

## DN 15 up to DN 50

### New generation of pinch control valves with revised inner tube for demanding applications or food fluids

- Compact design with rotatable actuator
- Unaffected by contaminated, granulated, viscous, doughy and aggressive media
- Usable for sanitary and aseptic applications because of hygienic sealing
- All components in contact with the fluid made of 1.4435
- Integrated positioner
  - pneumatic
  - electropneumatic
  - digital



### Technical Information

Nominal Sizes	DN 15 up to DN 50	
Connections	Pipe threats acc. ISO 228-1	G 1/2" up to G 2",
	NPT-threads	
	Inner sticking socket PVC	
	Welding ends acc. to DIN or ISO Tri-Clamp-connector (inch)	
Body material	Stainless steel 1.4408, no contact with the fluid	
Material in contact with the fluid	Stainless steel 1.4435 (except cement socket PVC)	
Nominal pressure	PN 6	
Operating pressure	0 - 6 bar	
Media	Liquids, gases, suspensions, granulate or limestone	
Fluid Temperature	Tube material NBR (FDA):	-20°C up to +80°C (short duration, steam 130°C*)
	Tube material FKM:	-10°C up to +130°C
	Tube material EPDM (FDA):	-30°C up to +95°C (short duration, steam 130°C*)
Ambient temperature	digital positioner -10°C up to +75°C analog positioner -15°C up to +60°C	

\*short-duration rise of temperature only when the valve is fully open

### Positioner

For technical data of the positioner please see the corresponding datasheets.

## Admissible Differential Pressures

DN	Tube material	Max. working pressure	Pilot pressure	Actuator size	Springs
		(bar)	(bar)	(mm)	
15 / 20	EPDM	6	4 - 6	80	1
	NBR				
	FKM				
	SBR				
25 / 32	EPDM	6	5 - 6	80	2
	NBR				
	FKM				
	SBR				
40 / 50	NBR	2	3 - 6	80	2
	FKM				
	EPDM	4		125	
	NBR				
FKM					

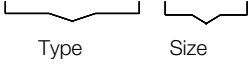
minimum working pressure 0,5 bar

## Ordering Number System

1 2 3 4 5 6 7 8 9 10 11 12

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


 Symbol: "V": Valve  
 "A": Actuator (valve without body)  
 "R": Repair kit (sealings)

1.	Design	2.	Connection	3.	Connecting parts	4.	Tube material	5.	Positioner	6.	Actuator	7.	Springs
8	Pinch control valve Type 7079	0	Pipe thread acc. DIN 2999 / ISO 228	-	no specifications	-	without FKM (Viton)	6	p/p positioner Type 8047	1	Piston Ø80 mm	-	without significance
		3	Inner sticking socket	2	Stainless steel	1	EPDM	7	i/p positioner Type 8047	6	Piston Ø80 mm (NPT)		
		5	NPT-thread with welding ends acc. DIN	6	PVC	2	NBR	8	i/p-positioner with plug M12x1	2	Piston Ø125 (NPT)		
		D	with welding ends acc. ISO			3	SBR	9	i/p-positioner with plug M12x1, II 2G EEx ib IIC T6	9	Piston Ø125 (NPT)		
		I	Tri-Clamp connection (inch)			4		C	digital positioner, Type 8049, 4 wire	M	Piston Ø80 mm with plastic bonnet		
		Z						R	digital positioner, Type 8049, 2 wire	S	Piston Ø80 mm with plastic bonnet (NPT)		
								W	digital positioner Type 8049, 2 wire, e-ex-version				
								K	digital positioner type 8049 ExPro-FM with base plate in stainless steel				
								Y	digital positioner type 8049 ExPro-FM with base plate in stainless steel				
8.	Characteristic	9.		10.		11.	Accessories	12.	Special versions	13.	Seal	14.	Position indicator
	mod. linear	-	without significance	-	without significance	6	Pilot valve DN2, 230 VAC	S	Quote for special versions	-	Standard	-	without position indicator
						7	Pilot valve DN2, 24 VDC					0	with position indicator

Ordering example: 7079/025V8D2771-----S-0  
 Pinch control valve type 7079, DN 25, Weldings ends acc. DIN, Connecting parts stainless steel, tube material EPDM (food grade), electropneumatic positioner, actuator 80 mm, with position indicator

## Selection of tube quality

### Permissible media temperature

	EPDM	NBR	Viton	SBR
T max °C	95	80	130	80
T min °C	-30	-20	-10	-30

### Resistance\*

	EPDM	NBR	Viton	SBR
Wastewater	A	A	A	A
Ammonia (liquid)	A	B	C	B
Ammonia (gaseous)	A	B	C	B
Malic acid	B	A	A	B
Brake fluid	A	C	C	B
Benzine	C	B	A	B
Beer	A	A	A	C
Bleach liquor	A	C	A	C
Butter	B	A	A	C
Buttermilk	B	C	A	C
Chlorine	B	C	A	C
Saturated steam	A	C	B	C
Diesel	C	A	A	C
Peanut oil	C	A	A	C
Vinegar	A	B	B	C
Greases (from animals/plants)	C	A	A	C
Fatty acids	C	B	A	C
Fish oil	B	A	A	C
Fruit juices	A	A	A	C
Milk of lime	B	B	B	A
Cocoa butter	C	C	A	C
Carbonic acid	A	A	A	C
Coconut oil	C	A	A	C
Air with solid particles	B	B	C	A
Corn oil	C	A	A	C
Margarine	C	A	A	C
Caustic soda	A	B	B	C
Nut oil	C	A	A	C
Rapeseed oil	A	B	A	C
Water with solid particles	B	B	C	A
Detergent	A	A	A	C
Citric acid	A	A	A	C

