

**OUR RANGE OF VALVES
AND ACTUATORS**



 **ENERGY** Valves



energyvalves.co.za



As part of the dynamic EMVAfrica group, EnergyValves is positioned as more than a supplier of valves, we offer complete solutions.

EnergyValves' range of stainless steel valves is sourced from reputable and highly certified manufacturers and suppliers with proven track records. The division is focused on establishing long-term relationships with suppliers and regularly audit their quality standards as well as provide material and pressure test certificates with all valve products.

With stainless steel valves forming the bulk of the range offered, the division also offers valves in Duplex stainless-steel, Titanium valves, 904L valves, Nickel Alloy valves as well as numerous other High Performance Alloys. The company's comprehensive valves portfolio includes a range of ball valves, knife gate valves, wedge gate valves, butterfly valves, check valves, needle

ENERGYValves

valves and pressure relief valves. In addition to stainless steel valves, EnergyValves also supplies valves in lower steel grades such as carbon steels. The division also holds extensive stock of the most commonly used valves in corrosion resisting Alloys.

EnergyValves complements its extensive valve range with a valve actuation service. The division has a fully equipped workshop stocked with a range of pneumatic double-acting/spring return quarter turn actuators. Together with a comprehensive service offering including valve repairs, servicing and technical advice.



BALL VALVES

EnergyValves stocks a wide range of ball valves with flanged ends, threaded ends and weld-on ends. In addition, we stock ball valves for high pressure applications and fire safe certified valves.

We are well positioned to service your needs for ball valves in Alloys such as Duplex stainless steels, Nickel Alloys (e.g. Alloy C276), Titanium, Alloy 20, 904L, CD4MCu and many others.



SCAN FOR DATASHEETS

1 PIECE BALL VALVE

Type: 1 Piece threaded ball valve
Materials: Reduced Bore BSP
1000psi pressure rating for water, oil and gas PTFE soft seat, stainless steel (ASTM A351-CF8M) body and trim
Sizes: 1/4" – 3"
Notes: Supplied complete with locking device



2 PIECE THREADED BALL VALVE

Type: 2 Piece threaded ball valve
Materials: Full Bore BSP
1000psi pressure rating for water, oil and gas PTFE soft seat, stainless steel (ASTM A351-CF8M) body and trim
Sizes: 1/4" – 3"
Notes: Supplied complete with locking device



3 PIECE THREADED BALL VALVE

Type: 3-piece full bore ball valve
Materials: PTFE seats
Locking device on handle
BSP threaded ends
1000 PSI pressure rating
Sizes: 1/4" – 4"
Notes: Socket Weld and Butt Weld ends also available. Offered in stainless steel ASTM A351-CF8M and ASTM A216-WCB



3 PIECE BALL VALVE WITH ISO MOUNT PAD

Type: 3-piece full bore ball valve
Materials: 15% glass reinforced PTFE seats
Locking device on handle
BSP threaded ends
ISO 5211 mounting pad for actuation
Socket Weld and Butt Weld ends also available
1000 PSI pressure rating
Sizes: 1/2" – 4"
Notes: Offered in stainless steel (ASTM A351-CF8M)



3 WAY VALVE WITH ISO MOUNT PAD

Type: 3 Way L-port and T-port
Materials: BSP threaded ball valve in stainless steel CF8M
Includes an ISO 5211 mounting pad for actuation.
Sizes: 1/2" – 2"



FLANGED CLASS 150 BALL VALVE

Class: 150
Type: Ball full bore 2-piece valve
Materials: Offered in stainless steel (ASTM A351-CF8M) (ASTM A216 WCB)
Fire safe design
ISO 5211 mounting pad
15% glass reinforced PTFE seats
Sizes: 1/2" - 8"
Notes: Larger sizes offered ex manufacturer. Our class 150 valves are also available with a PN16 flange size to accommodate a variety of flange drillings. Available from stock



