DATA SHEET

Type 2111

Pneumatically actuated 2/2-way globe valve for decentralised automation

- For high-pressure applications up to 1000 bar
- Long service life
- Simple, compact valve design
- Reliable and tested sealing elements
- Suitable for hydrogen

Product variants described in the data sheet may differ from the product presentation and description.

Can be combined with

Type 7012
Direct-acting 3/2-way plunger valve

Type 6014
Plunger valve 3/2-way direct-acting

Type description

The innovative Bürkert process on/off valve Type 2111 is the solution when it comes to shut-off tasks under demanding operating conditions. The directly controlled globe valve is specifically designed for high-pressure applications and meets all hydrogen-related industry requirements. Maximum service life and tightness are ensured by the Dynamic Sealing Package, even under heavy load conditions. High-quality stainless steels and additional refinement processes make pressure-bearing, moving parts resistant to hydrogen embrittlement. Furthermore, the unique design allows for easy detection of leaks and escaping gases, providing an enhanced degree of safety.

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Visit product website

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1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 7.
Material	
Body	Stainless steel 1.4404
Seal	Metal
Design	Seat valve with disc seal
Nominal diameter	DN 4, DN 8
Safety position in the event of power failure	Closed (control function A)
Flow direction	In closing direction (above seat)
Performance data	
Operating pressure	0...1000 bar(g)
Nominal pressure	PN 1000
Pilot Pressure	6...10 bar(g)
Tightness	
Permissible internal leakage rate	2×10^{-3} mbar l/s at 20 bar, 5×10^{-5} mbar l/s at nominal pressure
Permissible external leakage rate	5×10^{-5} mbar l/s
Max. switching cycles with regard to leakage rates	Ca. 30.000 at Δp = 100...200 bar
Max. absolute switching cycles (service)	Ca. 80.000 (1 year) at Δp = 100...200 bar
K_V value	0.4 m^3/h...0.7 m^3/h
Medium data	
Operating medium [1)]	Hydrogen
Medium temperature	- 40 °C...+ 80 °C
Viscosity	Max. 22 mm^2/s
Control medium	Clean, neutral gases
Approvals and conformities	
Further information can be found in chapter "3. Approvals and conformities" on page 5.	
Explosion protection	Further information can be found in chapter "3.4. Explosion protection" on page 5.
Material certificate	2.2, 3.1
Product connections	
Port connection	
Threaded connection	UNF 13/16 - 16
Pilot air port	G ⅛
Environment and installation	
Degree of protection	IP44
Installation position	Upright or horizontal actuator
Ambient temperature	- 20 °C...+ 60 °C

1.) Media resistance according to the material combination

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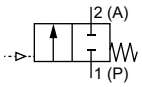
2. Control functions

⚠ CAUTION

Risk of injury due to bursting pipes and bursting appliance if the flow is above the seat.
In the case of liquid media, a closing impact can cause pipes and the appliance to burst.

Do not use valves with flow direction above the seat for liquid media.

Symbol	Description
Flow direction above seat	
	**Control function A (CF A)** Pneumatically operated 2/2-way on/off valve Flow direction above seat Normally closed by spring force

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3. Approvals and conformities

3.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

3.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

- Pressure Equipment Directive 2014/68/E
- Machinery Directive 2006/42/EC

3.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

3.4. Explosion protection

Approval	Description
	Optional: Explosion protection (expected to be available from Q3 2026) As a category 2 device suitable for zone 1/21 and zone 2/22 (optional). **ATEX:** II 2G Ex h IIC T6...T4 Gb X II 2D Ex h IIIC T80 °C Db X **IECEx:** Ex h IIC T6...T4 Gb X Ex h IIIC T80 °C Db X

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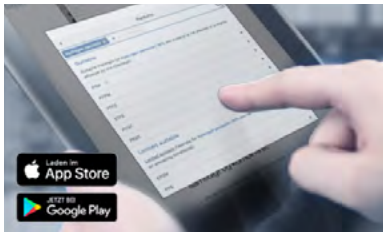
4. Materials

