15/40/80CN Series
Medium Pressure Filters
Applications for CN series Filters

- Compressor Lube Oil
- Off-line Filter Loops
- Machine Tools (Automotive Standard)
- Hydrostatic Drive Charge Pumps
- Mobile Equipment
- Pilot Lines For Servo Controls
- Oil Patch Drilling Equipment
- Injection Molding

This partial list of applications for Parker “CN” series filters has a common factor, the need for an economical, medium pressure range filter with excellent fatigue pressure ratings. Prior to the availability of the “CN” filter, applications such as those listed were restricted by limitations of a spin-on can, or forced into the higher cost range of high pressure filters.

The “CN” series fills this gap, and now with the newly increased fatigue rating from 550 to 800 psi, the applications are expanded.

<table>
<thead>
<tr>
<th>Features</th>
<th>Advantages</th>
<th>Benefits</th>
</tr>
</thead>
<tbody>
<tr>
<td>• 800 psi fatigue rating</td>
<td>• Ability to provide reliable service under tough cyclic operating</td>
<td>• Reduced downtime due to premature filter failures</td>
</tr>
<tr>
<td>(eight times that of a spin-on)</td>
<td>conditions</td>
<td>• Reduced costs, better “fit” for the application</td>
</tr>
<tr>
<td>• Diametral (side) seal between</td>
<td>• Proven reliability in cyclic applications</td>
<td>• No downtime, no leaks</td>
</tr>
<tr>
<td>head and bowl</td>
<td>• Reduced importance of bowl torque</td>
<td>• Performs with “real world” service</td>
</tr>
<tr>
<td>• Dust Seal</td>
<td>• Prevents contamination from building up on bowl / head threads</td>
<td>• Easier service, no galling</td>
</tr>
<tr>
<td>• 40CN-2 meets automotive HF3</td>
<td>• Automotive industry acceptance</td>
<td>• Satisfies specifications without need for further testing and/or approval</td>
</tr>
<tr>
<td>standard</td>
<td>• Complete performance data disclosure</td>
<td>• Less weight, smaller envelop and cleaner appearance</td>
</tr>
<tr>
<td>• 15CN meets automotive HF2</td>
<td>• Visual, electrical or electrical/visual indicators available</td>
<td></td>
</tr>
<tr>
<td>standard</td>
<td>• Wire reinforced media</td>
<td>• Check element condition at a glance</td>
</tr>
<tr>
<td>• Cast aluminum head</td>
<td>• Visual, electrical or electrical/visual indicators available</td>
<td>• Match your system electrical connections</td>
</tr>
<tr>
<td>• Reinforced Microglass III</td>
<td>• Microglass III media Bp ≥ 200</td>
<td></td>
</tr>
<tr>
<td>replacement elements</td>
<td>• Spiral support cylinders</td>
<td></td>
</tr>
<tr>
<td>• Complete performance data</td>
<td>• Visual, electrical or electrical/visual indicators available</td>
<td></td>
</tr>
<tr>
<td>disclosure</td>
<td>• Check element condition at a glance</td>
<td></td>
</tr>
<tr>
<td>• Visual, electrical or electrical/visual indicators available</td>
<td>• Right style for the application</td>
<td></td>
</tr>
</tbody>
</table>

Parker Hannifin Corporation
Hydraulic Filter Division
Metamora, OH
Features

Ports
- SAE, NPT or flange face (80CN) provides mounting flexibility.

Diametral (side) Seal
- Protects head and bowl threads from external contamination buildup.

Dust Seal
- Protects head and bowl threads from external contamination buildup.

Element Assembly
- High efficiency ($B_v > 200$), high capacity Microglass III media with its multi-layered design is unequalled in performance.

Element Condition Indicators
- Available in visual or electrical, with a choice of several power connections (E3 shown).

Head
- Cast aluminum is rugged with small profile for easy mounting.

Bypass
- Cartridge style bypass has good sealing characteristics and low hysteresis. Choice of two settings to match application needs.

