

Catalog 4101-QRG
Revised, May 2003



**Ball Valves and
Rotary Plug Valves**



**Check Valves, Filters
and Adjustable Relief Valves**



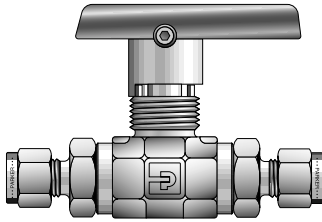
**Needle Valves,
Metering Valves, and
Sample Cylinders**



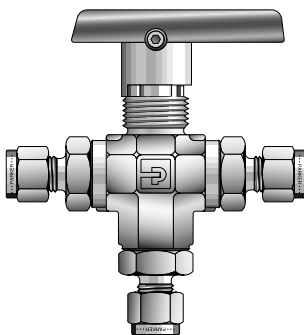
Manifold Valves

Ball and Plug Valves

B Series

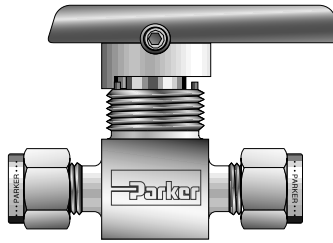


- Two-way or three-way designs
- Stainless steel, brass, alloy 400, or alloy 276 construction
- Choice of manual, pneumatic, or electric actuation
- PTFE, PCTFE or PEEK seats
- PTFE or elastomeric packing and seals
- Micro-finished free floating ball design provides seat wear compensation
- Low operating torque
- Minimum pressure drop
- Panel mountable
- Positive handle stops
- Color coded fracture resistant handles with directional flow indication
- 100% factory tested
- Options include lock-out devices and stainless steel handles



Catalog 4121-B

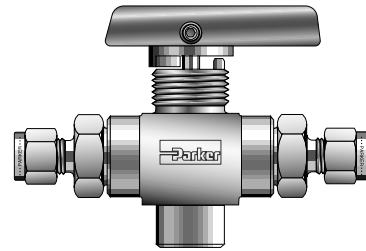
MB Series



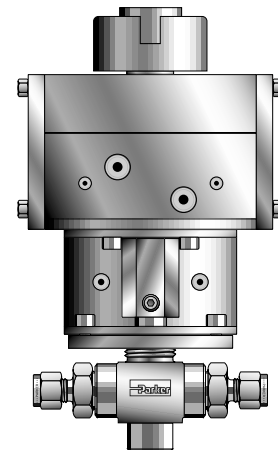
- Patented design
- One piece seat/packing design
- Pressures up to 3,000 psig (206 bar)
- Temperature capabilities of -65 °F to 300 °F (-54 °C to 177 °C)
- Two-way inline and angle designs, and three-way designs
- Stainless steel and brass construction
- Bi-directional flow
- Choice of manual, pneumatic, or electric actuation
- One piece micro-finished ball-stem design
- Low operating torque
- Minimum pressure drop
- Ease of packing adjustment
- Minimum dead space
- Panel mountable
- Positive handle stops
- Color coded fracture resistant handles with directional flow indication
- 100% factory tested
- Options include lock-out devices, upstream or downstream vent, stainless steel handles

Catalog 4121-MB

HB Series



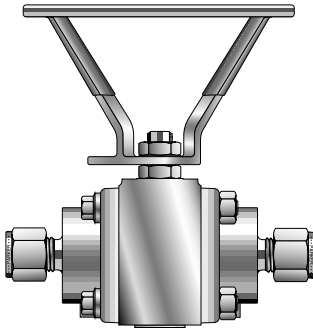
- Service to 10,000 psig (689 bar) CWP
- Two-way or three-way designs
- Stainless steel construction
- Supacase™ ball
- Blow-out resistant stem
- Spring loaded seats
- Bi-directional flow
- Choice of manual, pneumatic, or electric actuation
- PCTFE or PEEK seats
- Choice of elastomeric packing seals
- Micro-finished trunnion style ball design
- Low operating torque
- Minimum pressure drop
- Panel mountable
- Positive handle stops
- Color coded fracture resistant handles with directional flow indication
- 100% factory tested