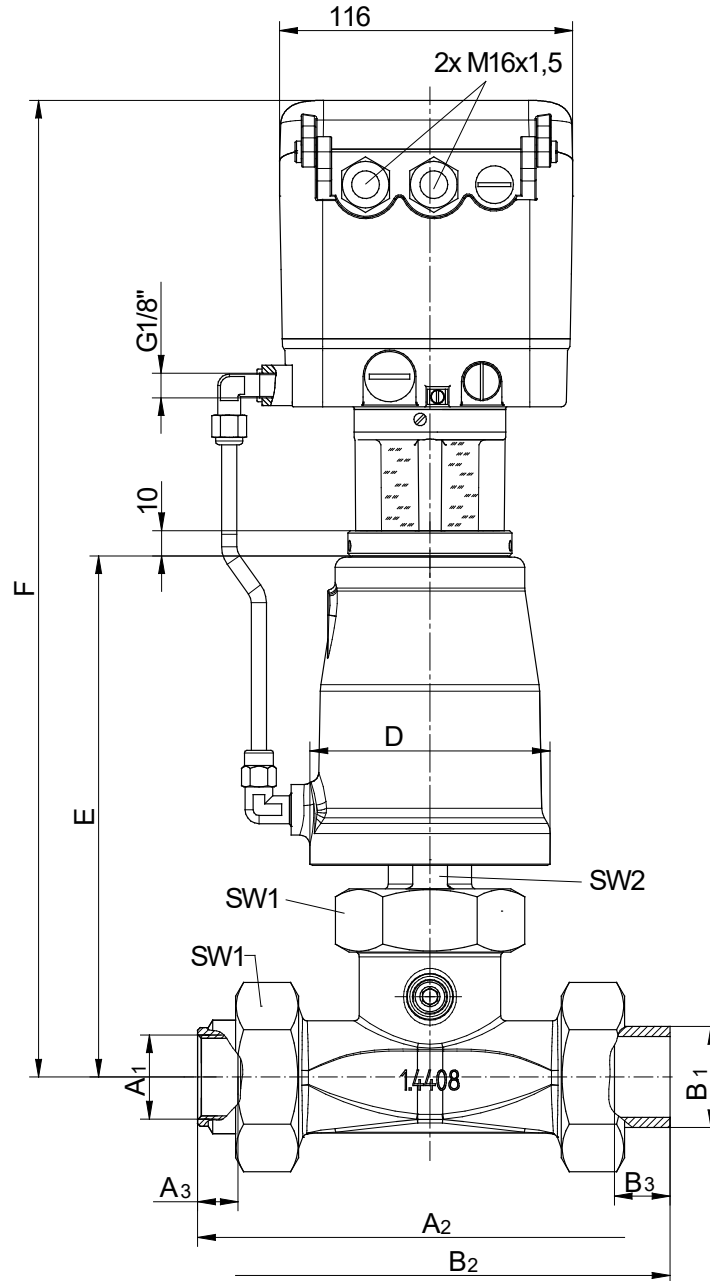
\*In the case of information on resistance, this is only a recommendation, errors and omissions excepted (no liability accepted)

