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

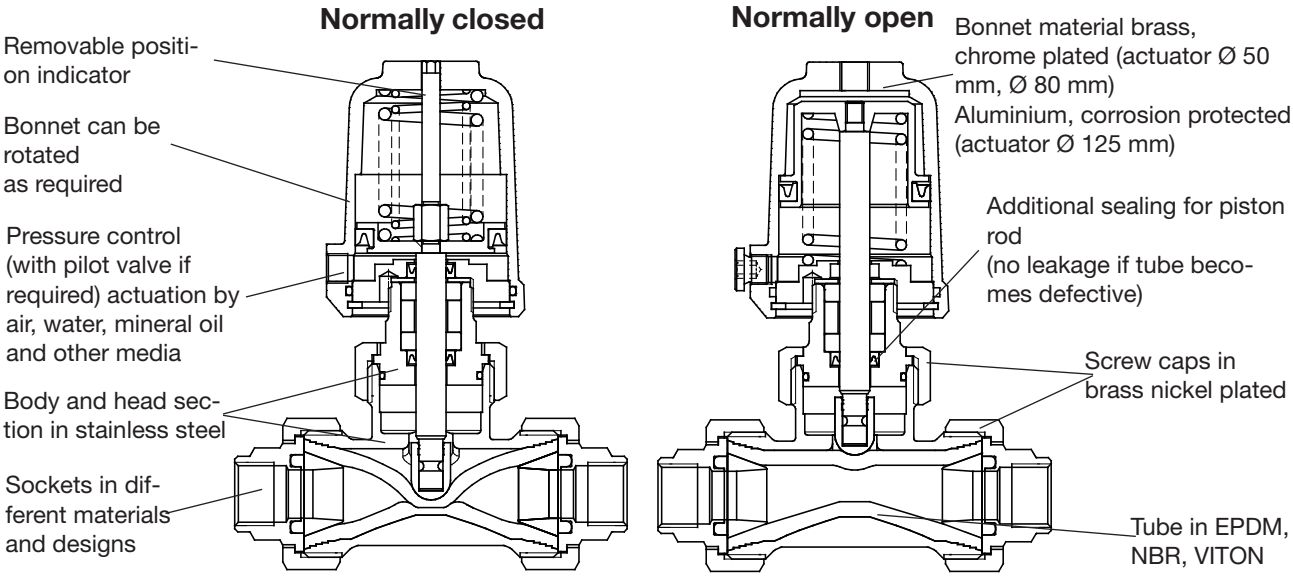
Technical data

Nominal Sizes	DN 15 up to DN 50
Connections	Pipe threats nach 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 1.4408, no contact with the fluid
Material in contact with the fluid	Sainless 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 Silikon: -40°C up to +160°C
	Tube material SBR: -30°C up to +80°C
Ambient temperature	-15°C up to +60°C

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

Options

e.g.:
- digital position indicator Typ 2040
- limit switches
  - induktive proximitiv switch
  - elektrical switches
  - pneumatic switches
- pilot valves
- additional manual override
- silicon free version



