



PREMIER VALVES
PRODUCT SELECTOR



**PREMIER
VALVES**



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DISCOVER A WORLD WITH A FULL LINE OF PRODUCTS

PREMIER VALVES (PV) HAS BEEN MANUFACTURING AND SUPPLYING A BROAD RANGE OF VALVE PRODUCTS IN SOUTH AFRICA FOR OVER 50 YEARS.

The AVK Group acquired a majority interest in the Premier Valves Group in 2014 and combined it with its existing AVK South Africa business under AVK Holding Southern Africa (Pty) Ltd (AVKHSA).

Following the merger, AVKHSA has made a substantial investment in expanding and upgrading the old Premier Valves factory, building a new AVK Manufacturing facility, a modern office building - incorporating an in-house training Academy - and a central distribution centre all on the same 46,000 sqm site.

This impressive ISO 9001:2015 accredited Group facility, just outside Johannesburg, is the largest valve manufacturing operation in Africa and now employs >200 dedicated staff.

Premier Valves' range of manufactured products includes five core valve types for the Water Industry, all developed over many years to suit South African operating conditions. They are:

- Metal seated wedge gate valves made up to DN1800, in both Rising/ Non-Rising configurations and in pressure ratings up to PN64;
- Resilient sealing eccentric design and rubber lined concentric design butterfly valves up to DN3000, and in pressure ratings up to PN40 for the eccentric design and PN16 for the concentric design;
- Multi-door reflux valves up to DN1800 and up to PN64;

- Fabricated Stainless Steel Sleeve (Jet Dispersal/Fixed Cone) valves up to DN2500 and up to PN60; and
- Baker (Diaphragm) Control valves in sizes up to DN600 and pressures up to PN50.

Detailed information regarding PN rating and size for each product is provided in this product selector. Please note, that in many cases, the PV Product range represents an extension (in either size or pressure rating) to previously available AVK Standard products.

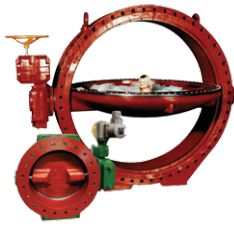
In addition, Premier Valves has an experienced in-house technical team and an on-site Pattern shop. This means it retains a high degree of flexibility with regards to being able to offer low volume 'special' valves that are derived from its standard products but adapted to meet individual customer requirements. Such customer requirements might include odd imperial sizes, non-standard face to face/ flange dimensions, specialist coatings or bespoke accessories such as Hydraulic Cylinders and Packs.

Technical information, prices and deliveries for such 'special' valves are subject to the necessary technical quoting capacity being available at the time of enquiry, and the prospect of a commercial return on any investment required.

Premier Valves also manufactures a range of heavy duty Rubber Lined Butterfly, Ball and Wafer Check Valves for Industrial applications, which are marketed under its Industrial Petroleum Valves (IPV) brand as well as Metal Seated Plug Valves for deep/ extreme high pressure mining applications, which are marketed under its Cementation Engineering (CE) brand.



LOCALLY MANUFACTURED PRODUCTS



**PREMIER BOVING
FLANGED SOFT SEATED
BUTTERFLY VALVE**



**BUTTERFLY VALVE,
B125, B150**



**GUNRIC TRIPLE ECCEN-
TRIC METAL SEATED
BUTTERFLY VALVE**



**PREMIER WEDGE GATE
VALVE**

SERIES NO.

6137

6136

6145

6133

DESCRIPTION

Boving/Von roll Eccentric butterfly valve

Double flanged rubber lined BA butterfly valve

Metal Seated Gunric Triple Eccentric Butterfly Valve

Metal Seated gate valve

APPLICATIONS

Water , Waste water and cooling water

Cooling water for power generation

Water, Waste Water, Cooling Water, Mine Water and Chemicals, Steam, Gas

Water & waste water

MAIN FEATURES

Replaceable body seat and soft seal on disc

Vulcanized soft seat body liner

Bubble Tight Shut, Fire Safe Certified Design, High Cycle, High Performance, Large Diameters, ISO 5211 Mount

Channel Guides and gate shoes, Solid Wedge

SIZES

200mm to 3000mm

500mm to 3000mm

80mm to 2500mm

80mm to 1800mm

OPTIONS

Different disc seal soft seat materials- EPDM, Bune-N. Removable seat and welded body. Gearbox, lever and counter weight, Electric actuator, hydraulic actuator.

