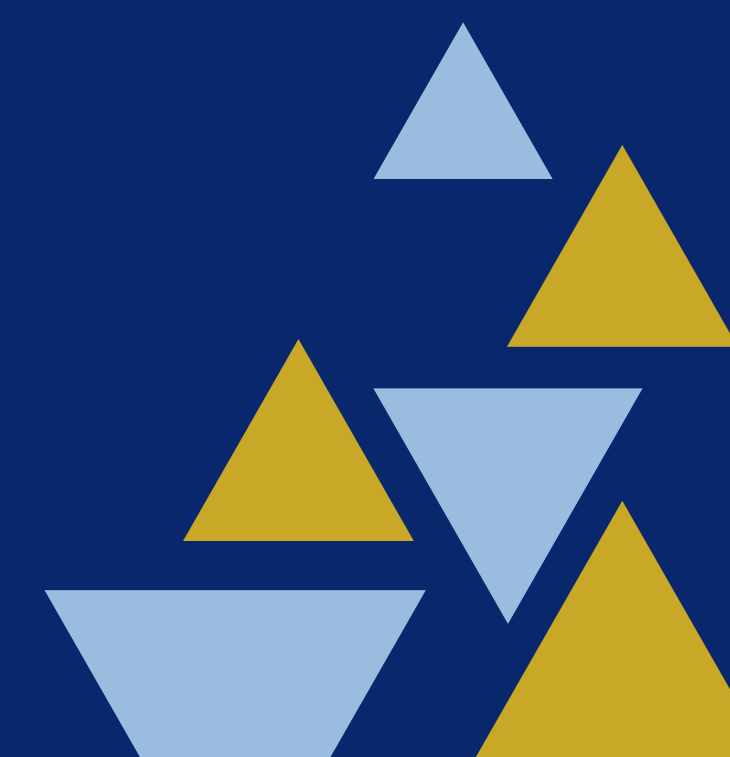




COMPANY PROFILE

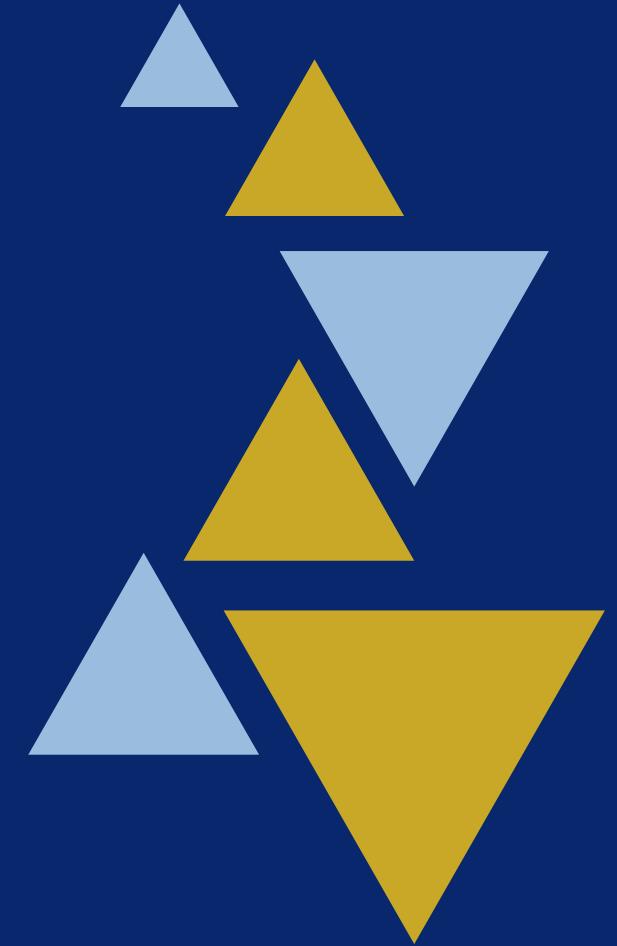
KRISTA AKSIS PENTAMAS

kristaaksispentamas.com





PROVIDING COMPREHENSIVE SOLUTIONS FOR YOUR BUSINESS NEEDS



We believe that effective communication with our partners is essential for successful project management. With an extensive network of clients both locally and internationally, we have facilitated the supply of electrical, instrument, and mechanical products. Our proficiency in working with local labor and staff has significantly accelerated the progress of our clients' on-site projects.

VISION & MISSION

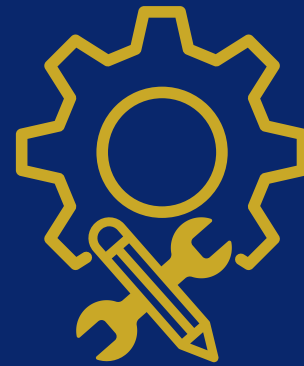
Our vision is to become a trusted partner in building sustainable and high-quality infrastructure in Indonesia. We are committed to:

- Providing innovative and quality construction services.
- Pioneering environmental sustainability and workplace safety.
- Enhancing the quality of life for communities through impactful projects.

kristaaksispentamas.com



WHY CHOOSE US?



Experience

With years of experience in the construction industry, KAP brings expertise and deep knowledge to ensure the success of every project.



Quality

We prioritize the highest standards of quality in every aspect of our work, from material selection to subcontractor management.



Commitment

Customer satisfaction is our top priority. We strive to build long-term relationships based on trust and transparency.

