



QUICK REFERENCE GUIDE
**Low Pressure Instrumentation
Brass Fittings & Valves**

Bulletin 3531-QRG / USA



SPECIALS

If you need a custom brass fitting, valve or manifold, we can design and manufacture it for your specific application. In exactly the configuration you want. And supply any quantity -- from a single part for a prototype to a large production run -- in an exceptionally short time frame.

Every part is manufactured on the most current CNC equipment available. So each piece will meet or exceed your most exacting tolerances. And all are guaranteed to comply with the applicable standards, including SAE, ISO, DIN, JIS, ASTM and MIL-Spec.

In most cases, we can provide a price quote and shipping date when you call, and supply approval designs within 48 hours after receiving your CAD files.



ISO Port Adapters

A comprehensive range of ISO port adapters for various sizes of metric threads and end configurations.

Working Pressure
Dependent on tubing or hole end connection.

Temperature Range
-65° to +250°F



Miniature Flow Controls

Miniature right angle flow controls with push-in connection. Available in both control knob and knobless styles.

Working Pressure
To 135 PSI

Temperature Range
+30° to +150°F



SAE Cartridges

Designed for both soft metal and plastic cavity applications. SAE cartridges are thoroughly tested to meet or exceed the performance requirements of DOT FMVSS 571.106, SAE J1131 and the proposed dimensional standard SAE J2494-4 in 6061-T6 aluminum.

Working Pressure
Vacuum to 250 PSI

Temperature Rating
-40° to +200°F



CARTRIDGES, FITTINGS, MANIFOLDS

Presto® Manifolds

Manifolds provide multiple tube junction connections in truck air applications. Lightweight polyacetal body meets D.O.T. FMVSS 571.106 performance specifications. Please consult factory for custom designs.

Working Pressure
27in. Hg vacuum to 250 PSI

Temperature Range
-40° to +200°F

Inlet Ports
3/8" tube O.D.

Outlet Ports
1/4" tube O.D.



DAT Fittings

Designed to work with Parker's PAT nylon tubing in pure air and gas distribution systems. Symmetrical design of sleeve ensures that it cannot be improperly assembled on the tubing.

Working Pressure
To 150 PSI

Temperature Range
-40° to +200°F



Prestolok® Fittings

One piece brass fittings for use with polyethylene, nylon or soft metal tubing, and polyurethane tubing with an internal tube support.

Working Pressure
Vacuum to 300 PSI
(tubing and temperature dependent)

Temperature Range
0° to +200°F



Prestolok II® Fittings

Compact one-piece fittings with an engineered plastic body and brass components. For use with nylon, polyethylene and polyurethane tubing.

Working Pressure
Vacuum to 150 PSI
(tubing and temperature dependent)

Temperature Range
0° to +150°F

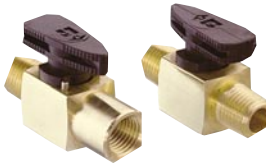


Plug Valves

Compact brass valve with internal nitrile seals and 1/4-turn, one-piece stem/handle. All valves are 100% leak tested and certified leakfree to one SCCM.

Working Pressure
to 250 PSI

Temperature Range
-40° to +175°F



INSTRUMENTATION PRODUCTS

Pipe Fittings

Brass fittings meeting all functional SAE J512 industry requirements, with all threads made to Dryseal standards. For use with brass, copper or iron pipe.

Working Pressure
to 1000 PSI

Temperature Range
-65° to +250°F



Microlok® Fittings

Compact, one-piece push-on fittings for quick, economical connections with polyethylene, polyurethane and nylon tubing.

Working Pressure
to 150 PSI

Temperature Range
0° to +150°F



Integrated Valves

Right angle and in-line flow controls, blocking valves and slow start valves.

Working Pressure
to 145 PSI

Temperature Range
+5° to +150°F



Dubl-Barb® Fittings

Compact, one-piece push-on barbed fittings for quick, economical connections with high-quality polyethylene tubing.

