



# PVC, CPVC & PP SWING CHECK VALVES

SK-2-0999

## Engineered for Demanding Industrial Applications



Designed for optimum flow, quick response and positive shut off with minimum turbulence, this rugged industrial grade Swing Check Valve is used in a wide variety of industrial and chemical processing applications where high volume fluid transfer is required. Suitable for horizontal or vertical applications. Available in flanged style IPS sizes 2-1/2" through 8".

### Engineered for Full Flow Fluid Transfer

Unlike fixed in-line check devices, such as ball or spring loaded plungers, the Swing Check allows higher GPM fluid transfer with minimum restriction. Spears computer engineered design provides contoured interior surfaces for optimum flow, minimum turbulence and less entrapment of any debris present in fluid media.

### Quick Response, Low Closing Pressure Disc, Plus Optional Indicator Or Counterweight.

Engineered to reduce "slamming", check disc responds quickly to back flow with as little as 0.5 psi closing pressure. Optional features include High visibility directional arrow or exterior counter balance weight for fine tuning disc closing characteristics.

### Heavy Bodied, All Plastic Interior Construction

Spears design uses no metal components in contact with process fluids. Heavy bodied CPVC, PVC, or Polypropylene components provide superior strength and maximum chemical resistance.

### Standard O-ring Seals in Choice of Elastomers

Spears Swing Check Valves require no special seals or gaskets. Standard O-ring seals are used for seat, swing arm, bonnet, and drain plug. Available with EPDM or Viton® seals, plus special order PTFE encapsulated elastomer seals option

### Full Service Pressure Rating

Swing Check Valves are rated at 150 psi for sizes 2-1/2", 3" and 4", 100 psi for 6", and 70 psi for 8" maximum internal pressure rating for water at 73°F.

### Serviceable In-line, Plus Standard Feature Drain

All valve components are fully replaceable for service or repair. Top entry allows easy access to components without removal from system. Plus, convenient O-ring sealed Drain Plug allows quick-flush of any accumulated debris from bottom of valve.

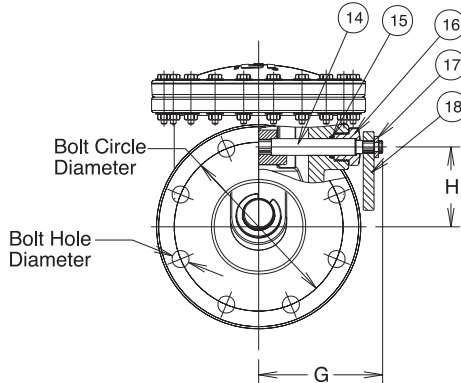
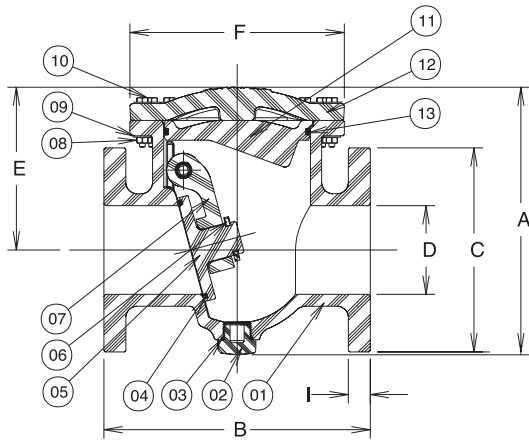
### C<sub>v</sub> Values

Valve Size	C <sub>v</sub>
2-1/2	300
3	300
4	480
6	1100
8	1900



Quality Systems Certificate No. 293  
Corporate Facilities, Sylmar, CA  
Assessed to ISO 9001

**Sample Engineering Specification**  
All thermoplastic check valves shall be flanged swing check type constructed from PVC Type I Cell Classification 12454, CPVC Type IV Cell Classification 23447 or Polypropylene. All valve seals shall be standard O-ring type EPDM, Viton® or PTFE encapsulated elastomer. All valve components shall be replaceable. All valves shall have O-ring sealed drain plug. All 2-1/2" - 4" valves shall be pressure rated at 150 psi, all 6" valves at 100 psi and all 8" valves at 70 psi for water at 73°F, as manufactured by Spears Manufacturing Company.



