Pinch Valve 7078

DN 15 up to DN 50

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

- Compact design with rotatable actuator
- Uneffected 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
- Operating pressure up to 6 bar

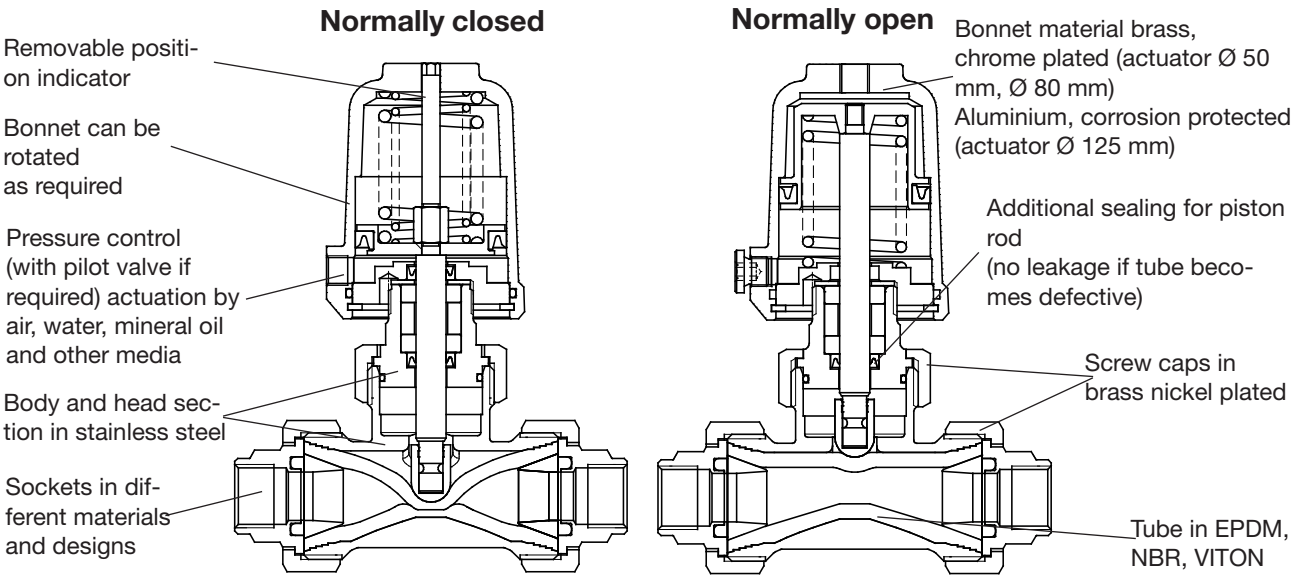
Technical data

Nominal Sizes	DN 15 up to DN 50	
Connections	Pipe threats acc. ISO 228-1 NPT-treats 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*)
	Tube material SBR:	-30°C up to +80°C
Ambient temperature	-15°C bis +60°C (special versions from -40°C up to +100°C)	

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

Options

e.g.:
- limit switches
  - induktive proximitiv switch
  - elektrical switches
  - pneumatic switches
- pilot valves
- additional manual override
- silicon free version