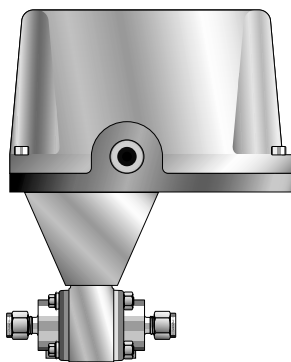
Catalog 4121-HB

Ball and Plug Valves

SWB Series

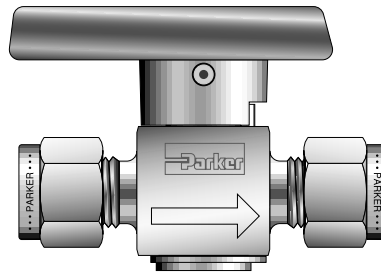


- Free floating ball design allows for seat wear compensation
- Self-compensating stem seal
- Spring-loaded seats
- Blow out resistant stem
- Fully enclosed body bolting
- Four bolt construction
- ISO-type actuator mounting design
- Pneumatic and electric actuation options
- 100% factory tested

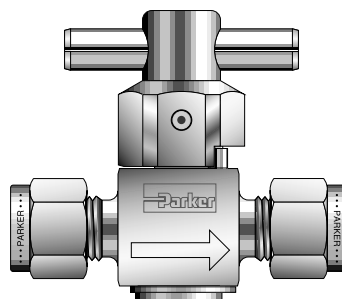


Catalog 4125-SWB

PR Series



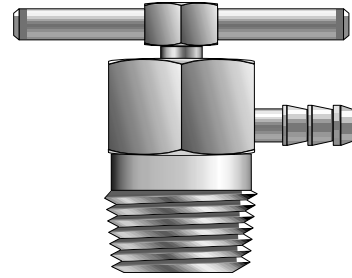
- Patented design
- Pressures up to 3,000 psig (206 bar) CWP
- Quarter-turn operation
- Reliable simple design
- Straight-through flow
- Stainless steel and brass construction
- Nitrile, ethylene propylene, or fluorocarbon rubber seals and seats
- PTFE back-up rings on atmospheric seals
- Low operating torque
- Minimum pressure drop
- Throttling capability
- Positive handle stops
- Color coded fracture resistant handles with directional flow indication
- Easy to service
- 100% factory tested
- Options include lock-out devices, downstream venting, and T-bar handles



Catalog 4126-PR

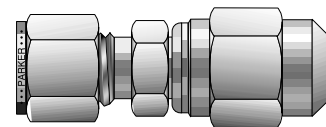
Bleed/Purge Valves

BV Series



- Available in stainless steel, carbon steel and alloy 400
- Vent tube directs excess gas or liquid from system lines
- Positive stop/vent tube design prevents accidental removal of the stem
- Compact design
- Available in a variety of end configurations including male pipe and SAE ports
- 100% factory tested
- Optional T-bar handle for wrench-less actuation

PG Series

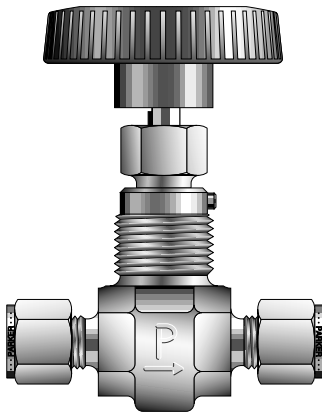


- A 0.055 inch (1.4 mm) diameter vent hole in the cap bleeds, drains, or purges system pressure
- Hex cap permits finger-tight or wrench assisted closure
- Crimped cap resists accidental disassembly
- 100% factory tested
- Optional PTFE Ball requires only finger-tight torque to achieve a leak-tight seal

