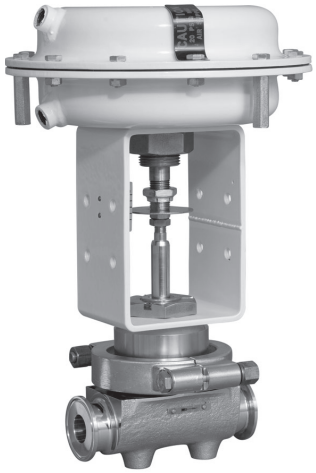
cashco®
ISO Registered Company

MODEL SCV-S

SANITARY GLOBE-STYLE CONTROL VALVES



MODEL SCV-S
Straight-Globe Pattern with C27 Actuator

OVERVIEW

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** applications.

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 mechanically 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 disassembled 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.

LINE SIZES AVAILABLE
3/4" (DN20), 1" (DN25), 1-1/2" (DN40)

END CONNECTIONS
SANITARY TRI-CLAMP, BUTT WELD

COMMON APPLICATIONS
PHARMACEUTICAL, BIOTECHNICAL, HEALTH CARE, PROCESSED FOOD, COSMETICS, BATCHING TANKS, COOKERS, DRYERS

DESIGN PRESSURE
OPERATING PRESSURE RANGE:
FULL VACUUM TO +150 psig (+10.3 Barg)

STANDARD/GENERAL SPECIFICATIONS

Body Sizes:
Full Port – 3/4" (DN20), 1" (DN25), 1-1/2" (DN40).
Opt-12 Reduced Port – 1" (DN25) and 1-1/2" (DN40).

Body Form:
Straight-Globe and Angle-Globe.

End Connections:
Standard: Sanitary "Tri-Clamp®". Designed to seal against weld type clamp liners per ISO 2852.
Optional: Butt weld (Opt-24).

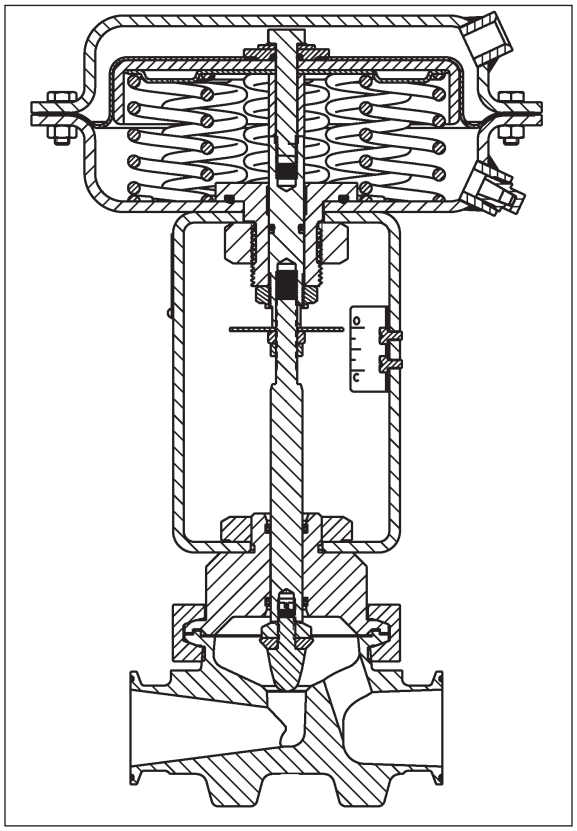
Inherent Characteristic:
Linear.

Operating Pressure Range:
Function of actuator bench set range:
Full vacuum to +150 psig
(Full vacuum to +10.3 Barg)

Operating Temperature Range:
Up to +366°F (186°C); function of Trim Designation No. applied. Minimum – 0°F (-17°C).

Maximum Operating Pressure Drop:
Function of actuator bench range:
Up to 150 psid (10.3 Bard).
See Table 2

® Registered Tradename, Alfa-Laval Group, Tri-Clover Division.



ATC-FO Actuator

FIGURE 1 – Straight body w / Composition Plug

Flow Capacity:
Per ISA 75.11.01 standard. See Tables 3 and 4.

Rangeability:
30:1 (FTO only).

Flow Direction:
FTO – Flow-to-Open. (Not recommended for FTC direction.)