Bowl
- Anodized aluminum is lightweight and corrosion resistant. Friction grip tape prevents slipping when rotating the bowl during service.

Drain Port (optional)
- Optional drain port allows for easy element servicing.
Medium Pressure Filters
15/40/80CN Series

15CN-1 Element Performance

Efficiency

- Beta Rating
- Efficiency %
- Particle Size (Micrometre)
- Pressure Loss (PSID)

Capacity

- BAR
- Grams
- Flow (GPM)

Multipass tests run @ 10 gpm to 100 psid terminal - 5mg/L BUGL

Flow vs. Pressure Loss

- LPM
- PSID
- GPM
- BAR
15CN-2 Element Performance

Multipass tests run @ 15 gpm to 100 psid terminal - 5mg/L BUGL

Flow vs. Pressure Loss
40CN-1 Element Performance

Efficiency and Capacity graphs showing performance metrics for different particle sizes and flow rates.

Flow vs. Pressure Loss graphs illustrating the relationship between flow rate and pressure loss for different nominal port sizes and housing types.

Multipass tests run @ 15 gpm to 100 psid terminal - 5mg/L BUGL
40CN-2 Element Performance

**Efficiency**

- Beta Rating
- Efficiency %

**Capacity**

- PSID
- BAR

**Flow vs. Pressure Loss**

- LPM
- GPM
- SUS

Multipass tests run @ 30 gpm to 100 psid terminal - 5mg/L BUGL
80CN-1 Element Performance

Multipass tests run @ 45 gpm to 100 psid terminal - 5mg/L BUGL

Flow vs. Pressure Loss
80CN-2 Element Performance

Multipass tests run @ 70 gpm to 100 psid terminal - 5mg/L BUGL

Flow vs. Pressure Loss

Parker Hannifin Corporation
Hydraulic Filter Division
Metamora, OH
Specifications: CN Series

Pressure Ratings:
Maximum Allowable Operating Pressure (MAOP): 1000 psi (69 bar)
Rated Fatigue Pressure: 800 psi (55.2 bar)
Design Safety Factor: 2.5:1

Operating Temperatures:
Buna: -40°F (-40°C) to 225°F (107°C)
Fluorocarbon: -15°F (-26°C) to 275°F (135°C)

Element Collapse Rating:
Standard: 150 psi (10.3 bar)

Materials:
Head and Bowl: Aluminum
Indicators: Aluminum body, plastic connectors
Bypass: Nylon

Element Condition Indicators:
Visual 360° green/red auto reset
Electrical/Visual
5A@240VAC, 3A@28VDC
Electrical-Heavy Duty
.25A(resistive) MAX 5 watts
12 to 28 VDC & 110 to 175 VAC
Color code: White (common), Black (normally open), Blue (normally closed)

Weights (approximate):
<table>
<thead>
<tr>
<th>Model</th>
<th>Single length</th>
<th>Double length</th>
</tr>
</thead>
<tbody>
<tr>
<td>15CN</td>
<td>2.5 lb. (1.13 kg)</td>
<td>3.5 lb. (1.6 kg)</td>
</tr>
<tr>
<td>40CN</td>
<td>4.5 lb. (2.00 kg)</td>
<td>5.5 lb. (2.49 kg)</td>
</tr>
<tr>
<td>80CN</td>
<td>12.4 lb. (5.62 kg)</td>
<td>15.2 lb. (6.89 kg)</td>
</tr>
</tbody>
</table>

Dimensions:

<table>
<thead>
<tr>
<th>Dimensions are in (mm)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>J</th>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>15CN</td>
<td>6.17(156.6)</td>
<td>9.87(250.7)</td>
<td>1.83(46.5)</td>
<td>1.09(25.4)</td>
<td>2.80(71.1)</td>
<td>3.38(85.9)</td>
<td>2.88(73.2)</td>
<td>3.25(82.6)</td>
<td>1.50(38.1)</td>
<td>1.89(47.9)</td>
<td>2.44(62.0)</td>
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</tr>
<tr>
<td>40CN</td>
<td>6.73(170.8)</td>
<td>10.33(262.4)</td>
<td>2.44(62.0)</td>
<td>1.28(32.6)</td>
<td>4.22(107.2)</td>
<td>5.00(127.0)</td>
<td>4.37(111.0)</td>
<td>4.80(121.9)</td>
<td>2.44(62.0)</td>
<td>1.25(31.8)</td>
<td>2.32(58.8)</td>
<td>2.37(60.2)</td>
</tr>
<tr>
<td>80CN</td>
<td>8.06(203.9)</td>
<td>15.81(401.6)</td>
<td>3.06(77.7)</td>
<td>1.95(49.5)</td>
<td>4.91(124.8)</td>
<td>6.25(158.7)</td>
<td>3.25(82.6)</td>
<td>5.96(151.4)</td>
<td>4.00(101.6)</td>
<td>1.62(41.1)</td>
<td>3.12(79.4)</td>
<td>1.63(41.3)</td>
</tr>
</tbody>
</table>

Torque:
- 15 - 20 ft. lbs.
- 25 - 30 ft. lbs.

Element Removal Clearance:
- 1.00 (25.4) Nominal Hex
- 2.50 (63.5) Nominal Hex

Weights (approximate):
<table>
<thead>
<tr>
<th>Model</th>
<th>Single length</th>
<th>Double length</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>5.5 lb. (2.49 kg)</td>
</tr>
<tr>
<td>80CN</td>
<td>12.4 lb. (5.62 kg)</td>
<td>15.2 lb. (6.89 kg)</td>
</tr>
</tbody>
</table>
Element Service
A. Stop the system’s power unit.
B. Relieve any system pressure in the filter line.
C. Drain the filter bowl if drain port option is provided.
D. Loosen and remove bowl.
E. Remove element by pulling downward with a slight twisting motion and discard.
F. Check bowl o-ring for damage and replace if necessary.
G. Lubricate element o-ring with system fluid and place on post in filter head.
H. Install bowl and tighten to specified torque.
15CN - 15-20 ft. lbs
40CN - 42-50 ft. lbs
80CN - 60-70 ft. lbs
I. Confirm there are no leaks after powering the system.

Parts List

<table>
<thead>
<tr>
<th>Index</th>
<th>Description</th>
<th>15CN</th>
<th>40CN</th>
<th>80CN</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Head</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>3/4” NPT bypass/ indicator ready</td>
<td>933865</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td></td>
<td>3/4” NPT no bypass/ no indicator</td>
<td>933877</td>
<td>N/A</td>
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<td>SAE-24 bypass/ indicator ready</td>
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<td>2</td>
<td>Indicators</td>
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<td>M2-Visual auto reset/ 25 psi</td>
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<td>H-Electrical/ 25 psi w/ 1/2” conduit connection</td>
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<td>H-Electrical/ 50 psi w/ 1/2” conduit connection</td>
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<tr>
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<td>E-Electrical/Visual 25 psi w/ wire leads</td>
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</tr>
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<td>E-Electrical/Visual 50 psi w/ wire leads</td>
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<td>E3-Electrical/Visual 25 psi w/ 3-pin connection</td>
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<tr>
<td>3</td>
<td>Bypass Valve</td>
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<td></td>
<td>25 psid assembly</td>
<td>928979</td>
<td>930507</td>
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<td></td>
<td>50 psid assembly</td>
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<tr>
<td></td>
<td>Not Shown:</td>
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<tr>
<td></td>
<td>No bypass plug</td>
<td>935744</td>
<td>927719</td>
<td>941747</td>
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<tr>
<td>7</td>
<td>Element (see model code page)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bowl</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Single length w/o drain</td>
<td>933931</td>
<td>934248</td>
<td>933936</td>
</tr>
<tr>
<td></td>
<td>Double length w/o drain</td>
<td>933932</td>
<td>934249</td>
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<tr>
<td></td>
<td>Single length w/ drain</td>
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<td>934250</td>
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<tr>
<td></td>
<td>Double length w/ drain</td>
<td>933934</td>
<td>934251</td>
<td>933939</td>
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<tr>
<td></td>
<td>Bowl and Dust Seal</td>
<td>921088</td>
<td>921088</td>
<td>921088</td>
</tr>
<tr>
<td></td>
<td>Buna N (Nitrile)</td>
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<td>928882</td>
<td>928882</td>
</tr>
<tr>
<td></td>
<td>Fluorocarbon</td>
<td>928882</td>
<td>928882</td>
<td>928882</td>
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<tr>
<td>10</td>
<td>Drain Plug - SAE-4</td>
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<td>921088</td>
<td>921088</td>
</tr>
<tr>
<td></td>
<td>Buna N (Nitrile)</td>
<td>928882</td>
<td>928882</td>
<td>928882</td>
</tr>
<tr>
<td></td>
<td>Fluorocarbon</td>
<td>928882</td>
<td>928882</td>
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</tr>
</tbody>
</table>
**Medium Pressure Filters**

