



2/2-way pressure controlled valve

NC - Valve normally closed (as standard)

NO - Valve normally open (as option)

DW - Valve with double acting actuator (as option)

Direct pressure controlled valve.

The valve seat is opened against a spring force via the control medium.

In standard (NC) the valve closes with spring power.

■ Valve for cryonic fluids

## TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Poppet design
Connection	Sleeve connection G 1/4 - G 2 weld-on <small>Further connections like NPT on request</small>
Installation	Actuator upright
Pressure	0 - 16 bar / 0 - 40 bar (see table on page 2)
Medium	Clean, neutral gaseous and liquid media
Max. viscosity	600 mm <sup>2</sup> /s
Temperature range	Medium: -196 °C / +40 °C Environment: -10 °C / +60 °C
Body material	PN16: Stainless steel 1.4581 PN50: Stainless steel 1.4404
Metallic inner parts	Stainless steel
Sealing	PCTFE
Pilot pressure	4 - 10 bar <small>max. pressure range at min. 6 bar</small>
Pilot medium	Clean, neutral gaseous <small>Other pilot media on request</small>

## VALVE FEATURES

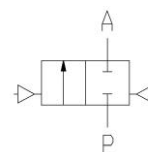
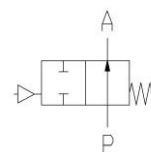
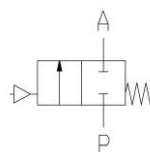
- For cryogenic media to -196 °C
- No pressure difference is required
- High life time
- High-quality materials
- Reliable and sturdy sealing elements

## FUNCTION

NC – non  
pressurized  
closed

NO – non  
pressurized open

DW - double  
acting



## CERTIFICATES



Pilot valve

**2/131-31-1702-C182**



3/2-way direct operated, NC  
G1/8, orifice 1.5mm, 0-8 bar  
Aluminum / Stainless steel / FKM  
with Cnomo-coil as well as with  
integrated screw connection for  
easy assembly

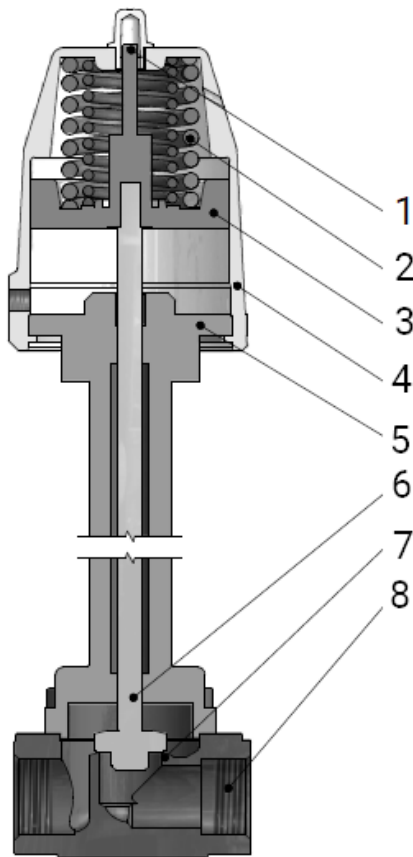
**A7231/1002/....**



3/2-way direct operated, NC  
G1/8, orifice 1.5mm, 0-8 bar  
brass / st. steel / FKM

