







## 5/2 way Solenoid Valve for pneumatics

- Compact design
- Low power consumption
- Fast response times
- Second connection shut-off function



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

### Can be combined with

- |   |  |
|---|--|
|  | <b>Type 8640</b> ▶<br>Customized Pneumatic Systems Solutions for the Processing Industries |
|  | <b>Type 8644</b> ▶<br>Remote Process Actuation Control System AirLINE                      |
|  | <b>Type MKRS</b> ▶<br>Redundancy valve block for safety related shut-off function          |
|  | <b>Type 8647</b> ▶<br>AirLINE SP – electro-pneumatic automation system                     |

### Type description

Type 6525 consists of a pilot flipper solenoid valve type 6144 and a pneumatic seat valve. The flipper action system enables the switching of high pressures with low power consumption and short switching times. All valves are equipped with manual emergency actuation as standard.

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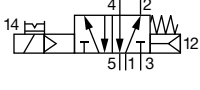
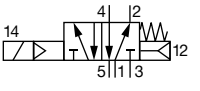
## 1. General technical data

Product properties	
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 4.
Material	
Seal	FKM, NBR and PUR
Body	PPS, PA
Orifice	DN 4.0
Circuit function	H Detailed information can be found in chapter "2. Circuit functions" on page 3.
Pneumatic modules	Type MP11, push-in connection Ø 6 mm
Manual override	Standard
Weight	21 g
Performance data	
Nominal operating mode	Continuous operation (100 % ED)
Switching frequency	Approx. 1000 c.p.m.
Switching times <sup>1)</sup>	Opening: < 10 ms Closing: < 10 ms
Electrical data	
Operating voltage	24 V DC <sup>2)</sup>
Voltage tolerance	± 10 %
Nominal power	0.8 W
Medium data	
Medium temperature	- 10 °C...+ 50 °C
Operating medium	Lubricated, oil-free, dry compressed air, neutral gases (5 µm filter recommended)
Process/Port connection & communication	
Port connection	Flange for MP11
Electrical connection	Rectangular plug with raster 5.08 mm
Approvals and certificates	
Degree of protection	IP40 with rectangular cable plug
Protection class	3 acc. to VDE 0580
Environment and installation	
Ambient temperature	- 10 °C...+ 55 °C
Installation position	As required, preferably with actuator upright
Mounting	With 2 screws M2 x 20

1.) Measurement acc. to ISO 12238

2.) 10 % residual ripple allowed

## 2. Circuit functions

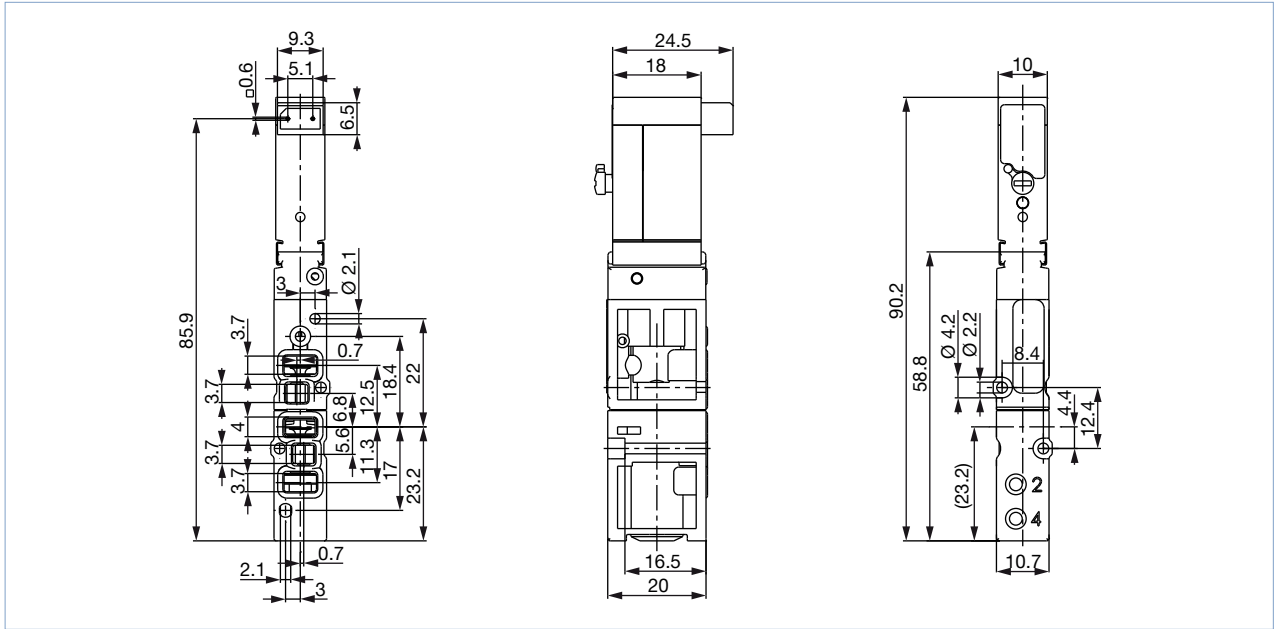
Circuit function	Description
	<b>Type: H, solenoid valve</b> 5/2 way Servo-controlled, pilot air and manual mode Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.
	<b>Type: H, solenoid valve</b> 5/2 way Servo-controlled There is always one of the two outlet ports (2) or (4) pressurized when coil is activated.

