flange-control valve
series SEC03

Pneumatically operated control valves for neutral through to highly aggressive media.

- Integrated positioner
- Compact design
- All parts contacting the fluid made from stainless steel
- Temperatures up to 200°C
- Working pressure up to 40 bar

TÜVRheinland®
TA-Luft zertifiziert

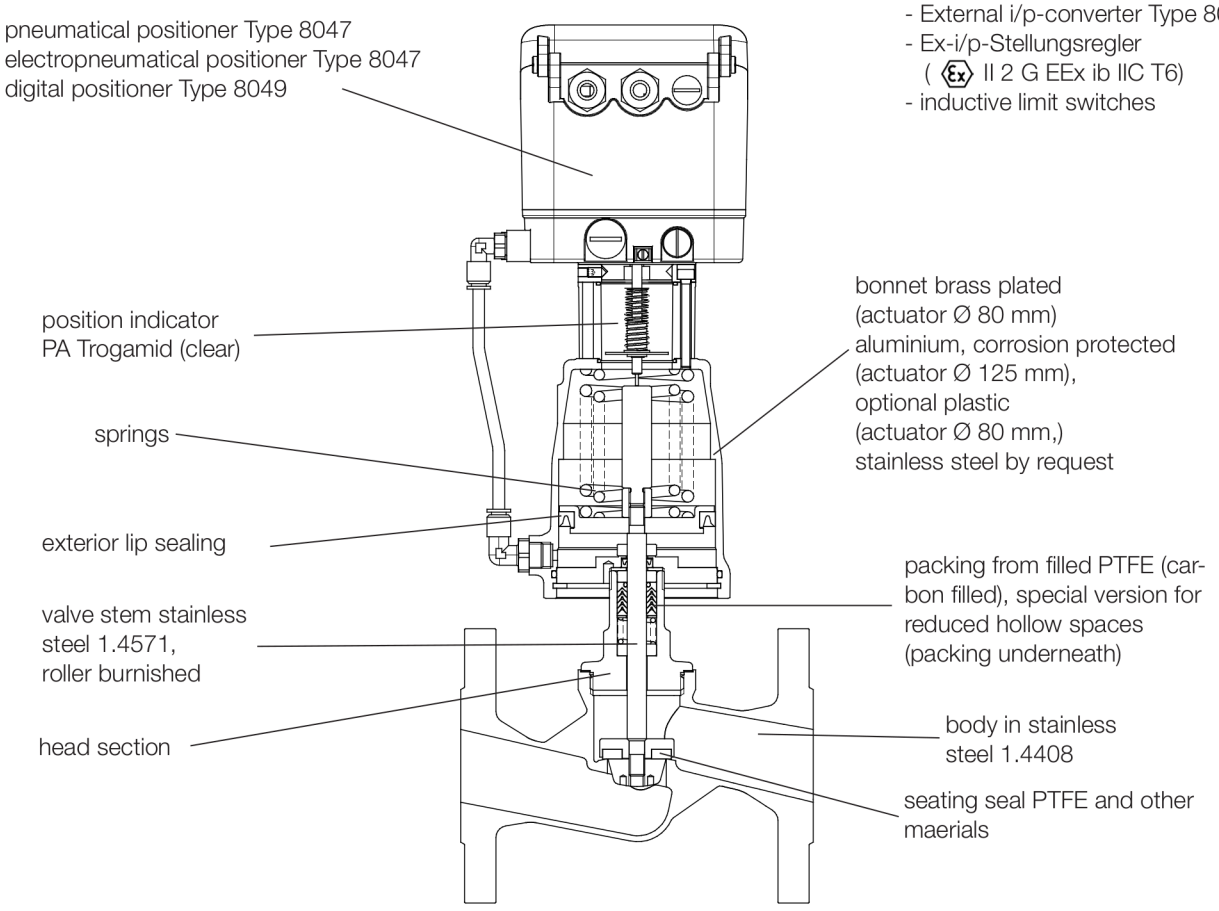
Technical Information

Nominal sizes	DN 15 up DN 50
Body material	1.4408
Connection	Flanges acc. DIN EN 1092-1 Flanges acc. ANSI #150
Dimensions	Acc. DIN EN 558-1 row 1 Acc. ANSI/ISA-75.08.01
Dimensions	Acc. DIN EN 558-1 row 1
Pipe thread acc. DIN/ISO	1/2" - 2"
Nominal pressure	PN 40
Media temperature*	-30°C up to +200°C

