

|  |      |          |
|--|------|----------|
| <b>Safety Blow Guns</b>                | 1-6  | <b>A</b> |
| <b>Ball Valves, Plug Valves</b>        | 1-6  | <b>B</b> |
| <b>Lockout Valves</b>                  | 1-6  | <b>C</b> |
| <b>Flow Controls &amp; Accessories</b> | 1-20 | <b>D</b> |
| <b>Fittings &amp; Hose</b>             | 1-12 | <b>E</b> |
| <b>Fittings &amp; Tubing</b>           | 1-70 | <b>F</b> |
| <b>Airline Accessories</b>             | 1-4  | <b>G</b> |
| <b>Quick Couplings &amp; Adapters</b>  | 1-16 | <b>H</b> |
| <b>Offer of Sale</b>                   |      |          |

# Ball Valves

1/4" to 2", 2-Way

1/4" to 1", 2-Way Vented

# Plug Valves

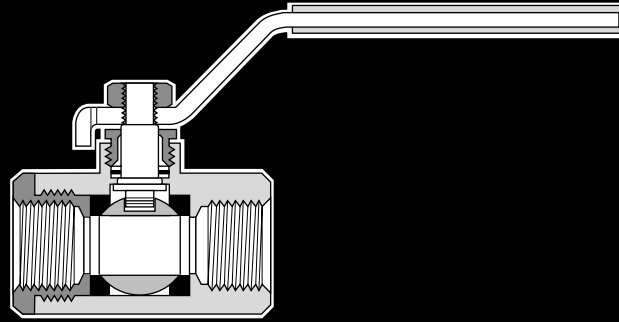
1/8" to 1/4" Pipe Size

**B**

## Section B



Ball Valve Basic Features ..... 2  
Ball Valve Part Numbers & Dimensions ..... 3-4  
Plug Valve Basic Features ..... 5  
Plug Valve Part Numbers & Dimensions ..... 6



## Brass Ball Valves Series 500

### Advantages

Parker's forged body ball valve provides extended service life and resists failure caused by severe temperature applications. Optimum flow design assures maximum system efficiency. Highly inert PTFE seats and seals provide resistance to chemical corrosion. Parker also provides a blow-out proof stem, chrome plated brass ball and a specially designed handle enabling increased turning leverage for ease of opening and closing. Parker's ball valve can be readily identified assuring high quality engineering and reliability. This economical ball valve is available in female pipe sizes. Parker's ball valve bodies are machined from high quality CA 377 forgings.

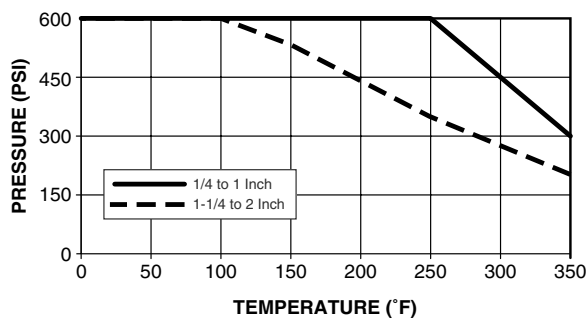
### Applications

Parker's industrial ball valve product line is intended for general purpose use. Please be aware that ball valves are intended for use in the fully open or closed positions. Depending on application conditions, throttling of the valve may result in premature seal failure and/or inability to turn the valve handle.

For use as fuel line shutoffs for gasoline and diesel powered over the highway, off highway, and construction equipment vehicles. Water and air service lines on capital equipment and plant design plumbing that require total shutoff capability.

### Working Pressure and Temperature

Saturated steam service up to 150 PSI and 400°F  
 Vacuum, 29 Inches of Mercury  
 Vented up to 250 PSI



### Operating Instructions

Quarter turn is "ON" or "OFF".  
 (Provides positive stop action for full shutoff.)

