

Angle Seat Control Valve

with integrated positioner

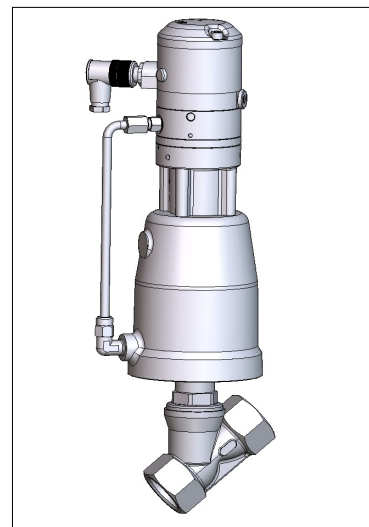
7020

1/4" up to 2"

SCHUBERT & SALZER
INC.

Pneumatically operated control valves for neutral through highly aggressive media. Ideal for steam, gas and liquids.

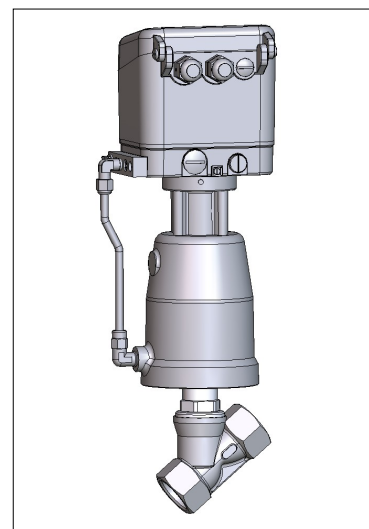
- Integrated positioner
- Compact design
- All wetted parts made from stainless steel
- Temperatures up to 392°F
- Wide range of Cv's



**Type 7020
with i/p-positioner
Type 8047**

Control valve with integrated digital positioner for the control of neutral through to aggressive media in process engineering, chemical industry and for plant equipment.

- Space saving design and low weight
- No steady- state air consumption
- Operation independent of mounting position and supply pressure variations
- Not sensitive to vibration
- Instrument grade air not essential
- Software configurable flow characteristics
- Protection Class IP65



**Type 7020
with digital positoner
Type 8049**

Technical Information

Body material	Stainless steel 316 L
Nominal sizes	1/4" up to 2"
Connections	
NPT thread	1/4" up to 2"
Tri Clamp	1/2" up to 2"
Tube ends	1/2" up to 2"
Socket weld	1/2" up to 2"
Nominal pressure	580 psi
Fluid temperature	-22°F up to + 392°F

Options:

