

CARTEN®

High Performance Valves & Flow Solutions

Point of Use Valves (BPU Series)

Sterile, Aseptic and Sanitary Valves for Critical Process Systems



For Biotechnological, Pharmaceutical, Food and Beverage Process Systems

WHY CHOOSE THE CARTEN BPU SERIES?

Point of Use valves are an essential valve offering in the Biotech, Pharma, Food and Beverage industries. Carten's BPU Series is used in many processes for draining, diverting, sampling from and transferring to alternative systems with minimum impact on critical process systems.

The BPU Series design goes beyond the standard goal of providing the cleanest, safest point of use valve on the market. Featuring the same three part design as Carten's BTV Series, Carten's Point of Use valve boasts the same superior drainability and maintenance friendly design. It has no hold up volume or pooling, and can be provided with an optional configuration for sample control.



This innovative design ensures a high flow capacity suitable for bioreactors, fermenters, process lines, WFI systems, formulation tanks, sterile holding tanks and more. The BPU Series allows redirection of outlet over 360-degrees at any time and allows change-out to other valve configurations at any time to accommodate late-stage engineering changes or operating facility process changes.

BPU Series Point of Use Valves

Product Features

- Lowest hold up volume in the industry
- Fully Cleanable/drainable
- Lightweight Design- Compare to ZDT
- Same High Flow as Carten TOV Valve
- 360-degree- Multiple Orientation
- Ease of Maintenance- Quick-release clamp topworks
- SIP/CIP port available

Typical Applications

- Formulation Tanks
- Sterile Holding Tanks
- General Purpose Storage Tanks
- Bioreactors/Fermentors
- WFI Systems (Storage Tanks, POU sites)
- Process Lines

TECHNICAL SPECIFICATIONS

Nominal Size	DN15	DN20	DN25	DN40	DN50	DN80	DN100	DN150	
End Connections	Triclamp (Other options available on request)								
Body Material	ASTM A479/A276 316L (S31603)								
Bonnet Material	ASTM A479/A276 316L (S31603)								
Diaphragm Material	EPDM, Silicon or Viton								
Pressure Rating	10 Bar CWP150 (150psi)								
Operating Temperature Range	0°C to 135°C (32°F to 275°F)								
Surface Finish	SF0-SF6								
Operating Modes	Pneumatic and Manual								
Quality and Compliance	EN 10204 3.1 Certified Materials Latest Edition of the US Pharmacopeia Class VI Certified as per the Pressure Equipment Directive 97/23/EC								
Diaphragm Material	Steam	Liquid Media							
		Min			Max				
EPDM	Constant 135°C (275°F)	-10°C (14°F)			90°C (194°F)				

CARTEN'S SIP TEST RIG



An Asset in Carten's Research and Development Centre

Carten Ireland have on-site thermal cycling test capabilities. Our thermal cycling test module has programmable SIP features enabling Carten to perform and replicate specific process conditions. Carten collaborates with our customers to provide detailed process data for valve performance under customer process conditions. This involves testing the sealing structure of the diaphragm in our Carten's Diaphragm, Tank Outlet and Ball Valves. Through this process the media, the cycle number and deviation can be independently stipulated. For further details on Carten's Research and Development facility and on testing capabilities for our customers contact sales@cartencontrols.com

OTHER PRODUCTS AVAILABLE

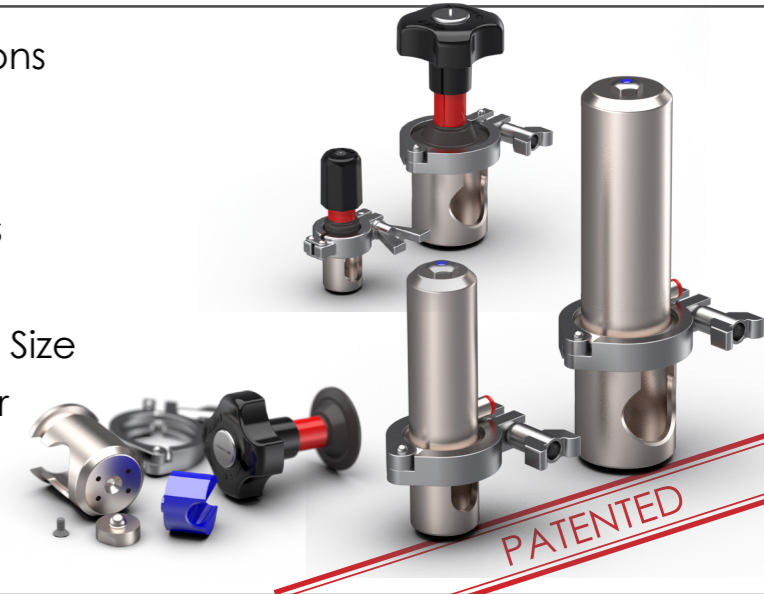
BNW SERIES DIAPHRAGM VALVES



- ASME BPE Compliant Design and Dimensions
- SIP500 Rated Life Durability (ASME BPE rating)
- No Re-torquing Required
- Compact, Light Weight Stainless Steel Top Works
- Reduced Polymer Cold Flow Sealing Design
- Reduced TCO for Process Systems
- Range of Instrumentation Available
- 3-Way Zero Dead T (ZDT) leg configurations
- SIP & CIP Capability

BPV SERIES PINCH VALVES

- Quick Release and Control Versions
- Reusable Highly Durable Valve
- Interchangeable Fittings
- For Use with Multiple Compounds
- For Use with Multiple Brands
- Rapid Changeout of Tubing, Line Size
- Lightweight Handwheel/Actuator
- No Particulate Generation
- Instrumentation Ready



BSV SERIES SAMPLING VALVES

- Drainable even from inclined ports
- Retrofits existing sensor ports
- Cleans and sterilises in place
- Install or move in seconds, maintenance friendly
- Sanitary, dead space free design



BSP SERIES SIPTUBE VALVES

- Cleanable- and Sterilisable In-Place (CIP/SIP) while in operation
- Install in existing ports
- Simplistic design for reliability and fast, easy maintenance
- Body lengths up to 16 inches for sampling deep within the process system
- Suitable for process inoculating, media feeding and sampling
- 316L Stainless Steel construction
- Natural body insulation protects processes during sterilisation



BTV SERIES TANK OUTLET VALVES



- No hold up volume or pooling
- Self Draining at any orientation
- Higher Cv/ Superior Flow
- SIP/CIP Port
- Cost Efficient
- Maintenance Friendly
- No Delivery Delays -Weld Component Sent in Advance

SBV SERIES SANITARY BALL VALVES

- In-Line Maintenance
- Blow-out Proof Stem
- Cavity and Non-Cavity Filled Options
- 2-Way and 3-Way Configurations
- Bidirectional Sealing
- Anti-static features (on request)



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Carten Controls and Fujikin Deutschland are members of the Fujikin Carp Group (FCG) with Headquarters in Osaka Japan.

THE CARTEN-FUJIKIN RANGE



Bellows Valves

Ball Valves

Check Valves

Diaphragm Valves

Tank Valves

Sampling Valves

Hybrid Single Use Pinch Valves

Ceramic Valves

Integrated Gas Sticks and Systems