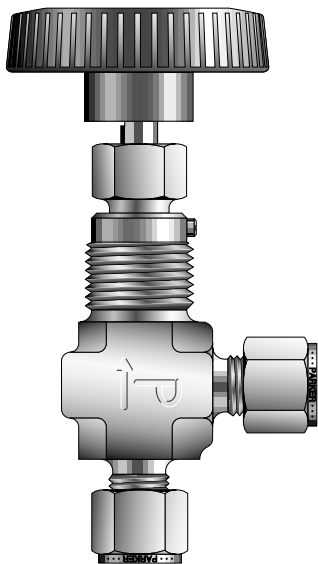
Catalog 4133-BP

Needle Valves

NP6 Series

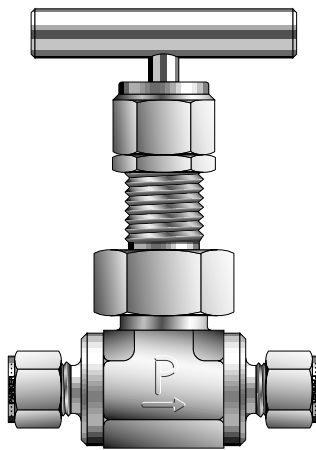


- Inline or angle pattern
- Stainless steel construction
- Pressures to 6,000 psig (413 bar) CWP
- Temperatures to 700 °F (371 °C)
- PCTFE or metal-to-metal stem types
- PTFE, elastomeric, or flexible graphite packing
- Stem dust seal
- Panel mountable
- Color coded fracture resistant handles and/or metallic T-Bar handles
- 100% factory tested

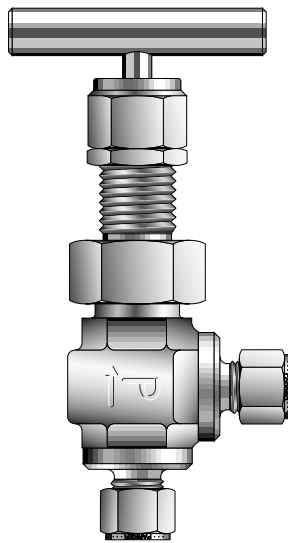


Catalog 4110-NP

U Series

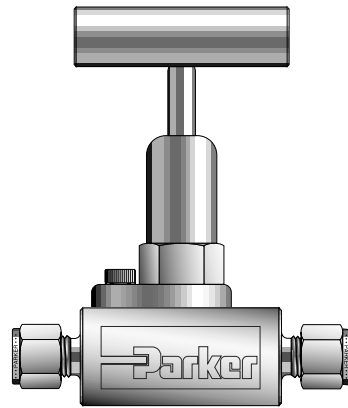


- Safe Union Bonnet construction
- Inline or angle pattern
- Stainless steel construction
- Pressures to 6,000 psig (413 bar) CWP
- Temperatures up to 1,200 °F (649 °C)
- Metal-to-metal stem types
- PTFE or flexible graphite packing
- Metallic T-Bar handles
- Stem dust seal
- Panel mountable
- 100% factory tested

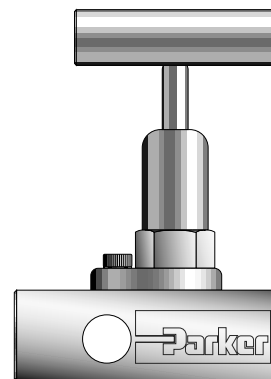


Catalog 4110-U

PV Series

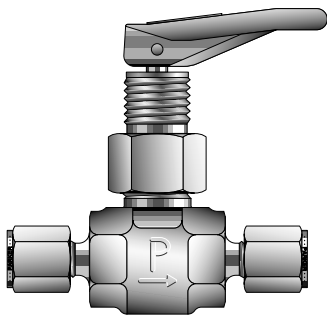


- Inline pattern
- Stainless steel construction
- Available with gauge ports
- Orifice sizes of 0.187" and 0.250"
- Pressures to 6,000 psig (413 bar) CWP
- Temperatures to 400 °F (204 °C)
- Acetal, PCTFE, PTFE and PEEK seats
- Choice of elastomeric stem seals
- Roddable
- Replaceable seat and seals
- Stainless steel T-Bar handles
- Stem dust seal
- Optional panel mount capability
- 100% factory tested

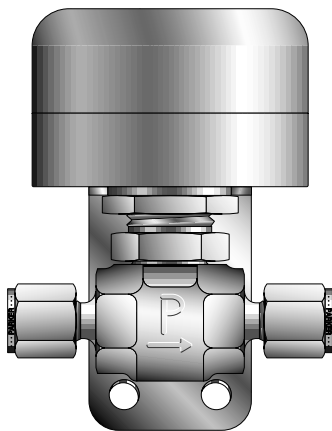


Catalog 4110-PV

VQ Series

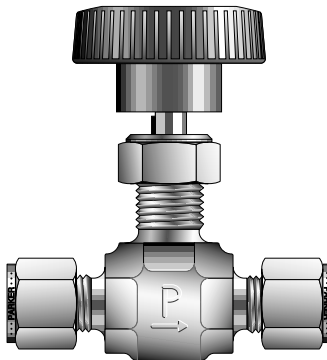


- Inline or angle pattern
- Stainless steel or brass construction
- Pressures to 600 psig (41 bar) CWP
- Temperatures to 200 °F (93 °C)
- Soft seat shut-off
- Elastomeric stem seal
- Panel mountable toggle valve
- Color coded fracture resistant handles
- Double acting, normally closed, and normally open pneumatically actuated versions
- Standard mounting bracket with pneumatic valves
- Optional handle positioner
- 100% factory tested



