with hot melt glue
7. Thrust collar	DZR Brass, CZ 132 to AS 2345	18. Stem cap	Ductile Iron, 500-7 to AS 1831, 35mm cap square
8. Stem	Stainless Steel 431	19. O-ring	NBR
9. Wiper ring	NBR		
10. O-ring	NBR		
11. O-ring	NBR		

Components can be substituted with equivalent or higher class materials.

**Reference nos. and dimensions:**

AVK ref. no.	DN	L	D	H1	H2	F	F1	F2	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	mm	mm	
570-080-90-3540120	80	203	190	324	397	28.5	33.5	50	13
570-100-90-3540120	100	229	218	347	430	28.5	33.5	50	16
570-150-90-3540120	150	267	285	429	572	28.5	33.5	50	32
570-200-90-3540120	200	292	332	561	726	27.8	33.5	57	52
570-225-90-3540120	225	305	370	643	828	27.8	33.5	57	87
570-250-90-3540120	250	330	405	656	858	27.8	33.5	57	93
570-300-90-3540120	300	356	455	739	967	27.8	33.5	57	126
570-375-90-3540120	375	381	550	917	1192	27.8	33.5	57	227
570-400-90-3540120	400	406	580	930	1220	27.8	33.5	57	237

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**AVK RESILIENT SEATED GATE VALVE, PN16**

**570/91-002**

**Flanged ends, drilling to AS/NZS 4087 B5, stem cap, ACC**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

**Product description:**

Flanged gate valve for water, sewage and neutral liquid applications to max. 70°C. For AS 4020 compliance, max temp 40°C.

**Design standards:**

- AS/NZS 2638.2
- Flange drilling to AS/NZS 4087 B5
- Coating to AS/NZS 4158
- Valves comply with AS/NZS 4020

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Hydraulic pressure test: seat 17.6 bar / shell 24 bar
- StandardsMark approved to AS/NZS 2638.2
- WaterMark approved to AS/NZS 2638:2
- ISO 9001 certified - SAI Global Quality
- ISO 14001 certified - SAI Global Environment

**Features:**

- Wedge nut designed as a fixed, integral part of the wedge which prevents vibration and ensures durability
- Wedge fully vulcanized with drinking water approved EPDM rubber
- Wedge shoes in PA and guide rails on the body make the wedge slide easily up and down, even with high differential pressure
- A large conical stem hole going all the way through the wedge ensures circulation and prevents stagnant water
- Full circle thrust collar keeps the stem firmly lined up and ensures low operating torque
- Stainless steel stem and bolts for increased corrosion resistance
- Seal housing incorporates inner/outer O-ring seals and wiper ring for long life operation
- Stem sealing replaceable under pressure
- Bonnet gasket with a circular cross-section and fixed in a recess to avoid blow-out
- Counterbored stainless steel A4 bonnet bolts, sealed with hot-melt and encircled by the bonnet gasket
- Full bore
- Blue fusion bonded epoxy according to AS4158

**Accessories:**

Handwheel

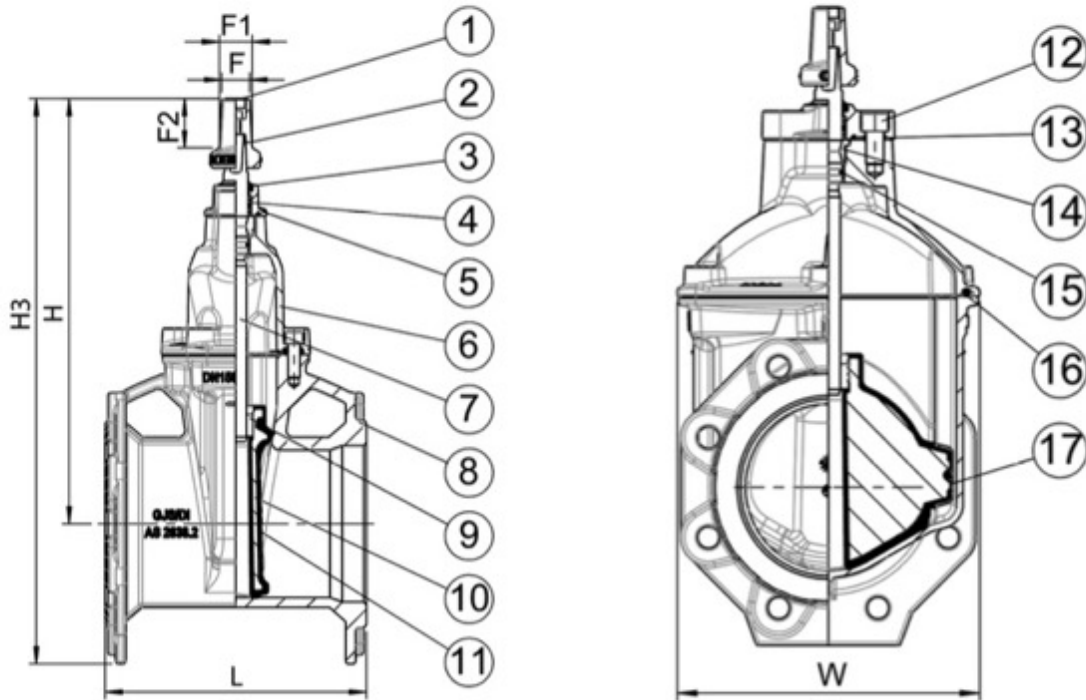


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**AVK RESILIENT SEATED GATE VALVE, PN16**  
**Flanged ends, drilling to AS/NZS 4087 B5, stem cap, ACC**

570/91-002



**Component list:**

1. Insert	Plastic	10. Wedge body	Ductile iron GJS-500-7
2. Stem cap	Ductile iron GJS-500-7	11. Wedge rubber	EPDM rubber
3. Wiper ring	NBR rubber	12. Bolt	Stainless steel A4-70
4. Seal retainer	Bronze CC491K	13. Gland gasket	NBR rubber
5. Gland flange	Ductile iron GJS-500-7	14. Thrust collar	Brass DZR CW724R
6. Bonnet	Ductile iron GJS-500-7	15. O-ring	EPDM rubber
7. Stem	Stainless steel 1.4057	16. Bonnet gasket	EPDM rubber
8. Body	Ductile iron GJS-500-7	17. Wedge shoe	PA 6.6
9. Wedge nut	Brass DZR CW724R		

Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN mm	Flange drilling	L mm	W mm	H mm	H3 mm	F mm	F1 mm	F2 mm	Theoretical weight/kg
570-080-91-3540120	80	AS 4087 B5	203	173	307	380	28.5	33.5	50	12
570-100-91-3540120	100	AS 4087 B5	229	194	328	411	28.5	33.5	50	15
570-150-91-3540120	150	AS 4087 B5	267	274	434	576	28.5	33.5	50	31
570-200-91-3540120	200	AS 4087 B5	292	334	568	733	27.8	33.5	57	50
570-225-91-3540120	225	AS 4087 B5	305	422	651	836	27.8	33.5	57	85
570-250-91-3540120	250	AS 4087 B5	330	422	664	866	27.8	33.5	57	91
570-300-91-3540120	300	AS 4087 B5	356	455	746	973	27.8	33.5	57	124

The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.



**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, ISO Mounting Flange, AS/NZS 4087 B5, DN450-DN750**

**570/92-004**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple stem seal system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

**Product description:**

Gate valve for drinking water and neutral liquids to max. 70°C. For AS/NZS 4020 compliance, max temp 40°C.