### 3. Dimensions

#### 3.1. Standard version 5/2 way

**Note:**

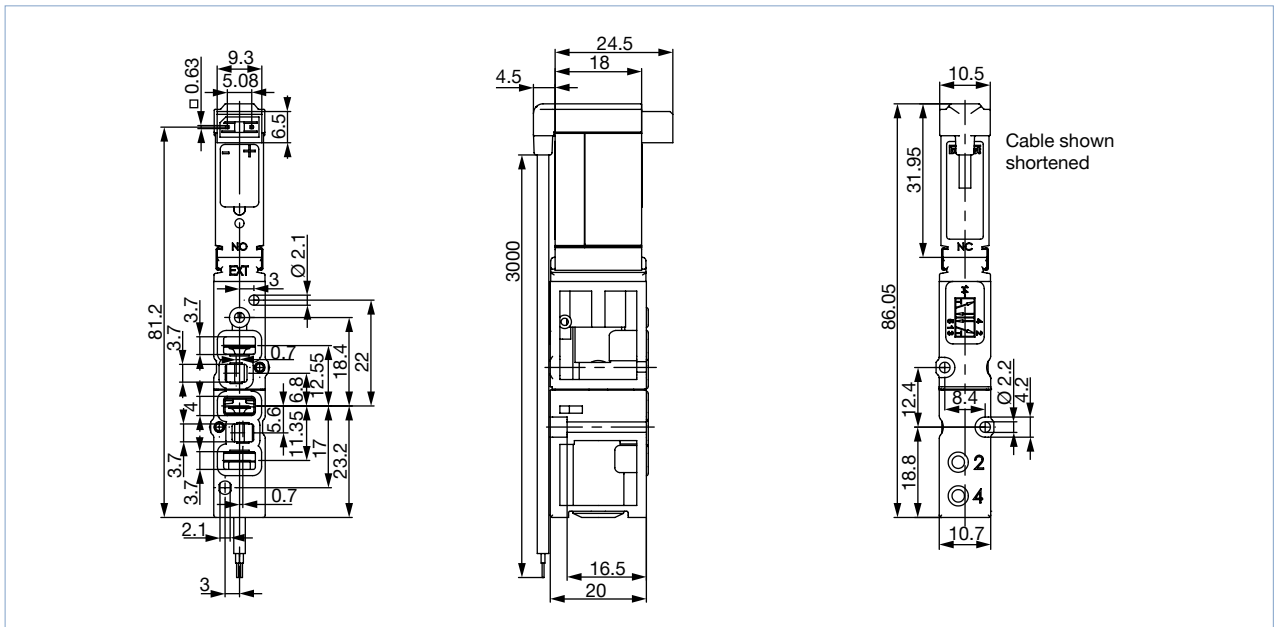
Dimensions in mm



#### 3.2. Second connection shut-off function 5/2 way

**Note:**

Dimensions in mm

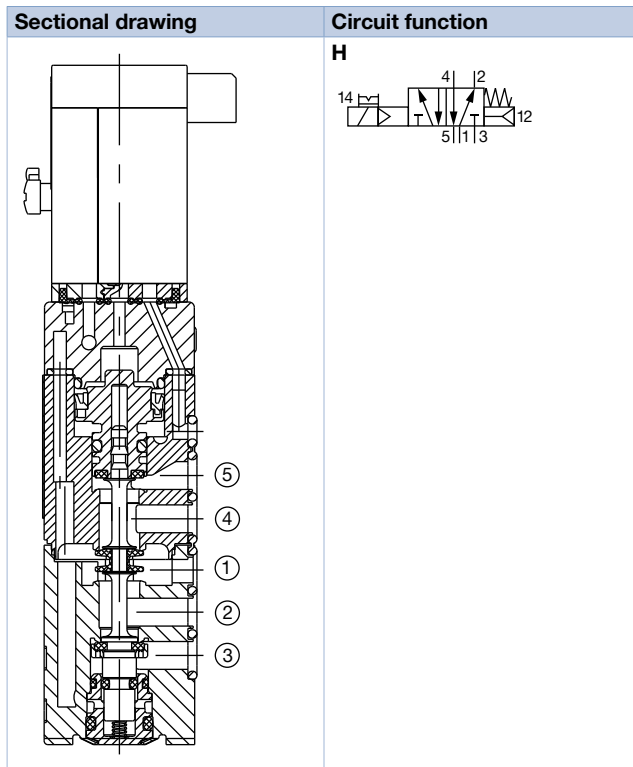


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## 4. Product design and assembly


### 4.1. Product assembly

Standard version 5/2 way



## 5. Ordering information

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




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### 5.2. Bürkert product filter



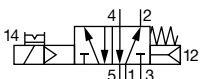


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## 5.3. Ordering chart standard version

Circuit function	Orifice	Q <sub>Nn</sub> value air [l/min] <sup>1.)</sup>	Pressure range [bar] <sup>2.)</sup>	Switching times		Voltage/ Frequency [V/Hz]	Article no.
	[mm]			Opening [ms]	Closing [ms]		
<b>5/2 way</b>							
<b>H, solenoid valve</b> 5/2 way Servo-controlled, pilot air and manual mode Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure	4	300	1...10 <sup>3.)</sup>	< 10	< 10	24 V DC <sup>4.)</sup>	186271 
			2.5...10	< 10	< 10	24 V DC <sup>4.)</sup>	179938 
							


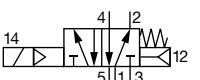
1.) Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference

2.) Measured as overpressure to the atmospheric pressure

3.) Version with auxiliary pilot air

4.) 10 % residual ripple allowed

