

# 'Apollo' Valves

## SUBMITTAL SHEET

### Model CVB

61-100/200 Series In-Line Check Valve



61-100



61-200

Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO Number:	
Representative:	
Wholesale Distributor:	



### DESCRIPTION

The Apollo® CVB Ball Cone® check valves offer reliable protection against reverse flow and exceptional resistance to chemicals and corrosion using proven ASTM quality materials made in the USA.

### FEATURES

- FNPT and MNPT Inlet Option
- Spring Actuated
- Bronze Sizes 1/4" to 3"
- Tight Shut-off With Liquid Media
- Flow Straight-through Design Efficiency
- RPTFE Ball Cone® for Chemical Resistance
- 100% factory tested
- Made in the USA - ARRA Compliant

### APPLICATIONS

Well-suited for a broad range of applications, including saturated steam and chemical service. May be installed in both horizontal and vertical flow with upward flow. Do not use for reciprocating air compressor service.

### PERFORMANCE RATING

- Max Pressure: 400 psi (2758 kPa) @ 100°F  
125 psi (862 kPa) Steam @ 350°F
- Max Temp: 406°F (176.6°C)

### APPROVALS

- Canadian Reg. No: 0C11218.5C

### OPTIONS & SIZES

- MNPT x FNPT (61-200 Series)
- Soft Seat (61-500 Series)
- Solder x Solder (61-600 Series soft seat)
- (-A1) 0 psig Cracking Pressure (No Spring)
- (-E05) 5 psig Cracking Pressure (1/4"-1" Only)
- (-E10) 10 psig Cracking Pressure (1/4"-1" Only)
- (-57) Oxygen Cleaned
- (-17) Satin Chrome Plate Finish
- BSPP Threads (1/2" - 1" only)
- 61LF-100 Lead Free

Note: Not all combinations available. Call customer service for more details.

Note: Model CVBM (61-200 Series) is a MNPT x FNPT connection.

For liquids the flow coefficient - Cv - expresses the flow capacity in gallons per minute (GPM) of 60oF water with a pressure drop of 1 psi (lb/in<sup>2</sup>).

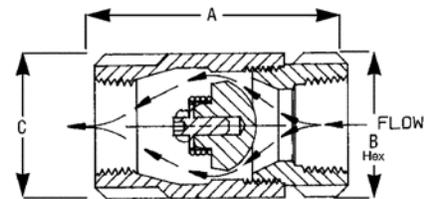
Kv - the flow of water with temperature ranging 5 - 30 oC through a valve in cubic meters per hour (m<sup>3</sup>/h) with a pressure drop of 1 bar

### PRECAUTIONARY NOTE:

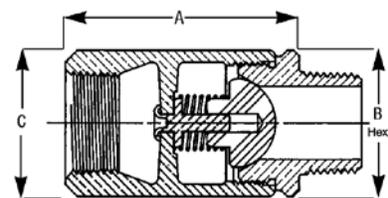
Not recommended for applications which may induce pulsation or repetitive vibration. See Installation Manual for details.

### STANDARD MATERIALS LIST

Part Name	Material
Body	Cast Bronze C84400
Retainer	ASTM B16 Brass
Spring	AISI 316 Stainless Steel
Ball Cone Check	RPTFE, 15% Glass Filled
Stem	ASTM B16 Brass



61-100



61-200

### DIMENSIONS

Model Number	Bronze FNPT x FNPT	Bronze MNPT x FNPT	Size (in.)	(61-200) A MNPT	Dimensions (in and mm)						Cv	Kv	Wt. (lbs.)	Wt. (kg.)
					A	A (mm)	B	B (mm)	C	C (mm)				
CVB14	61-101-01	61-201-01	1/4"	2.38	2.06	52.32	1.12	28.45	1.12	28.45	.85	.05	.38	.17
CVB38	61-102-01	61-202-01	3/8"	2.38	2.12	53.85	1.12	28.45	1.12	28.45	1.21	.08	.38	.17
CVB12	61-103-01	61-203-01	1/2"	2.57	2.31	58.67	1.12	28.45	1.12	28.45	1.40	.09	.38	.17
CVB34	61-104-01	61-204-01	3/4"	3.09	2.87	72.90	2.37	60.20	1.50	38.10	3.53	.22	.75	.34
CVB1	61-105-01	61-205-01	1"	3.85	3.50	88.90	1.75	44.45	1.93	49.02	6.00	.38	1.45	.66
CVB114	61-106-01	61-206-01	1-1/4"	4.44	4.19	106.17	2.12	53.85	2.37	60.20	44	2.77	2.75	1.25
CVB112	61-107-01	61-207-01	1-1/2"	5.16	4.94	125.48	2.50	63.50	2.81	71.37	65	4.10	3.94	1.79
CVB2	61-108-01	61-208-01	2"	6.47	6.00	152.40	3.00	76.20	3.68	93.47	81	5.11	6.30	2.85
CVB212	61-109-01	-	2-1/2"	-	7.12	177.8	3.87	98.29	4.50	114.30	175	11.04	14.0	6.35
CVB3	61-100-01	-	3"	-	8.13	206.25	5.31	134.87	4.63	117.60	265	16.71	16.6	7.52

Apollo Valves, Manufactured by **Conbraco Industries, Inc.**  
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