

ISO Registered Company

MODEL SCV-S

SANITARY GLOBE-STYLE CONTROL VALVES

The Model SCV-S is a **throttling**, pneumatically actuated control valve. This design provides a geometrically characterized plug for superior **throttling** dynamics, plus the unit's ease of cleanability and maintenance meet the requirements of sanitary control valves.

FEATURES

Design Concept:	A control valve for throttling applica- tions.
Two Body Configurations:	Traditional straight-thru globe pattern, or angle body pattern, both self-draining. Forged 316L SST or barstock 316L SST body material; barstock 316L SST bonnet material.
Multiple Ports:	Both full and reduced port designs to optimize dynamic response.
Characteristic:	Linear.
Dual Stem Seal:	Two spring-energized stem seals ensure sealing against ingress of contaminants and egress of contained fluid. Available in two materials.
Polished Interior:	Interior of wetted surfaces mechani- cally polished and electro-polished to 10 micro-inch R _a finish.
Exterior Finish:	SST portions of body electro-polished. All other metallic exposed surfaces are of SST or coated with epoxy.
Readily Accessible:	Unit can be easily and quickly disas- sembled in-line for inspection. Quick disconnect body-to-bonnet joint.
Cleaning Capability:	Unit designed for clean-in-place (CIP) and steam-in-place (SIP) systems.

MODEL SCV-S Straight-Globe Pattern with C27 Actuator

APPLICATIONS

Used in pharmaceutical and biotechnical industries in production of shear sensitive microorganisms and many health care products for both human and animal consumption. Suitable for processed food and cosmetics production.

Would be found supporting fermenters, batching tanks, cookers, dryers and other similar sanitary equipment. Suitable in WFI (Water for Injection) systems.

Model SCV-S was designed primarily for clean steam service, and is applicable in saturated steam up to 150 psig (10.3 Barg), or superheated steam up to 150 psig (10.3) Barg) and 366°F (186°C) continuous service.

Also available for liquid or gas applications for temperatures up to 250°F (186°C) as a "food grade" product.

STANDARD/GENERAL SPECIFICATIONS

Body Sizes:	<u>Full Port</u> $- 3/4"$ (DN20),	Flow C	apacity:	Per ISA 7 3 and 4.	5.11.01	standar	d. See	Tables
	Opt-12 Reduced Port – 1" (DN25) and 1-1/2" (DN40).	Rangea	ability:	30:1 (FTO	30:1 (FTO only).			
Body Form:	Straight-Globe and Angle-Globe.	Flow D	irection	FTO – Flov for FTC di	w-to-Ope rection.)	en. (Not	recomm	ended
End Connections:	Standard: Sanitary "Tri-Clamp®". De-	Body	y Size	Port	Straight		Angle	
	signed to seal against weld type clamp	in	(DN)	Size	Cv	kv	Cv	kv
	<u>Optional</u> : Butt weld (Opt-24).	3/4"	(20)	Full	2.8	2.4	3.8	3.3
Inherent		4.1	(05)	Full	6.0	5.1	7.5	6.5
Characteristic:	Linear.		(25)	Opt-12 Red.	3.5	3.0	5.0	4.3
Oneveting		1-1/2"	(40)	Full	11.8	10.1	13.5	11.6
Pressure	Function of actuator bench set range:		(10)	Opt-12 Red.	6.5	5.6	8.0	6.9
Range: Operating Temperature	Full vacuum to +150 psig (Full vacuum to +10.3 Barg) Up to +366°F (186°C); function of Trim Designation No. applied. Minimum – 0°F (-17°C)	Seat Le	eakage: or:	 Per ANSI/FCI 70-2. Metal seated – Class IV. Composition seated – Class VI. Spring-Diaphragm type; multi-spring. Field reversible. <u>Direct</u>: ATC-FO; <u>Reverse</u>: ATO-FC. 				g. Field
Range:	(-17 0).							
Maximum Operating Pressure Drop: ® Registered Tradena	Function of actuator bench range: Up to 150 psid (10.3 Bard). See Table 2 ame, Alfa-Laval Group, Tri-Clover Division.			<u>Direct</u> : I actuator <u>Reverse</u> actuator <u>ATC-FC</u> <u>ATO-FC</u> Standar 60534-6 position	ncrease stem. 2: Increas stem. 2: Air-to-(2: Air-to-(4 Actuat 6-1 for m ers.	in air "L e in air" Close, F Open, F or com nounting	LOAD" e LOAD"r Fail Ope Fail Clos pliant w g standa	xtends etracts n; ed; ith IEC ardized
		Paintin	ig:	<u>Standard</u>	– All no	on corro	osion re	sistant

