

Submittal Data Sheet



Job or Customer:	
Engineer:	
Contractor:	
Submitted by:	
Approved by:	***************************************
Order No:	Date
Specification:	Date

< STANDARDS >



ASTM D1784

IPEX SC Swing Check Valves combine superior flow rate with maximum versatility. Stainless wetted parts and hardware, a top entry design, and integral flanged ends are just a few key features. With extremely low back pressure requirements, these valves are ideal for back-flow prevention in large diameter lines, both horizontal and vertical. SC Swing Check Valves are part of our complete systems of pipe, valves, and fittings, engineered and manufactured to our strict quality, performance, and dimensional standards.



ANSI B16.5

VALVE AVAILABILITY

Body Material	PVC
Size Range	3" - 8"
Pressure	100 psi (3") 70 psi (4" to 8")
Seals	EPDM, or Viton® (FPM)
End Connections	Flanged (ANSI 150)

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Valve Selection

Size (inches)	Body Material	O-ring Material	IPEX Part Number Flanged	Pressure Rating @ 73°F	
3	PVC	EPDM	052289	100:	
<u> </u>	PVC	Viton®	053875	100 psi	
/.	PVC	EPDM	052290	70 pgi	
4	PVC	Viton®	053876	70 psi	
	PVC	EPDM	052291	70	
6	PVC	Viton®	053877	70 psi	
8	DVC	EPDM	052292	70 noi	
	PVC	Viton®	053878	70 psi	

Size (inches):

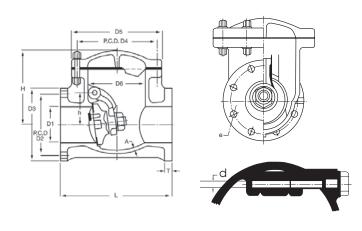
3	6
4	8

Seals:

EPDM
Viton® (FPM)

IPEX Part Number:

Dimensions and Weights



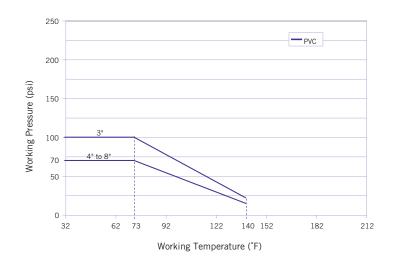
Dimension (inches)

Size	D1	D2	D3	D4	D5	D6	е	# holes
3	3.16	6.00	7.50	7.13	8.06	5.13	0.75	4
4	3.94	7.50	9.00	9.25	10.44	6.69	0.75	8
6	5.53	9.50	11.00	13.00	14.56	9.84	0.88	8
8	7.88	11.75	13.50	15.31	16.71	11.81	0.88	8

Dimension (inches)

		_		(,		
Size	L	Т	Α	h	Н	d	W (lbs)
3	10.25	0.79	0.34	2.75	6.72	0.47	8.25
4	11.82	0.90	0.41	3.53	8.38	0.63	19.40
6	15.75	1.20	0.63	5.31	10.56	0.78	28.66
8	16.69	1.22	0.72	6.69	12.06	0.78	46.30

Pressure - Temperature Ratings



Minimum Back Pressure to Seal

Size	PSI
3	8.5
4	9.7
5	9.7
6	11.9
8	11.9

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Installation Procedures

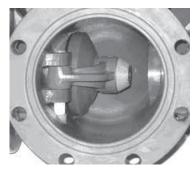
- Ensure that the valve is in the correct orientation then carefully place the valve in the system between the two pipe flanges.
- Join each end of the valve to the pipe flanges. For correct joining procedure, please refer to the section entitled, "Joining Methods – Flanging" in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems".



Disassembly

- If removing the valve from an operating system, isolate the valve from the rest of the system. Be sure to depressurize and drain the isolated branch and valve before continuing.
- Loosen end of the valve from the pipe flanges.
 Please refer to the section entitled, "Joining Methods
 – Flanging" in the IPEX Industrial Technical Manual
 Series, "Volume I: Vinyl Process Piping Systems" for a
 recommended bolt tightening pattern diagram. Follow
 the same pattern when disassembling the flanged
 joints.
- 3. Carefully remove the valve from the line.
- 4. Loosen and remove the nuts (10), bolts (11), and washers (12) then remove the bonnet (2) and gasket (7) from the top of the valve body (1).
- 5. Loosen the shaft holder (14) and remove the o-ring (13).
- 6. Remove the shaft (8) then take the swing arm (5) assembly out of the valve.
- To disassemble the swing arm, loosen the set bolt(s)
 (15) then remove the gasket holder (4) and disc gasket
 (6) from the disc (3).
- 8. The valve components can now be checked for problems and/or replaced.

Note: The disc and disc holder (9) are permanently fixed to the swing arm by the set pin (16) and cannot be disassembled.





Assembly

Note: Before assembling the valve components, it is advisable to lubricate the o-rings with a water soluble lubricant. Be sure to consult the "IPEX Chemical Resistance Guide" and/or other trusted resources to determine specific lubricant-rubber compatibilities.

- 1. Assemble the swing arm (5) components by placing the disc gasket (6) and gasket holder (4) on the disc (3) then tightening the set bolt(s) (15).
- 2. Place the swing arm assembly into the valve body (1) then insert the shaft (8) through the mounting holes.
- Fit the o-ring (13) on the shaft holder (14) then sufficiently tighten into the valve body.
- 4. Taking care to line up all the holes, place the gasket (7) and bonnet (2) onto the valve body.
- Insert and tighten all nuts (10), bolts (11), and washers (12) according to a proper flange bolt tightening pattern.



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Testing and Operating

The purpose of system testing is to assess the quality of all joints and fittings to ensure that they will withstand the design working pressure, plus a safety margin, without loss of pressure or fluid. Typically, the system will be tested and assessed in sub-sections as this allows for improved isolation and remediation of potential problems. With this in mind, the testing of a specific installed valve is achieved while carrying out a test of the overall system.

An onsite pressure test procedure is outlined in the IPEX Industrial Technical Manual Series, "Volume I: Vinyl Process Piping Systems" under the section entitled, "Testing". The use of this procedure should be sufficient to assess the quality of a valve installation. In any test or operating condition, it is important to never exceed the pressure rating of the lowest rated appurtenance in the system.

Important points:

- Never test thermoplastic piping systems with compressed air or other gases including air-over-water boosters.
- When testing, do not exceed the rated maximum operating pressure of the valve.
- Avoid the rapid closure of valves to eliminate the possibility of water hammer which may cause damage to the pipeline or the valve.

Please contact IPEX customer service and technical support with regard to any concern not addressed in this data sheet or the technical manual.

About IPEX

About the IPEX Group of Companies

As leading suppliers of thermoplastic piping systems, the IPEX Group of Companies provides our customers with some of the world's largest and most comprehensive product lines. All IPEX products are backed by more than 50 years of experience. With state-of-the-art manufacturing facilities and distribution centers across North America, we have established a reputation for product innovation, quality, enduser focus and performance.

Markets served by IPEX group products are:

- Electrical systems
- · Telecommunications and utility piping systems
- · Industrial process piping systems
- Municipal pressure and gravity piping systems
- · Plumbing and mechanical piping systems
- · Electrofusion systems for gas and water
- · Industrial, plumbing and electrical cements
- · Irrigation systems
- · PVC, CPVC, PP, PVDF, PE, ABS, and PEX pipe and fittings

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A policy of ongoing product improvement is maintained. This may result in modifications of features and/or specifications without notice.

