



# SWING CHECK VALVE

CVA SERIES

# API 6D SWING CHECK VALVE

## CVA SERIES

### SPECIFICATIONS

- Sizes 2" – 24"
- ANSI Class 150 – 1500
- Full Port
- Material options include Carbon Steel, Low Temp Carbon Steel, and Stainless Steel
- API 6D Monogrammed

### BENEFITS

- Full opening - Piggable
- Suitable for horizontal or vertical flow up applications
- Inline repairable for ease of maintenance
- 316 Stainless Steel clapper material is standard
- Conforms to NACE MR0175/ISO 15156

### STANDARDS

- Design/Materials: API 6D 24th Edition, ASME B16.34
- End to End: ASME B16.10
- Flanged End: ASME B16.5
- Fire Safe: API 6FD
- Testing: API 598/API 6D, CSA Z245.15-17
- Pressure-Temperature: ASME B16.34



### HOW TO ORDER

Example: A 2", Class 150, API 6D Swing Check Valve with Raised Face Flanged End Connections, Carbon Steel Body and Cover, Stainless Steel Clapper and HNBR 90 Seals is written as CVA-020-11-ACBH.

<b>A</b>	<b>B</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>
<b>CVA</b>	<b>020</b>	<b>1</b>	<b>1</b>	<b>A</b>	<b>C</b>	<b>B</b>	<b>H</b>

<b>A</b>	<b>Valve Type</b>
<b>CVA</b>	API 6D Swing Check Valve

<b>B</b>	<b>Size</b>	
	<b>Inches</b>	<b>DN</b>
<b>020</b>	2"	50
<b>030</b>	3"	80
<b>040</b>	4"	100
<b>060</b>	6"	150
<b>080</b>	8"	200
<b>100</b>	10"	250
<b>120</b>	12"	300
<b>160</b>	16"	400
<b>200</b>	20"	500
<b>240</b>	24"	600

<b>C</b>	<b>Pressure Class</b>
<b>1</b>	Class 150
<b>2</b>	Class 300
<b>3</b>	Class 600
<b>4</b>	Class 900
<b>5</b>	Class 1500

<b>D</b>	<b>End Connection</b>
<b>1</b>	Raised Face Flange
<b>2</b>	Ring Type Joint Flange
<b>3</b>	Buttweld

<b>E</b>	<b>Body Material</b>	
<b>A</b>	Carbon Steel	ASTM A216 WCB
<b>K</b>	Low Temp Carbon Steel	ASTM A352 LCC
<b>S</b>	Stainless Steel	ASTM A351 CF8M

<b>F</b>	<b>Cover Material</b>	
<b>C</b>	Carbon Steel	ASTM A105
<b>K</b>	Low Temp Carbon Steel	ASTM A350 LF2
<b>S</b>	Stainless Steel	ASTM A182 F316

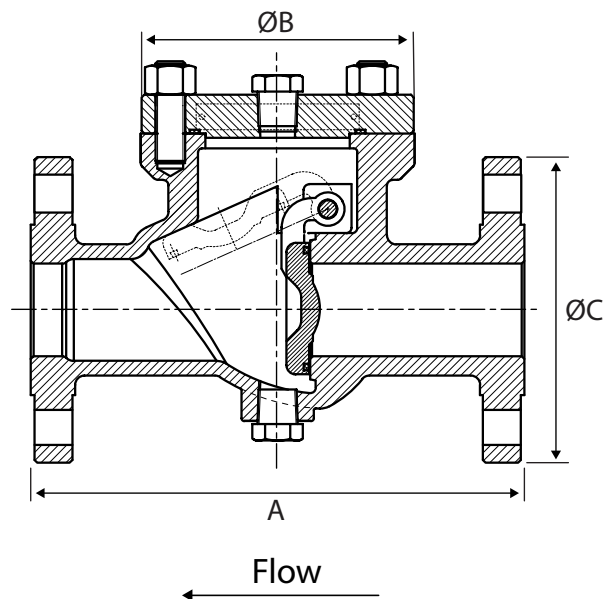
<b>G</b>	<b>Clapper Material</b>	
<b>B</b>	Stainless Steel	ASTM A351 CF8M

<b>H</b>	<b>Seal Material</b>	
<b>H</b>	HNBR 90	
<b>V</b>	Viton® GLT 90	

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## DIMENSIONS

Class	Nominal Size	Dimensions (in)			Approx. Weight (lb)
		A	ØB	ØC	
150	2"	8.00	5.67	6.00	29
	3"	9.50	6.57	7.50	46
	4"	11.50	7.91	9.00	74
	6"	14.00	9.84	11.00	111
	8"	19.50	12.20	13.50	204
	10"	24.50	14.57	16.00	329
	12"	27.50	17.17	19.00	507
	16"	34.00	21.85	23.50	929
	20"	38.50	25.90	27.50	1415
	24"	51.00	31.50	32.00	2335
300	2"	10.50	5.83	6.50	39
	3"	12.50	6.97	8.25	67
	4"	14.00	8.11	10.00	103
	6"	17.50	10.24	12.50	178
	8"	21.00	12.91	15.00	330
	10"	24.50	15.20	17.50	498
	12"	28.00	18.11	20.50	770
	16"	34.00	23.00	25.50	1413
	20"	40.00	26.57	30.50	2132
	24"	53.00	33.46	36.00	2335
600	2"	11.50	6.09	6.50	48
	3"	14.00	7.80	8.25	91
	4"	17.00	8.94	10.75	153
	6"	22.00	10.83	14.00	308
	8"	26.00	14.49	16.50	578
	10"	31.00	17.17	20.00	927
	12"	33.00	19.69	22.00	1279
	16"	39.00	24.21	27.00	2245
	20"	47.00	29.53	32.00	3861
	24"	55.00	36.22	37.00	6423
900	2"	14.50	6.22	8.50	76
	3"	15.00	7.80	9.50	119
	4"	18.00	9.72	11.50	213
	6"	24.00	12.21	15.00	437
1500	2"	14.50	7.87	8.50	111
	3"	18.50	9.84	10.50	208
	4"	21.50	11.38	12.25	347
	6"	27.75	14.57	15.50	835



## TEMPERATURE LIMITS

Material Temperature Limits						
	Material	Specification	Fahrenheit (°F)		Celsius (°C)	
			Min.	Max.	Min.	Max.
Body	Carbon Steel	ASTM A216 WCB	-20	800	-29	427
	Low Temp Carbon Steel	ASTM A352 LCC	-50	650	-46	343
	Stainless Steel	ASTM A351 CF8M	-425	1500	-254	816
Seal	HNBR 90	HNBR 90	-50	302	-46	150
	Viton® GLT 90	Viton® GLT 90	-50	392	-46	200

Standard valve configurations use seals compatible with temperatures down to -40°F (-40°C).



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