



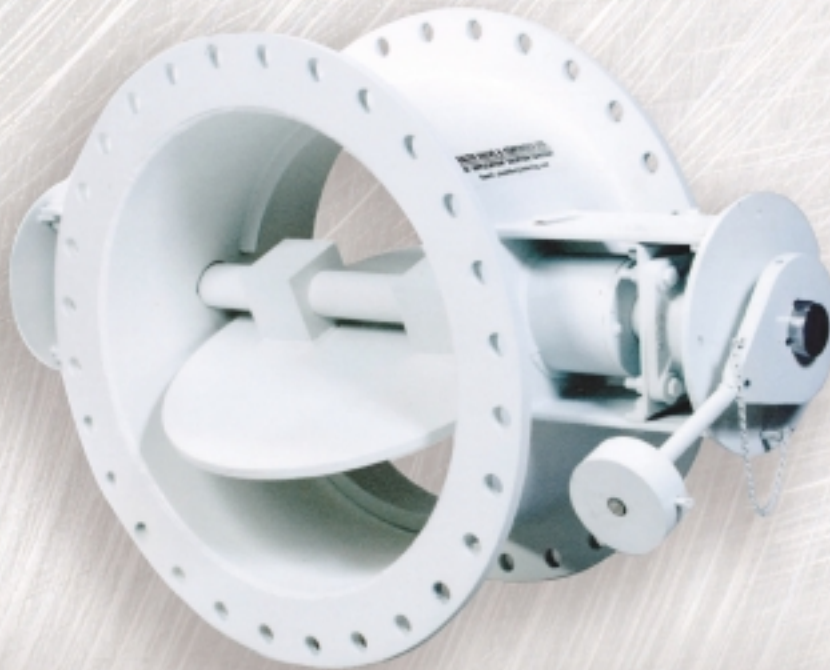
ESTABLISHED 1991

**STEALTH INTERNATIONAL INC.**

The "Application Solution" Company®

## **MODEL SDCV**

### **Municipal Division Deflector Valves**



## **Stealth Deflector Check Valve**

Setting New Standards For Product Evaluation



THE "APPLICATION SOLUTION" COMPANY®





## SDCV DEFLECTOR CHECK VALVE SUGGESTED SPECIFICATIONS

**General:** All valves shall incorporate locking pins for the open and closed position with intermediate locking positions for rate of flow control. Counter weight arms shall incorporate three keyways with adjustable arms for counterweights on both sides of the valve. All valves shall be manufactured in Canada and be of the same design for the last five years.

**Bodies:** All bodies shall be flanged manufactured of A-36 carbon steel to ANSI B16.1 class 125/150 and suitable for ANSI 150# flanges or AWWA class E flanges as required. All bodies shall incorporate flow arrows and traceability tags. All bodies shall be coated internally with NSF approved coatings unless manufactured of 316 stainless steel. All bodies shall incorporate lifting lugs.

**Discs:** All discs shall be A-36 carbon steel with double solid block hubs. Support ribs in line with the flow. Discs shall be NSF coated with minimum 3 mil thickness or approved coatings. All discs shall be tangentially pinned to the shaft bolted in place and field replaceable by means of taper pins.

**Shafts:** All shafts shall be one piece, 316 stainless steel, and supported by external replaceable roller bearings. Shafts shall be designed for zero deflection at full delta-P and velocity at the point of bearing support. Shafts shall incorporate one keyway in line with the disc and the body housing at both ends of the shaft. Valve body shaft journals shall not guide or support the

shaft more than 0.25" in the body and contain a Duralon material to prevent galvanic corrosion. Shaft ends shall accommodate limit switches for future field mount installation. Dual thrust bearings for shaft location shall be incorporated.

