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Pneumatics

Innovative Products and
System Solutions

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CD Catalog



Use the CD search codes provided in this catalog to go directly to the section for that product.

Use the web addresses, www.parker.com/pneu/ provided with each product to go directly to that product or series on the Parker website.

Parker Hannifin Corporation



Premier Customer Service

Parker Hannifin is a Fortune 300 corporation listed on the New York Stock Exchange as PH. Parker is the leading global manufacturer with the widest variety of components and systems designed to control motion, flow and pressure in all types of machinery and equipment.



Worldwide Network of Distributors

Parker offers over 1,400 product lines that control motion in 1,000 mobile, industrial and aerospace markets. We are the only manufacturer to offer our customers a choice of hydraulic, pneumatic, electromechanical and computer motion control solutions. And we have the largest global distribution network in our field, with over 7,500 distributors serving more than 422,000 customers.



Engineering Expertise

Parker products are found everywhere: in orbiting satellites, machine tools, truck equipment, hospitals and laboratories, oil rigs and refineries... anywhere machines depend on motion control.



ISO Compliant Manufacturing



Pneumatic Products & Systems

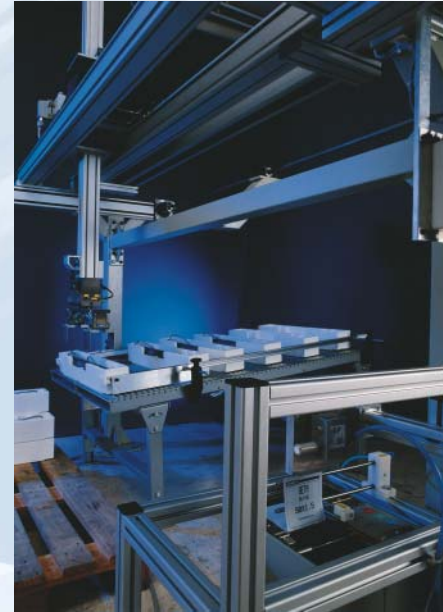
Parker Hannifin is the leading global supplier of pneumatic components and systems. Whether you need a single product delivered down the street or a complete pneumatic system solution delivered anywhere in the world, Parker is your one-stop resource.

Serving hundreds of automation markets where controlling motion, flow and pressure is required, Parker's products are engineered and manufactured to world class standards and are backed by unparalleled customer service and technical field support. Parker is ideally positioned to be your single source pneumatics supplier.

It All Starts With The Product

When it comes to products, Parker is the most recognized name in the pneumatics industry. With more than 80 years of experience, Parker's strong market presence results in engineering and manufacturing expertise, and a highly competent field sales and distribution network.

Extensive breadth of product allows us to provide unlimited solution possibilities. Our worldwide network quickly delivers your solution, including those built to order. Whether you need a pneumatic system, a sub-system, or components, Parker delivers.





Engineering/Manufacturing Expertise

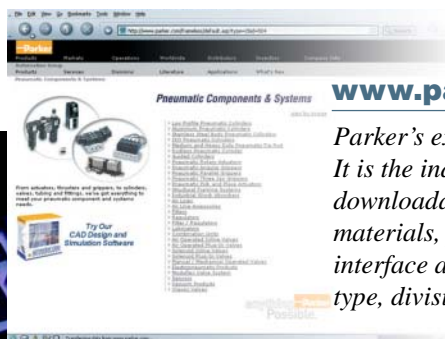
Parker's product engineering and manufacturing capabilities form the cornerstone of everything we offer. We utilize the latest computer-aided design and lean manufacturing technology and processes to exceed today's stringent demands for both quality and delivery. Parker is ISO compliant and continues to invest in research and development, manufacturing technology, and people who are dedicated to delivering precision manufactured and innovative products.



Total System Solutions

Parker's team of highly qualified applications engineers, product development engineers and systems solution specialists can turn a Parker product solution into an integrated system solution. Parker can thoroughly evaluate your application and provide the complete solution by integrating Parker's pneumatic, structural automation and even electromechanical products. With decades of experience in automated motion and control across multiple technologies, Parker is your single source for the right solution.

Ordering a complete system from Parker brings with it all of the benefits you have come to expect: quality, system integrity and ownership, worldwide distribution, extensive field support and customer service. Add supplier reduction, reduced lead times, simplified ordering and more efficient shipping and you'll agree that Parker's total system capabilities are designed with your application in mind.



www.parker.com/pneumatics

Parker's extensive web site is your online resource for pneumatic technology. It is the industry's most comprehensive site and includes product information, downloadable catalogs, 3D CAD drawings, contact information, training materials, product selection software and RFQ capabilities. The user-friendly interface allows you to search by general product families, specific product type, division, or keywords.



Value Added Programs

Parker Hannifin strongly believes that value added programs are just as important to our customers as breadth of line and system solutions. In addition to assured product quality, Parker provides engineering assistance, electronic ordering, customer training, on-time delivery, extensive product information and consolidated shipments. Parker's Premier Customer Service leads the industry in response; our employees are empowered to do whatever it takes to exceed customer expectations.



Pneumatic focused "Tech Team"

Parker's Tech Team is a dedicated resource providing two valuable services:

Machinery performance. Give our Tech Team a machine that does not meet your cost, performance, or reliability objectives, and we will "re-skin" the machine with a solution that will meet or exceed your expectations. Full project documentation is provided, reflecting improved performance and reduced Bill of Material and/or operating costs.

New Machine Design. No time or resources to design the pneumatic system on your new machine design? Our Tech Team will design, document and deliver the optimal system the first time, with the lowest possible costs.





Field Sales



Training



Pneumatic Technology Centers

A Parker Pneumatic Technology Center is your local one stop shop for all your pneumatic automation needs. These centers are staffed with specialists who can provide engineering assistance, technical support and full systems service for all your pneumatic requirements.

PTCs were introduced by Parker in order to meet the changing needs of our customers, while increasing the level of services provided by a Parker distributor. At PTCs you'll find: advanced design and technology, local inventory, a staff of application system engineers, training services, value-added services and the industry's leading technical support.

Field Sales Team

Parker's highly trained field sales force, strategically located throughout the world, provides knowledgeable assistance within hours. Linked by global communication systems, these experts will work together with a local Parker distributor on any product application to fulfill your needs.

Training

Parker is the industry leader in the development and presentation of technical training for pneumatic and hydraulic technology. We offer complete and comprehensive texts and hands-on classroom opportunities for our employees, distributors and customers. This includes web-based, on-site and classroom training at various Parker locations.

Hundreds of colleges and universities in North America have adopted Parker's textbooks as the foundation for motion and control courses offered at their institutions. Training support materials include textbooks, instructor guides, computer-based training CDs, digital overheads on CD, final exams, drafting and simulation software, lab manuals and trainer stands.

PIN (Parker Integration Network)

Networking over 100 system integrators, Parker's PIN program combines leadership in motion control technology with specific application design and building expertise. PIN provides the customer with one-stop problem solving; it enables Parker and its system integrators to act as a single, qualified team with local sales and distribution.

At www.parker.com/pin, you can locate a system integrator based on any number of criteria, making it easy to locate the system integrator that best meets your requirements.

5 Year
Warranty

Parker will extend its standard limited warranty to 60 months for all pneumatic products when a properly installed and maintained air preparation system is used, as supplied by Parker and/or its authorized Pneumatic Technology Center (PTC).

Pneumatic Components Overview

Parker offers one of the world's most extensive pneumatic product lines. From control valves to FRL's, actuators, cylinders, pressure sensors, vacuum products, grippers and structural framing—Parker continues to refine and develop pneumatic components to provide its customer with innovation, quality, delivery and customer service.



Pneumatic Valves

Parker valves cover the broadest range of industrial market applications, from 10 mm solenoid pilots for use in the semiconductor market to 1½" 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.

Cylinders

Parker pneumatic cylinders are engineered to meet ISO, NFPA and other standards, and they come in a variety of shapes (compact, round body and tie rod) and sizes (6-200 mm, ¼-14" bores). Whether you need to move a load fast or slow, in a straight line or through an arc, or even sense the load's position, Parker has a cylinder for your application.

Air Preparation Units

Parker is the industry leader in air preparation. The Prep-Air II Series contains filters, coalescing filters, standard and precision regulators, filter/regulators and mist and micro-mist lubricators. The Prep-Air II modular design provides easy installation and maintenance with an aesthetically pleasing appearance. Accessories include lockout valves, manifold blocks, soft start/quick dump valves and pressure switches.

Flow Controls Accessories

Parker offers an array of flow controls including needle, check, quick exhaust, shuttle and relief valves in sizes from M5 to 1½". Flow controls are available in various body and seal materials for the most demanding applications. Right Angle flow controls are designed for "close to the point use." Low profile valves are ideal for space saving applications. Additionally, Prestolok connections are available for instant fitting access.

Pneumatic Components Overview



Guided Cylinders

Pneumatic guided cylinders are available in four unique designs with multiple configurations suitable for any application. Cylinder bore sizes range from 16 to 100 mm and are available in both metric and imperial designs. Parker guided cylinders feature a patented alignment coupler which allows the piston rod to self-center providing millions of trouble-free cycles.

Grippers

Parker's grippers are designed to incorporate high grip force to weight ratio, making them ideal for end of arm tooling and high-speed applications. Grippers are available in parallel, angular and three jaw configuration with grip forces to 3,000 lbs and feature single acting, double acting, spring assist or spring return options.

Vacuum Generators/Cups

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.

Pressure Sensors

Sensors provide extended features beyond the standard switch and allow for the automatic monitoring of system performance. Parker pressure sensors are available in output ranges from open collector transistor to 4-20ma feedbacks. Additionally, sensor display options can include Human Machine Interface for system maintenance.

Rotary Actuators

Parker is the industry leader in Pneumatic Rotary Actuators with output torques from 1 to 10,000 in-lbs. at 100 PSI. Configurations include rack and pinion and vane and are available in both metric and imperial designs. Rotary Actuators are suitable for lubricated and non-lubricated service and will produce millions of trouble-free cycles making them suitable for a wide range of pneumatic applications.

Fluid Connectors

Parker offers the industry's largest range of fluid connector products for any pneumatic application. Breadth of line includes brass and tube fittings, rubber hose products, thermoplastic products and quick couplings. Parker's global distribution and service centers ensure that you can get the connector products you need when and where you need them.



Pneumatic Cylinders & Slides Compact

P1M Series Extra Low Profile Cylinders



Efficient, compact design for use when space is at a premium. A unique internal transfer tube provides for single or dual end porting. Recessed magnetic piston sensing switches fit flush with the cylinder body to economize space and simplify machine automation.

- 10 standard bore sizes from 12 mm to 100 mm
- Stroke lengths customized to your application
- Industry and VDMA mounting interchanges

www.parker.com/pneu/p1m

P1M Tooling Plate



The Tooling Plate option adds non-rotating and additional load carrying capability to the extensive line of features provided by the standard P1M cylinder.

- 12, 16, 20, 25, 32, 40, and 50 mm bore sizes
- Flexible porting
- Industry interchangeable

www.parker.com/pneu/p1mtp

P1M Swing Clamp



The P1M Swing Clamp option offers clamping capability to the extensive list of features associated with the P1M cylinder. This option is ideal for clamping applications that have limited space available.