EPDM, Bune- N, Viton and Natural rubber linings. Gearbox, pneumatic actuator, electric actuator

Seals available in

- Laminated metal
- Solid metal
- PTFE
- ANSI B16.10

Rising stem and non rising stem, Jacking, Screws, Bronze and stainless steel seat option, handwheel, gearbox, electric actuator

VALVE RATING

PN 6- PN40

Available from PN6 to PN10 and DN400 to DN3000

PN2.5 – PN250, Class 125 to Class 1500

PN10 - PN 64

TEMPERATURE RANGE

-10°C to +70°C

-10°C to +70°C

-35°C to +1000°C

-10°C to +70°C

BODY MATERIALS

Ductile iron

Ductile iron

Available in steel, ductile iron, stainless steel, nickel alloys, fabricated and castings available

Ductile iron

APPLICABLE STANDARDS

BS and ISO

Eskom

BS EN 593, BS EN 1092, DIN 2630 – 2638, ANSI B16.5, API 605, API 609 & AWWA C207

BS5163, DIN, SANS



BAKER CONTROL VALVE

6139



PREMIER DISPERSAL VALVE

6140



PREMIER MULTI DOOR CHECK VALVE

6135



PREMIER FLANGED CHECK VALVE

6134



GUNRIC METAL SEATED TILTING DISC CHECK VALVE

6146

Baker control valve	Fixed cone sleeve valve	Flanged multi door check valve	Flanged single door check valve	Gunric Tilting Disc Check Valve
Water and mine water with smaller particles	Dam outlets, pump stations, scour	Water & waste water	Water & waste water	Water, Waste Water, Cooling Water and Mine Water
Self actuated pilot operated, 4:1 turn down ratio, hydraulic globe type	Soft seal with tight shut-off	Three piece design, multi door, replaceable centre, lever arm and counter weight, Rapid closing times without slamming	Seat material options	Metal to Metal Seal, Drip Tight Shut Off, Horizontal and Vertical Installation, Auto closing, Assisted Closing
50mm to 600mm	150mm to 2500mm	500mm to 1800mm	80mm to 500mm	80mm – 2500mm
Pressure reducing, pressure relief, flow control, level control and pump start up control, electronic control, diaphragm available in neoprene/ Viton/EPDM	Mild steel and stainless steel fabrication. Operated by manual gearbox, electric actuator or hydraulic actuator. Custom designs to suit particular applications	Bronze and stainless steel seats	Seats in Bronze and stainless steel, Steel weld options	Hydraulic Cylinder, Step Seat Design, Lever with counter weight(s), Integral or replaceable seat
PN 6- PN50	PN 10- PN 60	PN10 - PN 64	PN10 - PN 64	PN6 – PN40, 2.5 Bar to 40 Bar
-10°C to +70°C	-10°C to +70°C	-10°C to +70°C	-10°C to +70°C	-35°C to +425°C
Ductile iron and WCB	Mild steel and stainless steel	Ductile iron	Ductile iron, cast steel	Available in steel, ductile iron, stainless steel, nickel alloys, fabricated and castings available
Manufacturers standard	DWS (DWA)	DWA	Rand Water Board specification, BS5153	BS EN 593, BS EN 1092, DIN 2630 – 2638, ANSI B16.5, API 605, API 609 & AWWA C207

LOCALLY MANUFACTURED PRODUCTS



GUNRIC DAMPER



**CEM COCK VALVE/
METAL SEATED PLUG
VALVE**



SERIES NO.

