FIREKING

Check Valves | Swing | Flange | SCF

SPECIFICATIONS	
Sizes	2”/DN50, 2½”/DN65, 3”/DN80, 4”/DN100, 5”/DN125, 6”/DN150, 8”/DN200, 10”/DN250, 12”/DN300
Working Pressure	300 psi / 21bar (UL & FM) 363 psi / 25bar (VdS & LPCB)
Working Temperature	0°C to 80°C (32°F to 176°F)
Finish	Fusion bonded epoxy coated, internal and external
Material (body)	Ductile iron
Connections	Flange diameter and thickness according to ANSI B16.1 Class 125, EN1092-2 PN10 or EN1092-2 PN16
Specifications	Complies with AWWA C508, clear waterway design
Approvals	cULus, FM, LPCB

Product Data & Part Numbers

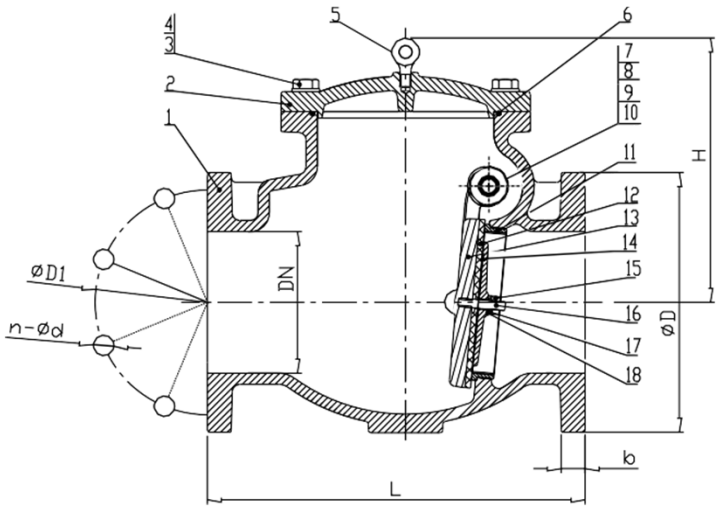
Part Number*			Nominal Pipe Size		Dimensions (mm)										Weight (Kg)
									Flat			Bolt			
ANSI	PN10	PN16	Metric	Inch	L	D	b	H	ANSI	PN16	PN10	ANSI	PN16	PN10	
SCF-0200	SCF-0200PN		DN50	2"	203	152	16.0	133	120.5	125		4-Ø19.1			11.2
SCF-0250	SCF-0250PN		DN65	2½”	254	178	17.5	150	139.5	145		4-Ø19.1			16.7
SCF-0300	SCF-0300PN		DN80	3"	279	191	19.0	150	152.5	160		4-Ø19.1	8-Ø19.1		22.5
SCF-0400	SCF-0400PN		DN100	4"	330	229	24.0	218	190.5	180		8-Ø19.1	8-Ø19.1		34.9
SCF-0600			DN150	6"	406	279	25.5	290	241.5	240		8-Ø22.2	8-Ø23		65.2
SCF-0800	SCF-0800PN10	SCF-0800PN16	DN200	8"	495	343	28.5	330	298.5	295		8-Ø22.2	12-Ø23	8-Ø23	120.7
SCF-1000	SCF-1000PN10	SCF-1000PN16	DN250	10"	622	406	30.5	350	362.0	355	350	12-Ø25.4	12-Ø28	12-Ø23	180.9
SCF-1200	SCF-1200PN10	SCF-1200PN16	DN300	12"	660	483	32.0	375	432.0	410	400	12-Ø25.4	12-Ø28	12-Ø23	242.3

* Valve flange drilling (size and location of bolt holes and pitch circle diameter) allows mating with the following flange types.
ANSI = ANSI B16.1 PN10 = DIN 2501, EN 1092 - PN10 PN16 = DIN 2501, EN 1092 - PN16

Materials list

Item	Description	Material	ASTM Specifications
1	Valve body	Ductile iron	ASTM A536 65-45-12
2	Bonnet	Ductile iron	ASTM A536 65-45-12
3	Bolts	Zinc plated carbon steel	
4	Washer	Zinc plated carbon steel	
5	Eye bolt	Zinc plated carbon steel	
6	O-ring	NBR	Commercial
7	Washer	PTFE	
8	Plug	Stainless steel	AISI 304
9	Hinge bushing	Brass	ASTM B16 C36000
10	Hinge pin	Stainless steel	AISI 410
11	Seat ring	Bronze	ASTM B62
12	Seal	EPDM	Commercial
13	Disc	Ductile iron	ASTM A536 65-45-12
14	Plate	Ductile iron	ASTM A536 65-45-12
15	Nut	Stainless steel	AISI 304
16	Bolt	Stainless steel	AISI 304
17	Spring washer	Stainless steel	AISI 304
18	Falt washer	Stainless steel	AISI 304
19	Plug*	Tin bronze	

* Not shown on drawing



Trusted above all.

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Installation

When the valves are received from VIKING they should be handled carefully to avoid breakage and damage to the seating area. Before installation of the valve:

1. Check the valve pressure rating is compatible with service conditions.
2. Clean the piping and connecting flanges.
3. Visually inspect the valve seat and ports for cleanliness immediately prior to installation.
4. Operate the valve at least once from the open to closed position prior to installation.
5. Verify that the valve flow direction is correct.
6. Check valves installed vertically shall only flow water from below to above the valve.
7. Check valves installed horizontally shall be installed such that the clapper can fall back to the closed position, i.e. in the position shown on ***page 1***.
8. Position the valve centrally between mating flanges.
9. Install bolts through the lugs and tighten carefully ensuring even contact between the flange face and Elastomer. Forcing the valves into a tight space will cause damage to the Elastomer and should be avoided.
10. To prevent distortion, properly support the piping adjacent to the inlet and outlet of the valve. Avoid damage and do not use the valve to force the piping into position.

Inspection & Maintenance

Inspect and verify proper operation on an annual basis or according to the requirements of the Authority Having Jurisdiction. Check for leakage at the valve pipe connection and body-to-operator connection. Installation, inspection and maintenance should be performed by a qualified person certified by the Authority Having Jurisdiction. If the valve closes hard, check to make sure that there is no debris lodged in the waterway around the seating area.

1. Valves should be inspected periodically and should be cycled to prevent buildup of foreign materials in the piping system and valve body.
2. Damaged clapper or cover gaskets should be replaced.