

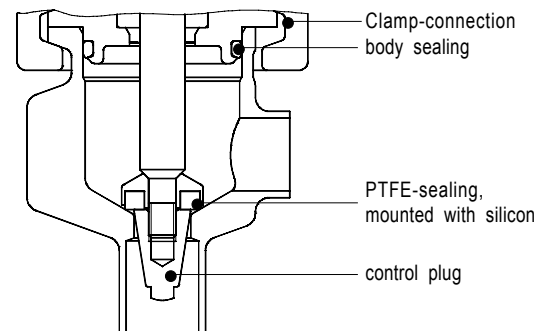
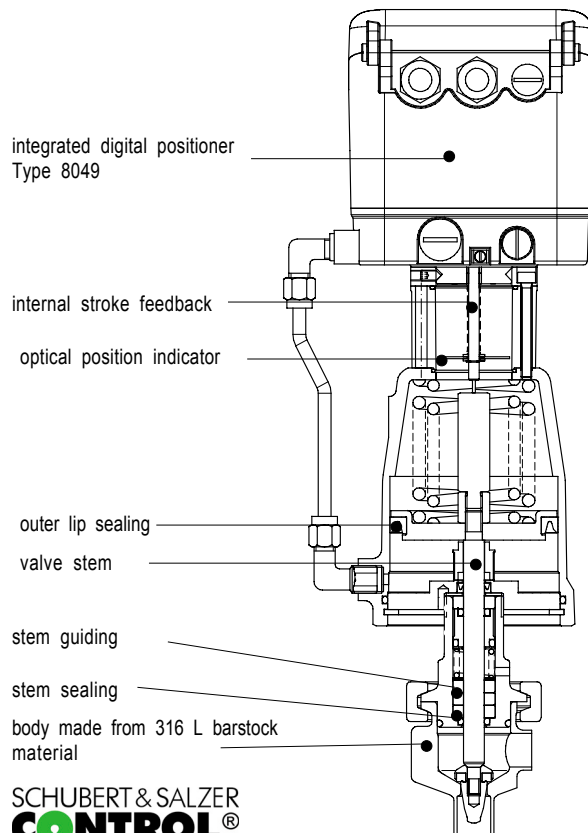
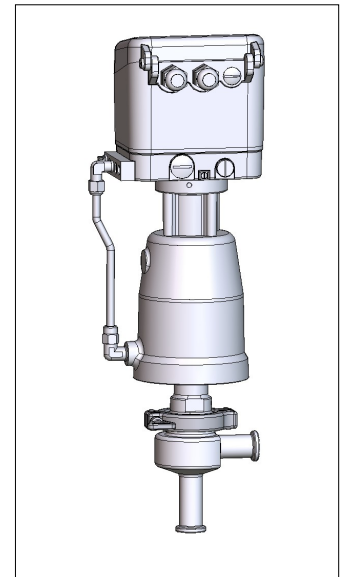
Sanitary Control Valve 6020

with integrated positioner 1/2" up to 1 1/2"



Pneumatic control valve with right angle body design and integrated positioner for sanitary applications in pharmaceutical, food processing and chemical.

- Space saving, low weight design
- Body made from 316L stainless steel barstock
- Stainless steel positioner housing options
- Soft seat options, conforming to FDA requirements and ANSI Class VI shutoff
- Zero steady-state air consumption
- Operation independent of mounting position and supply pressure variations
- Not sensitive to vibration
- Software configurable flow characteristics
- Tri clamp end connections
- Enclosed packing chamber



soft seating

Sanitary Control Valve 6020

with integrated positioner



Technical Information Valve

Body material	Stainless steel 316 L
Nominal sizes	1/2" (DN 15), 1" (DN 25), 1 1/2" (DN 40) 3/4" (DN20) in inch
Connections	Welding ends acc. inch Tri-Clamp acc. inch
Nominal pressure	235 psi
Seating seal	soft seat
Fluid temperature	-4°F up to +284°F (optional +392°F)
Surface finish	inside precision turned Ra < 31,5 µin polished, Ra < 23,6 µin machined or electro polished Ra < 15,7µin electro polished, Ra < 9,8 µin

Positioner

For technical information of our positioners please refer to the corresponding data sheets.

