

SPECIFICATIONS

Description	Pharmenta Point of Use Valves (BPU Series)					
Nominal Size	DN15	DN20	DN25	DN40	DN50	DN8
End connection	Triclamp (Other options available on request)					
Body Material	ASTM A276/A479 316L (S31603)					
Bonnet Material	ASTM A276/A479 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	Manual and Pneumatic					
Quality and Compliance	EN 10204 3.1 Certified Materials Latest Edition of the US Pharmacopeia Class VI Certified as per 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)

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ABOUT PHARMENTA

Pharmenta, Inc. was founded in 2003 and is headquartered in Cincinnati, OH. Pharmenta is committed to the pursuit of quality and excellence in the development, production and manufacturing of engineered diaphragm valves and specialty equipment for sanitary processing. Pharmenta stands out for its fresh solutions to age-old industry problems. Each one of Pharmenta's product lines is the result of careful study of real industry problems and requirements, and a passion for finding an optimal solution.

COMPREHENSIVE TESTING

Pharmenta valves are rigorously tested to industry standards, including SIP thermal cycling, CIP flow testing, and verification of drainability and fluid control. Additionally, valves can be tested to custom specifications.

GLOBAL NETWORK

Pharmenta's global network of distribution, manufacturing and engineering partners ensures fast time to market, and responsiveness to your purchase and support needs.

ENGINEERING SERVICES

Pharmenta supports its customers through engineering services including modular design, flow analysis and calculations based on customer request.

**PHARMENTA POINT OF USE VALVES
FOR ASEPTIC AND OTHER CRITICAL PROCESS APPLICATIONS**



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An Improved Zero Deadleg

The Pharmenta Point of Use valve is a hygienic radial diaphragm valve designed to deliver exceptionally high flow capacity performance in filling operations. Features of this true zero deadleg valve design include:

1. Very high flow capacity.
2. Diaphragm flush with mainline pipe ID
3. Full gravity drainability with no hold up.
4. Superior diaphragm durability through a compact high-cycle-life radial diaphragm (in FDA USP Class VI material).
4. Practical design input from piping installers that simplify and speed up off-site and on-site piping system assembly and installation.

Engineered for Optimal Flow and Drainability

The Pharmenta Point of Use valve design features a compact diaphragm anchored to the top of a pedestal that blends seamlessly with the valve floor, walls and outlet to form a smoothly flowing funnel optimized for flow capacity and gravity drainability. The result:

- Top diaphragm valve flow capabilities
- Above-the-floor diaphragm seating with flow pattern where material flows down and away from the diaphragm seat instead of settling on it, as is the case with other diaphragm valves.
- Complete gravity drainage, with no fluid hold up or pooling.
- Short (CIP) clean time with reduced CIP solution requirements
- Robust, compact state-of-the-art radial diaphragm for extended service life.
- Optional CIP/SIP port or valve integration capable.

INDUSTRIES

- Biotech
- Pharmaceutical
- Food & Beverage
- Chemical

TYPICAL APPLICATIONS

- Critical utilities
- Piping lines
- Process lines
- Bioreactor and fermentor skid lines
- Point of use sites

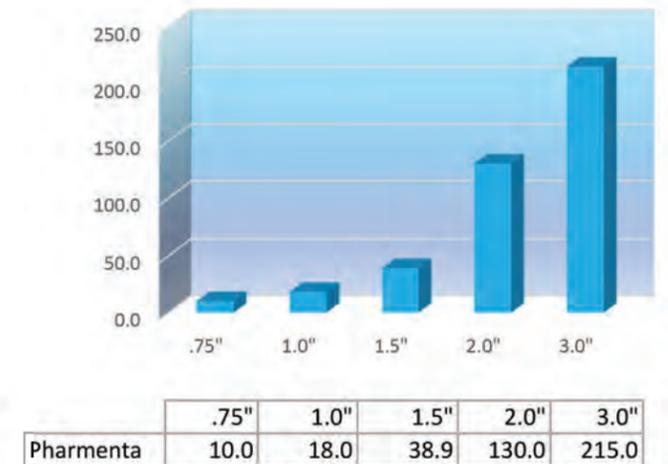


Two-Part Valve Body Approach--Practical Design Benefits

The Pharmenta Point of Use valve features a two part valve body design in which the valve's section of main -line pipe is a separate part of the valve. There are several benefits to this approach:

- During piping system weld-up or assembly, only the tops of the valve are necessary, not the entire valve, as is required with other POU valves.
- Hanging piping systems when only the valve tops are incorporated is much lighter task than when the full valve assembly is attached as happens with other designs.
- Because the top and bottom of the Pharmenta POU valve body are united with a sanitary flange, the lower half can rotate 360° relative to the upper to align with mating connections and realign if required.

Pharmenta Point of Use Valve Flow Rates (CV per GPM)



	.75"	1.0"	1.5"	2.0"	3.0"
Pharmenta	10.0	18.0	38.9	130.0	215.0