Working Pressure
to 145 PSI

Temperature Range
+5° to +150°F



Poly-Tite® Fittings

Compact brass compression fittings with exclusive sleeve that grips plastic tubing even when system pressure exceeds tubing bursting point. For use with high-quality thermoplastic and soft metal tubing.

Working Pressure
to 150 PSI (thermoplastic)
to 300 PSI (soft metal)

Temperature Range
0° to +150°F (thermoplastic)
0° to +175°F (soft metal)



Euro Brass Fittings

A complete selection of brass adapters, pre-assembled compression fittings, pneumatic integrated fittings, and brass and plastic Prestolok fittings in metric sizes for threaded pipe and tubing. Working pressures and temperature ranges are dependent upon the fittings, and type and size of tubing. For complete information refer to Catalog 3550 USA.



ACCESSORIES

Pneu-Cab Mobile Fittings Cabinet

The Parker Pneu-Cab Fittings Cabinet is a mobile inventory and workstation in one unit - a true productivity center. It is designed for maximum storage flexibility, with a labeling system for fast part identification, and it's easy to restock. Plus, the large, heavy-duty casters make it easy to move wherever you need it - saving time.



Bins

Parker Bin Compartments have open hole storage bins for easy visual identification and retrieval. In addition, Parker Brass offers a range of stackable unit cabinets with slide out drawers and dividers to create compact, expandable point-of-purchase displays. Self-adhesive bin labels are available for identifying Parker fittings and valves. The general line set includes all product lines. Individual product line labels are also available. Custom Bin Labels are available in Catalog 3501CD.

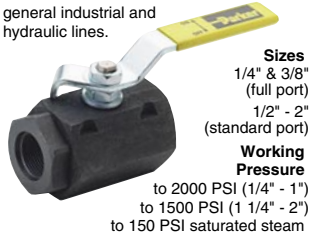


Tools & Tube Fabricating Equipment

Parker offers a complete range of tools and equipment including, Tube Cutters, Tube Benders, 45° Flaring Tools, Tubing Tool Kits containing combinations of tools to cut, flare, and/or ream tube end connections, Swaging Tools, Par-Lok® Wrenches with drop-forged, high carbon steel jaws and a black conversion coat finish, and Tube Fabricating Equipment including Pinch Off Tool, In-Ex® Tube Deburring Tool, Tru-Kut® Sawing Vise, and Multi-Flame Torch. Copper tubing is available in 50-foot coiled rolls in 1/4" & 3/8" (.032 Wall) and 1/2" & 3/8" (.049 Wall) sizes.

Carbon Steel Ball Valve Series 500CS/502CS

High-quality carbon steel valves with corrosion-resistant coating for reliable, economical shutoff on general industrial and hydraulic lines.



Sizes
1/4" & 3/8"
(full port)
1/2" - 2"
(standard port)

Working Pressure
to 2000 PSI (1/4" - 1")
to 1500 PSI (1 1/4" - 2")
to 150 PSI saturated steam

Temperature Range -50° to +450°F

Stainless Steel Ball Valve Series 502SS

Valves are manufactured from CF-8M stainless steel, the cast equivalent of 316 stainless steel. Full flow design and reinforced PTFE seats and seals assures maximum efficiency and reliability.



Sizes 3/4" - 2"

Working Pressure
to 2000 PSI (3/4" - 1")
to 1500 PSI (1 1/4" - 2")
to 150 PSI saturated steam

Temperature Range -50° to +400°F

Brass Ball Valve Series 500P

Brass valves engineered for extended service life. Highly inert PTFE seats and seals provide resistance to chemical corrosion.



Sizes 1/4" - 2"

Working Pressure
29in. Hg Vacuum to 600 PSI (Vented, 250 PSI)
to 150 PSI saturated steam

Temperature Range 0° to +250°F

Mini Ball Valve

Economical chrome plated brass valves designed for use in confined or hard-to-reach applications. Available in two different working pressures. All Mini Ball Valves are available with optional long handles.