Body Size		Port Size	Straight		Angle	
in	(DN)		Cv	kv	Cv	kv
3/4"	(20)	Full	2.8	2.4	3.8	3.3
1"	(25)	Full	6.0	5.1	7.5	6.5
		Opt-12 Red.	3.5	3.0	5.0	4.3
1-1/2"	(40)	Full	11.8	10.1	13.5	11.6
		Opt-12 Red.	6.5	5.6	8.0	6.9

Seat Leakage:
Per ANSI/FCI 70-2.
Metal seated – Class IV.
Composition seated – Class VI.

Actuator:
Spring-Diaphragm type; multi-spring. Field reversible.
Direct: ATC-FO; Reverse: ATO-FC.

Direct: Increase in air "LOAD" extends actuator stem.
Reverse: Increase in air "LOAD" retracts actuator stem.
ATC-FO: Air-to-Close, Fail Open;
ATO-FC: Air-to-Open, Fail Closed;
Standard Actuator compliant with IEC 60534-6-1 for mounting standardized positioners.

Painting:
Standard – All non corrosion resistant portions are powder coated per Spec. S-1743 and /or with corrosion resistant epoxy paint per Cashco Spec #S-1606.
Alternate: See Opt-95.

Maximum CIP Conditions:
CIP – Clean-in-Place.
Recommended: Maximum cleaning fluid pressure – 50 psig (3.4 Barg).

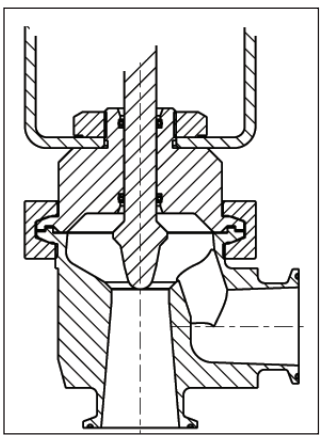


FIGURE 2 – Angle Body w / Metal Plug

BODY TECHNICAL SPECIFICATIONS

Port Size, Stroke:

Nominal Body Size		Port Size				Nominal Stroke	
		Full		Opt-12 Reduced			
in	(DN)	in	(mm)	in	(mm)	in	(mm)
3/4"	(20)	.500	(12.7)	---	---	.75	(19.0)
1"	(25)	.688	(17.5)	.500	(12.7)		
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: Internal surfaces sloped and oriented to give "self-draining" with valve plug "open" when installed per Figure 3.

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

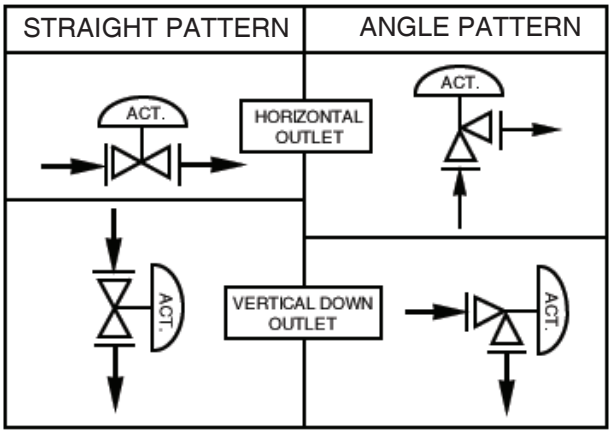


FIGURE 3:
Installation Orientation

Nominal Body Size		Dimensions for Fig. 4					
		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)

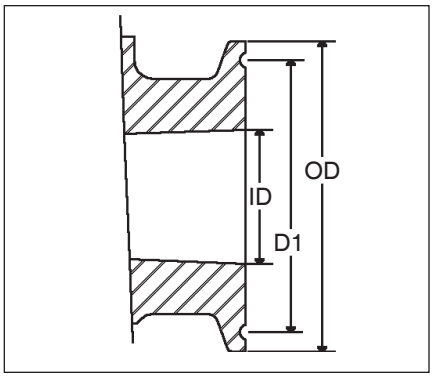


FIGURE 4: Std. "Tri-Clamp" End Connection

Nominal Body Size	Dimensions for Fig. 5				
	ID	OD	t	C1	C2
Inch (DN)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
3/4" (20)	0.620 (15.7)	0.750 (19.1)	.065 (1.65)	MIN. 1.69 (17.5)	0.75 (19.0)
1" (25)	0.870 (22.1)	1.000 (25.4)			
1-1/2" (40)	1.370 (34.8)	1.500 (38.1)			
NOTE: Tube ends are for 16 Ga. tube.					