OUR SERVICES



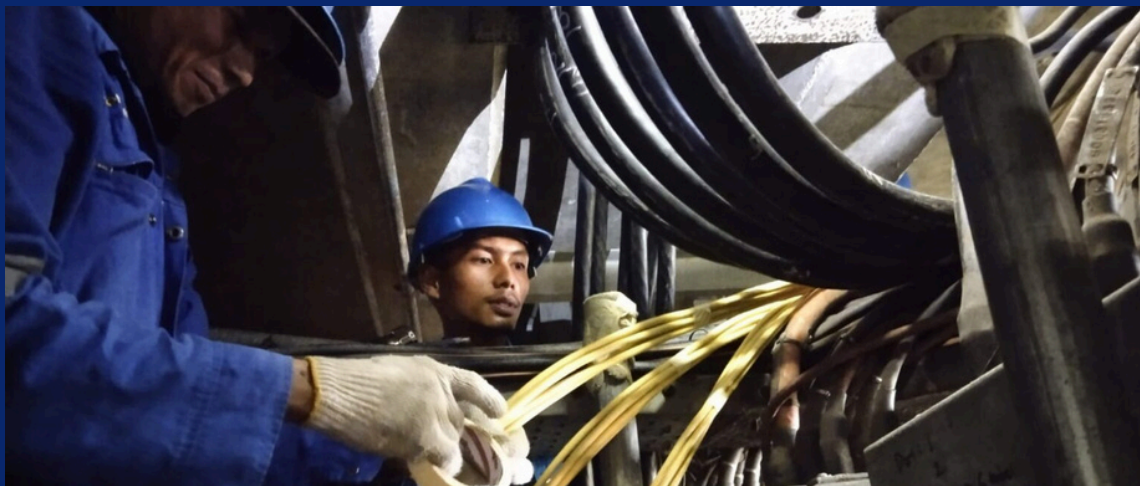
Connecting

Bringing you closer to our best partners and products



Consulting

We're prepared to give you the best solution



Building

Our professional team is ready to build the best for your project.



Implementing

We are set to implement top-tier solutions for your projects.



PRODUCT TRI-SEN



TS300

DIGITAL TURBINE
GOVERNOR

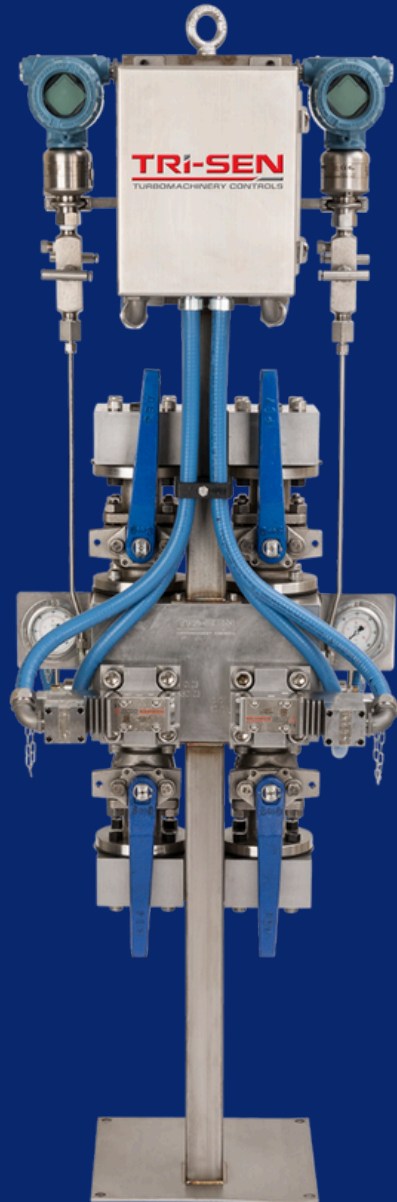
The first self-powered digital turbine governor. For your applications where there's just not any power, the TS300 can run using power generated from two speed probes. It also has a back-up battery, providing power when the turbine is stopped or operating at low RPM



310SV

SINGLE-VALVE
STEAM TURBINE
CONTROL

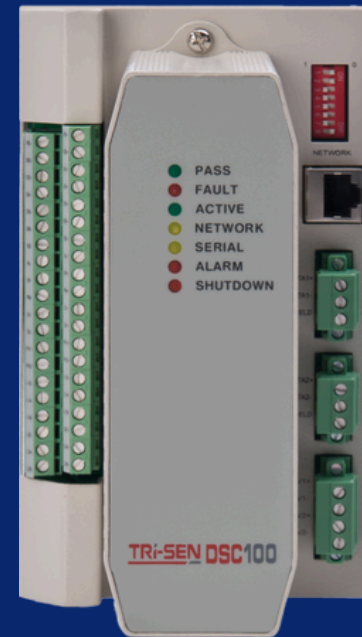
The 310SV is a configurable controller that provides automatic startup sequencing, speed control and process control for a one-valve steam turbine driving a mechanical load (e.g. pump, fan, compressor). A powerful PC configurator allows the user to choose from a wide selection of control options to match the turbine operational requirements.