Catalog 4110-VQ

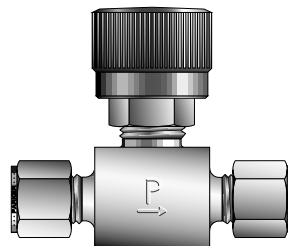
V Series



- Inline or angle pattern
- Stainless steel or brass construction
- Pressures to 5,000 psig (344 bar) CWP
- Temperatures to 450 °F (232 °C)
- PCTFE or metal-to-metal stem types
- PTFE or elastomeric packing
- Panel mountable
- 100% factory tested

Catalog 4110-V

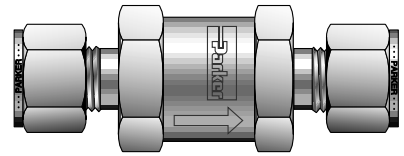
SN6 Series



- Inline or angle pattern
- Stainless steel construction
- Pressures to 6,000 psig (413 bar) CWP
- Temperatures to 700 °F (371 °C)
- PCTFE or metal-to-metal stem types
- PTFE and flexible graphite packing
- Metallic knurled and T-Bar handles
- 100% factory tested

Catalog 4110-SN

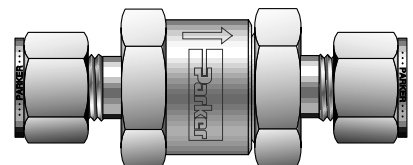
C Series



- Inline pattern
- Stainless steel or brass construction
- Pressures to 6,000 psig (413 bar) CWP
- Temperatures to 400 °F (204 °C)
- Eight cracking pressures
- Four seal materials
- Back stopped poppet
- 100% factory tested

Catalog 4130-C

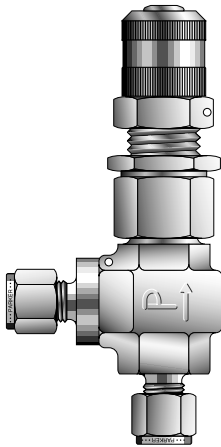
CO Series



- Inline pattern
- Stainless steel construction
- Pressures to 6,000 psig (413 bar) CWP
- Temperatures to 400 °F (204 °C)
- Eight cracking pressures
- Four seal materials
- Back stopped poppet
- 100% factory tested

Catalog 4130-CO

RL Series



- Angle pattern
- Stainless steel construction
- Pressures to 400 psig (27 bar) CWP
- Temperatures to 40 °F (204 °C)
- Seven spring ranges
- Four seal materials
- Standard locking wire
- Optional manual override
- 100% factory tested

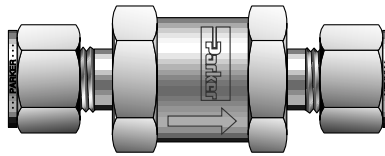
Catalog 4131-RL

RH Series

- Angle pattern
- Stainless steel construction
- Pressures to 6000 psig (413 bar) CWP
- Temperatures to 400 °F (204 °C)
- Eight spring ranges
- Five seal materials
- Standard locking wire
- Optional manual override
- 100% factory tested

Catalog 4131-RH

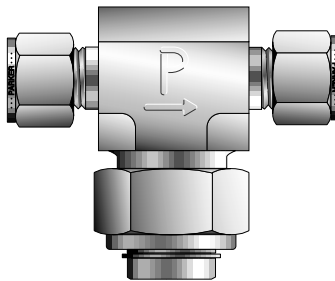
F Series



- Inline pattern
- Stainless steel or brass construction
- Pressures to 6000 psig (413 bar) CWP
- Temperatures to 400 °F (204 °C)
- Replaceable elements
- Five sintered micron elements
- Two wire cloth elements
- Four seal materials
- 100% factory tested