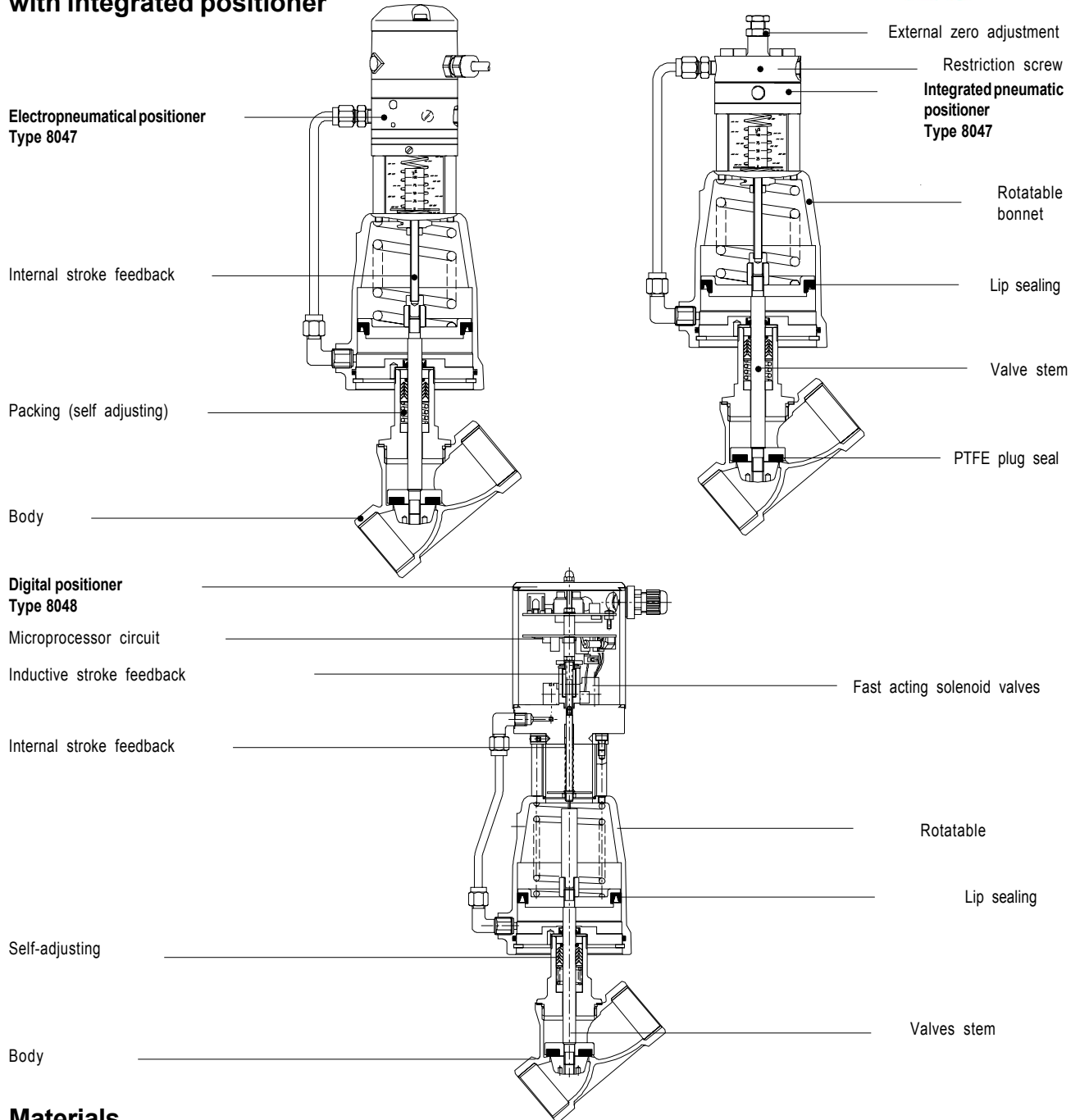
- Optical position indicator
- External I/P-converter
Type 8045
- Ex -i/p- positioner
(Ex II 2 G EEx ib IIC T6)

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

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Angle Seat Control Valve 7020

with integrated positioner



Materials

Body	Stainless steel 316 L
Seating seal	PTFE
Bonnet	Brass chrome plated (actuator Ø 2", 3") Aluminium (actuator Ø 5")
Actuator springs	Stainless steel 301 (actuator Ø 2", 3") Spring steel wire C, zinc coated (actuator Ø 5")
Packing	PTFE (carbon filled), spring SST 301
Valve stem	Stainless steel 316 Ti, roller burnished
Positioner body	Brass, chrome plated (p/p-version) Brass/aluminium (i/p-version) aluminium anodized (digital-version)
Position indicator	PA Trogamid (clear)

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Positioner

	Digital positioner Type 8048	i/p-positioner Type 8047	p/p-positioner Type 8047
Input signal range	0/4 - 20 mA, 0/2 - 10 V	0/4 - 20 mA, 0/2 - 10 V	0,2 - 1 bar
Supply voltage, electrical	24 V DC, maximum 10 W	none	none
Supply air pressure	max. 87 psi	max. 87 psi	max. 87 psi
Hysteresis	< 0,5 %	< 1 %	< 1 %
Rangeability	30 : 1	25 : 1	25 : 1
Characteristics	linear, equal percentage, user-defined, process optimized*	Characteristics of function unit	Characteristics of function unit
Adjustment (Stroke, zero point)	self-adapting	mechanical	mechanical
Ambient temperature	-4°F up to +167°F	-4°F up to +140°F	-4°F up to +176°F
Protection class acc. DIN 40050	IP65	IP 54	IP 54
Ex-proof (Optional)	-	Ex II 2 G EEx ib IIC T6 up to 113°F Ex II 2 G EEx ib IIC T5 up to 140°F	-

*Produces a linear process flow characteristic for optimal control. After entering a few process data points (e.g. upstream and downstream pressures) the optimised flow characteristic is calculated by the positioner configuration software and stored in the positioner memory.