- 32, 40 and 50 mm bore sizes
- 10, 20 and 50 mm stroke lengths
- 90° clamp rotation
- Rotation reversible in the field

www.parker.com/pneu/p1msc

LP/LPM Series Low Profile Cylinders



Low-profile, lightweight aluminum cylinders fit tight space requirements. Non-lube service for pressures to 250 PSI.

LPM Series offers a magnetic piston when piston position sensing is required.

- 8 standard bore sizes from $\frac{9}{16}$ " to 4"
- Strokes from $\frac{1}{8}$ " to 6"
- 6 standard mounting styles

www.parker.com/pneu/LP

C05 Series Block Style Cylinders



Compact short stroke cylinders are ideally suited for clamping or locking applications in confined areas.

- 8, 12, 20, 32, 50 and 63 mm bore sizes
- Stroke lengths to 25 mm
- Single-acting and double-acting versions

www.parker.com/pneu/c05

P1G Series Cartridge Cylinders



Threaded body, cartridge style cylinders provide space savings and flexibility.

- 6, 10 and 16 mm bore sizes
- Stroke lengths to 15 mm
- Nickel plated body and stainless steel piston rod construction standard

www.parker.com/pneu/p1g

Pneumatic Cylinders & Slides Round Body

SR/SRM & SRD/SRDM Series Stainless Steel Body Cylinders



Cylinders include a 304 stainless steel body for space-saving, low-cost, high-performance operation in light-duty applications. Single and double-acting cylinders are pre-lubed. Pressures to 250 PSI.

- 12 standard bore sizes from 5/16" to 3"
- 28 mounting styles, full line of mounting accessories

The SRD/SRDM Series offers Delrin heads and caps for superior corrosion resistance.

- 5 standard bore sizes from 9/16"-2"
- Stroke lengths to 32" standard
- 2 mounting styles, custom to order

www.parker.com/pneu/sr

SRX Series Stainless Steel Body Cylinders



The SRX Series cylinder incorporates all of the proven features of the SR cylinder line with the addition of an integrated MLRT to provide accurate position feedback in an economical package.

- 1.06", 1.50", 2", 2.50" and 3.00" bore sizes
- 3 mounting styles
- Highly accurate position feedback capability
- Stroke lengths to 24"
- Controllers available

www.parker.com/pneu/srx

P1A Series Mini-ISO Cylinders



P1A Series cylinders are ideal for the food, packaging and textile industries. All P1A cylinders incorporate adjustable end cushions and magnetic pistons standard. Other standard features include 304 stainless steel bodies and piston rods and black anodized aluminum end caps for superior corrosion resistance.

- 5 standard bore sizes from 10-25 mm
- Stroke lengths from 20 to 500 mm
- Conforms to ISO 6432 dimensional specifications
- Single and double-acting versions available

www.parker.com/pneu/p1a



Round Body Pneumatic Cylinders & Slides

P1L Series High Performance, Repairable Round Body Air Cylinders



P1L Series cylinders are sleek, round body cylinders featuring threaded end caps for easy maintenance at either end. The P1L's short overall length, versatile mounting features and rugged bearing system equip it for applications where traditional NFPA cylinders may be too long, and where low profile cylinders may provide inadequate bearing support.

- 8 standard bore sizes from 20 to 100 mm
- Stroke lengths to 1,000 mm
- 9 standard mounting styles

www.parker.com/pneu/P1L

Miniature Tie Rod Pneumatic Cylinders & Slides

S Series Universal Midget Cylinders



S Series cylinders are available in single and double acting versions and are pre-lubricated to assure long service life. Standard options include fixed cushions, lipseal piston, and standard and oversize piston rods.

- 200 PSI pneumatic service
- 4 standard bore sizes from 3/4" to 1 1/4"
- Stroke lengths to 12"
- 5 standard mounting styles

www.parker.com/pneu/s

Pneumatic Cylinders & Slides Tie Rod

2MA Series Non-Lube NFPA Air Cylinder



Lightweight aluminum construction with proven reliability. The 2MA Series is specifically designed to meet the present demand for more efficient, inexpensive linear force and motion actuators. Standard options include adjustable cushions, bumper seals, fluorocarbon seals and stainless steel piston rods. Pressures to 250 PSI.

- 1¼" to 9 standard bore sizes from 1¼" to 8"
- Single or double-rod versions
- Strokes to any practical length
- 17 standard NFPA mounting styles
- Hydraulic service available

www.parker.com/pneu/2ma

2MAE Series Clean Plus Cylinder



The 2MAE incorporates a high-technology polymer-based coating (LECTROFLUOR®) to provide superior resistance to corrosion and chemical attack in hostile environment applications. Recommended for use where exposure to chemicals or corrosive agents, and/or problems of sanitary maintenance are critical. This includes food processing and

packaging equipment; in any application as an alternative to chrome plating or stainless steel.

- 5 standard bore sizes from 1-½" to 4"
- USDA approval/FDA compliance
- Broad chemical, abrasion and wear resistance
- 11 standard NFPA mounting styles

www.parker.com/pneu/2mae

2MA with Linear Position Feedback



The 2MA with linear position feedback provides features which assure reliable operation in many areas of automation and process technology, even under extremely ambient conditions.

- 7 standard bore sizes from 2" to 8"
- Magneto-strictive feedback technology
- Analog or digital outputs
- 11 standard mounting styles

www.parker.com/pneu/2MA-LP

2MNR Series



The 2MNR Series offers the addition of non-rotating capability to the extensive list of proven features associated with the 2MA. Built to withstand the high torsion loading, this cylinder comes standard with two different tooling plate options with specials offered by request.

- 6 standard bore sizes from 1⅛" to 4"
- Single or double-rod versions
- Built to any practical stroke length
- 10 standard NFPA mounting styles, plus base bar mount

www.parker.com/pneu/2mnr

2A/2AN NFPA Industrial Tie Rod Style Cylinders



Pre-lubricated, durable steel construction cylinder rated to 250 PSIG for the most demanding pneumatic applications. 2A/2AN cylinders offer 4 standard piston rod end configurations as standard and are available with cushions, end of stroke position sensing,

linear position sensing and a full line of mounting accessories.

- 13 standard bore sizes from 1" to 14"
- Rod sizes ½" to 5½" diameter
- Built to any practical stroke length
- 18 standard NFPA mounting styles

www.parker.com/pneu/2Aa



Tie Rod Pneumatic Cylinders & Slides

SA Series Stainless Steel Cylinders



The SA Series combines high strength stainless steel with proven reliability. Specifically designed to meet today's demand for rugged corrosion resistant cylinders, it can be used in harsh chemical washdown environments. This cylinder is also popular in the food processing industry when cleanliness and a bacteria-free environment is of most importance. Rated to 250 PSIG.

- 9 standard bore sizes from 1 1/8" through 8"
- Eight standard mounting styles
- Built to any practical stroke length
- NFPA interchangeable

www.parker.com/pneu/sa

P1D Series Non-Lube ISO Cylinders



The new P1D Series cylinders offer a number of innovations that can be achieved only by using the best possible materials and design. The result is a complete family of ISO/VDMA cylinders with exceptional performance. The Standard version offers the most cost effective solution. The Removable Gland version adds ease of repair and flexibility. The Clean version, with its positive geometry and hygienic design, offers a solution in washdown environments where cleanliness is key. The Tie Rod version offers a more traditional approach that can be utilized in multi-position cylinders.

- 10 standard mounting styles
- 7 standard bore sizes from 32 to 125 mm
- Four versions:
 - Standard version (die cast endcaps, composite piston)
 - Removable Gland version
 - Clean version (positive geometry/hygienic design)
 - Tie Rod version (traditional tube and tie rod design)
- Conforms to the ISO 6431/VDMA 24562 standards
- Rod locking device available

www.parker.com/pneu/p1d

Cylinder/Valve Combination

Pneumatic Cylinders & Slides

Cylinder/Valve Combination



The ACVB cylinder/valve system uses specially designed manifolds to accommodate the Parker B Series valves. The manifolds and valves are field-adaptable to standard NFPA cylinders. Flow controls are optional.

- For 2A, 2MA and MA cylinders
- Fits 1 1/4" to 5" bore cylinders
- Two manifold styles
- Three valve sizes
- Pressures to 145 PSI

www.parker.com/pneu/acvb

Pneumatic Cylinders & Slides Rodless

P1X Series Rodless Cylinders



The P1X Series compact rodless cylinders feature a high load carrying capability coupled with an oval piston design to provide a band-style rodless cylinder that meets today's aggressive performance requirements. In addition to its space saving features, the P1X Series incorporates a variety of options so that it can be applied to the widest range of applications.

- 7 standard bore sizes from 16 to 63 mm
- Built to stroke lengths of up to 5 meters
- Optional adjustable stroke/shock absorber option
- Magnetic piston and transfer porting standard

www.parker.com/pneu/p1x

P1Y Series Rodless Cylinders



The P1Y Series rodless cylinder is an innovative design, built with the highest quality components. With its unique design, it provides a maximum amount of performance. With different mountings and shock absorber options, the P1Y rodless cylinder should suit even the most demanding applications.

- 25, 32 and 40 mm bore sizes
- Available in strokes up to 7,000 mm
- Wrap-around bearing for high load bearing capability
- Multi-ported for easy plumbing

www.parker.com/pneu/p1y

P1Z Series Rodless Cylinders



The P1Z Series magnetically coupled rodless cylinders feature a magnetic piston and carriage that allow a rodless cylinder design with zero external leakage. Two versions are available: the basic version in which the load must be externally guided and a guided version that has the guides built in.

- 3 standard bore sizes – 16, 20, and 32 mm
- Basic and guided versions available
- Optional cushions and mounting styles on basic version
- Optional magnetic piston sensing and transfer porting on guided version

www.parker.com/pneu/p1z

HBBY Series Rodless Cylinders



The HBBY Series guided rodless cylinders feature the P1Y Series cylinders with a built-in gantry table. Utilizing a free floating connection between the cylinder and the table, the HBBY Series will provide millions of trouble free cycles.

- 4 support rod sizes – 20, 25, 30, and 35 mm
- Extremely high load bearing capability
- Composite and sealed ball bearings available
- Bumpers are standard

www.parker.com/pneu/hbby

P5T Series Short Stroke Thrusters



The P5T Short Stroke Thruster is designed for heavy duty, short stroke applications where compact designs are necessary. Standard piston wear bands and internal bumpers provide millions of trouble-free cycles even in high speed applications.

- Choice of composite bushings or recirculating ball bearings
- Optional corrosion resistant shafting, side and rear porting, flow controls and fluorocarbon seals
- Mounts on two sides
- Maximum operating pressure 10 bar (145 PSI)

www.parker.com/pneu/p5t

Series P5T	16	20	25	32	40	50	63	80	100
Bore size, mm	16	20	25	32	40	50	63	80	100
Maximum stroke, mm	100	125	150	200	200	200	200	200	200
Theoretical force, extend at 75 PSI (5 Bar), N lb	105 23.6	164 36.8	254 57	402 93	628 146	982 228	1559 362	2513 584	3927 913
Theoretical force, retract at 75 PSI (5 Bar), N lb	77.4 17.4	123 27.8	213.5 48	302 70	528 123	825 192	1492 326	2268 527	3574 856

P5L Series Guided Cylinders



The P5L Series Guided Cylinders are the most versatile metric guided cylinders available with three configurations and 8 bore sizes. The P5L series has a full range of available options and the highest load capacities available. The P5L is driven with the new round body, repairable P1L cylinder.

