The Solution for Gas Sample Storage:

Parker offers a full line of DOT* (Department of Transportation) approved sample cylinders and cylinder accessories to provide a stable and secure storage and transportation environment for collected samples. Both spun end and constant pressure cylinders are available in a variety of sizes and valve configurations. Constructed of 316 SS, they are ideal for a wide variety of sample collection and analysis needs. Formed with double-ends of seamless tubing, the cylinders provide consistency in wall thickness and internal volume.

Featured Products:

- Spun End Cylinders
- Ultra-Seal™ Constant Pressure Cylinders* (not DOT approved)
- VP™ Series Cylinder Valves
- Rupture Disc Couplers
- Cylinder Cases
- Sample Valve Quick Connects
- Spare Parts
Spun End Cylinders

Product Features:

- 1800 PSI DOT-3E rating
- Seamless 316 stainless steel construction to NACE MR0175 / ISO 15156-3
- Heat code traceability
- Hydrostatic test certificates available

Ordering Information:

**Building a Part Number: Example: SE3-BSDT-ESDT18**

<table>
<thead>
<tr>
<th>Example Part Number:</th>
<th>SE</th>
<th>3</th>
<th>—</th>
<th>B</th>
<th>S</th>
<th>D</th>
<th>T</th>
<th>—</th>
<th>ESĐT18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Parameters/Options:</td>
<td>Base Model</td>
<td>Cylinder Size</td>
<td>Cylinder Body</td>
<td>Valve Material</td>
<td>Soft Seat Material</td>
<td>Stem Seal Material</td>
<td>Burst Disc Material</td>
<td>Options</td>
<td>Uses same Options/Codes as Top Valve to configure Bottom Valve</td>
</tr>
<tr>
<td>Table Reference: (see below)</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td>G</td>
<td>See Sections B, C, D, E, F, G</td>
<td></td>
</tr>
</tbody>
</table>

- **A - Cylinder Size** *(316 SS standard)*
  - 1: 150cc Spun End Cylinder
  - 3: 300cc Spun End Cylinder
  - 5: 500cc Spun End Cylinder

- **B - Cylinder Body** *Must be used in Bottom valve position only*
  - B: VP-554: 1/4" M x M Straight, valve only *(316 only, T-handle standard)*
  - C: VP-555: 1/4" M x F Straight, valve only *(316 only, T-handle standard)*
  - D*: VP-590: 1/4" M x M Straight, valve & burst port less burst disc *(316 only, T-handle standard)*
  - E*: VP-591: 1/4" M x F Straight, valve & burst port less burst disc *(316 only, T-handle standard)*
  - F*: VP-592: 1/4" M x F Angle, valve & burst port less burst disc *(316 only, T-handle standard)*
  - H: V-554: 1/4" M x M Straight, valve only *(available in 316 SS or CS, round phenolic handle standard)*
  - J: V-556: 1/4" M x F Straight, valve only *(available in 316 SS or CS, round phenolic handle standard)*

- **D - Soft Seat Material**
  - D: Acetal Resin (standard)
  - P: PEEK

- **E - Stem Seal Material**
  - T: PTFE Pressure-Core stem seal or PTFE packed stem seal *(see Table B, Cylinder Body for more information)*

- **F - Burst Disc Pressure**
  - NON Dot above 1800 PSI
  - 18: 1800 PSI Burst Disc *(Inconel standard)*
  - Consult factory for values above 1800 PSI

- **G - Options**
  - HA: Extruded Aluminum Round Handle *(VP Series only)*
  - H5: Carbon Steel Round handle *(H, and J only)*
  - H6: Stainless Steel round Handle *(H, and J only)*
  - L: 316 SS Burst Disc *(option adder *18* Burst Disc, i.e.,18L)*
  - Q: Sample Bottle Quick Mount Adapter *(for use with Parker Heated Enclosure valid with Top Valve only - see Page 7 for more information on "Q" Option)*
  - W1: 316 SS I.D. Tag

- **C - Valve Material**
  - S: 316 SS *(standard)*

**Weight and Dimensions:**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>OAL</th>
<th>OD</th>
<th>NPT</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>150cc</td>
<td>8.25&quot; (209.55 mm)</td>
<td>1.5&quot; (38.1 mm)</td>
<td>1/4&quot;</td>
<td>1.0 lbs. (0.45 kg)</td>
</tr>
<tr>
<td>200cc</td>
<td>9.25&quot; (234.95 mm)</td>
<td>2&quot; (50.8 mm)</td>
<td>1/4&quot;</td>
<td>1.8 lbs. (0.81 kg)</td>
</tr>
<tr>
<td>500cc</td>
<td>13.88&quot; (352.55 mm)</td>
<td>2&quot; (50.8 mm)</td>
<td>1/4&quot;</td>
<td>2.5 lbs. (1.13 kg)</td>
</tr>
</tbody>
</table>