**Standards:**

- Designed to: AS/NZS 2638.2
- Face to face: AS/NZS 2638.2
- Flange drilling to AS/NZS 4087 B5

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test.
- StandardsMark and WaterMark approved to AS/NZS 2638.2

**Features:**

- Fixed, integral wedge nut prevents vibration
- Polyamide wedge shoes protect the wedge rubber during opening and closing
- Stainless Steel stem with wedge stop
- Ductile Iron wedge, fully vulcanised with EPDM rubber
- Stainless Steel gland flange, stem and bolts for increased corrosion protection
- Three independent stem seals: a metal reinforced wiper ring protects against external dust, o-rings protect the radial bearing with the major seal to flow being an EPDM o-ring
- Thrust bearing consisting of a series of stainless steel washers covered with a layer of PTFE coated bronze ensures low operating torque
- Removable gland flange for under pressure replacement of thrust bearings and seals
- Round bonnet gasket fixed in a recess to prevent blow-out under pressure
- Counterbored stainless steel A4 bonnet bolts sealed with hotmelt glue and integral o-rings of the bonnet gasket
- Full bore
- Integrated lifting eyes for easy handling
- ISO Mounting Flange = F16/14 for DN450-600 and F16 for DN750 valves
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020

**Accessories:**

Gearbox / Actuator



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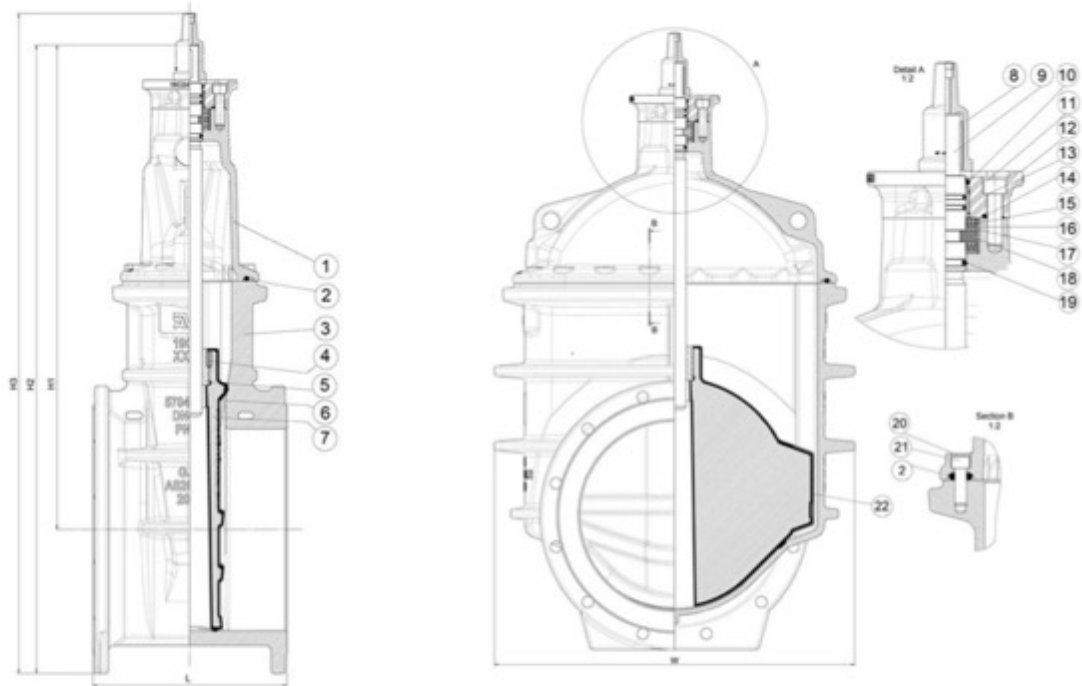
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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, ISO Mounting Flange, AS/NZS 4087 B5, DN450-DN750**

570/92-004

**Component list:**

1. Bonnet	Ductile iron GJS-500-7	12. Gland flange <sup>(1)</sup>	Stainless Steel / Ductile Iron
2. Bonnet gasket	EPDM rubber	13. Radial bearing	Bronze CC491K
3. Body	Ductile iron GJS-500-7	14. O-ring	NBR rubber
4. Lock pin	Steel	15. Bushing	Polyamide
5. Wedge nut	Brass, DZR CZ132	16. Thrust bearing	CSB
6. Wedge rubber	EPDM rubber	17. Support washer	Stainless steel 1.4057
7. Wedge core	Ductile iron GJS-500-7	18. Thrust collar	Stainless steel 1.4057
8. Stem Cap	Ductile iron GJS-500-7	19. Stem seal	EPDM rubber
9. Stem	Stainless steel 1.4057	20. Seal	Hot melt glue
10. Wiper ring	NBR rubber	21. Bonnet bolt	Stainless steel A4
11. Gland flange bolt	Stainless steel A4	22. Wedge shoe	Polyamide

(1) DN450-600 is Stainless Steel, DN750 is DI  
 Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN	H1	H2	H3	L	W	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	
570-450-92-3540120	450	1077	1397	1467	432	860	482
570-500-92-3540120	500	1105	1457	1527	457	860	517
570-600-92-3540120	600	1244	1656	1726	508	969	720
570-750-92-3540120	750	1698	2196	2268	610	1250	1705

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## AVK GATE VALVE, RESILIENT SEATED, PN16 ACC, Stem Cap, Socket ends, DN80 - DN375

570/50-002

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the valves unmatched reliability.

### Product description:

Gate valve for drinking water and neutral liquids to max. 70°C. For AS/NZS 4020 compliance, max temp 40°C.

### Standards:

- Designed to: AS/NZS 2638.2
- Socket ends to AS/NZS 2280

### Test/Approvals:

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 2 x PN (in bar). Operation torque test.
- StandardsMark and WaterMark approved to AS/NZS 2638.2

### Features:

- Fixed, integral wedge nut prevents vibration
- Polyamide wedge shoes protect the wedge during opening and closing reducing friction
- Stainless steel stem with wedge stop
- Ductile iron wedge, fully vulcanized with EPDM rubber
- Stainless steel gland flange, stem and bolts for increased corrosion resistance
- Gland flange removable under pressure for replacement of thrust bearing and seals
- Three independent stem seals; a metal reinforced wiper ring protects against external dust, o-rings protect the bearings with the major seal to flow being an EPDM o-ring
- Round bonnet gasket fixed in a recess to prevent blow out under pressure
- Counter-bored stainless steel bonnet bolts sealed with hot-melt glue and integral o-rings of the bonnet gasket
- Full bore
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020

### Accessories:

- Anchor legs for DN100 & DN150 only, ordered separately
- Handwheel (S570/58)
- ISO Mounting flange for gearbox/actuation (S570/52)



