



Check Valves | Swing | Groove | SCG



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°C to 176°C)
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, Vds



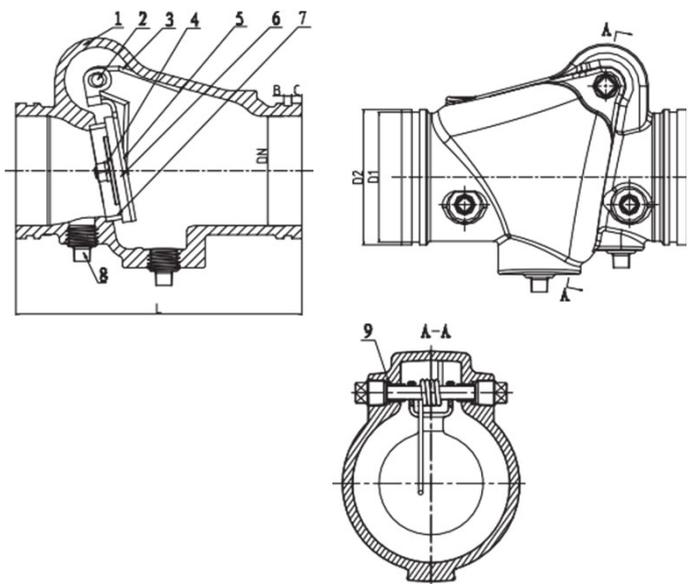
Product Data & Part Numbers

Part number	Nominal pipe size		Dimensions (mm)					Weight (kg)
	DN	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	2½"	184	69.1	73.0	7.9		3.6
SCG-0250-076				72.3	76.1			4.6
SCG-0300	DN80	3"	197	84.9	88.9	9.5		7.4
SCG-0400	DN100	4"	206	110.1	114.3			16.2
SCG-0600-165*	DN150	6"	325	160.9	165.1	9.5	16.2	
SCG-0600-168				164.0	168.3		26.9	
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 VdsApproval

Materials list

Item	Part Name	Material	ASTM Specification
1	Valve body	Ductile Iron	ASTM A 536 Gr. 65-45-12
2	Hinge pin	Stainless Steel	AISI 420
3	Spring	Stainless Steel	AISI 304
4	Spring Washer	Stainless Steel	AISI 304
5	Disc	DN50-DN100 Stainless Steel DN150-DN300 Ductile Iron	AISI 304 ASTM A 536 Gr. 65-45-12
6	Disc Sealing Ring	EPDM	Commercial
7	Seat Ring	Bronze	ASTM B62 C83600
8	Plug	Malleable Iron - Galvanised	
9	Bushing	Bronze	ASTM B62 C83600



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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 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

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.

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