Maximum CIP

Conditions:



FIGURE 1 – Straight body w / Composition Plug



portions are powder coated per Spec. S-1743 and /or with corrosion resistant epoxy paint per Cashco Spec #S-1606.

Recommended: Maximum cleaning fluid pressure – 50 psig (3.4 Barg).

Alternate: See Opt-95.

CIP - Clean-in-Place.

FIGURE 2 – Angle Body w / Metal Plug

BODY TECHNICAL SPECIFICATIONS

Port Size, Stroke:

Port Size							
Nom Body	Nominal Body Size		Full		Opt-12 Reduced		ninal oke
in	(DN)	in	(mm)	in	(mm)	in	(mm)
3/4"	(20)	.500	(12.7)				
1"	(25)	.688	(17.5)	.500	(12.7)	.75	(19.0)
1-1/2"	(40)	1.000	(25.4)	.688	(17.5)		

NOTE: Trim is interchangeable based on port size as each has the same stroke; i.e. 1" (25.4mm)- reduced port trim will directly transfer to 3/4" (19.1 mm)- full port, either angle or straight pattern.

Installation **Orientation:**

Details:

Internal surfaces sloped and oriented to give "self-draining" with valve plug "open" when installed per Figure 3.

End Connection Standard: For mating to piping with quick couple, mechanical joints; Alfa-Laval "Tri-Clamp". See Figure 4.



FIGURE 3: **Installation Orientation**

Nominal		Dimensions for Fig. 4							
Body Size		ID		OD		D1			
inch	(DN)	inch	(mm)	inch	(mm)	inch	(mm)		
3/4"	(20)	0.625	(15.9)	0.98	(24.9)	0.80	(2.3)		
1"	(25)	0.856	(21.7)	1.984	(50.4)	1.738	(44.1)		
1-1/2"	(40)	1.356	(34.4)	1.984	(50.4)	1.738	(44.1)		

Nominal	Dimensions for Fig. 5							
Body Size	ID	OD	t	C1	C2			
Inch	inch	inch	inch	inch	inch			
(DN)	(mm)	(mm)	(mm)	(mm)	(mm)			
3/4"	0.620	0.750						
(20)	(15.7)	(19.1)						
1"	0.870	1.000	.065		0.75			
(25)	(22.1)	(25.4)	(1.65)	(17.5)	(19.0)			
1-1/2"	1.370	1.500]	(17.5)				
(40)	(34.8)	(38.1)						
NOTE: Tube	e ends are f	or 16 Ga. tul	be.					



FIGURE 4: Std. "Tri-Clamp" End Connection



FIGURE 5: Opt-24 Butt Weld End Connection

BODY SUB-ASSEMBLY MATERIAL SPECIFICATIONS

Body:	Forged, ASTM F182, Gr. F316L (316L SST). Barstock - 316L SST; ASTM A479, S31603	Stem Seal:	Dual – Upper and lower. TDN S89LF utilizes o-ring seals with vented mid-zone. All other TDN's
Bonnet:	Barstock - 316L SST; ASTM A479, S31603, annealed.		with non-vented mid-zone. <u>Materials</u> – Selected with Trim Des-
Plug/Stem Assembly:	Barstock - 316L SST; ASTM A479, S31603, annealed. See Table 5.		ignation Number. Function of service fluid and maximum temperature. See Table 5.
Wetted Surface Finish:	Mechanically polished with 240 grit compound; manually polished where required. Electro-polished. Final sur- face is 10 micro-inch R _a . Final cleaning per Cashco Specification #S-1576.	Bonnet Clamp:	Alfa-Laval Group, Tri-Clover Div., "Tri- Clamp"; 304 SST electro-polished. Two-piece clamp with SST bolt/nut fasteners.
wGasket:	Expanded PTFE.	NO	TE: TDN = Trim Designation Number.

