



**VALVES, INSTRUMENTS, PUMPS, HEAT EXCHANGER, BASKET STRAINER, PRODUCT MANUAL,  
ENGINEERING CONSULTANT, CONTRACTOR, ENGINEERING SUPPORT**



**CATALOG**  
**2024**



**PT-CEM (PT. Cahaya Engineering Mentari)** is a company engaged in the business of importers and distributor of instrumentations: Control Valves, Regulating Valves, Safety Valves, Basket Strainer, Pumps, Heat Exchanger, Product Manual, etc.

**PT-CEM** combines advanced technologies, industry-leading expertise and an insatiable curiosity about the world to create sustainable solutions for customers.

## VISION - MISION

### Integrity

We are uncompromising in our honest and ethical behavior, which creates trusting relationships with one another, customers, suppliers & communities.

### Customer Focus

We actively listen to our customers to deeply understand their needs and deliver the unique solutions that ensure their success.

### Continuous Improvement

We constantly strive for improvement in all aspects of our business guided by metrics, feedback & our disciplined management process.

### Safety & Quality

We are unwavering in our commitment to the highest standards of safety and quality for ourselves and our customers.

### Support Our People

We attract, develop & retain exceptional people in an inclusive work environment, where all employees can reach their greatest potential.

### Innovation

We passionately pursue new technologies, capabilities and approaches to drive tangible value for our customers.

## OUR SERVICES

- Importers and Distributor of Instrumentations
- Pump Services & Pump's All-Parts Fabrication
- Engineering Consultant & Support Services
- Contractor
- Mechanical Seals Fabrication
- Turbine Component Services
- Rotating Equipment Services
- Reverse Engineering
- Valves Repair

## INDUSTRIES WE SERVED

- Petrochemicals
  - Oil and Gas
- Food Industry
- Water Treatment
- Power Plantation
- Chemical Industry
  - Energy Production, Biogas
  - Cement Plant and Steel Industry
  - Paper Industry (Pulp & Paper Prod.)

## PRODUCT BRANDS



# UNICON

Control Valves Product

Unicon Supplies a Diverse Range of Precision Manufactured: Standard & Severe Service Globe Valve, Triple Offset Butterfly Valve, High Performance Trunnion Ball Valve, Pressure Reducing Desuperheater Station Pressure Regulator, used for Oil & Gas, Petrochemical and Power Industries Worldwide.

## V100 Series Unbalance Type Globe Control Valve

**STANDARD BODY SPECIFICATION** Basic Design Standard : ANSI B16.34

**Body Style :** Straight way (2Way Globe), Angle Type. **Bonnet :** Plain (Standard), Fin & Extension, Bellows Seal, Long Extension (Cryogenic Service). **Size Range :** 1/2" to 6" (DN15... DN150). **Pressure Rating :** ANSI 150Lb to 2500Lb, JIS 10K to 180K, PN20 to PN420. **Operating Pressure Range :** Up to 4000 psi (g). Up to 280 Kg/cm<sup>2</sup> (g). **Operating Temperature Range :** -58 OF to +1,050 OF, -50 OC to +565 OC. Option: -320 OF to +1,526 OF, -192 OC to +850 OC. **End Connection :** Socket Weld - ANSI B 16.11, Butt Weld - ANSI B 16.25, FF/RF/RTJ Flange - ANSI B 16.5. Option : JIS Flange, DIN Flange, NPT/PT Screw. **Materials :** Carbon Steel (WCB, WCC, A105), Chrome-moly Steel (WC6, WC9, C12A, F11, F22, F91), Stainless Steel. (CF8, CF8M, CF3, CF3M, F304, F304L, F310, F316L), Duplex Stainless Steel, Monel, Al Bronz, Inconel 625, Hastelloy B/C, Other Alloy. **Actuator :** Pneumatic Diaphragm, Pneumatic Cylinder, Electric Motorized, Electro-Hydraulic.



## V200 Series Balance Type Globe Control Valve

**STANDARD BODY SPECIFICATION** Basic Design Standard : ANSI B16.34

**Body Style :** Straight way (2Way Globe). **Bonnet :** Plain (Standard), Fin & Extension, Bellows Seal Long Extension (Cryogenic Service). **Size Range :** 1 1/2" to 32" (DN40... DN800). **Pressure Rating :** ANSI 150Lb to 4500Lb, JIS 10K to 180K, PN20 to PN420. **Operating Pressure Range :** Up to 4000 psi (g). Up to 280 Kg/cm<sup>2</sup> (g). **Operating Temperature Range :** -58 OF to +1,050 OF, -50 OC to +565 OC. Option: -320 OF to +1,526 OF, -192 OC to +850 OC. **End Connection :** Socket Weld - ANSI B 16.11, Butt Weld - ANSI B 16.25, FF/RF/RTJ Flange - ANSI B 16.5. Option : JIS Flange, DIN Flange, NPT/PT Screw. **Materials :** Carbon Steel (WCB, WCC, A105), Chrome-moly Steel (WC6, WC9, C12A, F11, F22, F91), Stainless Steel. (CF8, CF8M, CF3, CF3M, F304, F304L, F310, F316L), Duplex Stainless Steel, Monel, Al Bronz, Inconel 625, Hastelloy B/C, Other Alloy. **Actuator :** Pneumatic Diaphragm, Pneumatic Cylinder, Electric Motorized, Electro-Hydraulic.