Digital Positioner Type 8049

Version	4-wire	2-wire	AS-I
Set point signal	0/4 - 20 mA	4 - 20 mA	Single Slave, Slave Profil S - 7.3.4
Burden voltage	1,2 V	14 V	-
Supply energy, electrical	24 VDC	none	supply with AS-I
Adaption to range and zero	self-calibrating		
Configuration	with PC-Software		
Air capacity* to actuator	1.75 SCFM	varies with design	1.75 SCFM
System air consumption	none		
Ambient temperature limits	-4 to +167°F	-14 to +167°F	-4 to +167°F
Supply connection	NPT 1/8"		
Class of protection	IP 65		
Accessories	Analogue feedback module RM-1 2 wire design, feedback signal 4 - 20 mA		

**90 psi supply air

Cv- Values

	Linear							Equal percentage						
DN	1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/4"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
100%	0.7	4.4	10.2	16.2	23.2	31.3	47.6	0.7	3.5	7	11.6	18.6	29	-
40%	0.28	1.7	4.1	6.7	9.3	12.8	-	-	1.4	2.8	4.6	7	11.6	-
25%	0.17	1.1	2.6	4.2	-	-	-	-	0.93	1.7	3	-	-	-
15%	-	-	-	-	-	-	-	-	0.53	-	-	-	-	-
10%	-	0.46	-	-	-	-	-	-	-	-	-	-	-	-
7,5%	-	-	-	-	-	-	-	-	0.27	-	-	-	-	-

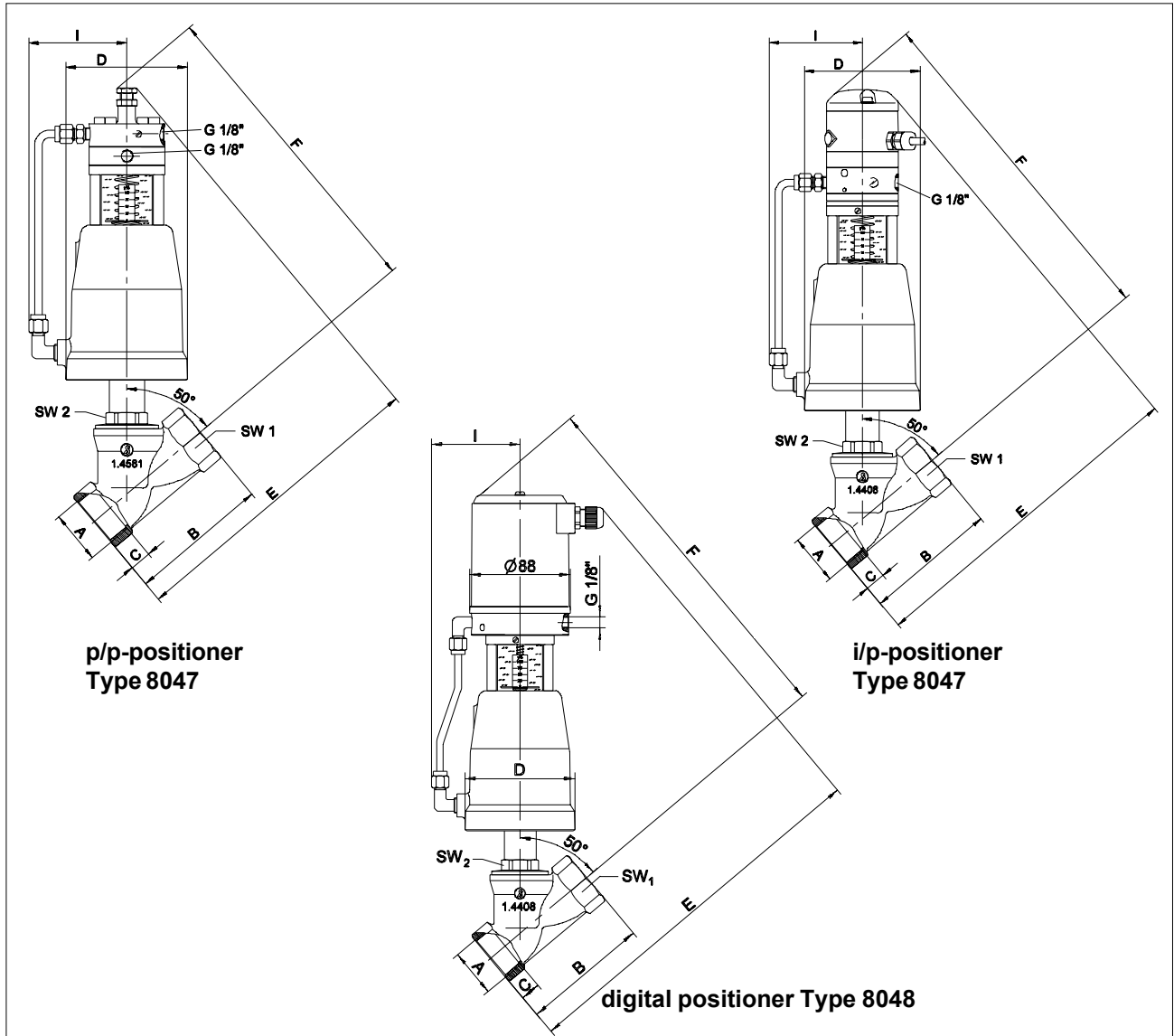
SCHUBERT SALZER
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Angle Seat Control Valve, nominal size 3/4", NPT-thread, stainless steel, PTFE seat material, N.C., with pneumatic positioner, piston Ø 2" with NPT connection, equal percentage characteristic 100 %, with position indicator

