Flanged Control Valve 7037

DN 15 up to DN 80, PN 40

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
- For temperatures from -100°C up to +220°
- Also in pressure relased version

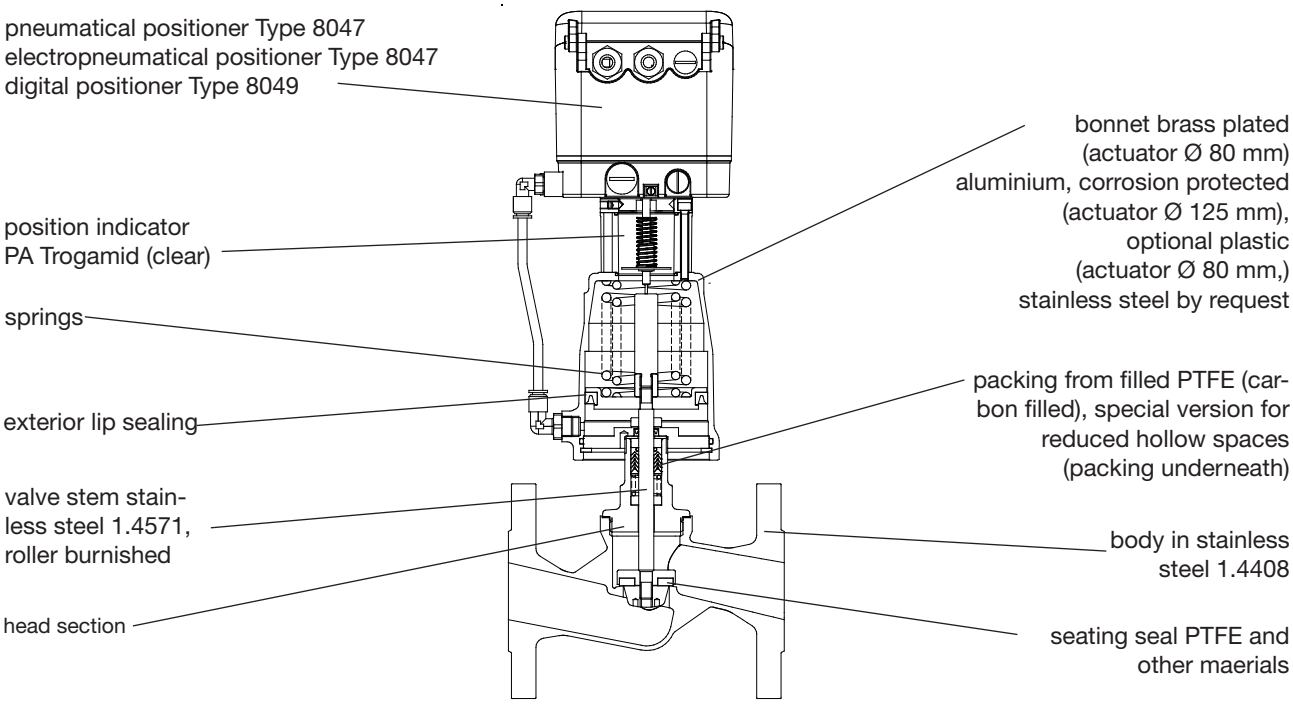
Technical Information

Nominal sizes	DN 15 up DN 80
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
Nominal pressure	PN 40, ANSI #150
Max. fluid temperature: with metal bonnet with plastic bonnet with diaphragm actuator	-30°C bis +200°C, opt. -100°C bis +220°C -30°C up to +135°C -30°C up to +200°C, opt. -30°C up to +220°C
Ambient temperature**	digital positioner -10°C up to +75°C analog positioner -15°C up to +60°C
Packing leakage	tested according to TA-Luft as defined in DIN EN ISO 15848-1 and VDI 2440 ISO FE BH - CC3 - SSA1 - t (-30°C, +80°C) Test pressure 40 bar

*: Please consider further temperature versions and limits in technical bulletin 32
**: Please consider the limitation of use of the positioner

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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Flanged Control Valve 7037

