



Resilient Seat Check Valve Fig. CVF 300

General Description

Rapidrop Fig. CVF 300 Resilient Seat Check Valve is a rubber faced, flanged swing type check valve that allows water flow in one direction only.

A hinged clapper remains open with water flowing in one direction, and automatically closes when flow stops preventing backflow.

Removable cover allows easy access for inspection and maintenance. These valves are suitable for installation in both horizontal and vertical (with the flow upwards) pipelines.



Standards

AWWA C508, Clear Waterway

Connections

EN1092-2 PN10/PN16

ANSI B16.1 Class125

Maximum Working Pressure

20.7 bar (300 PSI)

Temperature

-10°-120°C

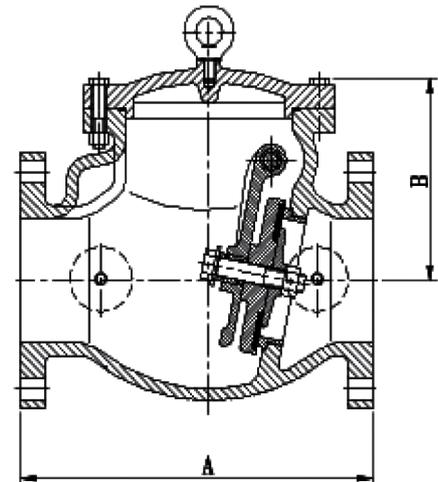
Coating

Fusion Bonded Epoxy Coating

In accordance with ANSI / AWWA C550

Approvals

UL, FM



Sizes

Sizes		Dimensions (mm)		Product Ordering Codes	
In	mm	A	B	ANSI	PN16
2"	DN 50	203	127	RDCVF050A	RDCVF050F
2.5"	DN 65	254	140	RDCVF065A	RDCVF065F
3"	DN 80	279	146	RDCVF080A	RDCVF080F
4"	DN 100	330	171	RDCVF100A	RDCVF100F
5"	DN 125	356	203	RDCVF125A	RDCVF125F
6"	DN 150	406	222	RDCVF150A	RDCVF150F
8"	DN 200	495	267	RDCVF200A	RDCVF200F
10"	DN 250	559	311	RDCVF250A	RDCVF250F
12"	DN 300	660	343	RDCVF300A	RDCVF300F



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Fig. CVF 300

Installation

The valve must be installed with the direction arrow on the body in line with the direction of the flow in the pipeline. Rapidrop swing check valves can be installed horizontally or vertically. For vertical pipework the flow direction should be upwards only. When installed horizontally the cover must be facing up. Large valves are provided with lifting eye bolt, which should be used to manoeuvre the valve.

Material Specification

Description	Material	Specification
Valve Body	Ductile Iron	A536 65-45-12
Cover	Ductile Iron	A536 65-45-12
Gasket	EPDM	Commercial
Clapper Arm	Ductile Iron	A536 65-45-12
Disk	Ductile Iron	A536 65-45-12
Retainer Washer	Bronze	B62
Hinge Pin	SS304	AISI304
Plug Washer	PTFE	Commercial
Seat Ring	Bronze	B62
O-Ring	PTFE	Commercial

Maintenance

1. Notify any authority having jurisdiction and all personnel who may be affected prior to commencing inspection.
2. Close water supply, isolate and completely drain the valve.
3. Unscrew the bolts and remove the cover.
4. Inspect internal parts, ensure correct operation and replace damaged parts.
 - a. Seat ring
 - b. Cover and cover O-ring
 - c. Clapper assembly, gasket and hinge pin

To change the clapper gasket:

- i. Remove the clapper assembly from the valve body

Unscrew one of the hinge plugs from the valve body and carefully remove the hinge pin, both hinge bushes and the clapper assembly from the valve body.
 - ii. Change the clapper gasket if necessary

Remove the safety pin, the nut, the spring washer and the retaining disk.

Replace the gasket with a new one.

Reassemble in reverse order.
 - iii. Reinstall clapper assembly

Insert the bushes in the slots of the clapper arm and carefully position the assembly inside the valve body with the clapper gasket facing the opposite direction of the flow arrow.

Line up the holes of the bushes and the valve body and insert the hinge pin.

Screw the hinge plug into the valve body.

Ensure that the clapper assembly moves freely.
5. Make sure all jointing faces are clean.
 6. Carefully position cover ensuring O-ring is not displaced.
 7. Refit bolts and tighten evenly.

Important Installation Information

- *Rapidrop Fig. CVF300 Resilient Seat Check Valve* must only be installed by a competent person in accordance with requirements of the local authority having jurisdiction. Deviations from these standards will invalidate warranty.
- It is the responsibility of the installing contractor to include a copy of this document in the sprinkler system installation, operating and maintenance manual.
- Alterations to Rapidrop products will void any warranty.
- *Fig. CVF300 Resilient Seat Check Valve* should be inspected and maintained during routine sprinkler system inspections by a competent person in accordance with national codes/requirements.
- Failure to follow these instructions could cause improper operation, resulting in personal injury and/or property damage.
- For further details and technical support please contact your Rapidrop sales representative.