

Aseptic Right Angle Control Valve

6021

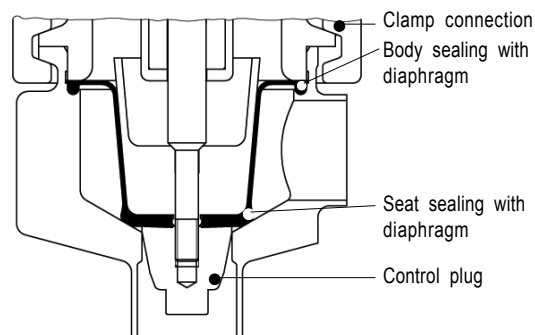
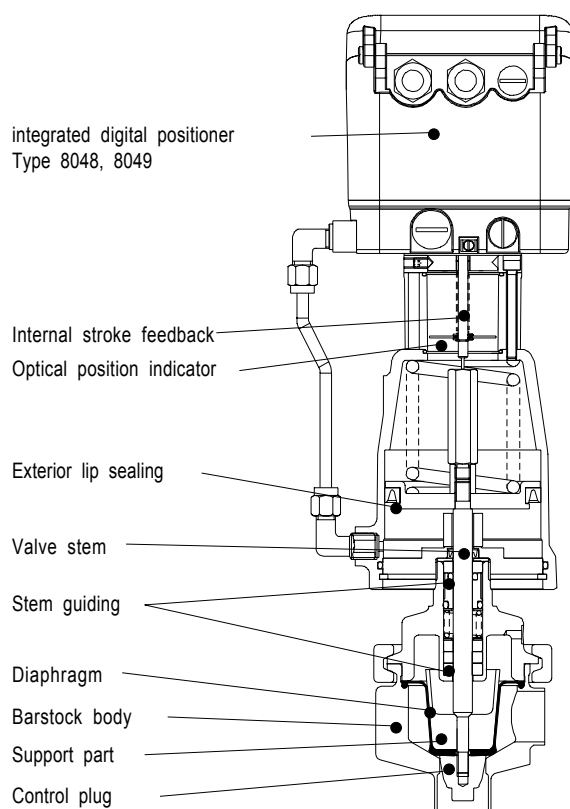
DN 15 up to DN 40

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

with integrated digital positioner for applications in pharmaceutical and food industry (Type 8048 or Type 8049)

Pneumatic control valve in right angle design with integrated microprocessor positioner for applications in pharmaceutical and food industry.

- EHEDG-approval
- Compact design
- Body made from non-porous barstock material
- Actuator and positioner casing made from stainless steel (option)
- Trim with diaphragm
- No permanent air consumption
- No moving parts are accessible from the outside
- Function independent from valve mounting position and supply pressure
- Not sensitive to vibrations
- Flexible selection of flow characteristics via software



**Soft sealing with
EPDM diaphragm or
silicon diaphragm**

По вопросам продаж и поддержки обращайтесь:
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Aseptic Right Angle Control Valve 6021

with integrated digital positioner

Technical Information

Valve

Body material	Stainless steel 1.4435
Nominal sizes	DN 15, DN 25, DN 40 (DN20 in inch)
Connections	Welding ends DIN 11850 series 2 Welding ends ISO Welding ends inch Tri-clamp acc. inch
Nominal pressure	PN 16
Body sealing	EPDM diaphragm/ Silicon diaphragm
Seating seal	EPDM diaphragm/ Silicon diaphragm
Fluid temperature	-20°C bis +135°C
Sterilisation temperature	max. 150°C up to 30 min.
Rangeability	50 : 1
Hysteresis	< 0,5 %
Surface finish	inside polished, Ra < 0,6 µm

Positioner Type 8048

Input signal range	0/4 - 20 mA, 0/2 - 10 V
Supply energy, electrical	24 V DC, max. 10 W
Flow characteristics	linear, equal percentage, user specified, process optimised*
Adjustment of stroke and zero	self adapting
Ambient temperature	-20°C up to +75°C
Protection class acc. DIN 40050	IP65