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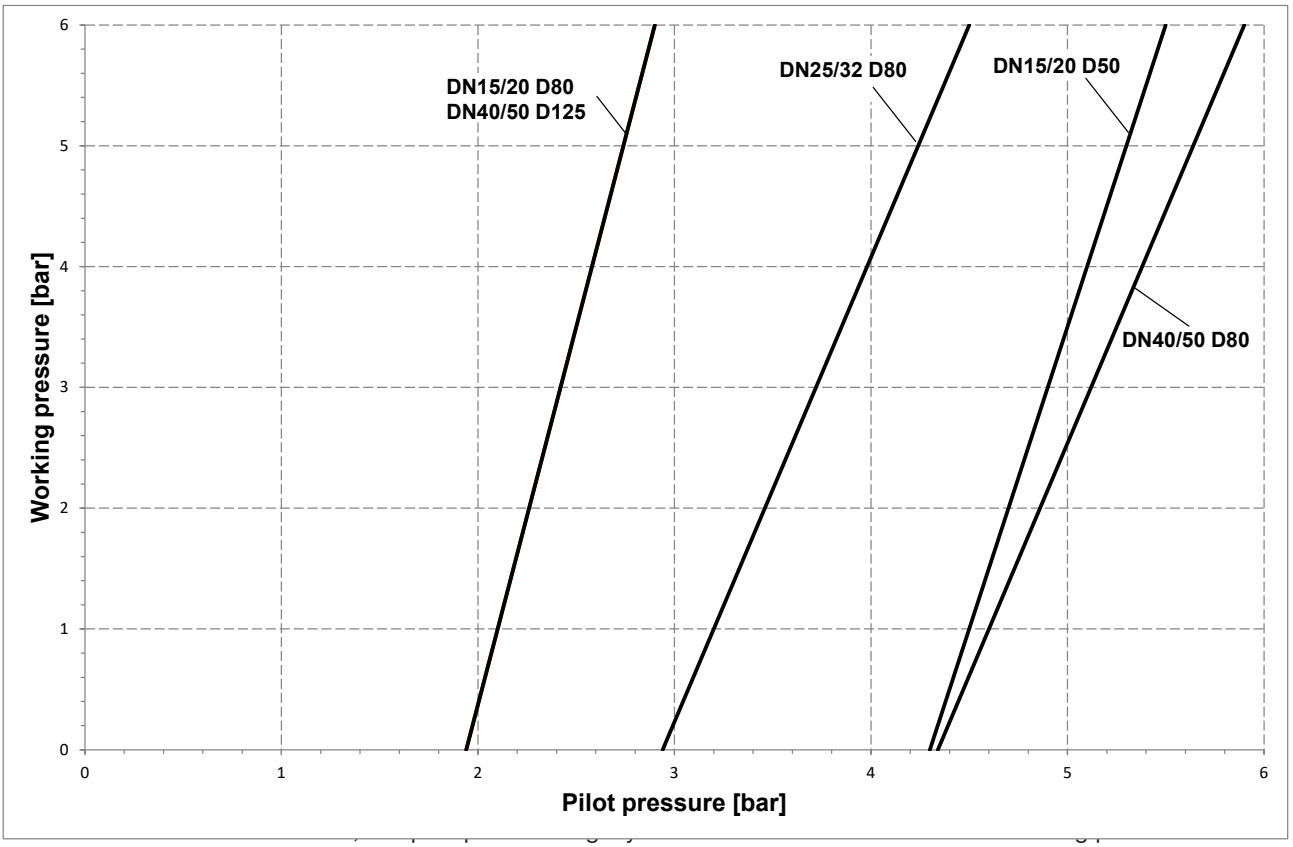
Pinch Valve 7078

Differential pressures

Pinch valve normally open



Pinch valve normally closed

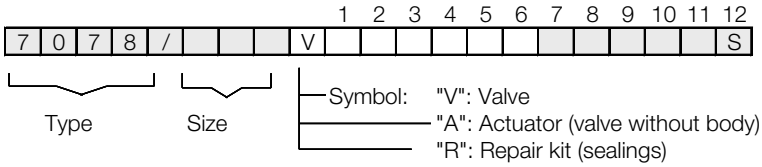
DN	Tube material	Max. working pressure (bar)	Pilot pressure (bar)	Actuator size (mm)	springs
15 / 20	EPDM	3	4,4 -10	50	2
	NBR				
	FKM				
	Silicone	6			
	SBR	4			
	EPDM	6	5,6 -10	50	3
	NBR				
	FKM				
	SBR				
	EPDM	6	3,5 - 10	80	1
	NBR				
	FKM				
	Silicone				
	SBR				
25 / 32	EPDM	4	3,5 - 10	80	1
	NBR	6			
	FKM				
	Silicone				
	SBR	3			
	EPDM	6	4,4 -10	80	2
	NBR				
	FKM				
	Silicone				
	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				
	Silicone	3			
	NBR	3	5,6 - 10	80	3
	FKM				
	Silicone	5			
	EPDM	2	2,2 - 10	125	2
	NBR	4			
	FKM				
	Silicone	6			
	EPDM	5	3,1 - 10	125	3
	NBR				
	FKM				
	Silicone	6			
	SBR	3			