TENTRA SENTRY

HYDRAULIC TRIP SYSTEM

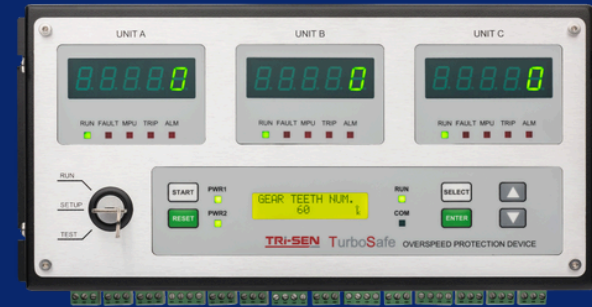
The first quad-redundant, on-line repairable, on-line testable hydraulic trip system independently verified to meet SIL 3.



DSC100

DIGITAL SERVO CONTROLLER

The DSC100 is a small, fully functioned digital servo controller that's easy to configure, easy to calibrate, easy to operate, easy to install and, in the unlikely event it needs maintenance, easy to replace on-line. Your rotating equipment engineers and technicians will appreciate the ease of use, and you'll appreciate that it's easy on your project budget. The DSC100 is a digital servo controller that's easy to love.



TURBO SAFE

OVERSPEED
DETECTION AND
TRIP

The TurboSafe is designed to replace a traditional mechanical trip bolt on steam or gas turbines, power turbines, and other rotating equipment. It's purpose-built to provide reliable overspeed trip protection for rotating equipment using magnetic speed sensors to determine rotational speed. Like the other Tri-Sen configurable products, the TurboSafe includes an intuitive configuration interface, so it's easy to set-up and simple to operate.



PASSIVE SPEED PROBES

TURBOMACHINERY CONTROL ACCESSORIES

Tri-Sen Systems offers a variety of turbomachinery control peripherals and accessories to accompany our control systems, including but not limited to servo controllers, LVDTs, hydraulic actuators, speed pick-ups, and gears.

PRODUCT **MEA**

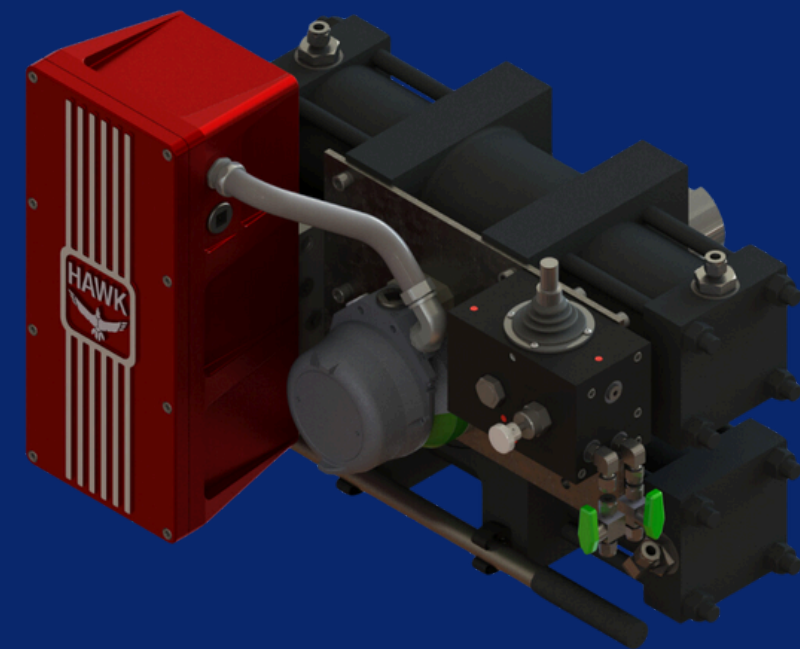
MEA HAWK ACTUATOR

SELF-CONTAINED ACTUATOR FOR MODULATING SERVICES

HAWK DAMPER DRIVES

This format is ideal for louvers and dampers

- Standard rotation up to 360 degrees
- Standard torques between 2500 lbf-in (282 N-m) and 400,000 lbf-in (45,193 N-m)
- Slew rates up to 0.3 seconds per 90 degrees
- Fail-safe capable
- Low power consumption





HAWK LINEAR ACTUATOR

This format is ideal for gate and globe valves, and other linear actuation devices

- Standard stroke lengths up to 60 inches (1.52 meter)
- Standard thrusts up to 100,000 lbf (444,822 Newton)
- Speeds up to 0.2 seconds per inch
- Fail-safe capable
- Low power consumption



HAWK ROTARY ACTUATOR

This format is ideal for butterfly and ball valves

- Standard rotation up to 360 degrees
- Standard torques between 2500 lbf-in (282 N-m) and 400,000 lbf-in (45,193 N-m)
- Slew rates up to 0.3 seconds per 90 degrees
- Fail-safe capable
- Low power consumption

MEA RAVEN ACTUATOR

SELF-CONTAINED ACTUATOR FOR ON/OFF SERVICES

RAVEN LINEAR ACTUATOR

Designed for gate and globe valves and other linear actuation devices used during isolation or ESD valve operation