Materials

Valve Body	Stainless steel 316 L
Actuator	Stainless steel 316 L
Diaphragm actuator	Stainless steel ASTM A313 304
Actuator springs	Stainless steel ASTM A313 302
Valve stem	Stainless steel 316 L, roller burnished
Disc	Stainless steel 316 L
Control plug	Stainless steel 316 L
Clamp-connection	Stainless steel 304
Body sealing	EPDM (O-ring) (optional: silicon, fluoraz)
Seating seal	soft seat: PTFE flat sealing
Stem sealing	EPDM (O-ring) (optional: silicon, fluoraz)
Body positioner	Type 8047: p/p-positioner = chrome plated brass i/p-positioner = chrome plated brass, plastic Type 8049: Aluminium-pressure casting KTL-coated, plastic (optional: stainless steel 1.4305)
Body position indicator	Poly Amid Trogamid T 5000 (clear)

Sanitary Control Valve 6020

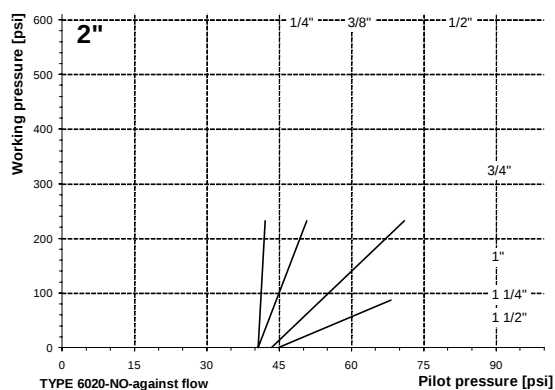
with integrated positioner



Admissible Pressures (spring to close)

DN	Cv - values	max. admissible differential pressure				Supply air	Actuator size
		digital positioner Type 8048 and 8049		pneumatic positoner Type 8047 p/p and i/p			
		control psi	on/off psi	control psi	on/off psi		
1/2"	0,12 up to 1,16	230	230	-	-	45 up to 85	3"
1/2"	1,86 up to 4,64	230	230	205	230	60 up to 85	3"
3/4"	0,12 up to 1,16	230	230	-	-	45 up to 85	3"
3/4"	1,86 up to 4,64	230	230	205	230	60 up to 85	3"
1"	0,46 up to 1,16	230	230	-	-	45 up to 85	3"
1"	1,86 up to 4,64	230	230	205	230	60 up to 85	3"
1"	7,31 up to 11,6	175	230	115	175	60 up to 85	3"
1"	7,31 up to 11,6	230	230	230	230	45 up to 85	5"
1"	7,31 up to 11,6	230	230	-	-	30 up to 85	10"
1 1/2"	17,4 up to 29	75	85	45	60	60 up to 85	3"
1 1/2"	17,4 up to 29	85	230	85	205	60 up to 85	5"
1 1/2"	17,4 up to 29	85	230	-	-	45 up to 85	10"

Admissible Pressures (spring to open, actuator 3")



max. air supply:

cv 0,12 - 1,16 = 50 psi

cv 1,86 - 4,64 = 60 psi

cv 7,31 - 11,6 = 90 psi

cv 17,4 - 29 = 85 psi

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with integrated positioner



Cv- Values

characteristic	linear				equal percentage			
DN	1/2"	3/4"	1"	1 1/2"	1/2"	3/4"	1"	1 1/2"
full	4.6	4.6	11.6	29	4.6	4.6	11.6	23.2
reduced (63 %)	2.9	2.9	7.3	18.6	2.9	2.9	7.3	17.4
reduced (40 %)	1.86	1.86	4.6	-	1.86	1.86	4.6	-
reduced (25 %)	1.16	1.16	2.9	-	-	-	2.9	-
reduced (16 %)	0.73	0.73	1.86	4.6	-	-	1.86	4.6
reduced (10 %)	0.5	0.5	1.16	2.9	-	-	-	2.9
reduced (6,3 %)	0.3	0.3	0.73	1.86	-	-	-	1.86
reduced (4 %)	-	-	0.5	-	-	-	-	-
reduced (2,5 %)	0.1	0.1	0.3	-	-	-	-	-
stroke (inch)	0.63							

3/4" only in inch available

Ordering Number System

1	2	3	4	5	6	7	8	9	10	11	12
6	0	2	0	/						V	S
Type		Size		Symbol: "V": Valve "R": Repair kit (sealings)							

1 - 6 : Please quote all 6 sections.
7 - 14: Quote only if required.

