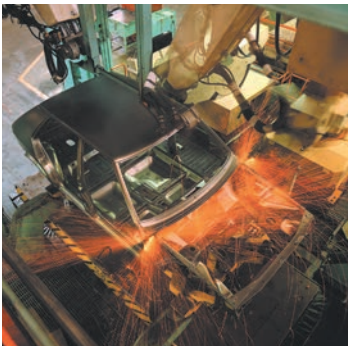




aerospace
 climate control
 electromechanical
 filtration
 fluid & gas handling
 hydraulics
pneumatics
 process control
 sealing & shielding



Pneumatic Innovations

Bulletin 0600-B50-4



ENGINEERING YOUR SUCCESS.

Factory Automation

Parker's Factory Automation pneumatic products are uniquely suited for applications ranging from Food Packaging & Processing to Automated Assembly and Material Handling. For example, the innovative back-to-back valve design on the Isys Micro provides maximum flow and increased valve density on field bus manifolds for control panel mounting.

Micro Valves

- Isys Micro Series
- 0.35 Cv, 282 to 510 nl/min
- Back-to-back valve design
- 1.0 watt, 24VDC
- 25-Pin or fieldbus wiring
- Profibus®, DeviceNet™, CANopen, InterBus-S, EtherNet I/P™, ControlNet™



Modular FRLs

- Global FRL Series
- Filter, regulator, lubricator, piggybacks & combination units
- Up to 250 psig
- 1/4" to 3/4"
- Manifold regulators
- Shut-off, soft start, & dump valves



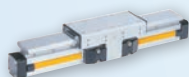
Vacuum Generators

- CVR Series
- 27 inHg to 17 inHg
- Integrated sensor & filter
- N.O. or N.C. air supply
- Vacuum release with check valve
- 24VDC, 0 to 7 watt
- Manifold mounting (optional)



Rodless Actuators

- OSP-P Series
- 10mm to 80mm bore
- Linear guides
- Active & passive breaks
- ATEX, clean room, low temp, high temp, slow speed, high speed



Inline Valves

- Viking Lite Series
- 0.8 to 2.5 Cv, 1/8" to 3/8"
- 14°F to 122°F
- 22 to 145 psig
- 2.5 watt
- 24VDC and 120VAC



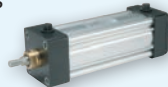
Compact Cylinders

- P1Q Series
- Bore sizes 12mm through 100mm
- 4 flexible mounting options
- Pressures up to 145 psig
- Temperatures 23°F to 140°F
- Aluminum body construction



Aluminum NFPA Cylinders

- 4MA Series
- Non lube NFPA cylinders
- 1.5" to 8" bore
- 20 mounting styles
- Extruded body design
- Steel & stainless steel rods
- Optional rodlocks & guides



Aluminum Round Body Cylinders

- SR Series
- 304 stainless steel cylinder body, non repairable construction
- Bore sizes 5/16" through 3"
- Stainless steel piston rods standard up to 1.50" bore
- 28 standard mounting styles available
- Single and double acing



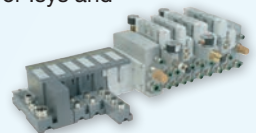
Economy Grippers

- Cost effective solution for machine builders
- 12mm to 32mm bore sizes
- Angular or parallel



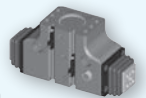
Fieldbus Control Systems

- Fieldbus interface for Isys and Moduflex valves
- Up to 256 inputs
- Up to 256 outputs
- Digital or analog



Precision Grippers

- Premium product for precision and durability
- Parallel: 2 or 3 Jaw
- Grip forces to 35,000
- Repeatability to +0.00005mm



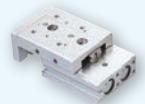
Refrigeration Dryers

- Space saving plug-n-play design
- PDRD refrigeration to remove condensate & maintain dew points
- 10 to 2400 SCFM
- Up to 232 psig inlet
- Up to 149°F inlet temp & 122°F ambient



Slide Tables

- Built in linear rail
- Bore sizes 6mm to 25mm
- Available with stroke adjusters & shock absorbers



Rotary Tables

- 0-190 degree rotation adjustment
- Hollow shaft standard for wiring and piping



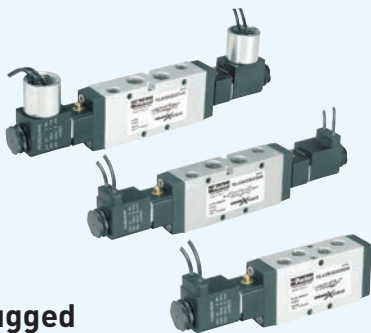
To learn more about the exciting **pneumatic innovations** from Parker Pneumatic Division check out our website www.parker.com/pneu or email us at pdncustsvc@parker.com

Heavy Industrial

For decades Parker Pneumatics and Heavy Industrial have been synonymous with durability and long life. Heavy duty 2A steel pneumatic cylinders and high flow-speed N Series poppet valves have been operating in foundries, steel mills, and automotive casting & stamping plants without fail.

