

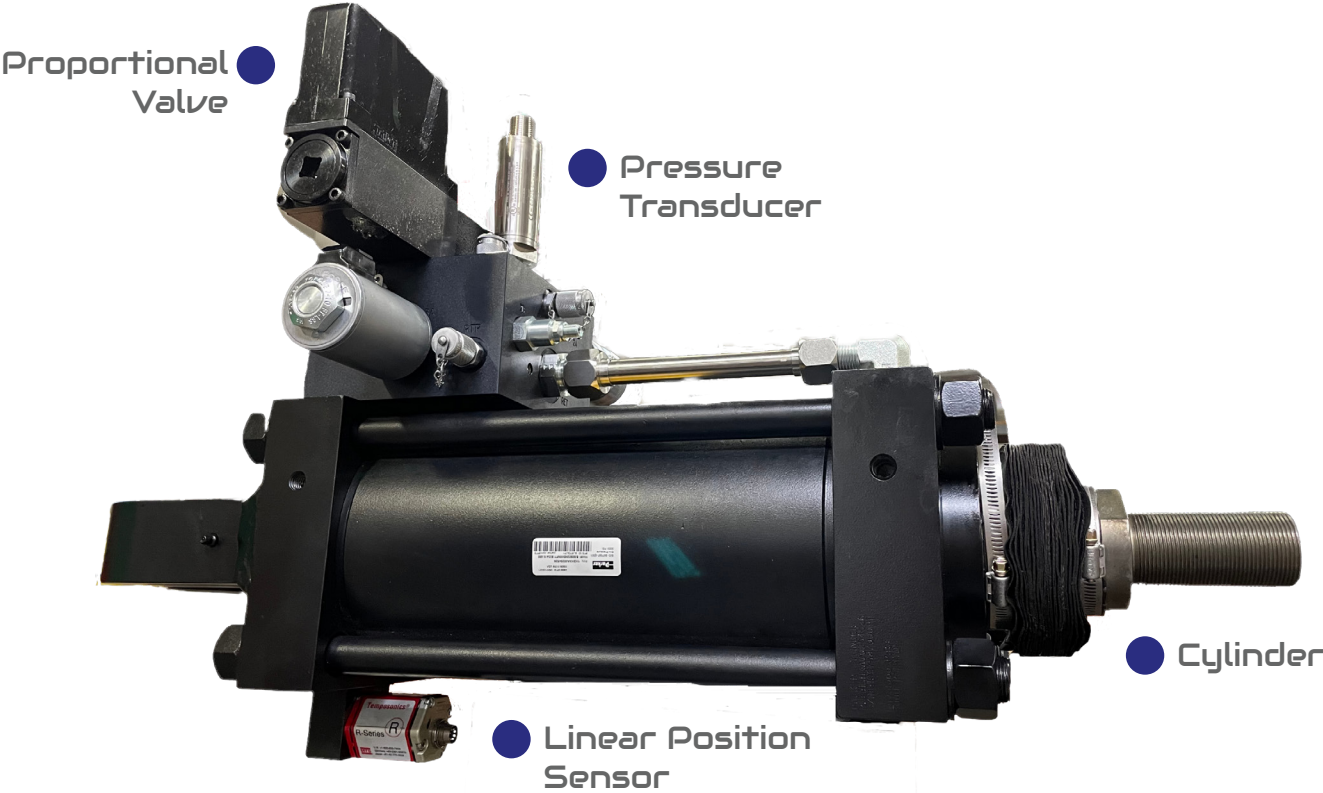


POWERFUL IDEAS START HERE

Electro-Hydraulic Actuators

For Aerospace Applications

Electro-hydraulic actuators have become a leading technology compared to their pure hydraulic and pneumatic counterparts due to their many advantages. Electro-hydraulic actuation offers a higher degree of precision in movement with their electronic sensors and allows for easier adjustment as controllers can remotely operate the unit. They are more compact as they require fewer components, making it power-dense and ideal for aerospace applications with low load requirements. It's self-contained design mitigates safety hazards and does not require regular servicing. These benefits come with the same performance, handling loads, and shock tolerances as traditional hydraulic technology.



