

# Flanged Control Valve 7036

## DN 15 up to DN 80

**Pneumatically operated control valve with integrated positioner for the control of neutral, slightly aggressive and highly aggressive media.**

- Unaffected by lightly contaminated media
- Body completely stainless steel
- Integrated positioner
  - pneumatic or
  - electro-pneumatic
  - digital
- Working pressure up to 40 bar
- For temperatures from -100°C up to +220°C



### Technical Information

Nominal size	DN 15 up to DN 80, PN40
Connections	flange acc. DIN EN 1092-1
	flange acc. ANSI #150
	flange acc. ANSI #300
Nominal pressure	PN 40 / ANSI #150 / ANSI #300
Max. fluid temperature:	
with metal bonnet	-30°C up to +200°C, opt. -100°C up to +220°C
with plastic bonnet	-30°C up to +135°C
with diaphragm actuator	-30°C up to +200°C, opt. -30°C up to +220°C
Ambient temperature	analog positioner: -30°C up to +60°C digital positioner: -10°C up to +75°C
Viscosity of the fluid	maximum 600 mm <sup>2</sup> /s (600cSt, 80°E)
Vacuum	maximum 0,001 bar abs
Working pressure for packing underneath	maximum 12 bar
Body dimensions	L acc. DIN EN 558-92 (old: DIN 3202-F3)

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

### Materials

Body	Stainless steel 1.4408
Bonnet	Brass chrome plated (actuator Ø 80 mm)
	Aluminium corrosion protected (actuator Ø 125 mm)
Diaphragm actuator	Stainless steel 1.4301/1.4305
Actuator springs	Stainless steel 1.4310 (actuator Ø 80 mm, diaphr.act.)
	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.

# Flanged Control Valve 7036

with integrated positioner

## Kvs-Value

DN	linear					equal percentage				
	15	20	25	32	40	15	20	25	32	40
100 %	3,8	8,8	14	20	27	3	6	10	16	25
40 %	1,5	3,5	5,8	8	11	1,2	2,4	4	6	10
25 %	0,93	2,2	3,6	-	-	0,8	1,5	2,6	-	-
15%	-	-	-	-	-	0,46	-	-	-	-
10%	0,4	-	-	-	-	-	-	-	-	-
7,5%	-	-	-	-	-	0,23	-	-	-	-

## Admissible Pressure Difference

digital positioner

DN	Differential pressure	Pilot pressure	Piston Ø	Springs
	bar	bar	mm	Number
15	17	4 bis 6	80	2
20	17	4 bis 6	80	2
25	17	4 bis 6	80	1
32	10	4 bis 6	80	1
32	17	3 bis 6	125	2
40	6	4 bis 6	80	1
40	17	4 bis 6	125	3