1. Design	2. Connections	3. Body material	4. Trim	5. Positioner	6. Actuator	7. Springs
0 right angle control valve Type 6020	E welding ends acc. inch Z Tri-Clamp acc. inch	2 Stainless steel 1.4404 (316 L) machined, inside 31.5 µin 3 Stainless steel 1.4404 (316L) electropolished, inside 23.6 µin	0 soft seat	6* p/p positioner Type 8047 7* i/p positioner Type 8047 8* i/p positioner Type 8047 with clamp adapter 9* i/p positioner Type 8047 positioner ex-proof (II 2 G EEx ib IIC T6) C digital positioner Type 8049, 4-wire R digital positioner Type 8049, 2-wire T digital positioner Type 8049, AS-i version W digital positioner Type 8049, 2-wire, ex-version	8 Piston 3" w with stainless steel bonnet (NPT) 9 Piston 5" w with stainless steel bonnet (NPT) S Piston 3" w with plastic bonnet (NPT) C diaphragm D 10"	- Standard R 4 springs (D 10") T 6 springs (D 10")
8. Flow characteristic	9. Stem sealing	10. Cv-value	11. Accessories	12. Special versions	13. Special versions	14. Bonnet
- linear 1 equal percentage	- EPDM (FDA) 1 Silicon (FDA) 2 fluoraz 392°F (FDA)	- full (100 %) A red. 63 % 1 red. 40 % 2 red. 25 % 3 red. 16 % 4 red. 10 % 5 red. 6.3 % 6 red. 4 % 7 red. 2.5 %	- without	S quote for further special versions.	1 screw fitting + trip line in plastic (PA) 3 screw fitting + trip line in stainless steel 4 right angled body valve with welded tri-clamps 1 1/2", screw fitting + trip line in stainless steel 5 right angled body valve 1/2", 1" ISO with welded NPT-thread on the side, screw fitting + trip line in stainless steel 6 right angle information right angled body 1/2" w with welded tri-clamp 3/4", screw fitting + trip line in stainless steel	1 actuator bonnet polished stainless steel

* Please contact company for flow capability and admissible pressures

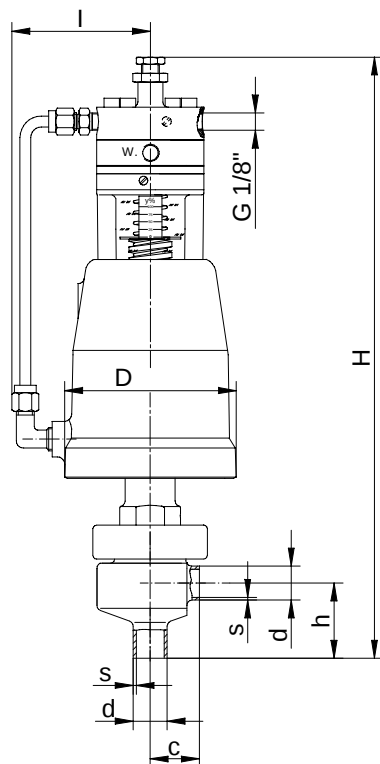
Ordering example: 6020/015V0E20C8---1

Hygienic right angle control valve type 6020, 1/2", welding ends acc. inch, stainless steel body 316 L, soft sealing, digital positioner 4 wire, actuator 3", linear flow characteristic, Cv-value red. to 40%

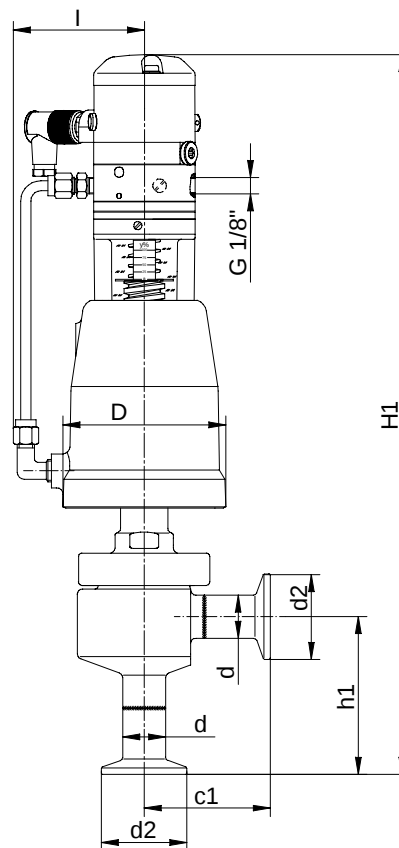
Sanitary Control Valve 6020

with integrated positioner

Dimensions and Weights



Valve with p/p-positioner type 8047



Valve with i/p-positioner type 8047

DN	Actuator	Inch				Tri-Clamp acc. inch			
		d	s	c	h	d	d2	c1	h1
1/2"	3"	0.5	0.06	1.08	1.65	0.5	0.98	2.2	2.78
3/4"	3"	0.75	0.06	1.08	1.65	0.75	0.98	2.2	2.78
1"	3"	1	0.06	1.4	2.13	1	1.99	2.93	3.66
1"	5"	1	0.06	1.4	2.13	1	1.99	2.93	3.66
1 1/2"	3"	1.5	0.06	1.89	2.46	1.5	1.99	3.43	4
1 1/2"	5"	1.5	0.06	1.89	2.46	1.5	1.99	3.43	4