PARKER CYLINDERS



2H/3H Cylinder



- Operating Pressure: 3000 psi
- Operating Temperature : -10°F to +165°F
- Bore Diameter ranges from 1.50" through 6.00" & 7.00" & 8.00"
- Rod Diameter: 0.625" through 5.500" Inch
- Hydraulic Oil Fluid Type
- Tie Rod and Bolted Construction
- Available for any stroke length

3L Cylinder



- Operating Pressure: 1000 psi
- Operating Temperature: -10° to +165°F
- Bore Diameter: 1.50" through 6.00" & 7.00" & 8.00" Inch
- Rod Diameter: 0.625" thorough 5.500" Inch
- Hydraulic Oil Fluid Type
- Available in any practical stroke length
- Squarehead and Tie Rod Design

Hybrid Actuation System (HAS)



- Bore size ranges from 2 inches to 8 inches
- Plug and play. No plumbing, hoses, or oil needed
- AC and DC voltage supply available
- Simple 2-wire control
- No limit on stroke mount or rod modifications

VALVES

MIC Stainless Steel Ball Valves



High Pressure Ball Valve - BVH

- Stainless Steel constructed rated up to 7500PSI
- Offered in the largest range of ball orifice diameters (1/4" - 6")
- Unrestricted bore offered, Steel Balls, for minimal system pressure drop
- Temperature Range: -60F to 400 F (Depending on material combinations)



Low Pressure Ball Valve - BVLS

- 1000 PSI MAWP for Water, Oil, and Gas (WOG)
- Temperature range from -20F to 400F
- Low friction seals for low actuation torque
- Fire safe versions available
- NACE MR0175 Compliant



Gas Application Valve - BVQG

- Standard sizes ranges from 1/2" - 6"
- 6000 PSI with generous design factor to eliminate damage due to all pressure spikes
- Improved ball seals specifically for gas applications
- Special material coatings improve life expectancy in dry environments.
- Assembled with Krytox Grease



Kepner Check Valve

- Combines metal to metal contact with a resilient O-ring seal
- Available in check, relief, shuttle, and pilot operated check valves
- Zero leakage, bubble tight shutoff of liquid or gas
- Long service life
- The seals are available in a variety of materials: Buna-N, Neoprene, Teflon®, Viton®, EP, and more.
- Body Materials: Aluminum, Brass, Steel, 303 or 316 Stainless Steel
- Temperature: -300F to 450F (-184C to 232C), O-Ring dependent
- Relief/Check Crack Pressures: 5 PSI, 10 PSI, 25 PSI , 50 PSI, and 65 PSI, others available
- Operating Pressure: to 3,000 PSI
- Flow: to 500 GPM



Proportional Valve

- Better Suited for Test and on Ground applications
- Pressure to 5000 psi
- Low Hysteresis
- Frequency Response of 350Hz
- Mounts to Standard CETOP Subplates
- Zero Lap Spool

SENSORS & CONTROLLERS



R series V Linear Position Sensor



- 5th generation of Temposonics that provides a more robust and better performance
- 100% increase in vibration resistance, up to 30g over the entire stroke range
- 50% increase in shock resistance upto 150g/11ms over the entire stroke range
- Extended operating temperature range from -40C to 85 C
- Extended supply voltage range from 12 - 30 VDC
- Backward Compatibility (Mechanically and Electronically)
- Tempolink allows interaction through a web browser
- Supports Industry 4.0 and IIoT Diagnostics

Barksdale

450 Pressure Transducer



- Factory sealed IP66 & IP67 and NEMA 4X Enclosure
- 100 million life cycles
- Proofs Pressure: 7,500 - 30000 PSI
- Explosion proof 450x series, 450E for Hazardous conditions
- 20 mA max supply current

DELTA

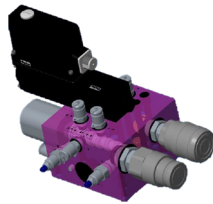
RMC200 Motion Controller



- Provides up to 50 axes of control, and supports up to 104 reference inputs.
- Powerful motion commands and programing, with loop times down to 125 microseconds
- Interchangeable I/O Modules
- Uses RMCTools software just like any other RMC series

ZEMARC ENGINEERING

Zemarc's engineers communicate with customers to understand their needs and design fluid power-based systems to fulfill them. Our engineers have expertise in current and emerging technologies as well as experience and knowledge of a wide array of industries, from aerospace to agrotech, ensuring you're in good hands no matter the challenge. Contact our engineering team today for solutions below and more.



Power Units

Customized to Your Specifications
5 to 1000+ Gallon Reservoirs
Reservoirs Options
(Overhead, Submerged, or L Shaped)
Your Required Flow & Pressure
Customized Controls and Diagnostics
Skydrol Units Available
Portable Power Units Available

Manifolds

Complex Integrated Systems
Flow Divider Systems
Electro-Hydraulic Proportional Control
Cylinder Mounted

Equipment

Custom Gas Booster
Parker Nitrogen Gas Generators
Parker Hydrogen Gas Generators
Parker Water Chillers
Parker Air Dryers
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