ACTUATOR TECHNICAL SPECIFICATIONS

Ambient

Temperature Range:

Size, Stroke, & Volume:

Actuator	Dia	Diaph. Nomi Area Stro		ninal		Volumes			
Model	Α			Stroke		Clea	Clearance		Displacement
woder	in²	(cm ²)	in	(mm)		in ³	(cm ³)	in³	(cm³)
007	C27 32 (209)	(200)		(10)	ATC	25.8	(422)	25.4	(416)
C27		0.75 (19)	ATO	24.4	(399)	24.1	(394)		

Bench Set Range:

	Bench Range		Air Pressure				
Actuator Model			Normal		Design Max		
mouor	psig	(Barg)	psig	(Barg)	psig	(Barg)	
C27	5-15	(.34-1)	20	(1.4)	100	(6.0)	
	15-60	(1-4.1)	75	(5.2)	100	(6.9)	

ACTUATOR SUB-ASSEMBLY MATERIAL SPECIFICATIONS

Part	Material
Diaphragm	Buna-N w/Polyester Insert
Lower & Upper Case, Yoke	Steel
Attachment Hub	17-4 PH SST
Stem	316/316L SST
Diaph. Washer O-ring, Hub O-ring, Stem O-ring	Buna-N

Part	Material
Diaphragm Washer	316/316L SST
Diaphragm Plate, Stem Spacer, Spring Plate, Hub Nut, Stem Bolt, Stem Lock Washer	Steel
Bolts & Nuts	Steel Plated
Spring	Epoxy Coated Steel

-50° to +180°F

(-45° to +82°C).

OPTION SPECIFICATIONS

- Option-3: MANUAL HANDWHEEL. Overrides the actuator spring force to allow manual stroking of the valve. Single acting design, side-mounted handwheel. For <u>ATO-FC</u> action, handwheel operator "opens" the valve against spring force; may be utilized as a travel stop to prevent full closure. For <u>ATC-FO</u> action, handwheel operator "closes" the valve against spring force; may be utilized as a travel stop to prevent full opening.
- Option-12: <u>REDUCED PORT</u>. Standard full port body is replaced with an alternate body with its <u>integral</u> reduced port. See Pg. 3, "Port Size & Stroke" for actual port size. <u>NOTE</u>: To convert from one port size to the other port size for a given body size requires that the body be replaced as well as the plug/stem/ diaphragm sub-assembly.

Option-24:

Option-68:

<u>BUTT WELD END CONNECTIONS</u> <u>– 16 Ga</u>. Alternate to "Tri-Clamp" mechanical quick connect end connections. For connecting to 16 Ga. OD tubing. For butt weld jointing using automatic orbital welding process. Dimensions for the standard Opt-24 butt weld are indicated in Figure 5 on page 3; for butt welds of different dimensions consult factory.

QUICK DISCONNECT STEM CON-NECTOR. Standard threaded engagement stem connector is replaced with spring-loaded quick disconnect for fast uncoupling between actuator and body assemblies.



Option-95:

<u>EPOXYPAINT:</u> Special epoxypainting of all non-corrosion resistant external surfaces per Cashco Spec #S-1547. Utilized in harsh atmospheric conditions.