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Dimensions and Weights



DN	Actuator	A Rp/NPT	B	C	D	E Positioner			F Positioner			I	SW1	SW2	Weight (lbs)		
						p/p	i/p	digital	p/p	i/p	digital				p/p	i/p	digital
1/4"	2"	1/4"	2.36	0.47	2.44	-	-	11.02	-	-	10.83	2.44	0.79	1.18	-	-	5
1/4"	3"	1/4"	2.36	0.47	3.78	8.66	9.84	11.81	9.06	10.24	11.61	3.15	0.79	1.18	8	9	9
1/2"	3"	1/2"	2.56	0.59	3.78	8.66	9.84	11.81	9.06	10.24	11.61	3.15	0.98	1.18	8	9	9
3/4"	3"	3/4"	2.95	0.64	3.78	8.86	10.04	12.01	9.25	10.43	11.61	3.15	1.22	1.18	8.5	9	9
1"	3"	1"	3.54	0.75	3.78	9.25	10.43	12.4	9.45	10.63	11.81	3.15	1.54	1.18	9	9.5	9.5
1 1/4"	3"	1 1/4"	4.33	0.84	3.78	9.84	11.02	12.99	10.04	11.22	12.4	3.15	1.89	1.18	9.5	10	10.5
1 1/4"	5"	1 1/4"	4.33	0.84	5.75	10.43	11.61	14.17	10.83	12.01	13.58	4.13	1.89	1.18	15	16	16
1 1/2"	3"	1 1/2"	4.72	0.84	3.78	10.04	11.22	13.19	10.24	11.42	12.6	3.15	2.17	1.18	10	11	11
1 1/2"	5"	1 1/2"	4.72	0.84	5.75	10.63	11.81	14.37	11.02	12.2	13.78	4.13	2.17	1.18	16	16.5	16.5
2"	3"	2"	5.91	0.83	3.78	10.83	12.01	13.78	10.63	11.81	12.99	3.15	2.68	1.26	11.5	12	12.5
2"	5"	2"	5.91	1.01	5.75	11.22	12.4	14.96	11.22	12.4	14.17	4.13	2.68	1.26	17	18	18