6147

DESCRIPTION

Butterfly Step Seat Design, 98% Shut off by volume

Cem slurry cock valves

APPLICATIONS

Water, Waste Water, Cooling Water, Air and Gas

Mining - sealing off water for grouting

MAIN FEATURES

Custom made design for application

Forged body material for 41 Mpa pressures

SIZES

100mm – 3000mm

20mm to 100mm

OPTIONS

Gearbox, Pneumatic or Electric actuation

Various end connections- female threaded, male threaded, Male/Female, Hub to suit hub clamp and flanged

VALVE RATING

PN 25 to PN 40

15Mpa - 41 Mpa

TEMPERATURE RANGE

-35°C to +1000°C

-10°C to +150°C

BODY MATERIALS

Fabricated Mild Steel, Stainless Steel and Duplex Stainless Steel

A105 forging

APPLICABLE STANDARDS

Manufacturers Standard

Manufacturers standards

**CEMENTATION ENGINEERING,
A DIVISION OF THE PREMIER
GROUP, MANUFACTURES HIGH
PRESSURE MINING PRODUCTS**



IPV BALL VALVE

6142A

- IPV reduced bore ball valve

Water fuels chemical and acids

- One piece , fire safe

20mm to 200mm

Soft seated, metal seated, stellite seats with nitrided ball and vented ball. Operator- lever, gearbox, pneumatic and electric actuator

Class 150 to Class 300

-35°C to +425°C

WCB, 304, 316, Alloy 20, Sanicro 28, Monel, Titanium etc

Manufacturers standard



IPV BALL VALVE

6142B

- IPV Full Bore Ball Valve

Water fuels chemical and acids

- Two piece , fire safe

50mm to 250mm

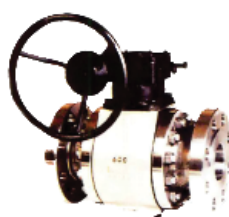
Soft seated, metal seated, stellite seats with nitrided ball and vented ball. Operator- lever, gearbox, pneumatic and electric actuator

Class 150 to Class 300

-35°C to +425°C

WCB, 304, 316, Alloy 20, Sanicro 28, Monel, Titanium etc

Manufacturers standard



IPV BALL VALVE

6142C

- IPV full trunnion mounted bore ball valves

Water, fuels, chemicals and acids

- Three piece design, Full port, Trunnion

80mm to 300mm

Soft seated, metal seated, stellite seats with Nitrided Ball and vented ball. Operator- lever, gearbox, pneumatic and electric actuator

Class 600 to Class 900

-35°C to +425°C

WCB, 304, 316, Alloy 20, Sanicro 28, Monel, Titanium etc

Manufacturers standard



IPV CHECK VALVE

6143

IPV wafer single door check valve

Chemical and petro chemical

Tight shut-off, spring loaded disc, self aligning disc

40mm to 600mm

Various material options. Stellited seat option

class 125 to class 900

-35°C to +425°C

SG42, WCB, 316

API 594



IPV BUTTERFLY VALVE

6144

IPV wafer rubber lined butterfly valve

Heavy duty fines for mining and slurry

Compact design, no gaskets, required and split body, Split body allows for removal from line and controls left line, vulcanized line, operator gearbox, pneumatic and electric actuators, Trigger lever, Disc- 316 Stainless steel, Sanrico 28

50mm to 600mm

Vulcanized liner, operator- gearbox, pneumatic, and electric actuators, Trigger lever, Disc- 316 Stainless steel, Sanrico 28

PN 16- PN 25

-10°C to +150°C

WCB

Manufacturers standard and BS5155

TRADED PRODUCTS



SPHERICAL VALVE



TILTING DISC CHECK VALVE



NOZZLE CHECK VALVE



FLEX CHECK VALVE

DESCRIPTION

Spherical valve design allows for smooth flow with minimal flow resistance on full opening, reducing velocity loss and conserving energy.

