

# SV/SVS Series

BUTTERFLY VALVES



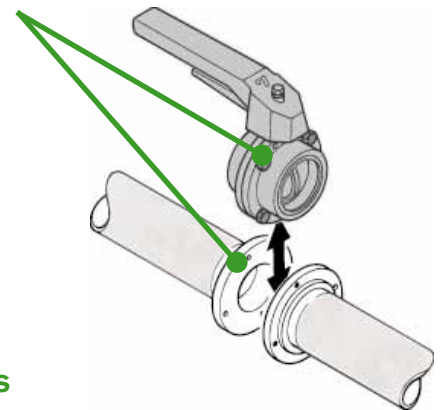
Whether you need manually or pneumatically controlled butterfly valves for pipeline installation or preassembled valve manifolds, the DELTA SV/SVS series from SPX is the answer. A robust and reliable shut-off element with a long service life.

Butterfly Valves offer great durability, economy and ease of use for a wide range of applications. Easy to install and maintain, butterfly valves close under pressure to form a leak-tight seal, plus have the ability to throttle flow with a positioner.

## Butterfly Valves

### PRODUCT FEATURES AND BENEFITS

- Product passages are smooth and the special seals ensure a thorough cleaning
- Unique metallic stop prevents the valve flanges from being tightened too much and protects the valve seal from mechanical over stress thus improving seal life
- One actuator covers all diameters from 1" (25mm) - 4" (100mm)
- Sliding bearings on the pivots of the discs increase operating reliability
- Visual indication of open/closed position
- SVS1F intermediate flange design allows simple removal and easy access of valves that are in lengthy or fixed pipelines



### PRODUCT SPECIFICATIONS

#### Materials:

#### Disc and Body:

- 316L stainless steel with sanitary finish

#### Seal:

- EPDM, HNBR, FPM, VMQ

#### Finish:

- $\leq 32 \text{ Ra}$  ( $\leq 0.8\mu$ ) - *Other finishes available upon request*

#### Sizes:

##### SV1

- 1" - 4" O.D. Tube
- DN25-100

##### SVS1F

- 1" - 4" O.D. Tube
- 1" - 6" Sched 5
- DN25-250

#### Pressure Ratings:

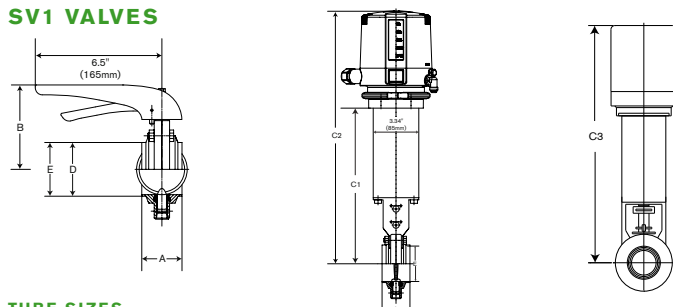
Operating Pressure: Maximum line and control air pressure 145 psi (10 bar)

#### Temperature Ratings:

- EPDM, HNBR - 275°F (135°C), short time - 284°F (140°C)
- VMQ - 212°F (100°C)
- FPM (not to be used for hot water) - 212°F (100°C)