**NOTE:** PERIODICALLY CHECK THE ADJUSTABLE PACKING NUT AND TIGHTEN AS REQUIRED.

| Style    | Type   | Material | Size |
|----------|--|----------|------|
| V        | 500  | P        | - 4  |
| Style    | V – Valve<br>VP – Valve, Padlocking Handle<br>VV – Valve, Vented<br>VVP – Valve, Vented, Padlocking Handle |          |      |
| Type     | 500 – Female/Female PTF Ports  |          |      |
| Material | P – Brass  |          |      |
| Size     | 4 – 1/4"<br>6 – 3/8"<br>8 – 1/2"<br>12 – 3/4"<br>16 – 1"   |          |      |

| Style    | Type                                       | Material | Size |
|----------|--|----------|------|
| V        | 500  | P        | - 20 |
| Style    | V – Valve<br>VP – Valve, Padlocking Handle |          |      |
| Type     | 500 – Female/Female PTF Ports              |          |      |
| Material | P – Brass                                  |          |      |
| Size     | 20 – 1-1/4"<br>24 – 1-1/2"<br>32 – 2"      |          |      |

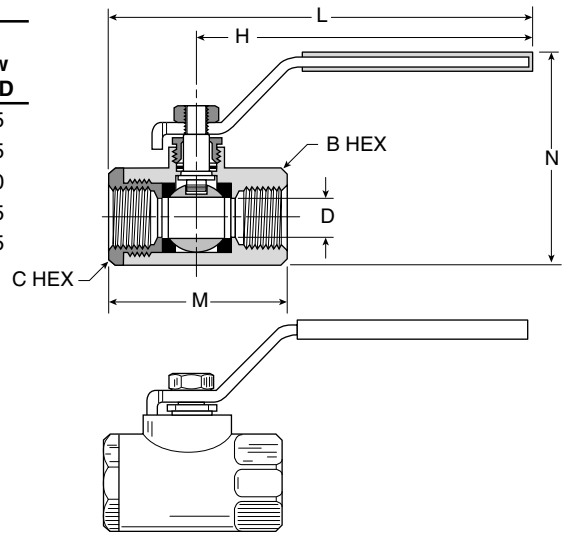
### Flow Data

| Valve Size | C <sub>v</sub> |
|------------|----------------|
| 1/4        | 4.0            |
| 3/8        | 5.8            |
| 1/2        | 12.0           |
| 3/4        | 35.0           |
| 1          | 54.0           |
| 1-1/4      | 57.0           |
| 1-1/2      | 92.0           |
| 2          | 224.0          |

**V500P Female-Female Pipe Ends**

| Part No. | Pipe Thread [PTF] | B Hex  | C Hex  | H    | L    | M    | N    | Flow Dia. D |
|----------|-------------------|--------|--------|------|------|------|------|-------------|
| V500P-4  | 1/4               | 15/16  | 15/16  | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| V500P-6  | 3/8               | 15/16  | 15/16  | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| V500P-8  | 1/2*              | 1-1/16 | 1-1/16 | 3.96 | 5.00 | 2.20 | 2.58 | .500        |
| V500P-12 | 3/4**             | 1-1/4  | 1-5/16 | 3.96 | 5.25 | 2.42 | 2.81 | .685        |
| V500P-16 | 1**               | 1-1/2  | 1-9/16 | 3.96 | 5.34 | 2.75 | 3.08 | .875        |

