

**VALVES * ACTUATORS
POSITIONERS * LIMIT SWITCHES
SOLENOID VALVES**



Company Profile



www.autovalve.co.za

About Us

Autovalve was established in July 1994 and have, since inception, offered locally manufactured linear actuators for diaphragm, globe, pinch and knife gate valves.

At Autovalve we have one of the most extensive product ranges available globally. Autovalve represent Alpha, a leading pneumatic control accessories manufacturer. We represent Nil Cor, corrosion resistant composite valve specialists. We also supply Norriseal instrumentation and control valves



Added to these leading suppliers is our expertise in local manufacture and valve automation. We have also developed a wide variety of specialized valves for various applications including, amongst others, polyurethane sleeve pinch valves and 3-way lime dosing valves.

Autovalve have supplied control valves and accessories to some of the biggest and most successful companies in South Africa and globally. Adcock Ingram, AEL, Afrox, Angloplatinum, Bateman, Columbus Stainless, Harmony Gold, Highveld Steel, Impala Platinum, Mossgas, Mondi, Minopex, Rustenburg Platinum Mines, SAB and many others have previously relied on Autovalve for their control valve needs. Our valves have also been exported all over the world including the following countries, Australia, Botswana, Chile, DRC, India, Namibia, Phillipines, Russia, Uganda, UK, USA and Zambia.



Linear cylinders from 100mm to 750mm diameter.



High performance valve for oxygen service.



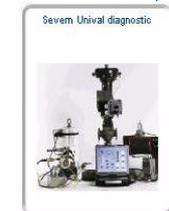
Brand name valve retrofitted with new actuator and positioner



Cryogenic valve test



Severe service control valve



Severn Unival diagnostic

Autovalve locally manufactured Lime Dosing Valves



Autovalve AV2000 globe control valve with a smart positioner



Autovalve actuator 750mm diameter with 22 ton thrust.



AV 2000 SERIES GLOBE CONTROL VALVE

THE AV2000 SERIES GLOBE CONTROL VALVE IS DESIGNED TO PROVIDE AN INEXPENSIVE VALVE FOR THE PROCESS INDUSTRY BUT MAINTAINING THE HIGH PERFORMANCE FEATURES OF MORE COSTLY ALTERNATIVES. THE SIMPLICITY OF DESIGN, USING A MINIMUM NUMBER OF PARTS AND EASE OF MAINTENANCE HAS CREATED A VALVE THAT IS RELIABLE IN OPERATION, GIVING THE BEST PERFORMANCE WHILST BEING THE EASIEST TO MAINTAIN.

MANUFACTURED IN SOUTH AFRICA
BY AUTOVALVE

FEATURES

- ☑ TOP ENTRY FOR EASE OF SERVICE IN OR OUT OF LINE.
- ☑ SINGLE SEAT CAGE RETAINED FOR PRECISE CONTROL AND TIGHT SHUT OFF.
- ☑ PISTON ACTUATOR FOR HIGH PERFORMANCE AND HIGH THRUST.
- ☑ YOKE CLAMP EASY REMOVAL ARRANGEMENT.
- ☑ FILAMENT WOUND ,NON-CORROSIVE BARREL IN ACTUATOR.
- ☑ HIGH DUTY STEM GUIDE AND DEEP STUFFING BOX FOR BETTER SEALING.
- ☑ TOP MOUNTED OR SIDE MOUNTED POSITIONER OPTION.



