

SSC Swing Check Valves plastomer-lined

DN 40–600/NPS 1½"–24"

Suited for safe non-return flow control of corrosive fluidic media to be handled in process piping systems.

Modular Design

SSC Swing Check Valves Series are available as wafer-style types, for horizontal or vertical installation between flanges acc. to DIN PN 10/16 or ANSI 150 lbs.



CE Conformity according to European Pressure Equipment Directive 2014/68/EU (PED)

Main Features

- DIN/ANSI combined, optimized design
- 2- or 3-piece bodies made of cast steel WCB, RAL 5005 signal-blue epoxy-coating or compl. made of stainless steel 1.4408 (CF8M)
- Linings and encapsulations made of PFA or PFA-AS (conductive)
- Discs encapsulated or solid made of 1.4404 SS316L, 3.7035 Titanium Gr.2, or 2.4675 Hastelloy®
- Easy installation into existing piping systems, for silent operation, maintenance-free
- Centering eyes for secure positioning
- Flap disk secured against falling out
- Face to face acc. to EN 558-1, range 20
- FDA-conform

Operation Conditions

- Temperature range from –40 °C up to +200 °C (–40 °F up to +400 °F), depending on lining material
- Pressure range from 1 mbar up to 16 bar (0.01 psi up to 232 psi), depending on temperature

Testing/Marking

- Pressure- and tightness testing acc. to EN 12266-1, leakage rate A, resp. API 598
- High voltage testing of the plastic linings for freedom from pores at 35 kV
- Marking of valves on body and name plate acc. to EN 19
- Material- resp. test certificates acc. to EN 10204-3.1/2.2/2.1

Standard Materials of Components

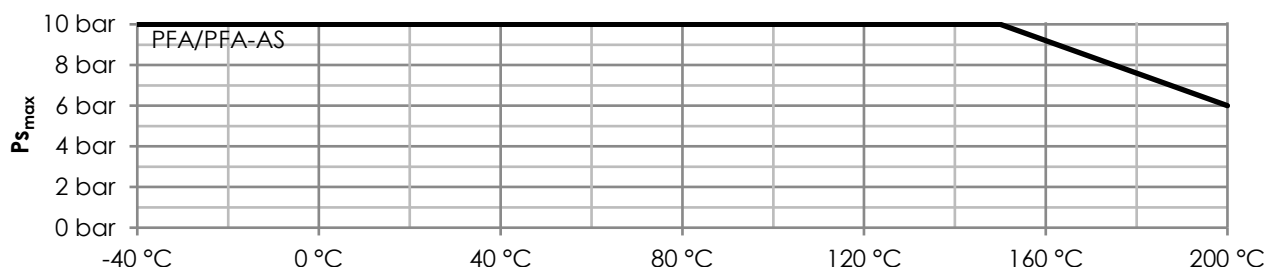
Body	Cast steel 1.0619 (WCB) epoxy
Disc core	1.4469 Stainless steel Duplex
Lining	PFA to ASTM D3307
Retaining ring ¹	C. Steel 1.0570 or 1.4404

Options

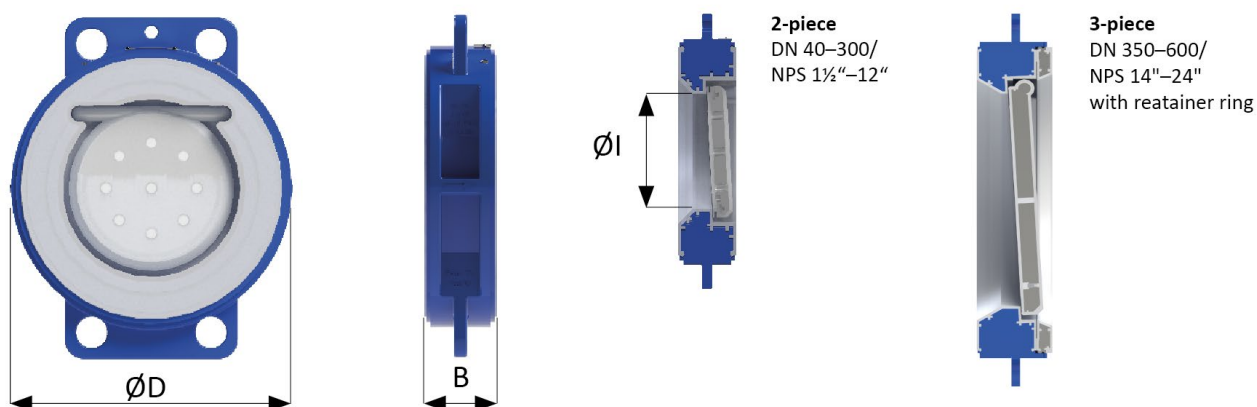
Stainless steel 1.4408 (CF8M)
 Discs massiv of 3.7035 Titanium Gr. 2, 2.4675 Hastelloy®
 PFA-AS (conductive)
¹ only for DN 350–600/NPS 14"–24"

Pressure-/Temperature-Diagram

Low-temperature or austenitic steels are required for use below -10 °C operating temperature.



Technical Data



Dimension in mm (lbs = kg x 2.2)

DN/NPS Size	B	ØD	ØI	kg
40/1½"	33	82	22	1.1
50/2"	43	101	30	2.1
80/3"	46	133	51	3.6
100/4"	52	162	72	5.5
150/6"	56	217	111	9.0
200/8"	60	268	155	14
250/10"	68	325	203	21
300/12"	78	375	253	33
350/14"	92	437	280	65
400/26"	102	487	300	76
450/18"	114	537	350	115
500/20"	127	594	400	152
600/24"	154	694	498	210

Overall lengths according to DIN EN 558-1 Series 20
Other sizes and materials upon request

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PM 42 en / 2025-06

Specification

Project-/Customer Date	Inquiry/Date:		Ref. SF	
Project:		Contact Person:		Phone:
Company:		Function:		E-Mail:
Address:		Department:		Mobile:
ZIP/Place:		Phone direct:		

Operation Conditions

Media/Chemical Composition:

☐ Liquid	☐ Powdery	☐ Crystallizing	☐ Sticky	☐ Spec. Grav. ____
☐ Gaseous	☐ Solids ____ %	☐ Viscous	☐ Flow velocity ____ m/s	
☐ Abrasive	☐ Particle ____ mm	☐ Visc. ____ cp	☐ Flow rate ____ m ³ /hr	

Pressure

max. ____ bar

min. ____ bar

Temperature

max. ____ °C

min. ____ °C

Mode

☐ Continuous

☐ _____

Installation/Enviroment

☐ Horizontal

☐ Vertical

☐ _____

☐ Room dry

☐ Room humid

☐ Outdoor

Remarks:

SSC Product Code

Specification of a complete Swing Check Valves SSC Series

Product Code	Nom.size	Flange connection	Body	Lining body	Disc	Options
SSC	-	-	-	-	-	-
	☐ DN 40-600 ☐ NPS 1½"-24"	☐ PN 16 ☐ PN 40 ☐ Class 150 ☐ Class 300	☐ G10 WCB ☐ G15 CF8M	☐ A85 PFA ☐ A86 PFA-AS	☐ U85 PFA ☐ U86 PFA-AS ☐ S34 SS316L ☐ S40 Tit. Gr.2 ☐ S41 Tit. Gr.7 ☐ S 43 Hast. C-276	☐ RAL Special coating ☐ GC Grounding cable