UBC Series Ultra-High Purity TEE Block Valves





PRODUCT APPLICATIONS

The compact UBC range of Carten TEE block bellows valves is intended for bulk gas distribution service where containment, cleanliness and purity are of the utmost importance. Our compact valve design minimises the space consideration over the conventional isolation valve and weld TEE option. Applications for this valve include:

- ∠ Ultra-high purity gas system distribution valves
- ✓ Point of use service or hook up applications
- Suitable for inert and most toxic gases

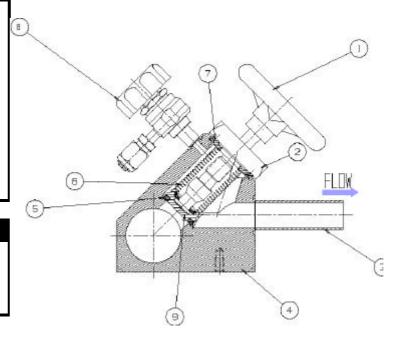
PRODUCT FEATURES

- High Performance and Compact Design
- Ultra-High Purity Stainless Steel/CTFE Gas Containment
- Minimal CTFE volume in the seat design
- Inboard and across the seat leak tested with 100% helium
- Purge ports and purge valves are integral to the valve
- Electropolished to 10Ra on the internal wetted area
- Purged and Final packaged in CLASS 1 Cleanroom. Double-bag packaging with n2 Gas supplied from liquid source

CONSTRUCTION MATERIALS

- 316L Stainless Steel Body and Tube Extensions
- Kel-F (CTFE) Seat Insert
- Easy Grip Handle for Open/Close Operation

UBC Series - Cut Section View



UBC Series - Technical Data

	Wetted Areas	316 L Stainless Steel CTFE (Kel-F)		
CONSTRUCTION MATERIAL	Non-Wetted	316 Stainless Steel Nickel Foil Seal Gasket 303 Stainless Steel Viton 'O' Ring		
TEMPERATURE RANGE	UBC Series	-22°F (-30°C) to 180°F (82°C)		
OPERATING PRESSURE	UBC Series	Vacuum to 375psi (25Bar)		
FLOW COEFFICIENT (Cv)	UBC1000-750 UBC1500-750 UBC1000-1000 UBC1500-1000 UBC2000-1000 UBC2000-1500 UBC3000-1500 UBC3000-1500	10.20 10.20 14.30 14.30 14.30 16.60 14.30 16.60		

HELIUM LEAK TEST DATA	Inboard/Across the Seat	1x10 ⁻¹⁰ scc/s He max. 1x10 ⁻⁹ scc/s He max.	Rated Std. Production	
	Helium Leak Test Performed with 100% Helium			
CLEANLINESS/ PACKAGING	Assembled and tested in CLASS 10 cleanroom. Purge and final packaged in Class 1 cleanroom. Double-bag packaging (2 mil nylon inner bag, 6 mil polyethylene outer bag) with N_2 gas environment supplied from liquid source.			
STANDARD FINISH	Electropolished to 10 Ra (0.25 µm) on all wetted surfaces			
OPTIONS	Surface Finish Options: 5Ra, 15Ra, 20Ra, 30Ra, etc. Particle, Moisture, THC and O ₂ Testing Available Handwheel Colour Options Available on Request Air Actuated Operation Available on All Sizes Optional Branch Connections – VCR, Tube Stub, DW Cap Optional Seat Material Available for Higher Temperature Applications			

Specifications subject to change without notice

Component Selection

The total system design must be considered when selecting a valve to ensure performance. Valve application, materials compatibility, installation, operation and maintenance are the responsibility of the system design engineer.

NOTE 1: Dimensional drawings shown are for reference only. Please contact the manufacturer for customer drawings showing updated dimensions

Carten Website: www.cartencontrols.com

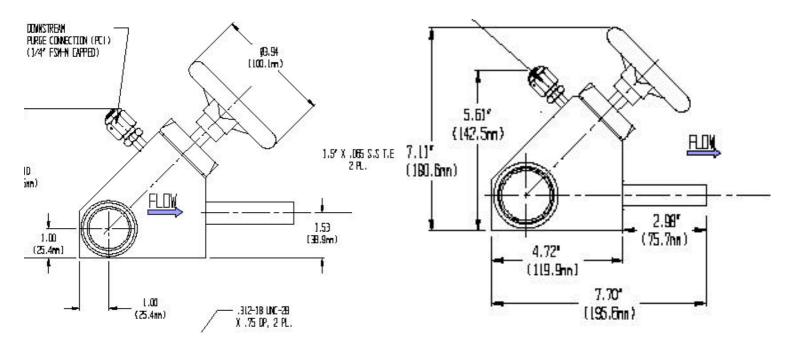
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VALVE DIMENSIONS

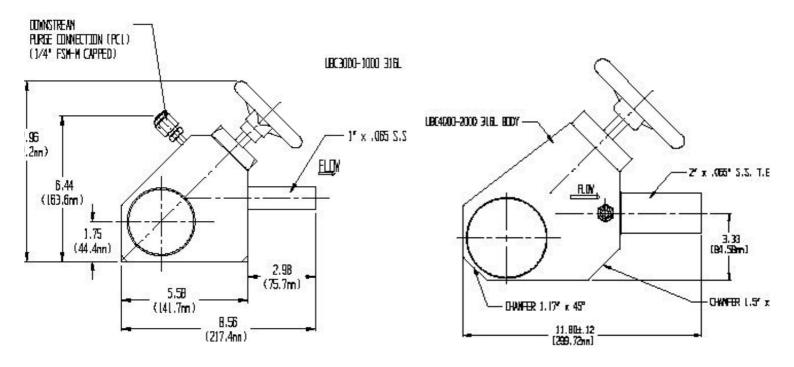
UBC1500-065-1000-065-PC1

UBC2000-065-1000-065-PC1



UBC3000-065-1000-065-PC1

UBC4000-065-2000-065-PC1



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