FLANGED CLASS 150 DRILLED ASA150/PN16 BALL VALVE WITH ISO PAD/ DIRECT MOUNT ISO PAD

Class: 300
Type: Full bore 2-piece fire safe design
Materials: Ball valve offered in stainless steel ASTM A351-CF8M
(Locking devise and ISO 5211 mounting pad for actuation
15% glass reinforced PTFE seats
Sizes: 1/2" - 6" available from stock
Notes: Larger sizes offered ex manufacturer. ASTM A216 WCB material and larger sizes available exmanufacturer



METAL SEATED FLANGED BALL VALVE

Class: 150
Type: 2-piece full bore design
Materials: Stainless steel CF8M metal seated ball valve
Floating ball, uni-directional
Nitride coated ball with stainless steel 316 stellite
Coated seats
* Available on special request



PFA LINED BALL VALVE

Class: 150
Type: 2-piece PFA fully lined ball valve
Materials: WCB body, CF8 stainless steel 304 ball

Notes: Body and ball lined with PFA. Valve suited to low temperature highly corrosive environments.
* Available on special request



TRUNNION MOUNTED STAINLESS STEEL BALL VALVES

Class: 150 - Class 2500, PN 16 - PN160
Type: Trunnion mounted ball valves
Materials: Stainless steel ASTM B344 CG1
And ASTM A351 CF8M
Available in carbon steel ASTM A216 WCB
With stellite trim or stainless-steel trim
As well as forged stainless steel and carbon steel

Notes: PTFE seats and graphite body seal and packing.
* Available on special request



V-PORT/SEGMENT BALL VALVE

Type: Quarter turn valve
Materials: Stainless steel 316 (CF8M) with a metal seat
Bare shaft ready for actuation and complete with actuator
WCB, Alloy 2205 (duplex), Alloy 20, 904L and Titanium

Notes: The V-Port or Segment ball valve is a quarter-turn valve for flow control. With an actuator, it manages complex tasks and self-cleans, making it ideal for liquids with fibres and small solids. It's often used in pulp and paper, chemical, oil, and power generation industries. We stock it in stainless steel 316 (CF8M) with a metal seat and bare shaft for actuation. Other materials and special ball coatings are available upon request.
* Available on special request



SPECIAL ALLOY VALVES

We stock a range of Special Ball Valves which deliver the performance your applications demand. Our range includes Duplex stainless steels, Nickel Alloys (AlloyC276), Titanium, Alloy 20, 904L, CD4MCu and many others, all engineered for harsh and highly corrosive environments.



SCAN FOR DATASHETS

ALLOY 20 BALL VALVE

Class: 150
Type: Full bore 2-piece ball valve
Materials: Body and ball in Alloy 20 (ASTM A351 CN7M)
PTFE soft seat
ISO 5211 mounting pad for actuation
Supplied lever operated

Notes: Alloy 20 has particularly good resistance in sulphuric acid environments. It also has useful corrosion resistance in phosphoric acid, nitric acid and chloride environments. Alloy 20 is an excellent option when chloride stress corrosion cracking is an issue and resists pitting and crevice corrosion.
* Available on special request



ALLOY 2205 BALL VALVE

Class: 150
Type: Full bore 2-piece ball valve
Materials: Full Alloy 2205 duplex stainless-steel ball valve (ASTM A890 4A)
PTFE soft seat
ISO 5211 mounting pad for actuation

Notes: Alloy 2205 duplex stainless steel has excellent resistance to stress corrosion cracking and useful resistance to pitting. It has a high yield strength that can be typically 25% - 50% greater than conventional austenitic stainless steels
* Available on special request



BUTTERFLY VALVES

EnergyValves stocks a range of wafer type butterfly valves in cast iron body, with stainless steel 316-disc and/or complete stainless steel. Our focus is to provide a competitive but high-quality product, in a market characterised by some very poor-quality product. We are able to assist with double and triple eccentric butterfly valves.



