



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.

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 Traditional straight-thru globe pattern, or

Configurations: angle body pattern, both self-draining. Forged 316L SST body material; bar-

stock 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 Unit can be easily and quickly disas-Accessible: sembled in-line for inspection. Quick

sembled in-line for inspection. Quick disconnect body-to-bonnet joint.

Cleaning Unit designed for clean-in-place (CIP)

Capability: and steam-in-place (SIP) systems.

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).

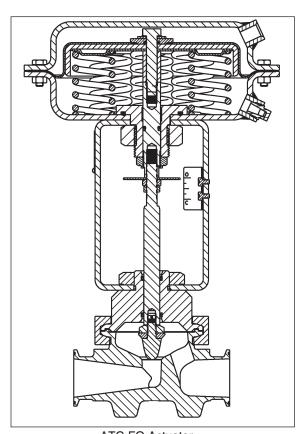
Maximum

Function of actuator bench range:

Up to 150 psid (10.3 Bard).

Operating Up to 150 ps 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	Strai	ght	Angle		
in	(DN)	Size	Cv	kv	Cv	kv	
3/4"	(20)	Full	2.8	2.4	3.8	3.3	
		Full	6.0	5.1	7.5	6.5	
1"	(25)	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).

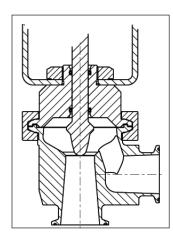


FIGURE 2 - Angle Body w / Metal Plug

BODY TECHNICAL SPECIFICATIONS

Port Size, Stroke:

			Port				
Nom Body		F	ull		ot-12 luced		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:

Internal surfaces sloped and oriented to give "self-draining" with valve plug "open"

when installed per Figure 3.

End Connection Details:

<u>Standard</u>: For mating to piping with quick couple, mechanical joints; Alfa-Laval "Tri-

Clamp". See Figure 4.

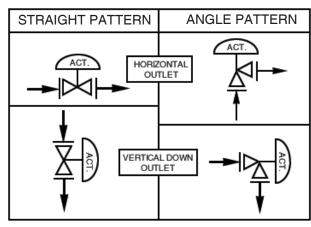


FIGURE 3: Installation Orientation

Nominal		Dimensions for Fig. 4								
Body	Size	II	D	0	D	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		Dime	nsions for	Fig. 5	
Body Size	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)		NAIN!	
1" (25)	0.870 (22.1)	1.000 (25.4)	.065 (1.65)	MIN. 1.69	0.75 (19.0)
1-1/2"	1.370	1.500]	(17.5)	
(40)	(34.8)	(38.1)			

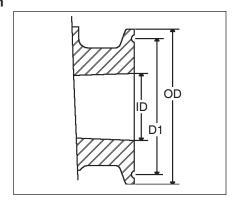


FIGURE 4: Std. "Tri-Clamp" End Connection

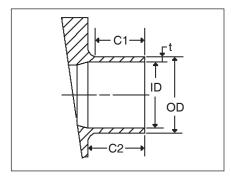


FIGURE 5: Opt-24 Butt Weld End Connection

BODY SUB-ASSEMBLY MATERIAL SPECIFICATIONS

Body: Forged, ASTM F182, Gr. F316L Stem Seal:

(316L SST).

Barstock - 316L SST; ASTM A479, Bonnet:

S31603, annealed.

Barstock - 316L SST; ASTM A479, Plug/Stem

Assembly: S31603, annealed. See Table 5.

Mechanically polished with 240 grit **Wetted Surface** Finish:

compound; manually polished where required. Electro-polished. Final sur-

face is 10 micro-inch R_a. Final cleaning

per Cashco Specification #S-1576.

Expanded PTFE. Gasket:

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.

Alfa-Laval Group, Tri-Clover Div., "Tri-**Bonnet Clamp:**

Clamp"; 304 SST electro-polished. Two-piece clamp with SST bolt/nut

fasteners.

NOTE: TDN = Trim Designation Number.