*Note: Overall Length (OAL) and Weight are less Valves*
Ultra-Seal™ Constant Pressure Cylinder

Product Features:

- 316 SS shut-off valves on each end with Acetal Resin soft seats and PTFE Pressure-Core® stem seals — standard with 5-year no-leak warranty
- Mag-N-Tube™ volume indicator
- Suitable for gas and liquid sampling
- Patented piston with ceramic magnets and magnetic field intensifier to monitor the volume of sampled fluid
- Optional 80% fill switch provides additional safety

Ordering Information:

Building a Part Number: *Example: CA3G30-18Y*

<table>
<thead>
<tr>
<th>Example Part Number:</th>
<th>C</th>
<th>A</th>
<th>3</th>
<th>G</th>
<th>30</th>
<th>18</th>
<th>Y</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Parameters/ Options:</td>
<td>Base Model</td>
<td>Piston Options</td>
<td>Cylinder Body</td>
<td>Valve Options</td>
<td>Cylinder Capacity</td>
<td>Burst Disc Pressure</td>
<td>Options</td>
</tr>
<tr>
<td>Table Reference: (see below)</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
<td></td>
</tr>
</tbody>
</table>

A - Piston Options

- A: Liquid Piston with Jet-Flo Liquid Mixer (The Jet Flo mixer is designed to mix the contents of the cylinder as a result of the mixer traveling through the product by gravity)
- E: Piston - No Mixer (for gas only)

B - Cylinder Body

1. Basic Cylinder
2. Basic Cylinder with Purge Valve on Product End (PEEK Purge Valve Seat only)
3. Basic Cylinder with Purge Valve on Both Ends (PEEK Purge Valve Seat only)

C - Valve Options

- G: VP 306 & 307 SDT Valves and 2,000 PSI Liquid Filled Gauges (no burst disc)
- V: VP 306 & 307 SDT Valves (no burst disc or gauges)

D - Cylinder Capacity

| 30 | 300cc |
| 50 | 500cc |
| 1K | 1000cc |

F - Burst Disc Pressure

| 18 | Inconel 1800 PSI Burst Disc (2 Disc) |

G - Cylinder Options

- A1: CO2 Service O-Rings
- C: Impreglon Coated Cylinder
- D: Impreglon Coated Cylinder and Wetted Parts
- E: Monel® Burst Disc (2)
- F: 316 SS Burst Disc (2) - Option adder to Burst Disc Pressure Option “18”
- M: Gas Mixer (add to E gas piston only)
- PT: PEEK Valve Seat (VP 306 & 307 SPT Valves)
- Y: 80% Fill Switch (interfaces with ESD) - includes 5’ of cable

Material of Construction:

<table>
<thead>
<tr>
<th>Description</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder</td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>Tie Rods and Nuts</td>
<td>304 Stainless Steel</td>
</tr>
<tr>
<td>End Caps</td>
<td>316 Stainless Steel</td>
</tr>
<tr>
<td>Purge Valve</td>
<td>316 Stainless Steel; PEEK Seats</td>
</tr>
<tr>
<td>Shut-Off Valves</td>
<td>316 Stainless Steel</td>
</tr>
</tbody>
</table>

Weight and Dimensions:

<table>
<thead>
<tr>
<th>SIZE</th>
<th>OAL</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>300cc</td>
<td>16.5” (419.1 mm)</td>
<td>10 lbs. (4.53 kg)</td>
</tr>
<tr>
<td>500cc</td>
<td>21.4” (543.8 mm)</td>
<td>13.5 lbs. (6.12 kg)</td>
</tr>
<tr>
<td>1000cc</td>
<td>33.7” (855.9 mm)</td>
<td>18 lbs. (8.16 kg)</td>
</tr>
</tbody>
</table>

Note: Overall Length (OAL) includes Gauges and Valves
**VP™ Series Cylinder Valves**