## DIMENSIONS

### SV1 VALVES



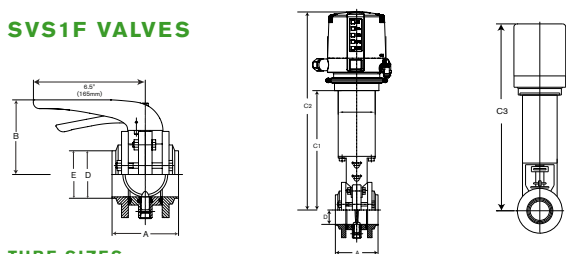
### TUBE SIZES

VALVE SIZE inch (mm)	A		E [O.D.]	D [I.D.]	B	C1 [no CT]	C2 [CU4 CT]	C3 [WCB CT]
	WELD	S-LINE						
1.00 (25,0)	2.04 (51,0)	3.15 (80,0)	1.00 (25,0)	0.87 (22,6)	3.46 (88,0)	10.68 (271,0)	17.77 (451,5)	17.50 (444,0)
1.50 (38,0)	2.04 (51,0)	3.15 (80,0)	1.50 (38,0)	1.37 (34,6)	3.78 (96,0)	11.00 (280,0)	18.11 (460,0)	17.80 (452,0)
2.00 (50,0)	2.04 (51,0)	3.15 (80,0)	2.00 (51,0)	1.87 (47,8)	4.01 (102,0)	11.22 (285,0)	18.30 (465,0)	18.10 (459,0)
2.50 (63,0)	2.06 (52,4)	3.15 (80,0)	2.50 (63,5)	2.37 (60,3)	4.33 (110,0)	11.53 (293,0)	18.64 (473,5)	18.38 (467,0)
3.00 (76,0)	2.06 (52,4)	3.15 (80,0)	3.00 (76,1)	2.87 (72,9)	4.44 (113,0)	11.69 (297,0)	18.77 (477,0)	18.50 (471,0)
4.00 (101,0)	2.06 (52,4)	3.15 (80,0)	4.00 (101,6)	3.83 (97,6)	5.00 (127,0)	12.24 (311,0)	19.33 (491,0)	19.10 (485,0)

### DN SIZES

VALVE SIZE mm (inch)	A		E [O.D.]	D [I.D.]	B	C1 [no CT]	C2 [CU4 CT]	C3 [WCB CT]
	WELD	S-LINE						
25,0 (1.00)	52,0 (2.04)	70,0 (2.75)	29,0 (1.14)	26,0 (1.02)	87,0 (3.42)	271,0 (10.68)	451,5 (17.77)	444,0 (17.50)
40,0 (1.60)	52,0 (2.04)	70,0 (2.75)	41,0 (1.61)	38,0 (1.49)	96,0 (3.78)	280,0 (11.00)	460,0 (18.11)	452,0 (17.80)
50,0 (2.00)	52,0 (2.04)	70,0 (2.75)	53,0 (2.08)	50,0 (1.96)	102,0 (4.01)	286,0 (11.25)	465,0 (18.30)	459,0 (18.10)
65,0 (2.55)	52,4 (2.06)	70,0 (2.75)	70,0 (2.75)	66,0 (2.59)	110,0 (4.33)	294,0 (11.57)	473,5 (18.64)	467,0 (18.38)
80,0 (3.15)	52,4 (2.06)	70,0 (2.75)	85,0 (3.34)	81,0 (3.18)	117,0 (4.60)	302,0 (11.88)	481,0 (18.93)	471,0 (18.50)
100,0 (3.93)	52,4 (2.06)	70,0 (2.75)	104,0 (4.09)	100,0 (3.93)	127,0 (5.00)	312,0 (12.28)	491,0 (18.93)	485,0 (19.10)

### SVS1F VALVES



### TUBE SIZES

VALVE SIZE inch (mm)	A	E [O.D.]	D [I.D.]	B	C1 [no CT]	C2 [CU4 CT]	C3 [WCB CT]
1.00 (25,0)	3.85 (98,0)	1.00 (25,0)	0.87 (22,0)	3.42 (87,0)	10.60 (269,0)	17.77 (451,5)	17.50 (444,0)
1.50 (38,0)	3.85 (98,0)	1.50 (38,0)	1.37 (34,0)	3.78 (96,0)	10.95 (278,0)	10.94 (278,0)	17.80 (452,0)
2.00 (50,0)	3.85 (98,0)	2.00 (51,0)	1.87 (47,0)	4.01 (102,0)	11.18 (284,0)	11.18 (284,0)	18.10 (459,0)
2.50 (63,0)	3.85 (98,0)	2.50 (63,5)	2.37 (60,0)	4.33 (110,0)	11.45 (291,0)	18.64 (473,5)	18.38 (467,0)
3.00 (76,0)	3.85 (98,0)	3.00 (76,1)	2.87 (72,0)	4.44 (113,0)	11.73 (298,0)	11.87 (301,0)	18.50 (471,0)
4.00 (101,0)	3.85 (98,0)	4.00 (101,6)	3.83 (97,0)	5.00 (127,0)	12.20 (310,0)	12.18 (309,0)	19.10 (485,0)