Sizes 1/8" - 1/2"

Working Pressure
MV200 Series -- to 200 PSI
MV608/609 Series -- to 450 PSI

Temperature Range 0° to +250°F

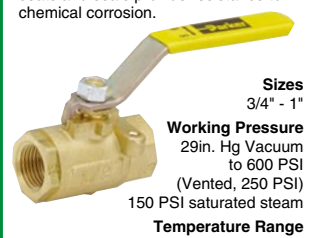
Ball Valve Handle Options

In addition to standard lever handles, most Parker Ball Valves are available with Short Lever Handles, Oval Handles, Tee Handles and Handle Covers.



Brass Ball Valve Series 508P

Full Flow Brass Valves engineered for extended service life. Highly inert PTFE seats and seals provide resistance to chemical corrosion.



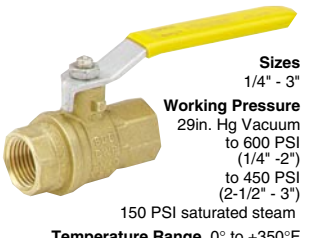
Sizes 3/4" - 1"

Working Pressure
29in. Hg Vacuum to 600 PSI (Vented, 250 PSI)
150 PSI saturated steam

Temperature Range 0° to +250°F

Economy Ball Valve Series 520P

Designed for applications that don't require frequent shutoff. Valve is full ported with a forged brass body and an o-ring stem seal.



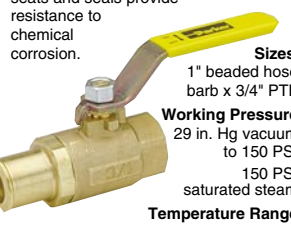
Sizes 1/4" - 3"

Working Pressure
29in. Hg Vacuum to 600 PSI (1/4" - 2")
to 450 PSI (2-1/2" - 3")
150 PSI saturated steam

Temperature Range 0° to +350°F

Brass Ball Valve Series 500HB

The hose barb end configuration eliminates a fitting and possible leak path. Optimum flow design assures maximum system efficiency, highly inert PTFE seats and seals provide resistance to chemical corrosion.



Sizes 1" beaded hose barb x 3/4" PTF

Working Pressure
29 in. Hg vacuum to 150 PSI
150 PSI saturated steam

Temperature Range 0° to +350°F

Brass Ball Valve Series 600P

Designed for applications where a fluid return or spillback is required. Full flow design assures maximum system efficiency. Viton o-rings seal between the upper and lower halves protect against cross-contamination of fluids.



Working Pressure
29 in. Hg Vacuum to 150 PSI

Temperature Range 0° to +250°F

Brass Ball Valve Series V533P

Designed for applications requiring flow diversion, this valve offers optimized flow design making tank selection and fluid transfer easy.



Sizes 1/4" - 1"

Working Pressure
To 400 PSI

Temperature Range 0° to +250°F

Panel Mount Ball Valve Series 502

Most standard female/female Parker Ball Valves are available as Panel Mount Ball Valves with the same working pressure and temperature ratings, and handle options.



Sizes
Brass -- 1/4" - 1"
Stainless Steel -- 1/4" - 2"

Male/Female Ball Valve Series 501P

High quality forged brass valves with male/ female pipe threads, highly inert PTFE seats and seals, optimum flow design, and blow-out proof stem.



Sizes 1/4" - 1"

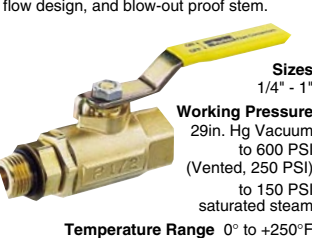
Working Pressure
29in. Hg Vacuum to 600 PSI (Vented, 250 PSI)
to 150 PSI saturated steam

Temperature Range 0° to +250°F

BALL VALVES

Male/Female Straight Thread O-Ring Ball Valve Series 510P

High quality forged brass valves with male/ female straight threads and nitrile O-ring, highly inert PTFE seats and seals, optimum flow design, and blow-out proof stem.