* 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-learning		
Configuration	with PC-Software		
Air delivery*	50 NI/min.	according the version	50 NI/min.
System air consumption	none		
Ambient temperature limits	-20 up to +75°C	-10 up to +75°C	-20 up to +75°C
Supply connection	G 1/8"		
Class of protection acc. DIN 40050	IP 65		
Accessories	Analogue feedback module RM-1 2 wire design, feedback signal 4 - 20 mA		

* 6 bar supply air

K_{vs} - Values

DN	15	20	25	40	15	20	25	40
characteristic	linear				equal percentage			
full	4	4	10	25	4	4	10	20
reduced (63 %)	2,5	2,5	6,3	16	2,5	2,5	6,3	15
reduced (40 %)	1,6	1,6	4	10	1,6	1,6	4	-
reduced (25 %)	1	1	2,5	-	-	-	2,5	-
reduced (16 %)	0,63	0,63	1,6	-	-	-	1,6	-
reduced (10 %)	0,4	0,4	1	-	-	-	-	-
reduced (6,3 %)	-	-	0,63	-	-	-	-	-
reduced (4 %)	-	-	0,4	-	-	-	-	-
stroke (mm)	16							

DN20 only in inch available

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Admissible Differential Pressures

DN	Max. admissible diff. pressure in bar	Supply bar	Actuator size	Springs
15	6	5 to 6	80 mm	2
15	10	4 to 6	125 mm	3
20	6	5 to 6	80 mm	2
20	10	4 to 6	125 mm	3
25	3	5 to 6	80 mm	2
25	8,5	4 to 6	125 mm	3
40	7	4 to 6	125 mm	3

Materials

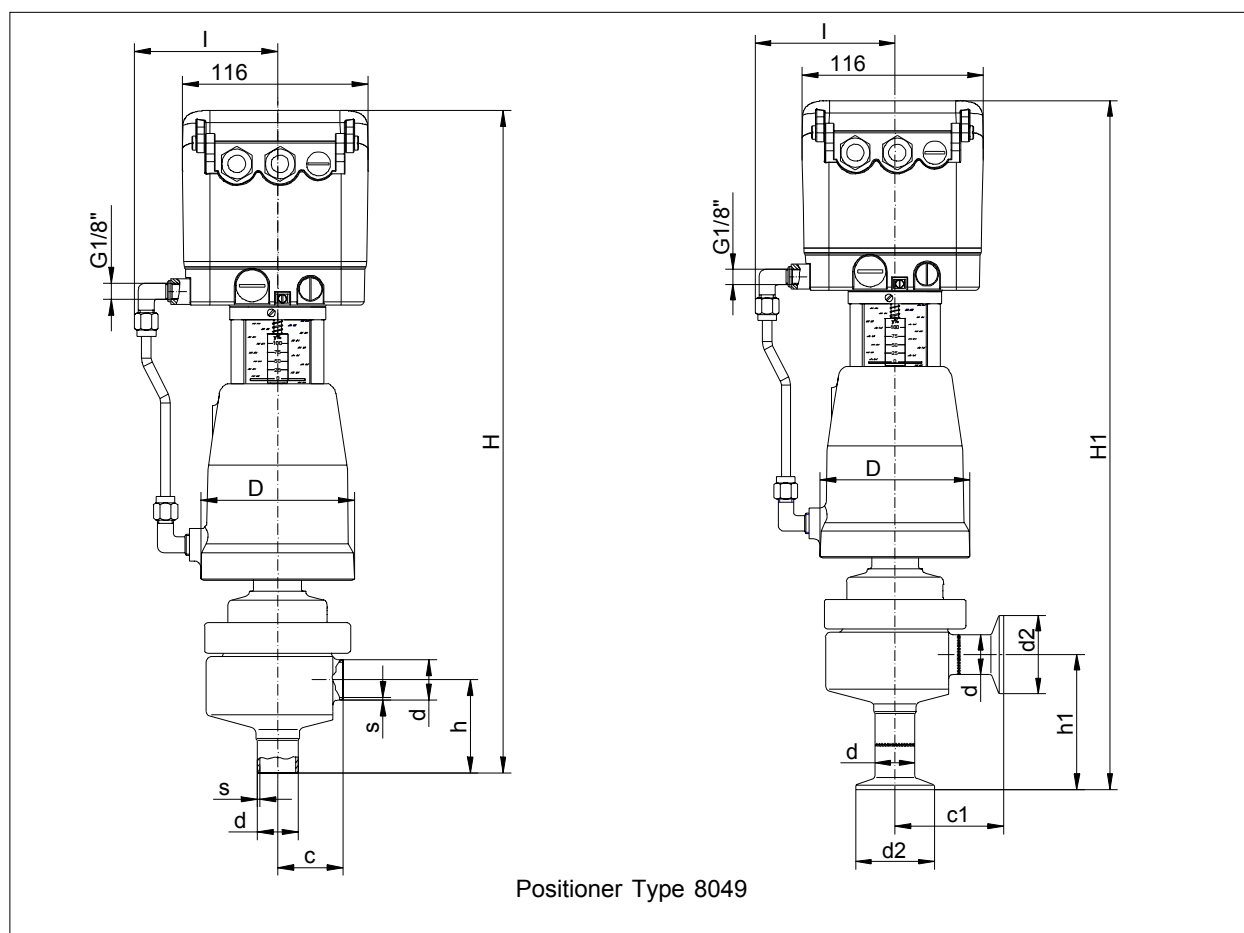
Valve Body	Stainless steel 1.4435
Actuator	Stainless steel 1.4408 (optional: plastic)
Actuator springs	Stainless steel 1.4310
Valve stem	Stainless steel 1.4404, roller burnished
Control plug	Stainless steel 1.4435
Clamp-connection	Stainless steel 1.4308
Body sealing	EPDM diaphragm , silicon diaphragm (DN15 up to DN25)
Seating seal	EPDM diaphragm , silicon diaphragm (DN15 up to DN25)
Body positioner	Aluminium, filled PA, optional: stainless steel 1.4305
Body position indicator	PA Trogamid T 5000 (clear)