ACTUATOR TECHNICAL SPECIFICATIONS

-50° to +180°F Size, Stroke, & Ambient Volume: **Temperature Range:** $(-45^{\circ} \text{ to } +82^{\circ}\text{C}).$

Actuator	Dia	aph.	Nominal				Volumes					
Actuator Model	Area		Stroke		Action	Clea	rance	Displacement				
Wodei	in²	(cm²)	in	(mm)		in³	(cm³)	in³	(cm³)			
C27	20	(200)	0.75	(10)	ATC	25.8	(422)	25.4	(416)			
02/	32 (209) 0		0.75 (19)		ATO	24.4	(399)	24.1	(394)			

Bench Set Range:

_	Ве	nch	Air Pressure					
Actuator Model	Ra	nge	No	rmal	Design Max			
	psig	(Barg)	psig	psig (Barg)		(Barg)		
C27	5-15	(.34-1)	20	(1.4)	100	(6.9)		
021	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

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 <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.

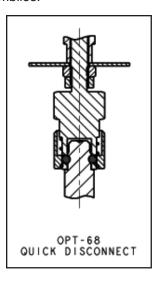
Option-24:

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:

<u>EPOXY PAINT:</u> 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.

<u>I/P Electro-Pneumatic</u>: 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 I. **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+H₂, T6 FM Approved. Gauge block is built in, no gauges.

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+H₂, T6 CSA CLS 1 DIV 1 FM CLS 1 DIV 1 Gauge block is built in, no gauges.

Model PS2 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

CSA CLS 1 DIV 1, SIL 2 Model PS2-3 EX d IIC T6/T4, SIL 2 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 764 P/PD pressure controller.

Accessories: Lockup valve.

Position transmitter.

Limit Switches: Model D20 and D3 positioners, switches

are available, unit is enclosed in the

positioner housing.

TECHNICAL SPECIFICATIONS

TABLE 1 MAXIMUM PRESSURE VS. TEMPERATURE RATINGS

Body	/ Size	End Connection	Pres	sure	Tempe	erature
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

Bods	/ Size	Po	rt-Orifice		Maximum	Operating		Actu	ıator	Air Supply	
Body	Size	Description	Si	ze	Pressu	re Drop	Seat	Bench Settings		Pressure	
in	(DN)	Description	inch	(mm)	psid	(Bard)		psig	(Barg)	psig	(Barg)
3/4"	(20)	Full	0.500	(12.7)							
4"	(05)	Full	0.688	(17.5)	150	(10.3)	(10.3) Comp/Metal				
<u> </u>	(25)	1-Step Reduced	0.500	(12.7)				5-15	(.34-1.0)	20	(1.4)
					46	(3.2)	Metal				
1-1/2"	(40)	Full	1.000	(25.4)	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	
1"	(OE)	Full	0.2	1.0	1.6	2.1	2.8	3.4	3.7	4.3	5.1	5.7	6.0	
'	(25)	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 1/0"	(40)	Full	0.4	2.0	3.1	4.3	5.3	6.7	8.2	9.0	10.3	11.1	11.8	
1-1/2" (40)	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	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	0.4	0.8	1.1	1.5	1.9	2.3	2.7	3.1	3.4	3.8	
4"	(25)	Full	0.2	0.8	1.6	2.3	2.9	3.8	4.4	5.3	6.1	6.8	7.5	
'	(25)	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 1/0"	(40)	Full	0.4	1.4	2.6	4.1	5.5	6.8	8.0	9.5	10.7	12.2	13.5	
1-1/2" (40)	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		

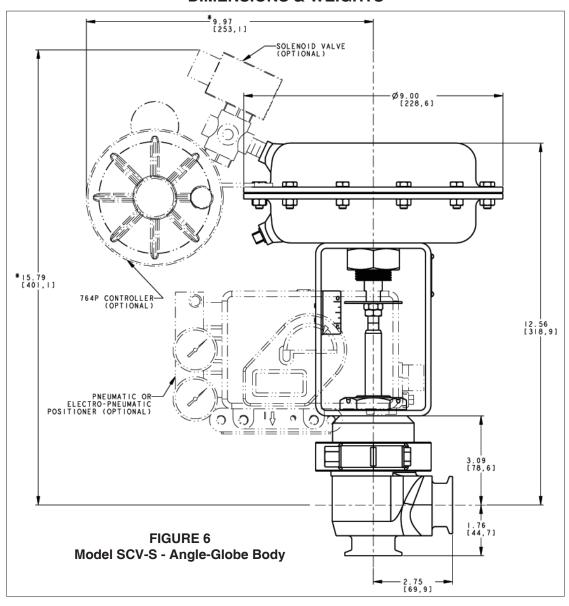
TABLE 5 TRIM MATERIALS vs. DESIGNATION NUMBERS

