



## 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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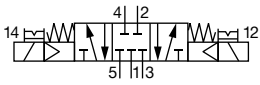
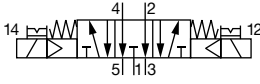
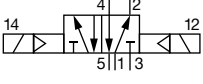
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## 1. General technical data

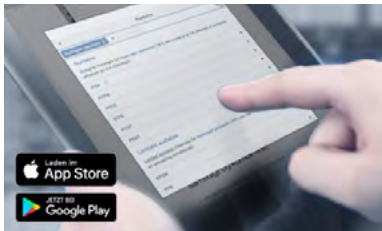
Product properties	
Dimensions	Detailed information can be found in chapter "4. Dimensions" on page 4.
Material	
Body	Aluminium
Seal	NBR
Pneumatic module	MP12
Manual override	Standard
Performance data	
Response times (Measurement acc. to ISO 12238)	15 ms...50 ms
Flow rate: (Q <sub>Nn</sub> value air)	500 l/min (measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference)
Electrical data	
Operating voltages	24 V DC
Medium data	
Medium	Lubricated and non lubricated dry compressed air; neutral gases (10µm filter recommended)
Process/Port connection & communication	
Port connection	Flange
Electrical connection at the valve	Rectangular plug

## 2. Circuit functions

Circuit functions	Description
	<b>Type: L, solenoid valve</b> 5/3 way With manual mode In middle position all ports locked Normally closed
	<b>Type: N, solenoid valve</b> 5/3 way With manual mode In middle position ports 2 and 4 exhausted
	<b>Type: Z, solenoid valve</b> 5/2 way Impulse version with 2 coils Normally open There is always one of the two outlet ports (2) or (4) pressurized when coil is activated.

## 3. Materials

### 3.1. Chemical Resistance Chart – 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.

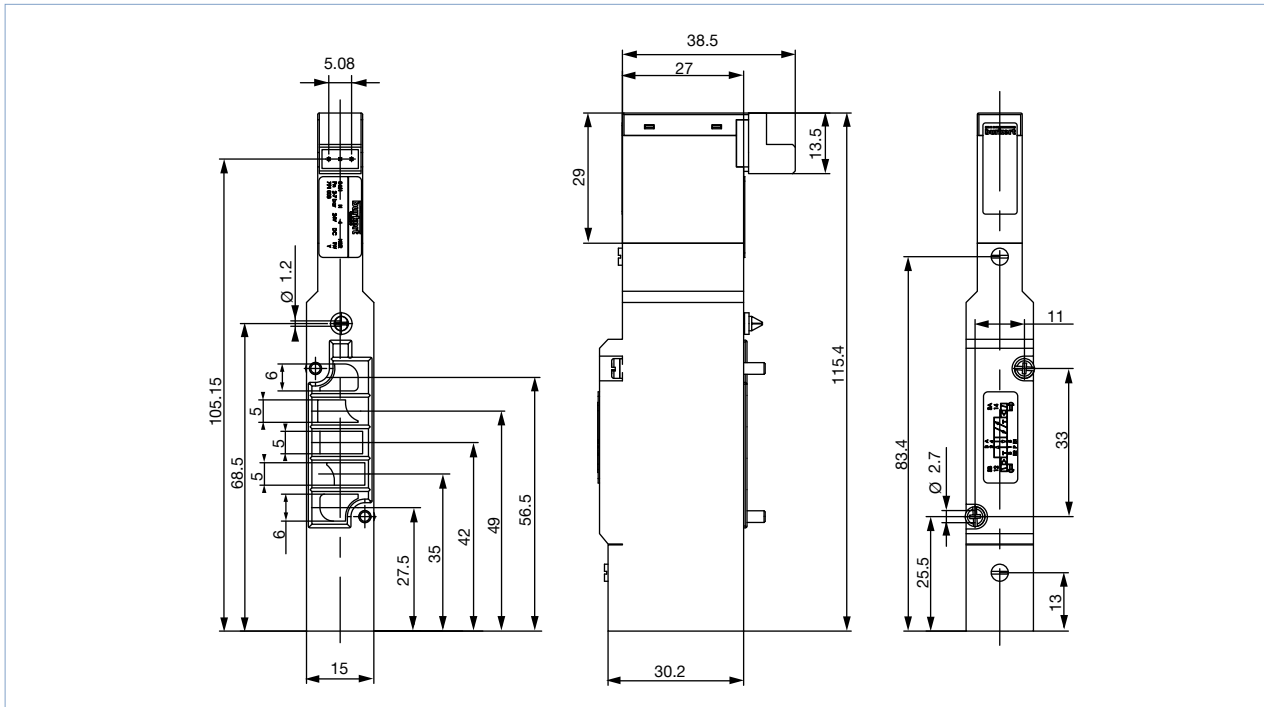
[Start Chemical Resistance Check](#)

## 4. Dimensions

### 4.1. 5/2 way impulse and 5/3 way version

**Note:**

Dimensions in mm



## 5. Ordering information

### 5.1. Bürkert eShop – Easy ordering and quick delivery



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### 5.2. Bürkert product filter

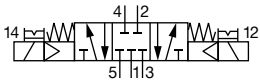
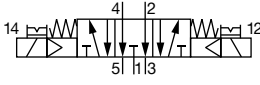
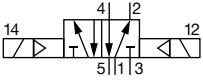


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## 5.3. Ordering chart

Circuit function	Orifice	Q <sub>Nn</sub> value air <sup>1.)</sup>	Pressure range <sup>2.)</sup>	Nominal power	Response times		Article no.
	[mm]	[l/min]	[bar]	[W]	Opening [ms]	Closing [ms]	
<b>Type: L, solenoid valve</b> 5/3 way With manual mode In middle position all ports locked Normally closed 	6	500	2.5...7.0	1	20	30	156767 𐀀
<b>Type: N, solenoid valve</b> 5/3 way With manual mode In middle position ports 2 and 4 exhausted 	6	500	2.5...7.0	1	15	50	156768 𐀀
<b>Type: Z, solenoid valve</b> 5/2 way Impulse version with 2 coils Normally open There is always one of the two outlet ports (2) or (4) pressurized when coil is activated. 	6	500	2.5...7.0	1	15	50	156766 𐀀

1.) Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference

2.) Overpressure to the atmospheric pressure

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