**15/40/80CN Series**

**HOW TO ORDER:**
Select the desired symbol (in the correct position) to construct a model code.

**Example:**

<table>
<thead>
<tr>
<th>BOX 1</th>
<th>BOX 2</th>
<th>BOX 3</th>
<th>BOX 4</th>
<th>BOX 5</th>
<th>BOX 6</th>
<th>BOX 7</th>
<th>BOX 8</th>
<th>BOX 9</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>40CN</td>
<td>1</td>
<td>1OQ</td>
<td>M2</td>
<td>25</td>
<td>N4N4</td>
<td>1</td>
<td>Design number assigned by Parker</td>
</tr>
</tbody>
</table>

**BOX 1: Seals**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Buna (N) nitrile</td>
</tr>
<tr>
<td>E8</td>
<td>EPR</td>
</tr>
<tr>
<td>F3</td>
<td>Fluorocarbon</td>
</tr>
</tbody>
</table>

**BOX 2: Model Number**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>15CN</td>
<td>In-line Filter</td>
</tr>
<tr>
<td>40CN</td>
<td>In-line Filter</td>
</tr>
<tr>
<td>80CN</td>
<td>In-line Filter</td>
</tr>
</tbody>
</table>

**BOX 3: Element Length**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Single</td>
</tr>
<tr>
<td>2</td>
<td>Double</td>
</tr>
</tbody>
</table>

**BOX 4: Element Media**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1OQ</td>
<td>Cellulose</td>
</tr>
<tr>
<td>2OQ</td>
<td>Microglass III</td>
</tr>
<tr>
<td>1OQ</td>
<td>Microglass III</td>
</tr>
<tr>
<td>05Q</td>
<td>Microglass III</td>
</tr>
<tr>
<td>02Q</td>
<td>Microglass III</td>
</tr>
<tr>
<td>WR*</td>
<td>Water Removal</td>
</tr>
</tbody>
</table>

*Not available in 15CN

**BOX 5: Indicators**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M2</td>
<td>Visual/Auto reset</td>
</tr>
<tr>
<td>H</td>
<td>Electrical (w/½” npt conduit connection and wire leads)</td>
</tr>
<tr>
<td>H1</td>
<td>Electrical (w/½” npt conduit connection and wire leads)</td>
</tr>
<tr>
<td>E</td>
<td>Electrical/Visual (w/½” NPT conduit connection and wire leads)</td>
</tr>
<tr>
<td>E2</td>
<td>Electrical/Visual (DIN 43650 Hirschman style connection)</td>
</tr>
<tr>
<td>E3</td>
<td>Electrical/Visual (ANSI/B93.55M 3-Pin Brad Harrison style connection)</td>
</tr>
<tr>
<td>P</td>
<td>Indicator port plugged</td>
</tr>
<tr>
<td>N</td>
<td>No indicator port</td>
</tr>
</tbody>
</table>

**BOX 6: Bypass**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Pressure Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>25 PSI (1.7 bar) setting</td>
</tr>
<tr>
<td>50</td>
<td>50 PSI (3.5 bar) setting</td>
</tr>
</tbody>
</table>

If “no bypass” option (-11) and an indicator is selected, above symbols (25,50) denote indicator setting.