*: Please consider further temperature versions and limits in technical bulletin 32

Options

e. g.:
- Optical position indicator
- External i/p-converter Type 8045
- Ex-i/p-Stellungsregler
  (Ex II 2 G EEx ib IIC T6)
- inductive limit switches



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standard design with integrated positioner

Materials

Body	Stainless steel 1.4408
Seating seal	PTFE
Bonnet	Brass chrome plated (actuator Ø 80 mm) Aluminium (actuator Ø 125 mm) Bonnets in stainless steel available, if desired
Actuator springs	Edelstahl 1.4310 (Antrieb 80 mm) Spring steel wire C, zinc coated (actuator Ø 125 mm)
Packing	PTFE (carbon filled), spring 1.4310
Valve stem	Stainless steel 1.4571, roller burnished
Position indicator	PA Trogamid (clear)

Positioner

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

Admissible Differential Pressures

digital positioner

DN	Differential pressure	Supply pressure range	Piston Ø	Springs
	bar	bar	mm	Number
15	17	4 - 6	80	2 *
20	17	4 - 6	80	2
25	17	4 - 6	80	1
32	10	4 - 6	80	1
32	17	3 - 6	125	2
40	6	4 - 6	80	1
40	17	4 - 6	125	3
40	17	3 - 6	250	6

* special springs

p/p- and i/p-postioner

DN	Differential pressure	Supply pressure range	Piston Ø	Springs
	bar	bar	mm	Number
15	17	4 - 6	80	2
20	17	4 - 6	80	2
25	12	4 - 6	80	1
32	7	4 - 6	80	1
32	13	3 - 6	125	2
40	4	4 - 6	80	1
40	11	4 - 6	125	3

* special springs

diaphragm actuator, direct pressure range

	Differential pressure (bar)		Supply air (bar)		Diaphragm area
DN	spring range		spring range		mm
	0,2 - 1 bar	0,4 - 2 bar	0,2 - 1 bar	0,4 - 2 bar	
15	16	16	1,2	2,4	250
20	16	16	1,2	2,4	250
25	9	16	1,2	2,4	250
32	5	15	1,2	2,4	250
40	3	10	1,2	2,4	250
50	2	6	1,2	2,4	250