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	Stainless steel 1.4310 (actuator 80 mm) Spring steel strand C, plastic-coated (actuator 125 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

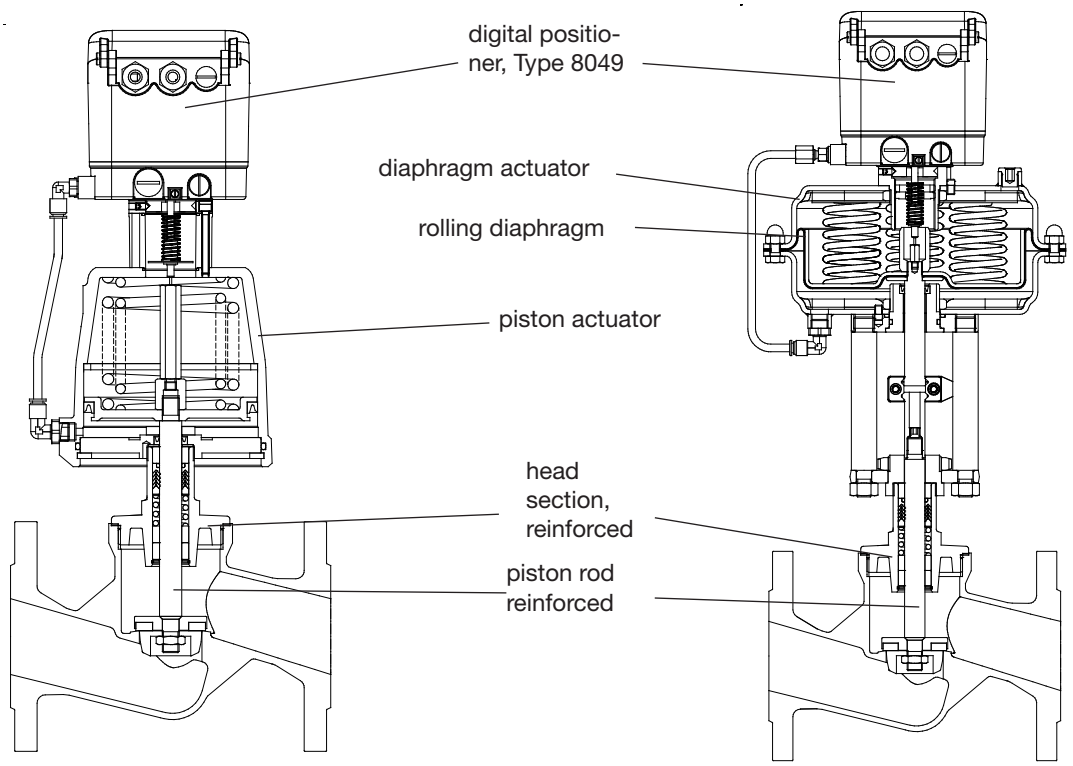
diaphragm actuator, direct pressure range

DN	Differential pressure spring range		Supply air spring range		Diaphragm area
	0,2-1 bar	0,4-2 bar	0,2-1 bar	0,4-2 bar	mm
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

Flanged Control Valve 7037

reinforced design with integrated positioner

DN50, PN40



Admissible Differential Pressures

digital positioner

DN	Differential pressure (bar)		Supply pressure range	Piston Ø	Springs
	PTFE	PEEK	bar	mm	number
50	3	-	4 - 6	80	1
50	9	3	4 - 6	125	3
50	12	5	3 - 6	250	6
50	16	10	4 - 6	250	8*
50	16	16	4 - 6	250	12
65	6	5	4 - 6	125	3
65	13	12	4 - 6	250	12
80	4	3	4 - 6	125	3
80	9	8	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*
65	2,5	4 - 6	125	3
65	9	4 - 6	250	12
80	2,5	4 - 6	125	3
80	6	4 - 6	250	12