SPECIFICATION

Size Range	25 40 50 80 100 150
Connections	Flanged 300 ANSI-Drilled as required
Body and Bonnet	W316 ASTMA 743 grade CF8M Stainless Steel Other Materials available on request
Plug and Stem	316 St. Steel (1 Piece Design), Stellite Faced
Cage	Investment Cast 316 St. Steel
Seat	316 St. Steel, Stellite Faced, PTFE Insert option
Seat Gasket	Asbestos, PTFE
Bonnet Gasket	Spiral Wound Asbestos / Stainless Steel
Stem Guide	Glass Filled PTFE, Al/Bronze and St. Steel
Packing	PTFE, Graph Asb and PTFE/Asb
Gland Follower	316 St. Steel
Gland Flange	316 St. Steel
Yoke, Studs, Nuts & Bolts	316 St. Steel

SIZE RANGE : 25mm - 100mm
150/300 ASA
LARGER ON REQUEST



AUTOVALVE ALPHA1000 SERIES ELECTRO-PNEUMATIC POSITIONER



PNEUMATIC TO PNEUMATIC AND SMART
VERSIONS ALSO AVAILABLE

THE ALP-1000R SERIES POSITIONER IS A NEW GENERATION PRODUCT DEVELOPED AND PRODUCED WITH ADVANCED TECHNOLOGY. THE PRODUCT IS AUTHENTICATED BY CE, IP66, EXIA II BT6, EXDM BT6 AND EXDM II CT6. THE ALP-1000R POSITIONER CAN BE USED WITH BOTH DOUBLE ACTING AND SPRING RETURN ACTUATORS.

+ FEATURES:

- + THERE IS NO RESONANCE IN THE RANGE 5 - 200Hz
- + SPLIT RANGE ALTERNATIVE
- + EASY TO ADJUST ZERO AND SPAN
- + FAST AND ACCURATE RESPONSE
- + DESIGNED AS MODULAR STRUCTURE FOR EASE OF MAINTENANCE
- + EASILY CONVERT FROM DOUBLE ACTING TO REVERSE
- + LOW AIR CONSUMPTION
- + AFFORDABLE AUTOMATION DUE TO LOW INITIAL COST

ITEM	SINGLE	DOUBLE
Input Signal	4-20mA DC	
Impedance	250 ± 15 Ohm	
Supply Pressure	140-700 kPa (20-100 psi)	
Stroke	0-90°, 0-60°	
Air Connection	PT (NPT) 1/4	
Gauge Connection	PT (NPT) 1/8	
Conduit	PF 1/2 (G1/2)	
Explosion Proof	Exdm II BT6, Exdm II CT6, Exia II BT6	
Protection	IP66	
Ambient Temp.	-20°C - 70°C (Standard)	
Linearity	± 1% F.S.	± 2% F.S.
Hysteresis	± 1% F.S.	
Sensitivity	± 0.2% F.S.	± 0.5% F.S.
Repeatability	± 0.5% F.S.	
Air Consumption	3LPM (Sup = 140 kPa, 20 psi)	
Flow Capacity	80LPM (Sup = 140 kPa, 20 psi)	
Material	Aluminium Diecasting	
Weight	2.8kg (6.2lb)	



BUTTERFLY VALVES

THE COMBINATION OF LOW COST BUTTERFLY VALVES WITH **ALPHA** PNEUMATIC **ACTUATORS** AND ELECTRO-PNEUMATIC **POSITIONERS** PROVIDE THE MARKET WITH AN AFFORDABLE CONTROL VALVE FOR MANY DIFFERENT APPLICATIONS.

FEATURES

- ★ *ECONOMICAL VALVE*
- ★ *LIGHT WEIGHT*
- ★ *DISC AND SHAFT IN STAINLESS STEEL*
- ★ *FITS MOST FLANGE REQUIREMENTS*
- ★ *EPDM LINER*
- ★ *LOW PRESSURE DROP*
- ★ *BUBBLE TIGHT SHUTOFF*
- ★ *EASILY AUTOMATED*

SIZE RANGE: 50MM - 600MM



BALL VALVES

THE UNIQUE FLOW CHARACTERISTIC OF THE BALL VALVE TOGETHER WITH LOW PRESSURE DROP AND UNRESTRICTED FLOW MAKES IT THE CHOICE OF MANY PROCESS PLANT ENGINEERS.