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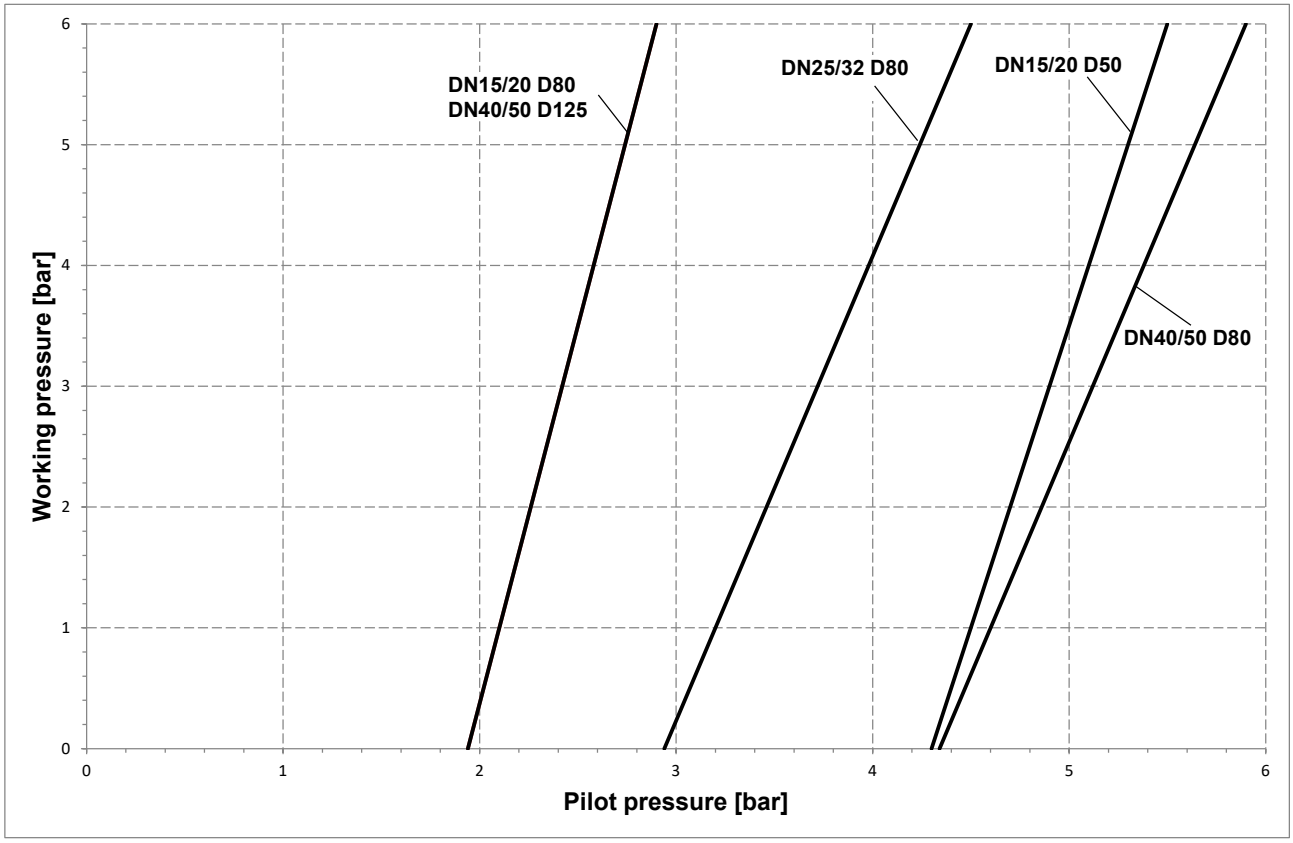
Differential pressures

Pinch valve normally open



For maximum tube life, use pilot pressure slightly above minimum indicated for the working pressure.

Pinch valve normally closed

DN	Tube material	Max. working pressure (bar)	Pilot pressure (bar)	Actuator size (mm)	Springs
15/20	EPDM	3	4,4 -10	50	2
	NBR				
	FKM				
	SBR	4			
	EPDM	6	5,6 -10	50	3
	NBR				
	FKM				
	SBR				
	EPDM	6	3,5 - 10	80	1
	NBR				
	FKM				
	SBR				
25/32	EPDM	4	3,5 - 10	80	1
	NBR	6			
	FKM				
	SBR	3			
	EPDM	6	4,4 -10	80	2
	NBR				
	FKM				
	SBR				

DN	Tube material	Max. working pressure (bar)	Pilot pressure (bar)	Actuator size (mm)	Springs
40/50	NBR	2	4,4 -10	80	2
	FKM				
	NBR	3	5,6 - 10	80	3
	FKM				
	EPDM	2	2,2 - 10	125	2
	NBR	4			
	FKM				
	EPDM	5	3,1 - 10	125	3
	NBR				
	FKM				
	SBR	3			