PN16 WAFER TYPE BUTTERFLY VALVE

- Type:** PN16 Wafer Type Butterfly Valve & Butterfly Wafer Type Valve
- Materials:** Removable EPDM Liner, stainless steel 316 Pinless disc/stem & Stainless steel CF8M/grade 316). PTFE seat Square Stem Direct Mount
- Size:** Available from 2" - 24"
-
- Notes:** Available liners EPBM/ VITON/ NBR and PTFE
Larger Sizes available against order



HIGH PERFORMANCE LINED BUTTERFLY VALVE

- Type:** PN16 PFA and/or PTFE line butterfly valve
- Materials:** Wafer pattern
Lever or gear operated
-
- Notes:** Suitable for corrosive environments such as sulphuric acids, hydrochloric acids and nitric acid
* Available on special request



STAINLESS STEEL CLASS 300 DOUBLE ECCENTRIC BUTTERFLY VALVE

- Type:** Double Eccentric butterfly wafer type valve
- Materials:** Stainless steel (CF8M/grade 316). PTFE seat
Lever operated from 2" - 6". Gear Operated from 8" upwards
ISO 5211 mounting pad for actuation
- Size:** Available from 2" - 12"



LINED VALVES

EnergyValves offers a wide range of PFA & PTFE lined valves for corrosive environments. These include ball valves, check valves, ball check valves, butterfly valves and plug valves.

PERFORMANCE LINED BUTTERFLY VALVE

- Type:** PN16 PFA and/or PTFE line butterfly valve
- Materials:** Wafer pattern
Lever or gear operated
-
- Notes:** Suitable for corrosive environments such as sulphuric acids, hydrochloric acids and nitric acid
* Available on special request



PFA LINED BALL CHECK VALVES

- Type:** 150/PN16
- Materials:** WCB body
PFA lined with PTFE ball
-
- Notes:** Temperature range: -20 degrees celsius to 180 degrees celsius
* Available on special request



PFA LINED BALL VALVE

- Class:** 150
- Type:** 2-piece PFA fully lined ball valve
- Materials:** WCB body, CF8 stainless steel 304 ball
-
- Notes:** Body and ball lined with PFA. Valve suited to low temperature highly corrosive environments.
* Available on special request



CHECK VALVES

Our range of check valves focuses mainly on stainless steel valves in wafer patterns, flanged and with threaded ends. We hold good stocks but are also able to supply larger enquires ex-mill.



CLASS 150 SWING CHECK VALVE

- Type:** Swing Check Valve, Stainless Steel
Body, Class 150#, Designed to ANSI B16.34 standards
- Type:** Swing Check Valve, WCB Body, Class 150#, Bolted Cover, Flanged, Raised Face, Trim 1, Design BS1868, Tested & Inspected to API598s
- Sizes:** Size range from 1" - 10"
-
- Notes:** Available from stock
Designed to ANSI B16.34 standards



WAFER DOUBLE DOOR CHECK VALVES

- Type:** PN25 Stainless Steel / PN16 Cast Iron
Double Door Wafer Check Valve
- Materials:** Stainless steel ASTM A351-CF8M non-return valve.
Viton Seated with spring loaded doors
Cast iron body stainless steel doors with EPDM seats
- Sizes:** 2"- 12" available ex -stock,
larger sizes available against order
-
- Notes:** We are also able to offer this valve in carbon steel ASTM A216-WCB. In addition, the valve can be offered with NBR/EPDM or Viton seats.
Contact us for more information regarding stainless steel check valves.