Anchor legs  
DN100 & DN150 only

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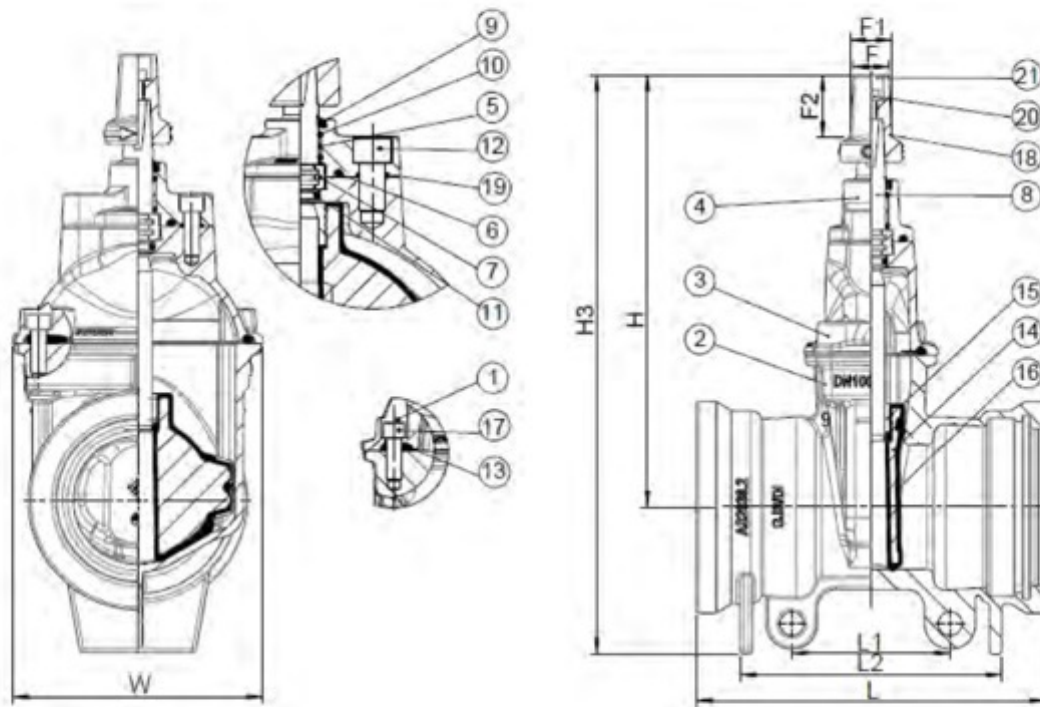
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**AVK GATE VALVE, RESILIENT SEATED, PN16  
ACC, Stem Cap, Socket ends, DN80 - DN375**

**570/50-002**



**Component list**

1. Hot melt seal			with hot melt glue
2. Body	Ductile Iron, 500-7 to AS 1831	13. Bonnet gasket	EPDM rubber
3. Bonnet	Ductile Iron, 500-7 to AS 1831	14. Wedge	Ductile Iron, 500-7 to AS 1831
4. Gland flange	Stainless Steel CF8M	15. Wedge nut	Dezincification resistant brass, CZ 132 to AS 2345
5. Bushing	Polyamide	16. Wedge rubber	EPDM
6. O-ring	NBR	17. Bolt socket	Stainless Steel 316, fully encapsulated with hot melt glue
7. Thrust collar	Dezincification resistant brass, CZ 132 to AS 2345	18. Stem cap	Ductile Iron, 500-7 to AS 1831, 35mm cap square
8. Stem	Stainless Steel 431	19. O-ring	NBR
9. Wiper ring	NBR	20. Bolt socket	Stainless Steel 316
10. O-ring	NBR	21. Stem cap insert	Plastic
11. O-ring	NBR		
12. Bolt socket	Stainless Steel 316, fully encapsulated		

Components can be substituted with equivalent or higher class materials.

**Reference nos. and dimensions:**

AVK ref. no.	DN mm	L mm	L1 mm	L2 mm	W mm	H mm	H3 mm	F mm	F1 mm	F2 mm	Theoretical weight/kg
570-080-50-3940120	80	252	-	132	174	324	393	28.5	33.5	50	13
570-100-50-3940120	100	280	126	210	195	347	465	28.5	33.5	50	17
570-150-50-3940120	150	304	126	213	275	429	574	28.5	33.5	50	31
570-200-50-3940120	200	396	-	206	335	563	707	27.8	33.5	57	53
570-225-50-3940120	225	450	-	250	422	643	801	27.8	33.5	57	84
570-250-50-3940120	250	466	-	256	422	656	828	27.8	33.5	57	87
570-300-50-3940120	300	488	-	278	452	739	942	27.8	33.5	57	117
570-375-50-3940120	375	560	-	292	564	917	1166	27.8	33.5	57	223

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## AVK RESILIENT SEATED GATE VALVE, PN16

570/51-002

Socket ends to AS/NZS 2280, stem cap, ACC

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

### Product description:

Socket gate valve for water, sewage and neutral liquid applications to max. 70°C. For AS 4020 compliance, max temp 40°C.

### Design standards:

- AS/NZS 2638.2
- Socket ends to AS/NZS 2280
- Coating to AS/NZS 4158
- Valves comply with AS/NZS 4020

### Test/Approvals:

- Hydraulic test according to AS/NZS 2638.2
- Hydraulic pressure test: seat 17.6 bar / shell 24 bar
- StandardsMark approved to AS/NZS 2638.2
- WaterMark approved to AS/NZS 2638.2
- ISO 9001 certified - SAI Global Quality
- ISO 14001 certified - SAI Global Environment

### Features:

- Wedge nut designed as a fixed, integral part of the wedge which prevents vibration and ensures durability
- Wedge fully vulcanized with drinking water approved EPDM rubber
- Wedge shoes in PA and guide rails on the body make the wedge slide easily up and down, even with high differential pressure
- A large conical stem hole going all the way through the wedge ensures circulation and prevents stagnant water
- Full circle thrust collar keeps the stem firmly lined up and ensures low operating torque
- Stainless steel stem and bolts for increased corrosion resistance
- Seal housing incorporates inner/outer O-ring seals and wiper ring for long life operation
- Stem sealing replaceable under pressure
- Bonnet gasket with a circular cross-section and fixed in a recess to avoid blow-out
- Counterbored stainless steel A4 bonnet bolts, sealed with hot-melt and encircled by the bonnet gasket
- Full bore
- Blue fusion bonded epoxy according to AS4158

### Accessories:

- Anchor legs (DN100 & DN150 only)
- Handwheel



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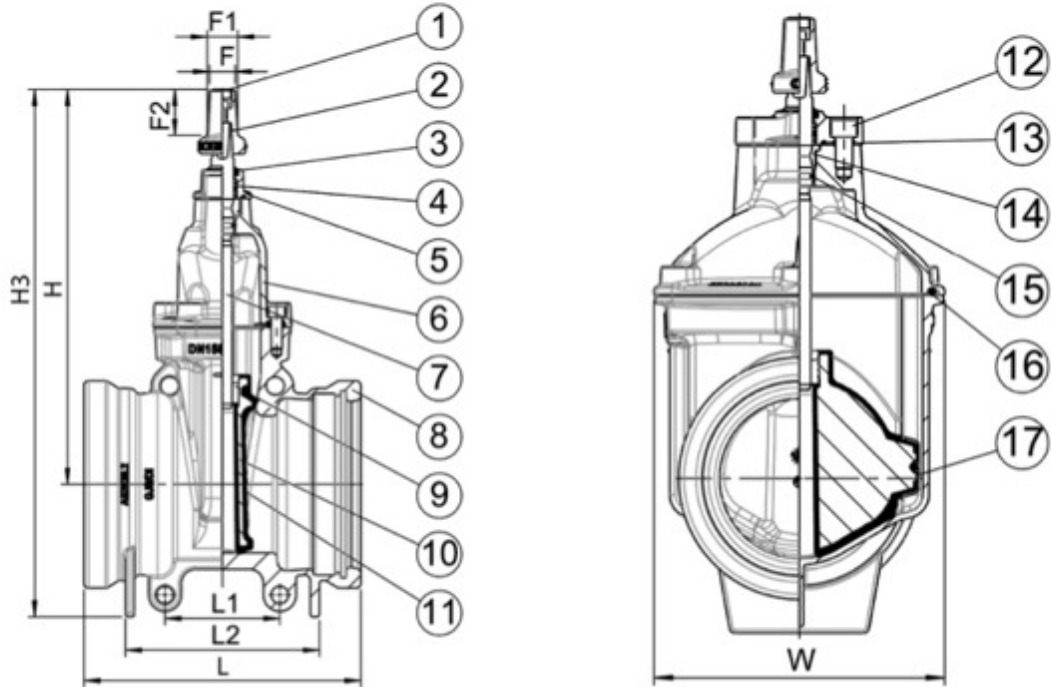
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**AVK RESILIENT SEATED GATE VALVE, PN16**  
 Socket ends to AS/NZS 2280, stem cap, ACC

