

# Pinch Control Valve 7079

## with integrated positioner

### 1/2" up to 2"



#### 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 316L
- Integrated positioner
  - pneumatic
  - electropneumatic
  - digital



#### Technical Information

Nominal Sizes	1/2" up to 2"	
Connections	Pipe threats acc. ISO 228-1	G 1/2" up to G 2",
	NPT-treats	
	Inner sticking socket PVC	
	Welding ends acc. to DIN or ISO	
	Tri-Clamp-connector (inch)	
Body material	Stainless steel CF8M, no contact with the fluid	
Material in contact with the fluid	Stainless steel 316L (except cement socket PVC)	
Operating pressure	0 - 87 psi	
Media	Liquids, gases, suspensions, granulate or limestone	
Fluid Temperature	Tube material NBR (FDA):	14°F up to 176°F (short duration, steam 266°F*)
	Tube material FKM:	14°F up to 266°F
	Tube material EPDM (FDA):	14°F up to 203°F (short duration, steam 266°F*)
Ambient temperature	digital positioner +14°F up to +167°F analog positioner +5°F up to +140°F	

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

#### Positioner

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

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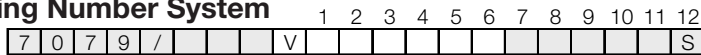
with integrated positioner

## Admissible Pressures

Size	Tube material	Max. working pressure	Pilot pressure	Actuator size	Springs
		(psi)	(psi)	inch	
1/2" - 3/4"	EPDM	87	58 - 87	3"	1
	NBR				
	FKM				
	SBR				
1" - 1 1/4"	EPDM	87	73 - 87	3"	2
	NBR				
	FKM				
	SBR				
1 1/2" - 2"	NBR	29	73 - 87	3"	2
	FKM	0			
	EPDM	29	44 - 87	5"	2
	NBR	58			
FKM	0				

minimum working pressure 8 psi

## Ordering Number System



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.	Conne- cting 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 3"	-	without significance
		2	Inner sticking socket	2	Stainless steel	1	EPDM	7	i/p positioner Type 8047	6	Piston 3"(NPT)		
		3	NPT-thread with welding ends acc. DIN	6	PVC	2	NBR	8	i/p-positioner with plug M12x1	2	Piston 5"		
		5	with welding ends acc. ISO			3	SBR	9	i/p-positioner with plug M12x1, II 2G EEx ib IIC T6	9	Piston 5"(NPT)		
		D	Tri-Clamp connection (inch)			4		C	digital positioner, Type 8049, 4 wire	M	Piston 3" with plastic bonnet		
		I						R	digital positioner, Type 8049, 2 wire	S	Piston 3" with plastic bonnet (NPT)		
		Z						W	digital positioner Type 8049, 2 wire, 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.	Characte- ristic	9.		10.		11.	Accessories	12.	Special versions	13.	Seal	14.	Position indi- cator
-	mod. linear	-	without signifi- cance	-	without signifi- cance	6	Pilot valve DN2, 230 VAC	S	Quote for special versions	-	Standard	-	without posi- tion indicator
						7	Pilot valve DN2, 24 VDC					0	with position indicator

Ordering Example: 7079/025V8522C6

Pinch control valve type 7079, nominal size 1", NPT-thread, connecting parts stainless steel, tube material EPDM, digital positioner Type 8049 4 wire, actuator 3" (NPT)

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## Selection of tube quality