Sizes 1/4" - 1"

Working Pressure
29in. Hg Vacuum to 600 PSI (Vented, 250 PSI)
to 150 PSI saturated steam

Temperature Range 0° to +250°F

Female/Female Straight Thread O-Ring Ball Valve Series 506P

High quality forged brass valves with female/ female straight threads, highly inert PTFE seats and seals, optimum flow design, and blow-out proof stem.



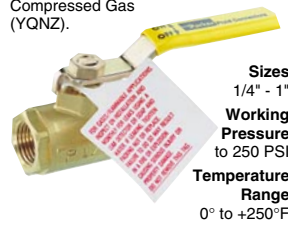
Sizes 1/4" - 1"

Working Pressure
29in. Hg Vacuum to 600 PSI (Vented, 250 PSI)
to 150 PSI saturated steam

Temperature Range 0° to +250°F

UL Ball Valve Series 500PUL

Forged brass ball valves designed for gas line service with flammable liquids (YR BX), LP gas (Y50T), and Compressed Gas (YQNZ).



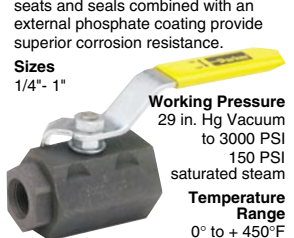
Sizes 1/4" - 1"

Working Pressure
to 250 PSI

Temperature Range 0° to +250°F

Carbon Steel Ball Valve Series 506CS

Female SAE straight thread with full flow design allows for maximum system efficiency. Highly inert PTFE seats and seals combined with an external phosphate coating provide superior corrosion resistance.



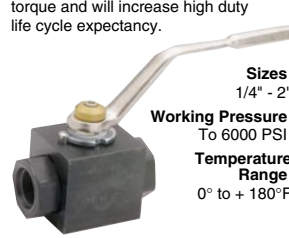
Sizes 1/4" - 1"

Working Pressure
29 in. Hg Vacuum to 3000 PSI
150 PSI saturated steam

Temperature Range 0° to +450°F

Carbon Steel Ball Valve Series 500HP/506HP/507HP

High pressure valves featuring Delrin™ seats with Molybdenum disulphide (MoS2) results in lower actuation torque and will increase high duty life cycle expectancy.



Sizes 1/4" - 2"

Working Pressure
To 6000 PSI

Temperature Range 0° to +180°F

Stainless Steel Series 501SS

Valve is manufactured from CF-8M stainless steel, the cast equivalent of 316 stainless steel, male/female pipe threads, reinforced PTFE seats and seals, optimum flow and blowout proof stem.



Sizes 1/4" - 2"

Working Pressure
To 2000 PSI (1/4" - 1")
To 1500 PSI (1-1/4" - 2")
150 PSI Saturated steam

Temperature Range 0° to +400°F

Stainless Steel Ball Valve Series 506SS

Manufactured from CF-8M stainless steel, the cast equivalent of 316 stainless steel, with female/female SAE straight threads.



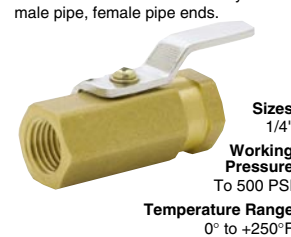
Sizes 1/4" - 2"

Working Pressure
To 2000 PSI (1/4" - 1")
To 1500 PSI (1-1/4" - 2")
150 PSI Saturated steam

Temperature Range 0° to +400°F

Brass Ball Valve Series MV708/709

Designed for use in confined or hard-to-reach areas, this miniature 2-way ball valve offers a barstock body with male pipe, female pipe ends.