**Product Features:**

- Features patented Pressure-Core® stem seal technology — standard with 5-year no-leak warranty
- Meets the requirements of NACE MR0175/ISO 15156-3
- Provides 4 times the sealing area of a standard Mini Seat — 6,000 PSI @ 200° max
- CO₂ and H₂S compatible materials standard
- Same Cv rating (.22 max) as the conventional mini bonnet

**Ordering Information:**

<table>
<thead>
<tr>
<th>Example Part Number:</th>
<th>VP</th>
<th>306</th>
<th>S</th>
<th>D</th>
<th>T</th>
<th>18</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Parameters/Options:</td>
<td>Valve Series</td>
<td>Model Number</td>
<td>Valve Material</td>
<td>Soft Seat Material</td>
<td>Stem Seal Material</td>
<td>Burst Disc Pressure</td>
</tr>
<tr>
<td>Table Reference: (see below)</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
</tr>
</tbody>
</table>

**A - Model Numbers**

- **306** 1/4” MNPT x 1/4” FNPT Straight RH (Product End) with Burst & Gauge Port (Less Disc)
- **307** 1/4” MNPT x 1/4” FNPT Straight LH (Charge End) with Burst & Gauge Port (Less Disc)
- **552** 1/4” MNPT x 1/4” FNPT Angle, Valve Only
- **554** 1/4” MNPT x 1/4” MFPT Straight, Valve Only
- **556** 1/4” MNPT x 1/4” FNPT Straight, Valve Only
- **590** 1/4” MNPT x 1/4” MNPT Straight, Valve & Burst Port (less disc)
- **591** 1/4” MNPT x 1/4” FNPT Straight, Valve & Burst Port (less disc)
- **592** 1/4” MNPT x 1/4” FNPT Angle, Valve & Burst Port (less disc)

**B - Valve Material**

- **S** 316 SS standard

**C - Soft Seat Material** - 6,000 psig (413.7 bar) @ 200°F (93°C)

- **D** Acetal Resin (standard)
- **K** PCTFE (Polychlorotrifluoroethylene)
- **P** PEEK

**D - Stem Seal Material**

- **T** PTFE Pressure-Core® (standard)

**E - Burst Disc Pressure**

- **18** Inconel 1800 PSI Burst Disc (2 Disc)
  
- Consult factory for values above 1800 PSI

**F - Options**

- **HA** Extruded Aluminum Round Handle
- **L** 316 SS Burst Disc (Option adder to Burst Disc Pressure code “18”)
Cylinder Valves

Product Features:

- Miniature Needle Valves valves with FKM O-ring stem seals or PTFE stem packing
- .22 C\textsubscript{V} Flow Capacity
- Angled or straight body styles
- Optional Round Handle

Ordering Information:

**Building a Part Number: Example: V-554SDT-H6**

<table>
<thead>
<tr>
<th>Example Part Number:</th>
<th>V</th>
<th>S</th>
<th>D</th>
<th>T</th>
<th>-</th>
<th>H6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Parameters/</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Options:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Table Reference:</td>
<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>E</td>
<td>F</td>
</tr>
</tbody>
</table>

**A - Model Numbers**

- 552 1/4" MNPT x 1/4" FNPT Angle
- 554 1/4" MNPT x 1/4" MNPT Straight
- 556 1/4" MNPT x 1/4" FNPT Straight

**B - Valve Material**

- S 316 SS standard
- C Carbon Steel

**C - Soft Seat Material - 6,000 psig (413 bar) @ 200°F (93°C)**

<table>
<thead>
<tr>
<th></th>
<th>D</th>
<th>K</th>
<th>P</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetal Resin (standard)</td>
<td>PCTFE (Polychlorotrifluoroethylene)</td>
<td>PEEK</td>
<td></td>
</tr>
</tbody>
</table>

**D - Stem Seal Material**

- T PTFE Pressure-Core\textsuperscript{®} (standard)
- V FKM O-Ring

**E - Handle Options**

- H5 Carbon Steel Round Handle
- H6 Stainless Steel Round Handle

**F - Options**

- Q Sample Bottle Quick Mount Adapter
- W1 316 SS Tag

**Packed Straight Style**

**FKM Angle Style**

**FKM Straight Style**
Rupture Disc Couplers

Product Features:

- Rupture disc couplers available with pipe away disc caps
- The rupture disc is a forward acting rupture disc
- Designed for working pressure not exceeding 70% stamped burst pressure
- Standard material for the rupture disc is Inconel® 600
- Angular seated design allows for safe venting to the atmosphere