## V300 Series Three Way Globe Control Valve

**STANDARD BODY SPECIFICATION** Basic Design Standard : ANSI B16.34

**Body Style :** Bottom Flanged 3Way. **Bonnet :** Plain (Standard), Fin & Extension, Bellows Seal. **Size Range :** 3" to 12" (DN80-DN500). **Pressure Rating :** ANSI 150Lb to 600Lb (JIS 10K to 40K). **Operating Pressure Range :** Up to 900 psi (g) (63 Kg/cm<sup>2</sup> (g)). **Operating Temperature Range :** -58 OF to +1,050 OF (-50 OC to +565 OC). **End Connection :** Socket Weld - ANSI B 16.11, Butt Weld - ANSI B 16.25, FF/RF/RTJ Flange - ANSI B 16.5. Option : JIS Flange, DIN Flange. **Materials :** Carbon Steel (WCB, WCC), Chrome-moly Steel (WC6, WC9), Stainless Steel (CF8, CF8M, CF3, CF3M), Hastelloy B/C, Other Alloy. **Actuator :** Pneumatic Diaphragm, Pneumatic Cylinder, Electric Motorized, Electro-Hydraulic.



# HANYANG

BUTTERFLY VALVES

Hanyang Butterfly Valves are industrial valves used to control the flow of fluids in various piping systems. Characterized by their simple design, consisting of a circular disc (the butterfly) that rotates on a shaft to regulate the flow. The butterfly valve is installed in the pipeline and can be operated manually or automatically using an actuator.



Wafer Type  
Lever Operated



Lugged Type Gear Operated  
(Locking Device Type)



Flange Type  
Gear Operated



Wafer Teflon Seat Type  
Lever Operated



Lugged Type  
Hydraulic Operated



Flange Type Pneumatic  
Cylinder Operated



Hi-Performance Lugged Type  
Gear Operated PTFE Seat



Hi-Performance Flange Type  
Gear Operated RTFE Seat



Hi-Performance Wafer Type  
Gear Operated Metal Seat

The **Kinetrol** Pneumatic Actuator was later invented and **Kinetrol** patented its vane-type rotary pneumatic actuator, recognising the emerging need for quarter-turn valve and mechanism actuation.

Since then, the company has added many actuator control modules to meet the growing demand for more precise and sophisticated process control and monitoring. Apart from Actuators, **Kinetrol** also produces various types of Positioners.

### Double Acting Pneumatic Actuator

Kinetrol's double-acting vane-type rotary actuator models are renowned for their reliability and efficiency.



### Single Acting Spring Return Pneumatic Actuators

Kinetrol's spring return single acting rotary actuators offer the safest fail-safe operation, ideal for critical applications.



### Spring to Centre Actuators

Kinetrol's spring to centre models have a patented part-turn vane-type rotary actuator.



### 180 / 120 Degree

Kinetrol's 180 and 120 degrees pneumatic actuators are simple and compact, with no external moving parts.



### Steadyline Damped Actuator Control

Kinetrol's range of steadyline pneumatic actuator assemblies are precision valve actuators.



### Electrohydraulic

Kinetrol's EHD electrohydraulic actuators are designed for use in locations without a compressed air supply.



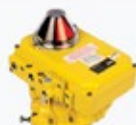
EL Electropneumatic Positioner



P3 On/Off Positioner



Explosion Proof P3 On/Off Positioner



AP Positioner



I/P Positioner

## EFS VALVES®

**EFS Valve**, also known as an **Electronic Flow Switch Valve**, is a device used in water systems to control the flow of water based on electronic signals, helping to prevent flooding or leakage.

The **EFS Valve** operates by receiving signals from sensors that detect changes in water flow, pressure, or temperature. When an abnormality is detected, the valve can close to stop water flow, protecting the system from damage.

**EFS Valves** are commonly used in buildings, industrial facilities, and agricultural settings to provide an extra layer of protection against water-related incidents. They can be integrated into smart systems for more efficient water management.

### PRODUCTS:

- ✓ Float Valves
- ✓ Safety And Relief Valves
- ✓ Pressure/Vacuum Relief Valves
- ✓ Bursting/Rupture Discs
- ✓ Control & Pressure Reducing Valves
- ✓ Alloy Steel Ball Valves
- ✓ Valve Silencer
- ✓ Flame Arrestors
- ✓ Plug Valves
- ✓ Bottom Drain Valve



Control and Pressure Reducing Valve



Modul M2 (PRV44 Pressure Reducing Valve)



Model PRV 54 (S1 Excess Pressure Valve)

### GAR-SEAL® Butterfly Valves

Used where corrosive, abrasive, and toxic media needs to be reliably controlled

**Features and Benefits :** Provide accurate control. Offer reduced maintenance. Increase operational reliability.

**Typical Applications :** Chemical, Petrochemical, Chlorine, Electro-plating. **Size Capability :** 2 inch / DN 50 up to 24 inch / DN 600. **Flange Connection :** ASME B16.5 class 150 lbs (design RF/FF), EN 1092 PN 10/16 (Design A/B) (Available upon request). **Body Strength :** DIN/EN 12516 T2 (DIN 3840). Tested within the scope of the inspection body designate by Module H1. **Operating Pressure :** 2 inch to 12 inch / DN 50 to DN 300: 232 psi / 16 bar (depending on operating temperature). Above 12 inch / DN 300: 145 psi / 10 bar (depending on operating temperature). **Temperature Range :** -40°F / -40°C up to 392°F / 200°C (depending on material).