4.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

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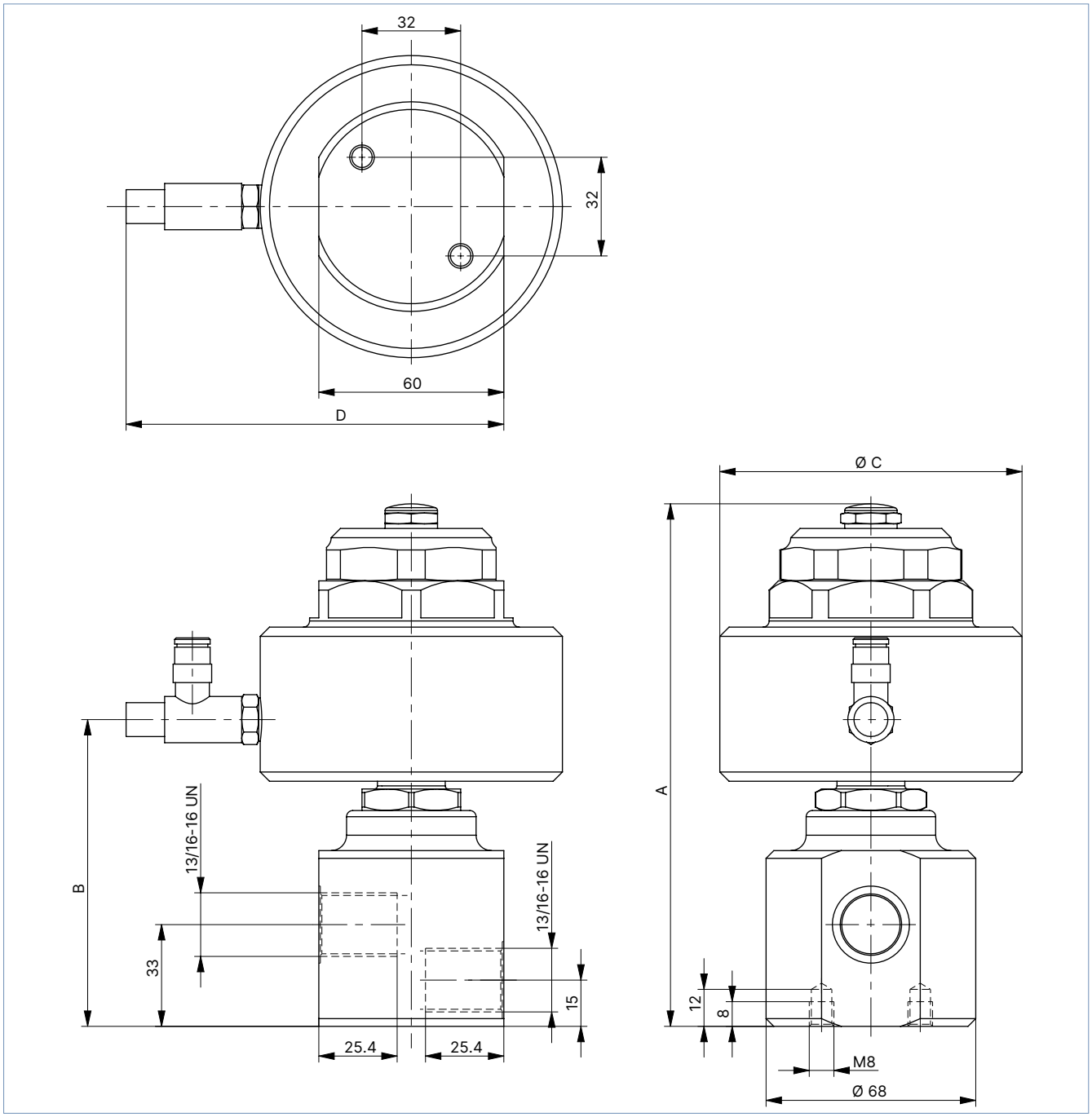
5. Dimensions