Material of Construction:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-563S-18</td>
<td>316 SS 1/4&quot; MNPT x 1/4&quot; FNPT, Coupler and 1800# Inconel Rupture Disc</td>
</tr>
<tr>
<td>C1-006-CO</td>
<td>316 SS 1/4&quot; Pipe Away Burst Disc Cap for Rupture Disc Vent Port</td>
</tr>
</tbody>
</table>

Dimensions:

Pipe Away Burst Disc Cap

C1-006-CO

Rupture Disc Coupler

V-563
Cylinder Cases

Product Features:

- Solid foam insert
- Unbreakable, water-tight, dust-proof, chemical resistant and corrosion-proof design
- Black ultra high impact structure, ABS latches seal, O-ring seal
- Wheeled end for ease of transport

Product Details:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Capacity</th>
<th>Weight</th>
<th>Temperature Rating</th>
<th>Inside Dimensions</th>
<th>Outside Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC-500</td>
<td>150cc, 300cc, 500cc (1) Cylinders</td>
<td>19 lbs (8.61 kg)</td>
<td>Minimum: -10°F (-23°C) Maximum: +210°F (+99°C)</td>
<td>35-3/4” x 13-13/16” x 5-1/4” (91 x 35.1 x 13.3 cm)</td>
<td>38-1/8” x 17-13/16” x 6-1/8” (96.8 x 45.2 x 15.5 cm)</td>
</tr>
<tr>
<td>PC-1000</td>
<td>1000cc (1) Cylinders</td>
<td>26 lbs (11.79 kg)</td>
<td></td>
<td>50-1/2” x 13-7/16” x 5-1/4” (128.3 x 34.1 x 13.3 cm)</td>
<td>53” x 17-7/16” x 6-1/16” (134.6 x 44.36 x 15.4 cm)</td>
</tr>
</tbody>
</table>

Sample Valve Quick Connects

For use with Hot-Shot™ Natural Gas Sampling System Heated Enclosures

Product Features:

- Adapts a sample bottle having a male or female shut-off valve outlet for use with the heated enclosure system
- Available with safety plug and O-ring for guaranteed sample retention in transit
- 1/4” male or female NPT inlet x sample bottle mount adapter outlet

Product Details:

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inlet Configuration</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QA-M-14-S</td>
<td>Male</td>
<td>* 316 SS 1/4” (male or female) NPT inlet x “Q” adapter outlet includes safety plug and O-ring</td>
</tr>
<tr>
<td>QA-F-14-S</td>
<td>Female</td>
<td></td>
</tr>
<tr>
<td>HE-037-C0</td>
<td>Male</td>
<td>*316 SS 1/4” (male or female) NPT inlet x “Q” adapter outlet</td>
</tr>
<tr>
<td>HE-080-C0</td>
<td>Female</td>
<td></td>
</tr>
</tbody>
</table>

* Parker PGI 316 SS products meet the requirements of NACE MR0175/ISO 15156-3
# Spare Parts