THREADED Y-SPRING CHECK

- Type:** Stainless steel ASTM A351-CF8M Y-spring check valve
- Features:** Piston non-return valve
BSP threaded ends
800 PSI pressure rated
- Sizes:** Available in 1/2" to 2"



CHECK VALVES

PFA LINED BALL CHECK VALVES

- Type:** 150/PN16
- Materials:** WCB body
PFA lined with PTFE ball
-
- Notes:** Temperature range: -20 degree Celsius to 180 degrees Celsius
* Available on special request



THREADED STAINLESS STEEL SWING CHECK VALVES

- Type:** Stainless steel ASTM A351-CF8M cast body
swing check valve
- Materials:** 200 PSI pressure rating with BSP parallel threaded ends
- Sizes:** 1/2" - 2" sizes available ex-stock
-
- Notes:** Contact us for more information regarding stainless steel check valves



WAFER DISC STAINLESS STEEL CHECK VALVE

- Type:** Stainless Steel ASTM A351-CF8M wafer
disc check valve
- Materials:** PN40 pressure rating, with metal to metal seat and spring-loaded disc
- Sizes:** PN40 rated from 1/2" - 4" and PN25 rated from 6" - 8"
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- Notes:** We are also able to offer in carbon steel ASTM A216-WCB upon request
Available in Duplex and Special alloys



GATE / GLOBE VALVES

We stock stainless steel class 150 gate valves as well as threaded end gate valves. We regularly supply a wider range of carbon steel and stainless-steel wedge gate valves ex manufacturer. We are well positioned to supply gate valves in Alloys such as Duplex stainless steel, Alloy 20, 904L, Nickel Alloys (e.g. Alloy 276), Titanium and many others.



SCAN FOR DATASHEETS

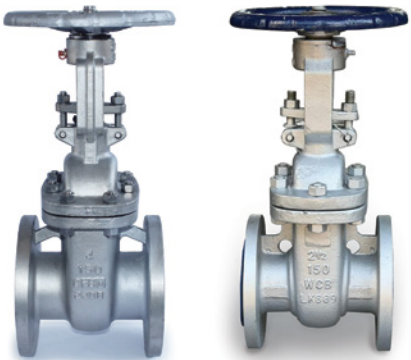
THREADED GATE VALVE

Type: Full bore BSP threaded end gate valve
Materials: Inside screw and screwed bonnet
Integral seat a non-rising stem
200 PSI pressure rating
Offered in stainless steel ASTM A351-CF8M
Sizes: From 1/2" to 2"



FLANGED CLASS 150 GATE VALVE

Type: Full bore stainless steel ASTM A351-CF8M class 150 gate valve
Materials: Outside screw and yoke, rising stem and bolted bonnet
Type: Gate Valve, WCB Body, Class 150#, Bolted Bonnet, Rising Spindle, Flanged
Materials: Raised Face, Trim 08, Hand wheel Operated, Design API600, Tested & Inspected to API598
Sizes: 1/2" to 16"



THREADED GLOBE VALVE

Type: CF8M Screwed end globe valve
Materials: CF8M body and screwed bonnet, 200psi pressure rating for water, oil and gas
Cone metal seat, 316 stainless steel, (ASTM A351-CF8M) body
Sizes: From 1/2" - 2"



FLANGED CLASS 300 GATE VALVE

Type: Gate Valve, WCB Body, Class 300#, Bolted Bonnet, Rising Spindle, Flanged
Materials: Outside screw and yoke, rising stem, and bolted bonnet. Raised Face, Trim 08, Hand wheel Operated, Design API600, Tested & Inspected to API598
Sizes: 50mm-300mm



150LB FLANGED GLOBE VALVES

Type: Class 150 Globe Valve
Materials: Available in Stainless Steel & WCB
Sizes: 1 inch to 8 inch
Test: API 598



CONTROL VALVES

EnergyValves range of control valves is used to control fluid flow by varying the size of the flow passage as directed by a signal from a controller or Manually controlled. This enables the direct control of flow rate and the consequential control of process quantities such as pressure, temperature and liquid level. EnergyValves also supplies globe control valves which are imported at time of order. Valves can be supplied in various material grades.