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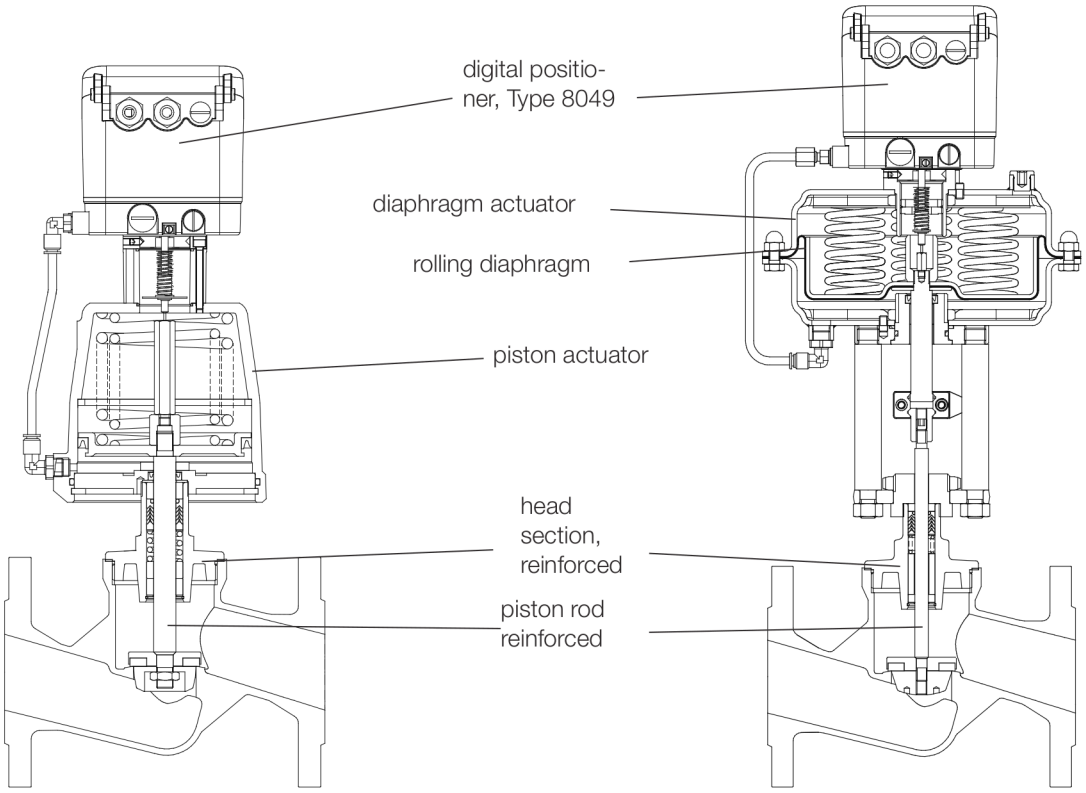
ıforced design with integrated positioner

ɔ, PN40



issible Differential Pressures

positioner

Differential pressure (bar)		Supply pressure range	Piston Ø	Springs
PTFE	PEEK	bar	mm	number
3	-	4 - 6	80	1
9	3	4 - 6	125	3
12	5	3 - 6	250	6
16	10	4 - 6	250	8*
16	16	4 - 6	250	12

p/p- and i/p-postioner

DN	Differential pressure (bar)	Supply pressure range	Piston Ø	Springs
	PTFE	bar	mm	number
50	2	4 - 6	80	1
50	6	4 - 6	125	3
50	12	4 - 6	250	10
50	16	4 - 6	250	12*

