



INDUSTRIAL MINING SOLUTIONS



SOUTHERN AFRICA

AVK PRODUCTS MEET LOCAL MINING SOLUTIONS IN SOUTH AFRICA



The mining sector accounts for a major portion of the country's earnings of foreign exchange and continues to attract valuable foreign direct investment to the rainbow nation.

Major mining sectors in Southern Africa include coal, platinum, gold, copper, zinc, manganese, diamonds and iron ore. For AVK, there is always an opportunity to deliver more than just products but collaborative solutions to the Southern African mining industry.

WHO WE ARE

AVK Southern Africa (AVK SA) is situated in a well secured, 46000 sqm corner site in Alrode, Gauteng, South Africa and easily accessible from the R59 highway. As part of the global AVK Group that manufacture and supplies in countries worldwide, this is a privately-owned company and Africa's leading manufacturer of valves, hydrants and accessories.

Specialising in water and industrial applications, AVK SA has strengthened its commitment to offer more local content within its existing product program, offering local content up to 100% for certain products and meeting the 70% minimum local content requirements with ease.

Recognising compliance to the Mining Charter and local content designation is an unquestionable priority for AVK SA. Home to a modern corporate office, dedicated distribution center based in Gauteng and Cape Town, a professional in-house training facility that supports skills transfer programs, ensures the Sales, Distribution, After Sales and Refurbishment service of the AVK products brands.



AVK PRODUCTS ARE BOTH LOCALLY MANUFACTURED AND LOCALLY ASSEMBLED



Series 43/60
Resilient Seated
Ductile iron wedge
Fully vulcanised
Stainless steel stem
Locally manufactured



Series 21/89
Resilient Seated
Flanged with rising stem
Ductile iron wedge
Fully vulcanised
Locally assembled



Series 32/82
Ductile iron body and bonnet
Ductile iron wedge
Fully vulcanised with EPDM
Includes spigot ends suitable for asbestos cement pipes to SABS 664-1889
Locally assembled



Series 820
Wafer
Ductile iron
Long neck for insulation
Available in lugged and u-section types
Locally assembled



Series 41/60
Resilient seated swing check
Prepared for lever
Ductile iron body
Free shaft end
Locally manufactured



Series 53/35
Ball valve with flanged ends
Ductile iron body
Aluminium ball (vulcanised) with NBR rubber (DN50 – DN100)
Grey cast iron ball (vulcanised) with NBR rubber (DN150 – DN300)
Locally manufactured
PU balls in various weights available upon request



Series 910/21 Y-Strainer
Ductile iron body and lid
"The position of the drain plug enables full drainage without removing the lid"
"Fusion bonded epoxy coating according to DIN 30677-2, GSK approved"
PN16



Series 910/11 Y-Strainer
Ductile iron body and lid
"The position of the drain plug enables full drainage without removing the lid"
"Fusion bonded epoxy coating according to DIN 30677-2, GSK approved"
PN25

PREMIER VALVES AND GUNRIC VALVES – YOUR TRUSTED LOCAL BRANDS



Butterfly valves are used extensively in all types of mining applications globally, where valve performance is required to handle the challenges of isolating and flow control applications.



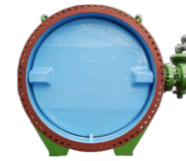
AVK Southern Africa's product brands, Premier Valves and Gunric Valves, offer product ranges that can be customised to provide the required valve materials to meet the specific requirements of the demanding flow applications in the mining industry. Gunric's triple eccentric butterfly valves incorporating tri-centric sealing geometry provides bubble tight shut-off within a wide range of temperatures and pressures. The seal is held in position by a bolt-on retaining ring, and, together with the seat ring, is easily replaceable.

Premier valves offers metal-sealed wedge gate valves, butterfly and non-return valves and Gunric valves offers butterfly, step seat dampers and tilting disc check valves.