*Standardspringconfiguration

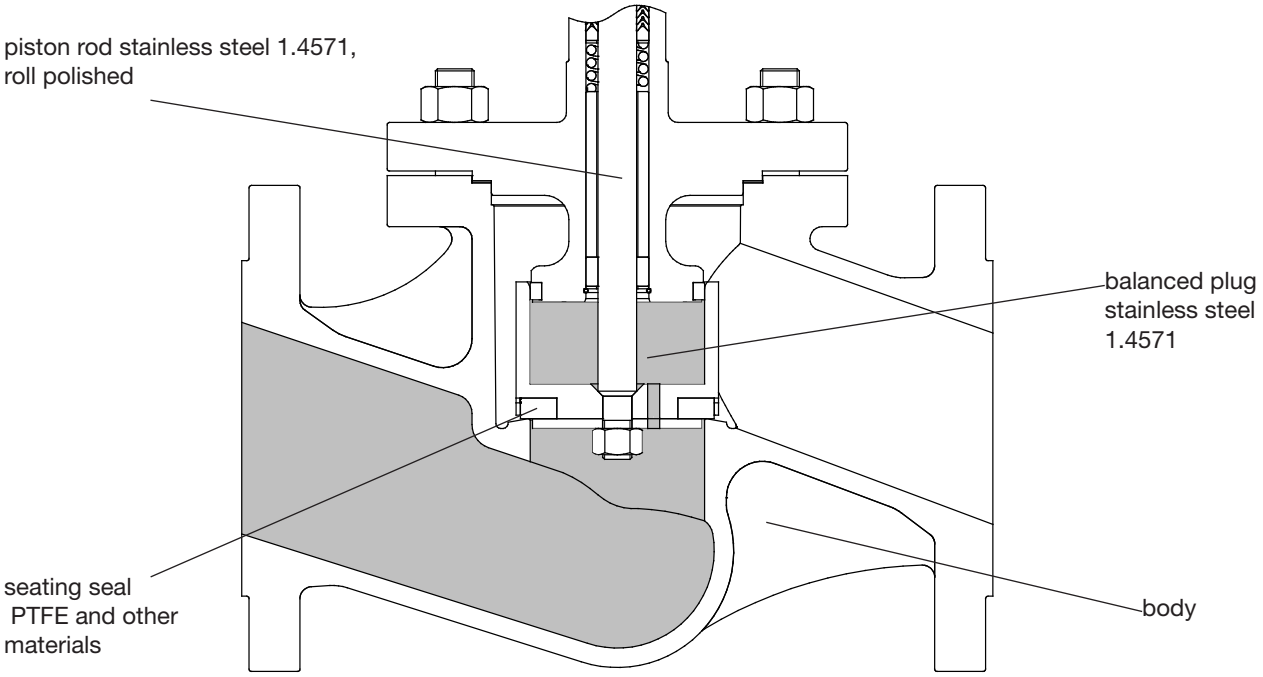
Kvs-Values (valid for standard and reinforced design)

	linear								equal percentage							
DN	15	20	25	32	40	50	65	80	15	20	25	32	40	50	65	80
100 %	3,2	5,8	10,8	16	22	33,5	43	60	3	5,4	10	15,5	20	28	38	50
63 %	-	3,5	-	10	13,2	20,1	27	-	-	3,3	-	9,3	12	18	24	-
40 %	1,3	2,3	4,3	6,4	8,8	13,4	-	-	1,3	2,2	4	6,2	8	-	-	-
25 %	0,8	-	2,7	-	-	-	-	-	0,8	-	2,7	-	-	-	-	-

Flanged Control Valve 7037

pressure relased design with integrated positioner

Admissible Differential Pressures



digital positioner

DN	Differential pressure (bar)		Supply pressure range	Piston Ø	Springs
	PTFE	PEEK	bar	mm	number
65	16	16	4 - 6	125	3
65	16	16	1,5 - 6	250	4
80	16	16	4 - 6	125	3
80	16	16	1,5 - 6	250	4