MOUNTED ACCESSORY SPECIFICATIONS

Positioners:	General: PMV Positioners. Aluminum housing with corrosion resistant powder coated epoxy. Pneumatic output load as required by actuator bench range	Air Tubing:	Instrument air tubing SST with SST fittings.		
	Field reversible action. Mounting di- mensions per IEC 60534-6-1 Standard.	Airset:	Model 5200P instrument air supply regulator. Use with positioners. Bracket mounted to actuator casing. Supplied		
	<u>P/P Pneumatic</u> : Model P5 features SST cam with a simple cam locking device, tapped exhaust port for venting		with gauge. See technical bulletin 5200P-TB.		
	media, external zero adjustment. Input signal 3-15 psig, Includes gauge ports, no gauges. Analog only.	Solenoid Valve:	Standard Brass: Available in standard weather-proof model. Brass body, 1/4" female NPT connections. Nipple		
	<u>I/P Electro-Pneumatic</u> : Model D20 Digital or Hart compatible. Features single button self-calibration. input sig- nal 4-20mA. Optional gauge block with gauges for Models D20 D and D20 L		60 Hz power supply, CSA Approved Class 3221-01, NEMA 2,3,3S,4,4X. 8" HF utilizes a direct mount NAMUR mount style.		
	Model D20 D is general purpose. Model D20 I is Intrinsically safe, ATEX Ex ia IIC T4, FM CLS 1 DIV 1, FM Non- incendive CLS 1 DIV 2. Model D20 E is ATEX EEX d IIB+H ₂ , T6 FM Approved. Gauge block is built in no gauges. Not available with limit		X-Proof or SST construction: Consult Factory.		
			Standard installation vents actuator and drives valve to fail-safe position upon loss of electrical power.		
	switch option. Model D3 Digital, Hart, Profibus, or Field- bus compatible. Input signal 4-20mA. Features large graphic display. Optional gauge block for Models D3 X and D3 I, no gauges. Model D3 X is general purpose. Model D3 I is Intrinsically safe, ATEX EEX ia IIC T4. Model D3 E is ATEX EEX d IIB+H ₂ , T6		Consult factory for 230/1/50, or 120 VDC power supplies, or intrinsically safe (IS) service.		
		Transducers:	FM, CSA approved NEMA 4X Cl 1, Div 1 and Cl 1, Div 2		
		Other Accessories:	764 P/PD pressure controller. Lockup valve. Position transmitter.		
	FM CLS 1 DIV 1 Gauge block is built in, no gauges. Not available with limit switch option.	Limit Switches:	Model D20 and D3 positioners, switches are available, unit is enclosed in the positioner housing.		
	Model PS2 Hart, Fieldbus and Profibus compatible. Input signal 4-20mA. Fea- tures a Makrolon housing, (Aluminum for Explosion Proof.) Mounting dimensions per IEC 60534-6-1 Standard. Model PS2-1 is general purpose. Model PS2-2 is Intrinsically safe, ATEX Ex ia IIC T6/T4, FM CLS 1 DIV 1, CSA CLS 1 DIV 1, SIL 2 Model PS2-3 EX d IIC T6/T4, SIL 2 All I/P positioners not available with		Limit switch options not available on Explosion proof rated positioners.		

764's.

TECHNICAL SPECIFICATIONS

TABLE 1 MAXIMUM PRESSURE VS. TEMPERATURE RATINGS

Body	y Size	End Connection	Pressure		Temperature	
in	(DN)	End Connection	psig	(Barg)	°F	(°C)
3/4"	(20)	Std. "Tri-Clamp®"				
1"	(25)	or	150	(10.3)	366	(186)
1-1/2"	(40)	Opt24 Butt Weld				

TABLE 2 MAXIMUM PRESSURE DROP – psid (Bard) ATO-FC; REVERSE ACTION ATC-FO; DIRECT ACTION FTO DIRECTION

Body Size		Port-Orifice			Maximum Operating			Actuator		Air Supply	
		Description	Size		Pressure Drop		Seat	Bench Settings		Pressure	
in	(DN)	Description	inch	(mm)	psid	(Bard)		psig	(Barg)	psig	(Barg)
3/4"	(20)	Full	0.500	(12.7)				5-15	(.34-1.0)	20	(1.4)
4.11	(25)	Full	0.688	(17.5)	150	(10.3)	Comp/Metal				
		1-Step Reduced	0.500	(12.7)							
		Full	1.000	(25.4)	46	(3.2)	Metal				
1.1/0"	(40)				126	(8.7)	Comp				
1-1/2	(40)				150	(10.3)	Comp/Metal	15-60	(1.0-4.1)	75	(5.2)
		1-Step Reduced	0.688	(17.5)	150	(10.3)	Comp/Metal	5-15	(.34-1.0)	20	(1.4)
NOTE: Steam service with S36L Trim is 30 psid (2.1 Bard). Application Note: Consult factory for applying these valves with an I/P Transducer without a positioner. Pressure drop levels may be reduced.											