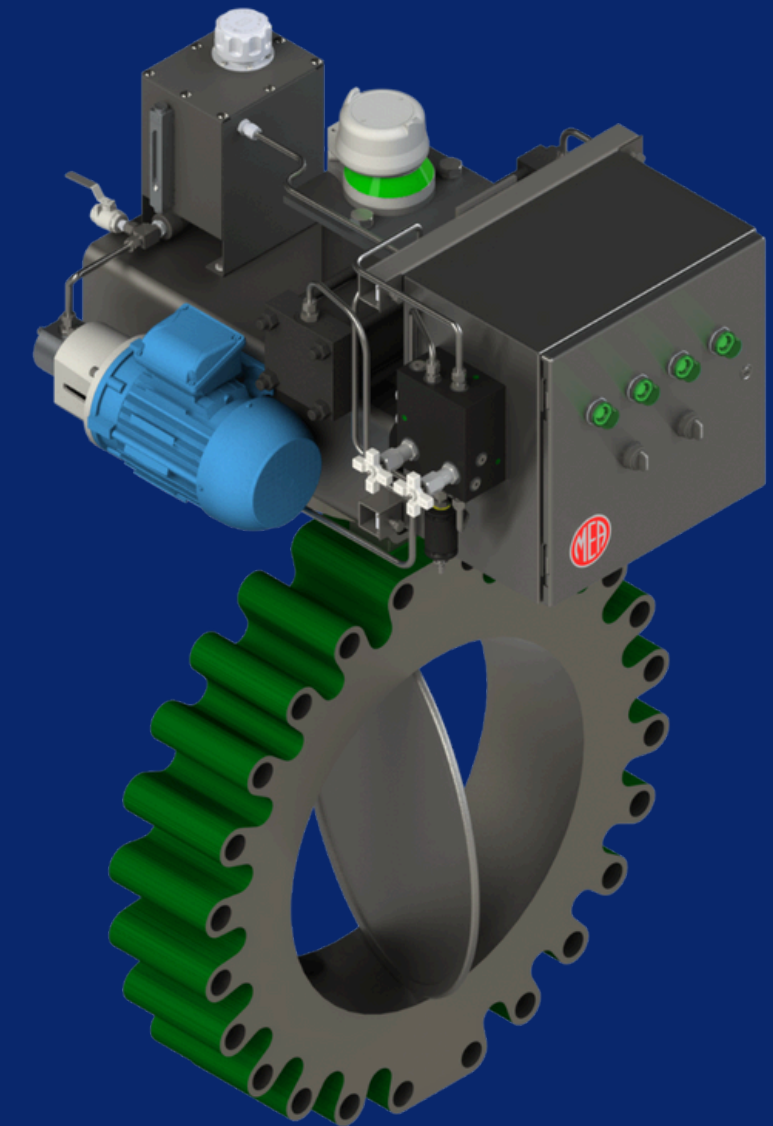
- Standard stroke lengths up to 60 inches (1.52 meter)
- Standard thrusts up to 100,000 lbf (444,822 Newton)
- Speeds up to 0.5 seconds for full stroke
- Local/Remote and On/Off switches
- Power supply: 24VDC / 120VAC / 208VAC / 240VAC / 480VAC / 575VAC
- Input signal: 24 VDC pulse or constant, 110 VAC/VDC pulse or constant, 4-20 mA
- Position feedback: OPEN/CLOSE limit switches, 4-20 mA
- Hazardous area rated
- Operating temperatures varies between -40F to 250F (-40C to 121.1C)
- Fail-safe capable
- Available options for 1oo1, 2oo2, 2oo3 Emergency Shut Down Systems (ESD)
- Low power consumption



RAVEN ROTARY ACTUATOR

Designed for ball valves and butterfly valves and other rotary actuation devices used for isolation or ESD valve operation

- Standard rotation up to 360 degrees
- Standard torques between 2500 lbf-inch (282 N-m) and 400,000 lbf-inch (45,193 N-m)
- Slew rates up to 0.3 seconds per 90 degrees
- Local/Remote and On/Off switches
- Power supply: 24VDC / 120VAC / 208VAC / 240VAC / 480VAC / 575VAC
- Input signal: 24 VDC pulse or constant, 110 VAC/VDC pulse or constant, 4-20 mA
- Position feedback: OPEN/CLOSE limit switches, 4-20 mA
- Hazardous area rated
- Operating temperatures varies between -40F to 250F (-40C to 121.1C)
- Fail-safe capable
- Available options for 1oo1, 2oo2, 2oo3 Emergency Shut Down Systems (ESD)
- Low power consumption