570/51-002



**Component list:**

1. Insert	Plastic	10. Wedge body	Ductile iron GJS-500-7
2. Stem cap	Ductile iron GJS-500-7	11. Wedge rubber	EPDM rubber
3. Wiper ring	NBR rubber	12. Bolt	Stainless steel A4-70
4. Seal retainer	Bronze CC491K	13. Gland gasket	NBR rubber
5. Gland flange	Ductile iron GJS-500-7	14. Thrust collar	Brass DZR CW724R
6. Bonnet	Ductile iron GJS-500-7	15. O-ring	EPDM rubber
7. Stem	Stainless steel 1.4057	16. Bonnet gasket	EPDM rubber
8. Body	Ductile iron GJS-500-7	17. Wedge shoe	PA 6.6
9. Wedge nut	Brass DZR CW724R		

Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN	DP Nom. O.D.	L	L1	L2	W	H	H3	F	F1	F2	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
570-080-51-3940120	80	94-97	252	-	132	173	307	376	28.5	33.5	50	13
570-100-51-3940120	100	120-123	280	126	210	194	328	446	28.5	33.5	50	16
570-150-51-3940120	150	175-178	304	126	213	274	434	579	28.5	33.5	50	30
570-200-50-3940120	200	230-233	396	-	206	334	568	714	27.8	33.5	57	51
570-225-51-3940120	225	257-260	450	-	250	422	651	809	27.8	33.5	57	82
570-250-51-3940120	250	284-287	466	-	256	422	664	836	27.8	33.5	57	85
570-300-51-3940120	300	343-346	488	-	278	452	746	949	27.8	33.5	57	116

The designs, materials and specifications shown are subject to change without notice due to the continuous development of our product range.

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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, Spigot ends, DN80-DN300**

**570/60-002**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

**Product description:**

Gate valve for drinking water and neutral liquids to max. 70°C. For AS 4020 compliance, max temp 40°C.

**Standards:**

- Designed to: AS/NZS 2638.2
- Spigot ends to AS/NZS 2280 Figure J23

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 2 x PN (in bar). Operation torque test.
- StandardsMark and WaterMark approved to AS/NZS 2638.2

**Features:**

- Fixed, integral wedge nut prevents vibration
- Ductile iron wedge, fully vulcanized with EPDM rubber
- Stainless steel gland flange, stem and bolts for increased corrosion resistance
- Seal housing incorporates o-rings for sealing and a metal reinforced wiper ring for protection against external dust
- Stem sealing replaceable under pressure
- Round bonnet gasket fixed in a recess to prevent blow-out, with integral bolt sealing
- Counterbored stainless steel bonnet bolts encircled by the bonnet gasket and sealed with hotmelt glue
- Full bore
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020

**Accessories:**

- Handwheel



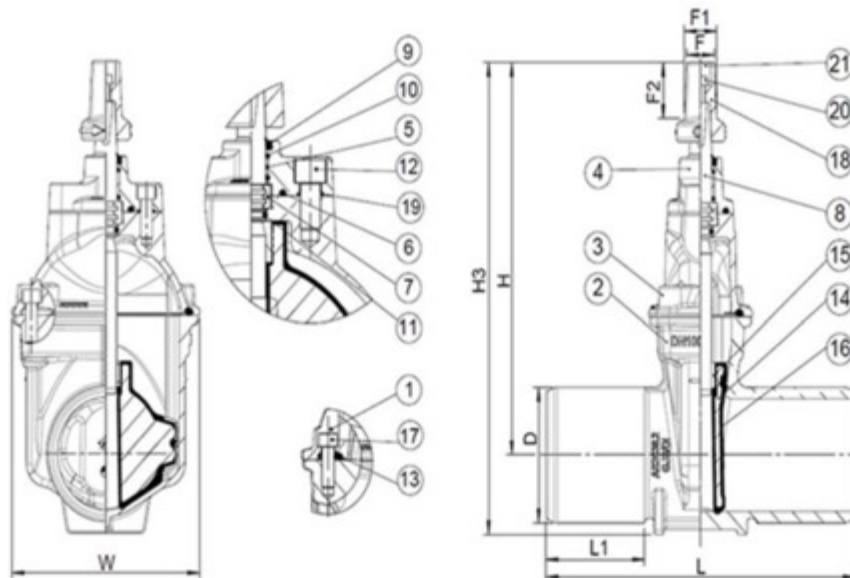
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**AVK GATE VALVE, RESILIENT SEATED, PN16  
ACC, Stem Cap, Spigot ends, DN80-DN300**

**570/60-002**



**Component list:**

1. Seal	Stainless steel A4-70	12. Bolt	Stainless steel A4-70
2. Body	Ductile iron GJS-500-7 (GGG-50)	13. Bonnet gasket	EPDM rubber
3. Bonnet	Ductile iron GJS-500-7 (GGG-50)	14. Wedge core	Ductile iron GJS-500-7 (GGG-50)
4. Gland flange	Stainless steel 1.4408	15. Wedge nut	Brass, DZR CW602N
5. Bushing	PA 6.6	16. Wedge rubber	EPDM rubber
6. O-ring	NBR rubber	17. Bolt	Stainless steel A4-70
7. Thrust collar	Brass, DZR CW602N	18. Stem Cap	Ductile iron GJS-500-7 (GGG-50)
8. Stem	Stainless steel 1.4057 (431)	19. O-ring	NBR rubber
9. Wiper ring	NBR rubber	20. Bolt, socket head	Stainless steel 316
10. O-ring	NBR rubber	21. Stem Cap	Plastic
11. O-ring	NBR rubber		

Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN	D	H	H3	L	L1	W	F	F1	F2	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
570-080-60-3940120	80	94.5	324	378	280	89	173	29	34	50	12
570-100-60-3940120	100	121	347	417	320	102	194	29	34	50	16
570-150-60-3940120	150	176	430	527	360	102	274	29	34	50	32
570-200-60-3940120	200	231	560	685	420	115	334	28	34	57	55
570-225-60-3940120	225	256	625	773	448	115	422	28	34	57	93
570-250-60-3940120	250	285	660	812	448	115	422	28	34	57	88
570-300-60-3940120	300	344	735	926	460	115	452	28	34	57	123

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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, Socket x Flange, DN80-DN150**

**570/70-002**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

**Product description:**

Gate valve for drinking water and neutral liquids to max. 70°C. For AS 4020 compliance, max temp 40°C.