Hi-Flow FRL Combos

- P3Y Series
- Filter, regulator, lubricator
- 3/4" to 1-1/2" NPT
- 5 micron
- 250 psig max
- Metal bowl construction



Rugged Inline Valves

- Viking Xtreme Solenoid & Manual Valve
- Cv 0.8 to 2.7, 1/8" to 3/4"
- -40F
- Standard and Mobile Voltages
- Rugged Stainless Steel Handles

Regenerative Desiccant Dryers

- Point of use application
- Noise less than 70 dba
- IP66 / NEMA 4
- 3 to 800 SCFM
- 115VAC



High Flow Inline Valves

- N Series
- 2 & 3-way high speed poppet valve
- 3/8" to 1-1/2", 3.0 to 30.0 Cv
- 30 to 250 PSI & vacuum
- NEMA 4, hazardous duty



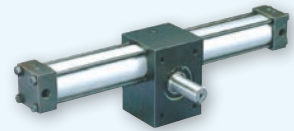
High Flow Subbase Valves

- Valvair II Series
- 4-way, 5 port
- 3/8" to 1" plug-in or direct pipe ported
- NEMA 4, hazardous duty



Rack-N-Pinion / Vane Rotary Actuators

- PTR & PV Series
- Maximum operating pressure: 250 psi
- Output torque @ 100 psi: 39 lb-in to 2280 lb-in
- Standard rotations: 90°, 180°, 270°, 360°, 450°
- Maximum breakaway pressure: 5 psi



Steel NFPA Cylinders

- 2A Series
- Heavy duty - NFPA / ANSI
- Square head & tie rod
- 1" to 14" bore, larger sizes available
- 250 psi air service
- 19 mounting styles



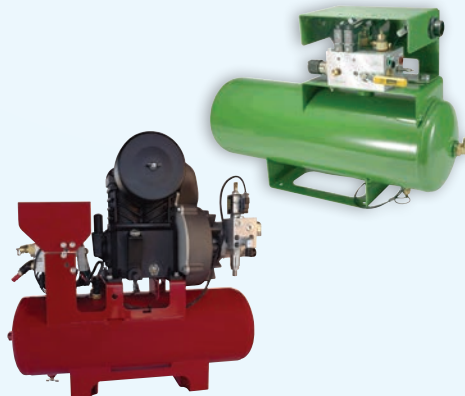
Rugged Brass Body Manual Valves

- MO Series
- 1/4" to 3/4" port sizes
- Corrosion resistant bronze body
- Air & low pressure oil service
- Knob, lever, pedal, and remove operators



Agriculture

As the global demand for food and energy increases, Parker is committed to help increase productivity and output. Our systems have integrated numerous technologies and innovative solutions that deliver in the field. From seed to harvest; Parker has proven that our solutions and forward-thinking partnerships produce results.



Pneumatic Downforce Active Systems

- Controls the seed depth during planting in changing soil conditions
- Eliminates 15 minutes of idle tractor start up time
- Eliminates low yield transition acreage
- Complete pneumatic control solution with Parker hydraulics driving the pneumatic compressor

Transportation

► Standard Products for Mobile Applications

The transportation industry is on the move and Parker is ready. Our product offering includes valves that can operate in extreme temperatures, manual mechanical valves for transmission & trailer applications, and suspension control systems.

Mobile Inline Valves



- Viking Xtreme Series
- 0.7 to 2.7 Cv, 1/8" to 1/2"
- -40°F to 150°F
- Vacuum - 232 psig
- 2.5 to 7.3 watt
- Hazardous duty, intrinsically safe
- 12VDC - 120VAC

Low-Temp Regulators

- -40°F to 180°F
- Aluminum construction
- Relieving & non relieving
- 1/2" NPT, BSPP



Filters

- Global FRL Series
- Particulate & coalescing
- 5 & 0.01 micron
- -13 F to 150 F
- 250 psi air service



► Engineered OEM Solutions for Mobile Applications

Parker Pneumatic Division North America provides key components and engineered systems for a variety of customers who manufacture almost anything on wheels. Labor reduction, streamlined component selection, and increased performance are just a few ways Parker has provided value to our customers. From over-the-highway trucks and heavy construction equipment, to "on the farm" vehicles, Parker works directly with your engineering team to design a custom solution to fit your application.