MEA HAWK SWITCH

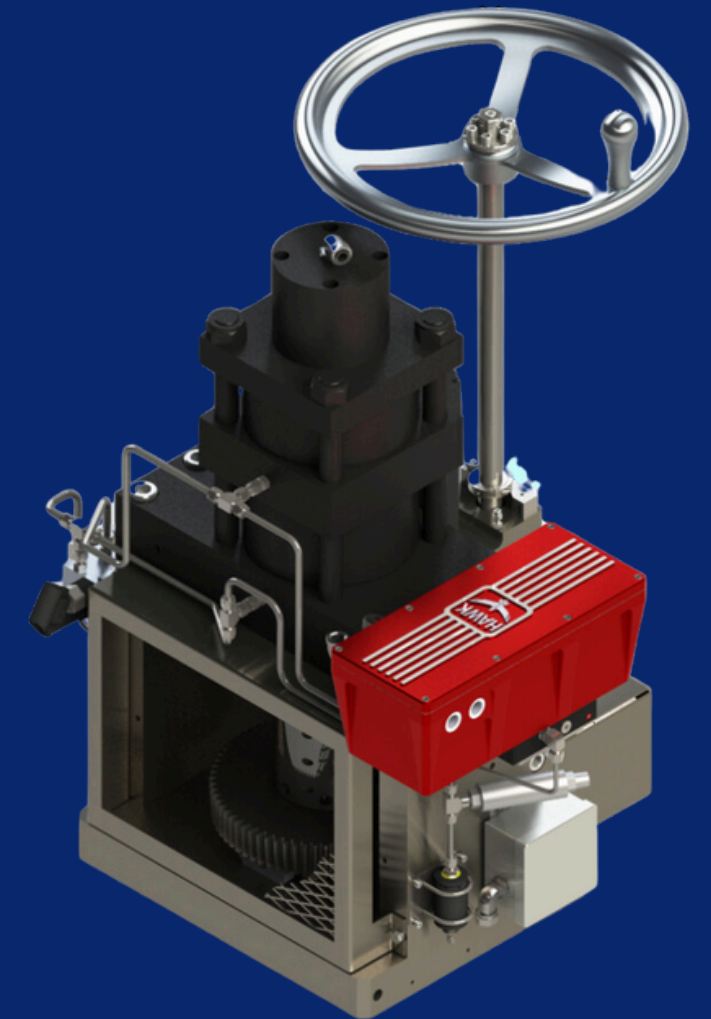
SELF-CONTAINED ACTUATOR FOR LIFT/PUSH AND TURN VALVE OPERATION

HAWK SWITCH FOR LIFT /PUSH AND TURN VALVE OPERATION

MEA Hawk Switch is the self-contained electro-hydraulic actuator designed to operate 3-way Delayed Coker switch valves, wedgeplug isolation valves and 4-way diverter valves.

MEA Hawk Switch is providing both linear and rotary motion in a single, compact package. Simple installation, high resolution position feedback, advance alarming and diagnostics, calibration via touchscreen HMI, valve health monitoring, and integration of SIS permissives are just some of the additional benefits the Hawk Switch can provide.

- Standard thrust up to 100,000 lbf (444,822 Newton)
- Utilization of hydraulics to seat and unseat the valve
- Ability to change the speed of rotation at any time
- Ability to set stops between ports at any time
- Valve health monitoring – thrust and torque monitoring
- Local bush buttons and lights for operation and indication
- Local position indicators
- Manual handwheel override
- Temperature rating -40F to 150F (-40C to 65.5C)
- Hazardous area rated
- Power supply 120 VAC, 208 VAC, 240 VAC, 480 VAC



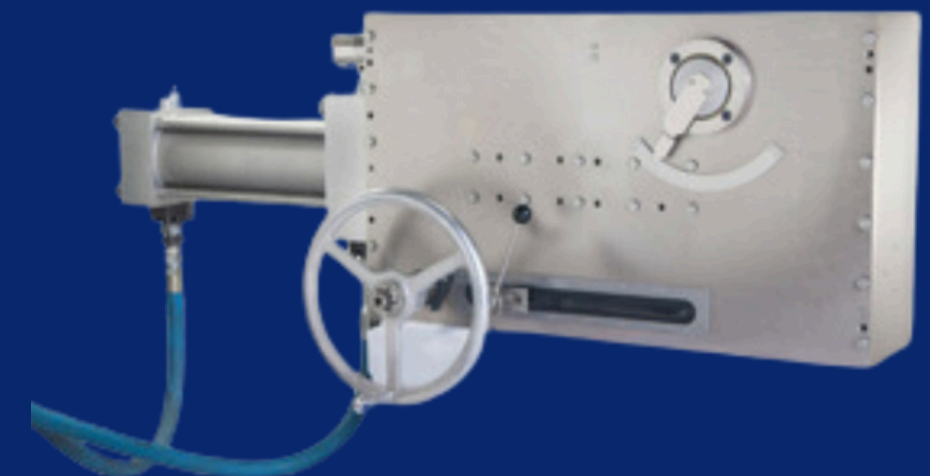
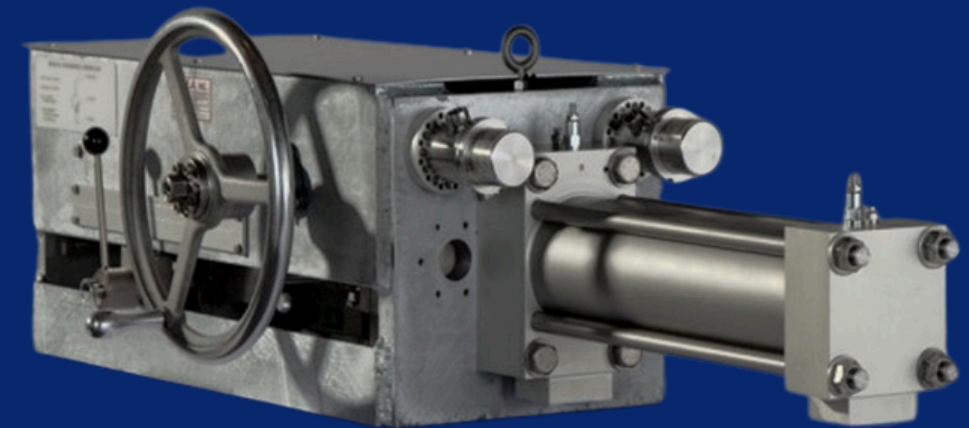
MEA HAWK SWITCH

SELF-CONTAINED ACTUATOR FOR LIFT/PUSH AND TURN VALVE OPERATION

LINEAR AND ROTARY ACTUATORS

Linear and rotary heavy duty actuators equipped to operate with any hydraulic power control units. Features include, but not limited to:

- Single, redundant, triple redundant externally mounted position transducers with auto switchover (bump-less transfer) with ability to remove online
- Heavy duty declutching mechanism with dual acme screw design
- Mechanical position indicator
- Adjustable mechanical stops
- Handwheel in service alarm
- Position limit switches
- End of stroke cushions for piston assembly
- Eye bolt for actuator support
- Top guard, with optional bottom guard and cylinder sunshield



HYDRAULIC POWER CONTROL UNITS

Designed to operate slide valves, gate valves, globe valves, ball valves, butterfly valves and other linear and rotary devices in a variety of critical control applications. This unit is fit for applications that require high thrust/torque operation, very high speeds, extreme reliability and accurate control. Features include, but not limited to:



- 100% Modulating service
- Resolution <0.01%
- Repeatability <0.1%
- Full stroke, Normal speed 2 sec to 5 sec
- Full stroke, Shutdown speed 0.5 sec to 2 sec
- 1 out of 1 (1oo1), 2 out of 2 (2oo2), 2 out of 3 (2oo3) ESD systems available, SIL-2 capable, testable and monitored
- Linear thrust output 2,000 lbf (8,896 Newton) – 100,000 lb (444,822 Newton) (consult factory for higher outputs)
- Rotary torque output 2,000 lbf-in (226 N-m) – 1,000,000 lbf-in (112,985 N-m) (consult factory for higher outputs)
- Ambient temperature rating -40F to 140F (-40C to 60C)
- Fail position – Fail Close, Fail Open, Fail Last
- Hazardous area rated
- Single, redundant, triple redundant PLC control system configurations
- Advance diagnostics, monitoring and calibration
- HMI, pilot lights, switches and push buttons interface
- Smart communication with DCS and SIS
- Predictive hydraulic system and valve diagnostics

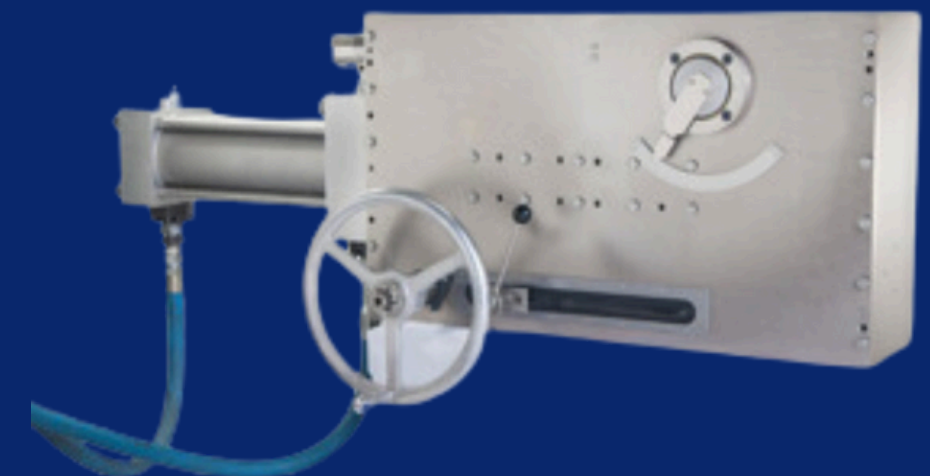
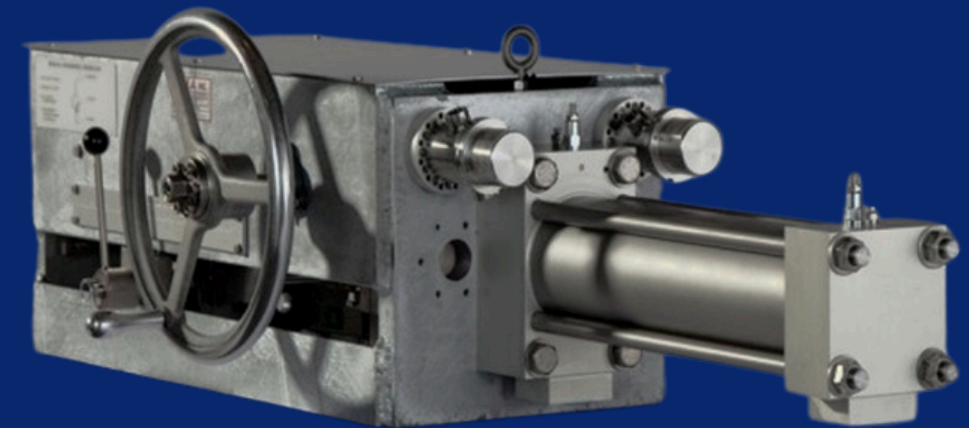
MEA PHOENIX ACTUATOR

HYDRAULIC POWER CONTROL UNITS AND ACTUATORS FOR ON/OFF SERVICES

LINEAR AND ROTARY ACTUATORS

Linear and rotary heavy duty actuators equipped to operate with any hydraulic power control units. Features include, but not limited to:

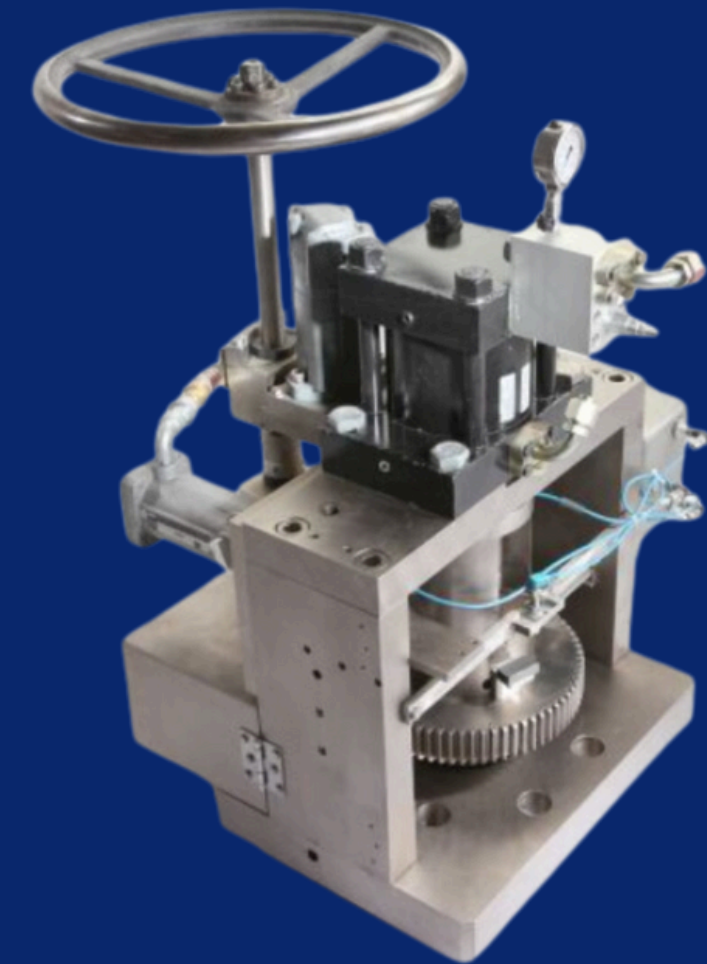
- Single, redundant, triple redundant externally mounted position transducers with auto switchover (bump-less transfer) with ability to remove online
- Heavy duty declutching mechanism with dual acme screw design
- Mechanical position indicator
- Adjustable mechanical stops
- Handwheel in service alarm
- Position limit switches
- End of stroke cushions for piston assembly
- Eye bolt for actuator support
- Top guard, with optional bottom guard and cylinder sunshield



LIFT/PUSH AND TURN ACTUATOR

Lift/Push and Turn heavy duty actuator equipped to operate with purposely designed hydraulic power control unit. The actuator is designed to operate 3-way Delayed Coker switch valves, Delayed Coker wedgeplug Isolation valves and 4-Way diverter valves. Features include, but not limited to:

- Linear hydraulic cylinder thrust output 100,000 lbf (444,822 Newton)
- Bi-directional hydraulic motor for precise control of plug rotation
- Encoder and proximity switches sense plug position
- Mechanical stops to prevent accidental switch to unwanted position
- Manual handwheel override



HYDRAULIC POWER UNITS

Designed to provide hydraulic pressure supply to one or multiple hydraulic control units. Feature include, but not limited to:

- Single, redundant, triple redundant hydraulic pump/motor setup
- Dual hydraulic filter setup for ability to change filters online
- Differential pressure monitoring
- Hydraulic reservoir with temperature, level and pressure monitoring
- Hydraulic fluid conditioning systems – heating/cooling, particles monitoring, moisture control
- Hydraulic pressure monitoring
- Motor starters and motor control operation
- Relay logic or PLC base control system options available



HYDRAULIC CONTROL UNITS

Designed to operate isolation and emergency shut off slide valves, gate valves, globe valves, ball valves, butterfly valves and other linear and rotary devices in variety of critical applications.

- Full stroke speed 0.5 sec to 5 sec
- 1 out of 1 (1001), 2 out of 2 (2002), 2 out of 3 (2003) ESD systems available, SIL-2 capable, testable and monitored
- Linear thrust output 2,000 lbf (8,896 Newton) – 100,000 lb (444,822 Newton) (consult factory for higher outputs)
- Rotary torque output 2,000 lbf-in (226 N-m) – 1,000,000 lbf-in (112,985 N-m) (consult factory for higher outputs)
- Ambient temperature rating -40F to 140F (-40C to 60C)
- Fail position – Fail Close, Fail Open, Fail Last
- Hazardous area rated
- Relay logic, single, redundant, triple redundant PLC control system configurations
- Advance diagnostics, monitoring and calibration
- Smart communication with DCS and SIS
- HMI, pilot lights, switches and push buttons interface