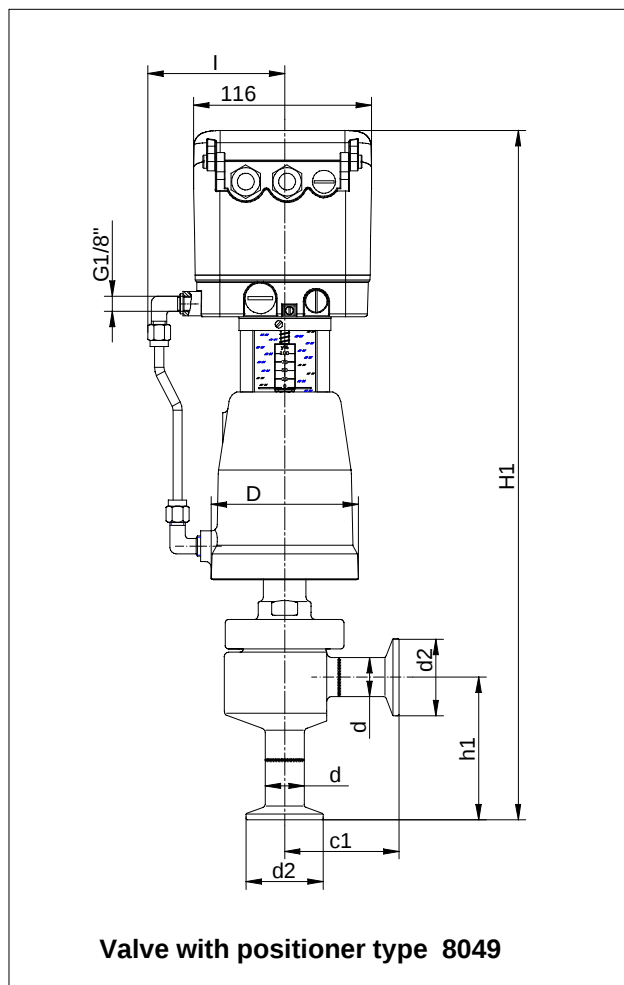
DN	Actuator	D	I		H		H1		Weight (~kg)	
			8047		8047		8047		8047	
	Ø		p/p	i/p	p/p	i/p	p/p	i/p	p/p	i/p
1/2"	3"	3.78	3.54	3.15	13.31	14.49	14.41	15.59	9	9.7
3/4"	3"	3.78	3.54	3.15	13.31	14.49	14.41	15.59	9	9.7
1"	3"	3.78	3.54	3.15	13.98	15.16	15.51	16.69	10.1	10.8
1"	4"	5.75	4.13	4.13	14.76	15.94	16.3	18.27	16.1	16.7
1 1/2"	3"	3.78	3.54	3.15	14.57	15.75	16.1	17.28	13	13.6
1 1/2"	4"	5.75	4.13	4.13	15.35	16.54	16.89	18.07	18.9	19.6

Dimensions in inch

Sanitary Control Valve 6020

with integrated positioner

Dimensions and Weights



DN	Actuator	Inch				Tri-Clamp acc. inch			
		d	s	c	h	d	d2	c1	h1
1/2"	3"	0.5	0.06	1.08	1.65	0.5	0.98	2.2	2.78
3/4"	3"	0.75	0.06	1.08	1.65	0.75	0.98	2.2	2.78
1"	3"	1	0.06	1.4	2.13	1	1.99	2.93	3.66
1"	5"	1	0.06	1.4	2.13	1	1.99	2.93	3.66
1 1/2"	3"	1.5	0.06	1.89	2.46	1.5	1.99	3.43	4
1 1/2"	5"	1.5	0.06	1.89	2.46	1.5	1.99	3.43	4

Dimensions in inch

DN	Actuator	D	I	H	H1	Weight (~lbs)
	Ø					
1/2"	3"	3.78	3.15	15.55	16.69	10,6
3/4"	3"	3.78	3.15	15.55	16.69	10,6
1"	3"	3.78	3.15	16.22	17.76	11,7
1"	5"	5.75	4.13	17.01	18.54	17,6
1 1/2"	3"	3.78	3.15	16.77	18.31	14,5
1 1/2"	5"	5.75	4.13	17.56	19.09	20,5