Eccentric Butterfly valve design, equipped with Dashpot which ensures that it is closed in two steps i.e. fast action during the first 90% of travel and controlled during the last 10%.

Non-slam check valves solve the most arduous waterhammer applications. Maintenance free and mainly installed where huge surge forces are expected, to avoid pump damage.

The Premier Flex Check Valve has a very simple construction and consists of Body, Cover and Flex Disc.

APPLICATIONS

Hydro Power Stations and Dams

As pump control valve at start-up, Sewage Water and Potable Water

Water systems on the pump discharge

The Premier Flex Check Valve has a very simple construction and consists of Body, Cover and Flex Disc.

MAIN FEATURES

Double seal design with upstream maintenance seal and downstream service seal. Shaft-end design with self-tightening double seal. Excellent in preventing ingress of sediment.

This valve has a greater offset in the shaft to ensure that the weight of the door acts as counterweight. Hydraulic dashpot is adjustable between 1 - 10 seconds for last 10% of travel. Valve seat at angle $\pm 20^\circ$ from centreline which ensures shorter travel of only 70° from fully closed to fully open. Low opening pressure of only 80kPa to fully open the valve.

Nozzle type aerodynamic design Inherent non-slam characteristic. Quick closure, less than 0.15 seconds movement from fully open to fully closed, Short stroke, Low pressure loss. May be installed horizontally, vertically or any other position.

The Flex Disc is made of Steel Plate coated with reinforced Nylon Fabric and Rubber with a nearly full flow to ensure that particles do not deposit in the body. Installed at the outlet of a pump to prevent reverse flow and also waterhammer.

SIZES

500mm - 3000mm

500mm - 2000mm

50mm - 2200mm

50mm - 800mm

OPTIONS

Manual gear operated, electric actuated, hydraulic actuated and hydraulic self-closing

Sealing Ring - A available in Rubber, Stainless Steel, Copper Alloy, Plastic.

Rubber sealing available on KRVZ(A) - 50mm to 250mm

The valve has provision for a hydraulic damper to be installed to prevent slamming of the disc.

VALVE RATING

Up to 100 Bar

6 Bar to 16 Bar

10 Bar to 40 Bar

10 Bar

TEMPERATURE RANGE

Up to 60 degrees C

Up to 60 degrees C

Up to 40 Degrees C

Up to 50 Degrees C

BODY MATERIALS

Casting - Ductile Iron, Cast Steel; Fabrication - Mild Steel. Other materials available on request.

Ductile Iron

Cast Iron & Ductile Iron

Cast Iron & Ductile Iron

APPLICABLE STANDARDS

Manufacturer's Standard

Manufacturer's Standard

Relevant Sections of BS 6755 - Part1 - 1986

BS 6755, part 1 - 1986; ISO 5208 - 1993



RING NEEDLE VALVE

Inline plunger-type control valve used for open/closed or modulating applications.

Water Supply - Drinking Water

Anti-activation system. Gearbox, Electric or Oil-dynamic Actuator

80mm - 1600mm

The valve is available with various trims for high or low pressure drop applications. Anti-cavitation trim. PSEG - Flat Obturator, PSSG - Obturator with V-Port, PSLG - Obturator with a perforated Cylinder or Slotted Cylinder.

16 Bar to 64 Bar

0 up to 40 Degrees C

Ductile Iron and Carbon Steel

WRAS, EN 1074-1, EN 1074-5, EN 558-1 S15 (ISO 5752), EN 1092-2 (ISO 7005-2)



ECCENTRIC PLUG VALVE

The eccentric design reduces friction between plug and seat, thereby reducing operating torque.

Ideal for water, sewage, slurries, pulp and paper.

Rectangular Plug area provides excellent throttling performance. Particles are easily passed through the valve without leaving deposits, especially when the shaft is installed in the horizontal position."

50mm - 1400mm

"Different Rubber coatings for the plug are available ie EPDM, NBR or Neoprene."