Door Assist Systems

Central Tire Inflation

Pressure Protection Valves

Lift Axles

Air Suspension Controls



Energy

Parker's hydraulic unibody actuator improves uptime on fracking rigs in all regions of the world. The actuator is also utilized in waste management, mining, and mobile applications.



Hydraulic Unibody Actuator

- HUB Series
- Available with 90 degrees of rotation
- Torque output ranging from 1800 lb-in to 10,000 lb-in.
- Optional feedback modules



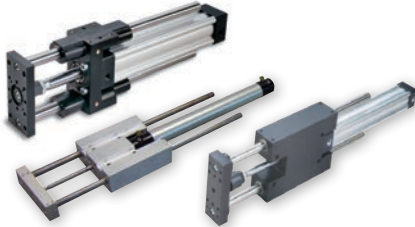
Actuator Products

Linear Cylinders



Constructed of high quality, corrosion-resistant material, Parker's Linear Air Cylinders meet rapidly changing application demands. With advanced endcap and piston designs, low friction at zero leakage, and flexible mounting options, Parker's Linear Air Cylinders offer unbeatable reliability, and superior performance.
www.parker.com/pneu/cylinders

Guided Cylinders



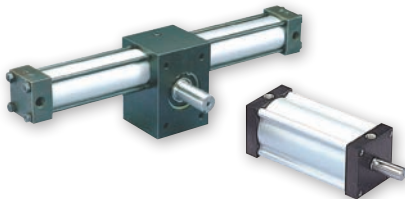
Parker's Guided Cylinders are designed for heavy duty and extreme linear motion applications. From the P5L series offering a fully-featured guided bearing system, to the P5E series with two parallel precision ground, case hardened support shafts machined from high carbon alloy steel; Parker's Guided Air Cylinders are suitable for the most demanding applications.
www.parker.com/pneu/cylinders

Rodless Cylinders



Parker's Rodless Cylinders, including the Parker-Origa System Plus (OSP), offer flexible linear drives which can be simply and neatly integrated into any machine layout. From the P1X Series compact, high speed, no-lubrication cylinder to the complete OSP linear system combining pneumatic or electric actuation with guidance and control modules; Parker has the Rodless Cylinder to suit the exact needs of individual installations.
www.parker.com/pneu/cylinders

Rotary Actuators



Parker's Rotary Pneumatic Actuators include vane, single & double rack-n-pinion designs for light to heavy industrial applications. Parker has a rotary actuator which can be ordered with the industry's most extensive set of options for controlling and decelerating loads.
www.parker.com/pneu/actuators

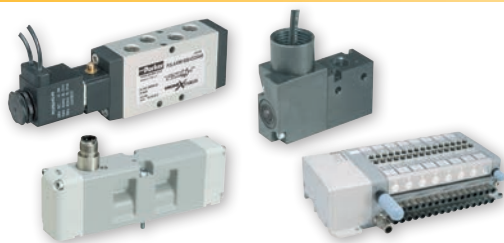
Parker Innovation

To learn more about the exciting pneumatic innovations from **Parker Pneumatic Division**, check out our website www.parker.com/pneu or email us at pdncustsvc@parker.com



Control Products

Valves



Parker valves cover the broadest range of market applications, from 10mm solenoid pilots for use in the semiconductor market, to 1-1/2" ported, hi-flow 4-way valves for foundries and paper mills. Utilizing technology such as the WCS* spool design, serial bus and collective wiring electronics, and specialized machining and thermoplastics, Parker offers value and quality on the leading edge of technology. *Wear Compensated Spool
www.parker.com/pneu/valves

Air Preparation



Parker is the industry leader in air preparation. The Global FRL Series contains filters, coalescing filters, standard and precision regulators, filter/regulators and mist lubricators. The Global FRL modular design provides easy installation and maintenance with an aesthetically pleasing appearance. Accessories include lockout valves, manifold blocks, soft start/quick dump valves, electro-pneumatic regulators and pressure switches.
www.parker.com/pneu/airprep

Vacuum



To compliment its pneumatic product offerings, Parker has a complete line of vacuum generators and cups. Integrated sensors provide feedback for improved system response time. Additionally, emergency stop systems hold parts during electrical power loss to prevent product/machine damage. Parker's space saving manifold systems and extensive cup availability provide unlimited automation solutions.
www.parker.com/pneu/vacuum

Accessories



Parker offers a range of Air Line Accessories for your applications, including ball and plug valves, check valves, safety blow guns, breather vents, and a wide assortment of couplers, connectors, fittings, interchange nipples, and flow control valves.
www.parker.com/pneu/accessories

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