A: suitable / resistant      B: conditionally suitable      C: not suitable

### Approvals

	EPDM	NBR	Viton	SBR
FDA	x	x		
BfR	x	x		
EG 1935/2004/CE		x		
EN ISO 3861				x

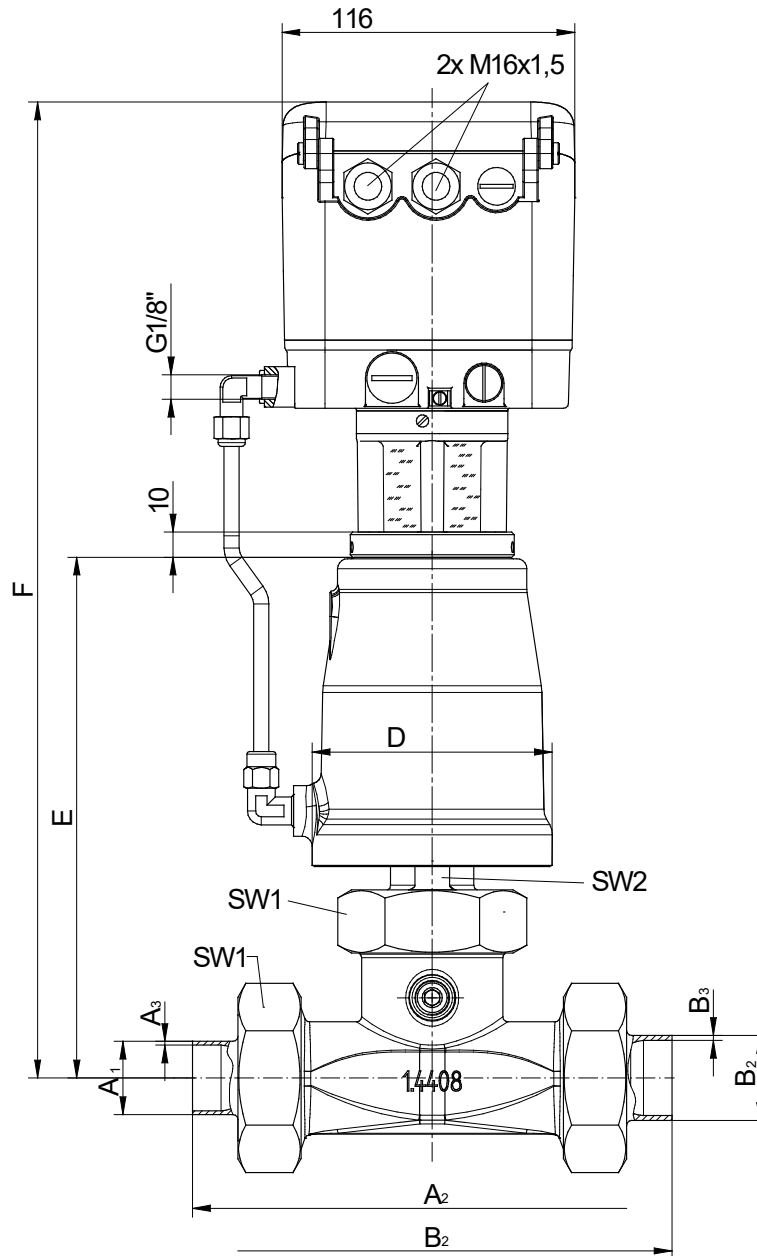
## Dimensions and Weights with threaded connection or inner sticking sockets



DN	Piston	Whitworth pipe thread			NPT-thread			Inner sticking socket PVC			D	E	F	G	I	SW1	SW2	Stroke	Kvs-Value	Weight
		A1	A2	A3	A1	A2	A3	B1	B2	B3										
15	80	Rp 1/2"	130	13	NPT 1/2"	132	14,5	20	130	16	98	183	359	G1/4"	90	46	27	16	12,2	5,1
20	80	Rp 3/4"	132	13	NPT 3/4"	132	15	25	136	19	98	183	359	G1/4"	90	46	27	16	12,2	5,4
25	80	Rp 1"	184	16	NPT 1"	182	17,9	32	190	22	98	215	391	G1/4"	90	65	30	22	13,5	6,4
32	80	Rp 1 1/4"	190	16	NPT 1 1/4"	194	19	40	200	26	98	215	391	G1/4"	90	65	30	22	13,5	6,4
40	80	Rp 1 1/2"	246	20	NPT 1 1/2"	246	18,4	50	256	31	98	240	416	G1/4"	90	88	30	25	70,5	9,3
40	125	Rp 1 1/2"	246	20	NPT 1 1/2"	246	18,4	50	256	31	146	263	440	G1/4"	105	88	30	25	70,5	11,4
50	80	Rp 2"	246	22	NPT 2"	246	18,8	63	272	38	98	240	416	G1/4"	90	88	30	25	70,5	9,6
50	125	Rp 2"	246	22	NPT 2"	246	18,8	63	272	38	146	263	440	G1/4"	105	88	30	25	70,5	11,7

Dimensions in mm

## Dimensions and Weights with welding ends



DN	Piston	Welding ends acc. to DIN			Welding ends acc. to ISO			D	E	F	G	I	SW1	SW2	Stroke	Kvs-value	Weight [kg]
		A1	A2	A3	B1	B2	B3										
15	80	19	130	1,5	21,3	130	1,6	98	183	359	G1/4"	90	46	27	16	12,2	5,1
20	80	23	130	1,5	26,9	130	1,6	98	183	359	G1/4"	90	46	27	16		5,4
25	80	29	190	1,5	33,7	190	2	98	215	391	G1/4"	90	65	30	22	13,5	6,4
32	80	32	190	1,5	42,4	190	2	98	215	391	G1/4"	90	65	30	22		6,4
40	80	41	250	1,5	48,3	250	2	98	240	416	G1/4"	90	88	30	25	70,5	9,3
40	125	41	250	1,5	48,3	250	2	146	263	440	G1/4"	105	88	30	25		11,4
50	80	53	250	1,5	60,3	250	2	98	240	416	G1/4"	90	88	30	25		9,6
50	125	53	250	1,5	60,3	250	2	146	263	440	G1/4"	105	88	30	25		11,7

Dimensions in mm

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