Sizes 1/4"

Working Pressure
To 500 PSI

Temperature Range 0° to +250°F

Locking Handle Ball Valve

A lever handle locking option is available on most standard Parker Ball Valves. Brass ball valves also are offered with a vented option for pressure relief to meet OSHA Standard 29CFR part 1910.



Stem Extender Kit

Parker Stem Extenders can be attached easily to any standard size Parker Ball Valve. Kits are available in 1-1/4" and 2-1/4" clearances for Parker Brass Ball Valves up to 1" and Parker Stainless Steel Ball Valves up to 2". All stem extender components are made from 300 Series stainless steel.



Rotary Actuator

A reliable dual vane actuator delivering maximum torque in a small envelope size. Torque output is uniform in both directions, with zero backlash for precise positioning, and guaranteed zero external leakage. For 1/4" - 1" Parker Ball Valves in brass and stainless steel.



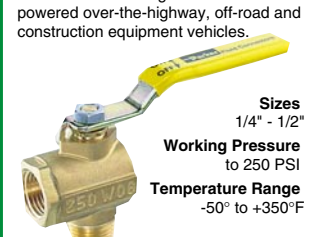
Breakaway Pressure
75 PSI minimum

Temperature Range
-40° to +180°F

Air Supply Pressure
75° to 150 PSI

90° Ball Valve Series 590/591P

Male/female and male/male right angle ball valves designed to provide reliable fuel line shut-off for gasoline and diesel powered over-the-highway, off-road and construction equipment vehicles.



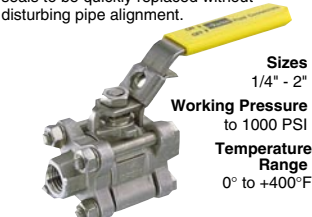
Sizes 1/4" - 1/2"

Working Pressure
to 250 PSI

Temperature Range
-50° to +350°F

3-Piece Swing Out Ball Valve Series 504SS

Parker Three-Piece, Swing-Out Stainless Steel Ball Valves allow valve seats and seals to be quickly replaced without disturbing pipe alignment.



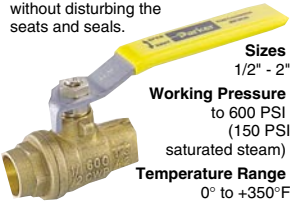
Sizes 1/4" - 2"

Working Pressure
to 1000 PSI

Temperature Range 0° to +400°F

Solder End Ball Valve Series 509P

High quality forged brass valves designed to be soft soldered into water and air service lines without disassembly. This allows installation without disturbing the seats and seals.



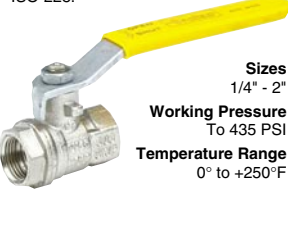
Sizes 1/2" - 2"

Working Pressure
to 600 PSI (150 PSI saturated steam)

Temperature Range 0° to +350°F

Brass Ball Valve Series BVGC

Full flow, nickel-plated valve with female BSPP short threads to ISO-228.



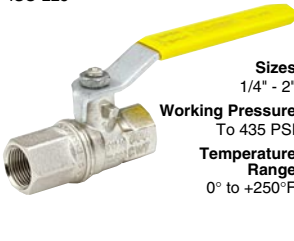
Sizes 1/4" - 2"

Working Pressure
To 435 PSI

Temperature Range 0° to +250°F

Brass Ball Valve Series BVGL

Full flow nickel-plated valve with female BSPP long threads to DIN 2999 / ISO-228



Sizes 1/4" - 2"

Working Pressure
To 435 PSI

Temperature Range 0° to +250°F

Brass Ball Valve Series BVGPLOCK

Designed to meet the requirements of European Directive D189/392/CEE relating to isolation of power supply and to meet the health and safety requirements for machines and materials in paragraphs L233-5 of the code du Travail.