**Standards:**

- Designed to: AS/NZS 2638.2
- Socket end to: AS/NZS 2280
- Flange Drilling to: AS/NZS 4087 B5

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 2 x PN (in bar). Operation torque test.
- StandardsMark and WaterMark approved to AS/NZS 2638.2

**Features:**

- Fixed, integral wedge nut prevents vibration
- Ductile iron wedge, fully vulcanized with EPDM rubber
- Stainless steel gland flange, stem and bolts for increased corrosion resistance
- Seal housing incorporates o-rings for sealing and a metal reinforced wiper ring for protection against external dust
- Stem sealing replaceable under pressure
- Round bonnet gasket fixed in a recess to prevent blow-out, with integral bolt sealing
- Counterbored stainless steel bonnet bolts encircled by the bonnet gasket and sealed with hotmelt glue
- Full bore
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020

**Accessories:**

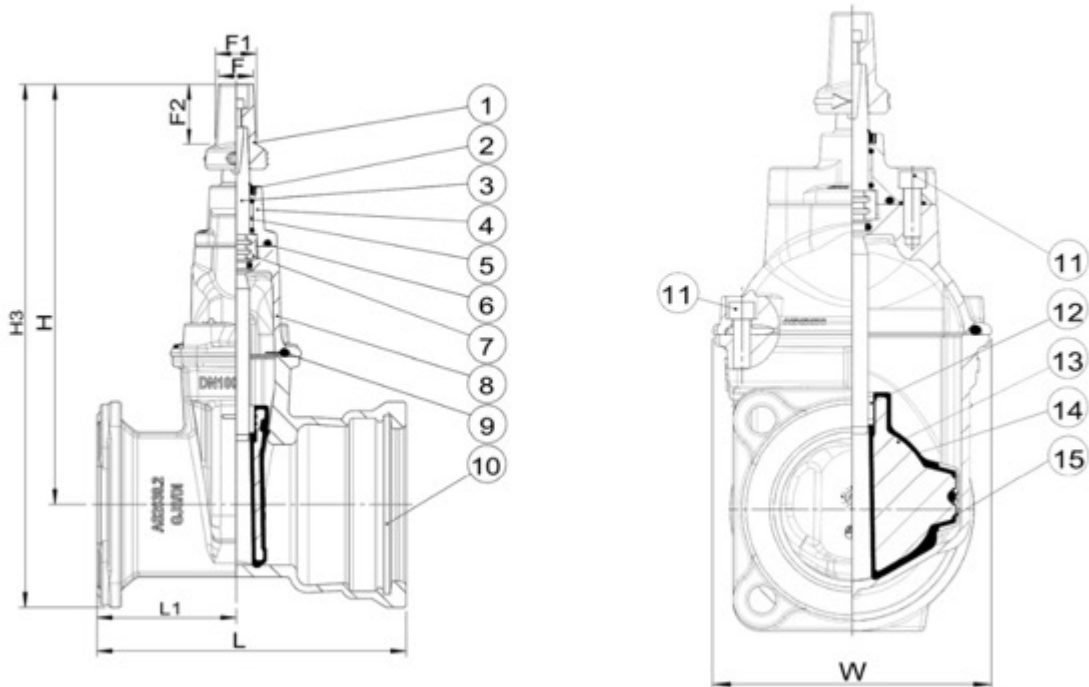
- Handwheel



The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product programme.

**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, Socket x Flange, DN80-DN150**

**570/70-002**



**Component list:**

1. Stem Cap	Ductile iron GJS-500-7 (GGG-50)	9. Bonnet gasket	EPDM rubber
2. Wiper ring	NBR rubber	10. Body	Ductile iron GJS-500-7 (GGG-50)
3. Stem	Stainless steel 1.4057 (431)	11. Bolt	Stainless steel A4-70
4. Gland flange	Stainless steel 1.4408	12. Wedge nut	Brass, DZR CW602N
5. Bushing	PA 6.6	13. Wedge core	Ductile iron GJS-500-7 (GGG-50)
6. O-ring	NBR rubber	14. Wedge rubber	EPDM rubber
7. Thrust collar	Brass, DZR CW602N	15. Wedge shoe	PA 6.6
8. Bonnet	Ductile iron GJS-500-7 (GGG-50)		

Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN	L	L1	W	H	H3	F	F1	F2	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
570-080-70-3540120	80	227.5	101.5	174	324	397	28.5	33.5	50	13
570-100-70-3540120	100	254.5	114.5	195	347	432	28.5	33.5	50	16
570-150-70-3540120	150	285.5	133.5	275	429	563	28.5	33.5	50	32

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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, SDR11 PE100 Pipe Ends of OD90-OD315**

**36/20-003**



AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.



**Product description:**  
 Gate valve fitted with PE 100 pipe for water, sewage and neutral liquid applications to max. 70°C. For AS/NZS 4020 compliance, max temp 40°C.

- Standards:**
- Designed to: AS/NZS 2638.2
- Test/Approvals:**
- Connection certified to AS/NZS 4129
  - Seat: 1.1 x PN (in bar), Body: 2 x PN (in bar). Operation torque test.
  - StandardsMark approved to AS/NZS 4129
  - WaterMark approved to AS/NZS 4129

- Features:**
- Fixed, integral wedge nut prevents vibration
  - Ductile iron wedge, fully vulcanized with EPDM rubber
  - Stainless steel gland flange, stem and bolts for increased corrosion resistance
  - Seal housing incorporates o-rings for sealing and a metal reinforced wiper ring for protection against external dust
  - Stem sealing replaceable under pressure
  - Round bonnet gasket fixed in a recess to prevent blow out, with integral bolt sealing
  - Counter bored stainless steel bonnet bolts encircled by the bonnet gasket and sealed with hot melt glue
  - Full bore
  - Epoxy coating to AS/NZS 4158
  - Approved to AS/NZS 4020
  - PE pipe is pressed onto the grooved valve end, locked with a steel ring and sealed with a plastic shrink wrap for corrosion protection
  - StandardsMark and WaterMark approved to AS/NZS 4129

- Accessories:**
- Handwheel

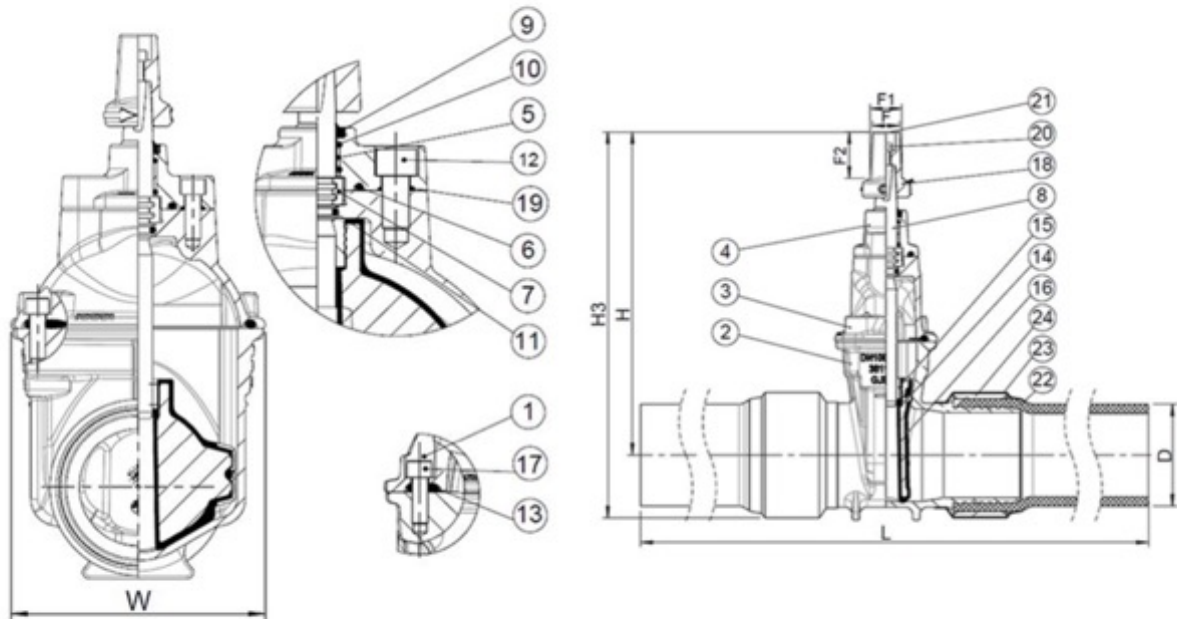


Expect... **AVR**

The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product range.