### MOBILE-SEAL® Butterfly Valves

Used on road tanker vehicles, railway cars, silos, & other transportation & storage containers

**Features and Benefits :** Chemical resistance, EN 14432 approved. **Typical Applications :** Road tanker vehicles, Railway cars, Silos, Transportation and storage containers. **Dimensions :** DN 50 / 2 inch up to DN 150 / 6 inch. **Flange Connection :** ASME B16.5 class 150 lbs (design RF/FF), EN 1092 PN 10/16 (Design A/B) (Available upon request), DIN 28459 PN10 (DN 50 - DN100). **Body Strength :** DIN/EN 12516 T2 (DIN 3840). Tested within the scope of the inspection body designate by Module H1. **Operating Pressure :** 2 inch to 4 inch: 145 psi / 10 bar (depending on operating temperature). **Temperature Range :** -40°F / -40°C up to 392°F / 200°C (depending on material).



### SAFETY-SEAL® Butterfly Valves

Used where electrostatic charges must be avoided

**Features and Benefits :** Provides accurate control. Offers reduced maintenance. Increases operational reliability. Long life. Reduces maintenance efforts. **Typical Applications :** Corrosive, Abrasive, Toxic, Avoid electrostatic charges. **Dimensions :** 2 inch up to 24 inch / 5.08 cm up to 60.96 cm. **Flange Connection :** ASME B16.5 class 150 lbs (design RF/FF), EN 1092 PN 10/16 (Design A/B), (Available upon request). **Body Strength :** DIN/EN 12516 T2 (DIN 3840). Tested within the scope of the inspection body designate by Module H1. **Operating Pressure :** 2 inch to 12 inch / 5.08 cm to 30.48 cm: 232 psi / 16 bar. Above 12 inch / 30.48 cm: 145 psi / 10 bar (depending on operating temperature). **Temperature Range :** -40°F / -40°C up to 392°F / 200°C, depending on material.



VYC Industrial was founded in 1914, to be one of the pioneering companies in the design, manufacture and marketing of fluid regulation and stop valves in Spain.



Flange Safety Valve Full Lift Spring Loaded Carbon/Stainless Steel



Steam Trap



Check Valve & Strainer



Control and Regulation



Bleeding For Steam Boilers



Pressure Reducing Valve & Mixing Valves



Level Indicators Window Sight Glasses



Automatic Level Controller



Industrial Steam Boilers



Ultra Sonic Leak Detector

**PRODUCTS FEATURES:**

- ✓ Sizes from DN15 (1/2") up to DN300 (12")
- ✓ Flanged or welded connections
- ✓ Process temperature range between -30 ... +550°C
- ✓ Choice of analog or digital positioner
- ✓ Material & hydraulic tests certificate to EN 10204 3.1/3.2
- ✓ EN Pressure Classes of PN63 - PN630; ANSI Pressure Classes of ANSI 600 - ANSI 4500
- ✓ Leakage Class IV, V or VI acc. to FCI 70-2 (IEC 6534-4)
- ✓ Provided with pneumatic, electric or hydraulic actuator
- ✓ Hydraulic tests according to EN 12266-1 and API 598 standards
- ✓ Manufacturing under quality management system ISO 9001 - 2015



Ecoflo-GV High Pressure Control Valves



Ecoflo-GV Pneumatic and Electric Control Valves



Ecoflo-BV Pneumatic and Electric Ball Valves



Ecoflo-VBV V-Ball Control Valves



Ecoflo-BT Pneumatic and Electric Butterfly Valves



Ecoflo-AS Pneumatic and Electric Valves



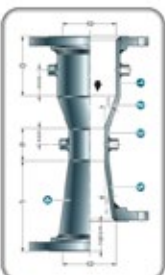
**Simer Instruments** is a company specializing in manufacturing & supplying various types of instruments for industrial applications, such as sensors, transmitters, & controllers. **Simer** aims to provide high-quality products for measuring & controlling parameters like pressure, temperature and flow in industrial processes.



Flow Meter Bar Orifice Annubar - Pitot



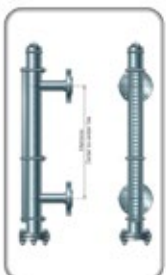
Orifice Plates for Ansi Flange Type RF



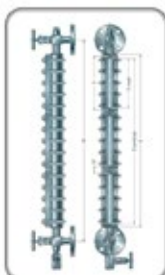
Venturi Tubes Flow Orifice Meters



Welding Neck Orifice Flanges - RF-WN



Magnetic Drive Level Indicator



Reflex Level Glass Indicator - LGR/CL



**APLISENS S.A.** is one of the leading manufacturers of high quality process instrumentation. The company was founded in 1992. Main factory and headquarters are located in Warsaw. From the beginning it has concentrated on electronic pressure and differential pressure measurement technology. The basic rules have always been: high quality, high flexibility and competent support to customers.

Today Aplisens, through its sales network in many countries, offers a wide range of products: • Differential Pressure Transmitters; • Hydrostatic Level Probes; • Level Transmitters; • Valves; • Digital Indicators; • Power Supplies, Separators; • Gauges. The constant development, high-tech production and ISO 9001 management system are the best warranty of quality of Aplisens products.



