5/2-way pulse and 5/3-way solenoid valve for pneumatic applications

- 16.5 mm width/station
- Compact design
- Block assembly
- Fast switching times

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

Type description

The pilot valve Type 0461 consists of a pilot control solenoid valve with double coil and pneumatic slide valve. The principle allows the switching of high pressures together with low power consumption and fast switching times. All valves are equipped with a manual override as a standard.

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Visit product website

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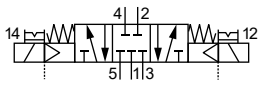
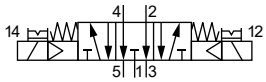
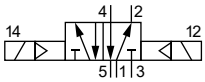
1. General technical data

Product properties	
Dimensions	Further information can be found in chapter "5. Dimensions" on page 5.
Material	
Seal	NBR
Body	Aluminium
Manual override	Standard
Orifice	DN 6
Pneumatic module	MP12
Circuit function	L, N and Z Further information can be found in chapter "2. Circuit functions" on page 3.
Performance data	
Flow rate (Q_{Nn} value air) [1.]	500 l/min
Response time [2.]	15 ms...50 ms
Electrical data	
Operating voltage	24 V DC
Nominal power	1 W
Medium data	
Operating medium	Lubricated or oil-free compressed dry air, neutral gases (10 µm filter recommended)
Product connections	
Electrical connection	Rectangular plug
Port connection	Flange

1.) Measurement at + 20 °C, 6 bar at the valve inlet and 1 bar differential pressure
2.) Measurement according to ISO 12238

2. Circuit functions

Symbol	Description
	**Circuit function L (CF L)** 5/3-way solenoid valve In middle position all ports locked With auxiliary pressure, with manual override
	**Circuit function N (CF N)** 5/3-way solenoid valve With manual override In middle position ports 2 and 4 exhausted
	**Circuit function Z (CF Z)** 5/2-way solenoid valve Impulse variant with 2 coils Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.

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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

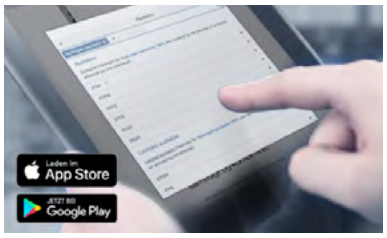
In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

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.

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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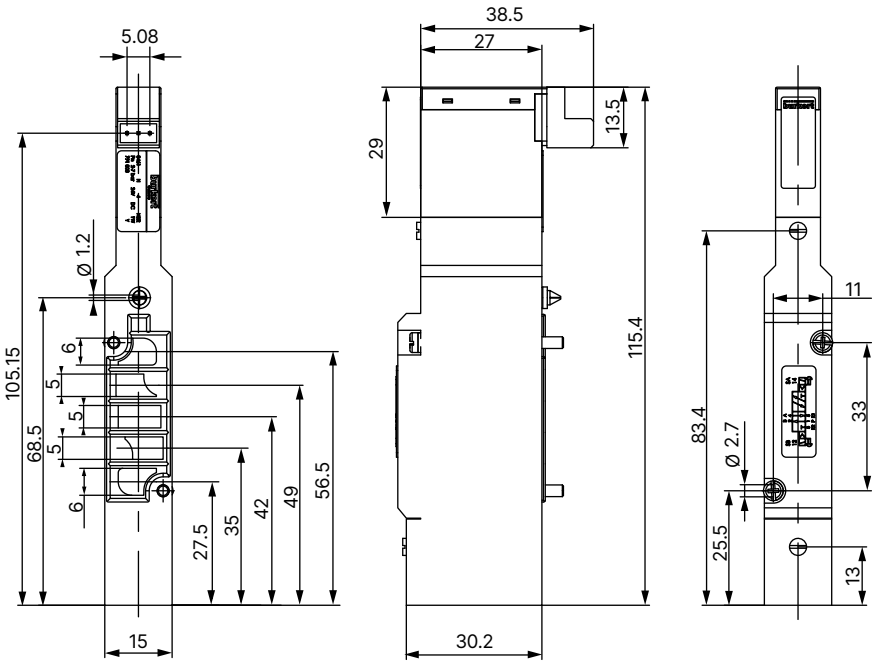
5. Dimensions

5.1. 5/2-way impulse and 5/3-way variant

Note:
Dimensions in mm



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

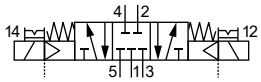
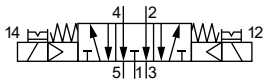
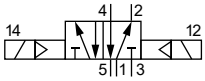
6.2. Bürkert product filter

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. Ordering chart

Circuit function	Orifice	Q_{Nn} value air [1.)]	Response times		Nominal power	Pressure range [2.)]	Article no.
			Opening	Closing			
	[mm]	[l/min]	[ms]	[ms]	[W]	[bar]	
CF L 5/3-way solenoid valve In middle position all ports locked With auxiliary pressure, with manual override 	6	500	20	30	1	2.5...7.0	156767
CF N 5/3-way solenoid valve With manual override In middle position ports 2 and 4 exhausted 	6	500	15	50	1	2.5...7.0	156768
CF Z 5/2-way solenoid valve Impulse variant with 2 coils Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	6	500	15	50	1	2.5...7.0	156766

1.) Measurement at + 20 °C, 6 bar at the valve inlet and 1 bar differential pressure

2.) Pressure data: overpressure to atmospheric pressure

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