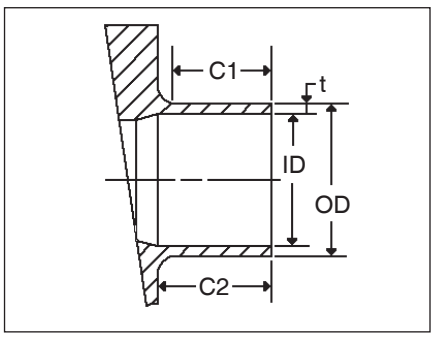


FIGURE 5: Opt-24 Butt Weld End Connection

BODY SUB-ASSEMBLY MATERIAL SPECIFICATIONS

Body: Forged, ASTM F182, Gr. F316L (316L SST). Barstock - 316L SST; ASTM A479, S31603

Bonnet: Barstock - 316L SST; ASTM A479, S31603, annealed.

Plug/Stem Assembly: Barstock - 316L SST; ASTM A479, S31603, annealed. See Table 5.

Wetted Surface Finish: Mechanically polished with 240 grit compound; manually polished where required. Electro-polished. Final surface is 10 micro-inch R_a. Final cleaning per Cashco Specification #S-1576.

wGasket: Expanded PTFE.

Stem Seal: Dual – Upper and lower. TDN S89LF utilizes o-ring seals with vented mid-zone. All other TDN's utilize spring-energized seals with non-vented mid-zone.

Materials – Selected with Trim Designation Number. Function of service fluid and maximum temperature. See Table 5.

Bonnet Clamp: Alfa-Laval Group, Tri-Clover Div., "Tri-Clamp"; 304 SST electro-polished. Two-piece clamp with SST bolt/nut fasteners.

NOTE: TDN = Trim Designation Number.

ACTUATOR TECHNICAL SPECIFICATIONS

Size, Stroke, & Volume:

Ambient Temperature Range: -50° to +180°F (-45° to +82°C).

Actuator Model	Diaph. Area		Nominal Stroke		Action	Volumes			
						Clearance		Displacement	
	in^2	(cm^2)	in	(mm)		in^3	(cm^3)	in^3	(cm^3)
C27	32	(209)	0.75	(19)	ATC	25.8	(422)	25.4	(416)
					ATO	24.4	(399)	24.1	(394)

Bench Set Range:

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

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

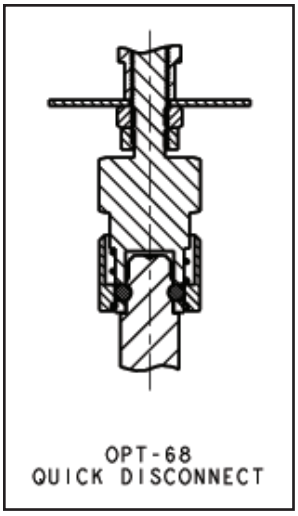
OPTION SPECIFICATIONS

Option-3: MANUAL HANDWHEEL. Overrides the actuator spring force to allow manual stroking of the valve. Single acting design, side-mounted handwheel. For ATO-FC action, handwheel operator "opens" the valve against spring force; may be utilized as a travel stop to prevent full closure. For ATC-FO action, handwheel operator "closes" the valve against spring force; may be utilized as a travel stop to prevent full opening.

Option-12: REDUCED PORT. Standard full port body is replaced with an alternate body with its integral reduced port. See Pg. 3, "Port Size & Stroke" for actual port size. NOTE: 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: BUTT WELD END CONNECTIONS – 16 Ga. 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.

Option-68: QUICK DISCONNECT STEM CONNECTOR. Standard threaded engagement stem connector is replaced with spring-loaded quick disconnect for fast uncoupling between actuator and body assemblies.



Option-95: EPOXY PAINT: Special epoxy painting 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. Field reversible action. Mounting dimensions per IEC 60534-6-1 Standard.

P/P Pneumatic: Model P5 features SST cam with a simple cam locking device, tapped exhaust port for venting media, external zero adjustment. Input signal 3-15 psig, Includes gauge ports, no gauges. Analog only.

I/P Electro-Pneumatic: Model D20 Digital or Hart compatible. Features single button self-calibration. input signal 4-20mA. Optional gauge block with gauges for Models D20 D and D20 A.
Model D20 D is general purpose.
Model D20 A is Intrinsically safe, Ex ia ATEX.
Model D20 E is ATEX EEX d IIB+H_2, T6 FM Approved. Gauge block is built in, no gauges. Not available with limit switch option.