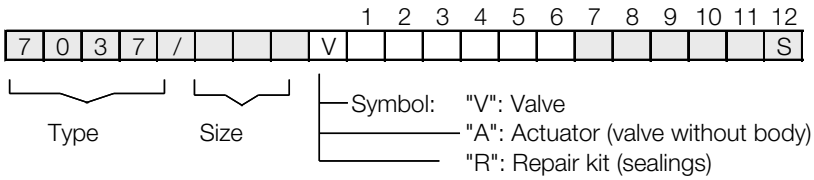
p/p- and i/p-postioner

DN	Differential pressure (bar)		Supply pressure range	Piston Ø	Springs
	PTFE	PEEK	bar	mm	number
65	16	16	4 - 6	125	3
80	16	16	4 - 6	125	3

Flanged Control Valve 7037

with integrated positioner

Ordering Number System



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

1. Body type		2. Connection		3. Body material		4. Seat material		5. Pilot function		6. Actuator	
9	flange control valve Type 7037	1	DIN flange	2	stainless steel 1.4408	0	PTFE (Teflon)	6	p/p positioner + position indicator Type 8047	1	piston 80 mm
		2	ANSI #150			7	PEEK	7	i/p-positioner with cable type 8047, IP 54	2	piston 125 mm
								8	i/p-positioner with plug M12x1	C	diaphragm actuator 250 cm²
								9	i/p-positioner with plug M12x1, II 2G EEx ib IIC T6		
								C	digital positioner type 8049, 4-wire version, IP 65		
								R	digital positioner type 8049 ExPro-FM with base plate in stainless steel		
								W	digital positioner type 8049, IO-Link version, IP65, Plug-in connection M12		
								K	digital positioner type 8049, 2-wire version, IP 65		
								N	digital positioner type 8049 ExPro, II 2G Ex ia IIC T4 Gb, IP 65		
								Y	digital positioner type 8049 ExPro-FM with base plate in stainless steel		

7. Springs		8. Characteristic		9. Packing		10. Kvs-Values		11. Accessories		12. Special versions	
-	standard spring configuration	-	linear	-	standard packing underneath	-	100 %	-	without	S	to state if further sections are quoted
1	NO (only with digital positioner)	1	equal percentage	2		1	red. 40%	6	pilot-valve DN2 230V AC		
						2	red. 25%	7	pilot-valve DN2 24V DC		
						3	red. 15%				
						4	red. 7,5%				
						5	red. 22,5%				
						6	red. 10%				

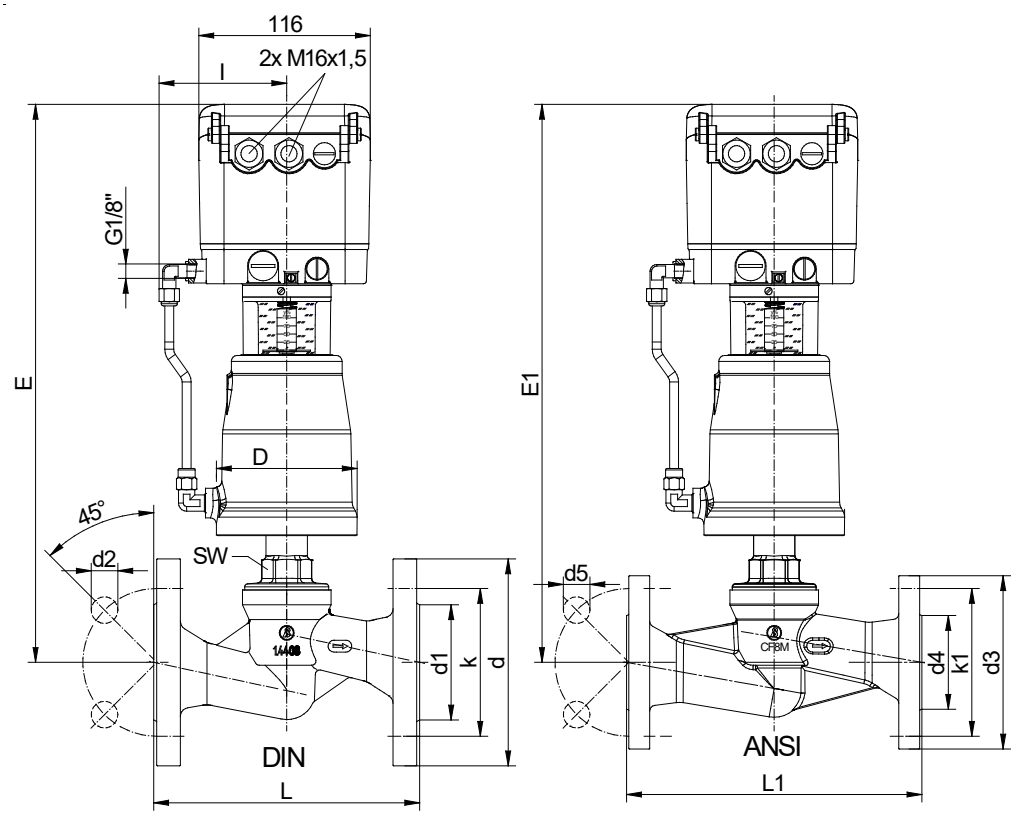
Ordering Example: 7037/020V9120R1
Flanged Control Valve, nominal size DN20, with DIN-flanges, body material stainless steel, seating seal PTFE, digital positioner Type 8049 2-wire, actuator 80 mm, linear characteristic 100 %

