

General Description

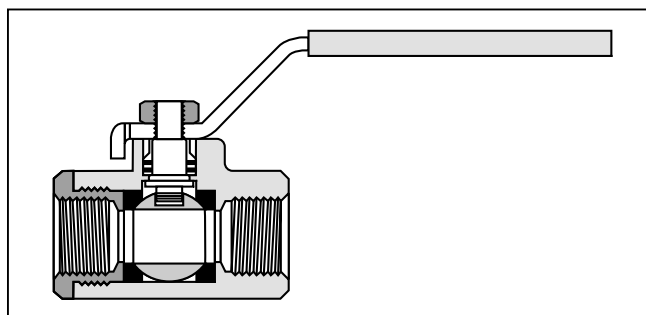
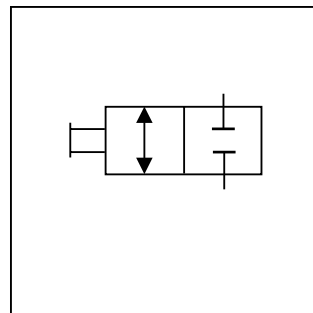
Series 500CS low pressure carbon steel ball valves provide total shut-off capability for services up to 138 Bar (2000 PSI).

Operation

A quarter turn of the handle is on or off. Ball valves are not intended for use as a throttling valve. Attempting to use it in these applications may result in premature seal failure and/or inability to turn the valve handle.

Features

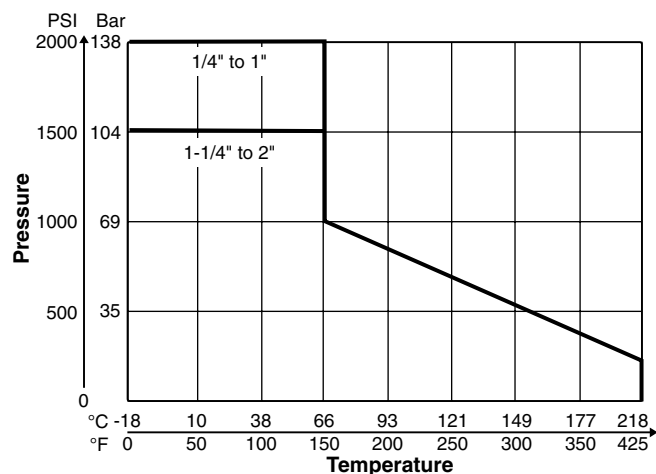
- Ball valve bodies are machined from high quality carbon steel and phosphate coated forgings providing superior corrosion resistance.
- Highly inert PTFE seats and seals provide resistance to chemical corrosion.
- Blowout proof stem design, chrome plated brass ball and a special design handle enable increased turn and leverage for ease of opening and closing.
- Padlocking handle options provides lock-out capability where required.
- In-line or panel mount options provide installation flexibility.



