

# BCV Series

## Band Clamp Liquid Cartridge Filter Vessels

**The BCV Series multi-round band clamp cartridge vessels are economical solutions for industrial and commercial liquid filtration applications.** All vessels come with welded support/mounting legs and external poly-coat finish. A heavy duty self-centering band clamp with single O-Ring seal provides convenient cartridge access. Sizes are available that hold from 4 to 22 cartridges in standard 10, 20, 30 and 40 inch lengths. Flow capacities are determined by type of cartridge utilized and process conditions.



With all 304 or 316 stainless steel construction and various o-ring materials available, the BCV Series vessels are compatible with a wide range of fluids. The type of cartridges that can be used include: Wound, Melt Blown, Pleated, Carbon, Resin Bonded, Stainless Steel and others. In addition, universal mounting allows for installation of DOE, 222/Fin and 222/Cap cartridge configurations. Pressure Gages and Transmitters are available with other accessories. Duplex and packaged systems are also available.

### Benefits

- Fast and Easy Cartridge Change-Outs**
- Wide Fluid Compatibility**
- Withstands Harsh Environments**
- Compatible With Various Types Of Cartridges**
- Skid/Packaged Systems Available**

### Applications

- Food & Beverage**
- Potable and Process Water**
- Chemical Processing**
- Energy and Power Industries**
- Various Process Manufacturing**

## Specifications

### Construction Materials

Vessel .....304 or 316 Stainless Steel  
 Internal .....316 SST Cups, Springs, Compression Plates and V-Posts  
 O-Ring .....Standard: Buna-N, Optional: Silicone, Viton, EPR and Teflon

**Pressure/Temperature Rating** .....150 psi (10 bar) @ 300F (149C) Max, dependent on O-Ring Material

### Process Connections

Side Inlet/Outlet, standard

2" Male National Pipe Thread (MNPT),  
 standard on 4, 5, and 7 cartridge vessels

2", 3" and 4" Raised Face (RF) Flange

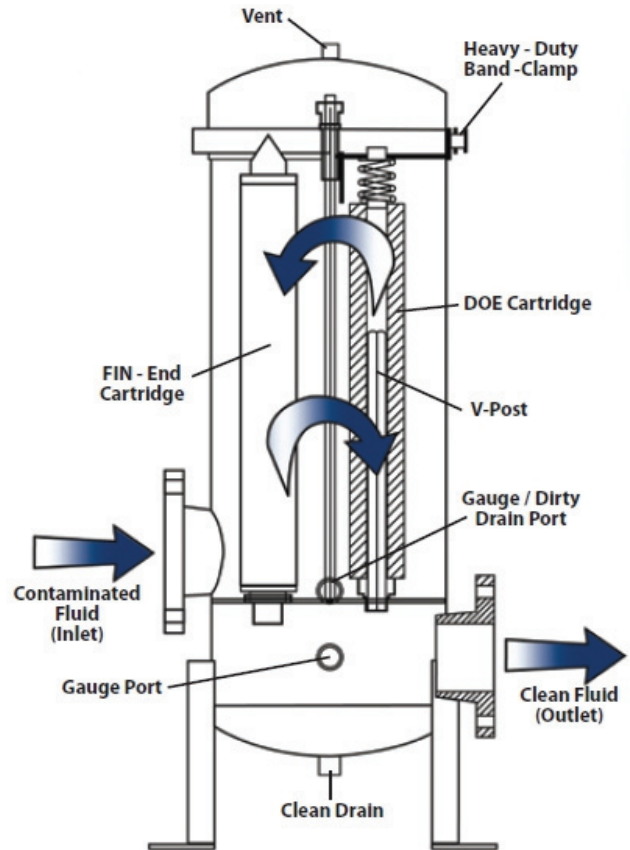
Tri-Clamp (TC) Sanitary

Two (2) Gauge Ports: 1/2" fnpt

Drain Port: 1/2" fnpt

Vent Port: 1/2" fnpt

Note: Delta Pure offers a wide range of filter cartridges for the BCV vessels. Consult factory for application assistance and cartridge selection.



## Model Code/Ordering Information

| VESSEL TYPE  | NUMBER OF CARTRIDGES | LENGTH   | INLET/OUTLET SIZE | INLET/OUTLET TYPE   | MATERIAL          | O-RING  |
|--|----------------------|----------|-------------------|---|-------------------|---|
| <b>BCV -</b><br>Delta Pure<br>Band Clamp<br>Vessel | 4                    | 10 - 10" | 2 - 2"            | <b>B -</b> MNTP<br><b>F -</b> 150LB RF Flange<br><b>S -</b> TC Sanitary | 4 - 304 Stainless | <b>Blank -</b> Buna<br><b>S -</b> Silicone<br><b>V -</b> Viton<br><b>E -</b> EPR<br><b>T -</b> Teflon |
|  | 5                    | 20 - 20" | 3 - 3"            |   | 6 - 316 Stainless |   |
|  | 7                    | 30 - 30" | 4 - 4"            |   |                   |   |
|  | 12*                  | 40 - 40" |                   |   |                   |   |
|  | 22*                  |          |                   |   |                   |   |

**EXAMPLE: P/N: BCV-7-30-2-F-4, 5 cartridge x 30", 2" 150lb Flanges, 304 SST, Buna O-Rings**

**\*Note: 12 and 22 Round only available with 30" and 40" length cartridges**