Smart Differential Pressure Transmitter APR-2000ALW



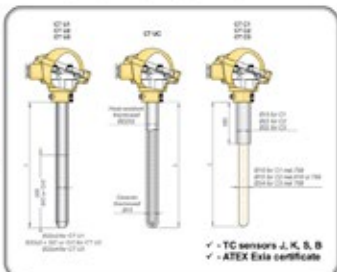
Level Switch Type ERH



Magnetic Level Switch EBH-XX-20



Thermowells OG1, OG2, OG3



Temperature sensors CT C, CT U (Thermocouples)

- ✓ TC sensors J, K, S, B
- ✓ ATEX Exia certificate

The **Emerson Valve** offers a wide range of flow control solutions for various industrial applications. These valves are known for their high performance, reliability, and versatility, and are designed to deliver high performance and reliability, built with robust materials and construction, ensuring long-lasting operation and minimal maintenance.

## PRESSURE SAFETY VALVE

Crosby Pressure Relief Valves are a robust and proven technology providing reliable overpressure protection in applications including air, gas, steam, vapor, liquid and two-phase media. Many series that we can offer :

### ✓ JOS-E, JBS-E, JLT-JOS-E, JLT-JBS-E, JOS-HE

The J-Series Pressure Relief Valve provides overpressure protection from very basic to the most demanding applications. Backed by over 140 years of engineering and application experience, its versatile and rugged design make it a proven solution for oil and gas, process and power industry overpressure protection.

### ✓ CROSBY OMNI-TRIM® DIRECT SPRING PRESSURE RELIEF VALVES

The Crosby OMNI-TRIM pressure relief valve is the proven solution for overpressure protection and for thermal relief applications on air, gas, vapor, liquid and steam. Its simple design makes it ideal for refineries, chemical and petrochemical plants, power plant auxiliary systems and pulp and paper mills.

### ✓ CROSBY SERIES 800 AND 900 OMNI-TRIM® PRESSURE RELIEF VALVES

Crosby's Series SOD adjustable blowdown and Series 900 fixed blowdown OMNI-TRIM® full nozzle pressure relief valves have a simplified, single trim design with superior application versatility.



## PRESSURE REDUCING VALVE

### FISHER 1098-EGR and 1098H-EGR REGULATORS

Fisher Types 1098-EGR and 1098H-EGR regulators provide economical and accurate pressure control in a wide variety of applications; natural gas distribution systems; fuel gas supply to industrial boilers, furnaces, ovens, and mixers; and large commercial/ industrial establishments such as shopping centers & schools. They are also used in plant air service and in liquid service.

The pilot-operated Types 1098-EGR and 1098H-EGR regulators both use inlet pressure as the operating medium, which is reduced through pilot operation to load the actuator diaphragm. Outlet or downstream pressure opposes loading pressure in the actuator and also opposes the pilot control spring.

## FISHER CONTROL VALVE

**Fisher ED, EAD, and EDR Single-Port Control Valves** have balanced valve plugs, cage guiding, and metal-to-metal seating for all general applications over a wide range of process pressure drops and temperatures. These general purpose, sliding-stem valves are used for either throttling or on-off control of a wide variety of liquids and gases. ED, EAD, and EDR valves are part of the versatile easy-e family of Fisher industrial control valves.

Compliance with the Clean Air Act—Optional **ENVIRO-SEAL™** packing systems provide an improved stem seal to help prevent the loss of process fluid. The ENVIRO-SEAL packing systems feature PTFE, Graphite ULF, or Duplex packing with live-loading for reduced packing maintenance.

## WORCESTER BALL VALVES

**Worcester Ball Valves** are high-performance shutoff valves designed for intermittent and continuous flow applications with temperatures to -425°F. They are known for their durability, cycle life, leak tightness, and automation capabilities.

**Worcester** offers a variety of ball valve types, including: **Series 44 Ball Valves:** These are three-piece ball valves that are considered the most respected ball valve design in the industry. They are known for their durability, cycle life, leak tightness, and automation capabilities. **Floating Ball Valves:** These are full port ball valves designed for ASME B.16.34, General Purpose and specific application requirements. They offer reliability and long service life over a broad pressure range. **3 Way Ball Valves:** These valves provide greater flexibility in operation and can function as a selector valve, directing flow from two inlet sources to a single outlet.

### PRODUCTS:

- ✓ Worcester 44/459
- ✓ Worcester F44
- ✓ Worcester 5 Series
- ✓ Worcester 5HP44
- ✓ Worcester F819/829
- ✓ Worcester 13/14 Series
- ✓ Worcester 18/19 Series
- ✓ Worcester AW44
- ✓ Worcester F51/519
- ✓ Spareparts



SPECIFICATIONS	
<b>Pressure Rating</b>	150 & 300
<b>Materials</b>	ASTM A352 LCB, ASTM A216 WCB & ASTM A351 CF8M, Other materials available on request to suit specific process applications.
<b>End Connections</b>	Flanged
<b>Valve Bores</b>	Full and reduced bore available
<b>Size Range</b>	1/2" to 10"
<b>Seat Materials</b>	Virgin PTFE, 15% or 25% Glass filled PTFE, Vespel, Delrin, Acetal, UHMWPE, Fluorofil, PEEK & Metal.

