

Hygiene Right Angle Control Valve 6020

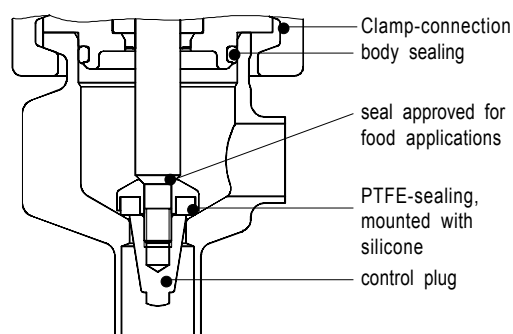
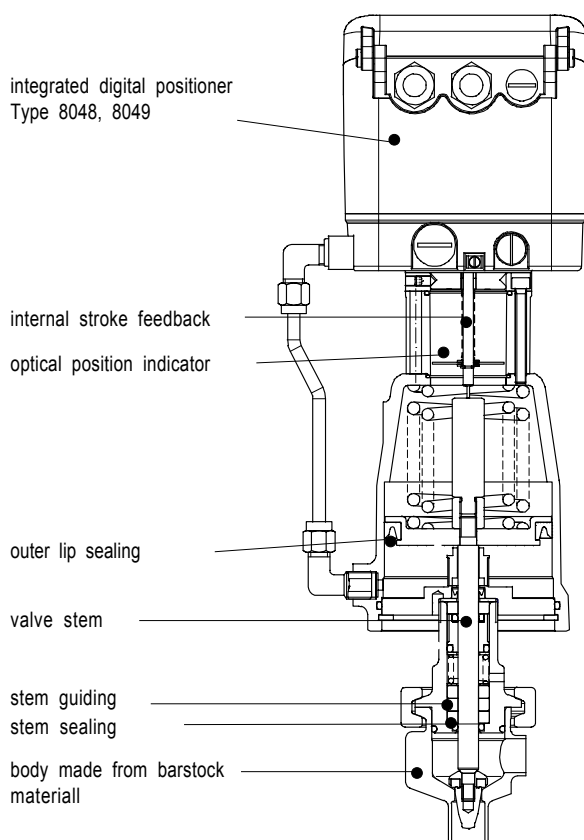
DN 15 up to DN 40

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

with integrated digital positioner for applications in food processing
(Type 8047, 8048 or Type 8049)

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

- Space saving, low weight design
- Body made from stainless steel barstock
- Positioner housing in stainless steel options
- Soft seat options
- Zero steady-state air consumption
- Not sensitive to vibration
- Software configurable flow characteristics



soft sealing

По вопросам продаж и поддержки обращайтесь:
Екатеринбург (343)384-55-89, Казань (843)206-01-48, Краснодар (861)203-40-90,
Москва (495)268-04-70, Санкт-Петербург (812)309-46-40
Единый адрес: ssr@nt-rt.ru
www.ssalzer.nt-rt.ru

Hygiene Right Angle Control Valve 6020

with integrated digital positioner

Technical Information

Valve

Body material	Stainless steel 1.4404
Nominal sizes	DN 15, DN 25, DN 40 (DN20 in inch)
Connections	Welding ends DIN 11850 series 2 Welding ends acc. ISO Welding ends acc. Inch Tri-clamp acc. Inch
Nominal pressure	PN 16
Seating seal	soft seat
Fluid temperature	-20°C bis +140°C (optional bis +200°C)
Rangeability	50:1
Surface finish	inside machined, Ra < 0,8 µm polished, Ra < 0,6 µm

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. 6 bar	max. 6 bar	max. 6 bar
Hysteresis	< 0,5 %	< 1 %	< 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	-20°C up to +75°C	-20°C up to +60°C	-20°C up to +80°C
Protection class acc. DIN 40050	IP65	IP 54	IP 54
Ex-proof (Optional)	-	 II 2 G EEx ib IIC T6 up to 45°C  II 2 G EEx ib IIC T5 up to 60°C	-

