



# Technical Data Sheet Type 1/921



3/2-way valve  
Universal design

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

- Pressure controlled valve for high pressure applications

Type 1/921

## TECHNICAL SPECIFICATIONS

Type of control	Direct pressure operated
Design	Piston design
Connection	Threaded G1/4 - G1 DIN ISO 228/1 (BSP) Other connections like NPT on request
Installation	Preferable with actuator upright
Pressure	0 - 500 bar (see table on page 2)
Medium	Clean, neutral, gaseous and liquid Media
Viscosity	22 mm <sup>2</sup> /s
Temperature range	Medium: -10 °C to +80 °C Ambient: -10 °C to +60 °C In consideration of the restrictions described on page 4
Body material	Stainless steel 1.4571
Metallic inner parts	Stainless steel
Sealing	PTFE
Pilot pressure	4 - 10 bar
Pilot medium	Clean and neutral gases
<b>Pilot valve</b>	<b>A7231/1002/....</b>



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

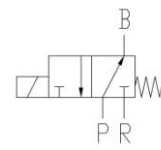
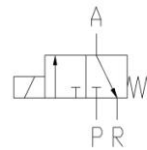
## VALVE FEATURES

- For high pressure applications up to 500 bar
- No pressure difference required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

## FUNCTION

NC – non energized closed

NO – non-energized open



## CERTIFICATES

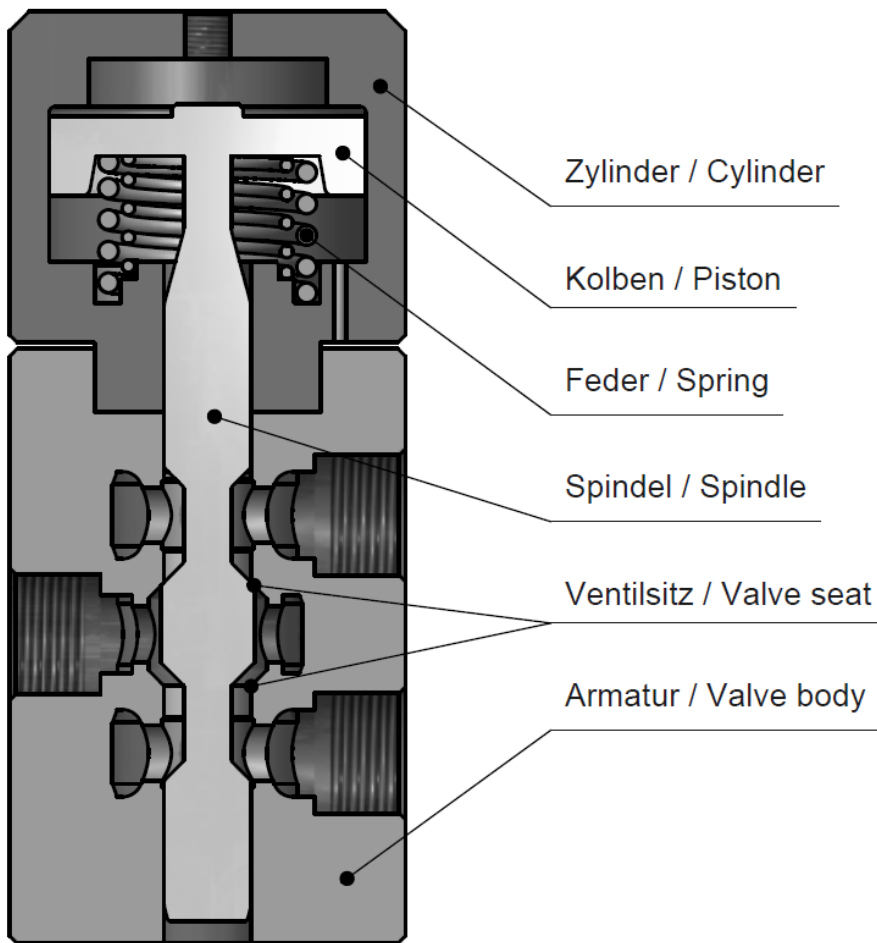


