

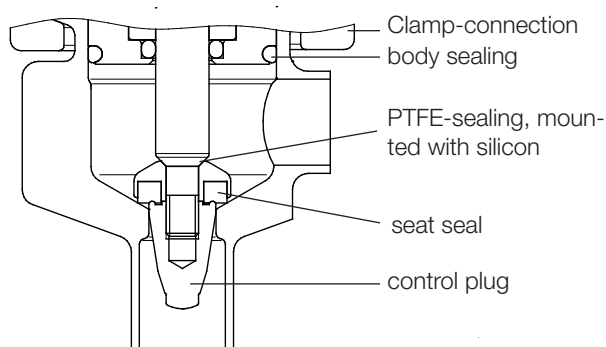
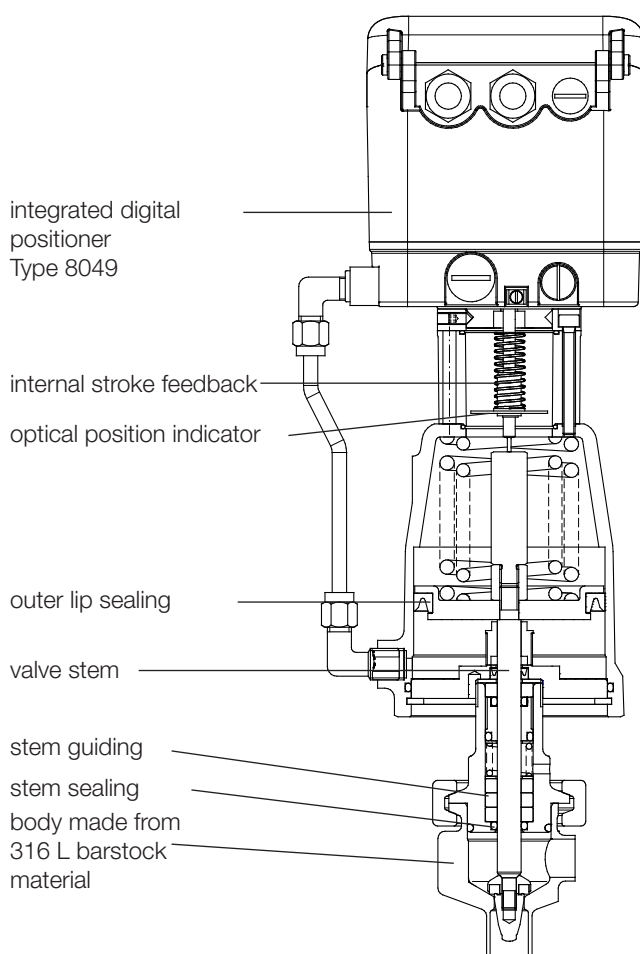
Sanitary Control Valve 6020

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 sealing

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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

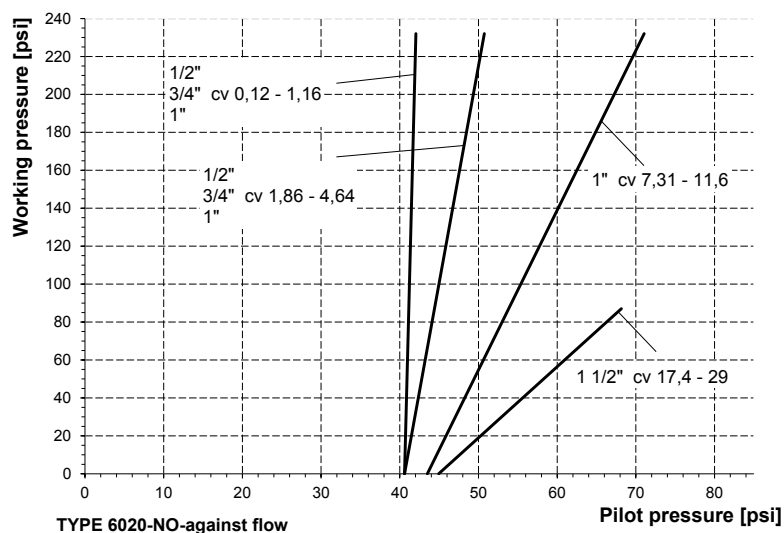
Valve Body	Stainless steel 316 L
Actuator	Stainless steel 316 L
Diaphragm actuator	Stainless steel ASTM A313 304
Actuator springs	Stainless steel ASTM A313 302
Valve stem	Stainless steel 316 L, roller burnished
Disc	Stainless steel 316 L
Control plug	Stainless steel 316 L
Clamp-connection	Stainless steel 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)

with integrated positioner

Admissible Pressures (spring to close)