*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 Typ 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

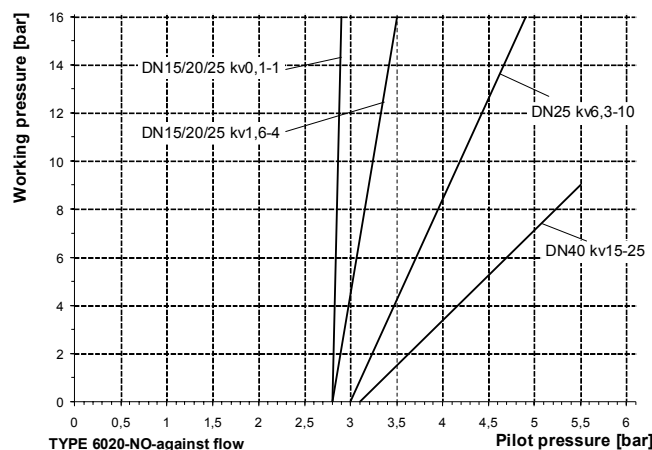
Hygiene Right Angle Control Valve 6020

with integrated digital positioner

Admissible Differential Pressures

DN	Kvs - values	max. admissible differential pressure				Supply air bar	Actuator size mm
		digital positioner		pneumatic positioner			
		Type 8048 and 8049		Type 8047 p/p and i/p			
		control bar	on/off bar	control bar	on/off bar		
15	0,1 up to 1,0	16	16	--	--	3 up to 6	80
15	1,6 up to 4,0	16	16	14	16	4 up to 6	80
20	0,1 up to 1,0	16	16	--	--	3 up to 6	80
20	1,6 up to 4,0	16	16	14	16	4 up to 6	80
25	0,4 up to 1,0	16	16	--	--	3 up to 6	80
25	1,6 up to 4,0	16	16	14	16	4 up to 6	80
25	6,3 up to 10	12	16	8	12	4 up to 6	80
25	6,3 up to 10	16	16	16	16	3 up to 6	125
40	15 up to 25	5	6	3	4	4 up to 6	80
40	15 up to 25	10	16	9	14	4 up to 6	125

Admissible Differential Pressures (spring to open acutator D80)



max. supply air
 kv 0,1-1 = 3,3bar
 kv 1,6-4 = 4,0bar
 kv 6,3-10 = 5,4bar
 kv 15-25 = 6,0bar

Materials

Valve body	Stainless steel 1.4404
Actuator	Stainless steel 1.4408
Actuator springs	Stainless steel 1.4310
Valve stem	Stainless steel 1.4404, roller burnished
Disc	Stainless steel 1.4404
Control plug	Stainless steel 1.4404
Clamp-connection	Stainless steel 1.4308
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 8048: Aluminium anodised, plastic, (optional stainless steel 1.4305) Type 8049: Aluminium-pressure casting KTL-coated, plastic
Body position indicator	PA Trogamid T 5000 (clear)

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

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

Ordering Number System

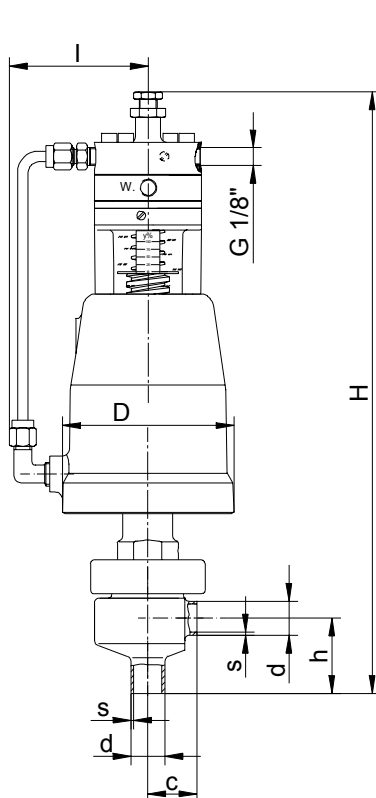
1 - 6 : Please quote all 6 sections.
7 - 12: Quote only if required.

