

Right Angle Control Valve

1/2" up to 2"

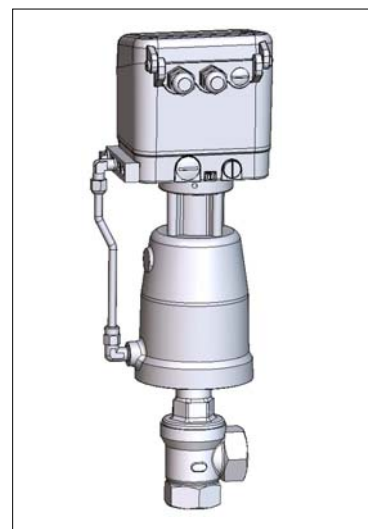
7051 SCHUBERT  SALZER INC.

Pneumatically operated valve for control loops with neutral up to highly aggressive media

- Integrated positioner
- Compact design
- All parts in contact with medium made from stainless steel
- For temperatures up to +392°F
- Operating pressures up to 580 psi

Technical Information

Nominal sizes	1/2" up to 2"
Body material	316
Connection	
Pipe thread NPT	1/2" - 2"
Nominal pressure	580 psi
Media temperature	-22°F up to +392°F
diaphragm act., stainless steel	-22°F up to +392°F
Ambient temperature	-22°F up to +140°F
Viscosity of media	max. 600 mm ² /s (600cSt, 80°E)
Vacuum	> 0,0295 mercury (Hg)
Working pressure for version without cavities	maximum 175 psi



Options

- Optical position indicator
- External i/p-converter 8045
- Inductive limit switches
- Ex-i/p-positioner (II 2G EEx ib IIC T6/T5)

Positioners:

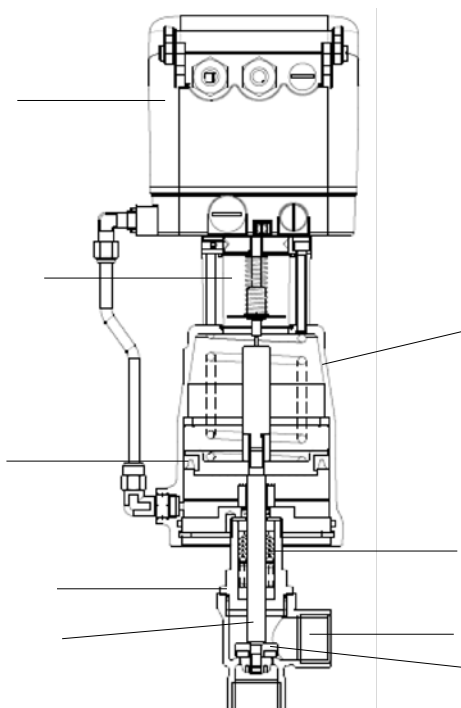
p/p-positioner body brass chrome plated
Type 8047
i/p-positioner body brass/aluminium
Type 8047
digital positioner body aluminium anodized
Type 8049

position indicator
PA Trogamid (clear)

outer lip

head section

piston rod
stainless steel 316
roller burnished



bonnet chrome plated brass
(actuators Ø 2", Ø 3")
aluminium, corrosion protected
(actuator Ø 5"),
option: reinforced plastic material
bonnets in stainless steel available,
if desired

packing from filled PTFE, special
version for reduced hollow spaces

stainless steel body 316 L

seating seal

SCHUBERT & SALZER
CONTROL
SYSTEMS

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Right Angle Control Valve 7051

with integrated positioner



Cv- Values

DN	Linear						Equal percentage					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
100 %	6	12.2	19.1	29	46.4	66.1	4.8	10.8	13.9	18.6	37.1	-
40 %	2.4	4.9	7.7	11.6	18.6	-	2	4.3	5.6	7.4	14.8	-
25 %	1.5	3.1	4.8	-	-	-	1.2	2.7	3.5	-	-	-