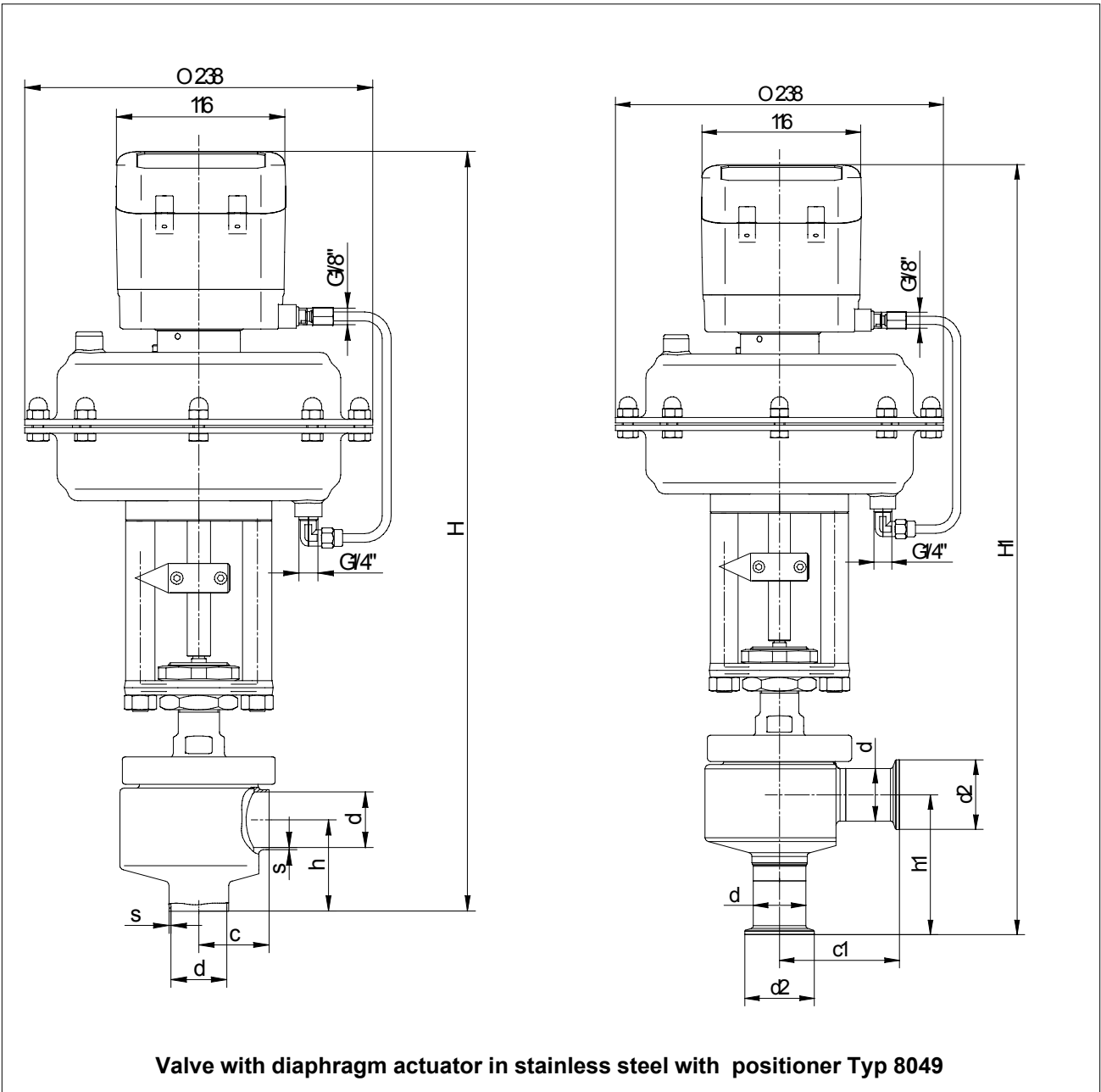
Dimensions in inch

Sanitary Control Valve 6020

with integrated positioner



Dimensions and Weights



Valve with diaphragm actuator in stainless steel with positioner Typ 8049

DN	Actuator	Inch				Tri-clamp acc. Inch				H	H1	Weight (~lbs)
		d	s	c	h	d	d2	c1	h1			
1"	10"	1	0.06	1.4	2.13	1	1.99	2.93	3.66	17.01	18.54	35
1 1/2"	10"	1.5	0.06	1.89	2.46	1.5	1.99	3.43	4	17.56	19.09	38

Dimensions in inch

Text and pictures are notbinding. We reserve the right to alter the equipment.