



61-100



61-200



Job Name:	
Job Location:	
Engineer:	
Contractor:	
Tag:	
PO#:	
Rep:	
Wholesale Dist.:	

DESCRIPTION

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

- CRN: OC11218.5C

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/in2).

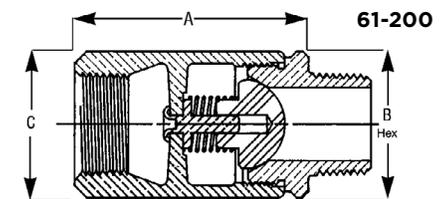
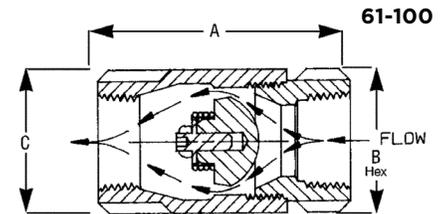
Kv - the flow of water with temperature ranging 5 - 30 oC through a valve in cubic meters per hour (m3/h) with a pressure drop of 1 bar

Precautionary Note:

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

STANDARD MATERIALS LIST

BODY	Cast Bronze C84400
RETAINER	ASTM B16 Brass
SPRING	AISI 316 Stainless Steel
BALL CONE CHECK	RPTFE, 15% Glass Filled
STEM	ASTM B16 Brass



DIMENSIONS

MODEL NUMBER	BRONZE FNPT X FNPT	BRONZE MNPT X FNPT	SIZE (IN.)	(61-200) A MNPT	DIMENSIONS (IN AND MM)						CV	KV	WT. (LB.)	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