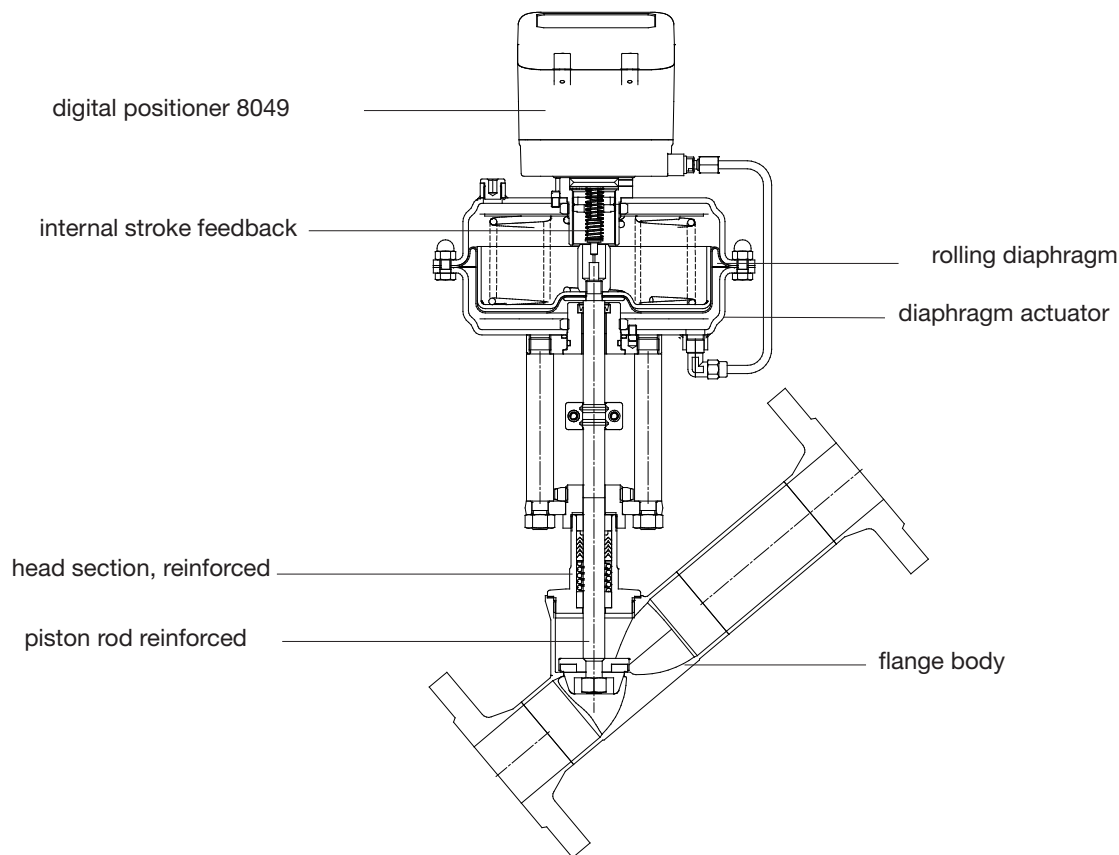
p/p-positioner i/p-positioner

DN	Differential pressure	Pilot pressure	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

diaphragm actuator, direct pressure range

DN	Differential pressure (bar)		Supply air (bar)		Diaphragm area (mm <sup>2</sup> )
	spring range	spring range	spring range	spring range	
	0,2 - 1 bar	0,4 - 2 bar	0,2 - 1 bar	0,4 - 2 bar	
15	17	17	1,2	2,4	250
20	17	17	1,2	2,4	250
25	9	17	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 7036, reinforced design with integrated positioner



## Admissible Pressure Difference

digital positioner

DN	Differential pressure (bar)		Supply pressure range bar	Piston Ø mm	Springs number
	PTFE	PEEK			
50	3	-	4 - 6	80	1
50	11	4	4 - 6	125	3
50	12	5	3 - 6	250	6
50	17	10	4 - 6	250	8 *
50	17	17	4 - 6	250	12
65	5	-	4 - 6	125	3
65	13	8	4 - 6	250	12
80	3	-	4 - 6	125	3
80	9	5	4 - 6	250	12

p/p-positioner i/p-positioner

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

\* spring configuration, standard

## Kvs-Value

DN	linear			equal percentage		
	50	65	80	50	65	80
100%	43	52	69	34	44	59
63%	26	32	-	23	29	-

# Angle Seat Control Valve 7036

## Pressure balanced design with integrated positioner

DN50 up to DN80, PN40

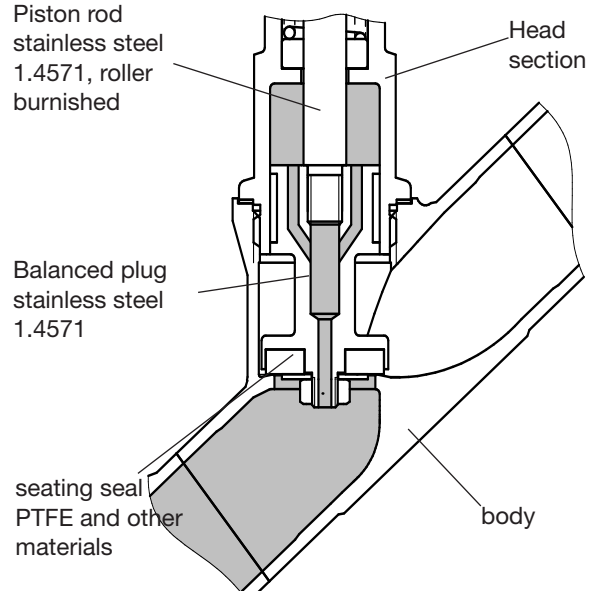
### Admissible Differential Pressures

digital positioner

DN	Differential pressure (PTFE)	Supply pressure range	Piston Ø	Springs
	bar	bar		Number
50	17	4 - 6	125	3
65	17	4 - 6	125	3
80	17	4 - 6	125	3

p/p- and i/p-positioner

DN	Differential pressure (PTFE)	Supply pressure range	Piston Ø	Springs
	bar	bar		number
50	17	4 - 6	125	3
65	17	4 - 6	125	3
80	17	4 - 6	125	3

