

# Flanged Control Valve

# 7036

SCHUBERT & SALZER  
**CONTROL  
SYSTEMS**

## DN 15 up to DN 50

**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



### 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 %
Rangeability	30 :1	25 : 1	25 : 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.

# Flanged Control Valve 7036

with integrated positioner



## Digital Positioner Type 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

## Kvs-Value

DN	Linear						Equal percentage					
	15	20	25	32	40	50	15	20	25	32	40	50
100 %	3,8	8,8	14	20	27	41	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	16	4 - 6	80	2
20	16	4 - 6	80	2
25	16	4 - 6	80	1
32	10	4 - 6	80	1
32	16	3 - 6	125	2
40	6	4 - 6	80	1
40	16	4 - 6	125	3
50	3	4 - 6	80	1
50	9	4 - 6	125	3

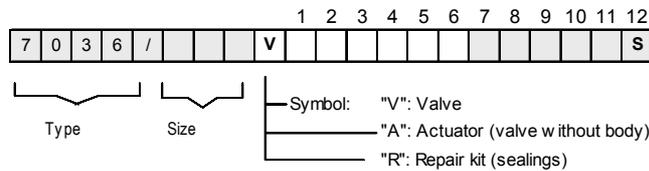
### p/p-positioner i/p-positioner

DN	Differential pressure	Pilot pressure	Piston Ø	Springs
	bar	bar	mm	Number
15	16	4 - 6	80	2
20	16	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
50	2	4 - 6	80	1
50	6	4 - 6	125	3

# Flanged Control Valve 7036

## 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 materials		4. Seat materials		5. Positioner		6. Actuator		7. Springs	
2	Flanged control valve Type 7036	9	Angle bodied flange valve DIN 3203 F3 dto. ANSI#150 C	2	Stainless steel 1.4408	0	PTFE (Teflon)	6	p/p positioner Type 8047	1	Piston 80 mm	-	Standard spring configuration
								7	i/p positioner Type 8047	2	Piston 125 mm	1	spring to open (only with dig. positioner)
								8	i/p positioner with plug connec. M12x1 Type 8047				
								9	as above, but for hazardous location use II 2 G EEx ib IIC T6 plug conn. M12x1 Type 8047				
								A	dig. positioner with process controller Type 8048 IPC				
								C	dig. positioner, Type 8049, 4 wire				
								D	dig. Positioner Type 8048, IP65 with pos. Indicator				
								R	dig. positioner, Type 8049, 2 wire				
								T	dig. positioner Type 8049, AS-i version				