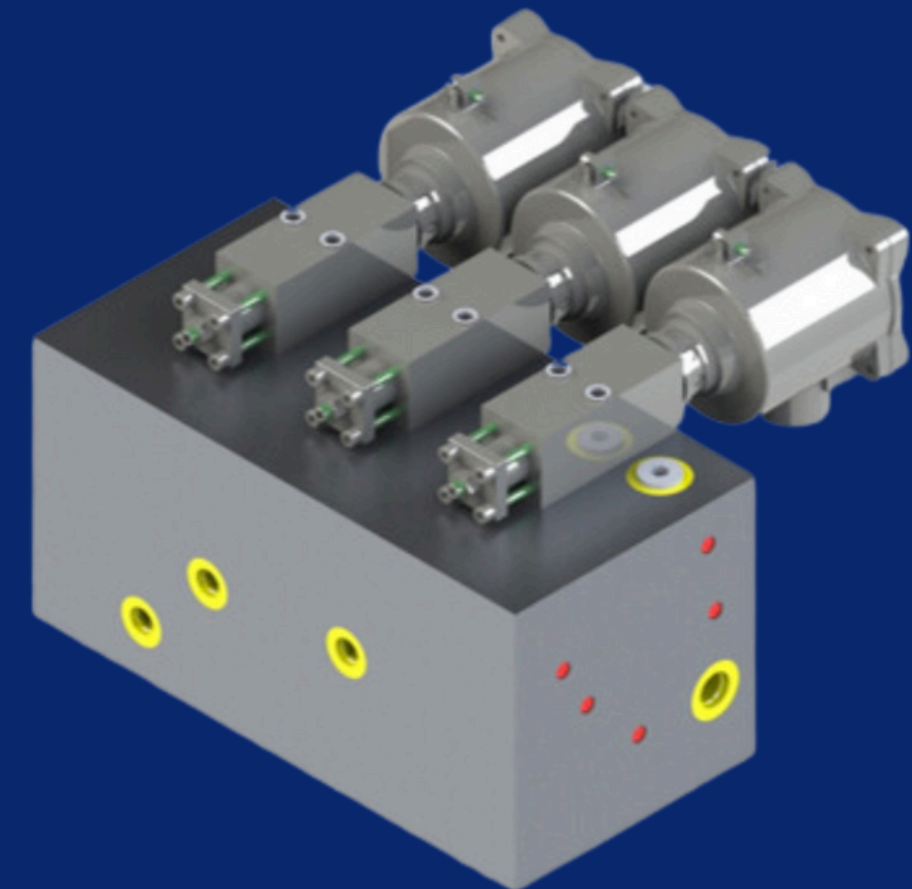
ESD SYSTEMS

EMERGENCY SHUT DOWN SYSTEMS FOR ESD AND TRIP VALVE TRIGGERING

2 OUT OF 3 EMERGENCY SHUT DOWN SYSTEM

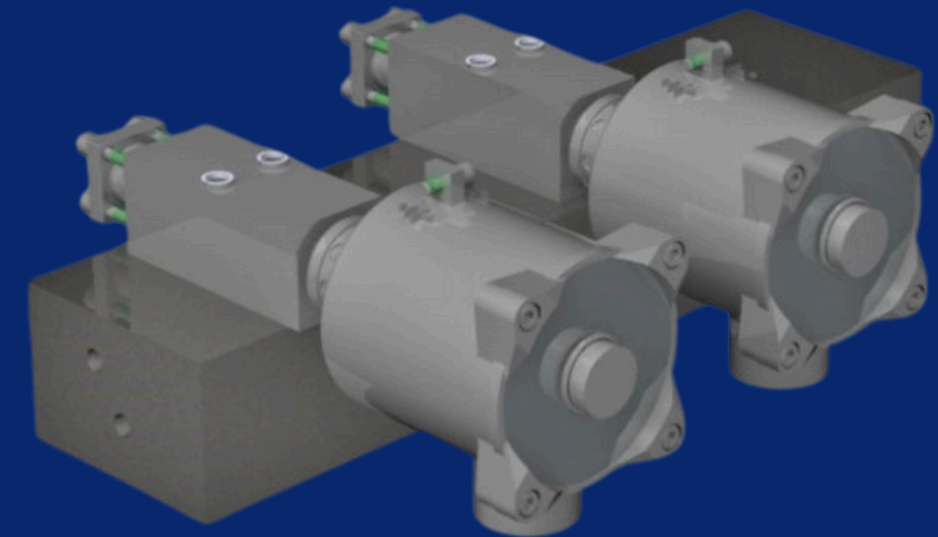
MEA is proud to introduce our new 2 out of 3 (2oo3) voting system for operation of trip and Emergency Shut Down (ESD) valves. Our 2oo3 system can be included on all of MEA's control and actuator products from Eagle hydraulic power control units to Hawk self-contained electro-hydraulic actuators to two-position ESD skids. The system can even be retrofit to existing actuators, whether from MEA or other manufacturers.

- To trigger ESD function any 2 out of 3 solenoids valves must deenergize
- Operates independent from the control system
- Response time <100 msec
- ESD speed of operation as low as 0.3 seconds
- Individual pressure ports for individual solenoid testing
- Hazardous area rated



2 OUT OF 2 EMERGENCY SHUT DOWN SYSTEM

- To trigger ESD function 2 out of 2 solenoids valves must deenergize
- Easily implemented in self-contained electro-hydraulic actuators and hydraulic power control units
- Operates independent from the control system
- Response time <100 msec
- ESD speed of operation as low as 0.3 seconds
- Individual pressure ports for individual solenoid testing
- Hazardous area rated



PROJECT

OUR CLIENTS

- PT. Kilang Pertamina Internasional Unit II - Dumai
- PT. Kilang Pertamina Internasional Unit III - Plaju
- PT. Kilang Pertamina Internasional Unit IV - Cilacap
- PT. Kilang Pertamina Internasional Unit V - Balikpapan
- PT. Kilang Pertamina Internasional Unit VI - Balongan
- Perta Arun Gas - Lhokseumawe
- Pupuk Sriwidjaja - Palembang



OUR GALLERY



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