Specifications

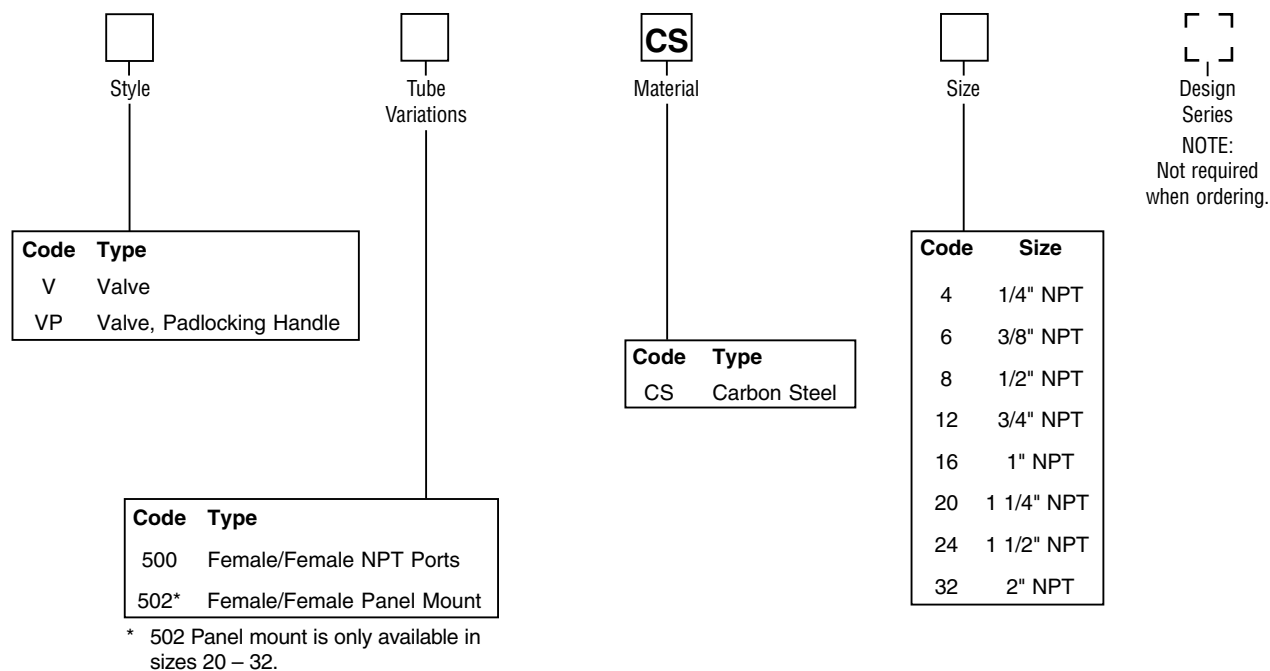
| | |
|--------------------------------|----------------------------------|
| Working Pressure | 138 Bar (2000 PSI) |
| Saturated Steam Service | 10 Bar (150 PSI) |
| Body Material | Carbon Steel Phosphate Coated |