**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, Stem Cap, SDR11 PE100 Pipe Ends of OD90-OD315**

**36/20-003**



**Component list:**

1. Stem Cap	Ductile iron GJS-500-7 (GGG-50)	13. Bonnet gasket	EPDM rubber
2. Body	Ductile iron GJS-500-7 (GGG-50)	14. Wedge	Ductile iron GJS-500-7
3. Bonnet	Ductile iron GJS-500-7 (GGG-50)	15. Wedge nut	Brass, DZR CW602N
4. Gland flange	Stainless steel 1.4408	16. Wedge rubber	EPDM rubber
5. Bushing	PA 6.6	17. Bolt, socket head	Stainless steel 316
6. O-ring	NBR rubber	18. Stem Cap	Ductile iron GJS-500-7
7. Thrust collar	Brass, DZR CW602N	19. O-ring	NBR rubber
8. Stem	Stainless steel 1.4057 (431)	20. Bolt, socket head	Stainless steel 316
9. Wiper ring	NBR rubber	21. Stem Cap	Plastic
10. O-ring	NBR rubber	22. Pipe	PE 100
11. O-ring	NBR rubber	23. Shrink hose	
12. Bolt	Stainless steel A4-70	24. Sleeve	Mild steel

Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN	D	L	W	H	H3	F	F1	F2	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
36-090-20-483512	80	90	888	174	324	382	28.5	33.5	50	13
36-110-20-483512	100	110	741	195	347	417	28.5	33.5	50	18
36-125-20-483512	125	125	1091	222	391	476	28.5	33.5	50	24
36-140-20-483512	125	140	875	222	391	476	28.5	33.5	50	27
36-160-20-483512	150	160	1060	275	429	528	28.5	33.5	50	40
36-180-20-483512	150	180	1057	275	429	537	28.5	33.5	50	38
36-200-20-483512	200	200	1077	335	561	686	27.8	33.5	57	66
36-225-20-483512	200	225	1077	335	561	695	27.8	33.5	57	74
36-250-20-483512	250	250	1350	422	656	808	27.8	33.5	57	101
36-280-20-483512	250	280	1350	422	656	817	27.8	33.5	57	123
36-315-20-483512	300	315	1316	452	739	930	27.8	33.5	57	172

The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product range.



**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, ISO Mounting Flange, AS/NZS 4087 B5, By-Pass, DN450-DN750**

**570/42-004**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features an outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple stem seal system, the high strength stem and the thorough corrosion protection safeguard the unmatched reliability.

**Product description:**

Gate valve for drinking water and neutral liquids to max. 70°C. For AS/NZS 4020 compliance, max temp 40°C.

**Standards:**

- Designed to: AS/NZS 2638.2
- Face to face: AS/NZS 2638.2
- Flange drilling to AS/NZS 4087 B5

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test.
- StandardsMark and WaterMark approved to AS/NZS 2638.2

**Features:**

- Fixed, integral wedge nut prevents vibration
- Polyamide wedge shoes protect the wedge rubber during opening and closing
- Stainless Steel stem with wedge stop
- Ductile Iron wedge, fully vulcanised with EPDM rubber
- Stainless Steel gland flange, stem and bolts for increased corrosion protection
- Three independent stem seals: a metal reinforced wiper ring protects against external dust, o-rings protect the radial bearing with the major seal to flow being an EPDM o-ring
- Thrust bearing consisting of a series of stainless steel washers covered with a layer of PTFE coated bronze ensures low operating torque
- Removable gland flange for under pressure replacement of thrust bearings and seals
- Round bonnet gasket fixed in a recess to prevent blow-out under pressure
- Counterbored stainless steel A4 bonnet bolts sealed with hotmelt glue and integral o-rings of the bonnet gasket
- Full bore
- Integrated lifting eyes for easy handling
- ISO Mounting Flange = F16/14 for DN450-600 and F16 for DN750 valves
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020

**Accessories:**

Gearbox / Actuator



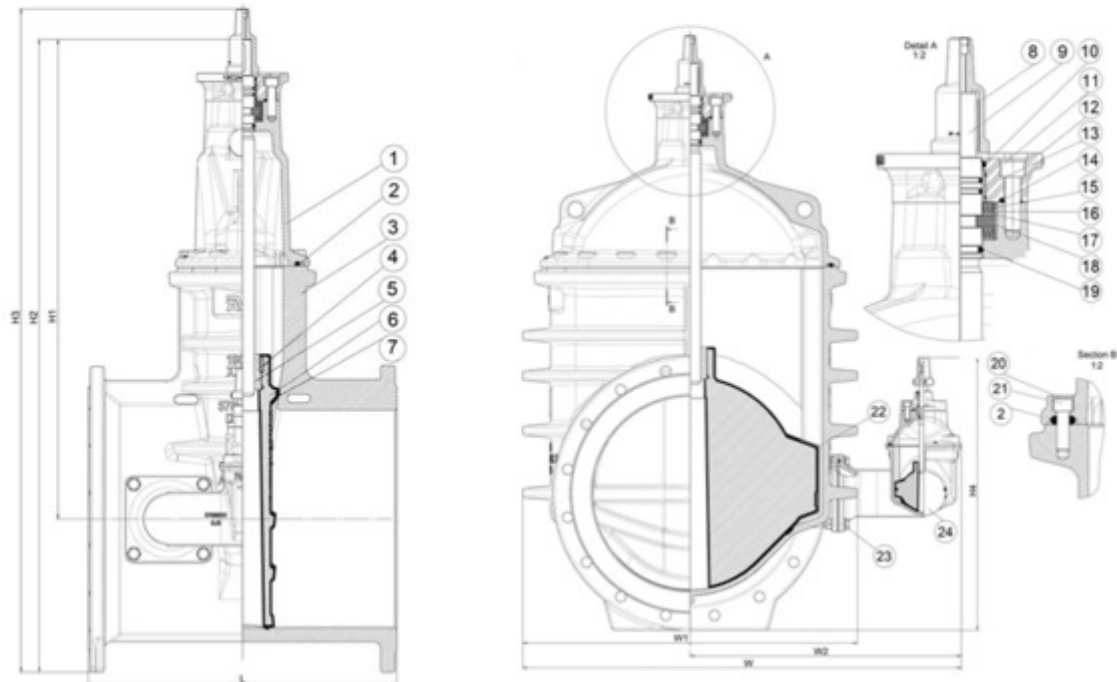
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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**ACC, ISO Mounting Flange, AS/NZS 4087 B5, By-Pass, DN450-DN750**

**570/42-004**



**Component list:**

1. Bonnet	Ductile iron GJS-500-7	13. Radial bearing	Bronze CC491K
2. Bonnet gasket	EPDM rubber	14. O-ring	NBR rubber
3. Body	Ductile iron GJS-500-7	15. Bushing	Polyamide
4. Lock pin	Steel	16. Thrust bearing	CSB
5. Wedge nut	Brass, DZR CZ132	17. Support washer	Stainless steel 1.4057
6. Wedge rubber	EPDM rubber	18. Thrust collar	Stainless steel 1.4057
7. Wedge core	Ductile iron GJS-500-7	19. Stem seal	EPDM rubber
8. Stem Cap	Ductile iron GJS-500-7	20. Seal	Hot melt glue
9. Stem	Stainless steel 1.4057	21. Bonnet bolt	Stainless steel A4
10. Wiper ring	NBR rubber	22. Wedge shoe	Polyamide
11. Gland flange bolt	Stainless steel A4	23. Bolt	Stainless steel A4
12. Gland flange (1)	Stainless Steel / Ductile Iron	24. By-Pass valve	Ductile iron GJS-500-7

(1) DN450-600 is Stainless Steel, DN750 is DI  
 Components may be substituted with equivalent or higher class materials without prior notification.