- Thrust, reach and base versions
- Optional shock absorbers, cushions, bumpers, micro adjusters, flow controls and multiple sensor options
- Through hole and fully adjustable T-slot mounting
- Direct mounting between thrust, reach and base versions
- Maximum operating pressure 10.3 Bar (150 PSI)

www.parker.com/pneu/P5L

Series P5L	20	25	32	40	50	63	80	100
Bore size (mm)	20	25	32	40	50	63	80	100
Max. suggested stroke (mm) (inch)	400 15.7	400 15.7	450 17.7	550 21.7	750 29.5	900 35.4	1000 39.4	1000 39.4
Theoretical force, extend at 80 PSI (lb)	39	61	100	156	243	386	623	974
Theoretical force, retract at 80 PSI (lb)	33	51	86	131	204	348	562	874

Pneumatic Cylinders & Slides Guided

P5S-P Series Precision Slide Table



The P5S-P Series double bore, precision slide table incorporates 4 sets to stainless steel recirculating bearings on two guide rails to provide for maximum repeatability and minimal deflection. Stroke adjusters with integral bumpers or shock absorbers can be mounted under the moving carriage or externally along side of the slide table.

- 12, 16, 20 and 25 mm bore sizes
- Optional internally or externally mounted Shock Absorbers and Bumpers
- Optional end of Stroke Lock
- Mid Position Stop creating a three position unit
- 0.03 mm repeatability
- Strokes to 250 mm
- Maximum Operating Pressure

www.parker.com/pneu/p5sp

HB Series Heavy Duty Guided Cylinders



The HB Series Guided Cylinders are available in six configurations and three bore sizes. With a complete line of options and load capacities to 1100 lbs, the HB Series solves most any demanding guided cylinder application. A new option now includes a base version driven by the PIY rodless cylinder that is ideal for applications in which space is a premium. (See page 14.)

- Thrust, reach and base styles
- Choice of NFPA or ISO cylinder
- Composite bushings or linear ball bearings
- Optional sensors, oversized shafting, shock absorbers, cylinder cushions, external bumpers, adjustable stop collars, flow controls, fluorocarbon seals, 3-position cylinders, cylinder rod lock
- Mounts on three sides
- Maximum operating pressure 10.3 Bar (150 PSI)

www.parker.com/pneu/hb

Series HB	15	20	25
Bore size (NFPA cylinder), inch	1½	2	2½
(ISO cylinder), mm	40	50	63
Maximum suggested stroke, inch - HBN	6	6	8
HBC	8	10	12
HBT	24	30	36
HBR/HBB	30	36	42
Theoretical force, extend at 80 PSI, lb	142	251	393
Theoretical force, retract at 80 PSI, lb	117	226	368

Guided Pneumatic Cylinders & Slides

P5E Series Guided Cylinders



The P5E Series Guided Cylinder features a cast aluminum housing providing maximum strength while maintaining a light weight, compact design. An alignment coupler, which allows the piston rod to self-center, used in conjunction with Parker's premier MP Series cylinder, provides maximum life.

- ISO6431 and DIN24335 cylinder
- Choice of composite bushings or recirculating ball bearings
- Magnetic piston standard for use with reed switches or Solid State sensors
- Optional oversized shafting, bumpers and adjustable stop collars, flow controls
- Mounts on three sides
- Maximum operating pressure 10 bar (145 PSI)

www.parker.com/pneu/p5e

Series P5E	32	40	50	63	80	100
Bore size, mm	32	40	50	63	80	100
Maximum suggested stroke, mm	500	625	725	950	1150	1350
Theoretical force, extend at 75 PSI (5 Bar), N	402	628	982	1559	2513	3927
lb	93.5	146.1	228.3	362.4	584.3	913.0
Theoretical force, retract at 75 PSI (5 Bar), N	346	528	825	1402	2268	3682
lb	80.3	122.7	191.7	325.9	527.3	856.0

Complementary Products

3TK Series Air/Oil Tanks



Converts shop air pressure into hydraulic pressure. The economy and availability of compressed air is combined with the precise control of hydraulics. The internal baffling system prevents the mixing of the air and oil to insure control and reliable service. The fiberglass tube allows easy monitoring of oil levels.

- Six standard bore sizes from 2½" to 8"
- Lightweight, aluminum/fiberglass design
- Premium quality

www.parker.com/pneu/3tk

Industrial Shock Absorbers



Parker industrial shock absorbers decrease machine down time and increase productivity by reducing impact damage.

- Industry interchangeable
- Miniature, small, medium and large bore sizes available
- Metric and inch mounting threads available
- Highest effective weight ratings

www.parker.com/pneu/shocks

Rotary Actuators Vane Style

PRN/PRNA Series Rotary Actuator



The PRN/PRNA Series uses a rounded vane design in its nine sizes, helping to reduce vane seal leakage and lower breakaway pressure. The PRN/PRNA also has an optional, externally mounted hydraulic shock absorber which can be used in high inertial load applications.

- Single and double vane
- Miniature and standard models
- Optional Hall effect or reed switches and hydraulic shock absorber (hydro-cushion)
- Foot or flange mounting
- Maximum operating pressure 9.7 Bar (140 PSI)

www.parker.com/pneu/pr

Series PRN	1	3	10	20	30	50	150	300	800
Standard rotation (°) – Single vane	90,180	90,180,270			–	90, 180, 270	–	–	–
Double vane	–	90	90	90	90	90,100	280, 90,100	90,100	90,100
Output torque (in-lb) at 45 PSI – Single vane	0.5	1.4	4.0	7.0	16	22.6	73.0	142	508
Double vane	–	2.9	8.9	15	39	50.3	163	335	1028
Output torque (in-lb) at 100 PSI – Single vane	1.4	3.3	11	21	42	57.8	172.4	331.4	1178
Double vane	–	6.7	21	47	99	124.8	393.3	794	2355

PV Series Rotary Actuator



The PV Series is available in eight sizes and either single or double vane configurations. Precision extruded bodies and hard coat anodized components provide millions of maintenance-free cycles.

- Optional stroke adjusters
- Single or double ended shafts
- Rear porting, flow controls and fluorocarbon seals
- Flange, face or base mounting options
- Maximum operating pressure 10 Bar (145 PSI)
- Single and double vane

www.parker.com/pneu/pv

Series PV	10	11	22	33	36	42	44	46
Standard rotation – Single vane	275°	275°	280°	280°	280°	280°	280°	280°
Double vane	95°	95°	100°	100°	100°	100°	100°	100°
Actual output torque at 50 PSI – Single vane	4	8	32	75	150	140	285	425
Double vane	8	17	68	155	315	300	600	900
Actual output torque at 100 PSI – Single vane	8	16	64	150	300	285	570	850
Double vane	16	33	135	315	630	600	1200	1800
Displacement, in ³ – Single vane	0.52	1.04	3.67	8.70	17.40	17.80	35.61	53.41
Double vane	0.37	0.74	2.62	6.20	12.40	14.58	29.17	43.75

Rack & Pinion Style Rotary Actuators

XR Series Rotary Actuator



The XR Series is designed for light-duty pneumatic applications. With five sizes up to 2" bore, and a compact low profile design, the XR is ideal for smaller pneumatic automation applications.

- Choice of 4 shaft types
- Optional port location, cushions, bumpers, shock/stroke adjust, antibacklash actuator, magnetic piston, flow controls, fluorocarbon seals
- Standard base mount with optional front or rear face mount
- Maximum operating pressure 10.3 Bar (150 PSI)

www.parker.com/pneu/xr

Series XR	05	07	10	15	20
Standard rotations (all models)	90°, 100°, 180°, 190°, 270°, 280°, 360°, 370°				
Actual output torque at 50 PSI, lb-in	3	8	20	49	118
Actual output torque at 100 PSI, lb-in	6	17	40	99	236
Displacement per degree rotation, in ³	0.001	0.003	0.007	0.017	0.041

PTR Series Rotary Actuator



The PTR Series Rack and Pinion rotary actuator is available in five bore sizes and either single or double rack providing a wide range of output torques.

High capacity shaft bearings and a unique floating piston design, with two wear bands per piston, give the PTR Series the longest life span and highest quality of any rotary actuator available.

- Zero internal and external leakage
- Optional cushions, bumpers or shock absorbers, sensing, stroke adjust, 3-position cylinder, anti-backlash actuator, air/oil operation, port flow controls, shaft seal covers
- Standard base mount with optional front or rear face mount
- Maximum operating pressure 17 Bar (250 PSI)

www.parker.com/pneu/ptr

Series PTR	10	15	20	25	32
Standard rotation (all models)	90°, 180°, 270°, 360°, 450°				
Theoretical output torque at 50 PSI Input, lb-in:					
Single rack	19	59	141	215	570
Double rack	39	118	282	430	1,141
Theoretical output torque at 100 PSI Input, lb-in:					
Single rack	39	118	282	430	1,141
Double rack	79	236	565	859	2,281
Theoretical output torque at 250 PSI Input, lb-in:					
Single rack	98	294	705	1,074	2,852
Double rack	197	590	1,410	2,148	5,703
Displacement per degree rotation, in ³					
Single rack	0.007	0.021	0.049	0.075	0.199
Double rack	0.014	0.042	0.099	0.150	0.398

Rotary Actuators Rack & Pinion Style

HP Series Heavy Duty Rotary Actuators



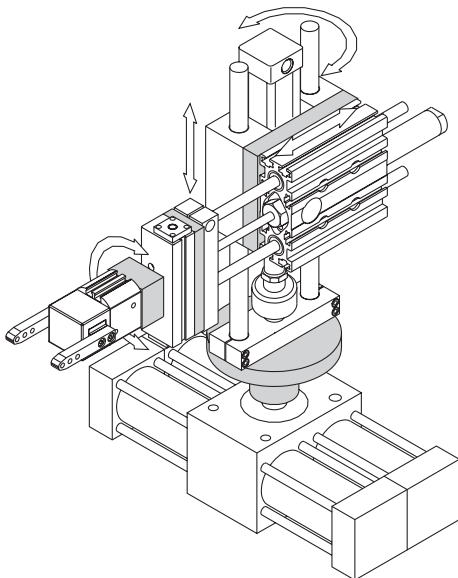
The HP Series is designed for large, heavy duty applications. With output torque to 10,000 in-lbs and kinetic energy ratings in excess of 600 in-lbs, the HP Series can handle the most demanding pneumatic rotary actuator needs.

- Heavy duty construction
- Choice of 4 shaft styles
- Optional cushions, stroke adjust, fluorocarbon seals
- Maximum operating pressure 7 Bar (100 PSI)

www.parker.com/pneu/hp

Series HP	4.5	10
Standard rotation (all models)	90°, 180°, 360°	90°, 180°, 360°
Actual output torque at 100 PSI, lb-in	4500	10,000
Displacement, in ³		
90° Rotation	79.93	177.64
180° Rotation	159.86	355.28
360° Rotation	319.72	710.56

Multi-Axis Systems



Linear guided cylinders, rotary actuators, pneumatic grippers and vacuum components can be used individually or in combination to form modular handling systems for pick and place applications. Parker offers a wide range of mounting plates and couplers ready to use with standard components.