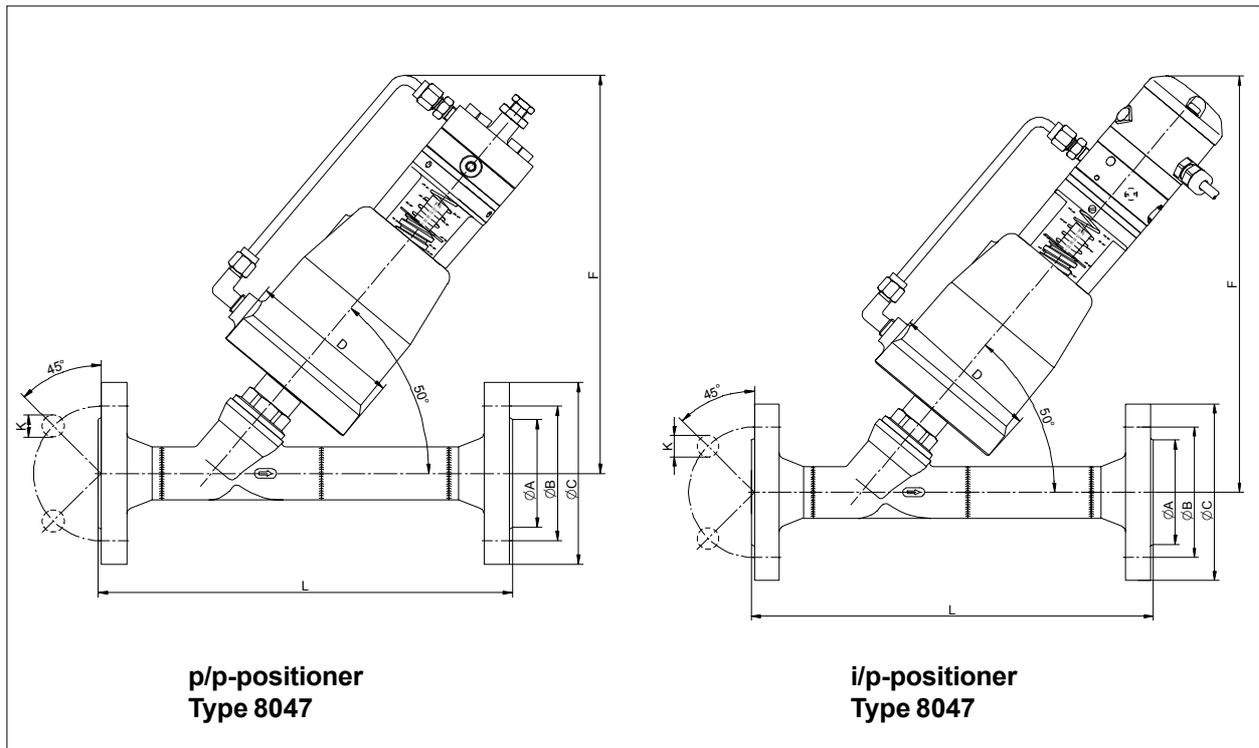
8. Characteristic		9. Packing		10. Kvs-value		11. Accessories		12. Futher special versions		13. Seal		14. Position indicator	
-	Linear	-	Standard	-	Full Kvs-value	-	without pilot-valve DN2	S	To state if some stations are quoted!	-	Standard	0	with position indicator (dig. positioner standard)
1	Equal percentage	2	Packing underneath	1	Red. to 40%	6	230V AC						
				2	Red. to 25%	7	pilot-valve DN2 24V DC						
				3	Red. to 15%								
				4	Red. to 7,5%								
				5	Red. to 22,5%								
				6	Red. to 10%								

**Ordering Example:** 7036/020V292061-1---S-0  
 Flanged control valve with pneumatic positioner, nominal size DN20, stainless steel body PTFE sealing, 80mm piston, equal percentage characteristic 100 %, Kvs--value = 6, with position indicator

# Flanged Control Valve 7036

with integrated positioner

## Dimensions and Weights



DN	Actuator	A	B	C	D	F		H stroke	K	L*	N	Weight (kg)	
						p/p	i/p					p/p	i/p
15	80	45	65	95	98	245	260	7	14	230	4	5,3	5,6
20	80	58	75	105	98	245	260	12	14	260	4	6,1	6,4
25	80	68	85	115	98	255	270	16	14	260	4	6,8	7,1
32	80	78	100	140	98	270	285	20	18	300	4	8,4	8,6
32	125	78	100	140	146	300	315	20	18	300	4	10,9	11,2
40	80	88	110	150	98	275	290	23	18	300	4	9,1	9,4
40	125	88	110	150	146	305	320	23	18	300	4	11,7	12,0
50	80	102	125	165	98	280	295	29	18	350	4	11,1	11,4
50	125	102	125	165	146	310	325	29	18	350	4	13,7	14,0