No.	Component	Qty.	Material
1	Body	1	PVC / CPVC / PP
2	Plug	1	PVC / CPVC / PP
3	Plug O-Ring	1	EPDM / Viton®
4	Disc O-Ring	1	EPDM / Viton®
5	Disc	1	PVC / CPVC / PP
6	Disc Retaining Clip	1	CPVC / CPVC / PP
7	Swing Arm	1	PVC / CPVC / PP
8	Nut	20	Stainless Steel
9	Washer	40	Stainless Steel
10	Bolt	20	Stainless Steel
11	Seal Carrier	1	PVC / CPVC / PP
12	Bonnet	1	PVC / CPVC / PP
13	Body O-Ring	1	EPDM / Viton®
14	Arm Pin	1	PVC / CPVC / PP
15	Arm Pin O-Ring	1	EPDM / Viton®
16	Arm Pin Plug	1	PVC / CPVC / PP
17	Arm Pin Retaining Clip	1	PVC / CPVC / PP
18	Indicator	1	PP

Size	A	B	C	D	E	F	G	H	I	Bolt Circle Diameter	Bolt Hole Diameter	Number of Bolt Holes
2-1/2	10-3/4	10-1/4	7-1/2	3-1/8	6-3/4	8-5/8	5-1/4	3-1/16	7/8	5-1/2	3/4	4
3	10-3/4	10-1/4	7-1/2	3-1/8	6-3/4	8-5/8	5-1/4	3-1/16	7/8	6	3/4	4
4	11-3/4	11-13/16	9	3-29/32	7-1/4	9-1/2	5-1/2	3-17/32	31/32	7-1/2	3/4	8
6	Availability to be Announced											
8	Availability to be Announced											



## SPEARS® MANUFACTURING COMPANY

### CORPORATE OFFICES

15853 Olden Street, Sylmar, CA 91342  
 P.O. Box 9203, Sylmar, CA 91392  
 (818) 364-1611 • <http://www.spearsmfg.com>



### PACIFIC SOUTHWEST

15860 Olden Street  
 Sylmar (Los Angeles), CA 91342  
 P.O. Box 9203, Sylmar, CA 91392  
 (818) 364-1611  
 (800) 862-1499  
 FAX: (818) 367-3014

### NORTHWEST

3902 "B" Street N.W.  
 Auburn (Seattle), WA  
 98001  
 (253) 939-4433  
 (800) 347-7327  
 FAX: (253) 939-7557

### ROCKY MOUNTAIN

4800 Nome Street  
 Denver, CO  
 80239  
 (303) 371-9430  
 (800) 777-4154  
 FAX: (303) 375-9546

### SOUTH CENTRAL

1838 Forms Drive  
 Carrollton (Dallas), TX  
 75006  
 (972) 245-0387  
 (800) 441-1437  
 FAX: (972) 245-4205

### UTAH

1415 South 700 West #3  
 Salt Lake City, UT  
 84104  
 (801) 972-0659  
 FAX: (801) 972-0688

### NORTHEAST

543 Industrial Drive  
 Lewisberry (Harrisburg), PA  
 17339-9532  
 (717) 938-8844  
 (800) 233-0275  
 FAX: (717) 938-6547

### SOUTHEAST

2751 Miller Road  
 Decatur (Atlanta), GA  
 30035  
 (770) 981-7122  
 (800) 662-6326  
 FAX: (770) 981-6106

### FLORIDA

3445 Bartlett Boulevard  
 Orlando, FL  
 32811  
 (407) 843-1960  
 (800) 327-6390  
 FAX: (407) 425-3563

### MIDWEST

854 Fairway Drive  
 Bensenville (Chicago), IL  
 60106  
 (630) 773-0075  
 (800) 662-6330  
 FAX: (630) 773-0435

### INTERNATIONAL SALES

15853 Olden Street  
 Sylmar (Los Angeles), CA 91342  
 P.O. Box 9203  
 Sylmar, CA 91392  
 (818) 364-1611  
 FAX: (818) 898-3774  
 E-mail: [export@spearsmfg.com](mailto:export@spearsmfg.com)