Utilizing the simplicity of air power and pre-engineered components provides top performance and reliability while reducing the cost of simple automation projects.

www.parker.com/pneu/multi



Single Source Supplier for All Automation Needs

With 26 series of grippers available in more than 1,000 configurations, Parker Hannifin has a complete line of Pneumatic Grippers suitable for any pneumatic gripping application.

Grippers are available in either true parallel, 30° or 180° gripping configurations along with any number of design forms which provide precise form and function fits for each unique application.

Parker Hannifin grippers are designed to incorporate high grip force to weight ratio, making them ideal for end of arm tooling and high speed applications. This allows down-sizing of other system components resulting in substantial cost savings. Hardened steel jaws provide the high-strength mounting surfaces necessary for rigid mounting. High precision linear bearings and hard coat anodized wear parts provide millions of trouble-free cycles, even under extreme loading.

With the Pneumatic gripper offering available through Parker Hannifin, there should be no automation application that cannot be handled. Whether it is a high speed semi-conductor application which requires a lightweight, clean room certified gripper with high precision or an automotive application in which extreme force and loading is involved, Parker is sure to have a gripper to suit your application needs.

Standard Options:

Gripper options include spring assist or spring return grippers which provide a fail-safe mode in the event of a power failure. This option allows the gripper to also be used in a single acting fashion.

For dirty environments, dust covers or wiper assemblies can be provided to prevent contaminants from destroying the inner mechanisms of the gripper. With the addition of a purge port, designed to remove particulate contamination, the grippers become clean room certified.

Connectivity:

With the addition of transition plates and transition couplers, Parker has the ability to link Pneumatic grippers and slides in any combination.

Specifications:

- Stroke Ranges: 0.12 to 6.0 inches
- Grip Forces: up to 3000 lbs
- Operating Characteristics:
 - Single acting
 - Double acting
 - Spring assist and spring return
- Cycle Life: 10 million cycles

www.parker.com/pneu/pgrippers

Parallel Grippers

Series	Max. Strokes	Total Grip Force lb	Metric Design	Clean Room	Spring Open	Spring Close	Synch	Non-Synch	Reed/Hall	Prox	High Temp Seals
GPR	10-20 mm	7-32	x	–	–	–	–	–	–	s	–
GPCR	4-14 mm	6-51	x	*	o	–	–	–	s	–	–
P5G-HPM	0.13-0.25 in	8	–	o	o	–	–	x	–	–	o
P5G-HP (mini)	0.16-0.25 in	25-64	o	–	–	–	x	–	–	–	–
P5G-HP	0.25-1.50 in	35-694	o	–	–	–	x	–	–	s	–
GPT	0.625 in	22-44	–	–	–	–	x	–	s	s	o
P5G-AP	5.3-17.9 mm	31-208	x	–	o	o	x	–	o	o	o
GPEL	16-22 mm	10-27	x	–	–	–	–	x	–	s	–
GPDL	16-80 mm	10-65	x	–	–	–	x	–	–	s	–
P5G-HPL	0.25-1 in	25-33	o	o	–	–	x	o	s	–	o
P5G-RH	4-18 mm	22-397	x	–	–	o	–	–	s	–	–
P5G-HP-P	0.5-3.0 in	23-498	o	–	–	–	x	–	–	s	o
GPK	24-50 mm	20-90	x	–	–	–	x	–	–	s	–
P5G-HPW	0.75-4.50 in	45-450	o	–	–	–	x	o	–	s	o
P5G-HPB	4-6 in	600	–	–	–	–	–	–	–	s	x
P5G-HPC	0.3-1.38 in	80-2800	o	*	–	–	x	–	s	–	o

x = standard, o = optional, s = order separately, * = dust cover

www.parker.com/pneu/pargrip

Angular Grippers

Series	Max. Stroke	Grip Force (lb)	Metric Design	Dust Cover	Spring Open	Spring Close	Synch	Non-Synch	Reed/Hall	Prox	High Temp Seals
GVC	30°	11-36	x	–	o	–	x	–	–	s	–
GAA	30°	24-56	–	–	–	–	x	–	s	s	o
P5G-HA	30°	11-134	o	–	–	–	x	–	s	–	o
P5G-AA	30°	17-198	x	–	–	o	x	–	s	o	o
P5G-RK	30°	7-521	x	o	–	–	x	–	–	s	–
P5G-HA	12°	62-220	o	–	–	–	x	–	–	s	o
3H2	30°	121	x	x	o	–	x	–	–	o	–
GVH	180°	5-53	x	–	–	–	x	–	–	s	–
GAW	180°	24-30	–	–	–	–	x	–	s	s	o
P5G-AW	180°	13-65	x	–	–	o	x	–	s	o	o
P5G-RB	180°	13-142	x	o	–	–	x	–	–	s	–

x = standard, o = optional, s = order separately

www.parker.com/pneu/angrip

Solenoid Operated Pneumatic Valves

Moduflex Series



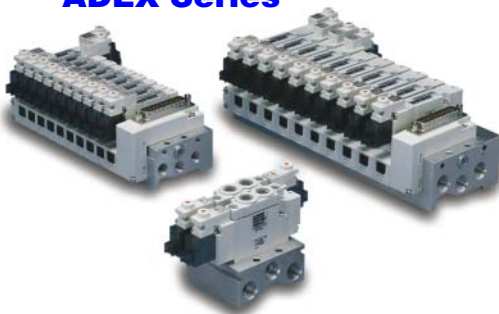
With high performance technology, Moduflex opens a new era in the field of electro-pneumatic automation. Valves may be stand-alone or assembled into short long islands, depending on the application. With IP 65-67 water and dust protection, the valves can be installed near the cylinders for shorter response time and lower air consumption. Metric sizes are also available. Island modifications are easy and adding or removing a valve or changing a valve function, tubing size, or piloting can be done

in minutes. Moduflex is offered with DeviceNET, Profibus-DP, Interbus-S, CANopen and ASi serial bus communication protocols.

- 2 valve sizes
- 3-way, 2 position single, 4-way, 2-position single and double, dual 3-way, 2 position, 3-pos CE, APB and PC
- 5/32" or 1/4", 1/2" push-in fittings
- Peripherals include flow controls, pressure regulators and dual PO check modules
- Cv = 0.32 to 0.8

www.parker.com/pneu/moduflex

ADEX Series



Valves utilize 0.6 watt solenoids with LED and surge suppression. The collective wiring system available for A05 and A12 valves accommodates up to 12 stations and connects with Sub-D 25 or 26-pin ribbon.

- 4-way, 2 and 3-position and 3-way, 2 position (NO or NC)
- Inline or bar manifold mounted
- Collective wiring system - Sub-D 25 or 20-pin Multi connector

www.parker.com/pneu/adex

Series	A00	A05	A12
Function	3/2 NO, NC	4/2, 4/3	4/2, 4/3
Port Size(s)	M3	M5	1/8" NPT, BSP
Flow, Cv	0.01	0.18	0.47

15 mm Series



Compact, simple design utilizes 15 mm low-watt solenoids with a wide range of voltages. Manifold allows mounting of normally open and normally closed operators simultaneously. Up to 20 stations available. Operating pressure vacuum to 145 PSIG (10 bar).

- 3-way, 2-position
- M5 cylinder port
- Manifold or subbase mounted
- Cv = 0.033 standard, 0.05 high flow

www.parker.com/pneu/15mm

Pneumatic Valves Solenoid Operated

MicroKing Series

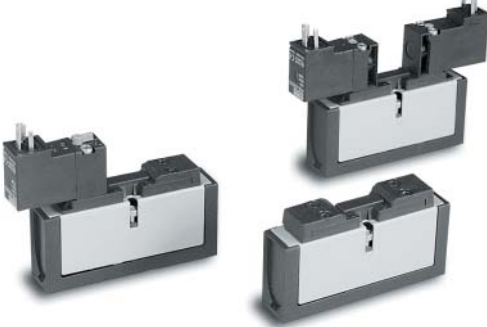


Sandwich and subbase manifold regulators. 4.8 watt continuous duty solenoids with 24" grommet, 3-pin DIN or 1/2" conduit connection.

- 3 and 4-way, 2-position valves
- 1/8" NPT or BSP, M5 and 1/4" tube ports
- Inline, manifold or subbase mounted
- Cv = 0.19 (3-way) 0.18 (4-way)

www.parker.com/pneu/microking

ISOMAX Series



Polyamide reinforced Fiberglass body with hard anodized aluminum cover. Features Ceramic Technology for maintenance-free service. Mounted on VDMA subbases, standard 14563, ISO 15407-1 and UNITOP RU-P/3. Valves can be vacuum operated. Solenoid pilot exhaust may be captured, and internal/external piloting is possible using gasket selectors. Operating pressure range 30-145 PSIG (2-10 bar).

- 2 and 3-position ISO valves
- 1/8" and 1/4" ports on manifold
- Subbase manifold mounted
- Cv = 0.50 (1/8") and 0.75 (1/4")

www.parker.com/pneu/isomax

PVL Series



Easy in, easy out stack assembly speeds installation and makes future configuration changes or service fast and simple. Output ports available either threaded or with instant tube fittings. Thin valve cross sections allow for more valve outputs in a smaller package. Stack has two common exhaust galleries.

- Three body sizes
- Stacking manifold valves designed for DIN rail mounting
- Single and double solenoid or air pilot operated

www.parker.com/pneu/PVL

Series PVL	A	B	C
Function:			
Single Operated	1/2	1/2	1/2
Double Operated	1/2	1/2, 1/3, dual 1/2	1/2, 1/3, dual 1/2
Threaded Port Size(s)	M5	1/8" NPT, BSP	1/4" NPT, BSP
Port Tube Fittings	5/32"	1/4", 6 mm	3/8", 8 mm
Flow, Cv	0.17	0.6	1.2



Solenoid Operated Pneumatic Valves

B Series



Compact, high-performance spool valves feature **WCS** (Wear Compensation System) sealing system for extended life. Optional sandwich regulators and overrides. Variety of voltages and coil enclosures. Maximum operating pressure 10 bar (145 PSI).

- 3 or 4-way, 2-position single solenoid or remote pilot. Dual 3-way available on B3 valves
- 4-way, 2 or 3-position double solenoid or remote pilot
- Inline, subbase, manifold or bar manifold mounting (NPT or BSPP ports)

www.parker.com/pneu/b

Series B	3	4	5	6	7	8
Port Size(s)	1/8", 1/4"	1/4"	1/4", 3/8"	3/8"	1/2"	3/4"
Flow, Cv	0.75	1.22	1.40	2.70	4.90	7.00

H Series



ISO valve patterns are globally interchangeable between manufacturers. Designed for non-lube service for millions of trouble-free cycles. A full complement of sandwich regulators and flow controls add to the flexibility of the H Series. ISO 5599/1 includes 22 mm and 30 mm CNOMO solenoid pilots, as well as NEMA 4 "Automotive" style mini and

micro-connectors. ISO 5599/2 valves have body to base plugs which hide wiring and make valve replacement fast and easy.