WEDGE GATE, BUTTERFLY AND TILTING DISC CHECK VALVES



**Series 6133
Premier Valves Wedge Gate Valve**
Wedge Gate Valve
Metal Seated
S.G. iron BS 2789 Gr. 420/12
body, bonnet and wedge (test
Pressure ≤ 5000 kPa)
Solid wedge (bronze channel
guides and gate shoes)
Non-rising & rising stem option
Locally Manufactured



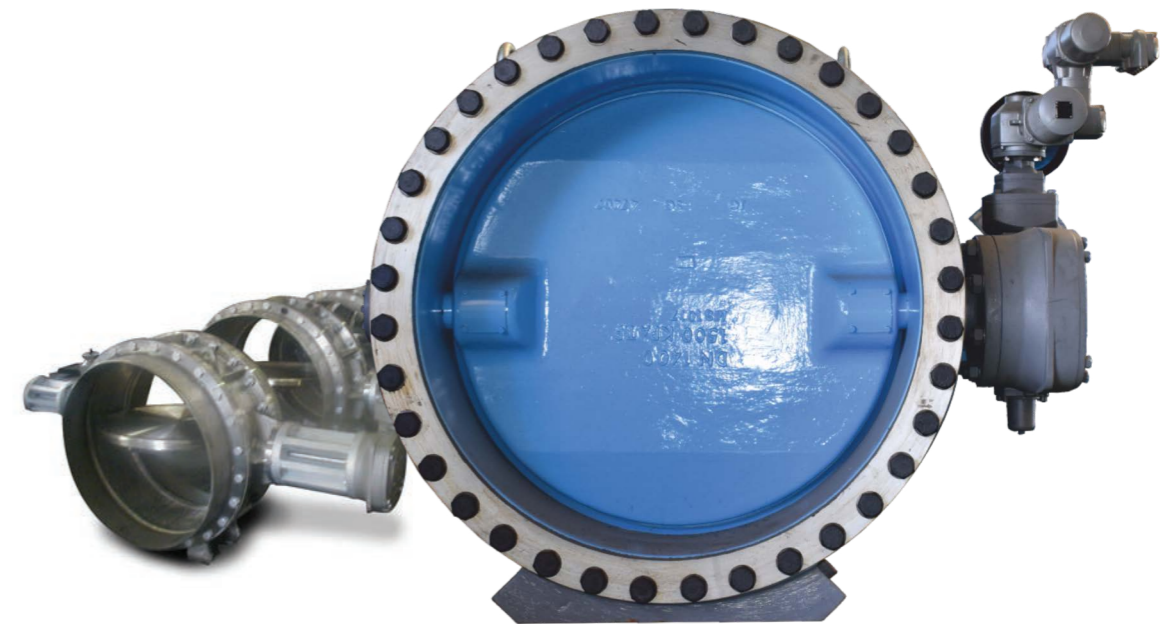
**Series 6137
Premier Valves Butterfly valve**
Boving Butterfly valve
Flanged and soft seated
Soft seal, solid disc, seal = EPDM – rubber
70 / 80 shore A
Face to face dimension to BS EN, ISO, SANS
and API
Cast steel BS 3100 Gr. A2 body, bonnet and
wedge (test pressure ≥ 4000 kPa)
Locally Manufactured



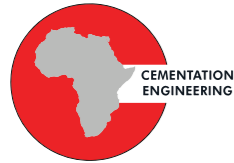
**Series 6145
Gunric Valves Butterfly valve
Triple Eccentric**
Metal seated, solid disc
Face to face dimension to BS EN, DIN, API,
ANSI and AWWA C207
Cast steel or S6 iron
Seal = laminated stainless steel or solid
metal seal
Locally Manufactured



**Series 6146
Gunric Tilting Disc Check**
Metal to metal
Metal seated, solid disc
Face to face dimension to BS EN, DIN, API,
ANSI and AWWA C207
Cast steel or S6 iron
Seal = laminated stainless steel or solid
metal seal
Locally Manufactured



THE ART OF HIGH PRESSURE CONTROL



CEMENTATION ENGINEERING

Cementation Engineering (CEM) is renowned for high pressure mining products and these products are used during shaft sinking and exploration. CEM offers mining cages that include telescopic pipes and tee pieces that can be used on the telescopic or drive pipes. The high pressure cock valve products are used in mining to seal off water by grouting. This 2.5" range is also used to allow drilling operations to take place through this cock, while controlling the high pressure. Cementation Engineering also provides a range of cocks up to 4" as required.