SCAN FOR DATASHEETS

V-PORT BALL VALVE

The V-Port or Segment Ball Valve is a quarter turn valve, mainly intended for throttle/control applications. Fitted with an actuator the valve can be used for sophisticated control applications.

The V-port design allows for good cutting force and self-cleaning, which means that the valve is suitable for use in media containing fibres and small solids. It is therefore often used in pulp and paper applications, but is also useful in chemical, oil, power generation and general control applications.

We offer the valve from stock in stainless steel 316 (CF8M) with a metal seat and bare shaft ready for actuation. We offer other body materials such as WCB, Alloy 2205 (Duplex), Alloy 20, 904L, and Titanium against order. In addition we can offer the valve with special coatings on the ball.



SOLENOID VALVE

Type: Semi Direct Acting (Normally Closed)
Materials: Body material - brass and SS316
Sealing material - VITON

Notes: Available from stock.
Other models available on special request!



KNIFE GATE VALVES

We stock a range of stainless steel 316 and Cast Iron PN10 knife gate valves, suitable for pulp and paper industry.



KNIFE GATE VALVES: WAFER TYPE UNI-DIRECTIONAL

PN10 general purpose stainless steel 316 (CF8M) knife gate valve. Suitable for sludges, fibrous and abrasive slurries, certain corrosive media and is best used as a shut off valve. Our valve is offered with a VITON seat and a full stainless-steel construction for more corrosive environments. Typical applications include pulp and paper, mining and mineral processing, water treatment, sewage, chemical, sugar and power generation.

We are also able to offer versions in duplex stainless steel (Alloy 2205) and other high-performance Alloys for more demanding applications.

Sizes: 2" - 16" available ex-stock



CAST IRON WAFER KNIFE GATE VALVE

Type: PN10 Cast Iron body, S/S 316 Disc Wafer Knife Gate Valve
Sizes: 50-400mm
Pressure: 10 Bar
Flange End Dimension: Table 10



PNEUMATIC DOUBLE ACTING ACTUATED CAST IRON WAFER KNIFE GATE VALVE

Type: PN10 Cast Iron body, S/S 316 Disc Wafer Knife Gate Valve with Pneumatic Double Acting Actuator
Sizes: 50-400mm
Pressure: 10 Bar
Flange End Dimension: Table 10



NEEDLE VALVES

We stock a range of high quality 6000 psi threaded end needle valves. In addition we are able to offer needle valves in an extensive range of exotic Alloys.



NEEDLE VALVE

Type: 6000 PSI stainless steel CF8M NPT threaded needle valve
Sizes: 1/4" - 1" available ex-stock



SAFETY VALVES

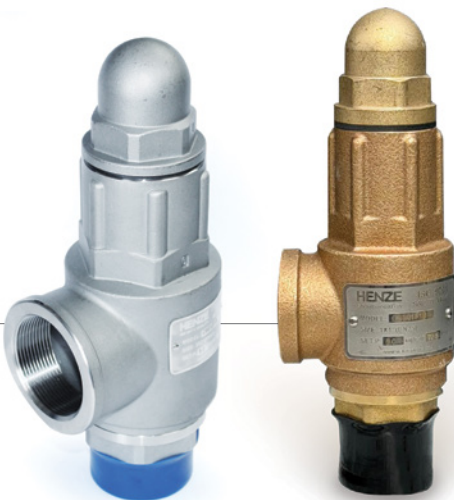
We stock grade 316 for low pressure applications. Special Alloy and high pressure safety valves are available on request.



DIRECT ACTING S/S 316 SAFETY RELIEF VALVE

Type: Stainless steel pressure relief valve
Sizes: Nominal Diameter 1/2" ~ 2" (DN15 ~ DN50)

Notes: Other body material, pressure ranges and seat materials available as a special request
Available in stock grade 316



STRAINERS

We stock a range of stainless steel threaded y-strainers. In addition, we are able to offer flanged strainers, as well as strainers in other Alloys.



