

#### **Technical Data Sheet Type 90**

2/2-way pressure operating 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.

Valve for cryonic fluids

# Vpe

#### **TECHNICAL SPECIFICATIONS**

Type of control	Pressure operated					
Design	Poppet design					
Connection	Threaded DIN ISO 228/1 Welding ends Further connections like NPT on request					
Installation	With actuator upright					
Pressure	0 - 16 bar and 0 - 40 bar (see table on page 2)					
Medium	Clean, neutral, gaseous and liquid media					
max. viscosity	600 mm²/s					
Temperature range	Medium: -196 °C up to +60 °C Ambient: -10 °C up to +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 max pressure with at least 6 bar					
Pilot medium	Clean and neutral gases Other pilot media on request					

Pilot valve



#### 2/131-31-1702-C182

A7231/1002/....

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



3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

#### 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

GSR

Ventiltechnik



AAA.



#### **CERTIFICATES**



#### **ORDERING SYSTEM**

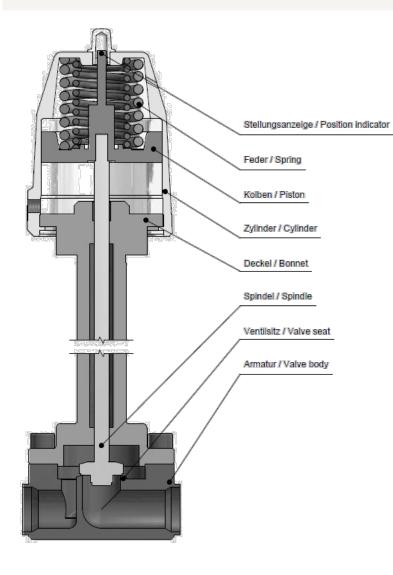




# **TECHNICAL FEATURES**



				max. pressure with actuator					
				7.05		7.08		7.	13
G / DN	Seat Ø mm	Kv-value m³/h	Standard type	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

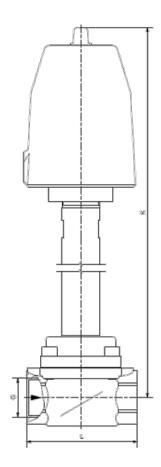


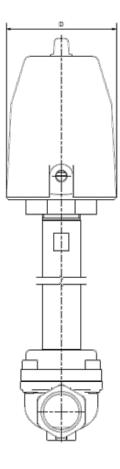


### DIMENSIONS



Type 90





PN16

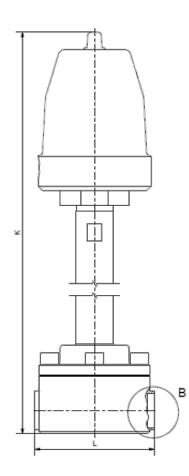
Actuator	7.05		7.	08	7.13		
Туре	A9021-23	A9024-25	A9024-25	A9026-27	A9026-27	A9028	
G	1/4 - 1/2	3/4 - 1	3/4 - 1	1 1/4 - 1 1/2	1 1/4 - 1 1/2	2	
К	400	410	440	470	535	545	
L	67	96	96	140	140	168	
D	62	62	94	94	145	145	
kg	5,3	5,5	7,5	9,0	13,0	15,0	

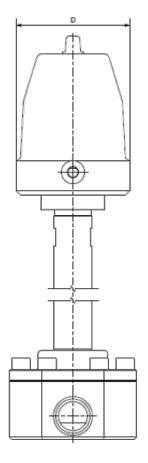


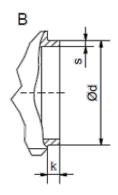
## DIMENSIONS



Type 90







PN50

Actuator	7.05	7.08				7.13				
Туре	B9023	B9024	B9025	B9026	B9027	B9024	B9025	B9026	B9027	B9028
DN	13,5	25	27,5	40	40	40	40	40	40	50
К	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.
- For information on our GSR ordering code, please refer to our catalogs. If you have any questions, we will be glad to assist you.
- Required ordering information: valve type, function NC/NO, pressure range, connection, nominal width, medium, flow rate, medium and ambient temperatures, connection voltage.
- 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.

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Stand: 08.17, MK-MG, Version 1.