Industrial & Petroleum Valves



IPV

Established in the late 1960's the IPV product range was designed for the more harsher of applications where reliability and durability was of paramount importance. The IPV range specialises in reduced bore valves, full bore and trunnion mounted ball valves, single door check valves (wafer) and rubber lined butterfly valves (wafer). Please enquire regarding our new PED SANS 347 and SAGAS approval. A variety of specialised materials are available upon request.

BAKER CONTROL

For more than 40 years the Baker Control Valve has offered a technical competitive advantage to the market by providing a 4:1 pressure reduction ratio as opposed to a 3:1 ratio. The Baker is also capable of operating at low pressures, improving the life span and maintenance of the valve and consequently reducing costs. Size and pressure ratings varies from PN10 to PN25.

COCK, CONTROL, BALL CHECK AND BUTTERFLY VALVES



Series 6127 CEM Cock Valves

Forged body material for 41 Mpa pressure
For sealing off water for grouting
Various end connections female threaded, male threaded, Male/Female, Hub to suit hub clamp and flanged
20mm to 100mm
Locally Manufactured



Series 6139 Baker Control valve

Various options available
4:1 ratio
Locally manufactured



Series 6142A IPV Ball Valve

Reduced Bore
CF8M and CN7M body options available
Stainless steel and alloy 20 trims available
Locally Manufactured



Series 6142B IPV Ball Valve

Full Bore
CF8M and CN7M body options available
Stainless steel and alloy 20 trims available
One piece and two piece body options
Locally Manufactured



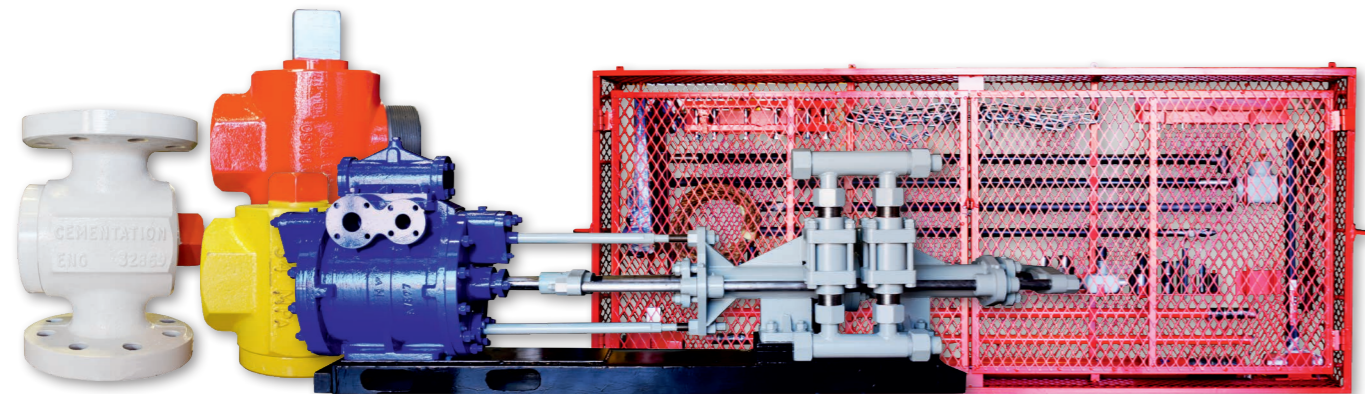
Series 6143 IPV Check Valve

Class 150 and class 300 option
WCB body and CF8M body options
CF8M disc and hinge
316SS SS hinge pin to fit ASA300 option
Locally Manufactured



Series 6144 IPV Butterfly Valve

Wafer
Rubberlined
Gearbox operated
Locally Manufactured



WOUTER WITZEL & ORBINOX – HIGH PERFORMANCE VALVES



Based in the Netherlands, with more than four decades of experience in the manufacturing of high-performance butterfly valves, Wouter Witzel offers a wide range of standard products.