Admissible Pressures

digital positioner

DN	Pressure	Supply pressure range	Piston Ø	Spring configuration
	psi	psi	inch	number
1/2"	235	60 - 90	3"	2
3/4"	235	60 - 90	3"	2
1"	235	60 - 90	3"	1
1 1/4"	145	60 - 90	3"	1
1 1/4"	235	45 - 90	5"	2
1 1/2"	85	60 - 90	3"	1
1 1/2"	235	60 - 90	5"	3

p/p-positioner i/p-positioner

DN	Pressure	Supply pressure range	Piston Ø	Spring configuration
	psi	psi	inch	number
1/2"	235	60 - 90	3"	2
3/4"	235	60 - 90	3"	2
1"	175	60 - 90	3"	1
1 1/4"	100	60 - 90	3"	1
1 1/4"	190	45 - 90	5"	2
1 1/2"	60	60 - 90	3"	1
1 1/2"	160	60 - 90	5"	3

diaphragm actuator, direct pressure range

DN	Differential pressure (psi)		Supply air (psi)		Diaphragm area
	spring range		spring range		inch
	3 - 15 psi	6 - 29 psi	3 - 15 psi	6 - 29 psi	
1/2"	235	235	20	35	10"
3/4"	235	235	20	35	10"
1"	130	235	20	35	10"
1 1/4"	75	220	20	35	10"
1 1/2"	45	145	20	35	10"
2"	30	90	20	35	10"

Positioner

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

Right Angle Control Valve 7051, reinforced design

with integrated positioner

2" 580 psi

Admissible Pressures

digital positioner

DN	Max. pressure (psi)		Supply pressure range	Piston Ø	Spring configuration
	PTFE	PEEK	psi	inch	Number
2"	45	-	60 - 90	3"	1
2"	130	45	60 - 90	5"	3
2"	175	75	45 - 90	10"	6
2"	230	145	60 - 90	10"	8
2"	230	230	60 - 90	10"	12

p/p-positioner i/p-positioner

DN	Differential pressure (psi)	Supply pressure range	Piston Ø	Springs
	PTFE	psi	inch	number
2"	29	60 - 90	3"	1
2"	87	60 - 90	5"	3
2"	174	60 - 90	10"	10
2"	232	60 - 90	10"	12

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INC.

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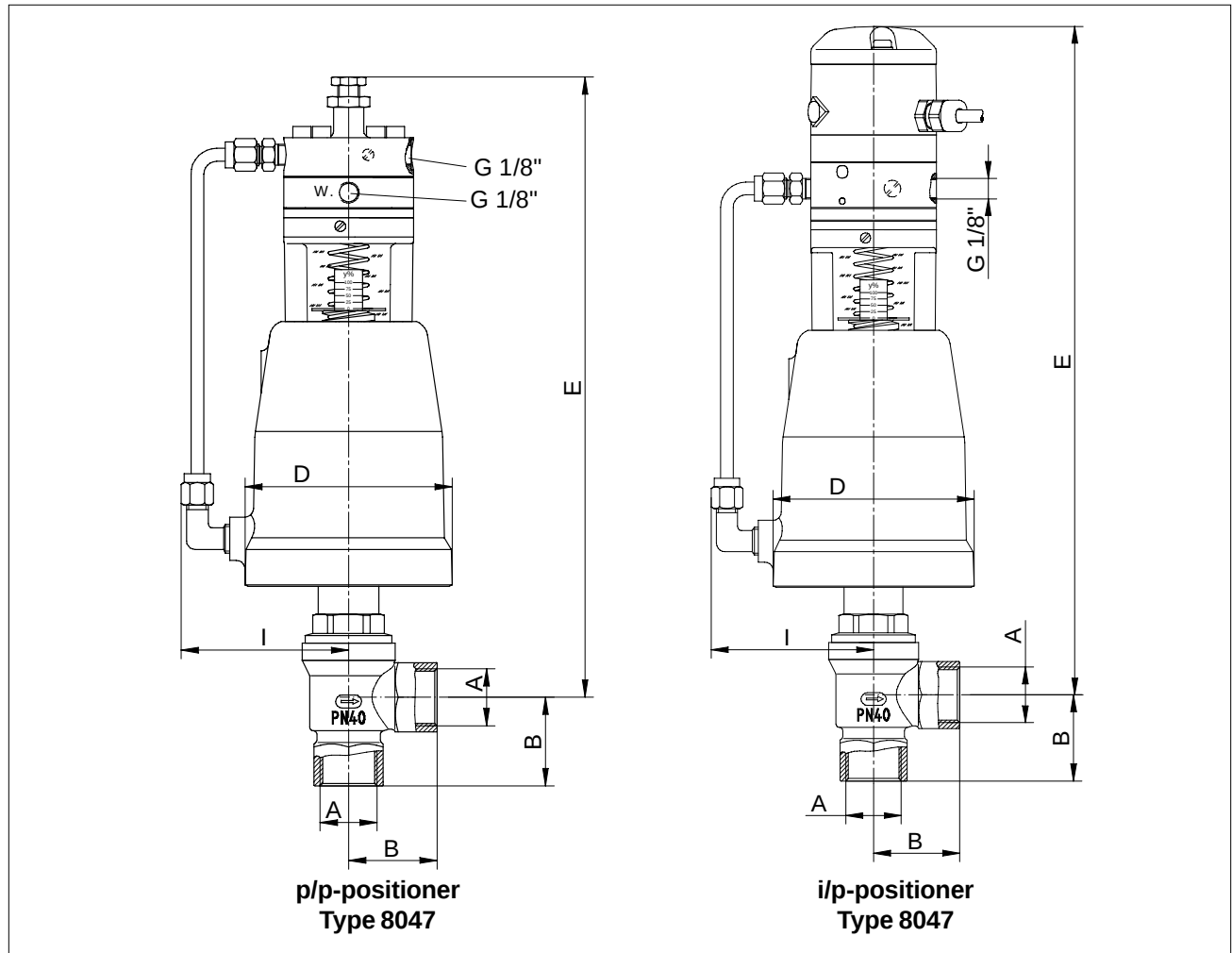
7 - 12: Quote only if required.

