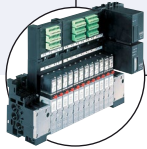


## 3/2 way and 2 × 3/2 way Solenoid Valve for pneumatics

- Compact design
- Single and manifold mounting
- Low power consumption
- Fast response times
- Second connection shut-off function

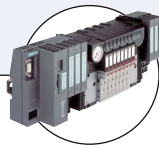
Type 6524 can be combined with...



**Type 8640**  
Valve island



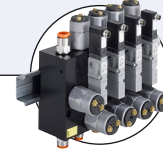
**Type 2031**  
Diaphragm valve



**Type 8644**  
Valve island



**Type 0044**  
Cylinder



**Type MKRS**  
Redundancy bloc

The Type 6524 consists of the pilot flipper solenoid valve Type 6144 and a pneumatic seat valve. The flipper principle allows switching of high pressures together with low power consumption and fast response times. All valves are equipped with manual override as a standard.

The 2 × 3/2 way valve version is the combination of two pilot flipper solenoid valves Type 6144 and a pneumatic seat valve.

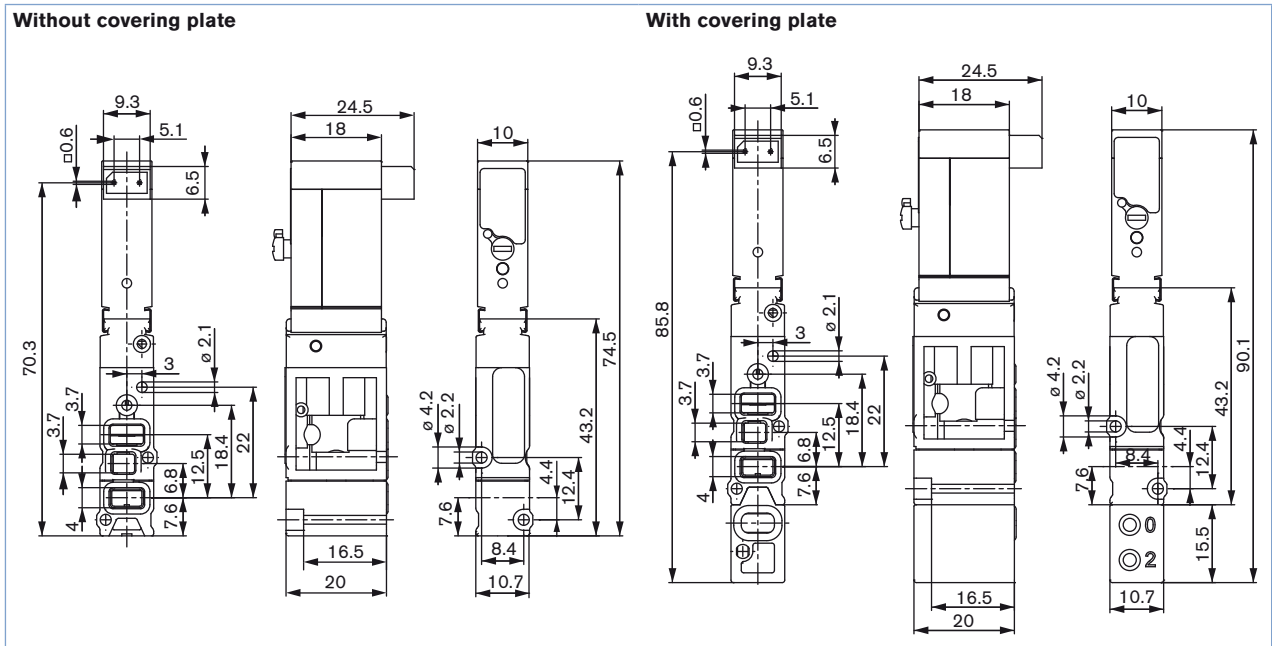
The valve is also available with a second connection (pressed cable), whereby a safety-related shut-off function is realized

Technical data	3/2 way valve	2 × 3/2 way valve
<b>Orifice</b>	DN4.0	
<b>Body material</b>	PPS, PA	
<b>Seal material</b>	FKM, NBR	
<b>Medium</b>	Lubricated, oilfree, dry compressed air; neutral gases (5 µm filter recommended)	
<b>Medium temperature</b>	- 10 ... + 50 °C	
<b>Ambient temperature</b>	- 10 ... + 55 °C	
<b>Manual override</b>	Standard	
<b>Port connection</b>	Flange for MP11	
<b>Pneumatic module</b>	Type MP11 with M5, M7, push-in connection Ø 6 mm	
<b>Voltage tolerance</b>	± 10%	
<b>Cycle rate</b>	approx. 1000 c.p.m.	
<b>Voltage</b>	24 V DC *	
<b>Nominal power</b>	0.8 W	2 × 0.8 W
<b>Duty cycle</b>	Continuous operation (100% ED)	
<b>Electrical connection on valve</b>	Rectangular plug with 2 pin raster 5.08 mm	Rectangular plug with 3 pin raster 2.54 mm
<b>Type of protection</b>	IP40 with rectangular plug	
<b>Protection class</b>	3 acc. to VDE 0580	
<b>Weight</b>	20 g	40 g
<b>Mounting</b>	with 2 screws M2 x 20	with 2 screws M2 x 28
<b>Installation</b>	As required, preferably with actuator upright	