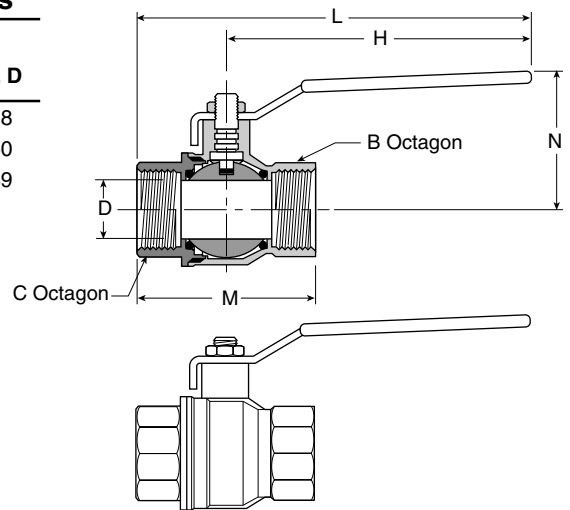
\* PTF special short  
 \*\*PTF special extra short



**B**

**V500P-20, V500P-24, V500P-32 Female-Female Pipe Ends**

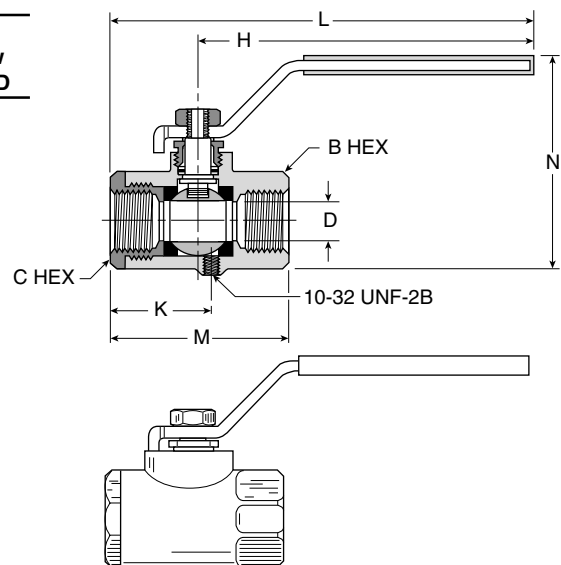
| Part No. | Pipe Thread [PTF] | Octagon | H    | L    | M    | N    | Dia. D |
|----------|-------------------|---------|------|------|------|------|--------|
| V500P-20 | 1-1/4             | 1.93    | 6.22 | 8.05 | 3.66 | 3.01 | 1.18   |
| V500P-24 | 1-1/2             | 2.13    | 6.22 | 8.23 | 4.02 | 3.25 | 1.50   |
| V500P-32 | 2                 | 2.69    | 6.22 | 8.58 | 4.76 | 3.52 | 1.89   |



**VV500P Vented, Female Pipe Ends**

| Part No.  | Pipe Thread [PTF] | B Hex  | C Hex  | K    | H    | L    | M    | N    | Flow Dia. D |
|-----------|-------------------|--------|--------|------|------|------|------|------|-------------|
| VV500P-4  | 1/4               | 15/16  | 15/16  | 1.11 | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| VV500P-6  | 3/8               | 15/16  | 15/16  | 1.11 | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| VV500P-8  | 1/2*              | 1-1/16 | 1-1/16 | 1.23 | 3.96 | 5.00 | 2.20 | 2.58 | .500        |
| VV500P-12 | 3/4**             | 1-1/4  | 1-5/16 | 1.45 | 3.96 | 5.25 | 2.42 | 2.81 | .685        |
| VV500P-16 | 1**               | 1-1/2  | 1-9/16 | 1.58 | 3.96 | 5.34 | 2.75 | 3.08 | .875        |