Rotork YTC is a series of pneumatic actuators designed for use in a wide range of industrial applications. These actuators are known for their reliability, durability, and high performance. YTC actuators offer several features that are commonly used in various industries, including: Oil and Gas, Chemical Processing, Power Generation, Water and Wastewater Treatment, and Mining.

### Application Guide

#### Simple Zero and Span Adjustment

- Internal hand dials and locking screws
- Reverse & direct acting settings.
- High vibration resistant.
- Internal feedback option.
- Auto / manual switch.

**YT-1000 L**

**YT-1000 R**


#### Compact and Lightweight Design for Modulating Applications

- Fail safe
- Modulating functions
- PID control
- Optional 4-20mA feedback

**YT-3100**


#### Fail Freeze Applications

- Zero air consumption
- Modulating functions
- PID control
- Optional 4-20mA feedback

**YT-2500**

**YT-2600**


#### Extended Features for All Applications

- Fail safe
- HART DD & DTM
- Non-contact sensor
- Basic PST capabilities
- YT-3300 only:
- Profibus, FF comm.
- YT-3400 only:
- Enhanced diagnostic
- Digital I/O comm.
- NE107 Alarms log

**YT-3300**

**YT-3400**


#### Enhanced Diagnostic & PST for Control & On-Off Valves

- Fail safe
- Enhanced diagnostic
- HART DD & DTM
- Digital I/O comm.
- NE107 Alarms log
- Non-contact sensor

**YT-3700**

**YT-3400**


### Technical Guide

#### Simple Zero and Span Adjustment

- Internal hand dials & locking screws for 4-20 mA range adjustments.
- Full & 1/2 split range simple settings.
- No resonance between 5 to 200 Hz.
- Available on weather-proof model only.

**YT-1000 L**

**YT-1000 R**


#### Torque Motor / Flapper Nozzle Technology

- Extremely reliable
- Responsive and precise
- High resistance to humidity and contaminated air
- Low air consumption

**YT-3100**


#### Piezo Valve Technology

- Fail freeze (fail last)
- Zero air consumption

**YT-2500**

**YT-2600**


#### Torque Motor / Flapper Nozzle Technology

- Extremely reliable
- Responsive and precise
- High resistance to humidity and contaminated air
- Low air consumption

**YT-3300**

**YT-3400**


#### Torque Motor / Flapper Nozzle Technology

- Extremely reliable
- Responsive and precise
- High resistance to humidity and contaminated air
- Low air consumption

**YT-3700**

**YT-3400**


Low temperature application down to -30 °C

Arctic temperature application down to -55 °C



**Flowserve Automax** is a leading provider of **Valve Automation Systems**, offering pneumatic actuators for various industrial applications. The **Automax** Supernova series features rack and pinion actuators designed for butterfly, plug, or ball valves, providing both double acting and spring return functionality. The **Automax** series boasts several features and benefits, including: Compact design for double acting and spring return functionality. Wide range of materials for diverse applications. High torque output from 25 to 2.2 million in-lbs. Durability and reliability for demanding industrial environments. Easy maintenance and repair. **Automax** is recognized as a global leader in **Valve Automation Systems**, with a wide range of pneumatic actuators suitable for various torque requirements, and are used in diverse industries, including oil and gas, chemical processing, power generation, and water treatment.



Automax PMV WS/WM Series Switchbox



Automax W Series Aluminium Switchbox



Automax X Series Explosion Proof Ultra Switchbox



Flowserve Apex 5000 Pneumatic Positioner



Flowserve Apex 7000 Pneumatic Positioner



Flowserve Apex 8000 Pneumatic Positioner



Flowserve Automax Namur NH52M 5/2 and 3/2 Solenoid



Flowserve D3 Digital Positioner



Flowserve Kammer Control Valve



Flowserve Logix 3200 Digital Positioner



Flowserve Logix 3800 Digital Positioner



Flowserve PMV EPS Electro Pneumatic Positioner



**CDB Engineering** specializes in the design and manufacture of industrial valves, with a particular focus on **Plug Valves**. The metal-to-metal seat design ensures high performance & safety in critical applications. It's offer a comprehensive range of in-house engineered plug valves to meet diverse customer specifications, including: **Ball Plug Valves**: These are used for on/off and throttling applications. Feature with a floating ball design for reliable operation. **Eccentric Plug Valves**: These are designed for high-pressure, high-temperature, and severe service applications. The eccentric plug design provides tight shut-off. **Tapered Plug Valves**: These valves use a tapered plug design to provide tight shut-off and reliable performance, even in dirty or abrasive service conditions. **Resilient Seated Plug Valves**: These valves use an elastomer seal to provide bubble-tight shut-off, are well-suited for applications with moderate pressure and temperature requirements. **Lined Plug Valves**: These valves feature a protective lining material, such as Teflon or Kynar, to resist corrosion and chemical attack in aggressive service environments.