Ordering example: 6020/015V0D20D1-1-1
Hygiene right angle control valve type 6020, DN 15, welding ends acc. DIN 11850, stainless steel body 1.4404, soft sealing, digital positioner, actuator 80 mm, linear flow characteristic, Kvs-value reduced to 40 % (Kvs 1.6).

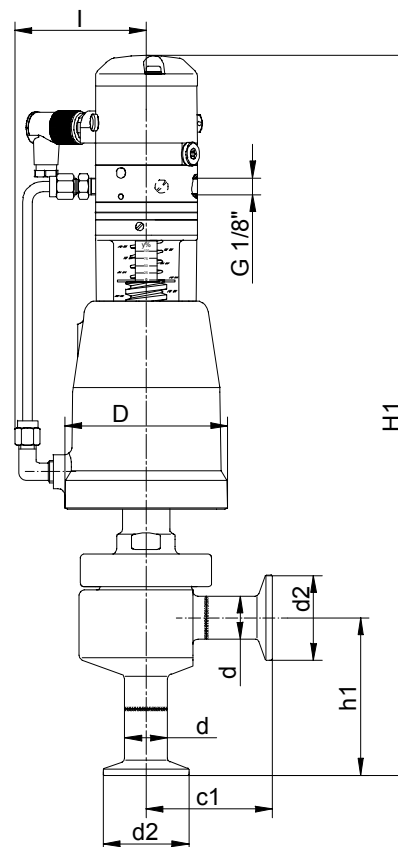
Hygiene Right Angle Control Valve 6020

with integrated digital positioner

Dimensions and Weights



Valve with p/p-positioner type 8047



Valve with i/p-positioner type 8047

DN	Actuator Ø	DIN DIN 11850 series 2				ISO				Inch				Tri-Clamp acc. Inch			
		d	s	c	h	s	c	h		d	s	c	h	d	d2	c1	h1
15	80	19	1,5	27,5	42	21,3	1,6	27,5	41	12,7	1,65	27,5	42	12,7	25	56	70,5
20	80	-	-	-	-	-	-	-	-	19,05	1,65	27,5	42	19,1	25	56	70,5
25	80	29	1,5	35,5	54,5	33,7	2	35,5	52	25,4	1,65	35,5	54	25,4	50,5	74,5	93
25	125	29	1,5	35,5	54,5	33,7	2	35,5	52	25,4	1,65	35,5	54	25,4	50,5	74,5	93
40	80	41	1,5	48	62,5	48,3	2	48	59	38,1	1,65	48	62,5	38,1	50,5	87	101,5
40	125	41	1,5	48	62,5	48,3	2	48	59	38,1	1,65	48	62,5	38,1	50,5	87	101,5

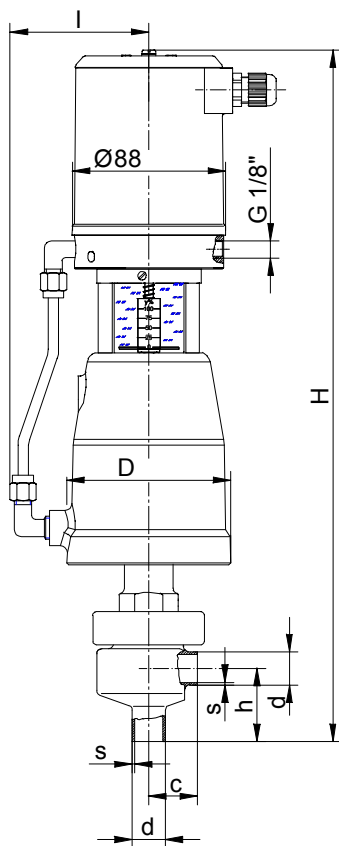
DN	Actuator Ø	D	I		H		H1		Weight (~kg)	
			8047		8047		8047		8047	
			p/p	i/p	p/p	i/p	p/p	i/p	p/p	i/p
15	80	96	90	80	338	368	366	396	4,1	4,4
20	80	96	90	80	338	368	366	396	4,1	4,4
25	80	96	90	80	355	385	394	424	4,6	4,9
25	125	146	105	105	375	405	414	464	7,3	7,6
40	80	96	90	80	370	400	409	439	5,9	6,2
40	125	146	105	105	390	420	429	459	8,6	8,9