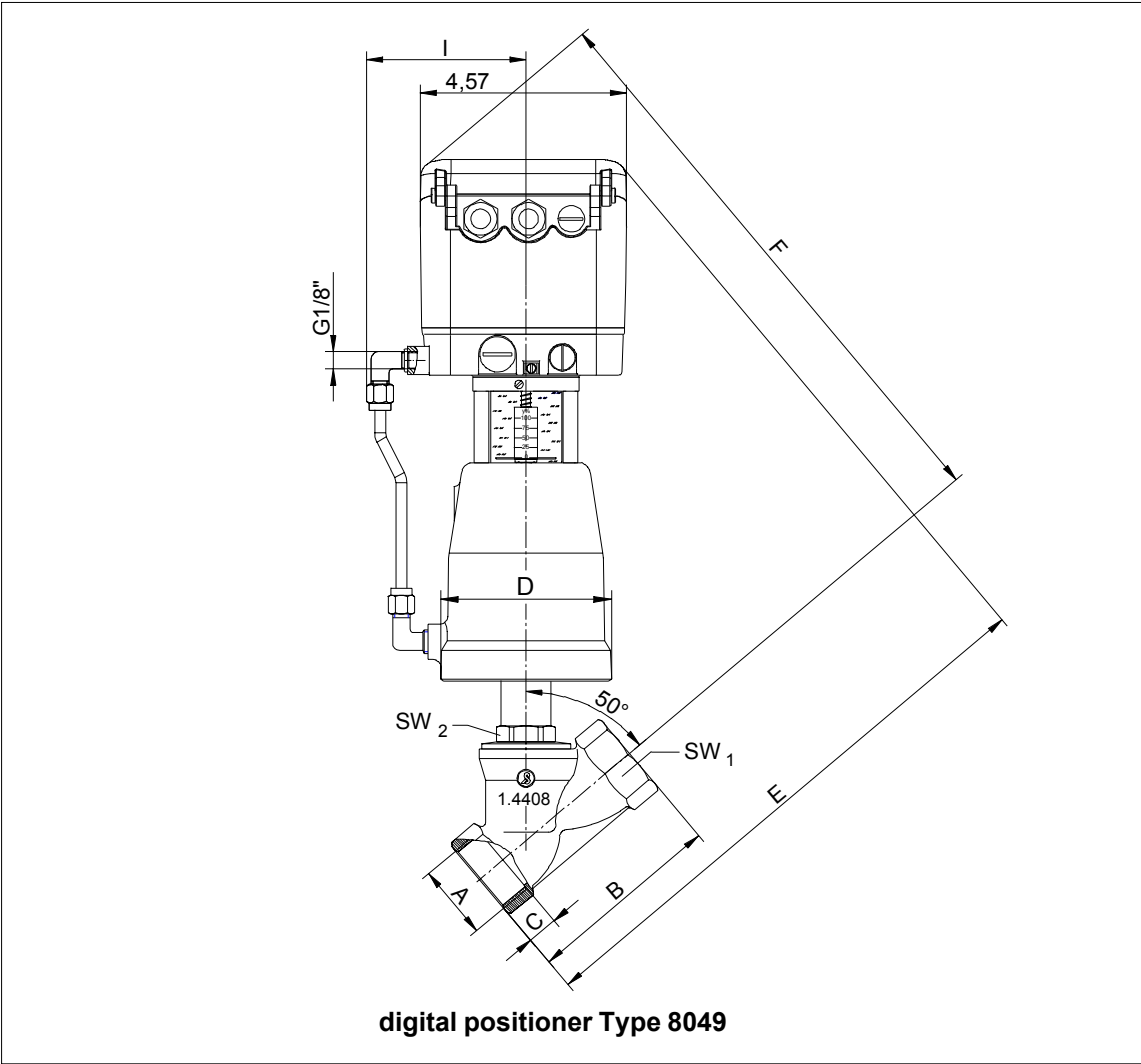
Dimensions in inch

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with integrated positioner



Dimensions and Weights



DN	Actuator	A Rp/NPT	B	C	D	E	F	Hub	I	SW1	SW2	Kvs- value	Weight
1/2"	3"	1/2"	2.56	0.47	3.78	12.17	11.85	0.28	3.15	0.98	1.18	4	9.7
3/4"	3"	3/4"	2.95	0.51	3.78	12.36	12.05	0.47	3.15	1.22	1.18	9.5	9.9
1"	3"	1"	3.54	0.59	3.78	12.76	12.24	0.63	3.15	1.54	1.18	18.5	10.3
1 1/4"	3"	1 1/4"	4.33	0.67	3.78	13.35	12.83	0.79	3.15	1.89	1.18	28	11
1 1/4"	5"	1 1/4"	4.33	0.67	5.75	14.53	14.02	0.79	4.13	1.89	1.18	28	16.7
1 1/2"	3"	1 1/2"	4.72	0.75	3.78	13.54	13.03	0.91	3.15	2.17	1.18	40.5	11.7
1 1/2"	5"	1 1/2"	4.72	0.75	5.75	14.72	14.21	0.91	4.13	2.17	1.18	40.5	17.4
2"	3"	2"	5.91	0.83	3.78	14.13	13.43	1.14	3.15	2.68	1.26	64	13
2"	5"	2"	5.91	0.83	5.75	15.31	14.61	1.14	4.13	2.68	1.26	64	18.7

Dimensions in inch

Text and pictures are not binding. We reserve the right, to alter the equipment.