- 4-way, 2 and 3-position
- Conforms to ISO 5599/1 and 5599/2
- ISO sizes 1, 2, 3 and 4
- Subbase and manifold mounted

www.parker.com/pneu/h

Series H	1	2	3	4
Port Size(s)	1/4", 3/8", 1/2"	3/8", 1/2"	1/2", 3/4"	3/4"
Flow, Cv:				
2-Position	1.55	3.6	6.6	7.4
3-Position CE	1.35	3.70	6.40	5.2
3-Position APB	1.35	3.10	6.30	5.2

Pneumatic Valves Solenoid Operated

N Series High-Speed Poppet Valves



Compact inline design in three body sizes features a short stroke poppet for fast, consistent response. Pre-lubed for non-lube service. Suitable for low pressure and vacuum service with external pilot. Special service pilots available for applications requiring continuous duty operation. Pressures to 250 PSIG.

- 2 and 3-way, 2-position
- Three body sizes
- Normally open or normally closed
- Inline mounted

www.parker.com/pneu/n

Series N	3/8" Body	3/4" Body	1 1/4" Body
Port Size(s), NPT	1/4", 3/8", 1/2"	1/2", 3/4", 1"	1", 1 1/4", 1 1/2"
Flow, Cv	3.0 to 4.4	9.0 to 11.0	20.0 to 30.0

Cyclone Series



General purpose and hazardous duty valves for use with gasses, liquids or vacuum service. Grommet, conduit or spade housings are rotatable for ease of installation. Maximum pressure 500 PSIG.

- 2 and 3-way, 2-position
- 1/8" and 1/4" inch ports
- Inline or surface mounted
- Direct solenoid operated
- Cv = 0.02 to 0.73

www.parker.com/pneu/cyclone

Solstar Series

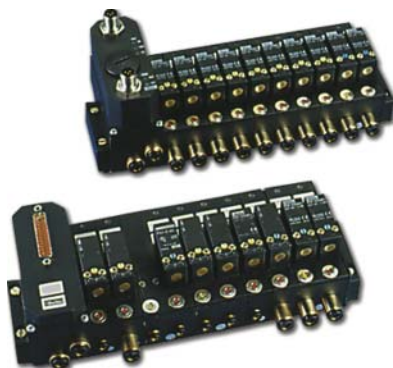


System modification or expansion is as simple as adding valves to the stack. Intermediate supply modules enable different pressures to be used on the same manifold. Low watt 15 mm solenoids with LED and surge suppression available in a wide variety of voltages. Up to 20 stations available. Operating pressure to 145 PSIG (10 bar).

- 3-way, 2-position (NO or NC)
- Modular stacking system, DIN rail mounting
- Integral “plug-in” electrical connection
- $\frac{5}{32}$ " push-in tube outlet fittings
- Cv = 0.033 (NO), 0.05 (NC)

www.parker.com/pneu/solstar

Interface 2000 Series



Full flow capacity allows direct operation of small cylinders or pneumatic piloting of larger control valves. System is easily modified or expanded by adding modules to the stack. Modules snap together with integral electrical pin connections. Common air supply and exhaust connections through the manifold. IP65 protection. Multiple pressures are possible in one assembly.

Small serial bus electronic package. Automatic addressing of up to 16 valves. Compatible with DeviceNet™, Profibus-DP®, Interbus-S®, and ASI®.

- 3 and 4 way, 2-position single or double operated
- $\frac{5}{32}$ " or $\frac{1}{4}$ " push-in tube fittings
- Modular stacking valves for DIN rail mounting
- Cv = 0.19

www.parker.com/pneu/int2000

PVLB10/PVLC10 Series



Easy in, easy out stack assembly speeds installation and makes future configuration changes or service fast and simple. Output ports available either threaded or with instant tube fittings. Thin valve cross sections allow for more valve outputs in a smaller package. A no-wire stack system facilitates its “plug and play” design. Two forms of mass termination electrical connectors (25 or 35 pin) communicate to the valve via interconnect boards. Feedback and output modules can be combined into the

valve stack to further enhance the valves adaptability into machine systems. Operating pressures from 30 to 150 PSIG.

- 2 Valve body sizes
- 4-way, 2 and 3-position
- $\frac{1}{8}$ " and $\frac{1}{4}$ " inch ports or $\frac{1}{4}$ " and $\frac{3}{8}$ " inch tube fittings
- Stacking (designed for DIN rail mounting)
- Compatible with Profibus-DP®, DeviceNet™, Interbus-S® and ASI
- Cv = 0.6 to 1.20

www.parker.com/pneu/PVLx10

Pneumatic Valves Electro-Pneumatic

FlexSAM Serial Bus System

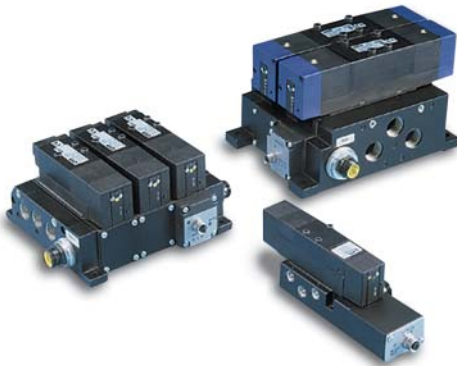


FlexSAM's completely modular design allows for field retrofits and expansion. The system offers the ability to turn off all the outputs while keeping communications and inputs active. Solenoid and output diagnostics ease troubleshooting. Available with F3, F5, F7, H1, H2 and H3 Series valves.

- Capable of handling 32 inputs and 32 outputs
- Compatible with PNP and NPN inputs
- NEMA 4 protection
- Compatible with DeviceNet™, Allen-Bradley Remote I/O and Profibus-DP®

www.parker.com/pneu/flexsam

Serial Addressable Module - Generation 3.0



SAM Generation 3.0 modules are designed for simplicity and power. Typical applications include areas of control requiring one to four valves with sensor feedback needs located a distance from the central control panel. SAM Generation 3.0 allows users to wire up to 4 external inputs (such as actuator proximity switches) back to the valve.

Perfect for applications where space is a premium, the SAM 3.0 package takes up only slightly more space

than the standard valve/base assembly it is attached to. Compatible with F3, F5, F7, H1, H2 and H3 Series valves.

- Self-contained valve module with inputs
- Designed for one to four valves
- Maximum four solenoids and four external inputs
- Compatible with DeviceNet™

www.parker.com/pneu/sam3

Pneumatic Valves Proportional Regulators

PAR-15 Series



PAR-15 controls the division of a single inlet pressure into any one of fifteen equally spaced output pressures. The valve's response is instant and repeatable, reducing the need for expensive feedback controls.

- 3-way multi-pressure select valve
- Solenoid operated
- 1/2" body ports, 1/8" pilot ports
- Functions as precise, high-flow, multipurpose regulator

www.parker.com/pneu/par15

P3P-R Series



P3P-R controls the output pressure proportionally to an analog electrical signal. A high degree of precision is achieved by internal feedback through an integrated pressure sensor.

- Integrated electronic control
- Pulse width modulated solenoids
- 1/8", 1/4" and 1/2" ports
- Functions as precise, high-flow, multipurpose regulator

www.parker.com/pneu/p3pr

Directair Series



Compact, stainless steel spool valves with lightweight aluminum construction offer a wide range of rugged operators, providing solid performance and application flexibility. Choose from hand lever, knob, lockdown, palm button, roller, plunger, tripper, or operators. 1/8" valves also available in a poppet design. Operating pressure vacuum to 150 PSI.

- 3 and 4-way, 2 and 3-position
- 1/8" and 1/4" inch ports
- Inline mounted
- 14 different manual/mechanical operators
- Cv = 0.12 to 0.83

www.parker.com/pneu/directair

Series Directair 2	Plunger	Roller	Tripper	Toggle	Button	Hand Lever	Treadle	Pedal
3-Way Poppet	✓	✓	✓	✓	✓	✓	–	–
3-Way Spool	✓	✓	✓	✓	✓	✓	–	–
4-Way Spool	✓	✓	✓	✓	✓	✓	–	–
Directair 4	–	–	–	–	–	Lever	–	–
3-Way Spool	–	✓	–	–	✓	✓	✓	✓
4-Way Spool	–	✓	–	–	✓	✓	✓	✓

42 Series



Single piece spool with molded Buna N seals for long, trouble-free life. Available with manual lever and foot pedal. Maximum operating pressure 150 PSIG.

- 4-way, 5-port, 2 and 3-position
- 1/4" and 3/8" inch ports
- Inline Mounted
- Manually operated
- Cv = 1.30 to 2.90

www.parker.com/pneu/42ser

Sliding Seal Valves



Rotary disc design with 1/4" to 1/2" ports has Cv from 2.5 to 6. Sliding seal design with 1/8" and 1/4" ports has Cv from .54 to 1.25.

- 3 and 4-way, 2 and 3-position
- 1/8" through 1/2" inch ports
- Surface mounted
- Manually operated

www.parker.com/pneu/ssv

Control Panel Products



Push button switches provide single or multiple air pilot control signals to larger power valves. Switch bodies come with or without a mounting base. A variety of 22 mm operating heads are available to create momentary or maintained pressure signals.

Visual indicators take the place of electric pilot lights in pneumatic systems. They indicate the presence or absence of a pneumatic signal.

Counters use air input to control a mechanical counting assembly. Rotary selector switches provide a single discrete output as prescribed by selector position.

- 22 mm modular push button switches
- Visual indicators
- Totalizing and pre-determining counters
- Rotary selector switches

www.parker.com/pneu/cpp

Limit Valves & Sensors



Miniature limit switches are available with plunger, roller or roller lever operators with 10-32 threaded or 5/32" instant tube fittings. Standard duty limit switches with 5/32" instant tube fittings offer plunger, whisker, roller and spring rod operators.

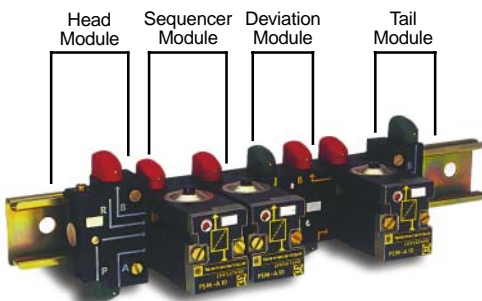
Threshold sensors provide electrical or pneumatic feedback information on pneumatic (air) cylinder status. Ideal for variable stroke applications. Banjo fitting can be used with either pneumatic or electrical sensor.

Blocking valves are designed for precise, repeatable stopping of moving cylinders or to maintain the position of a cylinder in the event of an air pilot signal loss. Port sizes from 1/8" to 1/2" inch and a choice of threaded or instant tube fittings.

- 3-way, 2-position miniature and standard duty limit switches
- Cylinder port mounted threshold sensors
- Blocking air control valves

www.parker.com/pneu/limsen

Air Logic Control Systems



Virtually all production machines using pneumatic actuators operate in a dedicated and repeatable sequence or cycle. The purpose of any control method is to insure that all steps of the machine's cycle occur as intended. The sequencer constitutes the backbone of a Telepneumatic control circuit. The sequencer's poppet design provides long life using only shop air. Since it is modular, the sequencer can easily be configured to any application cycle requirement. Logic elements and supporting

relays provide for other application needs such as safety conditions, operating modes and time delays.