**Reference nos. and dimensions:**

AVK ref. no.	DN	H1	H2	H3	H4	L	W	W1	W2	By-pass	Theoretical
	mm	mm	mm	mm	mm	mm	mm	mm	mm	DN	weight/kg
570-450-42-3540120031	450	1077	1397	1467	693	660	1130	860	697	100	572
570-450-42-3540120039	450	1077	1397	1467	776	660	1170	860	737	150	596
570-500-42-3540120031	500	1105	1457	1527	701	710	1130	860	697	100	614
570-500-42-3540120039	500	1105	1457	1527	783	710	1170	860	737	150	632
570-600-42-3540120031	600	1244	1656	1726	761	785	1250	969	797	100	826
570-600-42-3540120039	600	1244	1656	1726	843	785	1290	969	807	150	844
570-750-42-354012C039	750	1698	2196	2268	987	950	1658	1254	1031	150	2547

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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**CC, Handwheel, AS/NZS 4087 B5, OS&Y, DN80 - DN300**

**570/96-001**

AVK gate valves are designed with built-in safety in every detail. The wedge is fully vulcanized with AVK's own drinking water approved EPDM rubber compound. It features outstanding durability due to the ability of the rubber to regain its original shape, the double bonding vulcanization process and the sturdy wedge design. The triple safety stem sealing system, the high strength stem and the thorough corrosion protection safeguard the valves unmatched reliability.

**Product description:**

Flanged gate valve, OS&Y with handwheel, for drinking water and neutral liquids to max. 70°C. For AS/NZS 4020 compliance, max temp 40°C.

**Standards:**

- Designed to: AS/NZS 2638.2
- Face to face: AS/NZS 2638.2
- Flange drilling: AS/NZS 4087 B5

**Test/Approvals:**

- Hydraulic test according to AS/NZS 2638.2
- Seat: 1.1 x PN (in bar), Body: 2 x PN (in bar). Operation torque test.
- StandardsMark & WaterMark approved to AS/NZS 2638.2
- SSL / Active Fire Listed for Approved Fire Service use

**Features:**

- Ductile iron wedge fully vulcanized with drinking water approved EPDM, and fitted with polyamide wedge shoes to provide smooth operation
- Outside yoke and rising stem for clear indication of valve status at a distance
- Brass stem nut and bronze thrust washers
- Stem seal consisting of three O-rings
- Round bonnet gasket fixed in a recess to prevent blow out under pressure
- Counter-bored stainless steel bonnet bolts sealed with hot-melt glue and integral o-rings of the bonnet gasket
- Full bore
- Epoxy coating to AS/NZS 4158
- Approved to AS/NZS 4020



Expect... **AVK**

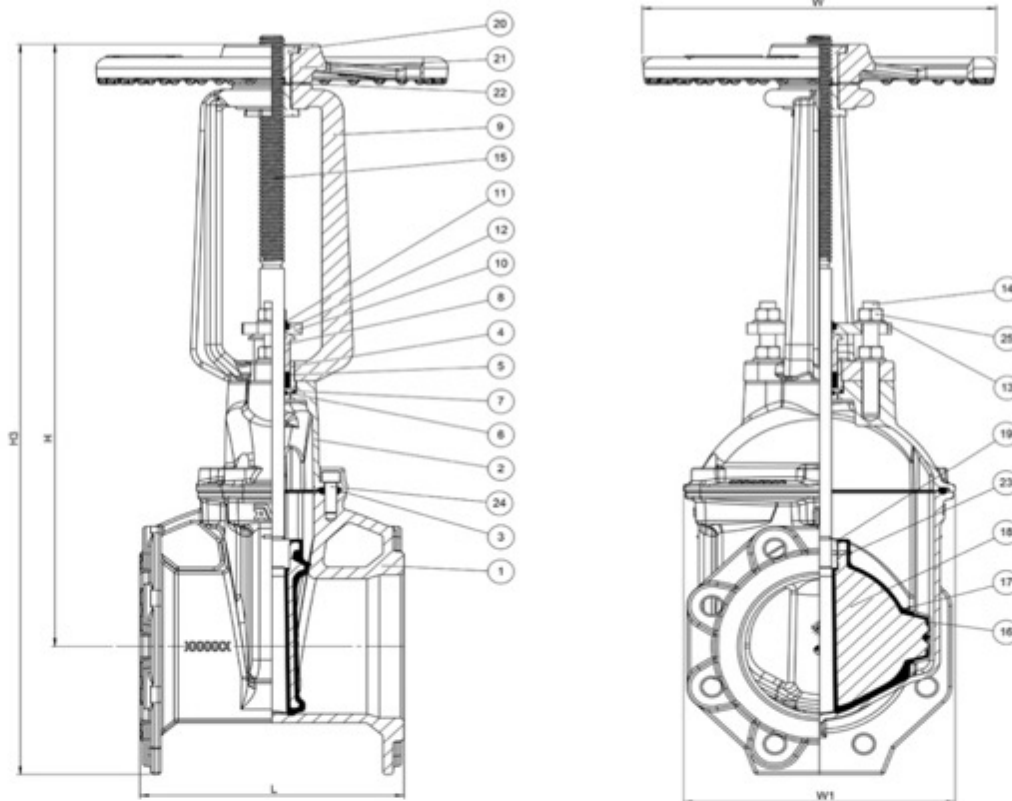
The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product programme.

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**AVK GATE VALVE, RESILIENT SEATED, PN16**  
**CC, Handwheel, AS/NZS 4087 B5, OS&Y, DN80 - DN300**

**570/96-001**



**Component list:**

1. Body	Ductile Iron 500-7	14. Stud Bolt	Stainless Steel A4-70
2. Bonnet	Ductile Iron 500-7	15. Stem	Stainless Steel 316
3. Bonnet Gasket	EPDM	16. Wedge Shoe	Polyamide
4. Bushing	DZR Brass - CW602N	17. Wedge Rubber	EPDM
5. Stem Seal	NBR	18. Wedge Body	Ductile Iron 500-7
6. O-Ring	NBR	19. Wedge Nut	DZR Brass - CW602N
7. O-Ring	NBR	20. Stem Nut	Copper Alloy C35330
8. Packing Gland	DZR Brass - CW602N	21. Handwheel	Ductile Iron 500-7
9. Yoke	Ductile Iron 500-7	22. Washer	Copper Alloy C83600
10. Gland Follower	Stainless Steel - 316	23. Pin	Stainless Steel - 316
11. Wiper Ring	NBR	24. Bolt	Stainless Steel A4-70
12. Wiper Core	Stainless Steel - 316	25. Nut	Stainless Steel A4-70
13. Washer	Stainless Steel A4-70		

Components can be substituted with equivalent or higher class materials.

**Reference nos. and dimensions:**

AVK ref. no.	DN	L	H	H3	W	W1	Theoretical weight/kg
	mm	mm	mm	mm	mm	mm	
570-080-96-0540120	80	203	454	527	254	174	19
570-100-96-0540120	100	229	473	556	254	195	22
570-150-96-0540120	150	267	671	813	356	275	46
570-200-96-0540120	200	292	761	925	356	335	64
570-225-96-0540120	225	305	957	1141	458	422	112
570-250-96-0540120	250	330	970	1171	458	422	118
570-300-96-0540120	300	356	1052	1279	458	452	150

The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product programme.