\* PTF special short  
 \*\*PTF special extra short



**VP500P Locking Handle, Female Pipe Ends**

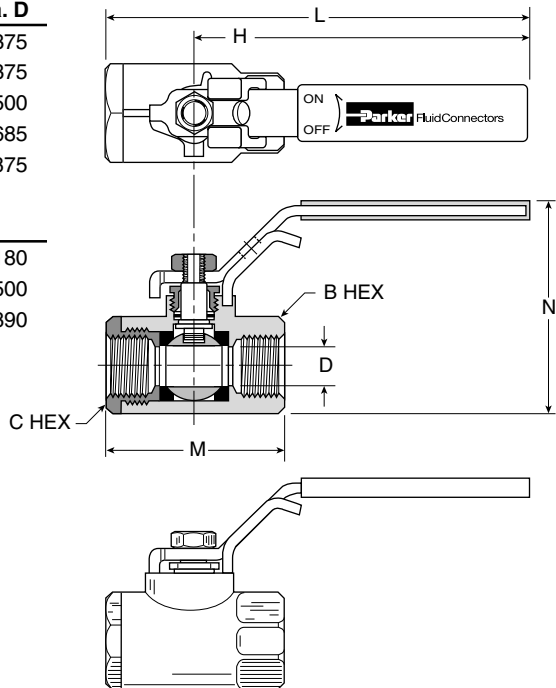
| Part No.  | Pipe Thread | B Hex  | C Hex  | H    | L    | M    | N    | Flow Dia. D |
|-----------|-------------|--------|--------|------|------|------|------|-------------|
| VP500P-4  | 1/4         | 15/16  | 15/16  | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| VP500P-6  | 3/8         | 15/16  | 15/16  | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| VP500P-8  | 1/2*        | 1-1/16 | 1-1/16 | 3.96 | 5.00 | 2.20 | 2.58 | .500        |
| VP500P-12 | 3/4**       | 1-1/4  | 1-5/16 | 3.96 | 5.25 | 2.42 | 2.81 | .685        |
| VP500P-16 | 1**         | 1-1/2  | 1-9/16 | 3.96 | 5.34 | 2.75 | 3.08 | .875        |

For use with 5/16" Dia. shank lock; .33 Dia.

|           |       |         |         |      |      |      |      |       |
|-----------|-------|---------|---------|------|------|------|------|-------|
| VP500P-20 | 1-1/4 | 1-15/16 | 1-15/16 | 6.22 | 8.05 | 3.66 | 4.04 | 1.180 |
| VP500P-24 | 1-1/2 | 2-1/8   | 2-1/8   | 6.22 | 8.23 | 4.02 | 4.52 | 1.500 |
| VP500P-32 | 2     | 2-11/16 | 2-11/16 | 6.22 | 8.60 | 4.76 | 5.07 | 1.890 |

For use with 9/32" Dia. shank lock; .31 Dia.