Size	Cv - values	max. admissible differential pressure				Supply air psi	Actuator size inch
		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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Cv- Values

characteristic	linear				equal percentage			
Size	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" with stainless steel bonnet (NPT) 9 Piston 5" with stainless steel bonnet (NPT) S Piston 3" 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" 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

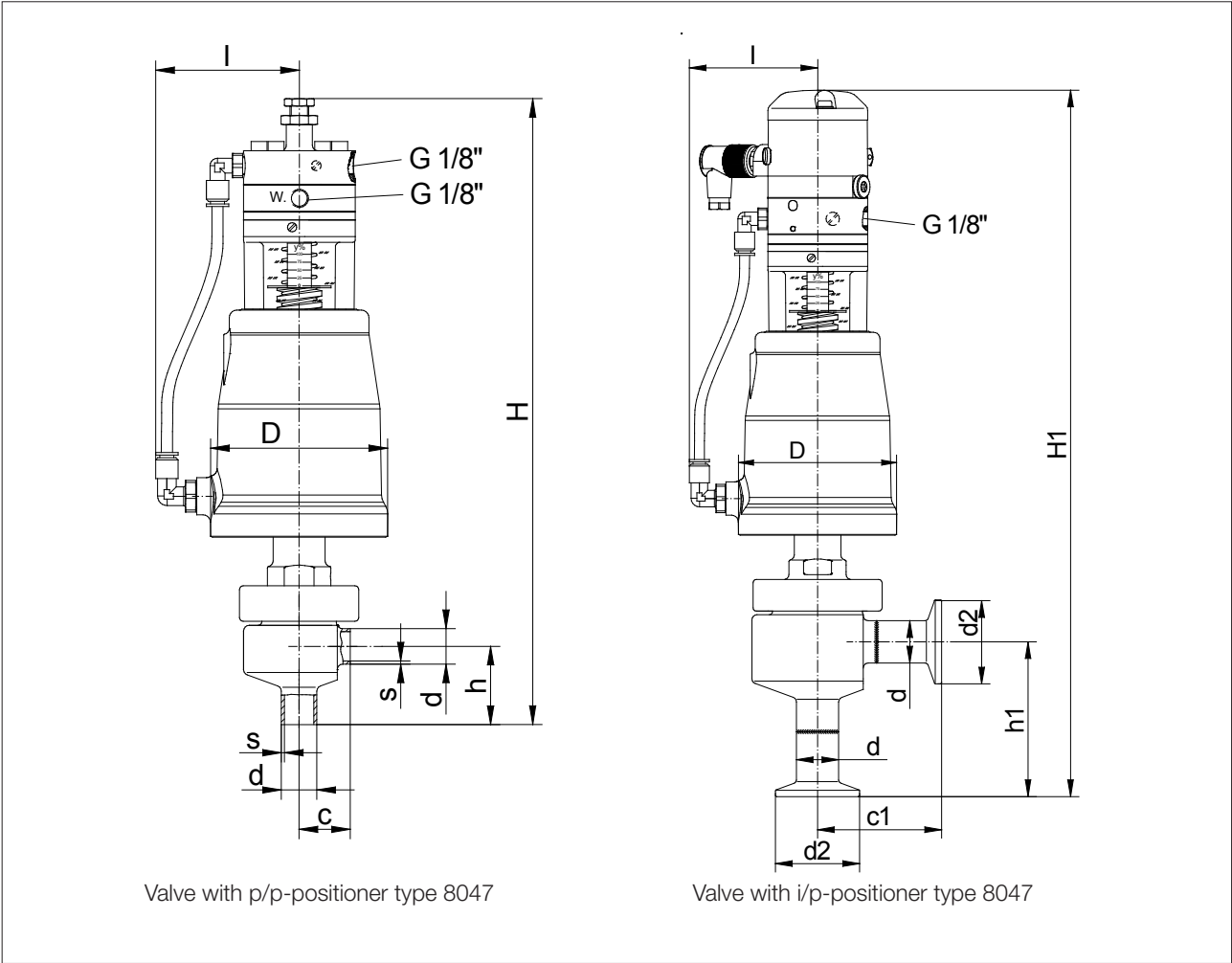
Ordering example: 6020/015V0E20C8---1
Hygienic right angle control valve type 6020, 1/2", welding ends acc. inch, stainless steel body 316 L, soft sealing, digital positioner 4 wire, actuator 3", linear flow characteristic, Cv-value red. to 40%