Moreover, being a producer enables us to react to specific customer requirements and come up with solutions or improvements for the many applications of valves used in the different markets. Providing total cost of ownership, through reliability in more demanding applications, is where our strength lies. Please enquire within for a comprehensive list of all our International and local approvals.

Orbinox is present in more than 70 countries with over 50 years' experience designing, manufacturing and marketing Knife gate valves, Penstock valves, Dampers and valves for hydraulic works. With Orbinox' s state of the art manufacturing facility situated in Spain and modular product design; shorter lead times and quality can be guaranteed.

BUTTERFLY, GATE, KNIFE GATE AND CHECK VALVES



**Series EVFS
Wouter Witzel**
Flanged
Wafer type body
Ductile iron body,
duplex stainless steel
disc and shaft
EPDM vulcanised
and rubberlined



**Series 6137
Wouter Witzel**
Flangeless
Wafer type body
Ductile iron body,
duplex stainless steel
disc and shaft
EPDM vulcanised
and rubberlined



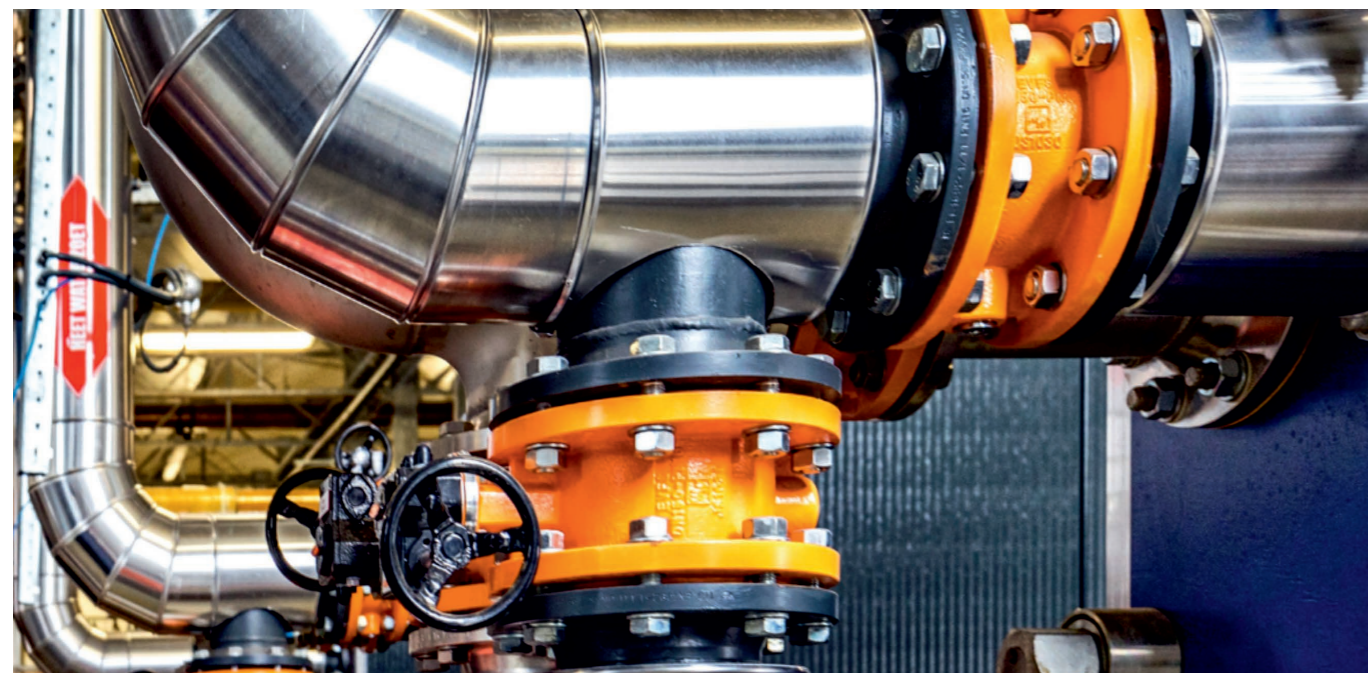
**Series L20
AVK Knife gate valve**
Uni directional monoblock
Wafer type, ductile iron body
304 stainless steel gate,
EPDM
seat (pneumatic actuator
option available)