Lubricated Pressure Balance Plug Valve



Expanding Plug Valve



PTFE - Sleeve Plug Valve



PFA - Lined Plug Valve



3 Way Lubricated Plug Valves



Thermodynamic Steam Trap - Disc Type



Thermostatic Steam Trap - Balanced Pressure Type



Thermostatic Steam Trap - Bi-Metallic Type



Mechanical Steam Trap - Float &amp; Thermostatic Type



Mechanical Steam Trap - Inverted Bucket Type



Sight Glasses



UL Basket



Cast Steel Basket



Simplex Basket

**RTK (Regeltechnik Kornwestheim)** offers a range of **Control Valves** for various industrial applications. Here are some of the key features of RTK valves:

**Versatility:** RTK valves are designed for use in a wide range of industries,

including chemical, petrochemical, power generation, and more. They can handle a variety of media, including liquids, gases, and steam. **Precision Control:** RTK valves offer precise flow control, allowing for accurate regulation of the process media.

They are available in different control characteristics, such as linear, equal percentage, and quick opening, to suit various application requirements. **Robust Construction:** RTK valves are built with high-quality materials and robust construction to ensure long-term reliability and durability. They are designed to withstand harsh operating conditions, such as high temperatures, pressures, and corrosive environments.

**Customization:** RTK offers a wide range of valve sizes, body materials, and actuator options to meet the specific needs of each application. Customers can customize the valves to suit their unique requirements, ensuring optimal performance and compatibility. **Compliance and Certifications:** RTK valves are designed and manufactured to comply with various industry standards and regulations, such as ASME, DIN, and EN. They may also be certified for use in hazardous areas, meeting the requirements of ATEX, IECEx, or other relevant safety standards.

These features make **RTK Valves** a popular choice for a wide range of industrial applications that require precise, reliable & durable flow control solutions.

### PRODUCTS:

#### ✓ SHUT-OFF AND CONTROL VALVES

Motorized control valves for throttling, mixing and diverting of liquids and gases.

#### ✓ ACTUATORS

Electric and pneumatic actuator for control and shut/off valves.

#### ✓ MANUAL STOP VALVES AND STRAINERS

Manual stop valves for water, steam, air, thermal oil and other neutral and non aggressive fluids up to 400°C.

#### ✓ VALVES FOR SPECIAL APPLICATIONS

Heavy duty control valves, electric control valves with fail closed unit, steam-converting valves, multi nozzle lancer desuperheater, feed-water control valves with re-circulation connection, continuous blow down valves, bottom blowdown valves, valves for discharge / re-circulation control.

#### ✓ SELF OPERATED VALVES

Pressure regulators, Excess pressure valves.

#### ✓ SENSORS AND ELECTRIC COMPONENTS

Digital controller, Analog controller, Switch gears.



Shut-Off Control Valve



Pressure Regulator



Electric Actuator



Pneumatic Actuator

Founded in 1977, **KPC Corporation** has served key customers in oil & gas, petrochemical, mining, and power generation industries, manufacturing a variety of specialized alloy steel valve and engineered material. Continuous Research and Development, combined with commitment to high quality has earned KPC international awareness as the leading valve manufacturer.

KPC has been dedicated to fulfill the needs of customers with the most up-to-date and advanced technology, quality assurance in design, development and production. KPC Corporation is firmly standing toward its vision to be the Global Best with 5 state-of-the-art production facilities.

KPC understands its role of pioneering valve technology and responding to constant market challenges. Experienced engineers at KPC continue to develop innovative solutions by cooperating with the nation's renowned universities and scientific institutions.

KPC values confidence, service and pride. KPC will always be dedicated to deliver high quality and customer satisfaction.

### PRODUCTS:

#### ✓ Automated Ball Valve

#### ✓ Trunnion Mounted Top Entry Ball Valves

#### ✓ Wedge Seal Top Entry Ball Valves

#### ✓ 3 Piece Trunnion Ball Valves

#### ✓ 2 Piece Floating Ball Valves

#### ✓ Cryogenic Ball Valves

#### ✓ Titanium Valves

#### ✓ Flanges



Automated Ball Valve



Trunnion Mounted Top Entry Ball Valves



Wedge Seal Top Entry Ball Valves



3 Piece Trunnion Ball Valve



2 Piece Floating Ball Valves



Cryogenic Ball Valves



Titanium Valves

**Asung Plastic Valve** is a type of valve made of plastic materials, commonly used in various industries for controlling the flow of fluids. It is known for its durability, corrosion resistance, and lightweight properties, making it suitable for handling a wide range of liquids and gases.

**Asung Plastic Valves** are available in different types and sizes, each designed for specific applications. Some common types include ball valves, butterfly valves, check valves, and solenoid valves. These valves are made from various plastic materials such as PVC, CPVC, polypropylene, and polyethylene, depending on the required chemical compatibility and pressure ratings. Commonly used in residential and commercial plumbing systems, water treatment plants, chemical processing industries, food and beverage industries, and irrigation systems. Their lightweight nature makes them easy to install and maintain, and are generally more cost-effective compared to metal valves.

**Asung Plastic Valves** offer several advantages over metal valves, including:

**Corrosion Resistance:** Plastic materials are not susceptible to corrosion, making them ideal for handling corrosive fluids. **Lightweight:** Plastic valves are lightweight and easy to handle, reducing installation and maintenance costs. **Low maintenance:** Plastic valves require minimal maintenance and have a longer lifespan compared to metal valves. **Cost-effectiveness:** Plastic valves are generally more cost-effective than metal valves, making them a budget-friendly option.

However, it's important to note that plastic valves may have limitations in terms of temperature and pressure ratings compared to metal valves. Therefore, it is crucial to carefully select the appropriate plastic valve based on the specific application requirements.



