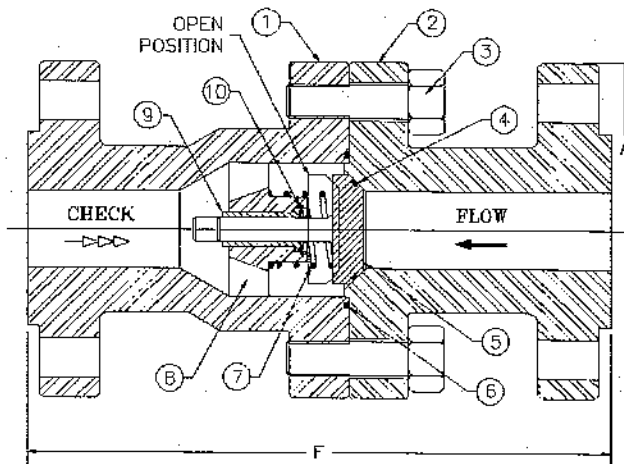


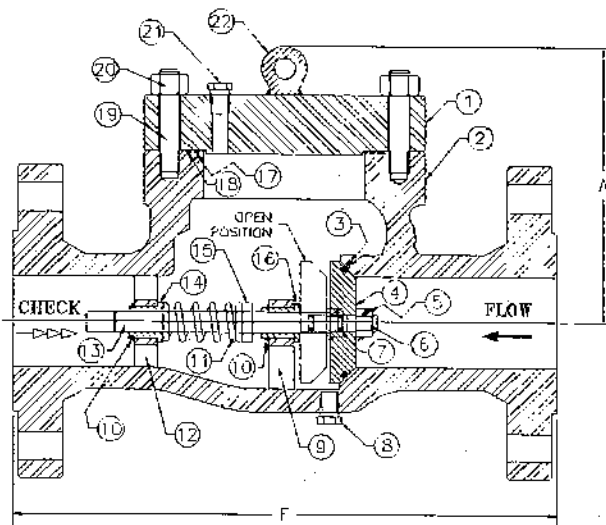
**Piston Check Valve - Fig. P-10**



**2" and 3" Piston Check Valves**

No.	Part	Material
1	Body	Carbon / Low Alloy Steel <sup>(1)</sup>
2	Body (seat end)	Carbon / Low Alloy Steel <sup>(1)</sup>
3	Bolts	Low Alloy Steel
4	Piston Seal	Nitrile <sup>(2)</sup>
5	Piston	Carbon / Low Alloy Steel <sup>(1)</sup>
6	Body Seal	Nitrile <sup>(2)</sup>
7	Spring	Spring Steel
8	Piston Guide	Carbon Steel
9	Piston Guide Bushing	Delrin
10	Retaining Ring	Carbon Steel

*Information is for reference only.  
For critical applications contact Crown Industries Inc.*



**4" and Larger Piston Check Valves**

No.	Part	Material
1	Body	Carbon / Low Alloy Steel <sup>(1)</sup>
2	Cover	Carbon / Low Alloy Steel <sup>(1)</sup>
3	Piston Seal	Nitrile <sup>(2)</sup>
4	Piston	Carbon / Low Alloy Steel <sup>(1)</sup>
5	Cotter Pin	Carbon Steel
6	Piston Rod Nut	Low Alloy Steel
7	Piston Rod Seal	Nitrile <sup>(2)</sup>
8	Drain Plug	Carbon Steel <sup>(3)</sup>
9	Front Rod Guide Support	Carbon Steel
10	Retaining Ring	Carbon Steel
11	Spring	Spring Steel
12	Rear Rod Guide Support	Carbon Steel
13	Piston Rod	Stainless Steel
14	Rod Guide Bushing	Delrin
15	Spring Stop	Carbon Steel
16	Rod Guide Bushing	Delrin
17	Cover Seal (inner)	Nitrile <sup>(2)</sup>
18	Cover Seal (outer)	Nitrile <sup>(2)</sup>
19	Studs	Low Alloy Steel
20	Nuts	Low Alloy Steel
21	Vent Plug	Carbon Steel
22	Lift / Eye	Carbon Steel <sup>(3)</sup>

*Information is for reference only.  
For critical applications contact Crown Industries Inc.*

**Notes:**

- <sup>(1)</sup> For low temperature applications, materials will have Charpy impact test.
- <sup>(2)</sup> For sour applications, all seals are Viton®.
- <sup>(3)</sup> For valves 6" and up.
- ® Viton is a registered trademark of Dupont Dow Elastomers.

**Design Features:**

- Valve design and construction in accordance with API 6D.
- Minimum wall thickness in accordance with ANSI B16.34 specification.
- Can be installed to accommodate vertical up or down flow.
- Full flow area.
- All wearing parts are replaceable.
- Helical compression spring engineered to effect valve closure automatically at zero velocity (as soon as forward flow stops and before reverse flow begins).

**Table 3: Piston Check Valve - Schedule of Dimensions**

Valve Size (inches)	ANSI Class	Length "F" (Face-to-Face)		Height "A" (inches)
		RF (inches)	RTJ (inches)	
2	150	8.00	8.50	N/A
	300	10.50	11.12	
	600	11.50	11.62	
	900	14.50	14.62	
	1500	14.50	14.62	
	2500	17.75	17.88	
3	150	9.50	10.00	N/A
	300	12.50	13.12	
	600	14.00	14.12	
	900	15.00	15.12	6.31
	1500	18.50	18.62	8.44
	2500	22.75	23.00	8.81
4	150	11.50	12.00	7.44
	300	14.00	14.62	7.44
	600	17.00	17.12	7.88
	900	18.00	18.12	8.38
	1500	21.50	21.62	8.75
	2500	26.50	26.88	9.00
6	150	14.00	14.50	10.62
	300	17.50	18.12	11.12
	600	22.00	22.12	11.53
	900	24.00	24.12	11.53
	1500	27.75	28.00	12.88
	2500	36.00	36.50	14.06
8	150	19.50	20.00	13.31
	300	21.00	21.62	13.38
	600	26.00	26.12	14.00
	900	29.00	29.12	14.25

*Additional sizes available. Contact Crown Industries for specifications.*