Dimensions in mm

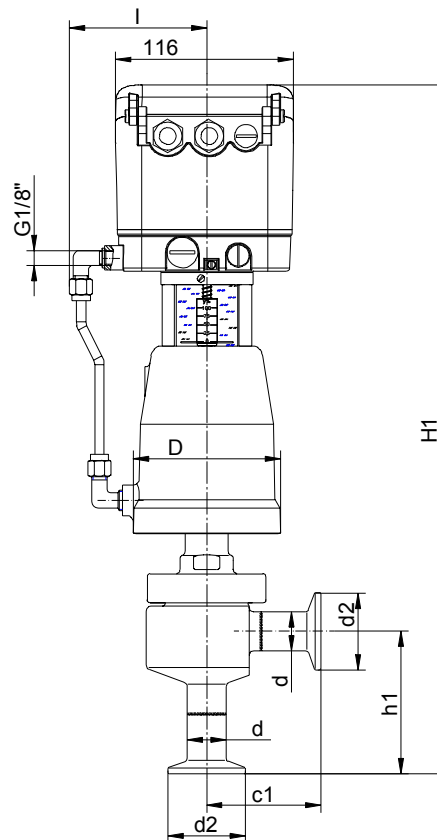
Hygiene Right Angle Control Valve 6020

with integrated digital positioner Dimensions and Weights

SCHUBERT & SALZER
**CONTROL
SYSTEMS**



Valve with positioner type 8048



Valve with positioner type 8049

DN	Actuator Ø	DIN DIN 11850 series 2				ISO				Inch				Tri-Clamp acc. Inch			
		d	s	c	h	s	c	h		d	s	c	h	d	d2	c1	h1
15	80	19	1,5	27,5	42	21,3	1,6	27,5	41	12,7	1,65	27,5	42	12,7	25	56	70,5
20	80	-	-	-	-	-	-	-	-	19,05	1,65	27,5	42	19,1	25	56	70,5
25	80	29	1,5	35,5	54,5	33,7	2	35,5	52	25,4	1,65	35,5	54	25,4	50,5	74,5	93
25	125	29	1,5	35,5	54,5	33,7	2	35,5	52	25,4	1,65	35,5	54	25,4	50,5	74,5	93
40	80	41	1,5	48	62,5	48,3	2	48	59	38,1	1,65	48	62,5	38,1	50,5	87	101,5
40	125	41	1,5	48	62,5	48,3	2	48	59	38,1	1,65	48	62,5	38,1	50,5	87	101,5

DN	Actuator Ø	D	I		H		H1		Weight (~kg)	
			8048	8049	8048	8049	8048	8049	8048	8049
15	80	96	90	80	398	395	427	424	4,5	4,8
20	80	96	90	80	398	395	427	424	4,5	4,8
25	80	96	90	80	415	412	454	451	5,0	5,3
25	125	146	105	105	435	432	474	471	7,7	8,0
40	80	96	90	80	429	426	468	465	6,3	6,6
40	125	146	105	105	449	446	488	485	9,0	9,3

Dimensions in mm

По вопросам продаж и поддержки обращайтесь:

Екатеринбург (343)384-55-89, Казань (843)206-01-48, Краснодар (861)203-40-90,

Москва (495)268-04-70, Санкт-Петербург (812)309-46-40

Единый адрес: ssr@nt-rt.ru

www.ssalzer.nt-rt.ru