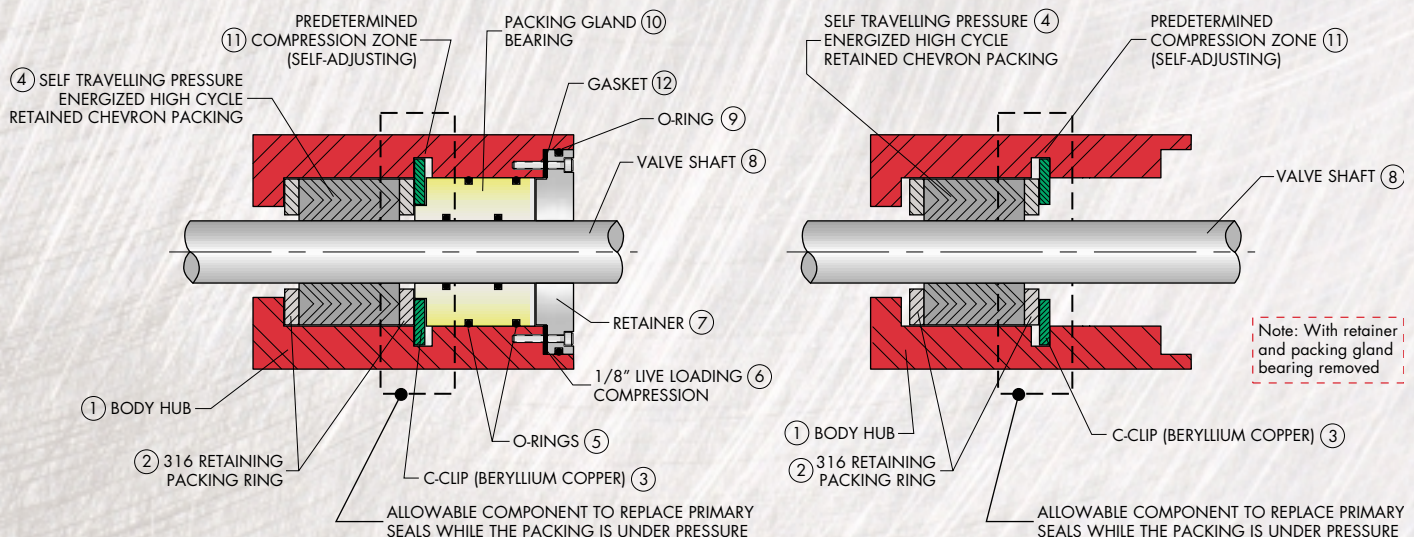
**Packing & Seals:** Retained live loaded dual packing shall be incorporated by means of an upper o-ring housing in both shaft housings. The chevron packing will not require adjustment and shall be live loaded and mechanically retained under full pressure with the back-up o-ring sleeve removed. Dual O-Ring sleeves shall be incorporated, housing two inner, two outer viton o-rings in non-metallic non-corrosive sleeves. The O-Ring sleeves will be considered as no load bearings. Both hubs containing the O-Ring seals shall not require adjustment and be replaceable without dewatering the system or removing the valve from service.

**Bearings:** Permanently lubricated dual external roller bearings shall be incorporated and field replaceable without dewatering the system or removing the valve from service. External bearings shall be capable of twelve times the shear strength of the shaft. Internal bearings are not acceptable. All bearings shall be suitable for a corrosive environment.