**BOX 7: Ports**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>15CN</td>
<td>½” NPT</td>
</tr>
<tr>
<td>C1C1</td>
<td>1” NPT</td>
</tr>
<tr>
<td>M4M4</td>
<td>SAE-12 staith thread</td>
</tr>
<tr>
<td>N4N4</td>
<td>SAE-16 staith thread</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>40CN</td>
<td>1½” NPT</td>
</tr>
<tr>
<td>E1E1</td>
<td>2” NPT</td>
</tr>
<tr>
<td>N4N4</td>
<td>SAE-16 staith thread</td>
</tr>
<tr>
<td>P4P4</td>
<td>SAE-24 staith thread</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>80CN</td>
<td>1½” NPT</td>
</tr>
<tr>
<td>E1E1</td>
<td>1½” NPT</td>
</tr>
<tr>
<td>F1F1</td>
<td>2” NPT</td>
</tr>
<tr>
<td>P4P4</td>
<td>SAE-24 staith thread</td>
</tr>
<tr>
<td>R4R4</td>
<td>SAE-32 staith thread</td>
</tr>
<tr>
<td>Y9Y9</td>
<td>Flange face, SAE-2”</td>
</tr>
</tbody>
</table>

**BOX 8: Options**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>None</td>
</tr>
<tr>
<td>11</td>
<td>No Bypass</td>
</tr>
<tr>
<td>19</td>
<td>Drain port on bowl</td>
</tr>
<tr>
<td>21</td>
<td>No bypass and drain port</td>
</tr>
</tbody>
</table>

**BOX 9: Design Number**

Applied to the filter by Parker Hydraulic Filter Division. Use the full model code, including the design number when ordering replacement parts, elements and cartridges.

**Replacement Elements (Fluorocarbon)**

<table>
<thead>
<tr>
<th>MEDIA</th>
<th>15CN-1</th>
<th>15CN-2</th>
<th>40CN-1</th>
<th>40CN-2</th>
<th>80CN-1</th>
<th>80CN-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>2OQ</td>
<td>930369Q</td>
<td>930370Q</td>
<td>930100Q</td>
<td>930119Q</td>
<td>929903Q</td>
<td>92997Q</td>
</tr>
<tr>
<td>1OQ</td>
<td>932612Q</td>
<td>932618Q</td>
<td>932651Q</td>
<td>932655Q</td>
<td>932661Q</td>
<td>932667Q</td>
</tr>
<tr>
<td>05Q</td>
<td>932611Q</td>
<td>932617Q</td>
<td>932650Q</td>
<td>932654Q</td>
<td>932660Q</td>
<td>932666Q</td>
</tr>
<tr>
<td>02Q</td>
<td>932610Q</td>
<td>932616Q</td>
<td>932649Q</td>
<td>932653Q</td>
<td>932659Q</td>
<td>932665Q</td>
</tr>
<tr>
<td>1OQ</td>
<td>9253585</td>
<td>925394</td>
<td>930096</td>
<td>930115</td>
<td>929912</td>
<td>929936</td>
</tr>
<tr>
<td>WR</td>
<td>N/A</td>
<td>N/A</td>
<td>931412</td>
<td>931414</td>
<td>931416</td>
<td>931418</td>
</tr>
<tr>
<td>74W</td>
<td>N/A</td>
<td>N/A</td>
<td>931317</td>
<td>931881</td>
<td>931885</td>
<td>931887</td>
</tr>
<tr>
<td>40W</td>
<td>N/A</td>
<td>N/A</td>
<td>930909</td>
<td>930111</td>
<td>929918</td>
<td>929942</td>
</tr>
</tbody>
</table>

Please note the bolded options reflect standard options with a reduced lead-time. Consult factory on all other lead-time options.