Aseptic Control Valve Type 6021, DN 15, welding ends acc. DIN 11850, stainless steel body 1.4435, surface roughness $R_a < 0,6 \mu\text{m}$, EPDM-diaphragm with FDA conformity, digital positioner Type 8049, 4 wire, actuator 80 mm, equal percentage characteristic, Kvs-value reduced to 63% (Kvs 2,5).

Aseptic Right Angle Control Valve 6021

with integrated digital positioner Dimensions and Weights

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**CONTROL
SYSTEMS**



DN	Actuator Ø	D	DIN DIN 11850 Series 2				ISO				Inch				I	H	Weight (~kg)
			d	s	c	h	d	s	c	h	d	s	c	h			
15	80	96	19	1,5	43	54,5	21,3	1,6	43	53,5	12,7	1,65	43	57	80	408	4,8
15	125	146	19	1,5	43	54,5	21,3	1,6	43	53,5	12,7	1,65	43	57	105	428	7,5
20	80	96	-	-	-	-	-	-	-	-	19,05	1,65	43	54,5	80	408	4,8
20	125	146	-	-	-	-	-	-	-	-	19,05	1,65	43	54,5	105	428	7,5
25	80	96	29	1,5	41	49,5	33,7	2	41	47	25,4	1,65	41	51	80	408	5,3
25	125	146	29	1,5	41	49,5	33,7	2	41	47	25,4	1,65	41	51	105	428	8,0
40	125	146	41	1,5	48	59	48,3	2	48	55	38,1	1,65	48	60	105	444	9,3

DN	Actuator Ø	D	Tri-clamp acc. inch				I	H1	Weight (~kg)
			d	d2	c1	h1			
15	80	96	12,7	25	71,5	85,5	80	437	4,8
15	125	146	12,7	25	71,5	85,5	105	457	7,5
20	80	96	19,05	25	71,5	83	80	437	4,8
20	125	146	19,05	25	71,5	83	105	457	7,5
25	80	96	25,4	50,5	69,5	79,5	80	437	5,3
25	125	146	25,4	50,5	69,5	79,5	105	457	8,0
40	125	146	38,1	50,5	87	99	105	483	9,3

Dimensions in mm

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