Performance Curves

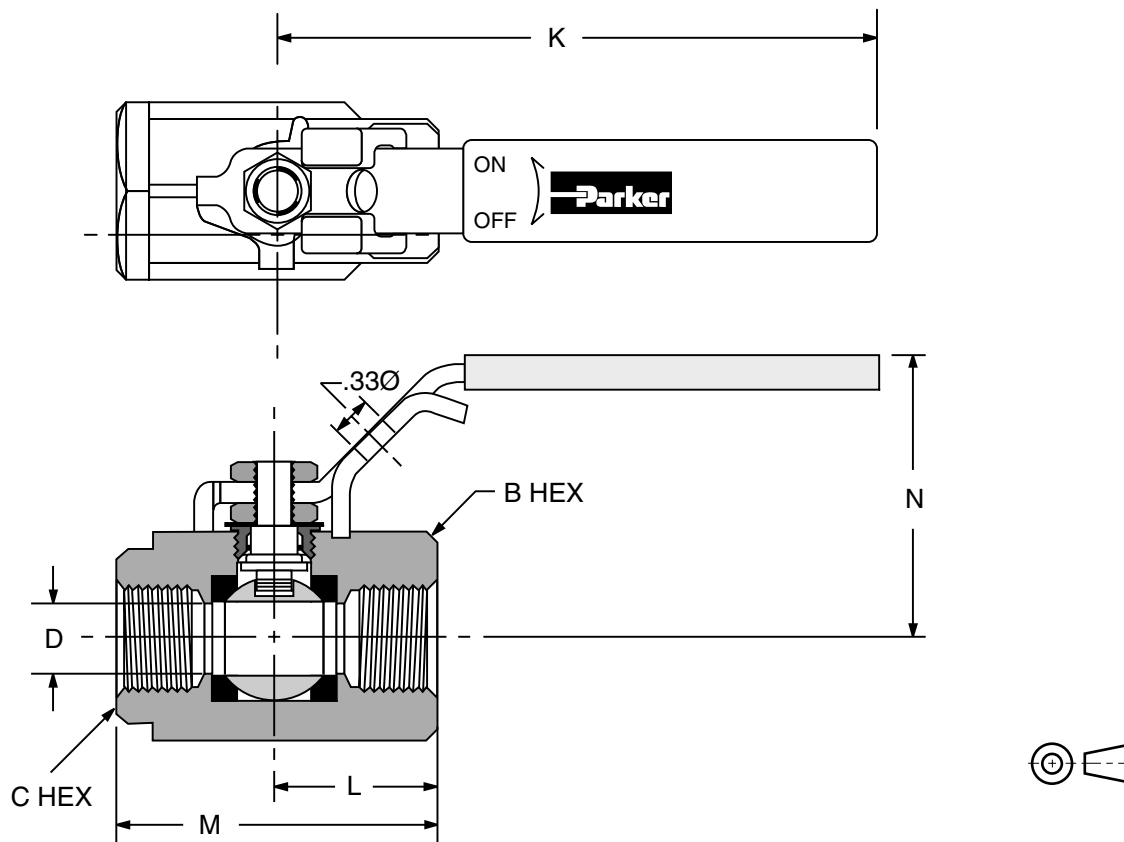


Flow Data

| Type 500CS, 502CS | |
|-------------------|----------------|
| Valve Size | C _v |
| 1/4" | 6.0 |
| 3/8" | 12.0 |
| 1/2" | 15.0 |
| 3/4" | 23.0 |
| 1" | 36.0 |
| 1-1/4" | 44.0 |
| 1-1/2" | 64.0 |
| 2" | 114.0 |