# TECHNICAL FEATURES

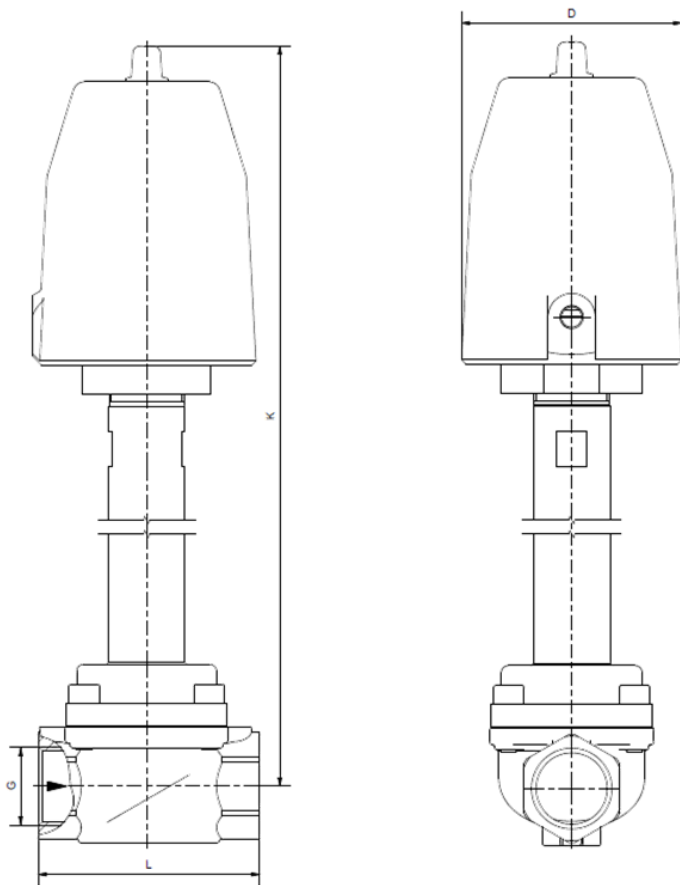
				max. pressure with actuator					
G / DN	Seat Ø mm	Kv-value m³/h	Standard type	7.05		7.08		7.13	
				PN16	PN50	PN16	PN50	PN16	PN50
1/4	13,5	1,9	.9021/0815/	0-16	-	-	-	-	-
3/8	13,5	4,0	.9022/0815/	0-16	-	-	-	-	-
1/2 / 15	13,5	4,7	.9023/0815/	0-16	0-25	-	0-40	-	-
3/4 / 20	25	11,9	.9024/0815/	0-16	-	-	0-25	-	0-40
1 / 25	25	13,3	.9025/0815/	0-8	-	0-16	0-25	-	0-40
1 1/4 / 32	40	30,0	.9026/0815/	-	-	0-8	0-25	0-16	0-40
1 1/2 / 40	40	35,0	.9027/0815/	-	-	0-8	0-16	0-16	0-40
2 / 50	50	49,0	.9028/0815/	-	-	-	-	0-16	0-40



Description	
1	Position indicator
2	Spring
3	Piston
4	Cylinder
5	Distancing
6	Spindle
7	Valve seat
8	Valve body