FEATURES:

- ★ *HIGH PERFORMANCE VALVE*
- ★ *RANGE OF MATERIALS AVAILABLE*
- ★ *FLANGED AND SCREWED ENDS*
- ★ *TIGHT SHUT OFF*
- ★ *FULL BORE AND REDUCED BORE*
- ★ *EXCELLENT FLOW CHARACTERISTIC*
- ★ *FRICTIONLESS PTFE SEATS*

SIZE RANGE: 10MM - 300MM

50mm Ball Valve/ C75SR/ALP1000



DIAPHRAGM VALVES- ON-OFF AND MODULATING

THE SIMPLE FUNCTIONAL CONSTRUCTION OF DIAPHRAGM VALVES MAKES MAINTENANCE AND PIPELINE INSPECTION EASY. THE DIAPHRAGM MADE OF FLEXIBLE MATERIALS IS EASILY AND INEXPENSIVE TO REPLACE.



FEATURES

- ❖ 'A' TYPE AND 'KB' TYPE AVAILABLE
- ❖ BODIES AVAILABLE WITH VARIOUS LININGS INCLUDING - HALAR®.
- ❖ ECONOMICAL VALVE FOR VARIOUS APPLICATIONS.
- ❖ POSITIVE SHUTOFF.
- ❖ EASY MAINTENANCE.
- ❖ AFFORDABLE AUTOMATION. - VALVES CAN INCLUDE PNEUMATIC ACTUATORS WITH A RANGE OF LIMIT SWITCH BOXES, SOLENOID VALVES AND POSITIONERS FOR CONTROL APPLICATIONS.

SIZE RANGE; 15mm - 350mm

VARIOUS MAKES ARE SUPPLIED



PU OPEN FRAME PINCH VALVE

- * UNRESTRICTED FLOW.
- * EXTREMELY DURABLE POLYURETHANE SLEEVE.
- * EASY TO MAINTAIN.
- * IDEAL FOR SLURRY SERVICE.
- * VARIOUS BODY MATERIALS AVAILABLE.
- * PNEUMATIC ACTUATION FOR ON/OFF OR MODULATING SERVICE.
- * MANUFACTURED LOCALLY.



SIZE RANGE;
25mm - 300mm.

LIME DOSING VALVE

LIME DOSING VALVE

The AV Dosing Valve with a body in H.D.P.E. (High Density Polyethylene) overcomes the problems normally associated with dosing valves in that the valve becomes an integral part of the ring main allowing for precise control of dosing without any chance of product settlement. The valve is designed as a three way valve with two ports forming part of the ring main dosing taking place through the third port as per drawing.



ITEM	DESCRIPTION	MATERIAL
1	Plug	316 Stainless Steel
2	Seat	316 Stainless Steel
3	Body	H.D.P.E.
4	Top Plate	316 Stainless Steel
5	Side Stub (2)	H.D.P.E.
6	Bottom Stub	H.D.P.E.
7	Stem Guide	Glass Filled P.T.F.E.
8	Packing	P.T.F.E. Chevron
9	Gland Follower	316 Stainless Steel
10	Slip on Flange (Side) (2)	316 Stainless Steel
11	Slip on Flange (Bottom)	316 Stainless Steel



PQ CERAMIC PLUG & SEAT ANGLE VALVE

THE CERAMIC PLUG AND SEAT ENSURES EXCELLENT WEAR LIFE WITH THE FOLLOWING BENEFIT;

- *REDUCED PROCESS DOWNTIME*
- *INCREASED VALVE LIFE*
- *LESS REPLACEMENT AND INSPECTION OF VALVES*
- *REDUCED MAINTENANCE COSTS*
- *REDUCED SPARES INVENTORY*

**VALVE DESIGNED FOR ABRASIVE SLURRIES.
(MAXIMUM PARTICLE SIZE OF 2.00MM)**

SIZE RANGE; 100mm - 500MM



KNIFE GATE VALVES

FEATURES:

- * *UNRESTRICTED FLOW*
- * *RUBBER LINED*
- * *WAFFER PATTERN*
- * *ROKTUF, STAINLESS STEEL AND CARBON STEEL BODY MATERIAL*
- * *STAINLESS STEEL BLADE AND SPINDLE STANDARD*
- * *AUTOMATION OPTION.*

SIZE RANGE: 80MM - 500MM



PNEUMATIC ROTARY ACUTUATORS

THE C-SERIES ACTUATOR IS A RACK AND PINION DESIGN KEEPING PACE WITH 4TH GENERATION PNEUMATIC ACTUATORS.