Sizes 1/4" - 2"

Working Pressure
To 435 PSI

Temperature Range 0° to +250°F

Brass Ball Valve Series MVBG

Compact design of valve offers solution to applications where space limitation is a factor. Valves have female BSPP threads and PTFE seats.



Sizes 1/4" - 1/2"

Working Pressure
To 215 PSI

Temperature Range 0° to +250°F

The Parker Brass Products Catalog

The full line of Parker Brass Division products is available in the 3501-E master catalog. This soft cover catalog contains complete specifications and technical information, plus handy reference charts and tables.



How to order Parker Brass Fittings and Valves

When ordering, please state the part number of each type of fitting or valve desired and the quantity. Part numbers are constructed from letters or numbers that identify individual products by style, type of material, size and any available options.

To select fittings for specific applications, refer to the Parker fitting selector chart in Catalog 3501E. Applications of the Parker fittings and valves are the responsibility of the customer. If questions arise concerning which type or size fitting or valve to specify,

consult your Parker Brass Products Distributor, Parker Field Sales/Technical Services - Brass Products Division, or your local Parker Service Center.

Note: Refer to Parker Catalog 3501E for more detailed application information.

**Call toll-free 1-800-C PARKER
(1-800-272-7537)**

**Parker Information Center for catalogs,
literature or additional information.**



WARNING

Failure or improper selection or improper use of the products and/or systems described herein or related items can cause death, personal injury and property damage.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and

systems assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

OFFER OF SALE

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the "Offer of Sale".

Parker Fluid Connectors Regional Sales Offices & Service Centers

Your complete source for quality tube fittings, hose & hose fittings, brass fittings & valves, quick-disconnect couplings, and assembly tools, locally available from a worldwide network of authorized distributors.

Fittings & Couplings: Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS, and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon and thermoplastic.

Hose, Tubing and Bundles: Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid and custom compounds.

Worldwide Availability: Parker operates Fluid Connector manufacturing locations and sales offices throughout North America, South America, Europe, and Asia-Pacific.

For information, contact the nearest Regional Sales Office listed, or **Call toll-free 1-800-C-Parker** (1-800-272-7537).

**Cleveland Region
Sales Office**
Cleveland, OH
(216) 896-3000
(216) 896-4022 FAX

Service Center
Waterville, OH
(419) 878-7000
(419) 878-7001 FAX

**Great Lakes Region
Sales Office**
Otsego, MI
(269) 694-2550
(269) 692-6634 FAX

Service Center
Fort Wayne, IN
(260) 747-3111
(260) 747-3026 FAX

**Minneapolis Region
Sales Office**
Minneapolis, MN
(763) 513-3535
(763) 544-3418 FAX

Service Center
Lakeville, MN
(952) 469-5000
(952) 469-5729 FAX

Service Center
Hiawatha, IA
(319) 393-1221
(319) 393-1224 FAX

Service Center
Oshkosh, WI
(920) 426-8471
(920) 426-8570 FAX

**Northeast Region
Sales Office & Service Center**
Trenton, NJ
(609) 586-5151
(609) 586-3149 FAX

**Pacific Region
Sales Office & Service Center**
Portland, OR
(503) 283-1020
(503) 283-2201 FAX

Service Center
Buena Park, CA
(714) 522-8840
(714) 994-1183 FAX

**Southeast Region
Sales Office & Service Center**
Greensboro, NC
(336) 373-1761
(336) 378-0913 FAX

Service Center
Conyers, GA
(770) 929-0330
(770) 929-0230 FAX

Service Center
Mooresville, NC
(704) 664-1922
(704) 664-5296 FAX

**Southwest Region
Sales Office & Service Center**
Mansfield, TX
(817) 473-4431
(817) 473-8078 FAX

**Canada
Sales Office & Service Center**
Grimsby, ON
(905) 945-2274
(905) 945-3946 FAX
**(Contact Grimsby for other
Service Center locations.)**



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