- Sequencer module
- Logic elements: and, or, not, yes, memory
- Time delay relays
- Amplifier and sensor relays
- Fixed and variable pulse units
- Pneumatic pressure level switch
- Head and tail set for DIN rail mounting
- Two hand control module

www.parker.com/pneu/airlogic

Flow Controls and Accessories



Rugged brass bodies and nitrile seals offer dependable performance and long life. Fluorocarbon seals available on many valves for high temperature operation.

- Inline flow controls, 1/8" to 1 1/2" ports
- Micrometer flow controls, 1/8" to 3/4" ports
- Right angle flow controls, M5 to 1/2" ports

- Slow Start flow controls, 1/4" and 3/8"
- Needle and check valves 1/8" to 3/4" ports
- Quick exhaust valves, 1/8" to 3/4" ports
- Relief valves, pop off and adjustable diaphragm styles

www.parker.com/pneu/flowctl

Metric Flow Controls



- Prestoflow flow regulators, M5 to 3/4" BSPP
- Prestostart pneumatic slow start fittings
- Flow control blocking valves
- Prestobloc pilot-operated blocking fittings
- Inline flow control valves
- Prestoload pilot-operated unloading fittings

- Prestotwin combined flow blocking/unloading valves
- Prestosensor pressure sensor fittings
- Prestoreduce pressure reduction fittings
- Prestosil silencer and flow control valve

www.parker.com/pneu/metricfc

Silencers & Mufflers



Silencers give superior performance in noise control with a minimum effect on air efficiency. Sintered bronze mufflers are compact and reduce noise with a minimum of flow restriction and back pressure. Operating pressures to 250 PSIG and operating temperatures to 300°F (plastic silencers to 140°F).

- Metal silencers with port sizes from 1/8" to 1 1/2" NPT or BSPT
- Plastic silencers with port sizes from M5 to 1/8" NPT or BSPT
- Sintered bronze muffler/filters with port sizes from 1/8" to 1 1/2"
- Muffler/flow controls with port sizes from 1/8" to 1"
- Breather vents with port sizes from 1/8" to 1 1/2"

www.parker.com/pneu/silmuf

Ball Valves



- 2-way standard and vented
- Rugged forged bodies for long life
- Polypropylene bodies for corrosion resistance
- Handle options, padlocking

www.parker.com/pneu/ball

Series	Style	Body Material	Connection Type	Port Sizes	Flow (Cv)
500	Std/vented	Brass	Female	1/4"-1"	4.0-35.0
501	Std/vented	Brass	Male/Female	1/4"-1"	6.3-35.0
502	Panel mount	Brass	Female	1/4"-1"	4.0-35.0
520	–	Brass	Female	1/4"-2"	4.0-224
590	90°	Brass	Male/Female	–	3.0-11.0
591	90°	Brass	Male	–	3.0-11.0
ACT	Rotary driven	Brass/SS*	Female	1/4"-1"	4.0-35.0
BVGC	–	Brass NP	Female BSPP	1/4"-2"	4.0-224
BVGL	–	Brass NP	Female/Female long	1/4"-2"	4.0-224
MBVG	Compact	–	Female BSPP	1/4"-3/8"	4.0-6.0
BVGP	Locking handle	–	–	1/4"-2"	2.0-224
200/608/609	Mini	–	–	1/8"-1/2"	2.0-12.0
Propylene	FDA & NSF 51	Polypropylene	NPTF/Tube	NPTF 1/8"-1/2" Tube 1/4"-3/8"	2.0-12.0

* SS 1/4"-1/2" only
NP=Nickel Plated

Lockout Valves



Rugged cast aluminum alloy construction. Bright color for easy identification. Optional exhaust muffler available. Comply with OSHA procedures.

- 3-way operation
- 1/4" to 1 1/4" ports
- Inline or surface mounted
- Locking hasp for padlock
- Operating pressure to 250 PSIG

www.parker.com/pneu/LV

Muffler-Reclassifier



Muffler-reclassifier improves plant environment by removing oil aerosols that are exhausted from valves, cylinders and air motors. Also silences exhaust noise to below OSHA requirements. Metal retained construction with plugged or continuous drain option.

- 1/2" and 1" ports
- 99.97% oil removal efficiencies
- 25 dBA noise attenuation

www.parker.com/pneu/ecr


Pressure Sensors

	Series	Pressure Range	Output Type	Media	Max. IP Rating	Hysteresis O/P Mode Adjustment	Output Setting	Display
	MPS-1 Basic	0 to 145 PSI 0 to -30 in Hg 0 to 14 PSI	(1) NPN/PNP with Analog	Air, Non-corrosive Gas	65	Variable, 3 to 20% F.S.*	Trim Pot	–
	MPS-2 Versatile	0 to -30 in Hg -14.7 to 72.5 PSI	(2) NPN/PNP	Air, Non-corrosive Gas	65	Variable, 100% F.S.*	Push Button	LED (Red)
	MPS-3 Versatile Panel Mount	0 to 145 PSI 0 to -30 in Hg 0 to 14 PSI -14.7 to 72.5 PSI	(2) NPN/PNP Analog option	Air, Non-corrosive Gas	65	Variable, 100% F.S.*	Push Button	LED (Red)
	MPS-3 SS Stainless Steel	0 to 145 PSI 0 to -30 in Hg 0 to 14 PSI	(2) NPN/PNP Analog option	Fluid, Non-corrosive to 316L or 630 SUS	65	Variable, 100% F.S.*	Push Button	LED (Red)
	MPS-31 Color Panel Mount	0 to 145 PSI 0 to -30 in Hg -14.7 to 72.5 PSI	(1) NPN/PNP or 4-20ma	Air, Non-corrosive Gas	40	Variable, 100% F.S.*	Push Button	LED (Red/Green)
	MPS-4 Differential	-8 to 8 in H ₂ O 0 to -29.8 in Hg	(2) NPN/PNP Analog option	Air, Non-corrosive Gas	40	Variable, 100% F.S.*	Push Button	LED (Red)
	MPS-5 Transducer	0 to 145 PSI 0 to -30 in Hg	Analog	Fluid Non-Corrosive to 316L or 630 SUS	65	–	–	–
	MPS-6 Compact	0 to 145 PSI 0 to -30 in Hg 0 to 14.7 PSI	(1) NPN/PNP or (1) Analog	Air, Non-corrosive Gas	40	–	Trim Pot	–
	MPS-7 Remote Display	Remote Panel: Use with MPS-5, 6, 8	71: (2) NPN/PNP Analog option 74: (1) NPN/PNP	–	40	Variable, 100% F.S.*	Push Button	LED (Red)
	MPS-8 Mini	0 to -30 in Hg -14.7 to 72.5 PSI	(1) NPN/PNP or (1) Analog	Air, Non-corrosive Gas	40	Fixed, < 2% F.S.*	Trim Pot	–
	MPS-9 Thin	0 to -30 in Hg -14.7 to 72.5 PSI	(1) NPN/PNP with Analog	Air, Non-corrosive Gas	65	Variable, 100% F.S.*	Push Button	LED (Red)
	SPCSD	-14.7 to 250 PSI 0 to 1000 PSI 0 to 3000 PSI 0 to 5000 PSI 0 to 9000 PSI	(1 or 2) PNP Analog option	Non-Corrosive to 316L SUS	67	Variable, 100% F.S.*	Push Button	LED (Red)

Cables and panel mounting kits are available for Parker pressure sensors.
*F.S.: Full scale

Vacuum Products Vacuum Generators












Vacuum Generators

	Series	Vacuum Flow Rate (SCFM)	Description
	MCA	0.21-1.26	Lightweight Venturi Generator for inline mounting. Can be located directly on the cup fitting for space savings. Ideal for use with TYS level compensators.
	CV	0.21-12.36	Venturi Generator for inline mounting, precision manufactured for long life. Aluminum basic body includes exhaust muffler. Stainless steel and Teflon options are available for adverse environments.
	CV-CK	0.21-5.83	Venturi Generator with adjustable open contact mechanical switch for vacuum confirmation. Ideal for low cost vacuum confirmation.
	CV-VR	2.22	Venturi Generator for inline mounting with an automatic blow-off function. Built-in reservoir that automatically creates blow-off pressure when compressed air flow to the unit is stopped. Eliminates the need for a second Pneumatic Control Valve.
	HF	22-91	Multistage vacuum generator. Light weight for end of arm applications with a space saving low profile design. Standard integrated flow thru exhaust muffler.
	CHF	12.5-31.8	Multistage vacuum generator. Intended for high flow vacuum applications. These units are ideal for porous applications. 4 bolt mounting pattern with gauge opposite of vacuum and pressure inlet ports enable this generator to be panel mounted.
	MC2	0.2-0.71	Compact light weight 20 mm wide Venturi Generator with integrated components. Great for high speed automation processes. Integrated components include valves for vacuum and blow-off functions, blow-off flow regulating valve, exhaust and vacuum filters.
	MC3	0.19-0.53	Sub-compact 10 mm wide integrated Venturi Generator for high speed pick-and-place applications. Integrated components include valves for vacuum and blow-off functions, exhaust and vacuum filters. Additional Pneumatic valves are not required to create vacuum and blow-off functions.
	CVR2	0.56-1.27	Higher flow rate than the MC2. Integrated components include valves for vacuum and blow-off functions, blow-off flow regulating valve, exhaust, vacuum filters and a vacuum check valve. Optional pressure sensors reduce cycle time.
	CVK	2.1-5.75	Venturi Generator is for higher vacuum flow rates than allowed by the CVR2. Can be used for high-speed pick-and-place and material handling systems. Integrated components include valves for vacuum and blow-off functions, blow-off flow regulating valve, exhaust, vacuum filters and a vacuum check valve.
	CVX-0260B	5.75	Venturi Generator is a basic 2 station CVK generator manifold with the addition of Emergency Stop functions that maintain the last state-of-air during an emergency stop or power loss. No additional PLC programming is required for Air Economizing functions because this function is built into the electrical unit. DeviceNet® and M12 discrete wiring is available.
	CEK	2.51-5.75	Venturi Generator is a basic CVK generator with the addition of a memory valve that maintains the last state-of-air during an emergency stop or power loss. Integrated components include valves for vacuum, air economizing, and blow-off functions, blow-off flow regulating valve, exhaust, vacuum filters and a vacuum check valve.



A full range of pressure sensors, filters, silencers, fittings and tubing are available from Parker for use with vacuum generators.