### Permissible media temperature

	EPDM	NBR	Viton	SBR
T max °F	203	176	266	176
T min °F	-22	-4	14	-22

### 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

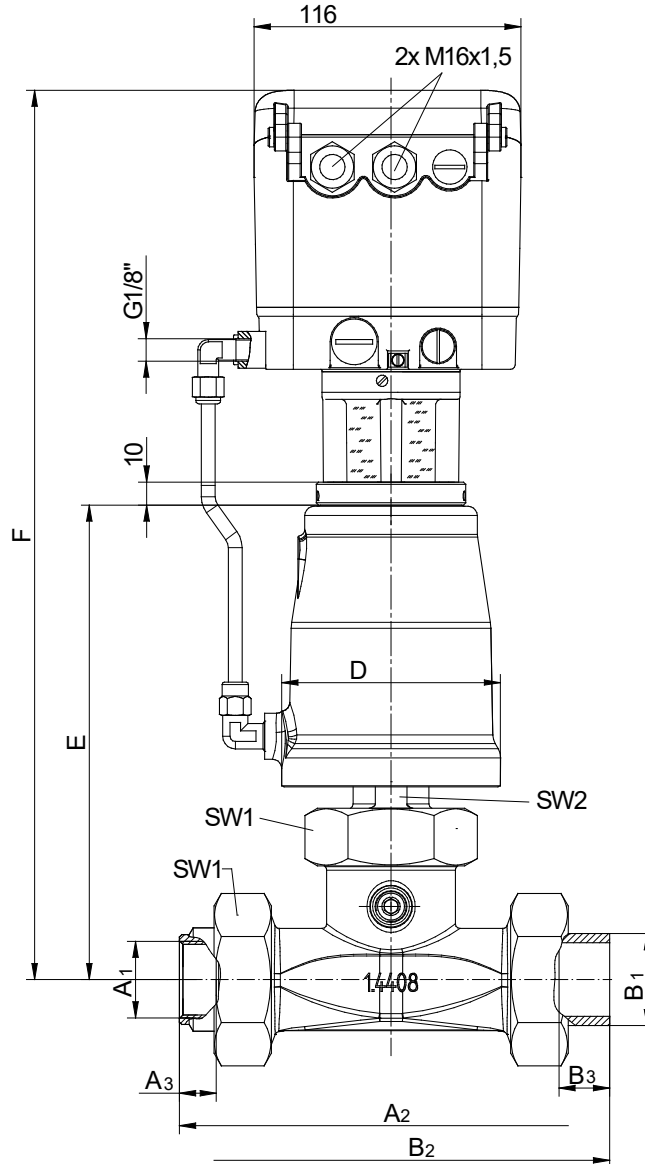
	EPDM	NBR	Viton	SBR
FDA	x	x		
BfR	x	x		
EG 1935/2004/CE		x		
EN ISO 3861				x

