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 mm²/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

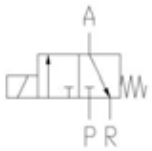
Pilot valve	**A7231/1002/....**
	3/2-way direct operated, NC G1/8, orifice 1.5mm, 0-8 bar Brass / Stainless steel / FKM

VALVE FEATURES

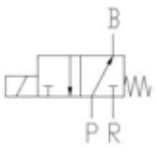
- For high pressure applications up to 500 bar
- No pressure difference required
- High life time
- Simple compact valve design
- High-quality materials
- Reliable and sturdy sealing elements

FUNCTION

NC – non energized closed

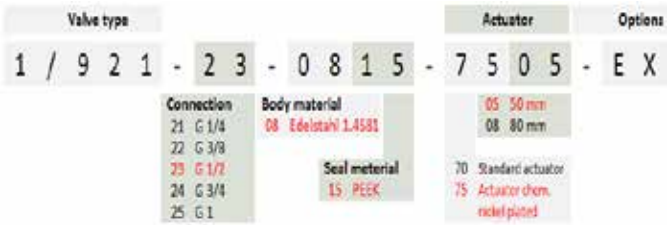


NO – non-energized open



CERTIFICATES

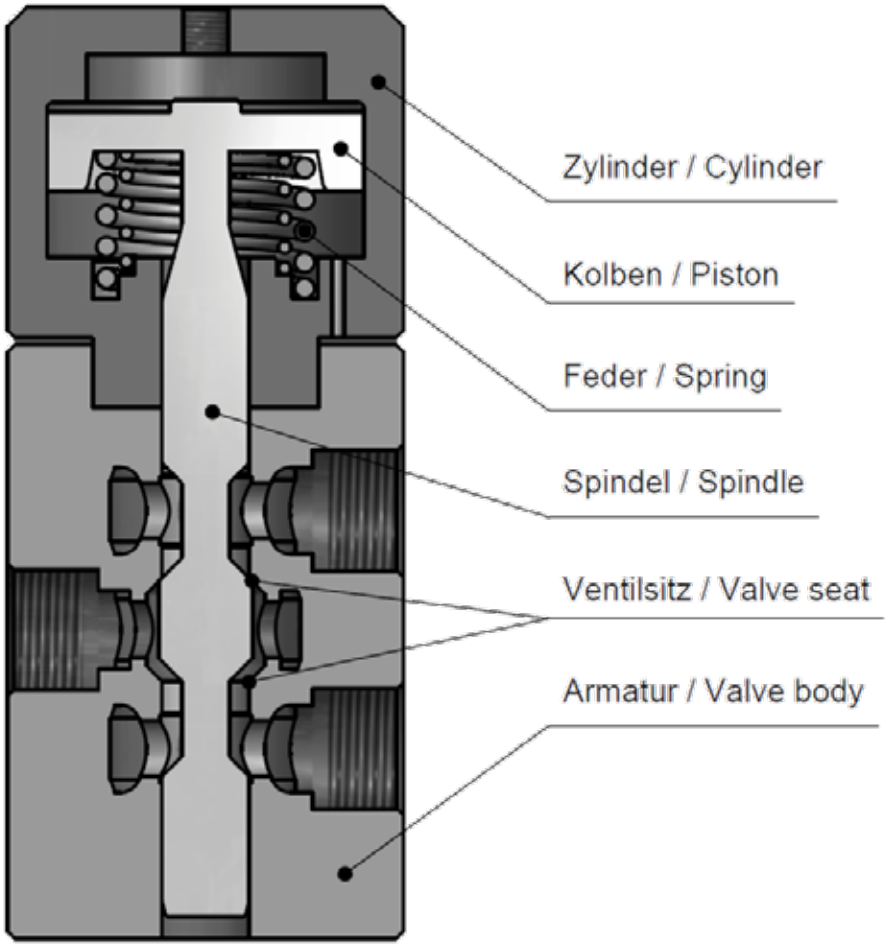
ORDERING SYSTEM



Type 1/921

TECHNICAL FEATURES

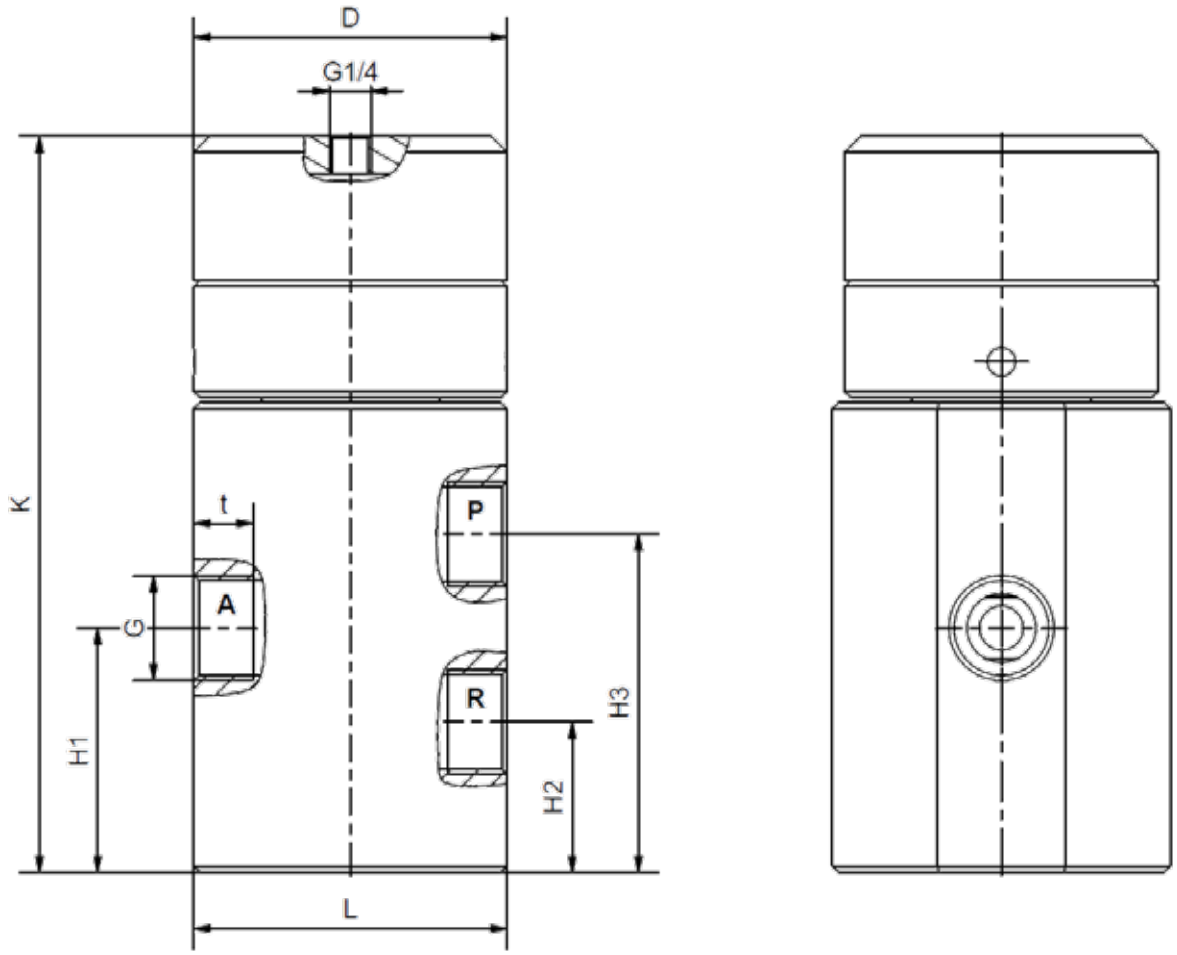
				max. pressure at 6 bar pilot pressure	
G	Seat Ø mm	Kv-value m³/h	Standard type	Actuator 7.05	Actuator 7.08
1/4	10	1,0	1/921-21-0815-....	0-320	0-500
3/8	10	1,0	1/921-22-0815-....	0-320	0-500
1/2	10	1,2	1/921-23-0815-....	0-320	0-500
3/4	22	7,0	1/921-24-0815-....	0-100	0-350
1	22	8,0	1/921-25-0815-....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



GSR Ventiltechnik

Type 1/921

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.

Stand: 04.17, MK-MG, Version 1.