Ordering Example: 7051/020V7020C8 Right angle control valve 7051, 3/4", pipe thread, body material stainless steel, seating seal PTFE, digital positioner 4 wire with position indicator, actuator 3" (NPT), linear flow characteristic 100%, Cv-value 12,2
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Ordering Example: 7051/050V7020CD-----S-----K Right angle control valve 7051, 2", pipe thread , body material stainless steel, seating seal PTFE, digital positioner 8049 4-wire, actuator 10" (NPT) , linear flow characteristic 100 % , Cv-value 66,1, reinforced design "K" reinforced design

Right Angle Control Valve 7051, piston actuator with integrated positioner

Dimensions and Weights



DN	Actuator	A	B	D	I	E positioner		weight (lbs)		Stroke
						p/p	i/p	p/p	i/p	
1/2"	3"	1/2"	1.6	3.8	3.15	11.05	12.5	8.1	8.8	0.39
3/4"	3"	3/4"	1.6	3.8	3.15	11.1	12.55	8.4	9	0.51
1"	3"	1"	1.6	3.8	3.15	11.6	13.05	8.8	9.5	0.59
1 1/4"	3"	1 1/4"	2.55	3.8	3.15	11.6	13.05	9.5	10.1	0.71
1 1/4"	5"	1 1/4"	2.55	5.75	4.15	12.4	13.85	15.2	15.8	0.71
1 1/2"	3"	1 1/2"	2.55	3.8	3.15	11.75	13.25	10.1	10.8	0.94
1 1/2"	5"	1 1/2"	2.55	5.75	4.15	12.55	14	0.3	0.3	0.94

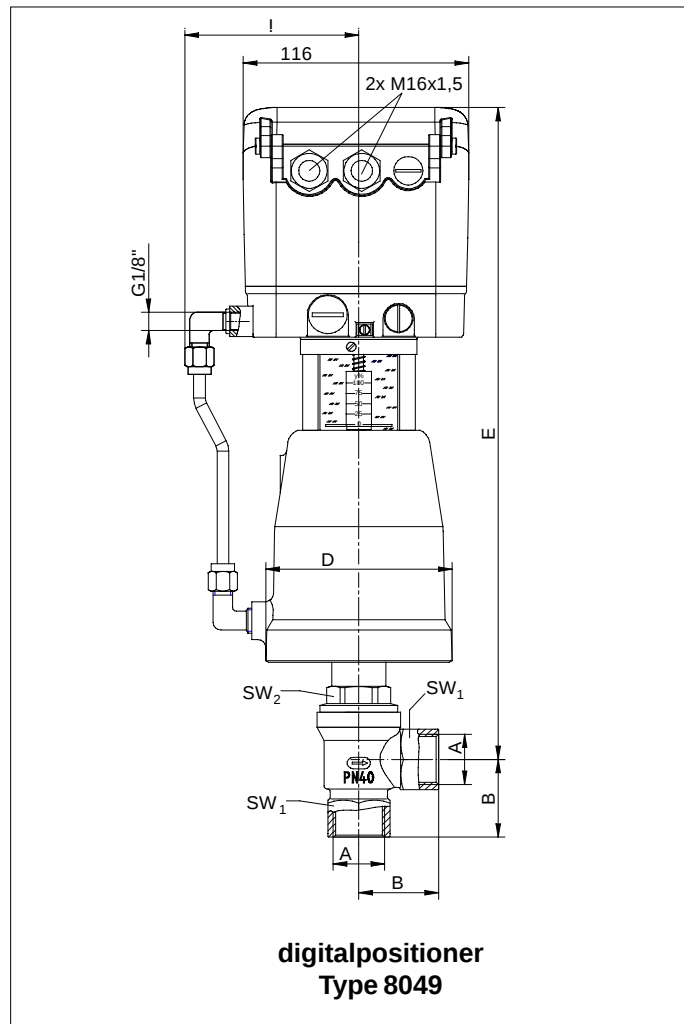
reinforced design:

2"	3"	2"	2.55	3.8	3.15	12.45	13.9	0.2	0.2	0.94
2"	5"	2"	2.55	5.75	4.15	13.25	14.7	0.3	0.3	0.94

Dimensions in inch

Right Angle Control Valve 7051, piston actuator with integrated positioner

Dimensions and Weights



DN	Actuator	A	B	D	E	Stroke red.	I	SW1	SW2	Kvs- value	Weight lbs
1/2"	3"	1/2"	1.61	3.78	13.5	0.39	3.54	0.98	1.18	4.1	9.7
3/4"	3"	3/4"	1.61	3.78	13.54	0.51	3.54	1.26	1.18	9.3	9.9
1"	3"	1"	1.61	3.78	14.06	0.59	3.54	1.61	2.36	18.6	10.3
1 1/4"	3"	1 1/4"	2.56	3.78	14.06	0.71	3.54	1.97	1.18	27.8	11
1 1/4"	5"	1 1/4"	2.56	5.75	14.88	0.71	4.13	1.97	1.18	27.8	16.7
1 1/2"	3"	1 1/2"	2.56	3.78	14.21	0.94	3.54	2.17	1.26	40.6	11.7
1 1/2"	5"	1 1/2"	2.56	5.75	15.04	0.94	4.13	2.17	1.26	40.6	17.4

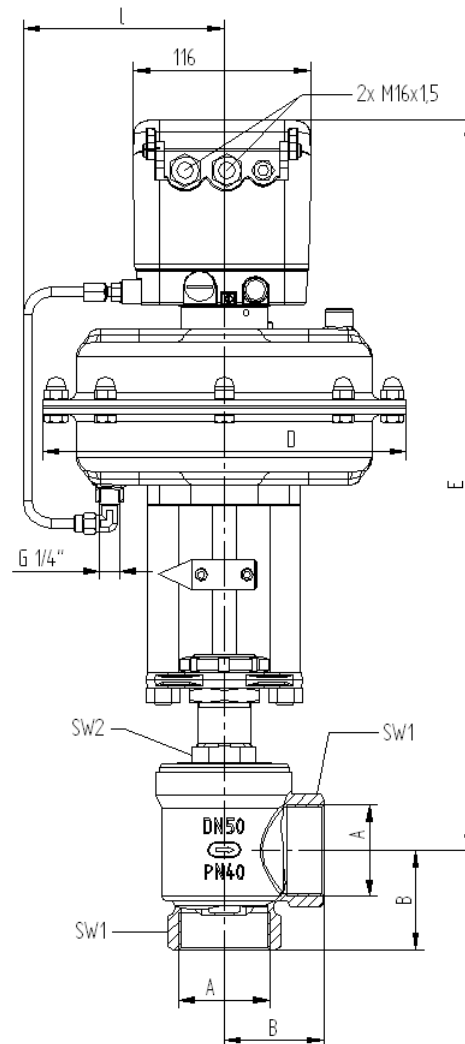
reinforced design:

2"	3"	2"	2.56	3.78	14.88	0.94	3.54	2.68	1.42	63.8	13
2"	5"	2"	2.56	5.75	15.71	0.94	4.13	2.68	1.42	63.8	18.7

Dimensions in inch

Right Angle Control Valve 7051, diaphragm actuator with integrated positioner

Weights and Dimensions



**diaphragm actuator with digital
positioner Type 8049**

DN	Actuator	A	B	D	E	Stroke red.	I	SW1	SW2	Kvs- value	Weight lbs
1/2"	10"	1/2"	1.61	9.37	16.54	0.39	5.31	0.98	1.18	5.8	28.2
3/4"	10"	3/4"	1.61	9.37	16.54	0.51	5.31	1.26	1.18	12.8	28.4
1"	10"	1"	1.61	9.37	17.13	0.59	5.31	1.61	1.18	19.7	28.8
1 1/4"	10"	1 1/4"	2.56	9.37	17.91	0.71	5.31	1.97	1.18	29	35.4
1 1/2"	10"	1 1/2"	2.56	9.37	18.11	0.94	5.31	2.17	1.26	46.4	36.1
2"	10"	2"	2.56	9.37	18.9	0.94	5.31	2.68	1.42	66.1	37.4

Dimensions in inch