TABLE 3 Cv CAPACITY STRAIGHT–GLOBE $F_L = 0.9$

Body Size		Dort Description		Cv @ % Travel									
in	(DN)	Port Description	Min.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
3/4"	(20)	Full	0.1	0.7	1.2	1.6	2.0	2.2	2.4	2.5	2.6	2.7	2.8
4"	(25)	Full	0.2	1.0	1.6	2.1	2.8	3.4	3.7	4.3	5.1	5.7	6.0
		Opt-12 Reduced	0.1	0.7	1.2	1.6	2.0	2.3	2.7	3.0	3.3	3.4	3.5
1-1/2"	(40)	Full	0.4	2.0	3.1	4.3	5.3	6.7	8.2	9.0	10.3	11.1	11.8
		Opt-12 Reduced	0.2	1.0	1.7	2.3	2.8	3.3	3.9	4.5	5.5	5.6	6.2

TABLE 4 Cv CAPACITY ANGLE-GLOBE $F_L = 0.9$

Body Size		Dest Deservition		Cv @ % Travel									
in	(DN)	Port Description	Min.	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
3/4"	(20)	Full	0.1	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.4	3.8
4.1	(25)	Full	0.2	0.8	1.6	2.3	2.9	3.8	4.4	5.3	6.1	6.8	7.5
		Opt-12 Reduced	0.1	0.6	0.9	1.4	1.9	2.5	2.9	3.5	3.9	4.5	5.0
1-1/2"	(40)	Full	0.4	1.4	2.6	4.1	5.5	6.8	8.0	9.5	10.7	12.2	13.5
		Opt-12 Reduced	0.2	0.8	1.5	2.5	3.3	4.0	4.7	5.6	6.5	7.1	8.0

TABLE 5
TRIM MATERIALS vs. DESIGNATION NUMBERS

Dout Description	Metal	Seat	GF-TFE Seat	V-TFE Seat		
Part Description	S1L S1LF		S36L	S89LF		
Plug	316L SST	316L SST	316L SST	316L SST		
Stem			316L SST	316L SST		
Nut				SST		
Pin			TFE	TFE		
Seat Disc			GF-TFE	V-TFE		
Stem Seal	316 SST + Carbon Filled TFE	16 SST + Carbon Filled 316 SST + V-TFE TFE (Food Grade)		FKM (Food Grade)		
Temperature Range	0° to +336°F -17° to +186°C	0° to +250°F -17° to +121°C	0° to +366°F -17° to +186°C	0° to +250°F -17° to +186°C		
Service	Steam	Gas or Liquid	Steam	Gas or Liquid		
GF-TFE = Glass Filled TFE V-TFE = Virgin TFE FKM = Fluorocarbon Elastomer						

DIMENSIONS & WEIGHTS



Weight (either body) approx 30 lbs. (13.6 kg)



FIGURE 7 Model SCV-S - Straight-Globe Body

NOTES

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MODEL SCV-S PRODUCT CODER 03/17/17

OPT-12

Reduced

CODE

С

D

POS 8

Tri-Clamp

Opt-24 Butt Weld



Body Size

in

3/4"

1'

1-1/2

(DN)

(20)

(25)

(40)

POS POS 5 6&7

Port Size

POSITION 3 - BODY / PORT SIZE

Full Port

CODE

5

6

8

	POS 11	POS PO 12 1)S 3					
POSITION 5 - END CONNECTION & PATTERN								
	Straight Globe	Angle Globe						
CONNECTION								

CODE

Α

в

CODE

G

н

POS

14

POS

15

POSITION 6 & 7 - TRIM DESIGNATION NO.	CODE
S1L	SL
S1LF	SF
S36L (GF-TFE Seat)	6L
S89LF (V-TFE Seat)	9F

POS

17

An "X" in POS 12 followed by a 5-digit control number overrides remaining selections.

