

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 flanges acc. ANSI 150 lbs.



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

Main Features

- 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 ASME B16.10
- FDA-conform

Operation Conditions

- Temperature range from –40 °F up to +400 °F, depending on lining material
- Pressure range from 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

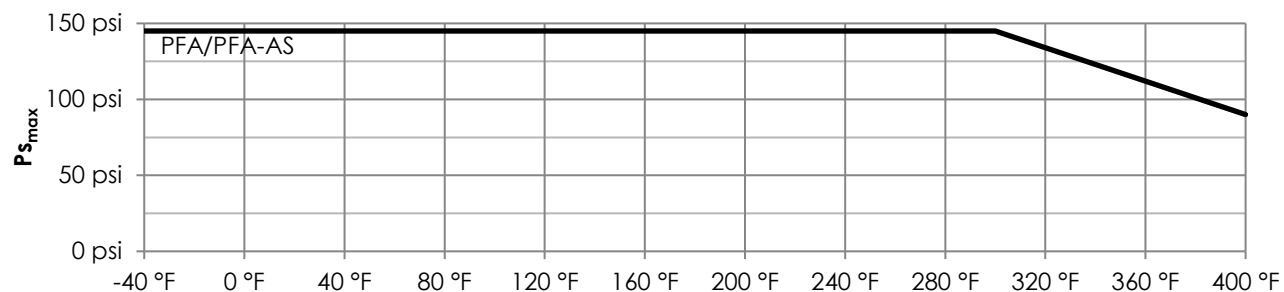
Body	Cast steel 1.0619 (WCB) epoxy
Disc core	1.4469 Stainless steel Duplex
Lining	PFA to ASTM D3307
Retaining ring¹	C. Steel 1.0570 or 1.4404

Options

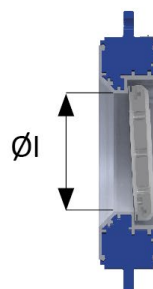
Stainless steel 1.4408 (CF8M)
Discs massiv of 3.7035 Titanium Gr. 2, 2.4675 Hastelloy®
PFA-AS (conductive)
¹ only for NPS 14"–24"

Pressure-/Temperature-Diagram

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



Technical Data



2-piece
NPS 1½"–12"



3-piece
NPS 14"–24"
with reainer ring

Dimension in inch

NPS Size	B	ØD	Øl	lbs
1½"	1.30	3.22	0.87	2.42
2"	1.69	3.97	1.18	4.62
3"	1.81	5.23	2.00	7.93
4"	2.04	6.37	2.83	12.12
6"	2.20	8.54	4.37	19.84
8"	2.36	10.55	6.10	30.86
10"	2.68	12.79	7.99	46.29
12"	3.07	14.76	9.96	72.75
14"	3.62	17.20	11.02	143.00
26"	4.01	19.17	11.81	167.55
18"	4.49	21.14	13.78	253.53
20"	5.00	23.38	15.75	335.10
24"	6.06	27.32	19.61	462.97

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

SSC Swing Check Valves plastomer-lined

PM 42 us / 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 ____ ft/s	
☐ Abrasive	☐ Particle ____ mm	☐ Visc. ____ cp	☐ Flow rate ____ usg/min	

Pressure

max. ____ bar

min. ____ bar

Temperature

max. ____ °C

min. ____ °C

Mode

☐ Continous

☐ _____

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	-	-	-	-	-	-
	NPS 1½"-24"	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