*Standard spring configuration

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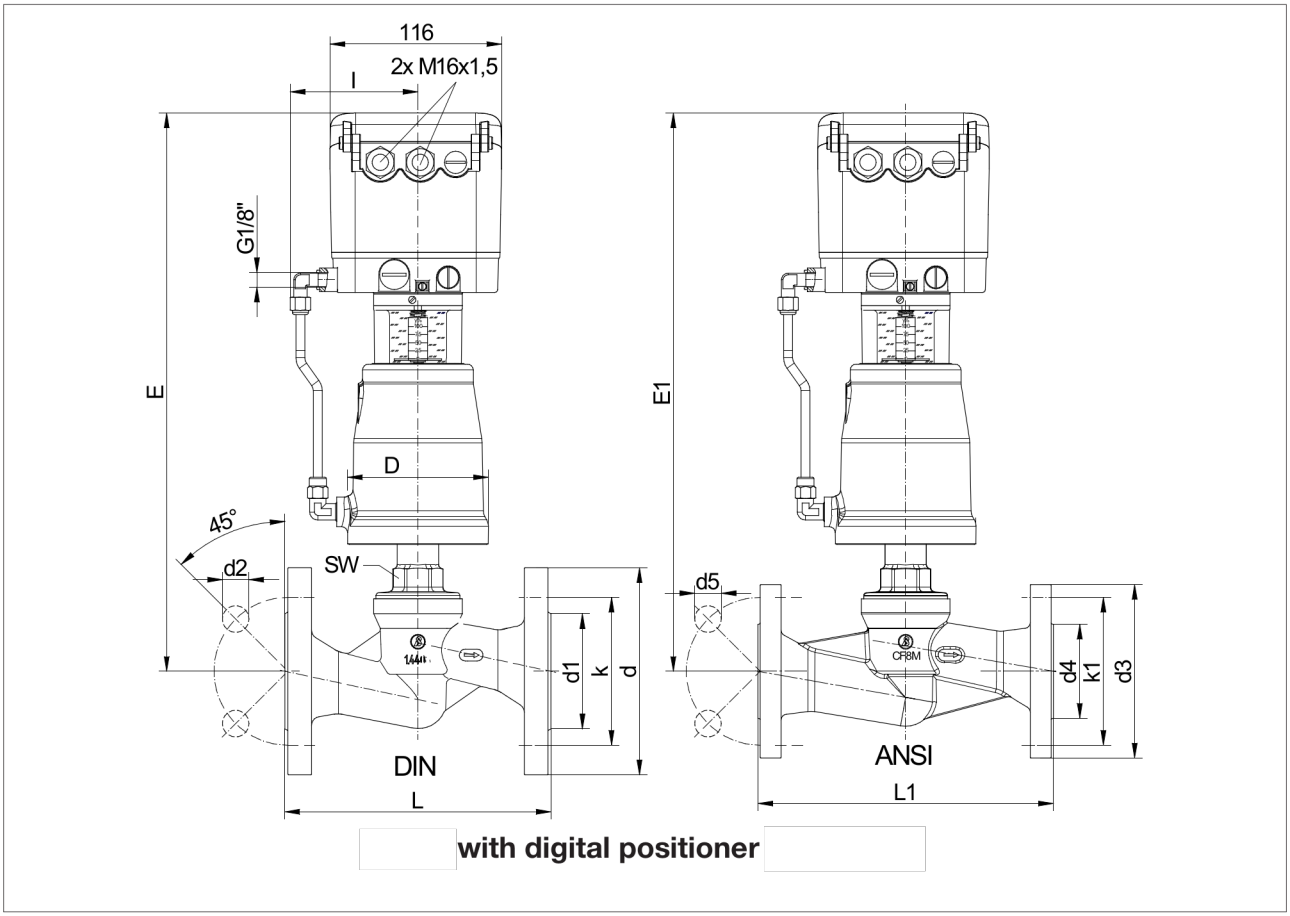
piston actuator with integrated positioner

Dimensions and Weights



DN	Actuator	L	L1	D	d	d1	d2	d3	d4	d5	k	k1	E	E1	G	I	SW
15	80	130	184	98	95	45	14	88,9	35,1	15,7	65	60,5	353	353	1/4"	55	30
20	80	150	184	98	105	58	14	98,6	42,9	15,7	75	69,9	357	357	1/4"	55	30
25	80	160	184	98	115	68	14	108	50,8	15,7	85	79,2	374	375	1/4"	55	30
32	80	180	200	98	140	78	18	117	63,5	15,7	100	88,9	379	379	1/4"	55	30
32	125	180	200	144	140	78	18	117	63,5	15,7	100	88,9	399	399	1/4"	55	30
40	80	200	222	98	150	88	18	127	73,2	15,7	110	98,6	384	384	1/4"	55	30
40	125	200	222	144	150	88	18	127	73,2	15,7	110	98,6	405	405	1/4"	55	30