reinforced design (from 2“):

Ordering Example: 7037/020V9120RC-----S-------K
Flanged Control Valve, nominal size DN20, with DIN flanges, body material stainless steel 1.4408, seating seal PTFE, digital positioner Type 8049 2-wire, piston diaphragm 250 cm², linear characteristic 100 %, reinforced design

„K“ reinforced design

Dimensions and Weights DN15 up to DN40



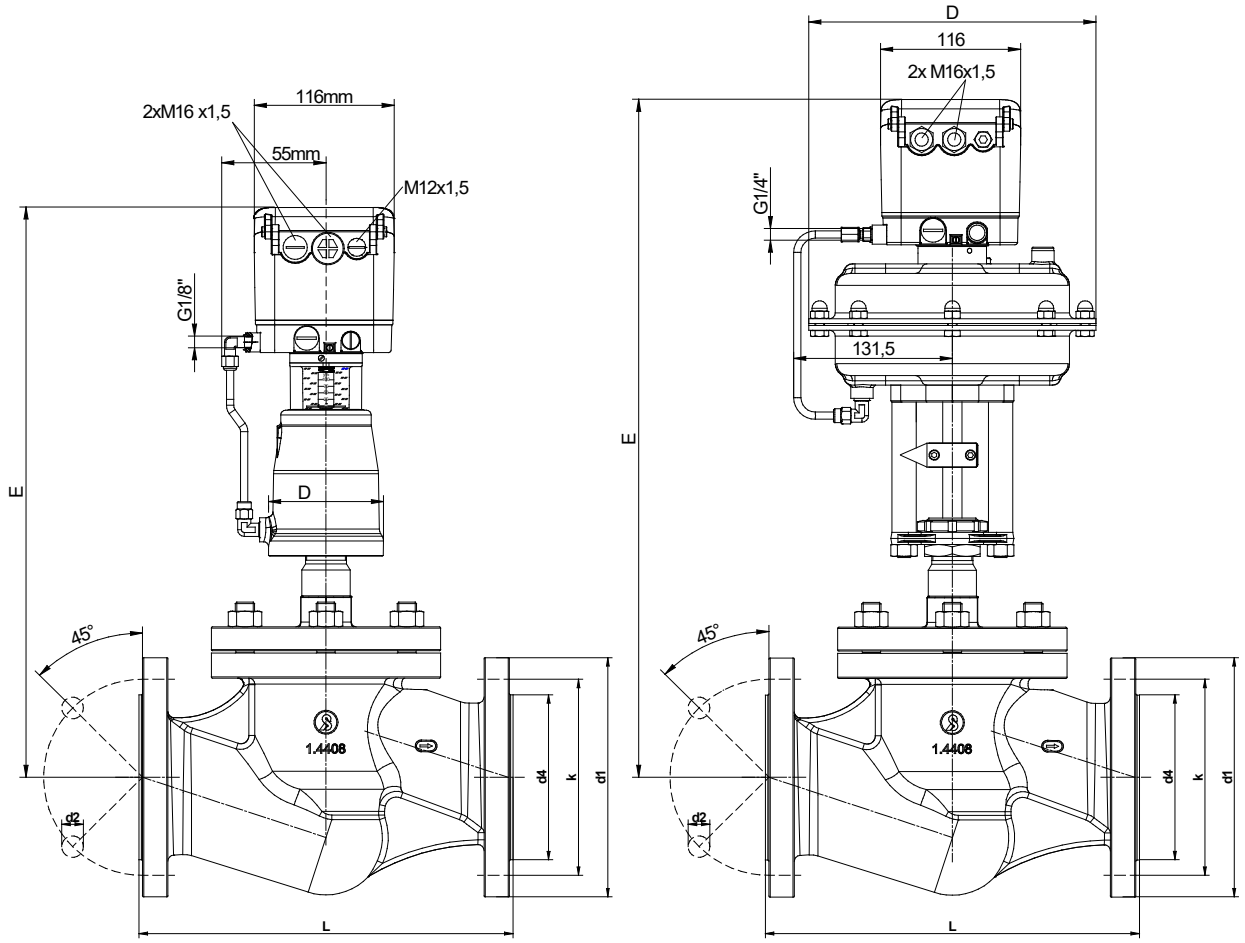
7037 with digital positioner Type 8049

DN	Actuator	L	L1	D	d	d1	d2	d3	d4	d5	k	k1	E	E1	G	I	SW	Weight [kg]
15	80	130	184	98	95	45	14	88,9	35,1	15,7	65	60,5	352,9	352,9	1/4“	55	30	5,6
20	80	150	184	98	105	58	14	98,6	42,9	15,7	75	69,9	357,4	357,4	1/4“	55	30	6,5
25	80	160	184	98	115	68	14	108	50,8	15,7	85	79,2	374,4	374,5	1/4“	55	30	7,0
32	80	180	200	98	140	78	18	117,3	63,5	15,7	100	88,9	378,5	378,5	1/4“	55	30	9,8
32	125	180	200	144	140	78	18	117,3	63,5	15,7	100	88,9	398,8	398,8	1/4“	55	30	11,6
40	80	200	222	98	150	88	18	127	73,2	15,7	110	98,6	384,4	384,4	1/4“	55	30	10,5
40	125	200	222	144	150	88	18	127	73,2	15,7	110	98,6	404,8	404,8	1/4“	55	30	12,3
50*	80	230	254	98	165	105	18	153	92	19,1	125	120,7	415	415	1/4“	55	30	12,2
50*	125	230	254	144	165	105	18	153	92	19,1	125	120,7	426	426	1/4“	55	30	15,0