FEATURES



- * POSITION INDICATION WITH NAMUR MOUNTING OF ACCESSORIES.
- * SPRINGS ARE RETAINED FOR SAFETY
- * TRAVEL ADJUSTMENT SIMPLIFIED AT CONVENIENT POSITION
- * DOUBLE ACTING AND SPRING RETURN UTILISE SAME BODY AND END CAPS
- * NBR O-RINGS AND LOW FRICTION GUIDES PROVIDE HIGH CYCLE AND LONG LIFE
- * EASILY MAINTAINED.
- * LOW COST AUTOMATION
- * ISO MOUNTING DIRECT TO SIMILAR VALVE

ACTUATOR MOUNTED TO BUTTERFLY VALVE AND FITTED WITH ALPHA E/P POSITIONER.



STAINLESS STEEL VERSION



LARGE ROTARY ACTUATORS -SCOTCH YOKE TYPE



UNITS MADE TO SUIT APPLICATION.

AVAILABLE WITH ACCESSORIES;
POSITIONER
SOLENOID VALVE
SWITCH BOX
AIRSET



- ◆ CORROSION PROOF BARREL
- ◆ EASY TO MAINTAIN- SIMPLE DESIGN AND CONSTRUCTION
- ◆ STAINLESS STEEL SHAFT
- ◆ POSITIVE SPRING RETURN ACTION OR DOUBLE ACTING
- ◆ SAFETY FEATURE FOR SPRING REMOVAL
- ◆ DOUBLE SEAL NOSE BUSH BEARING
- ◆ LARGE SIZE RANGE AND STROKE
- ◆ SUITABLE FOR MANY AUTOMATION APPLICATIONS

THE RUGGED "SCOTCH YOKE" ROTARY ACTUATOR IS DESIGNED FOR HIGH OUTPUT ON LARGER VALVES. COMBINATIONS OF CYLINDER SIZES PERMIT A VARIETY OF TORQUE OUTPUT TO SUIT PARTICULAR REQUIREMENTS OF VALVES. THE SCOTCH YOKE DESIGN ALLOWS MAXIMUM TORQUE AT BEGINNING AND END OF STROKE WHEN IT IS NEEDED MOST. THE SOLID STEEL CONSTRUCTION MAKES A ROBUST UNIT FOR THE MOST DIFFICULT CONDITIONS.

TORQUE OUT AVAILABLE FROM 25Nm TO 25000Nm.
CONSULT SALES TEAM

AUTOVALVE CC. P O BOX 10045 ASTON MANOR 1630.
www.autovalve.co.za



PNEUMATIC CYLINDERS

ON-OFF OR MODULATING

*FITTED TO GLOBE VALVES - GATE
VALVES - DIAPHRAGM VALVES -
PINCH VALVES - KNIFE GATE VALVES
- MANY OTHERS
ALSO SPECIAL APPLICATIONS*



FEATURES:

- ◆ CORROSION PROOF BARREL
- ◆ EASY TO MAINTAIN- SIMPLE DESIGN AND CONSTRUCTION
- ◆ STAINLESS STEEL SHAFT
- ◆ POSITIVE SPRING RETURN ACTION OR DOUBLE ACTING
- ◆ SAFETY FEATURE FOR SPRING REMOVAL
- ◆ DOUBLE SEAL NOSE BUSH BEARING
- ◆ LARGE SIZE RANGE AND STROKE
- ◆ SUITABLE FOR MANY AUTOMATION APPLICATIONS



SIZES AVAILABLE;

80mm DIAMETER TO 550mm DIAMETER

STROKE;

MINIMUM PRACTICAL TO 1.0-1.5 METRE



LIMIT SWITCHES BOXES

FEATURES

- ★ VISUAL POSITION INDICATION
- ★ WEATHER PROOF Ip67 STANDARD
- ★ Ex II VERSION AVAILABLE
- ★ DUAL CABLE ENTRY
- ★ MICRO SWITCH OR PROXIMITY OPTION
- ★ ROBUST CONSTRUCTION
- ★ COMPACT AND NEAT APPEARANCE
- ★ 90 DEGREE STANDARD ADAPTABLE FOR LINEAR STROKE.