## ORDERING SYSTEM

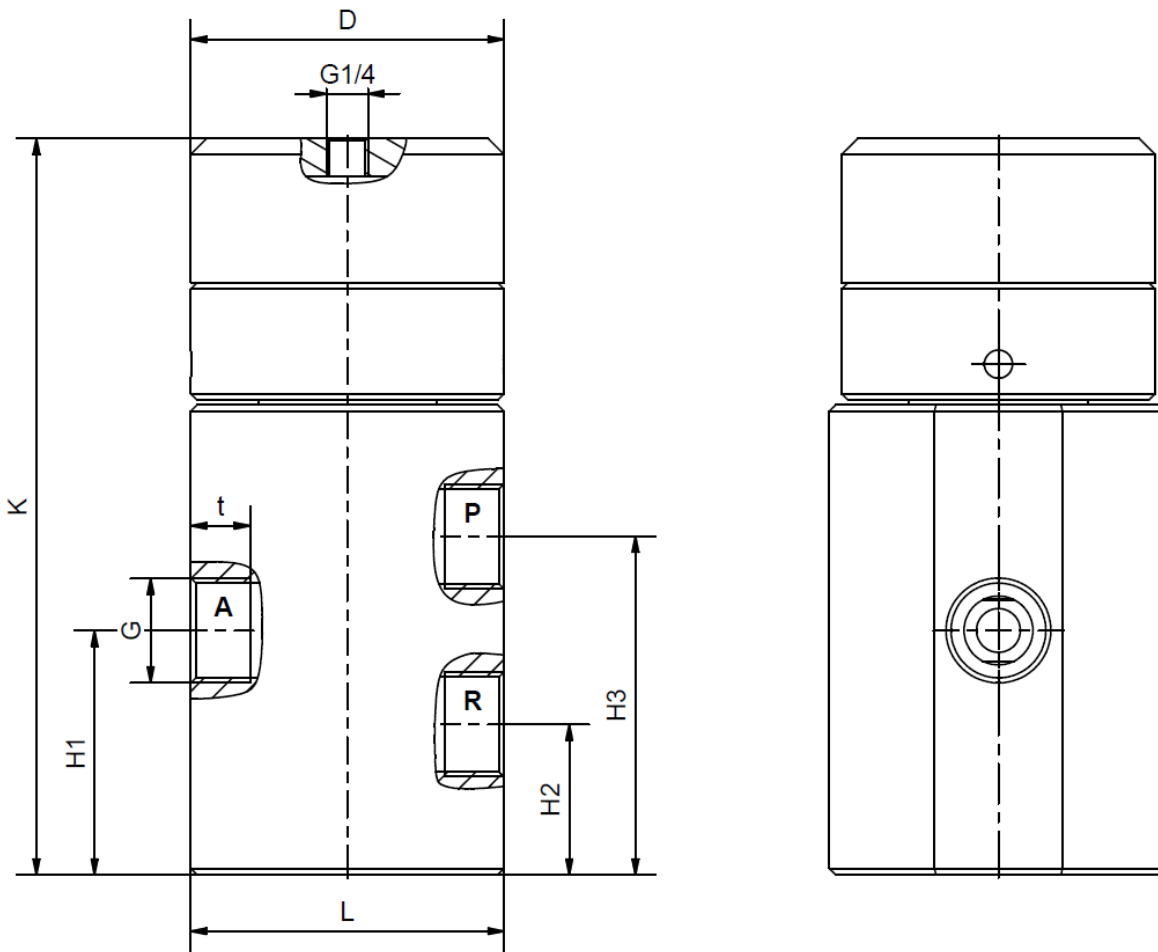
Valve type		Actuator		Options					
1	/ 9 2 1	-	2 3	-	0 8 1 5	-	7 5 0 5	-	E X
<b>Connection</b>		<b>Body material</b>		<b>Seal material</b>					
21	G 1/4	08	Edelstahl 1.4581	05	50 mm				
22	G 3/8			08	80 mm				
23	G 1/2			70	Standard actuator				
24	G 3/4			75	Actuator chem. nickel plated				
25	G 1								

## TECHNICAL FEATURES

G	Seat Ø mm	Kv-value m³/h	Standard type	max. pressure at 6 bar pilot pressure	
				Actuator 7.05	Actuator 7.08
1/4	10	1,0	1/921-21-0815-....	0-320	0-500
3/8	10	1,0	1/921-22-0815-....	0-320	0-500
1/2	10	1,2	1/921-23-0815-....	0-320	0-500
3/4	22	7,0	1/921-24-0815-....	0-100	0-350
1	22	8,0	1/921-25-0815-....	0-100	0-350



# DIMENSIONS



Actuator	7.05					7.08				
Type	1/921-21	1/921-22	1/921-23	1/921-24	1/921-25	1/921-21	1/921-22	1/921-23	1/921-24	1/921-25
G	1/4	3/8	1/2	3/4	1	1/4	3/8	1/2	3/4	1
D	78	78	78	78	78	100	100	100	100	100
H1	52,5	52,5	52,5	78	78	52,5	52,5	52,5	78	78
H2	32,5	32,5	32,5	48	48	32,5	32,5	32,5	48	48
H3	72,5	72,5	72,5	108	108	72,5	72,5	72,5	108	108
K	188	188	188	230	230	197	197	197	235	235
L	70	70	70	100	100	70	70	70	100	100
t	12,5	12,5	14,5	17	19	12,5	12,5	14,5	17	19
kg	6	6	6	11,8	11,8	7,9	7,9	7,9	13,2	13,2

## 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: 04.17, MK-MG, Version 1.**