Dimensions in mm

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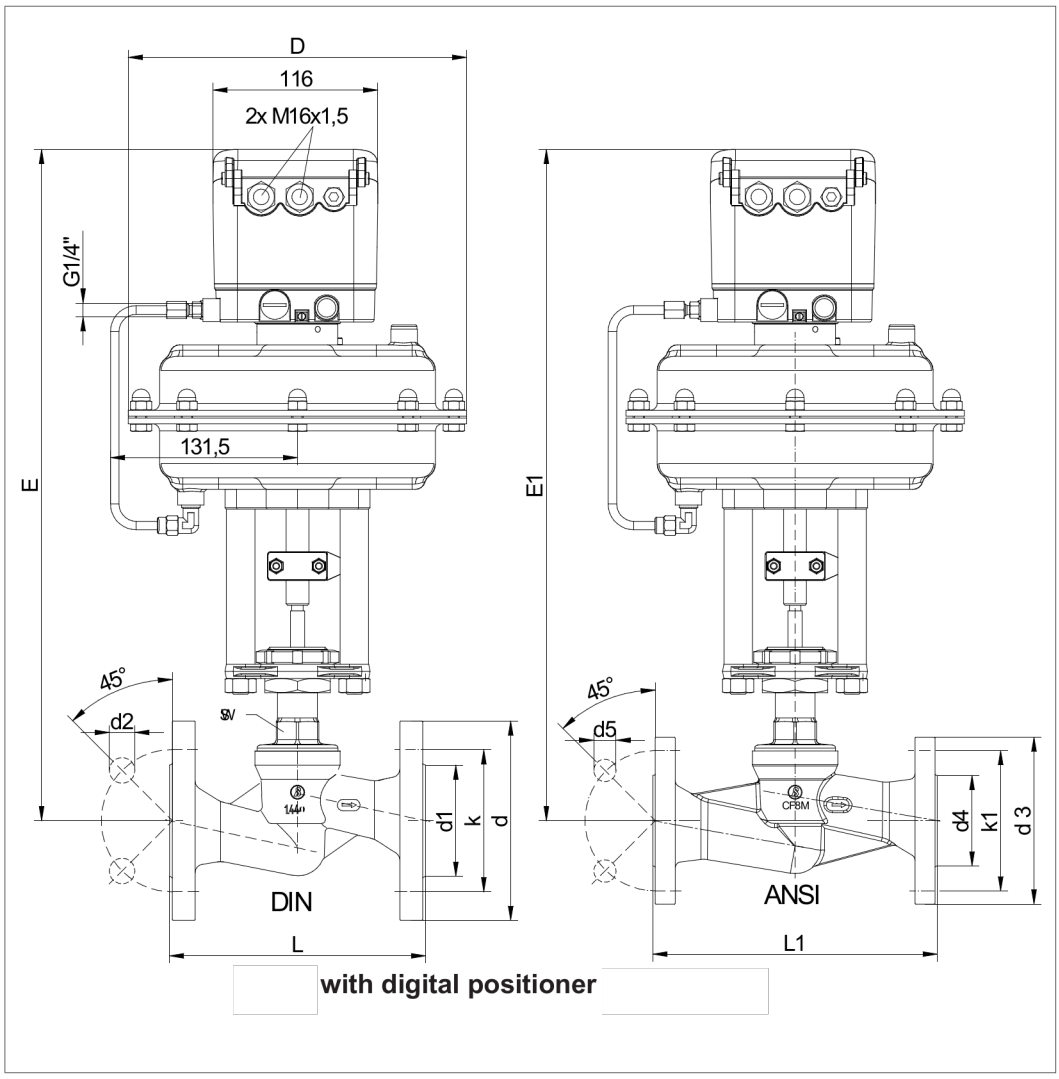
diaphragm actuator with integrated positioner

Dimensions and Weights



DN	Actuator	L	L1	D	d	d1	d2	d3	d4	d5	k	k1	E	E1	G	SW
15	250	130	184	238	95	45	14	88,9	35,1	15,7	65	60,5	446	447	1/4"	30
20	250	150	184	238	105	58	14	98,6	42,9	15,7	75	69,9	451	451	1/4"	30
25	250	160	184	238	115	68	14	108	50,8	15,7	85	79,2	468	468	1/4"	30
32	250	180	200	238	140	78	18	117	63,5	15,7	100	88,9	472	472	1/4"	30
40	250	200	222	238	150	88	18	127	73,2	15,7	110	98,6	478	478	1/4"	36
50*	250	230	254	238	165	102	18	152	91,9	19,1	125	121	508	501	1/4"	36

* reinforced version

Dimensions in mm

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