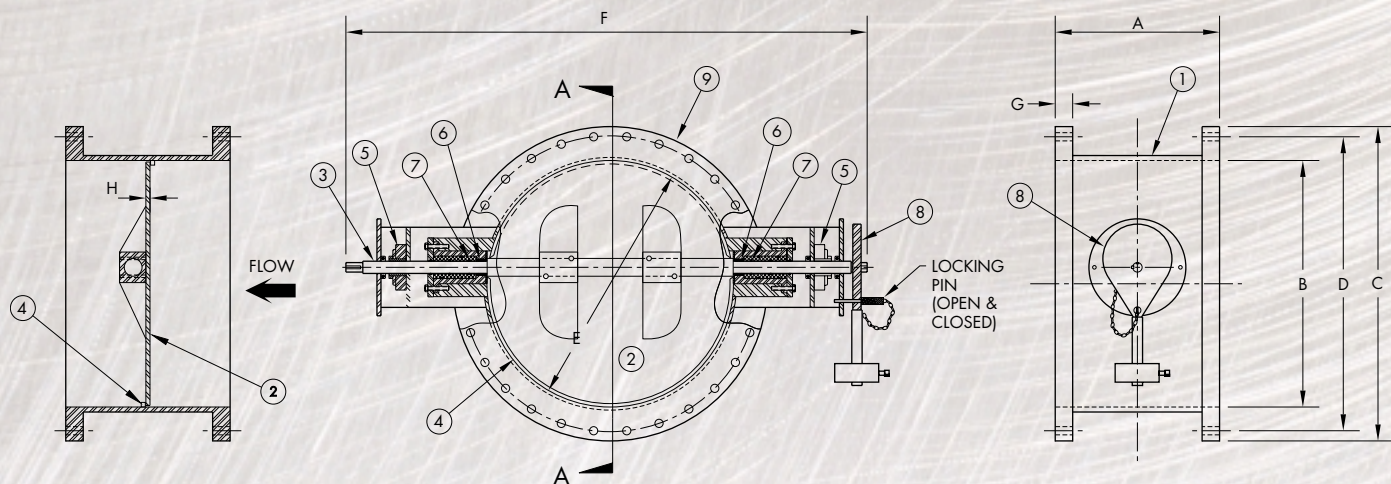
**Seats:** All valves shall incorporate seats made of the same material as the body and disc unless resilient seats are added as an option.

STANDARD FEATURES	BENEFITS
1. Dual external roller bearings	1. Bearings are not exposed to the media and easily replaced
2. Low cost manufacturing	2. Fabricated to meet face-to-face dimensions as required for Industrial/Municipal applications
3. Low headloss, high capacity	3. High flow off-set disc and shaft design
4. Maintenance free bearings	4. External bearing, shaft seizure is eliminated
5. Replaceable VITON O-Ring seals housed in non-metallic no load sleeves	5. O-Ring seals are replaceable without dewatering the pipe
6. Dual adjustable counter weights	6. Twin counter weight (both sides)
7. Dual counter weighted shafts	7. Adjusts opening and closing speed
8. Emergency O-Ring seals on journal	8. No leakage to atmosphere
9. Material selection for potable water application	9. Elimination of stress attack on materials under stress from chlorine or chloramines. Use of special c-clips

### ROTARY OR LINEAR (Stealth IBC)







SECTION A-A

### Dimensions

Valve Size		A	B	C	D	E	F	G	H	Shaft Dia.	Weight	
Inches	mm										Lbs	Kg
20	500	20.00	20.00	27.50	25.00	19.00	48.00	1.13	0.50	2.00	420	191
24	600	20.00	24.00	32.00	29.50	23.00	52.00	1.13	0.50	2.50	632	287
30	750	20.00	30.00	38.75	36.00	29.00	58.00	1.13	0.50	3.00	747	340
36	900	30.00	36.00	46.00	42.75	35.00	64.00	1.50	0.50	3.00	897	408
42	1050	42.00	42.00	53.00	49.50	41.00	79.00	1.50	0.50	3.25	1345	611
48	1200	42.00	48.00	59.50	56.00	46.00	88.00	1.625	0.625	3.50	1523	692
54	1350	42.00	54.00	66.25	62.75	52.00	98.00	1.625	0.625	3.75	1732	787
60	1500	60.00	60.00	73.00	69.25	58.00	114.00	1.50	0.625	4.00	1987	903

### Standard Bill of Materials

1	Body	A-36 Carbon Steel
2	Disc	A-36 Carbon Steel
3	Shaft	316 Stainless Steel
4	Seat	Metal
5	Bearings	External Permanently Lubricated Roller
6	Seals	Chevron – V Type Self Contained Live Loaded
7	O-Rings	Viton
8	Cover Arm	A-36 Carbon Steel
9	Coating	NSF Approved

Valve I.D. to Suit Pipe I.D.