# DIMENSIONS

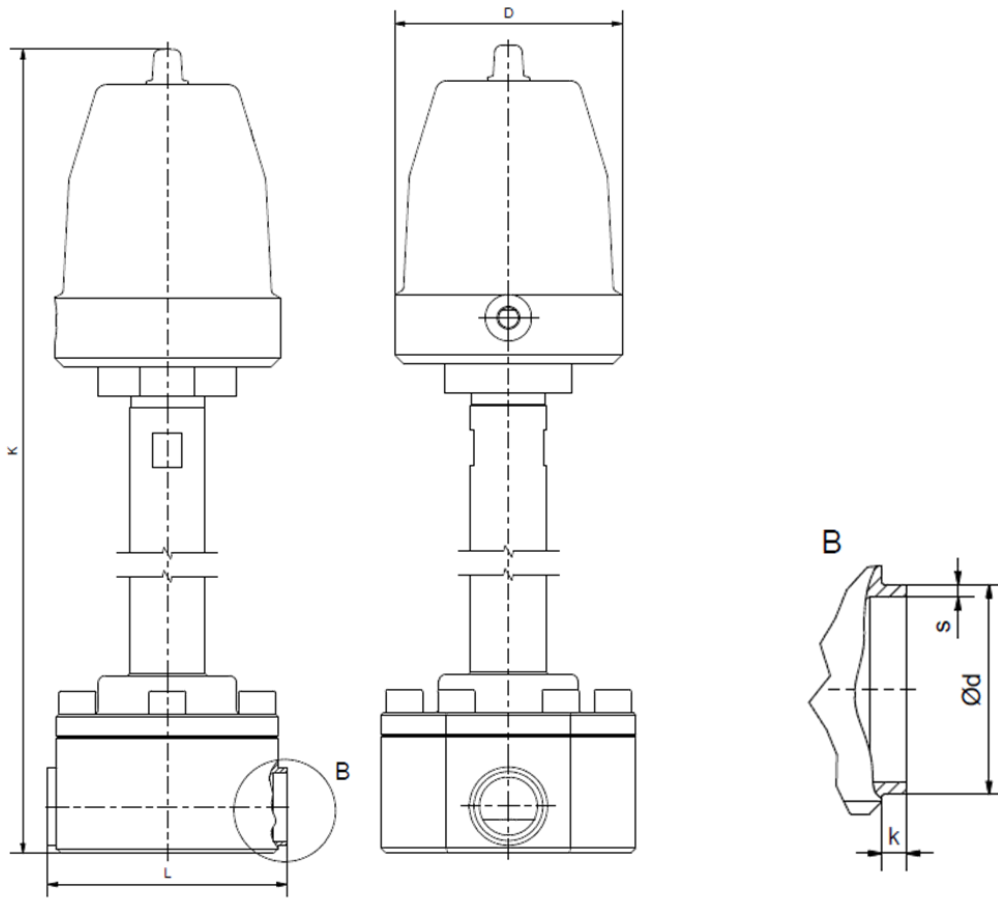


PN16

Actuator	7.05		7.08		7.13	
Type	A9021-23	A9024-25	A9024-25	A9026-27	A9026-27	A9028
G	1/4 - 1/2	3/4 - 1	3/4 - 1	1 1/4 - 1 1/2	1 1/4 - 1 1/2	2
K	400	410	440	470	535	545
L	67	96	96	140	140	168
D	62	62	94	94	145	145
kg	5,3	5,5	7,5	9,0	13,0	15,0



# DIMENSIONS



PN50

Actuator	7.05	7.08				7.13				
Type	B9023	B9024	B9025	B9026	B9027	B9024	B9025	B9026	B9027	B9028
DN	13,5	25	27,5	40	40	40	40	40	40	50
K	400	440	440	470	470	505	505	535	535	545
L	80	104	102	148	147	104	102	148	147	178
D	62	94	94	94	94	145	145	145	145	145
d	24	30	36	45	52	30	36	45	52	65
s	3,5	4	4	5	5,5	4	4	5	5,5	5,5
k	2	4	4	4	3,5	4	4	4	3,5	4
kg	6,3	8,5	8,5	10,0	10,0	12,5	12,5	14,0	14,0	14,0



## INFORMATION

- It is imperative to observe the installation and safety instructions in our operating and service manuals.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- **For information on the heating and performance of solenoid coils, refer to the corresponding "Coils" data sheet.**
- **Detailed production-specific drawings and other technical information will be made available when an order is placed.**

## PLEASE NOTE

Each individual application decides which valve type is required, the main factor being the resistance of the materials to the operating medium. The correct selection of materials requires knowledge of the concentration, temperature and degree of contamination of the medium. Other criteria include the operating pressure and max. volumetric flow, since, in addition to high temperatures, high pressures and high flow rates must also be taken into account when selecting the materials.

**All materials used for our valves, be it housing, seals or magnets, will be carefully selected in view of the different application areas. Any information given is non-binding and serves for orientation only. No claims under warranty can be derived therefrom.**

## ORDERING CODE

Type	Connection		Body		Sealing		Actuator		Option	
<b>B 90</b>	<b>2</b>	<b>3</b>	<b>0</b>	<b>8</b>	<b>1</b>	<b>5</b>	<b>7</b>	<b>5</b>	<b>A</b>	<b>S</b>
A PN16	21	G 1/4	08	St. steel 1.4581	7 .	Closed wo/ press.	HA	manual override		
B PN40	22	G 3/8		St. steel 1.4404	8 .	Open wo/ press.	AS	weld-on		
	23	G 1/2			9 .	double-acting				
	24	G 3/4	15	PCTFE	. 0	Standard-Actuat.				
	25	G 1			. 3	Actuat.-St. steel				
	26	G 1 1/4			. 5	Actuat. nickel-pl.				
	27	G 1 1/2			. 5	50 mm				
	28	G 2			. 8	80 mm				
					. 3	125 mm				