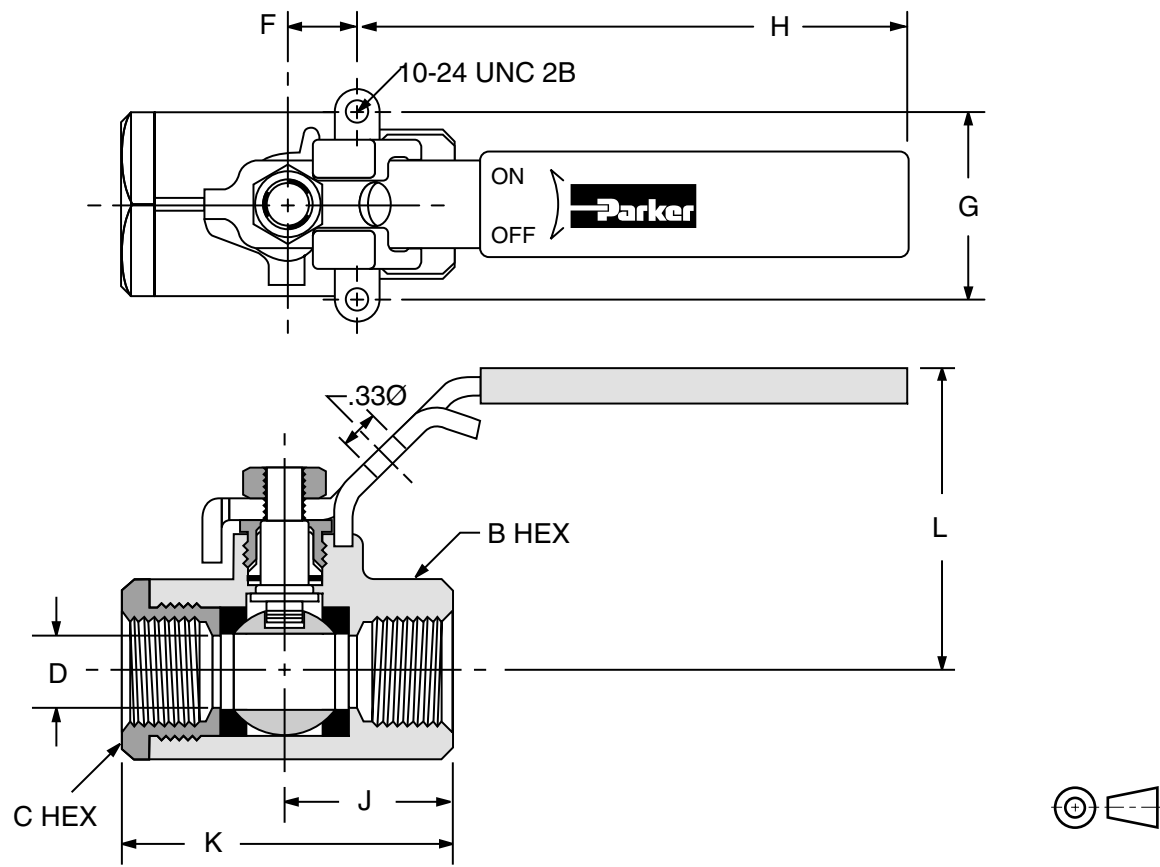


Model V500CS and VP500CS



| Part Number | Pipe Thread | B Hex | C Hex | Dimensions mm (in) | | | | D Flow Ø |
|--|----------------|----------|----------|--------------------|----------------|----------------|----------------|----------------|
| | | | | K | L | M | N | |
| Female-Female Pipe Ends V500CS | | | | | | | | |
| V500CS4 | 1/4" | 1-1/16" | 15/16" | 96.0 (3.78) | 25.4 (1.00) | 50.8 (2.00) | 41.4 (1.63) | 10.2 (.400) |
| V500CS6 | 3/8" | 1-1/16" | 15/16" | 96.0 (3.78) | 25.4 (1.00) | 50.8 (2.00) | 41.4 (1.63) | 10.2 (.400) |
| V500CS8 | 1/2" | 1-1/4" | 1-1/16" | 96.0 (3.78) | 31.8 (1.25) | 60.2 (2.37) | 43.9 (1.73) | 13.7 (.540) |
| V500CS12 | 3/4" | 1-5/8" | 1-3/8" | 129.5 (5.10) | 38.1 (1.50) | 73.7 (2.90) | 52.8 (2.08) | 17.3 (.680) |
| V500CS16 | 1" | 2" | 1-5/8" | 129.5 (5.10) | 44.7 (1.76) | 86.6 (3.41) | 58.4 (2.30) | 22.4 (.880) |
| Locking Handle, Female Pipe Ends VP500CS (Shown above) | | | | | | | | |
| VP500CS4 | 1/4" | 1-1/16" | 15/16" | 104.9 (4.13) | 25.4 (1.00) | 50.8 (2.00) | 56.6 (2.23) | 10.2 (.400) |
| VP500CS6 | 3/8" | 1-1/16" | 15/16" | 104.9 (4.13) | 25.4 (1.00) | 50.8 (2.00) | 56.6 (2.23) | 10.2 (.400) |
| VP500CS8 | 1/2" | 1-1/4" | 1-1/16" | 104.9 (4.13) | 31.8 (1.25) | 60.2 (2.37) | 56.6 (2.33) | 13.7 (.540) |
| VP500CS12 | 3/4" | 1-5/8" | 1-3/8" | 127.0 (5.00) | 38.1 (1.50) | 73.7 (2.90) | 71.1 (2.80) | 17.3 (.680) |
| VP500CS16 | 1" | 2" | 1-5/8" | 127.0 (5.00) | 44.7 (1.76) | 86.6 (3.41) | 75.4 (2.97) | 22.4 (.880) |

Model V502CS and VP502CS



| Part Number | Pipe Thread | B Hex | C Hex | Dimensions mm (in) | | | | | | D Flow Ø |
|---|-------------|---------|--------|--------------------|----------------|-----------------|----------------|-----------------|----------------|-----------------|
| | | | | F | G | H | J | K | L | |
| Female-Female Pipe Ends, Panel Mount V502CS | | | | | | | | | | |
| V502CS20 | 1-1/4" | 2" | 2-1/4" | 23.9 (0.94) | 38.1 (1.50) | 154.9 (6.10) | 47.5 (1.87) | 96.5 (3.80) | 70.1 (2.76) | 25.4 (1.000) |
| V502CS24 | 1-1/2" | 2-5/16" | 2-1/2" | 23.9 (0.94) | 38.1 (1.50) | 154.9 (6.10) | 57.7 (2.27) | 115.6 (4.55) | 75.7 (2.98) | 31.8 (1.250) |
| V502CS32 | 2" | 2-3/4" | 3" | 26.2 (1.03) | 50.8 (2.00) | 218.4 (8.60) | 61.5 (2.42) | 122.7 (4.83) | 89.9 (3.54) | 38.1 (1.500) |
| Locking Handle, Female Pipe Ends, Panel Mount VP502CS (Shown above) | | | | | | | | | | |
| VP502CS20 | 1-1/4" | 2" | 2-1/4" | 23.9 (0.94) | 38.1 (1.50) | 190.5 (7.50) | 47.5 (1.87) | 96.5 (3.80) | 80.0 (3.15) | 25.4 (1.000) |
| VP502CS24 | 1-1/2" | 2-5/16" | 2-1/2" | 23.9 (0.94) | 38.1 (1.50) | 190.5 (7.50) | 57.7 (2.27) | 115.6 (4.55) | 85.6 (3.37) | 31.8 (1.250) |
| VP502CS32 | 2" | 2-3/4" | 3" | 26.2 (1.03) | 50.8 (2.00) | 222.3 (8.75) | 61.5 (2.42) | 122.7 (4.83) | 87.9 (3.46) | 38.1 (1.500) |

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