*Reinforced version

Dimensions in mm

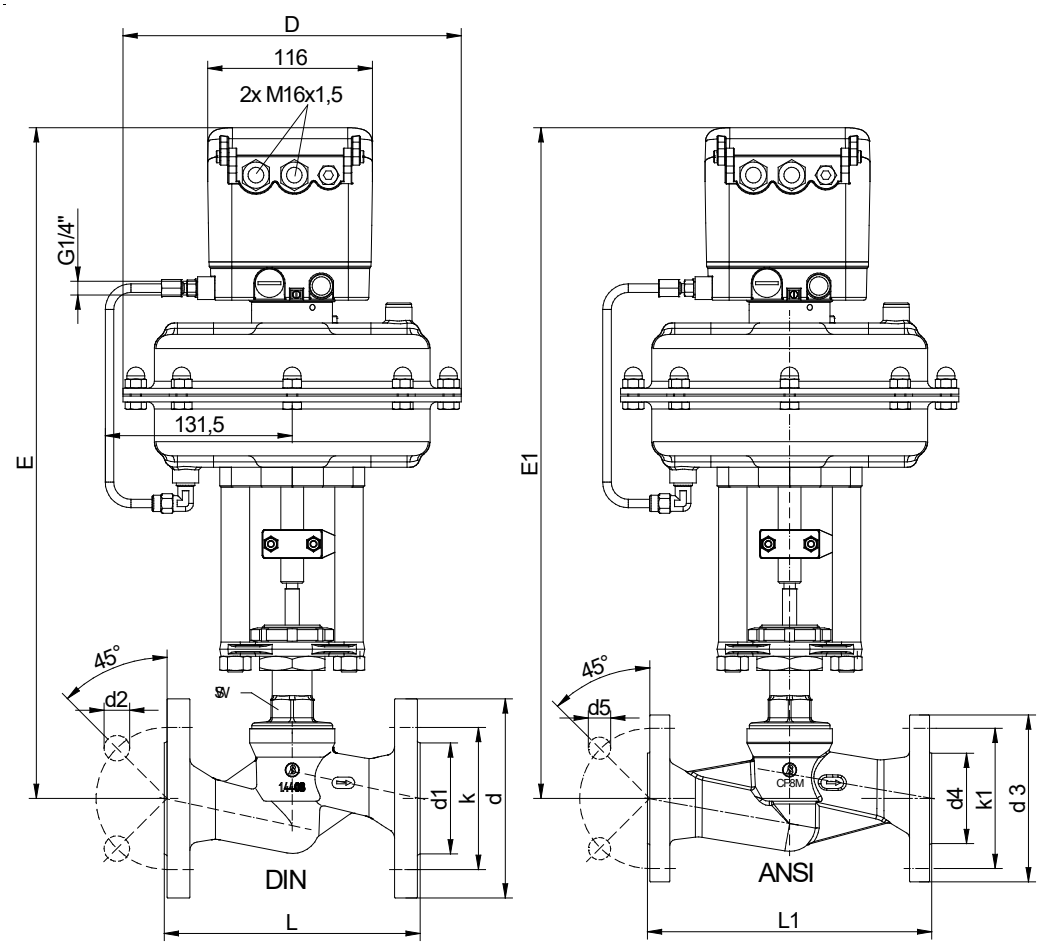
Dimensions and Weights DN60 and DN80



DN	Actuator	L	D	d1	d2	d4	k	E	G	Weight [kg]
65	80	290	96	185	18	122	145	467	G1/4“	26
65	125	290	146	185	18	122	145	492	G1/4“	28
65	250	290	238	185	18	122	145	557	G1/4“	33
80	80	310	96	200	18	138	160	477	G1/4“	33
80	125	310	146	200	18	138	160	502	G1/4“	35
80	250	310	238	200	18	138	160	568	G1/4“	39

Dimensions in mm

Dimensions and Weights DN 15 up to DN80



7037 with digital positioner Type 8049

DN	Actuator	L	L1	D	d	d1	d2	d3	d4	d5	k	k1	E	E1	G	SW	Weight [kg]
15	250	130	184	238	95	45	14	88,9	35,1	15,7	65	60,5	446,1	447,1	1/4“	30	12
20	250	150	184	238	105	58	14	98,6	42,9	15,7	75	69,9	450,6	450,6	1/4“	30	12,5
25	250	160	184	238	115	68	14	108	50,8	15,7	85	79,2	467,6	467,7	1/4“	30	13
32	250	180	200	238	140	78	18	117,3	63,5	15,7	100	88,9	471,7	471,5	1/4“	30	16
40	250	200	222	238	150	88	18	127	73,2	15,7	110	98,6	477,6	477,6	1/4“	36	16,5
50*	250	230	254	238	165	102	18	152,4	91,9	19,1	125	120,7	508,3	501,4	1/4“	36	22,4
65*	250	290	-	238	185	122	18	-	-	-	145	-	556	-	1/4“	37	33
80*	250	310	-	238	200	138	18	-	-	-	160	-	568	-	1/4“	38	39

* reinforced version

Dimensions in mm

Text and pictures are not binding. We reserve the right, to alter the equipment.