\* PTF special short  
 \*\*PTF special extra short

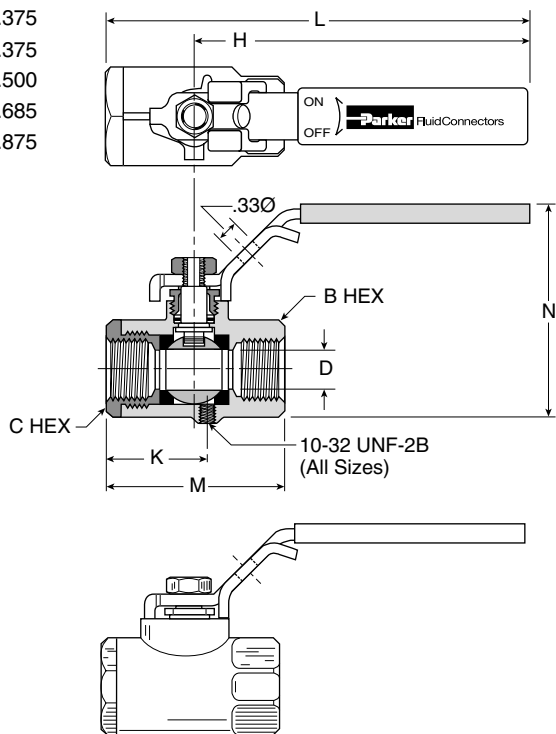


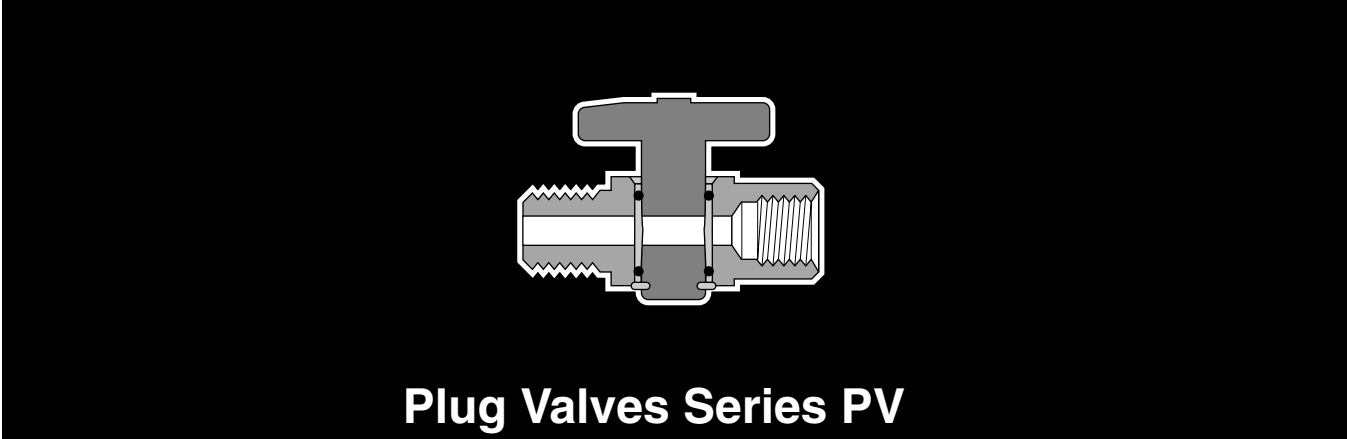
**VVP500 POSHA 29 CFR Part 1910 Vented, Locking Handle, Female Pipe Ends**

| Part No.   | Pipe Thread | B Hex  | C Hex  | K    | H    | L    | M    | N    | Flow Dia. D |
|------------|-------------|--------|--------|------|------|------|------|------|-------------|
| VVP500P-4  | 1/4         | 15/16  | 15/16  | 1.11 | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| VVP500P-6  | 3/8         | 15/16  | 15/16  | 1.11 | 3.96 | 4.90 | 2.03 | 2.47 | .375        |
| VVP500P-8  | 1/2*        | 1-1/16 | 1-1/16 | 1.23 | 3.96 | 5.00 | 2.20 | 2.58 | .500        |
| VVP500P-12 | 3/4**       | 1-1/4  | 1-5/16 | 1.45 | 3.96 | 5.25 | 2.42 | 2.81 | .685        |
| VVP500P-16 | 1**         | 1-1/2  | 1-9/16 | 1.58 | 3.96 | 5.34 | 2.75 | 3.08 | .875        |

For use with 5/16" Dia. shank lock

\* PTF special short  
 \*\*PTF special extra short





**Plug Valves Series PV**

**Advantages**

Compact design features internal nitrile seals and a one-piece extruded brass body, offering compatibility with a wide range of media. The one-piece stem/handle combination is constructed of glass reinforced acetal copolymer. Parker plug valves feature 1/4 turn shutoff allowing for ease of operation. All plug valves are 100% leak tested and are certified to be leak free to one SCCM.

**Materials**

- Extruded Bodies: CA 360
- Stem/Handle: Acetal Copolymer
- O-Rings: Nitrile (other compounds available)
- Stop Pin: 420SS
- Spiral Ring: 302SS

**Temperature and Working Pressure Ranges**

From -40° to +175°F at 250 PSI maximum.

**Applications**

Manufactured for use with air, water, oil and certain other fluids. Contact factory for special fluid requirements.

**Installation Instructions**

To assure sealability and reliable performance, the valve must be installed so that the flow media travels in the direction of the arrow on the valve handle.

