

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 threads acc. ISO 228-1	G 1/2" up to G 2"
	NPT-treads	
	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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Admissible Pressures

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

minimum working pressure 8 psi

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Selection of tube quality

Permissible media temperature

	EPDM	NBR	Viton	Silicon	SBR
T max °C	203	176	266	320	176
T min °C	-22	-4	14	-40	-22

Resistance*

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

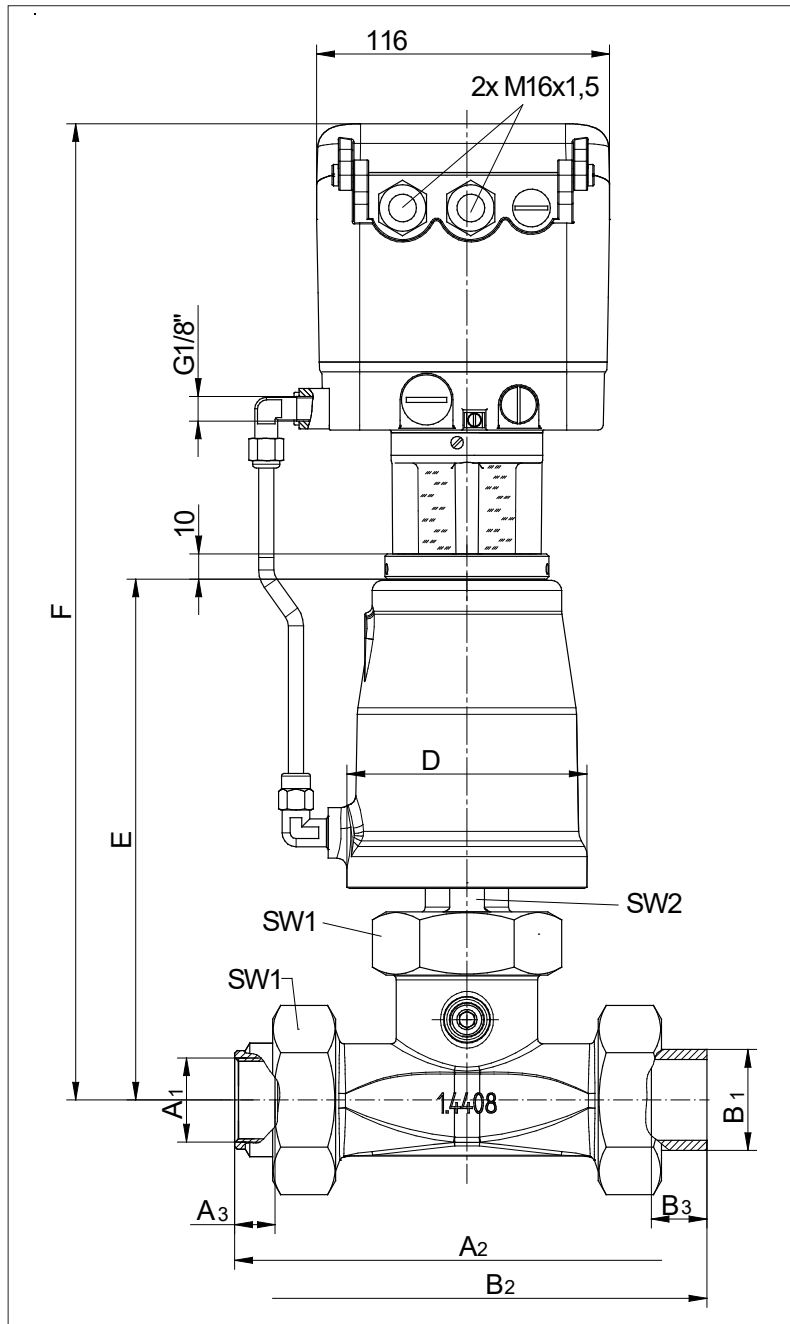
	EPDM	NBR	Viton	Silicon	SBR
FDA	x	x		x	
BfR	x	x		x	
EG 1935/2004/CE		x		x	
USP cl. VI				x	
EN ISO 3861					x

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Dimensions and Weights with threaded connection or inner sticking sockets