### DN SIZES

VALVE SIZE mm (inch)	A	E [O.D.]	D [I.D.]	B	C1 [no CT]	C2 [CU4 CT]	C3 [WCB CT]
25,0 (1.00)	98,0 (3.85)	29,0 (1.14)	26,0 (1.02)	87,0 (3.42)	271,0 (10.68)	451,5 (17.77)	444,0 (17.50)
40,0 (1.60)	98,0 (3.85)	41,0 (1.61)	38,0 (1.49)	96,0 (3.78)	280,0 (11.00)	280,0 (11.02)	452,0 (17.80)
50,0 (2.00)	98,0 (3.85)	53,0 (2.08)	50,0 (1.96)	102,0 (4.01)	286,0 (11.25)	286,0 (11.26)	459,0 (18.10)
65,0 (2.55)	98,0 (3.85)	70,0 (2.75)	66,0 (2.59)	110,0 (4.33)	294,0 (11.57)	473,5 (18.64)	467,0 (18.38)
80,0 (3.15)	98,0 (3.85)	85,0 (3.34)	81,0 (3.18)	117,0 (4.60)	301,5 (11.87)	301,5 (11.87)	471,0 (18.50)
100,0 (3.93)	98,0 (3.85)	104,0 (4.09)	100,0 (3.93)	127,0 (5.00)	312,0 (12.28)	311,5 (12.26)	485,0 (19.10)
125,0 (4.92)	108,0 (4.25)	129,0 (5.07)	125,0 (4.92)	181,0 (7.12)	491,0 (19.33)	643,0 (25.31)	664,0 (26.14)
150,0 (5.90)	108,0 (4.25)	154,0 (6.06)	150,0 (5.90)	194,3 (7.63)	505,0 (19.88)	657,0 (25.86)	678,0 (26.69)
200,0 (7.87)	107,0 (4.21)	204,4 (8.04)	200,0 (7.87)	222,2 (8.74)	573,0 (22.55)	723,0 (28.46)	746,0 (29.37)
250,0 (9.84)	107,0 (4.21)	254,4 (10.01)	250,0 (9.84)	250,4 (9.84)	602,0 (23.70)	751,0 (29.56)	775,0 (30.51)

## Typical product applications

### Food & Beverage

Dairy  
Beverage  
Brewery  
Clean in Place  
Personal Care



### Industrial

Chemical





## Options and Accessories:

### Control Tops - APV



#### Connector Options

- S/O Cord Grip for hard wire (std)
- Quick Disconnect Pin Connectors
- Interface Options
- AS-i Field® Bus Card
- Profibus and DeviceNet (CU3)

#### Position Indication

- 2 internal feedback sensor switches for valve open/valve closed position detection

#### Solenoid Valves

- 24V DC
- Select 1 Solenoid or Solenoid with NOT-Element (Air/Air)

#### Features

- NEMA 6 (IP67)

### Control Tops - WCB



#### Connector Options

- S/O Cord Grip for hard wire (std)
- Quick Disconnect Pin Connectors

#### Interface Options

- AS-i Field® Bus Card
- DeviceNet® Field Bus Network Card

#### Position Indication

- Set and Forget programmable linear switch
- Inductive Proximity Switches - 20-140V AC/DC, 2-Wire (Std)
- Microswitches 24VDC, 110VAC
- Intrinsically safe options 5-24VDC
- Externally mounted options

#### Solenoid Valves

- 24V DC or 110V AC
- Select 1, 2 or 3 Solenoids
- Intrinsically safe option 24V DC

#### Features:

- NEMA 4x (IP56)
- Stainless Steel Control Top Option

### Proximity Switch Only

- Available with manual handle and pneumatic actuators
- Yoke mounted 10-30 VDC prox sensors with LED
- Feedback for valve open/valve closed position detection



### Electropneumatic Positioner

- 4-20mA feedback signal
- Throttle/Control flow
- LCD display and simple set-up
- Optional DeviceNet, Profibus or As-i Communication



## Global locations

#### AMERICAS

##### SPX FLOW TECHNOLOGY

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Delavan, WI 53115  
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Fax: +86 21 6715 8282

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