**Hafner Pneumatic** is a Leading Provider of Industrial Automation Solutions. **Hafner Pneumatic** is a renowned manufacturer and supplier of industrial automation components and systems. It's offer a wide range of products, including pneumatic cylinders, valves, actuators, and air preparation equipment. **Hafner Pneumatic** is dedicated to providing high-quality products and services to its customers, with a team of experienced engineers and technicians who are constantly developing new and innovative solutions. **Hafner Pneumatic** has a global presence, with operations in North America, Europe, and Asia, are committed to providing local support to their customers around the world.



HAITIMA manufacturer was founded in 1984 with capital twenty-five million U.S. dollars. Through the years, "perfection" has been the only goal we pursue. In order to satisfy customers, with continuous efforts, we are working towards perfection through a quality assurance system, which has given us the ISO 9001, PED, PESR, DNV, ABS, Lloyd's, BV marine certificate, AD 2000, CRN Registered, REACH, RoHS. With persistence and effort, we have become one of the leading enterprises of valves and fittings in Taiwan and China. Our organization is dedicated to provide our customers with best service of every aspect. We strongly believe, that the friendship and trust given by our customers, is the great treasure we have.



Norbro Flowserve Pneumatic Actuators is a leading manufacturer of pneumatic actuators, specifically known for their rack and pinion design. The 40R series is particularly popular, offering high performance and reliability for various quarter-turn valve applications. Some advantages that Norbro Flowserve Pneumatic Actuators offers including: **Unique guide rod design:** Minimizes friction and wear, ensuring smooth operation and extended service life. **Interchangeable mounting kits:** Allows for easy customization and adaptation to different valve configurations. **Limit stops in both stroke directions:** This enhances control and prevents over-travel, protecting the actuator and valve. **Wide range of applications:** Suitable for diverse industries like petrochemical, food & beverage, steel production, pharmaceuticals, and more.



#### PRODUCTS:

- ✓ Series 33 180° Pneumatic Actuator
- ✓ Series 40 90° Pneumatic Actuator
- ✓ Series 75 Electric Actuator
- ✓ Series 61 Two-Stage Electric Actuator
- ✓ Series RDB/BMGD
- ✓ Rack and Pinion 40R
- ✓ Spareparts

#### OPERATING CONDITIONS

<b>Pressure Limitation</b>	8.3 Bar Maximum. For higher pressures, contact our sales office.
<b>Media</b>	Air or non-corrosive fluid
<b>Temperature Range</b>	Standard -20°C to +100°C. Low temperature variant -40°C to +85°C. High temperature variant -20°C to +150°C
<b>Travel (All Sizes)</b>	Average 92° total travel including nominal 1° overtravel both clockwise and anti-clockwise.
<b>Extended Travel Opt.</b>	180°, 120° - Series 33. For further options consult the Sales Office.
<b>Adjustable Travel Stop</b>	Option available to adjust actuator stroke through 20° from each end of travel.


 Magnetic Drive  
Pumps

 Motor Driven  
Metering Pumps

 Electromagnetic  
Metering Pumps

 Pneumatic Drive  
Bellows Pumps

 Rotary Displacement  
Pumps


Air Pumps


 Reciprocating Diaphragm  
Liquid Pumps


Water Quality Control

Leading Chemical Pump Brand **Iwaki** is recognized as the world's leading brand in fluid control equipment, particularly in the development of chemical pumps. Their focus on innovation and cutting-edge technology sets them apart in the industry.

**PRODUCTS:**
**PUMPS**

- ✓ Magnetic Drive Pumps
- ✓ Motor Driven Metering Pumps
- ✓ Electromagnetic Metering Pumps
- ✓ Pneumatic Drive Bellows Pumps
- ✓ Rotary Displacement Pumps
- ✓ Air Pumps
- ✓ Reciprocating Diaphragm Liquid Pumps

**SYSTEM PRODUCTS**

- ✓ Water Quality Control



EBARA Corporation is a global leader in the design, development, and supply of high-quality pumps and pumping systems for various applications such as water supply, wastewater treatment, and more. EBARA offers a wide range of pumps including centrifugal pumps, submersible pumps, and booster systems.

EBARA pumps are known for their innovative technology and high efficiency. They are designed to meet diverse industrial and municipal needs, delivering reliable performance and durability. EBARA's pumps are often used in sectors like agriculture, construction, and manufacturing.


 Closed Coupled Centrifugal  
Pump 3 Series 2 Poles

 Dual Impeller  
Centrifugal Pump 2C0X

 End Suction Process Pump  
API 610 UCW

 End Suction Volute  
Monoblock Pump GSD

 End Suction Volute  
Pump GS

 End Suction Volute  
Pump FSA-FS

 Horizontal Double Suction  
Volute CN 200-500 MM

 Horizontal End Suction  
Volute Process Pump GSO

 Horizontal Multistage Pump  
Compact

 In-Line Centrifugal  
Pump in AISI 304 LPS

 Mono block End Suction  
Volute Pump FSDA

 Open Impeller Centrifugal  
Pump DWO

 Split Casing Centrifugal  
Pump CNA-CSA

 Stainless Steel End Suction  
Volute Pump GSS

 Submersible Pump  
DL-DF & DS-DVS

 Submersible Sewage Pump  
(Single Impeller) DML

 Submersible Sewage  
Pump DW-DWGX

 Vertical Multistage  
Pump EVMS

### What is CEP PULLEY?

"CEP PULLEY" stands for Combination Eco Pulley. It's the world's first non-casting type of assembly air-cooled pulley that is born by a national research & development project.