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



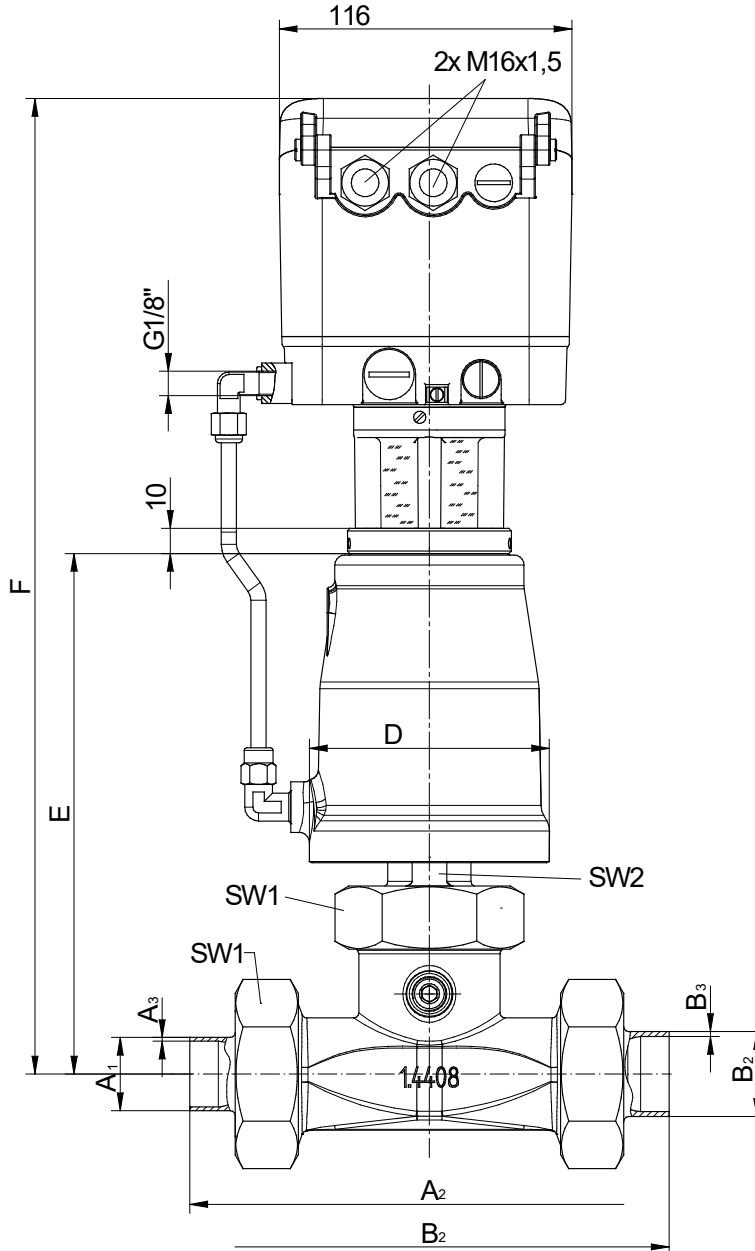
DN	Piston	Whitworth pipe thread			NPT-thread			Cement socket PVC			D	E	F	G	I	SW1	SW2	Stroke	Cvs-Value	Weight lbs
		A1	A2	A3	A1	A2	A3	B1	B2	B3										
1/2"	3"	Rp 1/2"	5.1	0.5	NPT 1/2"	5.2	0.6	0.8	5.1	0.6	3.9	7.2	14.1	G1/4"	3.5	1.8	1.1	0.6	14.1	11.2
3/4"	3"	Rp 3/4"	5.2	0.5	NPT 3/4"	5.2	0.6	1	5.4	0.7	3.9	7.2	14.1	G1/4"	3.5	1.8	1.1	0.6	14.1	11.9
1"	3"	Rp 1"	7.2	0.6	NPT 1"	7.2	0.7	1.3	7.5	0.9	3.9	8.5	15.4	G1/4"	3.5	2.6	1.2	0.9	15.6	14.1
1 1/4"	3"	Rp 1 1/4"	7.5	0.6	NPT 1 1/4"	7.6	0.7	1.6	7.9	1	3.9	8.5	15.4	G1/4"	3.5	2.6	1.2	0.9	15.6	14.1
1 1/2"	3"	Rp 1 1/2"	9.7	0.8	NPT 1 1/2"	9.7	0.7	2	10.1	1.2	3.9	9.4	16.4	G1/4"	3.5	3.5	1.2	1	81.5	20.5
1 1/2"	5"	Rp 1 1/2"	9.7	0.8	NPT 1 1/2"	9.7	0.7	2	10.1	1.2	5.7	10.4	17.3	G1/4"	4.1	3.5	1.2	1	81.5	25.1
2"	3"	Rp 2"	9.7	0.9	NPT 2"	9.7	0.7	2.5	10.7	1.5	3.9	9.4	16.4	G1/4"	3.5	3.5	1.2	1	81.5	21.2
2"	5"	Rp 2"	9.7	0.9	NPT 2"	9.7	0.7	2.5	10.7	1.5	5.7	10.4	17.3	G1/4"	4.1	3.5	1.2	1	81.5	25.8

Dimensions in inch

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## 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	Cvs-value	Weight [lbs]
		A1	A2	A3	A1	A2	A3										
1/2"	3"	0.7	5.1	0.1	0.8	5.1	0.1	3.9	7.2	14.1	G1/4"	3.5	1.8	1.1	0.6	14.1	11.2
3/4"	3"	0.9	5.1	0.1	1.1	5.1	0.1	3.9	7.2	14.1	G1/4"	3.5	1.8	1.1	0.6		11.9
1"	3"	1.1	7.5	0.1	1.3	7.5	0.1	3.9	8.5	15.4	G1/4"	3.5	2.6	1.2	0.9		15.6
1 1/4"	3"	1.3	7.5	0.1	1.7	7.5	0.1	3.9	8.5	15.4	G1/4"	3.5	2.6	1.2	0.9	14.1	
1 1/2"	3"	1.6	9.8	0.1	1.9	9.8	0.1	3.9	9.4	16.4	G1/4"	3.5	3.5	1.2	1	81.5	20.5
1 1/2"	5"	1.6	9.8	0.1	1.9	9.8	0.1	5.7	10.4	17.3	G1/4"	4.1	3.5	1.2	1		25.1
2"	3"	2.1	9.8	0.1	2.4	9.8	0.1	3.9	9.4	16.4	G1/4"	3.5	3.5	1.2	1		21.2
2"	5"	2.1	9.8	0.1	2.4	9.8	0.1	5.7	10.4	17.3	G1/4"	4.1	3.5	1.2	1		25.8
2"	5"	2.1	9.8	0.1	2.4	9.8	0.1	5.7	10.4	17.3	G1/4"	4.1	3.5	1.2	1		25.8

Dimensions in inch

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