=Standard

mimimum working pressure 0,5 bar

Ordering Number System



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

1.	Design	2.	Connection	3.	Connecting parts	4.	Tube material	5.	Pilot function	6.	Actuator
8	Pinch valve	0	Pipe thread acc. DIN 2999 / ISO 228	-	no specifications	-	without	-	without	0	Piston Ø50mm
				2	Stainless steel	1	FKM (Viton)	0	Spring closes	1	Piston Ø80mm
		3	Inner sticking socket			2	EPDM	1	Spring opens	2	Piston Ø125mm
				6	PVC			3	Double acting	5	Manually actuated
		5	NPT-thread			3	NBR				
		D	with welding ends acc. DIN			4	SBR				
						5	Silicone				
		I	with welding ends acc. ISO								
		Z	Tri-Clamp connection (inch)								

7.	Springs	8.		9.		10.	Temperatur version	11.	Accessories	12.	Special versions
-	Standard	-	without significance	-	without significance	-	standard	-	No accessories	B	Digital position indi-cator 2040, bluetooth
						V	Viton outer lip sealing (for higher am-bient tempera-tures)	1	Electrical position indicator with one switch	C	Digital position indi-cator 2040
								2	Electrical position indicator with two switches	M	Position indicator with cable bushing
								3	Manual emergency operation	N	Position indicator with plug connec-tion
								4	Additional manual operation	S	Special versions
								5	Stroke limitation		
								6	Pilot valve DN 2, 230 V AC		
								7	Pilot valve DN 2, 24 V DC		
								K	Electr. position indicator compact		
								M	Position indicator with two ind. switch 10 - 36 V DC (PNP)		
								P	Position indicator with one ind. switch 10 - 36 V DC (PNP)		
								T	Position indicator compact, inductive 10 - 30 V DC (PNP)		

Ordering example: 7078/025V836201- - - -3
Pinch valve, size DN 25, inner sticking socket,
PVC, EPDM-tube, N.C., actuator Ø 80 mm, manual emergency override.

Pinch Valve 7078

Selection of tube quality

Permissible media temperature

	EPDM	NBR	Viton	Silicon	SBR
T max °C	95	80	130	160	80
T min °C	-30	-20	-10	-40	-30

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

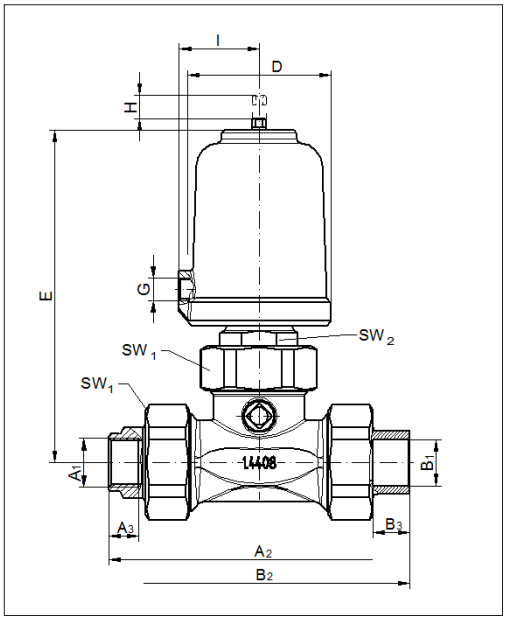
*In the case of information on resistance, this is only a recommendation, errors and omissions excepted (no liability accepted)