Sanitary Control Valve 6020



with integrated positioner

Dimensions and Weights



Size	Actuator Ø	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

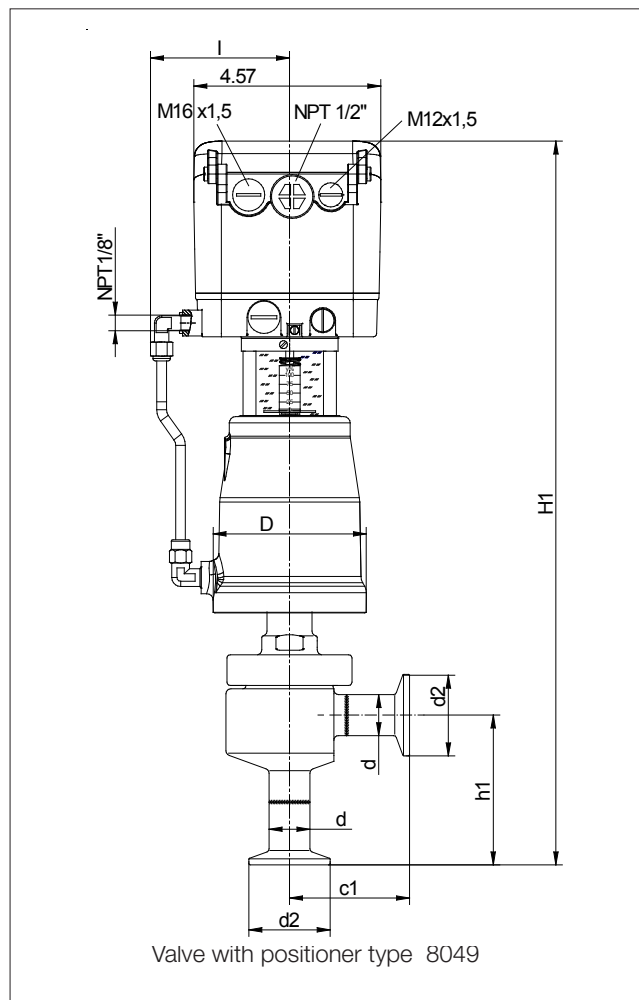
Size	Actuator Ø	D	I 8047		H 8047		H1 8047		Weight (lbs) 8047	
			p/p	i/p	p/p	i/p	p/p	i/p	p/p	i/p
1/2"	3"	3.78	3.54	3.15	13.31	14.49	14.41	15.59	9	9.7
3/4"	3"	3.78	3.54	3.15	13.31	14.49	14.41	15.59	9	9.7
1"	3"	3.78	3.54	3.15	13.98	15.16	15.51	16.69	10.1	10.8
1"	4"	5.75	4.13	4.13	14.76	15.94	16.3	18.27	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

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Dimensions and Weights



Size	Actuator Ø	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

Size	Actuator Ø	D	I	H	H1	Weight (~lbs)
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