16 Bar

Up to 50 Degrees C

Ductile Iron

Manufacturer's Standard



BAKER ELITE VALVE

Automatic self actuated inline Axial Flow Control has features which puts it beyond the capability of standard diaphragm actuated control valves.

Clean Fluid and Air

High Turndown ratio - up to 12:1, low flow stable control, compact and light body design, block mounted pilots.

32mm to 1200mm

Float, Pressure Reducing, Pressure Relief, Solenoid Control, Sustaining Functions

Up to 50 Bar

-15 up to 80 Degrees C

Cast Iron, Ductile Iron, Bronze, Stainless Steel

Manufacturer's Standard



FLAP VALVE

Flap Valves are used for end-of-line application. Can be fitted to pipes or to walls.

Water and Waste water systems.

Premier Flap valves are corrosion protected by 250 micron FBE coating on Ductile Iron Body and Flap"

80mm - 600mm

Lockable

16 Bar

Up to 80 Degree C

Ductile Iron

Relevant Sections of BS 4504 and EN 1092

TRADED PRODUCTS



**VARIX DOUBLE
FLANGED BUTTERFLY
VALVE**



**VARIX U-TYPE WAFER
BUTTERFLY VALVE**



**VARIX WAFER TYPE
UTILITY BUTTERFLY
VALVE**



**VARIX LUGGED TYPE
UTILITY BUTTERFLY
VALVE**

DESCRIPTION

The valve has a Quarter-turn operation, streamlined disc for low pressure loss and liner cartridge that slides out of the body for easy replacement. The valve provides a bubble tight shut-off and requires no gaskets for installation between flanges

APPLICATIONS

Ideal for Water, Waste Water, Sewage, Cooling Water, gasses, powders and Mining Water.

Ideal for Water, Waste Water, Cooling Water and Mining Water.

Ideal for Water, Waste Water, Cooling Water and Mining Water.

Ideal for Water, Waste Water, Cooling Water and Mining Water.

MAIN FEATURES

Bubble tight shut-off after thousands of operations. Liner bonded to a rigid backing to eliminate seat distortion and reduce seating torque. Low mass for easy installation between flanges – requires no gaskets. Available with various operator options. Valve comes standard with high temperature EPDM liner for applications up to 110°C

SIZES

50mm - 2200mm

150mm - 1200mm

50mm - 1200mm

50mm - 700mm

OPTIONS

“Available with worm gearbox, pneumatic, electric, hydraulic or float actuators. Different liner material options available. Disc available in Ductile Iron + ENP, Aluminium Bronze, 304SS and 316SS.”

“Available with worm gearbox, pneumatic, electric, hydraulic or float actuators. Different liner material options available. Disc available in Ductile Iron + ENP, Aluminium Bronze, 304SS and 316SS.”

Available with ratchet handle, worm gearbox, pneumatic, electric, hydraulic or float actuators. Different liner material options available. Disc available in Ductile Iron + ENP, Aluminium Bronze, 304SS and 316SS.

“Available with ratchet handle, worm gearbox, pneumatic, electric, hydraulic or float actuators. Different liner material options available. Disc available in Ductile Iron + ENP, Aluminium Bronze, 304SS and 316SS.”

VALVE RATING

PN16

PN16

PN10, PN16 and PN25

PN10, PN16 and PN25

TEMPERATURE RANGE

-20 up to 110 Degrees C

-20 up to 110 Degrees C

-20 up to 110 Degrees C

-20 up to 110 Degrees C

BODY MATERIALS

Ductile Iron

Ductile Iron

Cast Iron & Ductile Iron

Cast Iron & Ductile Iron

APPLICABLE STANDARDS

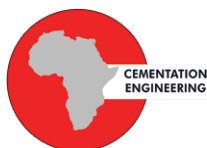
Relevant sections of BS 5155, ISO 5752, SANS 1123, BS EN 593

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Members of the **AVR** group

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