SOLENOID VALVES

FEATURES

- ★ SPECIALLY DESIGNED FOR USE WITH NAMUR MOUNTING
- ★ LOW COST AUTOMATION
- ★ SINGLE AND DOUBLE ACTING VERSION
- ★ 3/2 AND 5/2 RANGE
- ★ 1/4" STANDARD



BALL VALVE FITTED WITH PNEUMATIC ACTUATOR, SOLENOID VALVE AND LIMIT SWITCH BOX.

NEAT * COMPACT * MODULAR.



SERVICE AND REPAIRS RETROFIT AND RE-ENGINEERING



Refurbishment of valves and actuators been in service for many years extends the life of the equipment at a fraction of the price of new.

Plant Maintenance contracts ensure service on time at planned Shut-downs at affordable prices.



Original actuators and positioners replaced on existing valves providing cost effective solutions and standardisation.

The use of Retrofit valve solutions to solve valve /equipment problems provides a cost effective alternative to purchasing new equipment



LARGE RANGE OF VALVES AND ACTUATORS

OXYGEN CONTROL VALVES



SEVERN-GLOCON PROCESS CONTROL VALVES



'NIL-COR' COMPOSITE BALL AND BUTTERFLY VALVES



VARIOUS SIZE ACTUATORS AND STROKES CAN BE ACCOMMODATED



PTFE AND RUBBER LINED SPECIALITY VALVES



PNEUMATIC ACTUATORS CAN BE SUPPLIED WITH OUTPUT TORQUE UP TO 43000NM AND ALSO SPECIAL STROKES TO 360°

S A APPOINTED AGENT FOR:

**NIL-COR
NORRIS**

AUTOVALVE CC. P O BOX 10045 ASTON MANOR 1630.
www.autovalve.co.za

CHECK CONTACT DETAILS ON OUR WEBSITE





3 WAY GLOBE VALVE



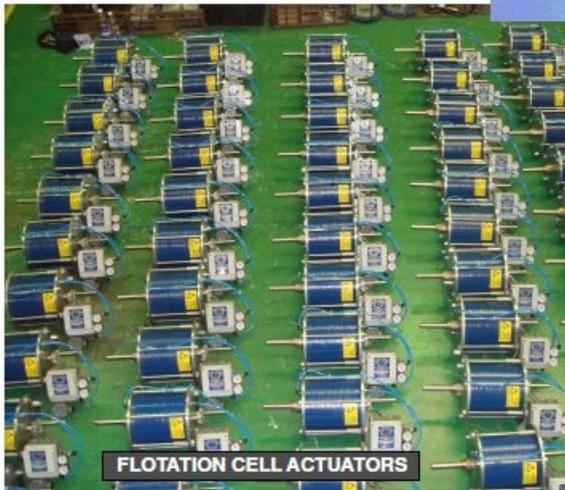
NIL-COR COMPOSITE BALL VALVES



ST/STEEL ANGLE DISC BUTTERFLY



ELECTRIC ACTUATED CONTROL VALVE



FLOTATION CELL ACTUATORS



KNIFE GATE VALVE



SMART POSITIONERS

OVER THE PAST 15 YEARS AUTOVALVE HAVE SUPPLIED LEADING COMPANIES THROUGHOUT THE WORLD WITH A LARGE VARIETY OF VALVES AND ACTUATORS FOR MANY VARIED REQUIREMENTS.

WE STRIVE TO PROVIDE QUALITY PRODUCTS AND EXCEPTIONAL SERVICE AT AFFORDABLE PRICES.