=Standard

mimimum working pressure 0,5 bar

Pinch Valve 7078

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

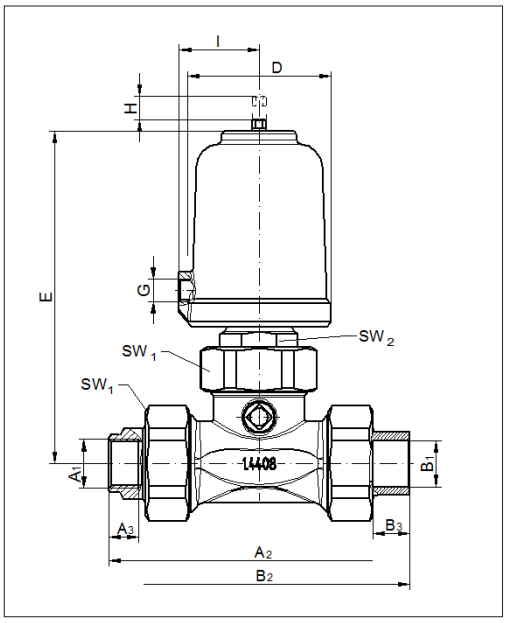
B: conditionally suitable

C: not suitable

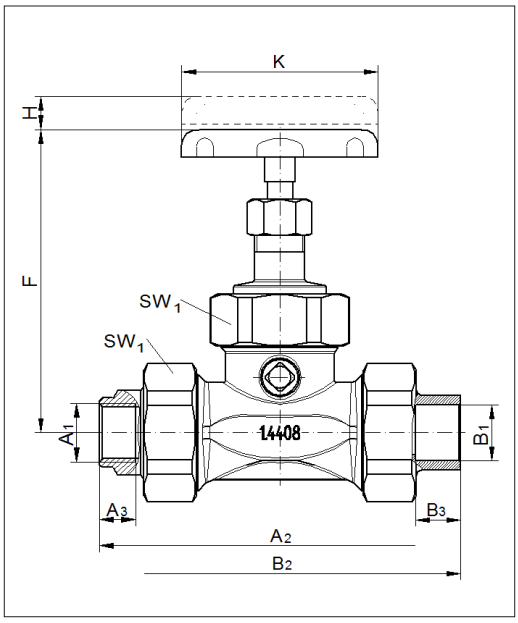
Approvals

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

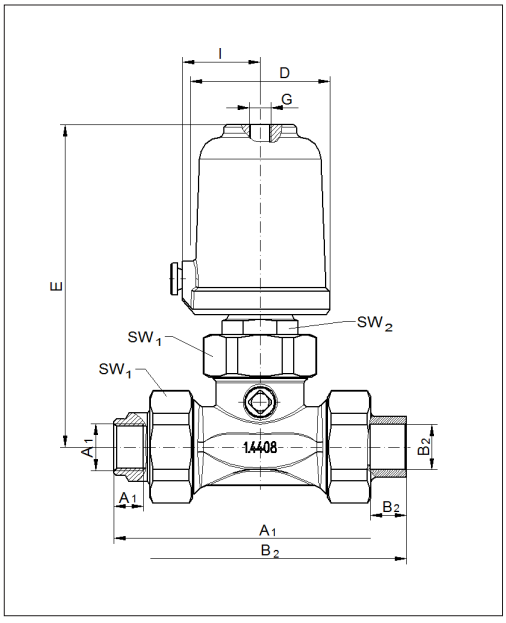
Dimensions and weights with threated connection or inner sticking socket



