Control Valves & Devices | Check Valves | Swing Check Valves | Grooved | SCG

SPECIFICATIONS

Approvals	FM APPROVED, c UL us LISTED, VdS, LPCB
Sizes available (nominal)	2"/DN50, 2-1/2"/DN65, 3"/DN80, 4"/DN100, 6"/DN150, 8"/DN200, 10"/DN250 & 12"/DN300
Working pressure	UL/FM 21 bar (300 psi), VdS/LPCB 25 bar (363 psi)
Working Temperature:	0 °C to 80 °C
Finish	Fusion bonded epoxy coated internal and external or painting according to request
Material (body)	Ductile iron
Connections	Grooved joint dimensions are made in accordance with metric or AWWA C806

Note: Check valves may be damaged by excessively turbulent water flow. Model SCG check valves should be installed a reasonable distance from pumps, elbows, expanders, reducers, or similar devices. Typical piping practices suggest a minimum distance of five times the pipe diameter for general use.

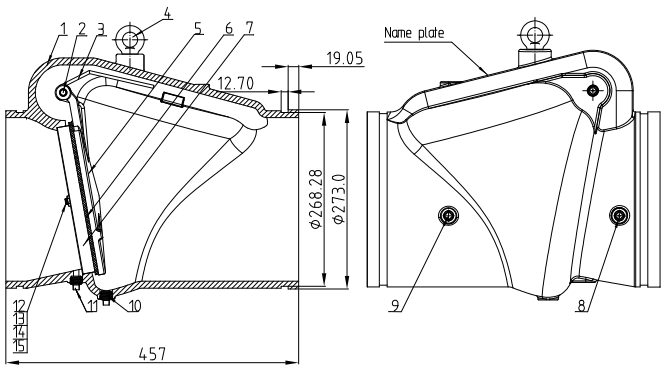
Physical data & part numbers | SCG

Part number	Nominal pipe size		Dimensions (mm)					Weight (kg)
	Metric	inch	L	D1	D2	b	c	
SCG-0200	DN50	2	172	57.2	60.3	7.9	15.9	3.3
SCG-0250-073*	DN65	2-1/2	184	69.1	73.0	7.9		3.6
SCG-0250-076				72.3	76.1			
SCG-0300	DN80	3	197	84.9	88.9	7.9		4.6
SCG-0400	DN100	4	206	110.1	114.3	9.5		7.4
SCG-0600-165*	DN150	6	325	160.9	165.1	9.5		16.2
SCG-0600-168				164.0	168.3			
SCG-0800	DN200	8	372	214.4	219.1	11.1	19.1	26.9
SCG-1000	DN250	10	457	268.3	273.0	12.7		51.9
SCG-1200	DN300	12	535	318.3	323.9			75.6

* without VdS approval

Material list | SCG

Item	Description	Material	ASTM Specification
1	Valve body	Ductile iron	ASTM A536 65-45-12
2	Hinge pin	Stainless steel	AISI 420
3	Spring	Stainless steel	AISI 304
4	Ring	Zinc plated carbon steel	
5	Disc	Ductile iron	ASTM A536 65-45-12
6	Disc seal ring	EPDM	Commercial
7	Seat ring	Bronze	ASTM B62 C83600
8	Plug	Malleable iron galvanized	
9	Plug	Malleable iron galvanized	
10	Plug	Malleable iron galvanized	
11	Plug	Malleable iron galvanized	
12	Bolt	Stainless steel	AISI 304
13	Nut	Stainless steel	AISI 304
14	Washer	Stainless steel	AISI 304
15	Washer	Stainless steel	AISI 304



Trusted above all.

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Installation | SCG

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 couplings.
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 pipes.
9. Lubricate the coupling gaskets and slide them into position. Assemble the couplings according to their instructions.
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 | SCG

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 gaskets should be replaced.

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