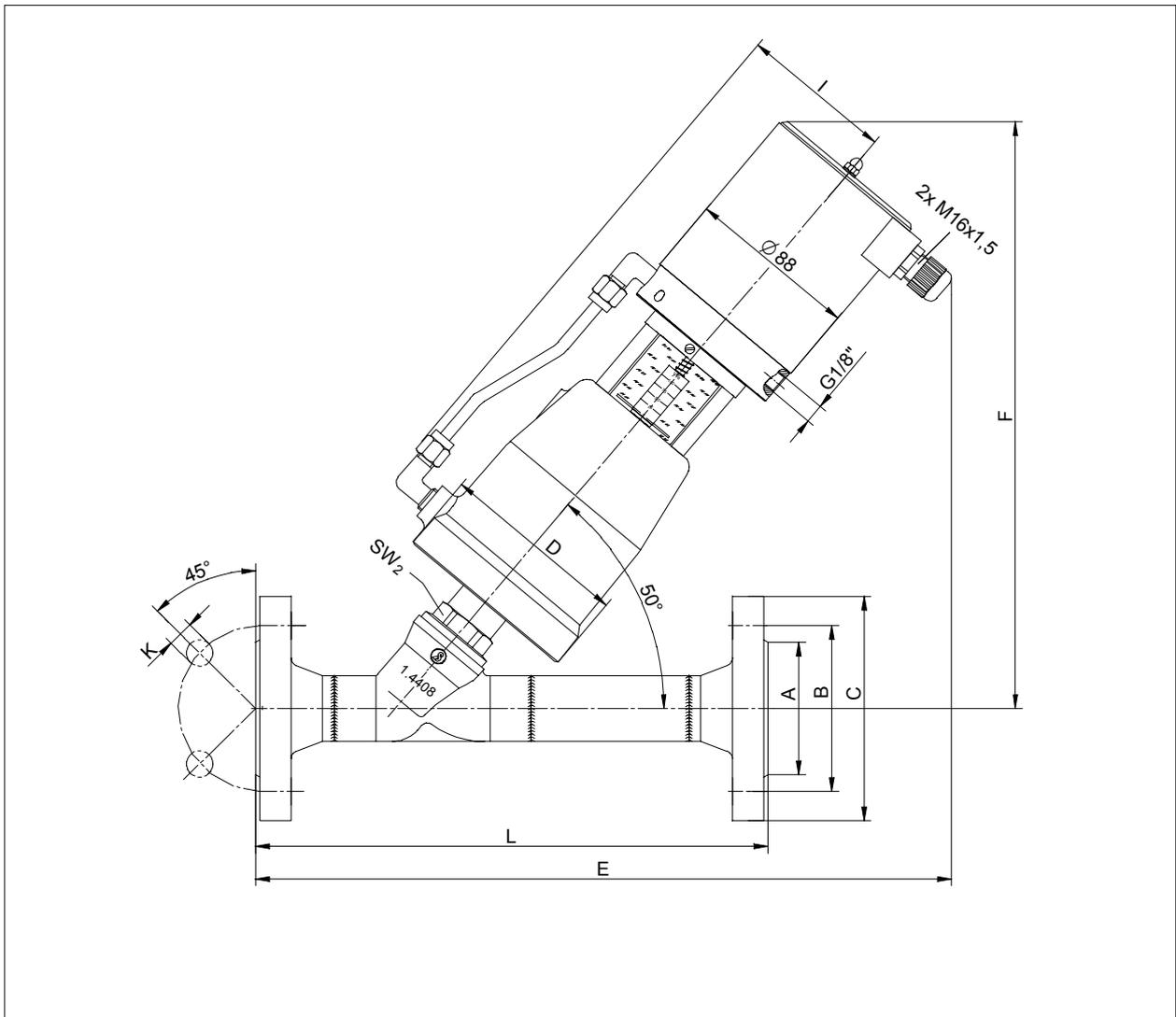
\*body dimensions L acc. DIN 3202 T1 F3

Dimensions in mm

# Flanged Control Valve 7036

with integrated positioner, Type 8048

## Dimensions and Weights



DN	Actuator	A	B	C	D	E	F	I	SW2	K	L*	N	Weight (kg) Type 8048
15	80	45	65	95	98	340	290	80	30	14	230	4	5,7
20	80	58	75	105	98	345	295	80	30	14	260	4	6,5
25	80	68	85	115	98	355	300	80	30	14	260	4	7,2
32	80	78	100	140	98	375	315	80	30	18	300	4	8,7
32	125	78	100	140	146	405	345	105	30	18	300	4	11,3
40	80	88	110	150	98	380	320	80	30	18	300	4	9,5
40	125	88	110	150	146	410	350	105	30	18	300	4	12,1
50	80	102	125	165	98	400	330	80	32	18	350	4	11,5
50	125	102	125	165	146	430	360	105	32	18	350	4	14,1