Normally closed



Manually operated

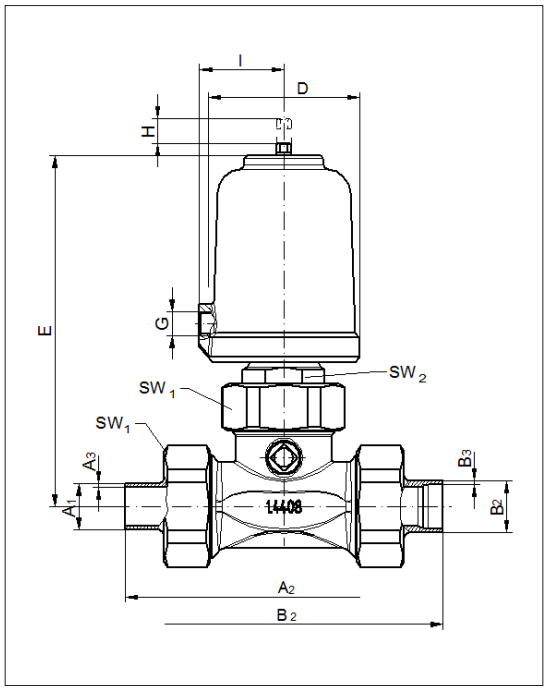


Normally open

DN	Piston	Whitworth pipe threat			NPT-threat			Inner sticking socket PVC			D	E	G	I	SW1	SW2	H Stroke	Kvs-Value	Weight kg
		A1	A2	A3	A1	A2	A3	B1	B2	B3									
15	50	Rp 1/2“	130	13	NPT 1/2“	132	14,5	20	130	16	62	144	G1/8“	35	46	27	16	9,5	1,7
15	80	Rp 1/2“	130	13	NPT 1/2“	132	14,5	20	130	16	98	183	G1/4“	55	46	27	16		3,7
20	50	Rp 3/4“	132	13	NPT 3/4“	132	15	25	136	19	62	144	G1/8“	35	46	27	16		2
20	80	Rp 3/4“	132	13	NPT 3/4“	132	6	25	136	19	98	183	G1/4“	55	46	27	16		4
25	80	Rp 1“	184	18	NPT 1“	182	17,9	32	190	22	98	215	G1/4“	55	65	30	22	15	5
32	80	Rp 1 1/4“	190	18	NPT 1 1/4“	194	19	40	200	26	98	215	G1/4“	55	65	30	22		5,3
40	80	Rp 1 1/2“	246	20	NPT 1 1/2“	246	18,4	50	256	31	98	260	G1/4“	55	88	30	34	70,5	7,9
40	125	Rp 1 1/2“	246	20	NPT 1 1/2“	246	18,4	50	256	31	146	285	G1/4“	80	88	30	34		9,6
50	80	Rp 2“	246	22	NPT 2“	246	18,8	63	272	38	98	260	G1/4“	55	88	30	34		8,2
50	125	Rp 2“	246	22	NPT 2“	246	18,8	63	272	38	146	285	G1/4“	80	88	30	34		9,9

Dimensions in mm

Dimensions and weights with welding ends



Normally closed

DN	Piston	Welding ends acc. to DIN			Welding ends acc. to ISO			D	E	G	I	SW1	SW2	Stroke	Kvs-value	Weight [kg]
		A1	A2	A3	B1	B2	B3									
15	50	19	130	1,5	21,3	1,6	130	62	144	G1/8“	35	46	27	16	9,5	1,7
15	80	19	130	1,5	21,3	1,6	130	98	183	G1/4“	55	46	27	16		3,7
20	50	23	130	1,5	26,9	1,6	130	62	144	G1/8“	35	46	27	16		2
20	80	23	130	1,5	26,9	1,6	130	98	183	G1/4“	55	46	27	16		4
25	80	29	190	1,5	33,7	2	190	98	215	G1/4“	55	65	30	22	15	5
32	80	35	190	1,5	42,4	2	190	98	215	G1/4“	55	65	30	22		5,3
40	80	41	250	1,5	48,3	2	250	98	260	G1/4“	55	88	30	34	70,5	7,9
40	125	41	250	1,5	48,3	2	250	146	285	G1/4“	80	88	30	34		9,6
50	80	53	250	1,5	60,3	2	250	98	260	G1/4“	55	88	30	34		8,2
50	125	53	250	1,5	60,3	2	250	146	285	G1/4“	80	88	30	34		9,9

Dimensions in mm

Angaben und Abbildungen sind unverbindlich. Änderungen vorbehalten.