5.1. Actuator

ATEX variant

Note:
Dimensions in mm, unless otherwise stated



DN	A	B	Ø C	D
4	169.5	99.5	98	122.5
8	220.1	118.6	149	148

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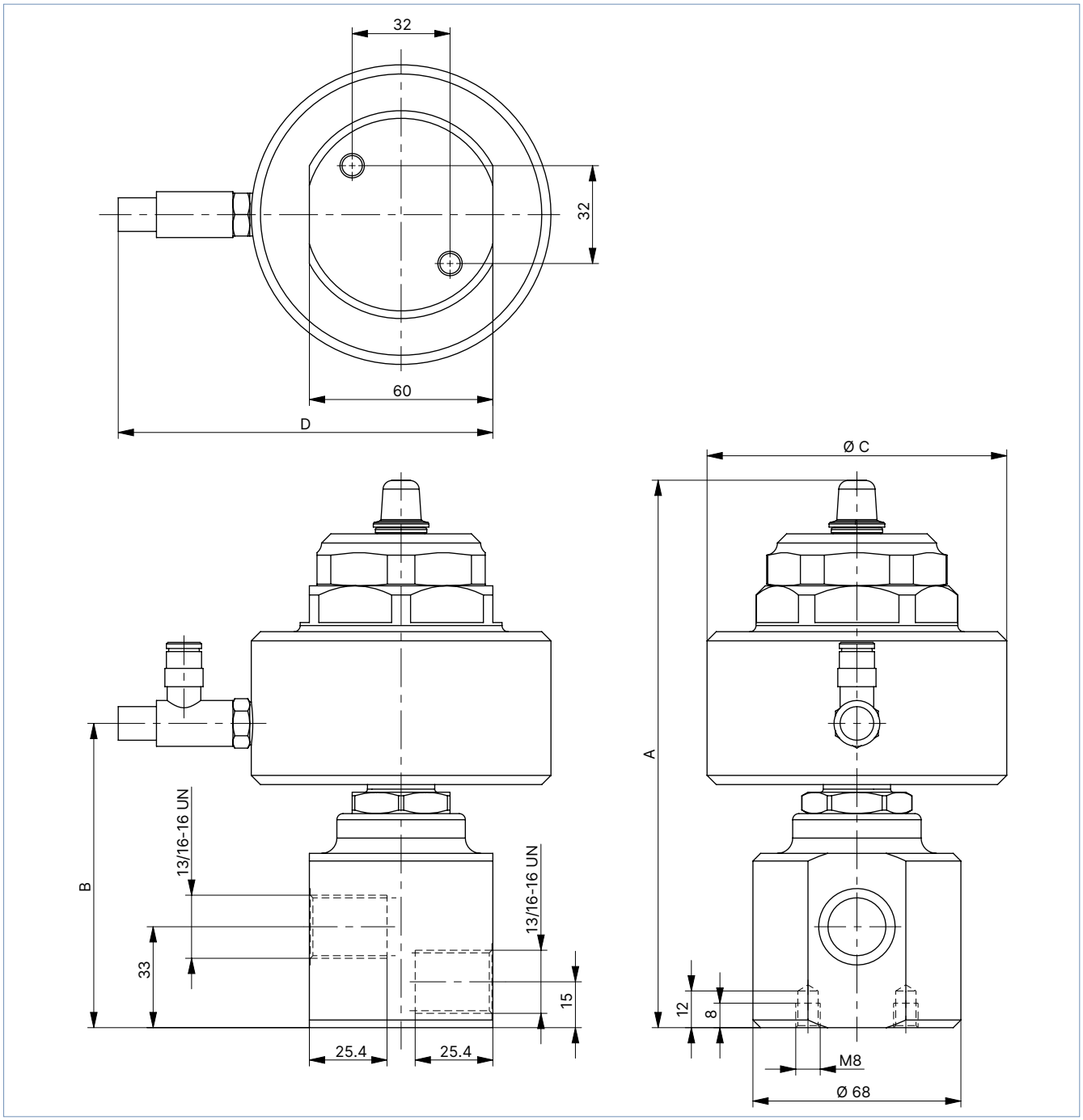
Standard variant

Note:
Dimensions in mm, unless otherwise stated



DN	A	B	Ø C	D
4	179	99.5	98	122.5
8	230	118.6	149	148

6. Ordering information

6.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

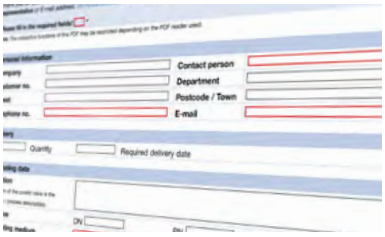
6.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
Use the Bürkert product filter and find suitable articles for your application quickly and easily.

Try out our product filter

6.3. Bürkert Product Enquiry Form



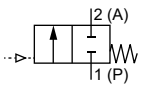
Bürkert Product Enquiry Form – Your enquiry quickly and compactly

Would you like to make a specific product enquiry based on your technical requirements? Use our Product Enquiry Form for this purpose. There you will find all the relevant information for your Bürkert contact. This will enable us to provide you with the best possible advice.

Fill out the form now

6.4. Ordering chart

Valves with flow direction below seat

Control function	Nominal diameter [mm]	Actuator size Ø [mm]	Pilot pressure [bar]	Pressure range [bar]	Article no.	Article no. Certified ATEX II XX
UNF 13/16 - 16 connector						
A (CF A) Pneumatically operated 2/2-way on/off valve Flow direction above seat Normally closed by spring force [1.] 	**Stainless steel actuator**					
	4.0	80 (F)	6...10	0...1000	20093264	20093266
	8.0	80 (F)	6...10	0...1000	20093265	20093267

1.) Further information can be found in chapter "2. Control functions" on page 4.

2.) In accordance with the Pressure Equipment Directive 2014/68/EU for compressible fluids of group 1 (hazardous gases and vapours in accordance with Article 4, paragraph (1), c), i), first indent)

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