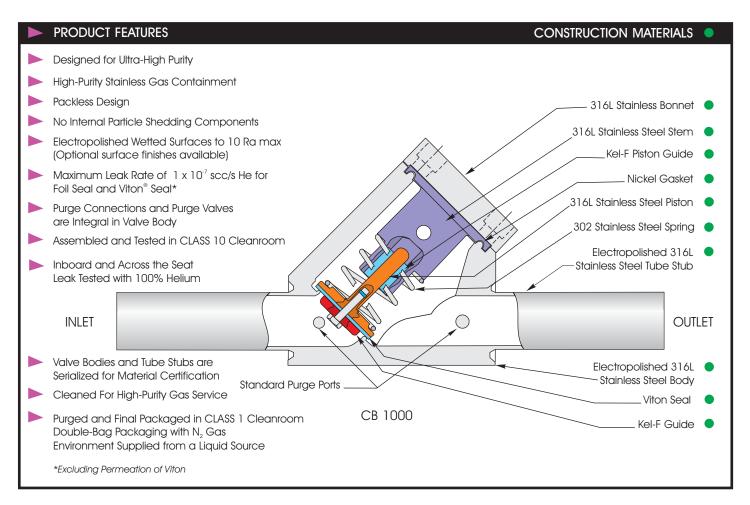
CB SERIES Ultra-High Purity Check Valves



PRODUCT APPLICATION

This CB stainless steel check valve series is intended for bulk gas distribution service where containment, cleanliness and purity are of utmost importance. Applications for this check valve are:

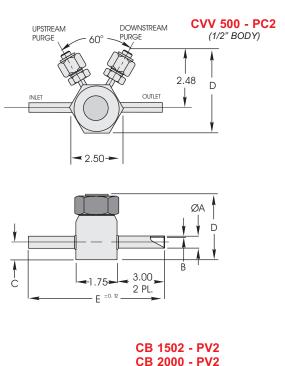
- High purity gas service for the semiconductor industry
- Prevents undesired reverse flow in high-purity gas systems
- Superior containment and cleanliness for your most critical valve applications
- Suitable for inert and most toxic gases
- Most suitable for isolation applications

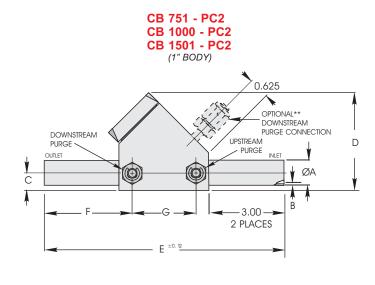


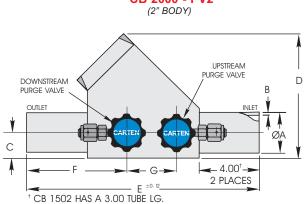
CVV and CB SERIES - Technical Data

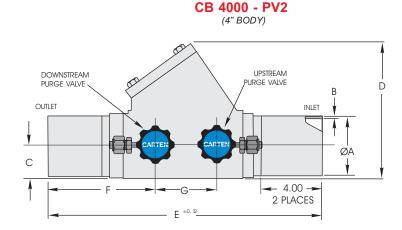
	Wetted Areas	316L Stainless Steel, Nickel, Viton, CTFE			
CONSTRUCTION MATERIAL	Non-Wetted Areas	316L, Nickel Plated Brass (CVV500)			
MAXIMUM OPERATING PRESSURE	CB Series	Vacuum to 250 psi (17 BAR)			
Maximum Operating temperature	CB Series	250° F (121°C)			
	MODEL	C _v	CP	PFO	
	CW 500	1.93	1.65 psig	4.3 psig	
FLOW COEFFICIENT (C,)*	CB 751	10.96	1.6 psig	12 psig	
. 2011 002111012111 (0)	CB 1000	15.21	1.6 psig	12 psig	
CRACKING PRESSURE (CP)	CB 1501	16.73	1.6 psig	12 psig	
` '	CB 1502	42.43	0.6 psig	6 psig	
PRESSURE TO FULL OPEN (PFO)	CB 2000	51.26	0.6 psig	6 psig	
	CB 3004	158.8	0.1 psig	2 psig	
*Full open without spring	CB 4000	165.5	0.1 psig	2 psig	

HELIUM LEAK TEST	Inboard/across the seat	1x10 ⁻⁷ scc/s He max.	Rated			
		1x10 ⁻⁶ scc/s He max.	Std. Production			
	Helium test performed with 100% helium					
CLEANLINESS	Assembled and tested in CLASS 10 cleanroom. Purged and Final packaged in CLASS 1 cleanroom. Double-bag packaging (2 mil nylon inner bag, 6 mil polyethelyne outer bag) with N_2 gas environment supplied from a liquid source.					
STANDARD FINISH	Electropolished to 10 Ra (0.25 Ra m) on all wetted surfaces					
OPTIONS	Surface finish - 5 Ra Particle/Moisture testing SEM and ESCA testing, Auger analysis Single purge valve connection Tube extension length or fittings Material: VAR; VIM / VAR					









CB 3004 - PV2

Standard purge connections and purge valve sizes are 1/4".

MODEL NO.	A*	B*	С	D	Е	F	G	Body Width	Approx. Weight
CW 500	0.500	0.049	0.715 (18.1mm)	2.75 (69.8mm)	7.83 (198.9mm)	N/A	N/A	2.00 (50.8mm)	2.25 Lb (1.02 Kg)
CB 751	0.750	0.065	0.75 (19.05mm)	3.94 (100.1mm)	11.55 (293.4mm)	4.53 (115.1mm)	2.50 (63.5mm)	2.25 (57.2mm)	5.9 Lb (2.7 Kg)
CB 1000	1.000	0.065	0.75 (19.05mm)	3.94 (100.1mm)	9.53 (242.1mm)	3.52 (89.4mm)	2.50 (63.5mm)	2.25 (57.2mm)	5.9 Lb (2.7 Kg)
CB 1501	1.500	0.065	0.75 (19.05mm)	3.94 (100.1mm)	13.45 (341.6mm)	5.48 (139.2mm)	2.50 (63.5mm)	2.25 (57.2mm)	5.9 Lb (2.7 Kg)
CB 1502	1.500	0.065	1.25 (31.75mm)	6.28 (159.5mm)	15.42 (391.7mm)	5.02 (127.5mm)	2.50 (63.5mm)	3.38 (85.8mm)	19.0 Lb (8.6 Kg)
CB 2000	2.000	0.065	1.25 (31.75mm)	6.28 (159.5mm)	13.50 (342.9mm)	6.02 (152.9mm)	2.50 (63.5mm)	3.38 (85.8mm)	19.0 Lb (8.6 Kg)
CB 3004	3.000	0.065	2.12 (53.8mm)	8.97 (227.8mm)	25.62 (650.7mm)	10.43 (264.9mm)	4.25 (107.9mm)	5.12 (130.0mm)	46.5Lb (21.1 Kg)
CB 4000	4.000	0.083	2.12 (53.8mm)	8.97 (227.8mm)	17.90 (454.7mm)	6.57 (166.9mm)	4.25 (107.9mm)	5.12 (130.0mm)	46.5 Lb (21.1Kg)

 $^{^\}star$ Metric tube sizes and wall thicknesses are available upon request. Note 1: All tolerances are ± 0.06 in. unless otherwise stated.

Note 2: Dimensional drawings shown are for reference only. Please contact the manufacturer for customer drawings showing updated dimensions.