Model D3 Digital, Hart, Profibus, or Fieldbus 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
CSA CLS 1 DIV 1
FM CLS 1 DIV 1
Gauge block is built in, no gauges. Not available with limit switch option.

Model PS2 Digital, Hart, Fieldbus and Profibus compatible. Input signal 4-20mA. Features 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 764's.

Air Tubing: Instrument air tubing SST with SST fittings.

Airset: Model 5200P instrument air supply regulator. Use with positioners. Bracket mounted to actuator casing. Supplied with gauge. See technical bulletin 5200P-TB.

Solenoid Valve: Standard Brass: Available in standard weather-proof model. Brass body, 1/4" female NPT connections. Nipple mounted to actuator casing. 120 VAC, 60 Hz power supply, CSA Approved Class 3221-01, NEMA 2,3,3S,4,4X. 8" HF utilizes a direct mount NAMUR mount style.

X-Proof or SST construction: Consult Factory.

Standard installation vents actuator and drives valve to fail-safe position upon loss of electrical power.

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.

Limit Switches: Model D20 and D3 positioners, switches are available, unit is enclosed in the positioner housing.

Limit switch options not available on Explosion proof rated positioners.

TECHNICAL SPECIFICATIONS

TABLE 1
MAXIMUM PRESSURE VS. TEMPERATURE RATINGS

Body Size		End Connection	Pressure		Temperature	
in	(DN)		psig	(Barg)	°F	(°C)
3/4"	(20)	Std. "Tri-Clamp®" or Opt.-24 Butt Weld	150	(10.3)	366	(186)
1"	(25)					
1-1/2"	(40)					

TABLE 2
MAXIMUM PRESSURE DROP - PSID (BARD)
CLASS IV SEAT LEAKAGE FOR METAL SEATED; CLASS VI SEAT LEAKAGE FOR COMPOSITION SEATED

LINE SIZE	PORT SIZE	ORIFICE SIZE		ACTUATOR			DIRECT ATO-FC & REVERSE ATC-FO			
				MODEL NO.	BENCH RANGE		METAL SEAT		COMP SEAT	
		INCH	(mm)		PSIG	(BARG)	PSID	(BARD)	PSID	(BARD)
3/4" (DN20)	FULL	0.500	(12.7)	C27	5-15	(0.34-1.03)	150	(10.3)	150	(10.3)
1" (DN25)	FULL	0.688	(17.5)	C27	5-15	(0.34-1.03)	150	(10.3)	150	(10.3)
	REDUCED	0.500	(12.7)	C27	5-15	(0.34-1.03)	150	(10.3)	150	(10.3)
1-1/2" (DN32)	FULL	1.000	(25.4)	C27	5-15	(0.34-1.03)	CF	CF	114	(7.8)
				C53	15-60	(1.03-4.14)	150	(10.3)	150	(10.3)
	REDUCED	0.688	(17.5)	C27	5-15	(0.34-1.03)	150	(10.3)	150	(10.3)

1) CF = Consult Factory where differential pressures are below 50 psid preventing seat leakage evaluation per Cashco S-1597 at 50 psid.
2) Excessive differntial pressures have been derated to the maximum allowable working pressure of 150 psig.
3) ATC-FO values for 5-15 psig bench range based on maximum 20 psig (1.4 barg) supply pressure with use of a positioner. ATC-FO values for 15-60 psig bench range based on maximum 75 psig (5.2 barg) supply pressure withuse of a positioner.
4) Steam service with 316L trim is 30 psid (2.1 Bard).

TABLE 3
Cv CAPACITY
STRAIGHT–GLOBE
F_L = 0.9

Body Size		Port Description	Cv @ % Travel										
in	(DN)		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**
1"	(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		Port Description	Cv @ % Travel										
in	(DN)		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**
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

Part Description	Metal Seat		GF-TFE Seat	V-TFE Seat
	S1L	S1LF	S36L	S89LF
Plug	316L SST	316L SST	316L SST	316L SST
Stem	--	--	316L SST	316L SST
Nut	--	--	SST	SST
Pin	--	--	TFE	TFE
Seat Disc	--	--	GF-TFE	V-TFE
Stem Seal	316 SST + Carbon Filled TFE	316 SST + V-TFE (Food Grade)	316 SST + Carbon Filled TFE	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