Vacuum Cups

	Series	Diameter	Description
	PFG Flat Cup	1-200 mm	Precision molded single lip flat cup for smooth or slightly curved surfaces. Low profile design makes flat pads ideal for fast response.
	P5V-CFS Flat Cup	50-300 mm	Precision molded double lip flat cup for slightly curved surfaces. Double lip for additional security. If outside lip bends and loses its seal, the inner lip remains sealed. Outer ribs prevent the cup lip from being cut.
	PBG Bellows Cup	10-150 mm	Versatile bellows cup design provides a flexible sealing lip for products with irregular, smooth or curved surfaces and flexible products.
	PJG Short Bellows Thin Lip Cup	2-80 mm	Versatile bellows cup design provides a thin flexible sealing lip for products with irregular, smooth or curved surfaces, and slightly flexible products. Shorter stroke provides fast response.
	PCG Multiple Bellows Cup	5-90 mm	Versatile bellows cup design provides a flexible sealing lip for products with irregular, smooth or curved surfaces. 2½ bellows design minimizes contact pressure applied to products.
	PKG Automotive Cup	40-110 mm	Versatile cup design with grooves extending to the outer diameter to maximize holding strength and different profiles for flexible products with smooth, oily surfaces.
	PUGB Flat Swivel Cup	10-200 mm	30° swivel single lip flat cups for smooth surfaces, slightly curved surfaces and flexible products. Rigid stem or level compensator provides good stability for horizontal lift.
	PFOG Grooved Cup	20-40 mm	Anti-slip flat cup with grooves extending to the outer diameter to increase vacuum flow area. Increased friction resists slippage of product during transfer.
	PCD Ring Cup	28-50 mm	Some of the more popular pads for the CD/DVD industry. High temperature and soft durometer make these pads gentle and durable.
	PDG Sponge Cup	4-15 mm	Sponge cup for work pieces having irregular or uneven surfaces. The 20-durometer sponge material conforms to the product allowing the desired vacuum level to be achieved.
	PAG Thin Lip Cup	10-50 mm	These cups have an ultra thin edge that creates the vacuum seal by conforming the shape of the product. The complete foot pattern to the center of the cup prevents the vacuum from deforming or “puckering” thin, flexible products.

Most cups listed above are available as assemblies and with spring stem sets.

Air Preparation Units

Filters, Regulators & Lubricators



Parker FRLs offer rugged performance and dependable service in a wide variety of sizes and flows. Available with polycarbonate or metal bowls. Operating pressures to 250 PSIG. Modular accessories are available for most sizes.

Series Prep-Air II	14	05	06	07	P3N	PF/PL	09	Main Line
Basic body size	1/8"	1/4"	3/8"	1/2"	1"	1 1/4", 1 1/2"	2"	-
Port size(s)	1/8", 1/4"	1/4", 3/8"	1/4", 3/8", 1/2"	3/8", 1/2", 3/4"	3/4", 1", 1 1/2"	1, 1 1/4", 1 1/2"	2"	1 1/2"-3"
Maximum flow (SCFM):								
filters ¹	24	70	85	145	310	380	1000	-
Coalescing filters ¹	20	30	65	80	150	-	-	1000
Regulators ²	15	40	75	90	300	1000	-	-
Pilot controlled regulators ²	-	50	95	140	350	-	-	-
Precision regulators ³	-	25	40	-	-	-	-	-
Filter/regulators ²	18	40	61	90	250	-	-	-
Coalescing filter/regulators ³	-	-	-	45	-	-	-	-
Micro-mist lubricators ¹	13	40	90	90	-	-	-	-
Mist lubricators ¹	-	-	90	90	260	525	1000	-
Filter/precision regulators	-	20	-	-	-	-	-	-

1) At 90 PSIG with 5 PSIG pressure drop

2) At 100 PSIG inlet, 90 PSIG secondary and 10 PSIG pressure drop

3) At 150 PSIG inlet, 90 PSIG secondary and 5 PSIG pressure drop

Modular Accessories

Lockout Valves provide positive shutoff and exhaust capacity for system service or maintenance. The center position features a soft start function for smooth start-up.

Body Connectors allow easy assembly of modular FRLs. Body connector sets feature special molded seals, eliminating o-ring fall-out during assembly and disassembly.

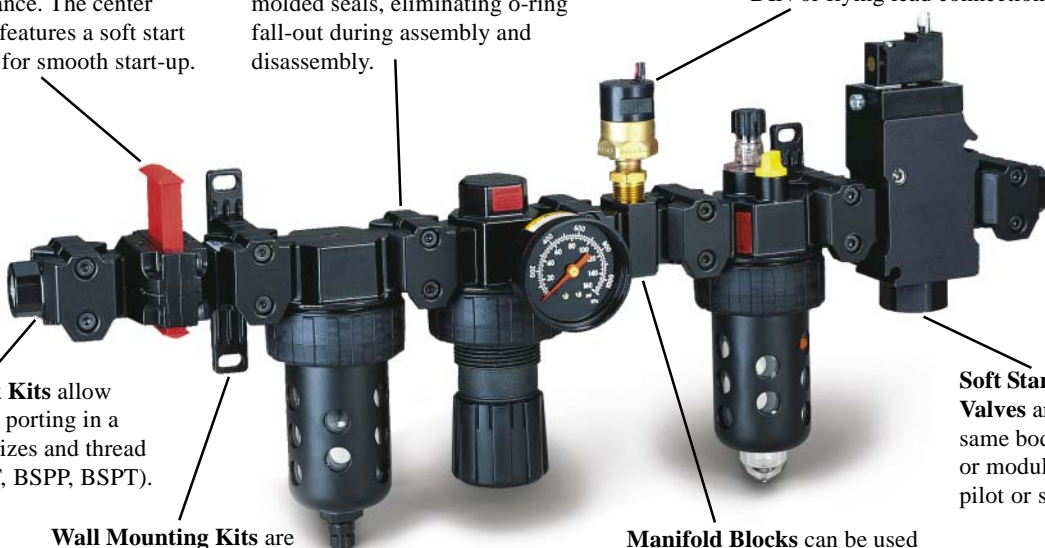
Pressure Switches give an electrical output when pressure in a pneumatic system either drops below or exceeds the set pressure. Available in either DIN or flying lead connections.

Port Block Kits allow for flexible porting in a variety of sizes and thread types (NPT, BSPP, BSPT).

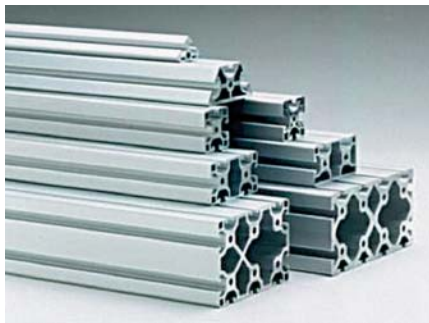
Wall Mounting Kits are available for mounting modular assemblies to a surface.

Manifold Blocks can be used between any two modular components to provide two additional outlet ports.

Soft Start and Quick Dump Valves are combined in the same body. Available as inline or modular mounted and air pilot or solenoid operated.



Modular Solutions to Fit Your Needs



Parker Industrial Profile Systems (IPS) structural automation products offer unique benefits over traditional methods of structural fabrication. All systems and assemblies are pre-engineered to customer requirements, yet offer extreme flexibility as needs change. Profiles and accessories are available in metric or inch-based designs.

Benefits

- Extremely short turnaround time from design to completion
- No welding, grinding, cleaning, painting or distortions
- Lower cost through the elimination of costly traditional manufacturing processes
- Flexibility to reconfigure as requirements change

Profiles

Parker Industrial Profile Systems has one of the most comprehensive product offerings in the industry.

- More than 130 individual high-strength aluminum profiles
- Metric- and inch-based profiles and accessories
- Metric sizes range from 20 mm to 160 mm
- Inch sizes range from 1" to 6"
- Extensive range of smooth, grooveless profiles
- Provide attractive and robust structures

Linear Motion

- Roller bearing systems
- Extrusion-based linear actuators
- Delrin and UHMW slide bearings

Fasteners and Accessories

- Unique T-slot design for reliable connection and easy modification
- Metric and Inch-based hardware available
- Complete line of accessories



Typical Applications

- Enclosures and guarding
- Machine bases and frames
- Work stations and tables
- Material handling systems



www.parker.com/pneu/ips

Push-To-Connect Fittings and Cartridges



Push-to-Connect fittings are designed for low pressure applications where fast assembly, disassembly and reassembly is important. Use with various types of thermoplastic tubing. Male pipe threads come standard with white acrylic sealant. Cartridges eliminate the space and labor required to install and assemble a conventional pipe thread connection.

- 1/8"-1/2"
- Brass and composite bodies
- Compact size
- Full flow

Compression Fittings



Economical compression fittings are available in a broad range of configurations and sizes. No flaring, soldering or other preparation of tubing is necessary. Compress-Align, Metru-Lok and Poly-Tite offer captive visible sleeve. Quick disconnects in chrome plated brass and stainless steel are available in Poly-Tite.

- 1/8"-1"
- Inch and metric tubing
- Captive sleeve
- Use with copper, aluminum and thermoplastic tubing

Barbed Fittings



Barbed fittings are available for both thermoplastic tubing and rubber hose. Fittings for rubber hose are intended for use with a 97HC hose clamp, similar type clamp or a crimped ferrule. Dual-barb fittings are designed for use with polyethylene tubing without the use of a clamp.

- One piece
- Economical
- Use with tubing and hose

Pipe Fittings



- Forgings and extrusions
- Threads made to Dryseal standards
- Use with brass, copper or iron pipe
- Low to medium pressure
- Metric adapters available

For a complete review of Parker Brass Fittings and Valve Products, please reference Catalog 3501-E/US.

www.parker.com/brassprod



37° Flare Fittings

- Metal to metal seal for wide temperature range application
- Adaptable to inch and metric tube and hose assemblies
- Offered with SAE, NPT, ISO 6149, BSPP, BSPT and metric port ends
- Meets SAE J514 and ISO 8434-2
- Sizes range from 1/8" through 2" in steel, brass and stainless steel



Pipe Fittings and Adapters

- Metric and BSP conversion adapters
- SAE straight thread fittings and adapters
- NPT fittings and adapters
- Sizes range from 1/8" through 2" in steel, brass and stainless steel



24° Flareless Brass Fittings

- Designed for copper and plastic tube systems
- Captive ferrule bites the outer surface with sufficient strength to hold the tube against pressure
- Offered with NPT port ends
- Sizes range from 1/8" through 1/2" in brass



24° Flareless Bite Type Fittings

- Metal to metal seal for wide temperature range application
- Suitable for use with inch tube in wall thickness from medium to heavy
- For use with steel, stainless steel and plastic tube
- Offered with SAE and NPT port ends
- Meets SAE J514
- Sizes range from 1/8" through 2" in steel and stainless steel



Metric 24° Flareless Fittings

- Three pressure ranges for optimum compactness
- For use with metric tube and hose assemblies
- For use with steel, stainless steel and plastic tube
- Offered with SAE and NPT, ISO 6149, BSPP, BSPT, metric parallel and tapered port ends
- Meets DIN 2353 and ISO 8434-1
- Sizes range from 4 mm through 42 mm in steel, brass and stainless steel

For a complete review of Parker Industrial Tube Fittings, Adapters and Equipment Products, please reference Catalog 4300/US.

www.parker.com/tfd

Fittings, Tubing & Hose Thermoplastic Products

Tubing and Thermoplastic Hose



Recommended Fittings

TrueSeal™
Fast & Tite
Compression
Compress-Align
Poly-Tite
Dubi-Barb
ParBarb
Prestolok/Prestolok II
Prestomatic (SAE)
Presto
Microlok
Metru-Lok
DAT
Fast-Stor®
Flow Control Valves