## 5.4. Ordering chart second connection for shut-off function

Circuit function	Orifice	Q <sub>Nn</sub> value air [l/min] <sup>1.)</sup>	Pressure range [bar] <sup>2.)</sup>	Switching times		Voltage/ Frequency [V/Hz]	Article no.
	[mm]			Opening [ms]	Closing [ms]		
<b>5/2 way, without manual override</b>							
<b>H, solenoid valve</b> 5/2 way Servo-controlled There is always one of the two outlet ports (2) or (4) pressurized when coil is activated	4	300	1...10 <sup>3.)</sup>	< 10	< 10	24 V DC <sup>4.)</sup>	on request
			2.5...10	< 10	< 10	24 V DC <sup>4.)</sup>	285544 
							











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

2.) Measured as overpressure to the atmospheric pressure

3.) Version with auxiliary pilot air

4.) 10 % residual ripple allowed

## 5.5. Ordering chart for accessories

Accessories	Version	Features	Article no.
Rectangular cable plug for 6524 single valve	Raster 5.08 mm	With 3 m cable, 2-pins	133486 
		With 300 mm flying leads, 2-pins	644068 
		With 2 single contacts	644067 
Covering plate for 5/2 way valve position	Complete	For 1 unused valve position	650373 
Pneumatic connector module	Left	G ¼	144750 
	Right	G ¼	144753 
Pneumatic basic module MP11, 2 valves wide	Push-in connection Ø 6 mm	Without check valve	144903 
		With check valve in R and S	144906 
Pneumatic basic module MP11, 8 valves wide	Push-in connection Ø 6 mm	Without check valve	144912 
		With check valve in R and S	144915 

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