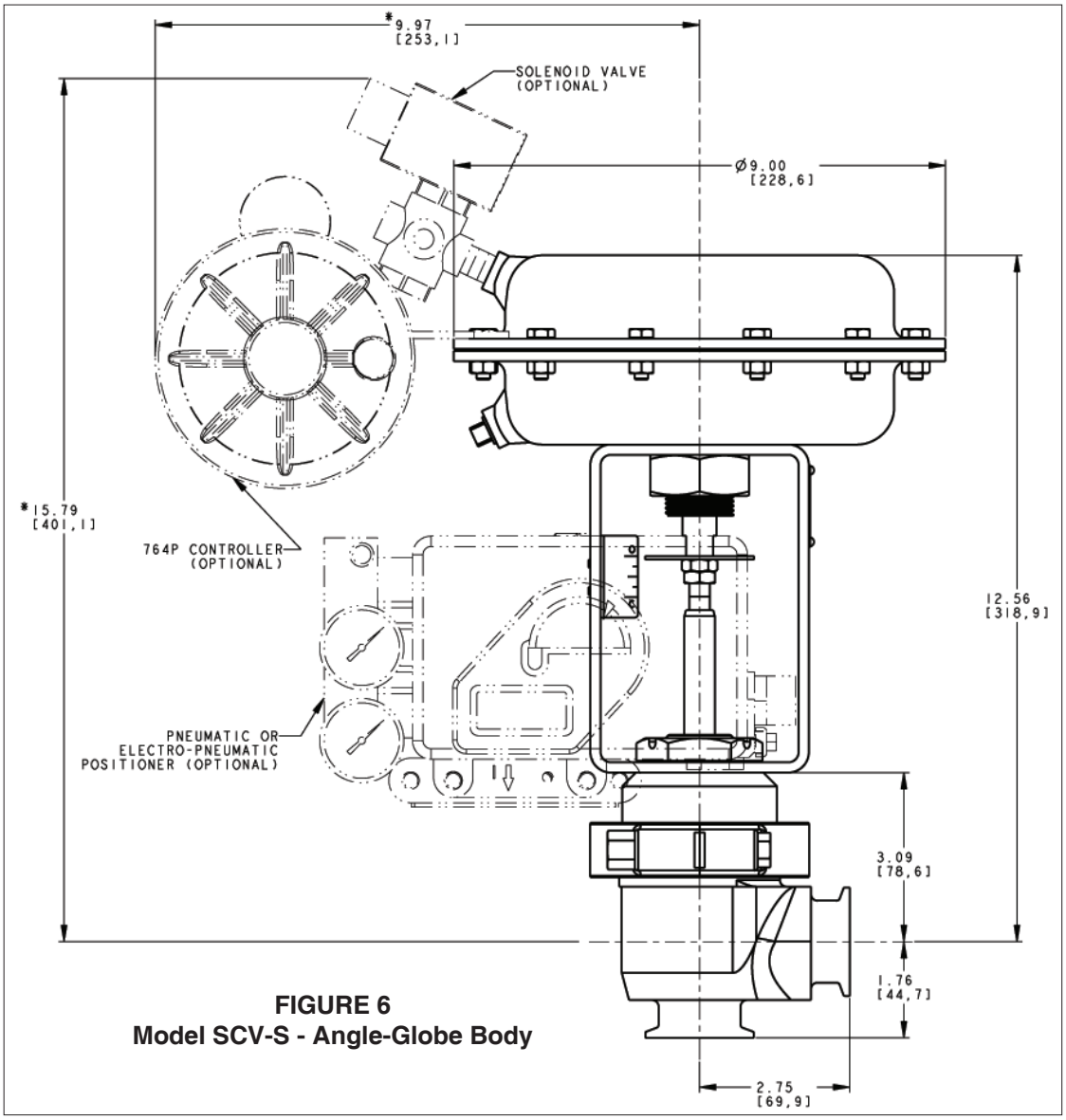


FIGURE 6
Model SCV-S - Angle-Globe Body

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

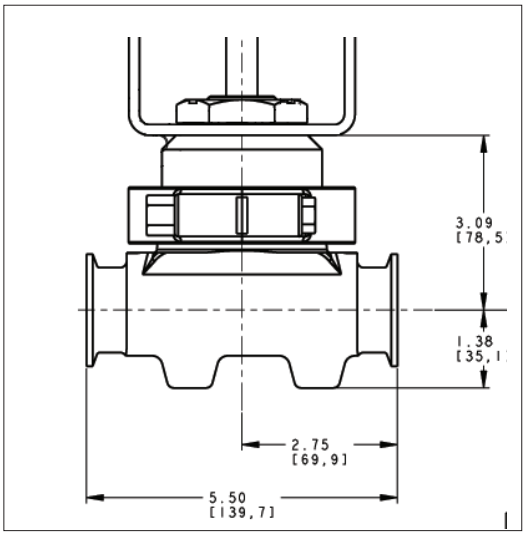


FIGURE 7
Model SCV-S - Straight-Globe Body

MODEL SCV-S PRODUCT CODER 12/02/20

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

S	S	POS 3	—	POS 5	POS 6 & 7	7	–	0	POS 11	POS 12	POS 13	POS 14	POS 15	POS 16	POS 17	C

POSITION 3 - BODY / PORT SIZE			
Body Size		Port Size	
		Full Port	OPT-12 Reduced
in	(DN)	CODE	CODE
3/4"	(20)	5	
1"	(25)	6	C
1-1/2"	(40)	8	D

POSITION 5 - END CONNECTION & PATTERN		
END CONNECTION	Straight Globe	Angle Globe
	CODE	CODE
Tri-Clamp	A	G
Opt-24 Butt Weld	B	H

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

POSITION 11 - ACTUATOR ACTION/MODEL NO.							
Body Size	Bench Set		Stem Connector	REVERSE: ATO-FC		DIRECT: ATC-FO	
in	psig	(Barg)		MODEL	CODE	MODEL	CODE
ALL	5-15	(.34-1.0)	Standard	C27	A	C27	B
			Opt-68: Q.D.		T		V
1-1/2"	15-60	(1-4.1)	Standard		C		D
			Opt-68: Q.D.		W		Y

NOTE: See Table 2 in Tech Bulletin to confirm pressure drop limits.
Q.D. = Quick Disconnect.

POSITION 12 - 764P * (Bracket Mtd) -Airset (Bracket Mtd) - SOLENOID VALVE			
764P / Action	Solenoid Valve *** Exhaust on Deenergization		
	None	120VAC 60 Hz	24 VDC
None	CODE		
	0	6	C
Reverse **	2	8	E
Reverse W/ Airset **	3	9	F
Direct **	4	A	G
Direct W/ Airset **	5	B	H
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.
*** Solenoid rated as 4/4X only.

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.					
Positioner Model	Ratings	Analog/Digital	Hart	Fieldbus	Profibus
		CODE			
P5 P/P *	Gen. Purpose	1			