**Series VG
Orbinox Knife gate**
Wafer type, bi-directional
Handwheel and double acting
pneumatic actuator options
Wafer style cast monoblock
design
Ductile iron body



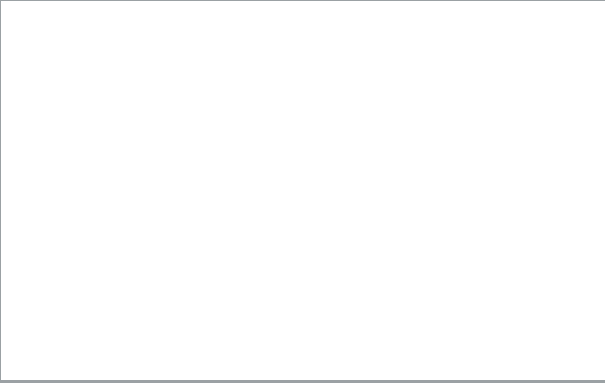
**Series RM
Orbinox Check valve**
Single tilting disc
Slanted seat



FLANGE DRILLING CHART

mm	BS10, TD		ANSI 150, 300, 600#			
	NO. OF HOLES	Hole Diameter	No. of Holes	Hole Diameter	P.C.D	
15	4	14	67	4	16	60,67,67
20	4	14	73	4	16,19,19	70,83,83
25	4	14	83	4	16,19,19	79,89,89
32	4	14	87	4	16,19,19	89,98,98
40	4	14	98	4	16,22,22	98,114,114
50	4	17	114	4,8,8	19	121,127,127
65	4	17	127	4,8,8	19,22,22	140,149,149
80	4	17	146	4,8,8	19,22,22	152,168,168
100	4	17	178	8	19,22,25	191,200,216
125	8	17	210	8	22,22,29	216,235,267
150	8	17	235	8,12,12	22,22,29	241,270,292
200	8	17	292	8,12,12	22,25,32	298,330,349
250	8	22	356	12,16,16	25,29,35	362,387,432
300	12	22	406	12,16,20	25,32,35	432,451,489
350	12	25	470	12,20,20	29,32,38	476,514,527
400	12	25	521	16,20,20	29,35,41	540,571,603
450	12	25	584	16,24,20	32,35,44	578,629,654
500	16	25	642	20,24,24	32,35,44	635,686,724
600	16	29	756	20,24,24	35,41,51	749,812,838

SABS1123-T10/3,		T16/3, T25/3, T40/3		BS4504-T10/3, T16/3,T25/3,T40/3	
NO. OF HOLES	HOLE DIAMETER	P.C.D	NO. OF HOLES	HOLE DIAMETER	P.C.D
4	14	65	4	14	65
4	14	75	4	14	75
4	14	85	4	14	85
4	18	100	4	18	100
4	18	110	4	18	110
4	18	125	4	18	125
4,4,8,8	18	145	4,4,8,8	18	145
8	18	160	8	18	160
8	18,18,22,22	180,180,190,190	8	18,18,22,22	180,180,190,190
8	18,18,26,26	210,210,220,220	8	18,18,26,26	210,210,220,220
8	22,22,26,26	240,240,250,250	8	22,22,26,26	240,240,250,250
8,12,12,12	22,22,26,26	295,295,310,320	8,12,12,12	22,22,26,26	295,295,310,320
12	22,26,26,33	350,355,370,385	12	22,26,30,33	350,355,370,385
12,12,16,16	22,26,26,33	400,410,430,450	12,12,16,16	22,26,30,33	400,410,430,450
16	22,26,33,33	460,470,490,510	16	22,26,33,36	460,470,490,510
16	26,26,33,39	515,525,550,585	16	26,30,36,39	515,525,550,585
20	26,26,33,39	565,585,600,610	20	26,30,36,39	565,585,600,610
20	26,33,33,39	620,650,660,670	20	26,33,36,42	620,650,660,670
20	26,33,39, NO T40	725,770.770, NO T40	20	30,36,39, NO T40	725,770.770, NO T40



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