POS

16

POSITION 8 - Product Classification Under European "Pressure Equipment Directive"						
PRODUCT DESTINATION	HAZARD CATEGORY	CODE				
Anywhere except Europe	N/A	7				
European Countries * (CE	Sound Engineering Practice (SEP)	s				
Mark does not apply to DN25 and below)	CE Marked Hazard Cat I or II	E				
* For products to be placed in service in Europe - Ref to						

Directive 2014/68/EU. Forward Completed "EU" Application Recorder prior to quotation. (Without Recorder- Processing of Purchase Order will be delayed). Contact Cashco for Assistance

POSITION 12 - 76/P * (Bracket Mtd)								
-Airset (Bracket Mtd) - SOLENOID VALVE								
Solenoid Valve ***								
ZCAD / Action	Exhau	Exhaust on Deenergization						
764P / Acuon	None	24 VDC						
Neee		CODE						
None	0	6	С					
Reverse **	2 8		E					
Reverse W/ Airset **	3	9	F					
Direct **	4	A	G					
Direct W/ Airset **	5	В	Н					
Special Construction Contact Cashco for Code	x							
* Refer to 764-TB for Product Code of Controller. ** Select Code 1 on Position 13 if positioner is needed. ***Selenoid rated as 4/4X only.								

POSITION 14 - GAUGE BLOCK							
Option for Positioner	Code						
None *	0						
Gauge Block **	1						
* For P5 gauge ports built in. No gauges. * For D20 E, D3 E & PS2-3 gauge block gauges ** For D20 D & D20 I and PS2-1 & PS2-2 with gauges. ** For D3 X & D3 I gauge block only - no ga	is standard. No 2 - gauge block auges.						

POSITION 16 - OPTIONS							
Accessories	CODE						
No Handwheel	0						
Handwheel	9						

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POSITION 11 - ACTUATOR ACTION/MODEL NO.										
Body Size	Bench Set		Bench Set		Stem	REVE ATO	RSE: -FC	DIRE ATC-	CT: FO	
in	psig	(Barg)	Connector	MODEL	CODE	MODEL	CODE			
	5-15	(0410)	Standard		A		В			
ALL		(.34-1.0)	Opt-68: Q.D.	007	Т	C27	V			
1.1/0"	15-60	(1-4.1)	Standard	627	С		D			
1-1/2"			Opt-68: Q.D.		W		Y			
NOTE: S	NOTE: See Table 2 in Tech Bulletin to confirm pressure drop limits.									
	O D = Ouick Disconnect									

POSITION 13 - DIRECT ACTING POSITIONER with AIRSET (Bracket Mounted) (3-15 psig) 4-20 mA Specify Split Range in Special Instructions on the P.O. Analog/Digital Fieldbus Profibus Positioner Hart Ratings Model CODE P5 P/P Gen. Purpose D20 D I/P Gen. Purpose С D D20 I I/P Intrinsically Safe 2 5 D20 E I/P *** Explosion Proof Е F D3 X I/P М Ρ Gen. Purpose L Ν D3 | I/P Intrinsically Safe 3 6 8 Α D3 E I/P *** Explosion Proof G н ы κ PS2-1 I/P Gen. Purpose R s Т PS2-2 I/P Intrinsically Safe 7 9 в PS2-3 I/P *** Explosion Proof U W ٧ None * 0

* Stock Item

** Actuator Assembly includes dimensions for (Namur) Mounting per IEC 60534-6-1. *** Not available with limit/proximity switch option. Select codes "9" or "8" in Pos. 15. **** Not available with options. Please select code "0" in Pos. 15.

POSITION 15 - POSITIONER OPTIONS								
Options	POSITIONERS			I/P TRANSDUCERS *				
	Inductive Limit Switches	Micro- switches Limit Switches	Position Transmitter	3-15 PSIG No Airset **	3-15 PSIG W/ Airset **	0-60 PSIG No Airset ***	0-60 PSIG W/ Airset	
	CODE							
P5				4	5			
D3 & D20	7	Т	9					
PS2			8					
No Positioner				с	F	R	S	
None	0							
* For 0.60 Paig Transducer places contact the factory								

sia Transducer pl se contact the factory

** If 5-15 psig Bench Range is selected in Pos. 11, codes R & S are invalid options. *** If 15-60 psig Bench Range is selected in Pos. 11, codes 4, 5, C & F are invalid options.

POSITION 17 - PAINTING & CLEANIN					

Painting	Option	Standard Cleaning	
		CODE	
Standard	—	0	
Epoxy Painted Per Cashco Spec #S-1547	-95	1	