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

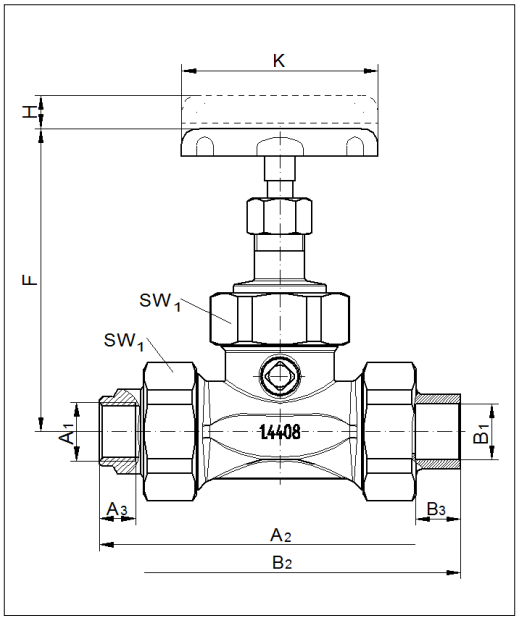
Approvals

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

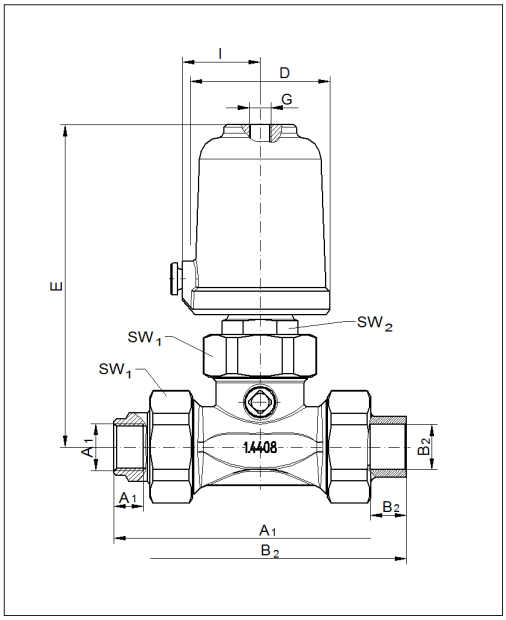
Dimensions and weights with threated connection or inner sticking socket



Normally closed



Manually operated

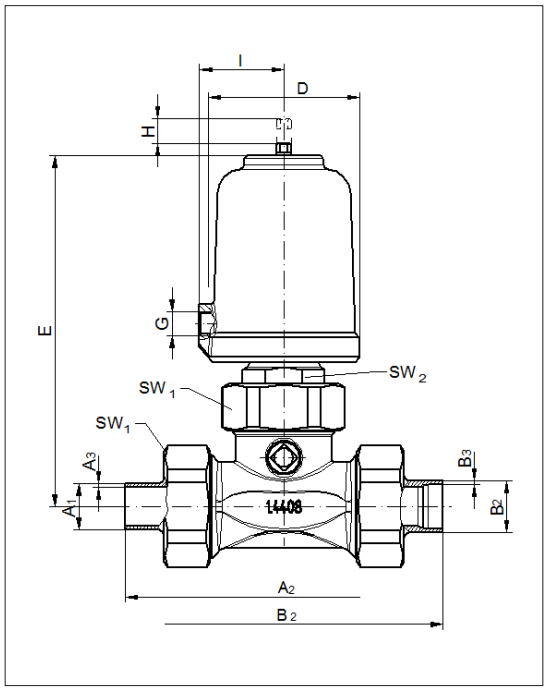


Normally open

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	15	20	130	16	62	144	G1/8"	35	46	27	16	12,5	1,7
15	80	Rp 1/2"	130	13	NPT 1/2"	132	15	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	18	32	190	22	98	215	G1/4"	55	65	30	22	24	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	50	256	31	98	260	G1/4"	55	88	30	34	84	7,9
40	125	Rp 1 1/2"	246	20	NPT 1 1/2"	246	18	50	256	31	146	285	G1/4"	80	88	30	34		9,6
50	80	Rp 2"	246	22	NPT 2"	246	19	63	272	38	98	260	G1/4"	55	88	30	34		8,2
50	125	Rp 2"	246	22	NPT 2"	246	19	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	12,5	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	24	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	84	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