SCAN FOR DATASHEETS

THREADED STRAINER BSP

Type: Stainless steel ASTM A351-CF8M Y-strainer valve
Features: BSP threaded ends
800 PSI pressure rated
Sizes: Available in 1/2" to 2"



STAINLESS STEEL FLANGED Y-STRAINER

Type: Class 150 stainless steel CF8M y-strainer
Sizes: Available in 1" - 6" from stock



WCB FLANGED Y-STRAINER

Type: Class 150 WCB Flanged Y-Strainer
Sizes: 1" - 8" inch / 25-200mm
Pressure: 150LB
Flange End Dimension: ASME B16.5 Undrilled



V-ACT COMPLETE VALVE CONTROL

EMVAfrica's range of high performing actuated professional valve solutions. Proudly presenting the V-ACT brand: one solution for centralised control and seamless flow. With proven capabilities across commercial and industrial applications in array of sectors; V-ACT is a fast becoming the brand of choice for automated valve control. Relevant for large - and small - scale applications and backed by three decades of experience and specialist industry knowledge; V-ACT delivers comprehensive support and total control.

PNEUMATIC ACTUATORS

Type: Pneumatic double and single acting rack and pinion actuator
Materials: Aluminium body, internal and external corrosion protection

Notes: Namur and ISO 5211 compliant



UNIQUELY DIFFERENTIATED THROUGH OUR 3S FACTOR: STOCK, SERVICE, SOLUTIONS.

The pneumatic actuator SOLUTION

- Versatile in application and environment
- Made from durable components
- Lightweight simplified design
- Requires minimal maintenance
- Wide temperature range: 40°C to +150°C
- Handles rapid opening or closing

Ideal for a wide range of industrial applications and complementing our extensive range of valves.

Always IN STOCK

- Pneumatic actuators now available ex-stock
- Extensive stock range of quarter turn ball valves, butterfly valves and v-port control valves
- Valves available in carbon steels, stainless steels and special Alloys.



ENERGY VALVES' ELECTRIC ACTUATORS

Introducing ENERGYValves' advanced range of Electric Actuators, designed for seamless control in a range of applications. Powered by advanced electric motors, they ensure precise angular displacement, perfect for rotary control valves like our butterfly valves. Easily switch between automatic and manual control for ultimate flexibility. Experience precision engineering with ENERGYValves Electric Actuators.



SCAN FOR DATASHEETS

ELECTRIC ON/OFF

Available in: 02N, 05N, 08N, 11N, 20N, 40N
Series: Normal On/Off
Rated Torque: 20 Nm – 400 Nm
Rated Voltages: AC/DC 24V; 220VAC *other voltages available by request
Install Valves: 2-way, 3-way ball valves and butterfly valves

Notes: Datasheets available on request for full specs per actuator



ELECTRIC SMART

Available in: 02T, 05T, 11T, 20T, 40T
Series: Intelligent Modulating (4 to 20mA)
Rated Torque: 20 Nm – 400 Nm
Rated Voltages: AC/DC 24V; 220VAC *other voltages available by request
Install Valves: 2-way, 3-way ball valves and butterfly valves

Notes: Datasheets available on request for full specs per actuator



ACCESSORIES



NAMUR MOUNT SOLENOID VALVES 24V, 110V, 220V



MECHANICAL LIMIT SWITCHES



ISO 5211 BRACKETS AND COUPLINGS



ELECTRO PNEUMATIC AND SMART POSITIONERS

COMMITTED TO INNOVATION

Our focus is to stock and supply a wide range of valves for corrosive and challenging industrial applications. Our range is therefore centred around an impressive stock of stainless steel and special Alloy valves. This is a unique offering and is supported by our extensive technical expertise in special Alloys and understanding their performance in corrosive environments. Our valves are used across a wide range of industries including mineral processing, water treatment, petrochemical, power generation, food and beverage and general industrial applications.

CONTACT US ON



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