Catalog 4130-F

FT Series



- Tee pattern
- Stainless steel or brass construction
- Pressures to 6000 psig (413 bar) CWP
- Temperatures to 400 °F (204 °C)
- Replaceable elements
- Five sintered micron elements
- Two wire cloth elements
- Four seal materials
- Bypass option
- 100% factory tested

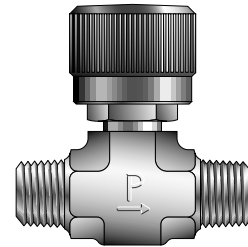
Catalog 4130-FT

Cylinders



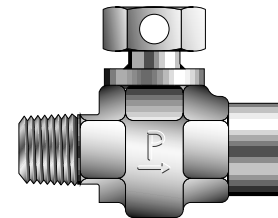
- DOT 1800 psig (124 bar) pressure rating
- Stainless steel construction
- Female NPT threads
- 100% factory tested

Miniature Valve



- Inline pattern
- Stainless steel construction
- Pressures to 5,000 psig (344 bar) CWP
- Temperatures to 450 °F (232 °C)
- PCTFE or metal-to-metal stem types
- PTFE or elastomeric packing
- Knurled aluminum handle
- 1/4 inch NPT end connections
- 100% factory tested

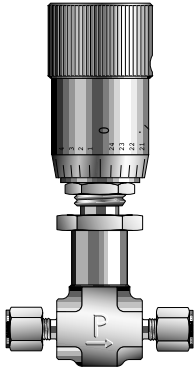
Rupture Unit



- 1,800 psig (124 bar) burst pressure
- 1/4 and 1/8 inch NPT end connections
- Replaceable rupture discs
- 100% factory tested

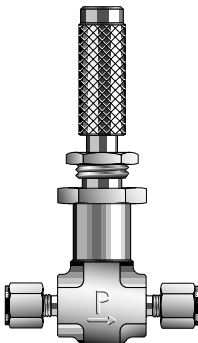
Catalog 4160-SC

NS Series



- Inline or angle pattern
- Stainless steel or brass construction
- Pressures to 2,000 psig (137 bar) CWP
- Temperatures to 400 °F (204 °C)
- 0.031 inch orifice
- 0.004 C_v
- Optional stem seal materials and knobs
- Panel mountable
- 100% factory tested

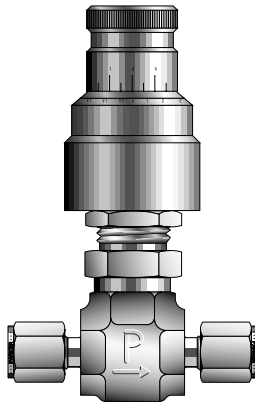
NM/NL Series



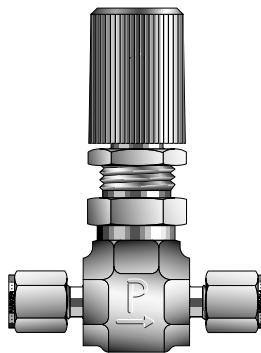
- Inline or angle pattern
- Stainless steel or brass construction
- Pressures to 1,000 psig (68 bar) CWP
- Temperatures to 400 °F (204 °C)
- 0.055 or 0.125 inch orifice
- 0.029 or 0.16 C_v
- Five optional stem seal materials
- Three optional knobs
- Panel mountable

Catalog 4170-N

HR Series



- Inline or angle pattern
- Stainless steel or brass construction
- Pressures to 250 psig (17 bar) CWP
- Temperatures to 400 °F (204 °C)
- Seven C_v ranges from 0.00034 to 0.090
- 15 turn resolution
- Bubble-tight shut-off
- Five optional stem seal materials
- Three optional knobs
- Panel mountable



Catalog 4170-HR



- Multiple patterns
- Bubble-tight shut-off
- Standard rating of 6,000 psig (413 bar)
- Temperatures up to 1,000 °F (538 °C)
- Adjustable packing with PTFE or flexible graphite packing
- PTFE, PCTFE, PEEK, acetal, or metal-to-metal stem types
- T-bar handles
- Bonnet locking pin
- Polyethylene color coded dust caps
- Heat code traceable and NACE materials of construction
- Optional special alloys
- Optional accessories
- 100% factory tested



Catalog 4190



Catalog 4101-QRG, 10M, CG, 05/03

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