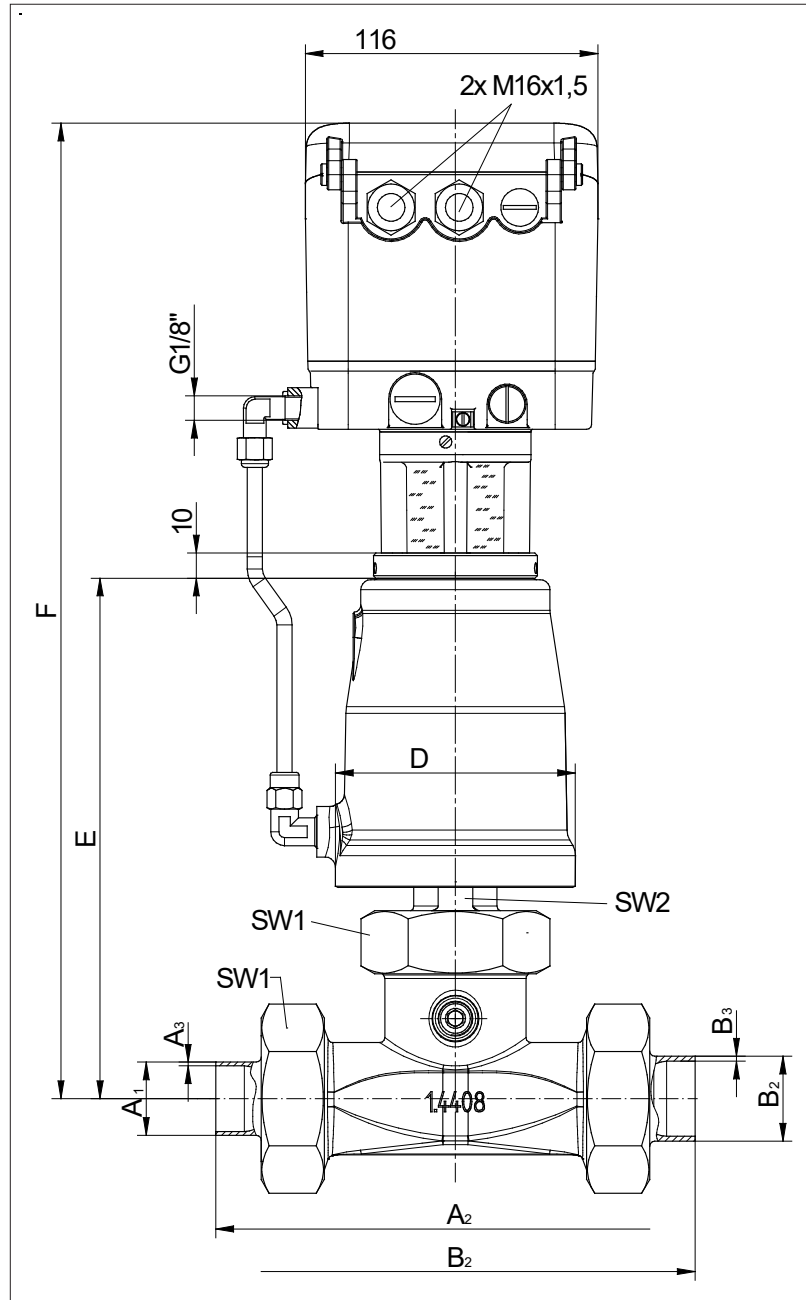
DN	Piston	Whitworth pipe thread			NPT-thread			Cement socket PVC			D	E	F	G	I	SW1	SW2	Stroke	Cvs-Value	Weight lbs
		A1	A2	A3	A1	A2	A3	B1	B2	B3										
1/2"	3"	Rp 1/2"	5.1	0.5	NPT 1/2"	5.2	0.6	0.8	5.1	0.6	3.9	7.2	14.1	G1/4"	3.5	1.8	1.1	0.6	14.5	11.2
3/4"	3"	Rp 3/4"	5.2	0.5	NPT 3/4"	5.2	0.6	1	5.4	0.7	3.9	7.2	14.1	G1/4"	3.5	1.8	1.1	0.6	14.5	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	27.7	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	27.7	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	97.1	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	97.1	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	97.1	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	97.1	25.8

Dimensions in inch

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Dimensions and Weights with welding ends



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

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	14.5	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	27.7	14.1
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	97.1	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

Dimensions in inch