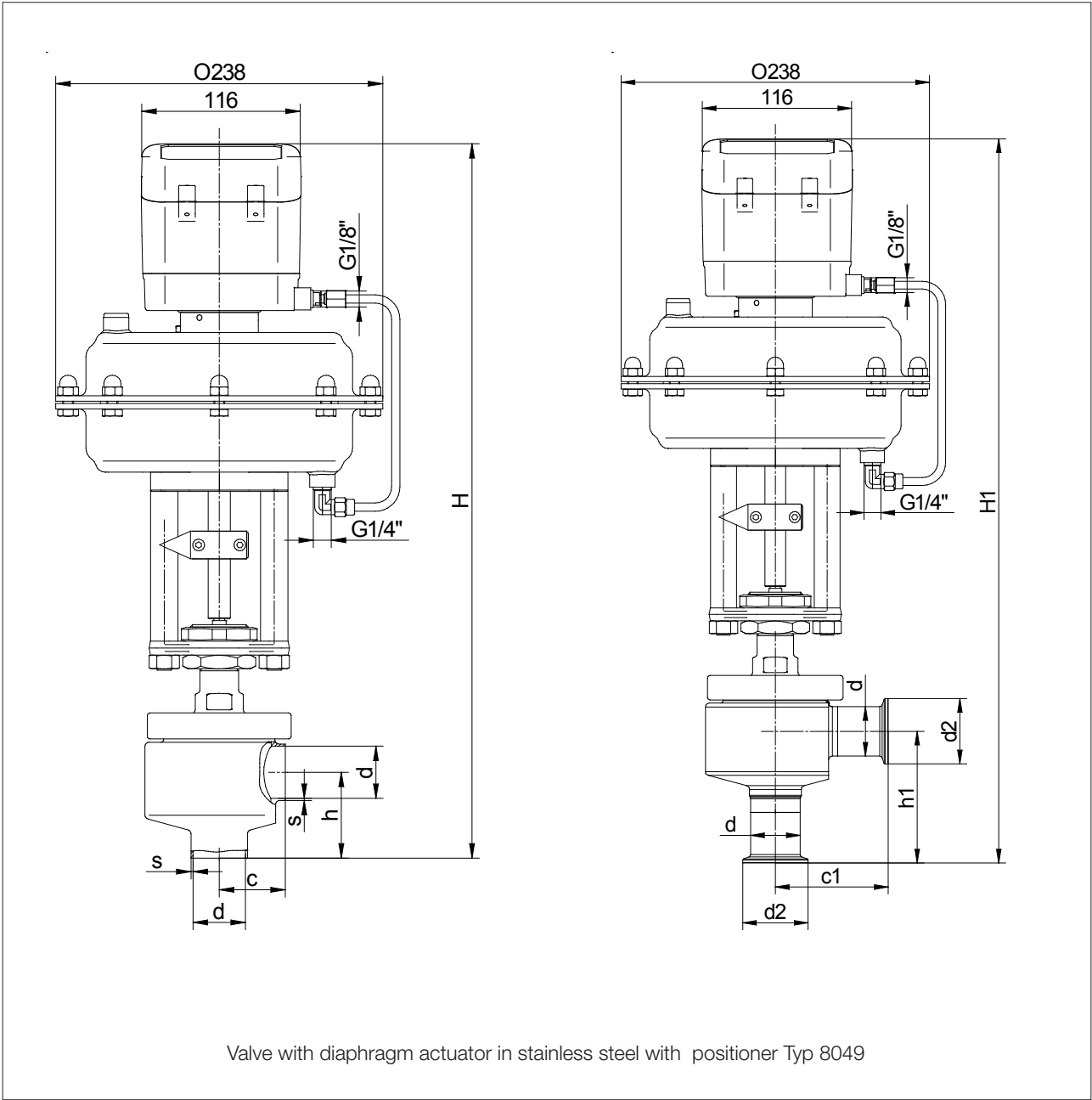
Dimensions in inch

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Dimensions and Weights



Size	Actuator Ø	Inch				Tri-clamp acc. Inch				H	H1	Weight (~lbs)
		d	s	c	h	d	d2	c1	h1	8049	8049	8049
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 not binding. We reserve the right, to alter the equipment.