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ultra-Seal™ Constant Pressure Cylinder</strong></td>
<td></td>
</tr>
<tr>
<td>SA-CY</td>
<td>80% Fill Switch (includes 5’ cable)</td>
</tr>
<tr>
<td>SS-C9E-529-CL</td>
<td>Gauge 2-1/2” dial, 1/4” MNPT, 316 SS (0-2000 PSI)</td>
</tr>
<tr>
<td>SS-C9E-500-CL</td>
<td>Liquid Filled Gauge 2-1/2” dial, 1/4” MNPT, 316 SS (0-2000 PSI) Center Back Mount</td>
</tr>
<tr>
<td>SS-C9E-516-CL</td>
<td>Liquid Filled Gauge 2-1/2” dial, 1/4” MNPT, 316 SS (0-300 PSI) Center Back Mount</td>
</tr>
<tr>
<td>SS-C9E-517-CL</td>
<td>Liquid Filled Gauge 2-1/2” dial, 1/4” MNPT, 316 SS (0-600 PSI) Center Back Mount</td>
</tr>
<tr>
<td>SS-C9E-518-CL</td>
<td>Liquid Filled Gauge 2-1/2” dial, 1/4” MNPT, 316 SS (0-1000 PSI) Center Back Mount</td>
</tr>
<tr>
<td>SP7-031-G0-18</td>
<td>1/4” MNPT Inconel 1800 PSI Rupture Disc</td>
</tr>
<tr>
<td>SK-CYL-02</td>
<td>Liquid Mixer &amp; Piston Kit — includes End Cap O-Rings, Piston &amp; Jet-Flo</td>
</tr>
<tr>
<td>SK-CYL-03</td>
<td>Standard Cylinder O-Ring Kit</td>
</tr>
<tr>
<td>SK-CYL-04</td>
<td>Gas Mixture Kit</td>
</tr>
<tr>
<td>SK-CYL-05</td>
<td>Gas Piston Kit</td>
</tr>
<tr>
<td>SK-CYL-06</td>
<td>CO₂ Service O-Ring Kit</td>
</tr>
<tr>
<td><strong>VP™ Series Cylinder Valve Spare Parts - Pressure-Core® Stem Seal</strong></td>
<td></td>
</tr>
<tr>
<td>SP3-010-R1</td>
<td>PCTFE Seats</td>
</tr>
<tr>
<td>SP3-010-R2</td>
<td>PTFE Seats</td>
</tr>
<tr>
<td>SP3-010-R3</td>
<td>Acetal Resin Seats</td>
</tr>
<tr>
<td>SP3-010-R4</td>
<td>PEEK Seats</td>
</tr>
<tr>
<td>SP7-031-G0-18</td>
<td>1/4” Inconel 1800 PSI Rupture Disc</td>
</tr>
<tr>
<td>SAV-004-A0</td>
<td>Tee Handle (std.)</td>
</tr>
<tr>
<td>SAV117S-T-H4</td>
<td>Bonnet Assembly 316 SS - Mini Pressure-Core® Stem Seal</td>
</tr>
<tr>
<td><strong>Miniature Valves (.136 Orifice) Spare Parts</strong></td>
<td></td>
</tr>
<tr>
<td>P5-020-R0</td>
<td>Mini PTFE Seat</td>
</tr>
<tr>
<td>P5-020-R1</td>
<td>Mini PCTFE Seat</td>
</tr>
<tr>
<td>P5-020-R2</td>
<td>Mini Acetal Resin Seat</td>
</tr>
<tr>
<td>P5-020-R3</td>
<td>Mini PEEK Seat</td>
</tr>
<tr>
<td>P7-024-C0</td>
<td>Wavey Washer</td>
</tr>
<tr>
<td>P5-019-R0</td>
<td>Mini Packed PTFE Seal</td>
</tr>
<tr>
<td>P7-025-C0</td>
<td>Mini Packed PTFE Seal Stainless Backup Washer</td>
</tr>
<tr>
<td><strong>Miniature Valves Bonnet Assemblies</strong></td>
<td></td>
</tr>
<tr>
<td>SAV107S-T</td>
<td>Stainless Steel with Packed PTFE</td>
</tr>
<tr>
<td><strong>Miniature Valves Handles (Non-VP Style)</strong></td>
<td></td>
</tr>
<tr>
<td>SAV-001-10</td>
<td>Carbon Steel Round Handle</td>
</tr>
<tr>
<td>SAV-001-A0</td>
<td>Stainless Steel Round Handle</td>
</tr>
<tr>
<td>SAV-002-10</td>
<td>Carbon Steel Bar Handle</td>
</tr>
<tr>
<td>SAV-002-A0</td>
<td>Stainless Steel Bar Handle</td>
</tr>
</tbody>
</table>
NOTES:

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Parker’s Motion & Control Technologies

At Parker, we’re guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further information call 1-800-C-Parker.

<table>
<thead>
<tr>
<th>MARKET</th>
<th>KEY MARKETS</th>
<th>KEY PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIMATE CONTROL</td>
<td>Agriculture Food, Beverage and Dairy Precision Cooling Transportation</td>
<td>Air Conditioning Life Sciences &amp; Medical Processing</td>
</tr>
<tr>
<td>FLUID and GAS HANDLING</td>
<td>Aerospace Agriculture Bulk Chemical Handling Construction Machinery Food &amp; Beverage Fuel &amp; Gas Delivery</td>
<td>Industrial Machinery Mobile Oil &amp; Gas Transportation Welding</td>
</tr>
<tr>
<td>HYDRAULICS</td>
<td>Aerospace Aerial lift Agriculture Construction Machinery Forestry</td>
<td>Industrial Machinery Mining Oil &amp; Gas Power Generation &amp; Energy Truck Hydraulics</td>
</tr>
</tbody>
</table>
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