JOY &amp; HAPPINESS

[www.joyto.br](http://www.joyto.br)

### CEP Advantage

#### 1. 50-65% Weight Reduction

It is 50-65% lighter than the current standard pulley, and the bearing replacement cycle has been doubled. This means that workers will experience less fatigue and reduced working hours when removing or installing it in the field. As a result, we can expect increased productivity and lower labor costs.

#### 2. We offer rigid materials such as basic PO and SUS for product balancing

Precise press mold work, machine calibration, and dynamic balancing were applied.

The product is highly abrasion-resistant and has a long service life and maintenance cycle, reducing replacement costs.

#### 3. RIM Site SUS304 Material Applicable

When applied to environments with high moisture exposure, such as cooling towers and dehydrators, the RIM can be made of SUS304 material, separately improving pulley wear caused by rust that causes V-belt friction.

#### 4. Designed with air-cooled construction

When the air is circulated into the belt grooves, it lowers the belt temperature, which extends the belt life 1.52 times. For that reason, cost savings can be expected by reducing maintenance costs and extending the service life of related parts such as bearings.



## COUPLING

## FALK

## NBK

### REXNORD


 Rex Omega  
Type Spacer


Viva Coupling



Rex Omega


 Addax  
Composite Couplings

 Jaw Coupling  
Type L


Type SW



Rubber SW RRS



Type RRS



Type RRL

### THOMAS



AVR



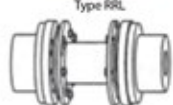
DBZ-B



DBZ-C



Series S2



Series 71

### NORMEX

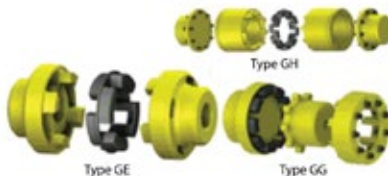


Normex Type E (NM)



Type G

### FlexoMax



Type GE

Type GG

Type GH

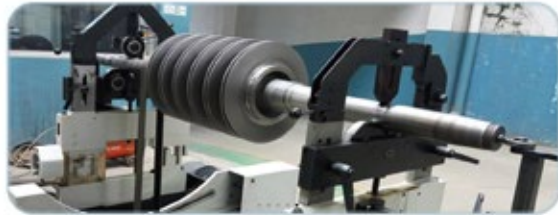
### KYUSHU HASEC



Gear Coupling Type NSE

## ROTATING EQUIPMENT SERVICE

(SERVICE, REPAIR, RECONDITIONING, MANUFACTURING AND OVERHAUL OF ROTATING EQUIPMENT)



Rotating Equipment that we can work on includes Industrial Pumps, Axial Pumps, Centrifugal Pumps, Industrial Compressors, Industrial Electric Generators, Shafts, small to medium sized Steam Turbines, Gear Boxes, ID/FD Fans, Loading Arms, and other Rotating Equipment.

Our Rotating Equipment services include Reconditioning, Welding Repair, Machining, Inspection and Field Service.

### The facilities we have to support this work include:

- ✓ Machining machines (lathe, milling and drilling)
- ✓ Welding Machines (TIG, MIG, and Arc)
- ✓ Compressor machine and sandblasting equipment
- ✓ Various measuring tools, and
- ✓ Dynamic Balance Machine

### Rotating Equipment Reconditioning & Balancing Services:

- ✓ Reconditioning & Balancing of Industrial Steam Turbines (small to medium)
- ✓ Industrial Pump Reconditioning
- ✓ Reconditioning of Axial and Centrifugal Pumps
- ✓ ID/FD Fan Reconditioning and Balancing
- ✓ Recondition Gear Box
- ✓ Reconditioning Loading Arm
- ✓ Other similar reconditioning

### Welding Repair Rotating Equipment Services:

- ✓ Repair Rotating Equipment with TIG, MIG, or Arc Welding
- ✓ Rebuild Rotating Equipment
- ✓ Rebabbit Bearings
- ✓ Steam Turbine Component Welding Repair
- ✓ Rotating Welding Equipment Repair

### Rotating Equipment Component Manufacturing Services:

- ✓ Manufacturing of Industrial Pump Components
- ✓ Manufacturing of Steam Turbine Components
- ✓ Manufacturing Compressor Components
- ✓ Shaft Manufacturing
- ✓ Making Journal Bearings

### Rotating Equipment Inspection Services:

- ✓ Penetrant Inspection Services
- ✓ Magnetic Inspection Services
- ✓ Ultrasonic Inspection Services
- ✓ Hardness Test Services
- ✓ Surface Roughness Inspection Services
- ✓ Other similar Inspections

### Field Service Services:

- ✓ Rotating Equipment Overhaul Services
- ✓ Inspection Services
- ✓ Unit Installation Services
- ✓ Reverse Engineering Services
- ✓ Rotating Equipment Repair Services

### Dynamic Balancing Services:

- ✓ Steam Turbine Balancing Services
- ✓ ID/FD Fan Balancing Services
- ✓ Multi Stage Rotor Balancing Services
- ✓ Starbowl Balancing Services
- ✓ Shaft Balancing Services



**CEM**  
Flow Control

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