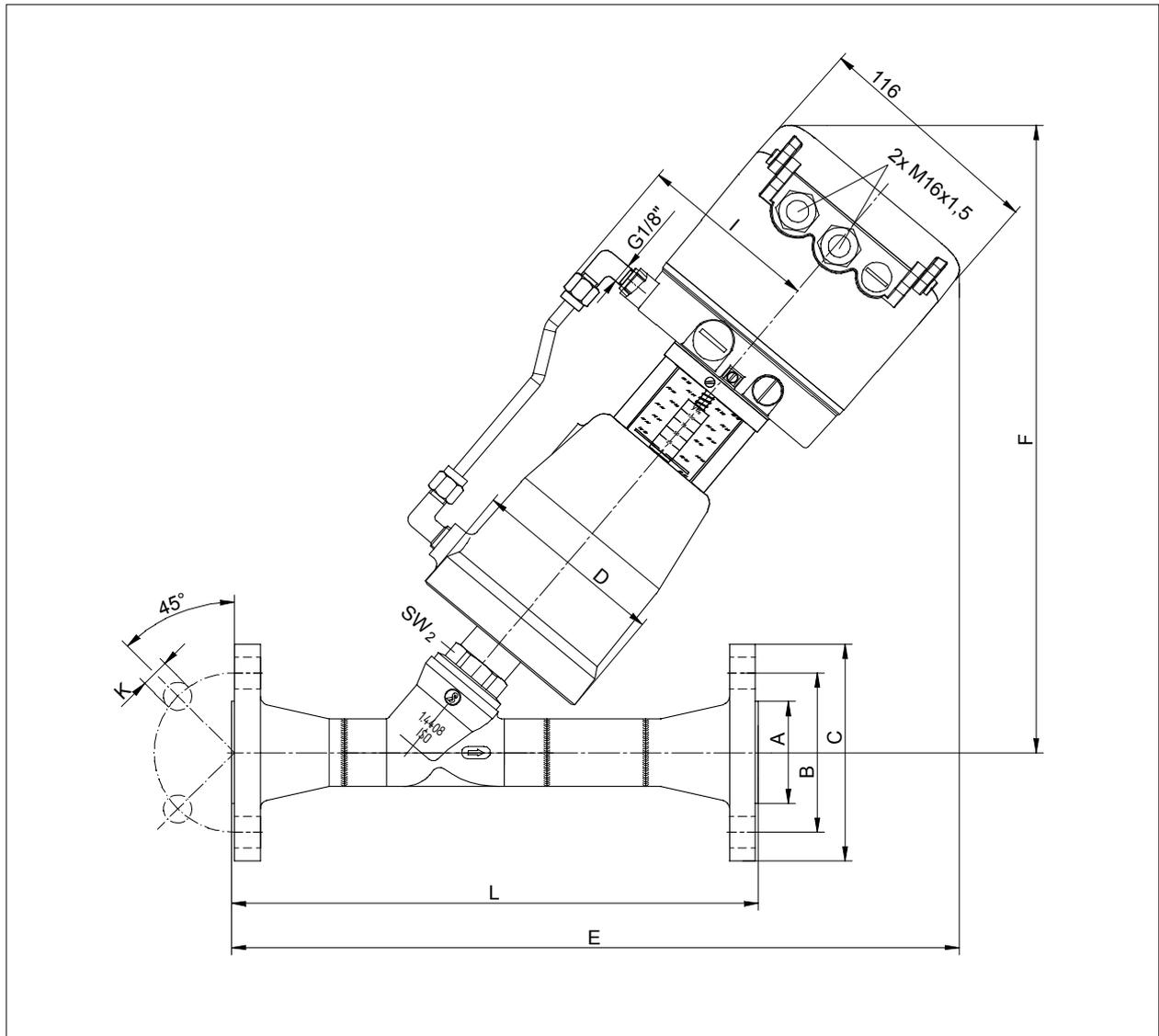
\*body dimension L acc. DIN 3202 T1 F3

Dimensions in mm

# Flanged Control Valve 7036

with integrated positioner, Type 8049

## Dimensions and Weights



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

DN	Actuator	A	B	C	D	E	F	I	SW2	K	L*	N	Weight (kg) Type 8049
15	80	45	65	95	98	330	302	80	30	14	230	4	6,0
20	80	58	75	105	98	335	307	80	30	14	260	4	6,8
25	80	68	85	115	98	345	312	80	30	14	260	4	7,5
32	80	78	100	140	98	365	327	80	30	18	300	4	8,7
32	125	78	100	140	146	395	357	105	30	18	300	4	11,6
40	80	88	110	150	98	370	332	80	30	18	300	4	9,8
40	125	88	110	150	146	400	362	105	30	18	300	4	12,4
50	80	102	125	165	98	390	342	80	32	18	350	4	11,8
50	125	102	125	165	146	420	372	105	32	18	350	4	14,4

\*body dimension L acc. DIN3202 T1 F3

Dimensions in mm