Material	O.D. Range (inches)	O.D. Range (mm)	TrueSeal™	Fast & Tite	Compression	Compress-Align	Poly-Tite	Dubi-Barb	ParBarb	Prestolok/Prestolok II	Prestomatic (SAE)	Presto	Microlok	Metru-Lok	DAT	Fast-Stor®	Flow Control Valves
Polyethylene	1/4-5/8	6 mm-12 mm	X	X	X	X	X	X	-	X	X	X	X	-	-	-	X
Flame Resistant Polyethylene	5/32-1/2	-	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-
High Density Polyethylene	1/4, 3/8	-	X	X	X	X	X	X	-	X	X	X	X	-	-	-	X
Flexible Nylon	1/8-1/2	4 mm-20 mm	X	X	X	X	-	-	-	X	X	X	X	-	-	-	X
Pure Air	1/8-3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Semi-rigid Nylon	1/8-1/2	-	X	X	-	X	-	-	-	-	-	-	-	-	-	-	-
Polypropylene	1/8-5/8	-	X	X	X	X	X	-	-	-	-	-	-	-	-	-	-
Low Durometer Polyurethane	1/8-5/16	-	-	-	-	-	-	-	X	-	-	-	X	-	-	-	-
Med. Durometer Polyurethane	1/8-3/4	4 mm-12 mm	X	X	-	-	-	-	X	X	-	-	X	-	-	X	-
High Durometer Polyurethane	1/8-3/4	4 mm-12 mm	X	X	-	-	-	-	X	-	-	X	-	-	-	-	-
Clear Vinyl	1/8-2 1/2	-	-	X	X	X	X	-	X	-	-	-	-	-	-	-	-
Fluoropolymer PTFE	1/16-3/4	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoropolymer FEP	1/8-5/8	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-
Fluoropolymer PFA	1/8-1	-	X	X	-	-	-	-	-	-	-	-	-	-	-	-	-

Hose



Recommended Fittings

Fast-Stor
Fast-Stor NoMar

Hose Type	I.D. Range (inches)	Max. Working Pressure (PSI)	Fast-Stor	Fast-Stor NoMar
Fast-Stor® Nylon Hose	3/16-1/2	170	X	-
Fast-Stor® NoMar™ Urethane Hose	3/16-3/4	125	-	X

For a complete review of Parker Thermoplastic Hose, Tubing, Fittings and Accessory Products, please reference Catalog 4660/US.

www.parker.com/parflex



Rubber Hose and Fittings



The Parker Push-Lok system is easy to use. No clamps or special tools are required during installation. And with Parker's exclusive color-code system, you can inventory, maintain and identify your hose needs easily and efficiently. Parker Push-Lok assemblies can be made in seconds, saving valuable time and money. Its unique seal ensures reliability and

durability for clean-environment use. Premium products and leak-free solutions are what you'll get with every Parker Push-Lok hose and fitting system. With the most complete line of high-quality, low-pressure hose and fittings, Push-Lok is the answer to all your pneumatic needs.

Parker Push-Lok Hose

Hose	I.D. Range (inches)	Working Pressure	Temperature Ranges			Color Availability							
			Petroleum	Water	Air	GRA	RED	YEL	BLU	GRN	BLK	BRN	WHT
801	1/4" to 1"	250	-40°F to +212°F	Up to +185°F	-40°F to +158°F	x	x	x	x	x	x	-	-
831	1/4" to 3/4"	300-350	-40°F to +212°F	Up to +185°F	-40°F to +158°F	-	x	-	x	x	x	-	-
821	1/4" to 3/4"	250-350	-40°F to +212°F	Up to +185°F	-40°F to +158°F	-	-	-	-	-	x	-	-
821FR	1 1/4" to 3/4"	250-350	-40°F to +212°F	Up to +185°F	-40°F to +158°F	-	-	-	x	x	x	x	x
836	1/4" to 5/8"	250	-55°F to +302°F	Up to +185°F	-40°F to +158°F	-	-	-	x	-	-	-	-

Note: Push-Lok hose is recommended for vacuum applications but not for cooling lines in air conditioners and heat pumps, nor for hydraulic applications where extreme pulsations are encountered. Push-Lok is not recommended for any fuel.

Consult the Hose Products Division Catalog 4400/US before use of product.

Parker Push-Lok Fittings 82 Series



All Parker Push-Lok hose can be easily attached to Parker's line of low pressure 82 Series Push-Lok fittings, which are available in brass, steel, and stainless steel. Parker's patented Push-Lok fitting features rapid and easy assembly combined with tight, positive sealing. The reliable, barbed

design allows simple "push on" attachment and requires absolutely no exterior hose clamps. A complete line of 82 Series Push-Lok fittings is available, including pipe, JIC, SAE, Seal-Lok®, unions, metrics and quick-disconnect style products.

For a complete review of Parker Hose, Fittings, Accessories and Equipment Products, please reference Catalog 4400/US.

www.parkerhose.com

Fittings, Tubing & Hose Quick Couplings

Quick Couplings

Single shut-off couplings are primarily used for pneumatic applications, connecting air tools, hoses or other implements to compressed air supplies. They are also used with other gases and except for E-z-Mate, can be used with low pressure fluids. The coupler half contains a shut-off valve that is automatically opened when a mating nipple is inserted and automatically closed when the nipple is removed. Ethylene propylene, fluorocarbon and neoprene seals are available as options. Also offered are controlled pressure, full pressure pistol and grip style blow guns.



General Purpose

Series	Coupler Style	Interchange	Body Size (in.)	Material Br SS S*	Locking Mechanism	Std. Seal Material	Temp Range**	Rated Pressure
10 Series	Manual	Tru-Flate	¼ to ½	x x x	Ball	Buna-N (Nitrile)	-40° to 250°F	300 PSI
20 Series	Manual	Industrial	¼ to ½	x x x	Ball	Buna-N (Nitrile)	-40° to 250°F	300 PSI
RF Series	PTC*	RF	¼	x - x	Ball	Buna-N (Nitrile)	-40° to 250°F	300 PSI
HF Series	PTC*	Industrial	⅛	x - x	Ball	Buna-N (Nitrile)	-40° to 250°F	300 PSI
HA Series	PTC*	ARO 210	½	x - -	Ball	Buna-N (Nitrile)	-40° to 250°F	300 PSI
UC Series	PTC*	Industrial Tru-Flate ARO 210	¼	x - -	Ball	Buna-N (Nitrile)	-40° to 250°F	150 PSI



E-z-mate

Tool-mate

Special Purpose

Series	Coupler Style	Interchange	Body Size (in.)	Material S*P	Locking Mechanism	Std. Seal Material	Temp Range**	Rated Pressure
E-z-mate	Exhaust PTC†	Industrial	¼ to ¾	x	Ball	Buna-N (Nitrile)	-40°F to +250°F	300 PSI
Tool-mate	Exhaust & Std PTC†	Industrial Cejn320 Rectus25	¼ to ½	x	Fingers	Buna-N (Nitrile)	-40° to +250°F	300 PSI

Code: SS = Stainless Steel, S = Steel, P = Plastic

* Steel parts are zinc plated with yellow chromate coating for extra corrosion resistance.

** Standard seals

† Push-to-Connect

For a complete review of Parker Quick Coupling Products, please reference Catalog 3800/US.

www.parker.com/quickcouplings



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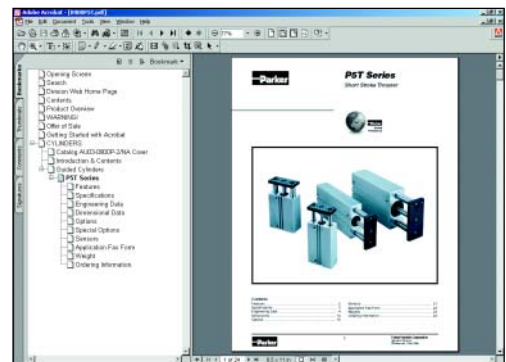
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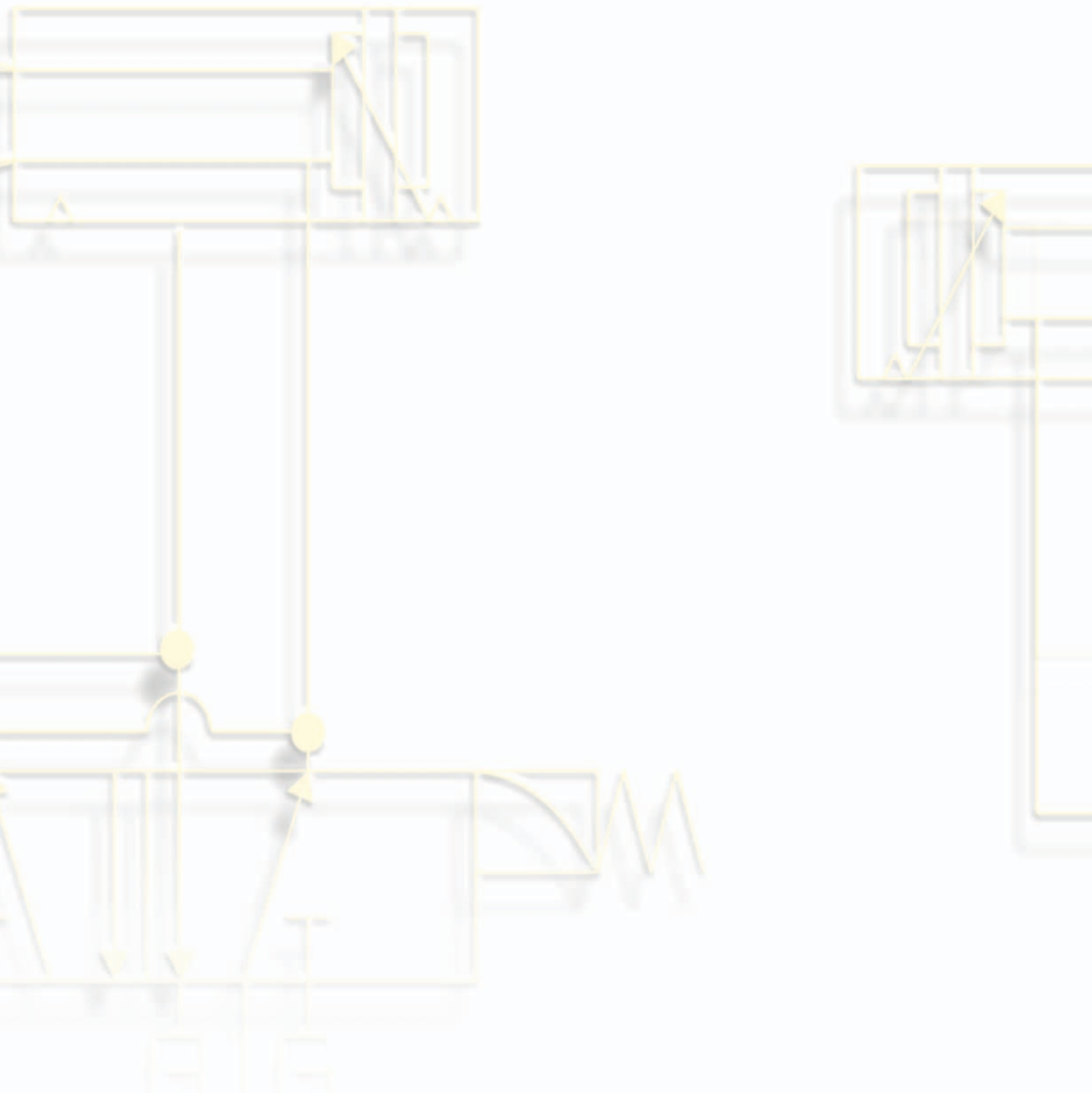
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