Flange Drilling To ANSI B16.5 or customer requirements

### Temperature Rating:

Maximum Temperature 250°F/121°C

### Pressure Rating:

Maximum Pressure: 150 PSIG, Test Pressure 225 PSIG  
1034 kPa 1551 kPa



### Options:

- Position Indicators
- Retransmission Modules
- Automation
- Stainless Steel Body/Disc
- Resilient Seats: EPDM, Viton
- Special face to face dimension
- Adjustable travel stops

### Cv Values

Valve Size		90°	80°	70°	60°	50°	40°	30°	20°	10°
Inches	mm	Open	Open	Open	Open	Open	Open	Open	Open	Open
20	500	24573	19941	13789	7573	4990	2953	1755	695	76
24	600	36469	28817	20059	11702	7658	4499	2626	1131	275
30	750	57687	45583	31728	19175	12461	7505	4385	1817	445
36	900	84798	63247	44095	26556	17129	10377	6530	3053	784
42	1050	113288	88426	60042	37117	23111	13777	8667	3852	830
48	1200	146177	115506	77474	46484	29966	18031	11402	5116	1084
54	1350	185570	146634	98352	59011	38041	22890	14474	6494	1377
60	1500	209000	163240	112200	66992	43340	25970	15950	7040	1569





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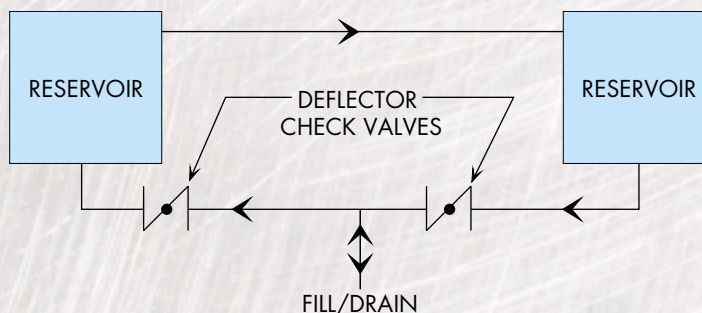
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## SDCV ORDERING CHART

Type <b>SDVC</b>		Size <b>1 2</b>		Style <b>W</b>		Material of Construction				Coating <b>4</b>		Actuator <b>3</b>	
		Size	Code	Style	Code	Body <b>1</b>	Disc <b>1</b>	Shaft <b>1</b>	Seat <b>1</b>	Coating	Code	Actuator	Code
		24"	24	Wafer	W	Body:	A-36 Carbon Steel		1	Fused Epoxy	1	Gear	1
		30"	30	Flanged	F		316 SS		2	Powder Coating	2	Twin Lever	2
		36"	36		WF		Special		3	NSF Epoxy	3	Twin Weight	3
		42"	42		WE	Disc:	A-36 Carbon Steel		1			Manual	4
		48"	48		FP		316 SS		2			Declutchable	5
		54"	54				Special		3			Override	6
		60"	60			Shaft:	316 SS		1				
							17-4 PH		2				
						Seat:	A-36 Carbon Steel		1				
							316SS		2				
							EPDM		3				
							Viton		4				

### Other Stealth Products:

- Stealth IBC Energy Dissipating Valve 8"– 90"
- Stealth Torque Tubes
- Stealth Shaft Extensions
- Stealth Rod Extensions
- Stealth Mud Valves 4"– 12"
- Stealth Damper Valves 3"–72"



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sales@stealthvalve.com



www.stealthvalve.com

• 24 HOUR EMERGENCY VALVE RESPONSE • 416 945 1258 •

ONTARIO – 1273 North Service Road East, Unit F6, Oakville ON L6H 1A7 – TEL 905 845 4500 • FAX 905 845 4505  
2520c St. Laurent Boulevard, Suite 102, Ottawa ON K1H 1B1 – TEL 613 739 4626 • FAX 613 739 1679  
BRITISH COLUMBIA – TEL 604 632 4657 • FAX 604 632 4658

QUEBEC – 3460 Poirier, St. Laurent QC H4R 2J5 – TEL 514 332 4260 • FAX 514 331 3924 • TOLL FREE 1 800 361 5571