## APPENDIX B - QUALITY CERTIFICATIONS

Copies of Quality Certificates are available from WSAA.

**TABLE B1  
AVK AUSTRALIA HOLDING PTY LTD – MANAGEMENT SYSTEMS**

559A Grand Junction Road, Wingfield, SA	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	QEC13894
Certifying Agency	SAI-Global
First Date of Certification	30 April 2001
Current Date of Certification	10 February 2021
Expiry Date of Certification	14 February 2024

**TABLE B2  
AVK VALVES (ANHUI) CO LTD – MANAGEMENT SYSTEMS**

Wujiang Industrial Park Hexian Ma'anshan City Anhui China	
Quality Systems Standard	ISO 9001:2015
Certification Licence No.	FM 84039
Certifying Agency	BSI
First Date of Certification	9 July 2004
Current Date of Certification	8 October 2021
Expiry Date of Certification	7 October 2024

**TABLE B3  
AVK AUSTRALIA HOLDING PTY LTD – PRODUCT CERTIFICATION**

559A Grand Junction Road, Wingfield, SA.	
Product Standard/Spec.	AS/NZS 2638.2:2011
Certificate No.	SMK02420
Issuing Certification Body	SAI-Global
First Date of Certification	9 May 2000
Current Date of Certification	5 August 2022
Expiry Date of Certification	9 December 2024



# CERTIFICATE OF REGISTRATION

This is to certify that:

## AVK Australia Holding Pty Ltd

ABN 11 081 236 777

**AVK Valves Pty Ltd**

ABN 25 615 247 544

**AVK Flow Control Pty Ltd**

ABN 80 153 707 398

**AVK CTS Pty Ltd**

**Trading as Complete Tapping Service**

ABN 59 621 126 207

**AVK Wang Pty Ltd**

ABN 29 605 784 343

**AVK Currumbin Pty Ltd**

ABN 24 615 602 250

559A Grand Junction Road Wingfield SA 5013 AUSTRALIA

(Refer to Attachment to Certificate of Registration dated 12 February 2021 for additional certified sites)

operates a

### QUALITY MANAGEMENT SYSTEM

which complies with the requirements of

**ISO 9001:2015**

for the following scope

The manufacture, marketing and sale of valves and associated products including stainless steel pipe couplings, tapping saddles and flange off take clamps and the provision of under pressure tapping, line stopping and valve insertion services.

**Certificate No: QEC13894**

Issued: 12 February 2021

Originally Certified: 30 April 2001

Expires: 14 February 2024

Current Certification: 10 February 2021

Frank Camasta  
Global Head of Technical Services  
SAI Global Assurance



ISO 9001



[WWW.JAS-ANZ.ORG/REGISTER](http://WWW.JAS-ANZ.ORG/REGISTER)

**Registered by:**

SAI Global Certification Services Pty Ltd (ACN 108 716 669) 680 George Street Sydney NSW 2000 Australia with SAI Global Pty Limited 680 George Street Sydney NSW 2000 Australia ("SAI Global") and subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. To verify that this certificate is current please refer to SAI Global On-Line Certification register at <http://register.saiglobal.com/>






# Certificate of Registration

质量管理体系 - ISO 9001:2015

兹证明：  
埃维柯阀门（安徽）有限公司  
91340500730038975J  
中国  
安徽省  
马鞍山市  
和县  
乌江工业园区  
邮编：238251

AVK Valves (Anhui) Co., Ltd.  
Wujiang Industrial Park  
He County  
Ma'anshan  
Anhui  
238251  
China

持有证书：**FM 84039**

并运行符合 ISO 9001:2015 要求的质量管理体系，认证范围如下：

用于供水、污水处理、消防和供气的阀门及其附件的制造。  
The manufacture of valves and accessories for water supply, sewage treatment, firefighting and gas supply.

BSI代表：



Chris Cheung, 亚太地区 合规风险主管

首次发证日期：2004-07-09

生效日期：2021-10-08

最新发证日期：2021-09-14

有效期至：2024-10-07

Page: 1 of 1



...making excellence a habit.™

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打印的证书可以通过网站 <http://www.bsi-global.com/ClientDirectory> 或者致电 +86 10 8507 3000 查询。本证书信息亦可在国家认证认可监督管理委员会官方网站 ([www.cnca.gov.cn](http://www.cnca.gov.cn)) 上查询。

关于证书范围及 ISO 9001:2015 要求的适用性的进一步说明请咨询BSI。

获证组织必须定期接受监督审核并经审核合格此证书方继续有效。

此证书只在提供完整正本时才有效。

信息查询及联系方式：BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. 电话：+44 345 080 9000

BSI保证英国有限公司，注册地英国，注册号码7805321，地址：389 Chiswick High Road, London W4 4AL, UK

英标管理体系认证（北京）有限公司 北京市建国门外大街甲24号东海中心2008室 邮编：100004 电话：+86 10 85073000

BSI集团公司成员。

A copy of the product schedule can be obtained from WSAA, AVK or downloaded from the SAI-Global website at the following link:

<https://register.saiglobal.com/client/schedule.aspx?setID=SF01&custID=AS010846&appCertNo=SMK02420>



# STANDARDSMARK LICENCE

SAI Global hereby grants:

## AVK Australia Holding Pty Ltd

ABN 11 081 236 777

559A Grand Junction Road, Wingfield, SA 5013, Australia

### StandardsMark Licence

Manufactured to:

**AS/NZS 2638.2:2011 - Gate valves for waterworks purposes - Resilient seated**

**& AS/NZS 2638.1:2011 - Gate valves for waterworks purposes - Metal seated**

"the StandardsMark Licensee" the right to use the STANDARDSMARK as shown below only in respect of the goods described and detailed in the Schedule which are produced by the Licensee or on behalf of the Licensee\* and which comply with the appropriate Standard referred to above as from time to time amended. The Licence is granted subject to the rules governing the use of the STANDARDSMARK and the Terms and Conditions for certification and licence. The Licensee covenants to comply with all the Rules and Terms and Conditions.

**Licence No:** SMK02420

**Issued :** 5 August 2022

**Expires :** 9 December 2024

**Originally Certified :** 9 May 2000

**Current Certification :** 5 August 2022

Calin Moldovean  
President, Business Assurance  
SAI Global Assurance



\* For details of manufacture, refer to the licensee

The STANDARDSMARK is a registered certification trademark of SAI Global Pty Limited (A.C.N. 050 644 642) and is issued under licence by SAI Global Certification Services Pty Limited (ACN 108 716 669) ("SAI Global") 650 Lorimer Street, Port Melbourne VIC 3207, GPO Box 5420 Sydney NSW 2001. This certificate remains the property of SAI Global and must be returned to SAI Global upon its request. Refer to [www.saiglobal.com](http://www.saiglobal.com), for the list of product models.



## **APPENDIX C - SUPPLIER CONTACTS**

### **AVK AUSTRALIA HOLDING PTY LTD**

559A Grand Junction Road, Wingfield, SA

Tel: (08) 8368 0900

Email: [enquiries@avkau.com.au](mailto:enquiries@avkau.com.au)

Website: <https://www.avkcivil.com.au/en-au>



**Melbourne Office**

Level 8, Suite 8.02  
401 Docklands Drive  
Docklands VIC 3008

**Sydney Office**

Level 9 420 George Street  
Sydney NSW 2000  
GPO Box 915  
Sydney NSW 2001

P +61 (0) 3 8605 7666  
email: [info@wsaa.asn.au](mailto:info@wsaa.asn.au)

[www.wsaa.asn.au](http://www.wsaa.asn.au)