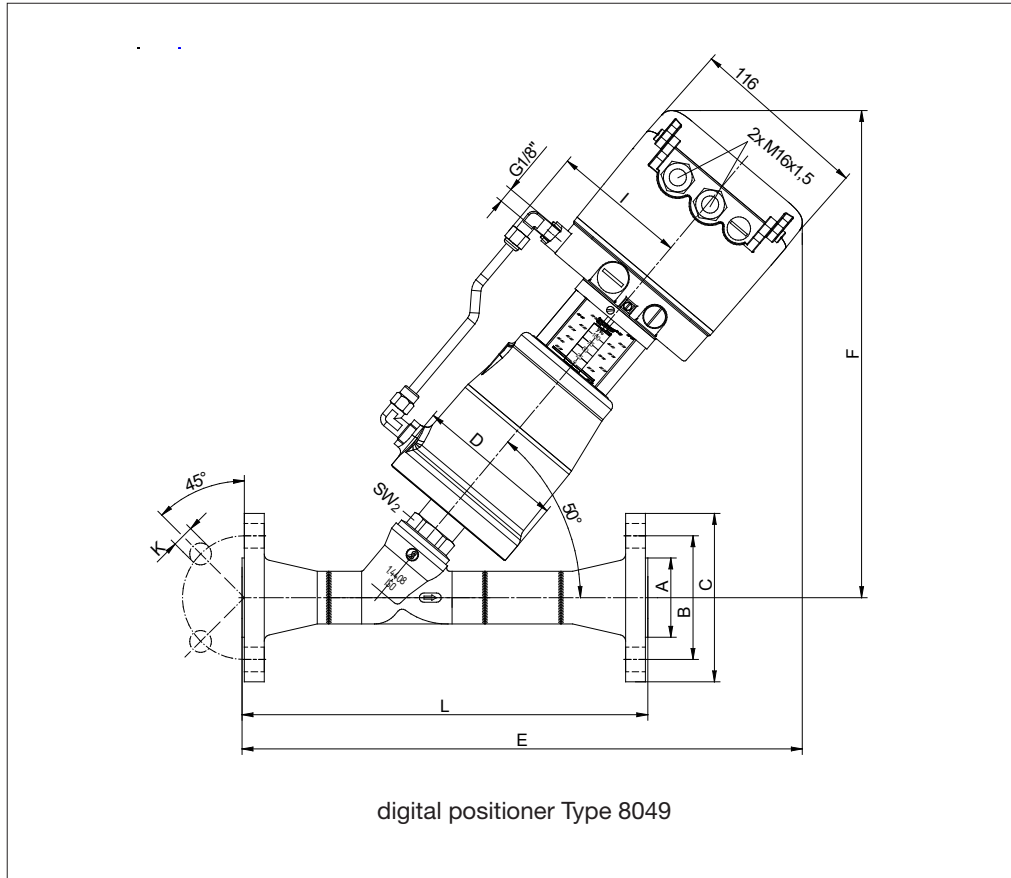




# Flanged Control Valve 7036

with integrated positioner

## Dimensions and Weights



PN40

DN	Actuator	I	A	B	C	D	K	number of borings	L	E	F	SW2	Weight (kg)
15	80	80	45	65	95	98	14	4	230	350	305	30	6
20	80	80	58	75	105	98	14	4	260	355	310	30	6,8
25	80	80	68	85	115	98	14	4	260	360	315	30	7,5
32	80	80	78	100	140	98	18	4	300	375	315	30	8,7
32	125	105	78	100	140	146	18	4	300	405	345	30	11,6
40	80	80	88	110	150	98	18	4	300	380	320	30	9,8
40	125	105	88	110	150	146	18	4	300	410	350	30	12,4

reinforced design:

DN	Actuator	I	A	B	C	D	K	number of borings	L	E	F	SW2	pressure balanced			Weight (kg)
													E	F	SW2	
50	80	80	102	125	165	98	18	4	350	390	342	32	-	-	-	11,8
50	125	105	102	125	165	146	18	4	350	420	372	32	423	381	52	14,4
65	125	105	122	145	185	146	18	8	400	452	377	41	442	396	36	17,4
80	125	105	138	160	200	146	18	8	450	488	372	41	532	416	46	19,6

ANSI150

DN	Actuator	I	A	B	C	D	K	number of borings	L	E	F	SW2	Weight (kg)
15	80	80	35	61	89	98	16	4	230	350	305	30	6,0
20	80	80	43	70	99	98	16	4	260	355	310	30	6,8
25	80	80	51	79	108	98	16	4	260	360	315	30	7,5
32	80	80	64	89	117	98	16	4	300	375	315	30	8,7
32	125	105	64	89	117	146	16	4	300	405	345	30	11,6
40	80	80	73	99	127	98	16	4	300	380	320	30	9,8
40	125	105	73	99	127	146	16	4	300	410	350	30	12,4

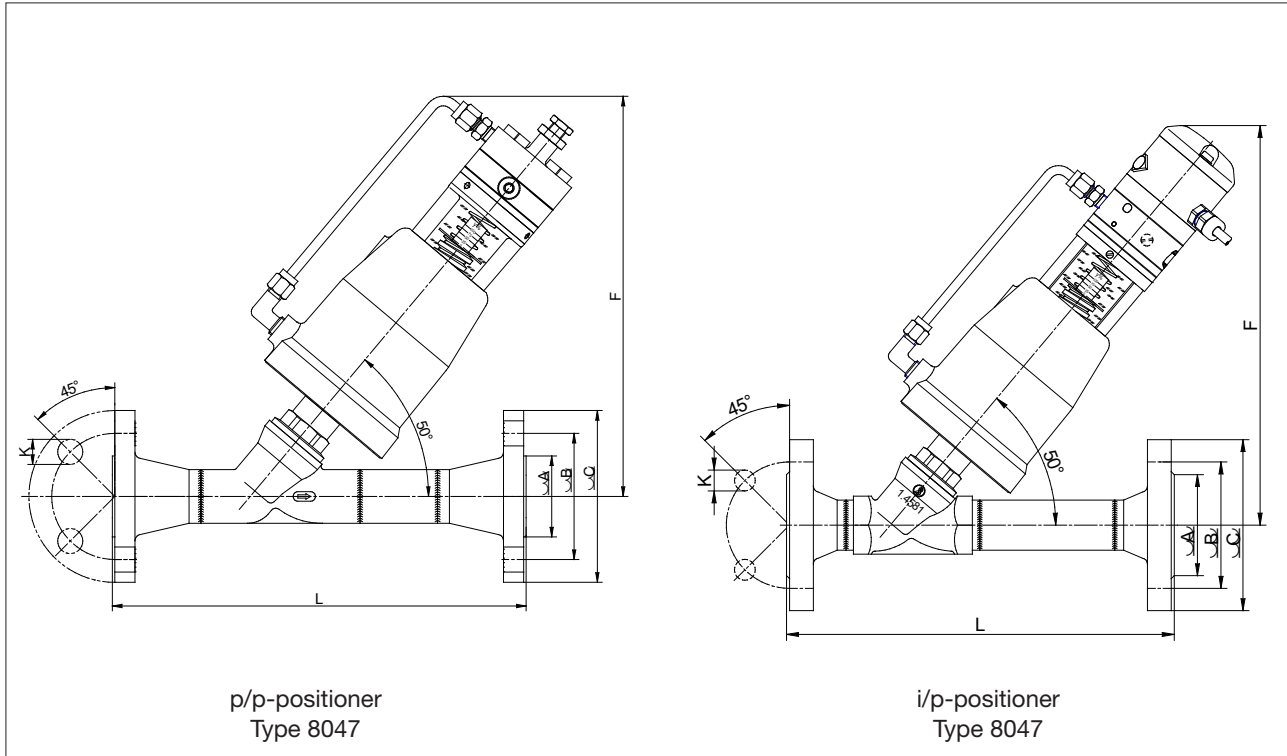
reinforced design:

DN	Actuator	I	A	B	C	D	K	number of borings	L	E	F	SW2	pressure balanced			Weight (kg)
													E	F	SW2	
50	80	80	92	121	152	98	19	4	350	390	342	32	-	-	-	11,8
50	125	105	92	121	152	146	19	4	350	420	372	32	439	381	52	14,4
65	125	105	107	140	178	146	19	4	400	452	377	41	467	396	36	17,4
80	125	105	127	152	191	146	19	4	450	497	372	41	541	416	46	19,6

# Flanged Control Valve 7036

with integrated positioner

## Dimensions and Weights



### PN40

DN	Actuator	A	B	C	D	K	Number of borings	L	F		H stroke	Weight (kg)	
									p/p	i/p		p/p	i/p
15	80	45	65	95	98	14	4	230	245	260	7	5,3	5,6
20	80	58	75	105	98	14	4	260	245	260	12	6,1	6,4
25	80	68	85	115	98	14	4	260	255	270	16	6,8	7,1
32	80	78	100	140	98	18	4	300	270	285	20	8,4	8,6
32	125	78	100	140	146	18	4	300	300	315	20	10,9	11,2
40	80	88	110	150	98	18	4	300	275	290	23	9,1	9,4
40	125	88	110	150	146	18	4	300	305	320	23	11,7	12

reinforced design:

DN	Actuator	A	B	C	D	K	Number of borings	L	F		H stroke	F		Weight (kg)	
									p/p	i/p		p/p	i/p	p/p	i/p
50	80	102	125	165	98	18	4	350	280	295	29	-	-	11,1	11,4
50	125	102	125	165	146	18	4	350	310	325	29	315	345	13,7	14
65	125	122	145	185	146	18	8	400	305	335	29	325	355	16,7	17
80	125	138	160	200	146	18	8	450	295	335	29	350	380	18,9	19,2

### ANSI 150

DN	Actuator	A	B	C	D	K	Number of borings	L	F		H stroke	Weight (kg)	
									p/p	i/p		p/p	i/p
15	80	34,9	60,3	90	98	15,75	4	230	245	260	7	5,3	5,6
20	80	42,9	69,9	100	98	15,75	4	260	245	260	12	6,1	6,4
25	80	50,8	79,4	110	98	15,75	4	260	255	270	16	6,8	7,1
32	80	63,5	88,9	115	98	15,75	4	300	270	285	20	8,4	8,6
32	125	63,5	88,9	115	146	15,75	4	300	300	315	20	10,9	11,2
40	80	73	98,6	125	98	15,75	4	300	275	290	23	9,1	9,4
40	125	73	98,6	125	146	15,75	4	300	305	320	23	11,7	12

reinforced design:

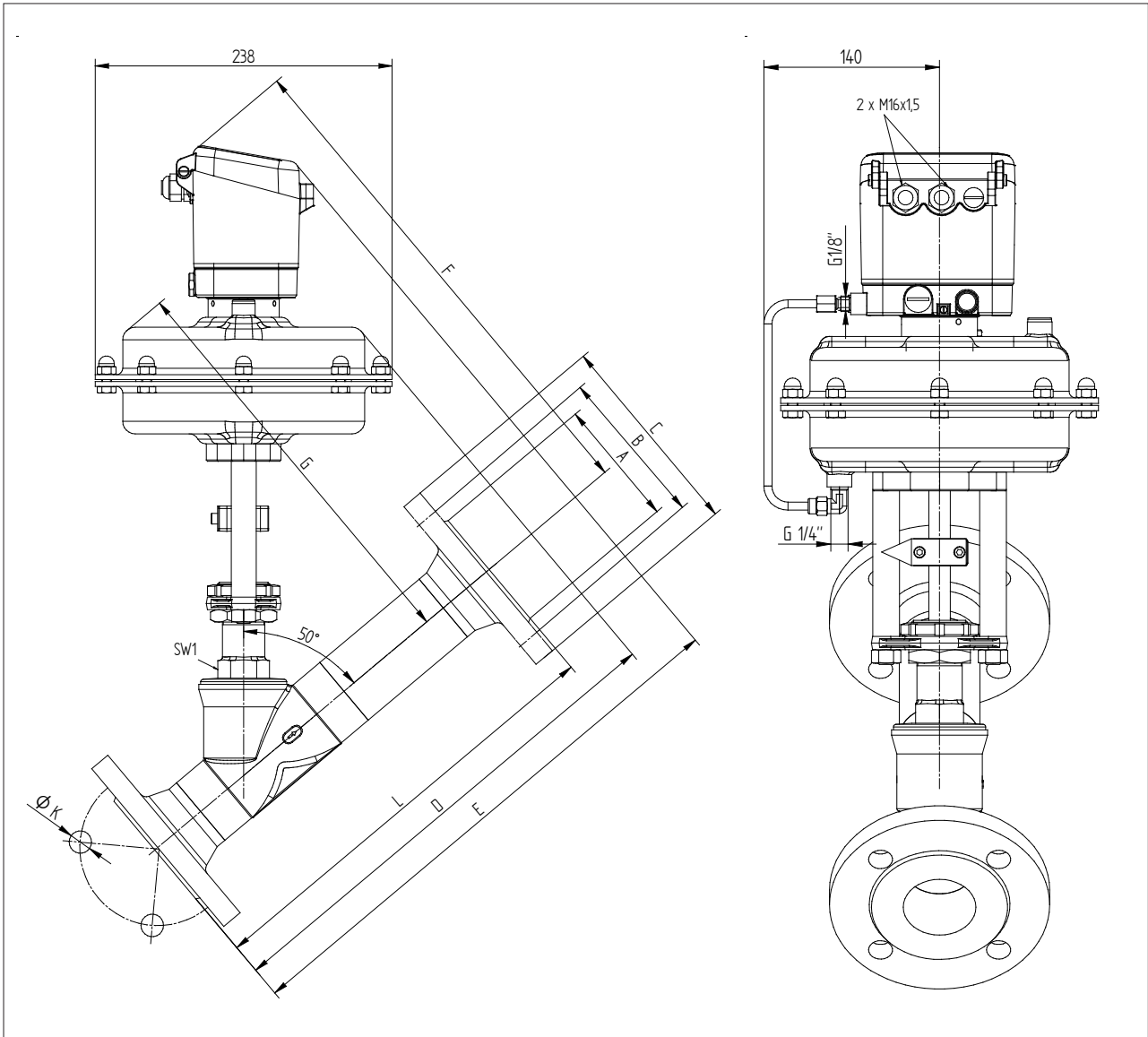
DN	Actuator	A	B	C	D	K	Number of borings	L	F		H stroke	F		Weight (kg)	
									p/p	i/p		p/p	i/p	p/p	i/p
50	80	92,1	120,7	150	98	19,05	4	350	280	295	29	-	-	11,1	11,4
50	125	92,1	120,7	150	146	19,05	4	350	310	325	29	315	345	13,7	14
65	125	104,8	139,7	180	146	19,05	4	400	305	335	29	325	355	16,7	17
80	125	127	152,4	190	146	19,05	4	450	295	335	29	350	380	18,9	19,2

Dimensions in mm

# Flanged Control Valve 7036

reinforced design with integrated positioner

## Dimensions and Weights



diaphragm actuator with digital positioner 8049

PN40													
DN	A	B	C	D	K	number of borings	L	D	G	E	F	SW1	Weight (kg)
15	45	65	95	98	14	4	230	330	280	385	350	30	18,7
20	58	75	105	98	14	4	260	340	290	395	360	30	18,8
25	68	85	115	98	14	4	260	345	300	400	370	30	19
32	78	100	140	146	18	4	300	360	310	415	385	30	19,1
40	88	110	150	146	18	4	300	370	320	425	395	30	19,3
50	102	125	165	146	18	4	350	400	335	445	385	36	19,6
65	122	145	185	146	18	8	400	420	350	465	400	36	20
80	138	160	200	146	18	8	450	470	347	530	415	41	23
ANSI150													
DN	A	B	C	D	K	number of borings	L	D	G	E	F	SW1	Weight (kg)
15	35	61	89	98	16	4	230	330	280	385	350	30	18,7
20	43	70	99	98	16	4	260	340	290	395	360	30	18,8
25	51	79	108	98	16	4	260	345	300	400	370	30	19,0
32	64	89	117	146	16	4	300	360	310	415	385	30	19,1
40	73	99	127	146	16	4	300	370	320	425	395	30	19,3
50	92	121	152	146	19	4	350	400	335	450	385	36	19,6
65	107	140	178	146	19	4	400	420	350	490	400	36	20
80	127	152	191	146	19	4	450	470	347	535	415	41	23

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