D20 D I/P	Gen. Purpose	C	D		
D20 A I/P * ‡	Intrinsically Safe	2	5		
D20 E I/P *** ‡	Explosion Proof	E	F		
D3 X I/P	Gen. Purpose	L	M	N	P
D3 I I/P	Intrinsically Safe	3	6	8	A
D3 E I/P **** ‡	Explosion Proof	G	H	J	K
PS2-1 I/P	Gen. Purpose	Q	R	S	T
PS2-2 I/P	Intrinsically Safe	&	7	9	B
PS2-3 I/P ***	Explosion Proof	<	U	V	W
None **	0				

* Stock Item
** Actuator Assembly includes dimensions for (Namur) Mounting per IEC 60534-6-1.
*** D20E & PS2-3 are not available with limit/proximity switch option. Select codes "8", "9" or "0" in Pos. 15.
**** D3E Positioner is not available with options. Please select code "0" in Pos. 15.
‡ PMV Positioners are not FM Approved at this time. If you need FM Approval, please specify the Siemens PS2.

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 is standard. No gauges.
** For D20 D, D20E & D20 A and PS2-1 & PS2-2 - gauge block with gauges.
** For D3 X & D3 I gauge block only - no gauges.

*** For information on ATEX see pages 13 & 14 on the IOM.**

POSITION 15 - POSITIONER OPTIONS							
Options	POSITIONERS			I/P TRANSDUCERS *			
	[1] Inductive Limit Switches	[1] 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 [2]	7	T	9				
PS2			8				
No Positioner				C	F	R	S
None	0						

* For 0-60 Psig Transducer please 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.
[1] D20E & PS2-3 are not available with limit/proximity switch option. Select codes "9" or "8".
[2] D3E Positioner is not available with options. Please select code "0".

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Астрахань (8512)99-46-04
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