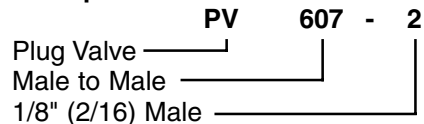
**Order**

By part number and name.

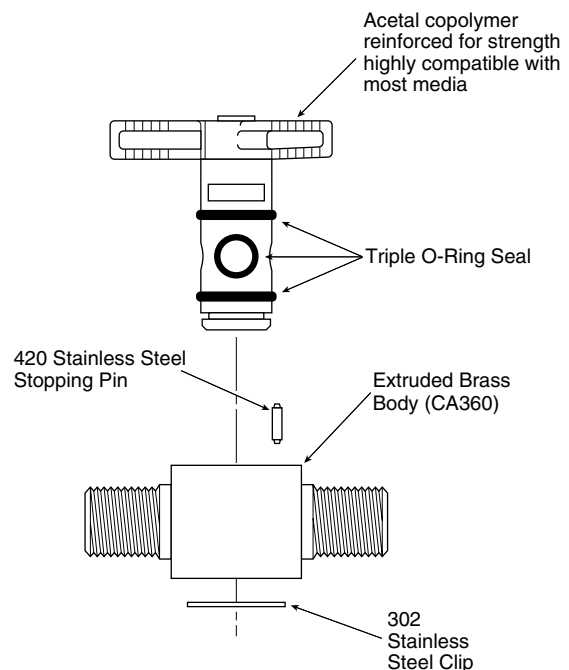
**Nomenclature**

Part numbers are constructed from symbols that identify the style and size of the fitting. The first series of numbers and letters identifies the style and type fitting. The second series of numbers describes the size.

**Example:**

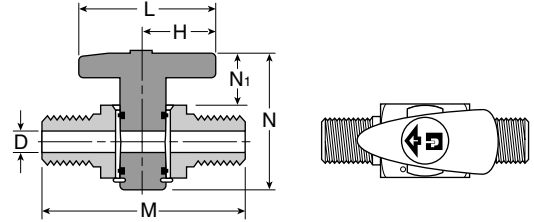


**Features**



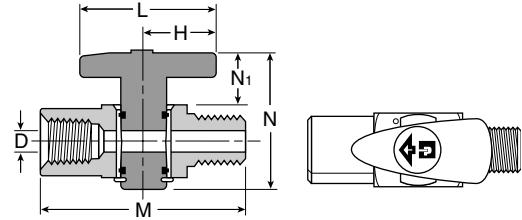
**Male Pipe to Male Pipe Plug Valve PV607**

| Part No. | Pipe Thread | H   | L    | M    | N    | N1  | Flow Dia. D |
|----------|-------------|-----|------|------|------|-----|-------------|
| PV607-2  | 1/8         | .67 | 1.34 | 1.66 | 1.38 | .51 | .200        |
| PV607-4  | 1/4         | .67 | 1.34 | 2.02 | 1.38 | .51 | .200        |



**PV608 Female Pipe to Male Pipe Plug Valve**

| Part No. | Pipe Thread | H   | L    | M    | N    | N1  | Flow Dia. D |
|----------|-------------|-----|------|------|------|-----|-------------|
| PV608-2  | 1/8         | .67 | 1.34 | 1.67 | 1.38 | .51 | .200        |
| PV608-4  | 1/4         | .67 | 1.34 | 2.06 | 1.38 | .51 | .200        |



**PV609 Female Pipe to Female Pipe Plug Valve**

| Part No. | Pipe Thread | H   | L    | M    | N    | N1  | Flow Dia. D |
|----------|-------------|-----|------|------|------|-----|-------------|
| PV609-2  | 1/8         | .67 | 1.34 | 1.68 | 1.38 | .51 | .200        |
| PV609-4  | 1/4         | .67 | 1.34 | 2.10 | 1.38 | .51 | .200        |