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	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



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

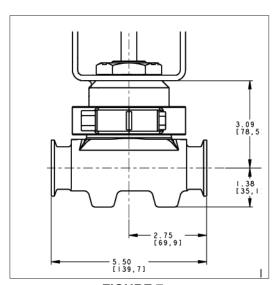


FIGURE 7
Model SCV-S - Straight-Globe Body

NOTES

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MODEL SCV-S PRODUCT CODER









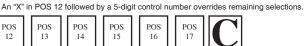
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POSITION 3 - BODY / PORT SIZE						
		Port	Size			
Body	Body Size		OPT-12			
			Reduced			
in	(DN)	CODE	CODE			
3/4"	(20)	5				
1"	(25)	6	С			
1-1/2"	(40)	8	D			

POSITION 5 - END CONNECTION & PAT- TERN					
END CONNECTION	Straight Globe	Angle Globe			
CONNECTION	CODE	CODE			
Tri-Clamp	Α	G			
Opt-24 Butt Weld	Н				

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

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 97/23/EC.

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

POSITION 12 - 764P * (Bracket Mtd)						
-Airset (Bracket Mtd) - SOLENOID VALVE						
	_	olenoid Valv	-			
764P / Action	Exhau	st on Deene	rgization			
764F / ACTION	None	120VAC 60 Hz	24 VDC			
None	CODE					
None	0	6	С			
None W/ Airset	1	7	D			
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	х					
* Refer to 764-TB for Product Code of Controller.						

***Solenoid rated as 4/4X only.

POSITION 14 - GAUGE BLOCK				
Option for Positioner	Code			
None *	0			
Gauge Block **	1			
* E DE				

^{*} For P5 gauge ports built in. No gauges.
* For D20 E, D3 E & PS2-3 gauge block is standard. No

POSITION 11 - ACTUATOR ACTION/MODEL NO.							
Body Size	Bench Set Stem		Stem Connector	REVE ATO		DIRE ATC	
in	psig	(Barg)	Connector	MODEL	CODE	MODEL	CODE
ALL	5-15	(.34-1.0)	Standard Opt-68: Q.D.	007	A T	007	B V
1-1/2"	15-60	(1-4.1)	Standard Opt-68: Q.D.	C27	C W	C27	D Y
NOTE: See Table 2 in Tech Bulletin to confirm pressure dron limits							

Q.D. = Quick 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. Split Range Not Available for Model P5 P/P

Positioner		Analog/Digital	Hart	Fieldbus	Profibus	
Model	Ratings		CODE	E		
P5 P/P *	Gen. Purpose	1				
D20 D I/P	Gen. Purpose	С	D			
D20 I I/P *	Intrinsically Safe	2	5			
D20 E I/P	Explosion Proof	E	F			
D3 X I/P	Gen. Purpose	L	M	N	Р	
D3 I I/P	Intrinsically Safe	3	6	8	Α	
D3 E I/P	Explosion Proof	G	Н	J	K	
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	٧	W	
None **	0					
* Stock Item ** Actuator A	Assembly includes dir	mensions for (Namur) Mounting pe	er IEC 60534	1-6-1.	

POSITION 15 - POSITIONER OPTIONS							
	POSITIONERS			I/P TRANSDUCERS *			
Options	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	C F R S						
None	0						
* For 0-60 Psig Transducer please contact the factory.							

POSITION 16 - OPTIONS				
Accessories CODE				
No Handwheel	0			
Handwheel	9			

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POSITION 17 - PAINTING & CLEANING					
Painting	Option Standar				
		CODE			
Standard	_	0			
Epoxy Painted Per Cashco Spec #S-1547	-95	1			

gauges
** For D20 D & D20 I and PS2-1 & PS2-2 - gauge block

with gauges.

** For D3 X & D3 I gauge block only - no gauges.