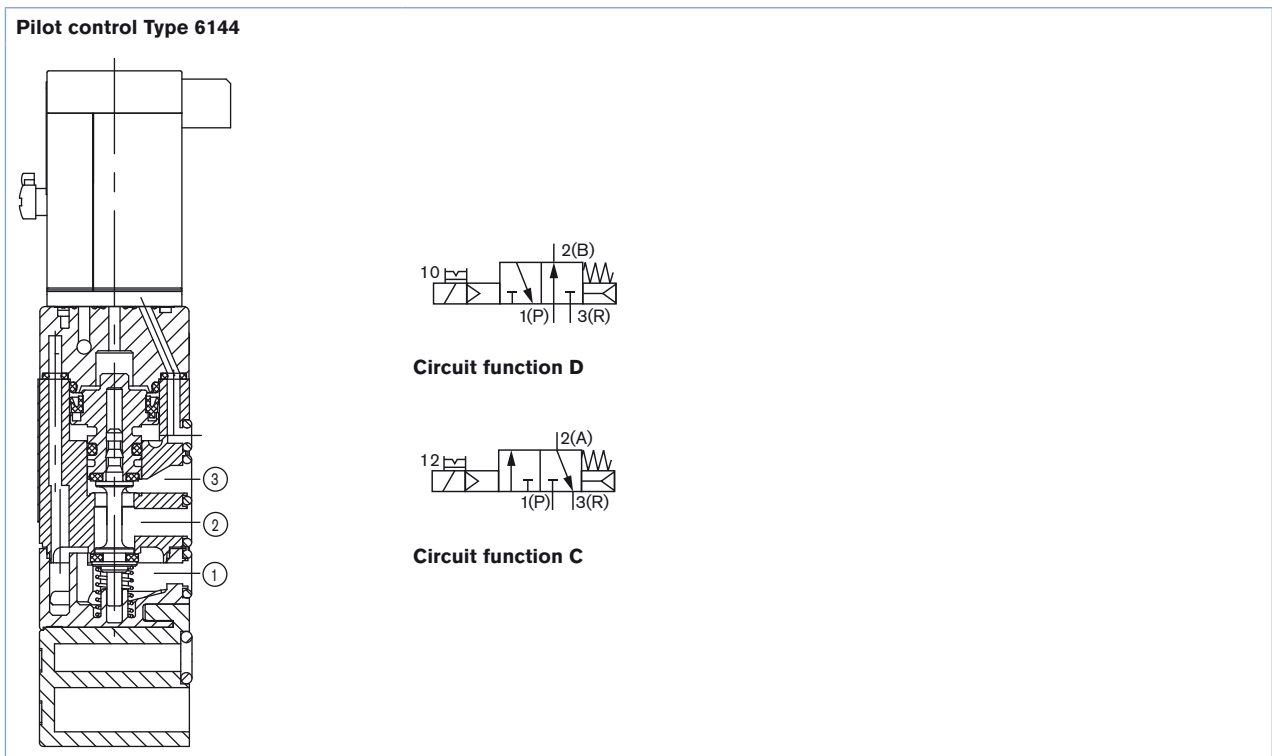
\* 10% residual ripple allowed

<b>Response times [ms]</b>	Measurement acc. to ISO 12238
Opening	< 10 ms
Closing	< 10 ms

Dimensions [mm] 3/2 way solenoid valve - Standard version

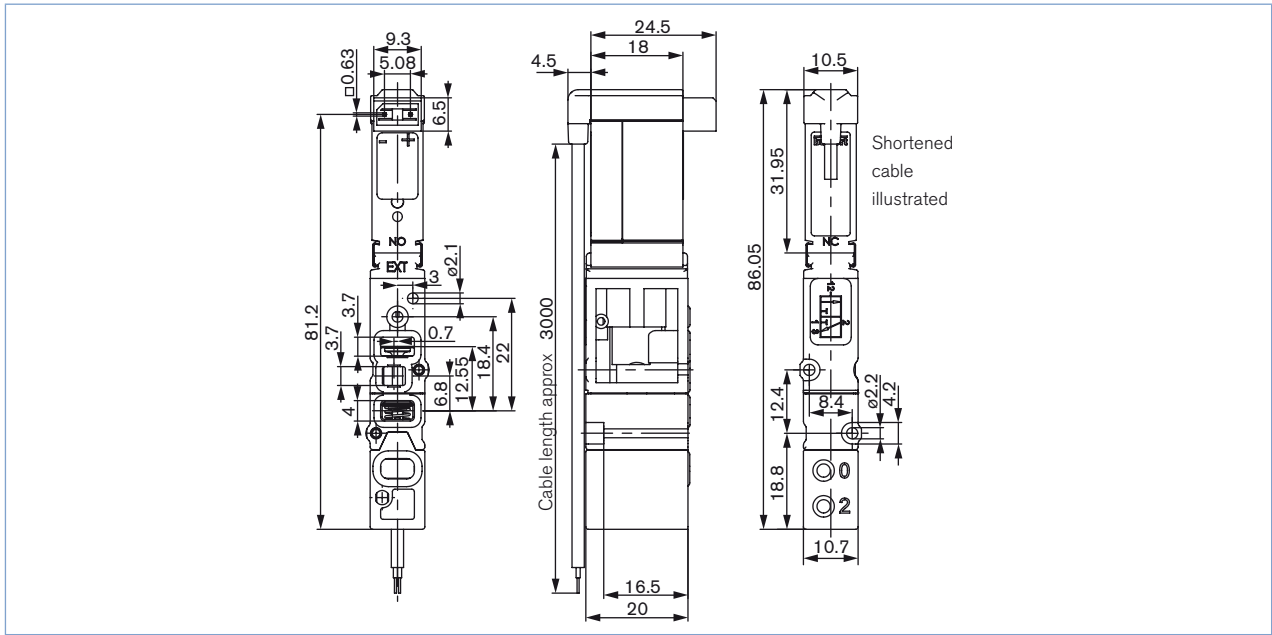


Sectional drawing 3/2 way solenoid valve - Standard version

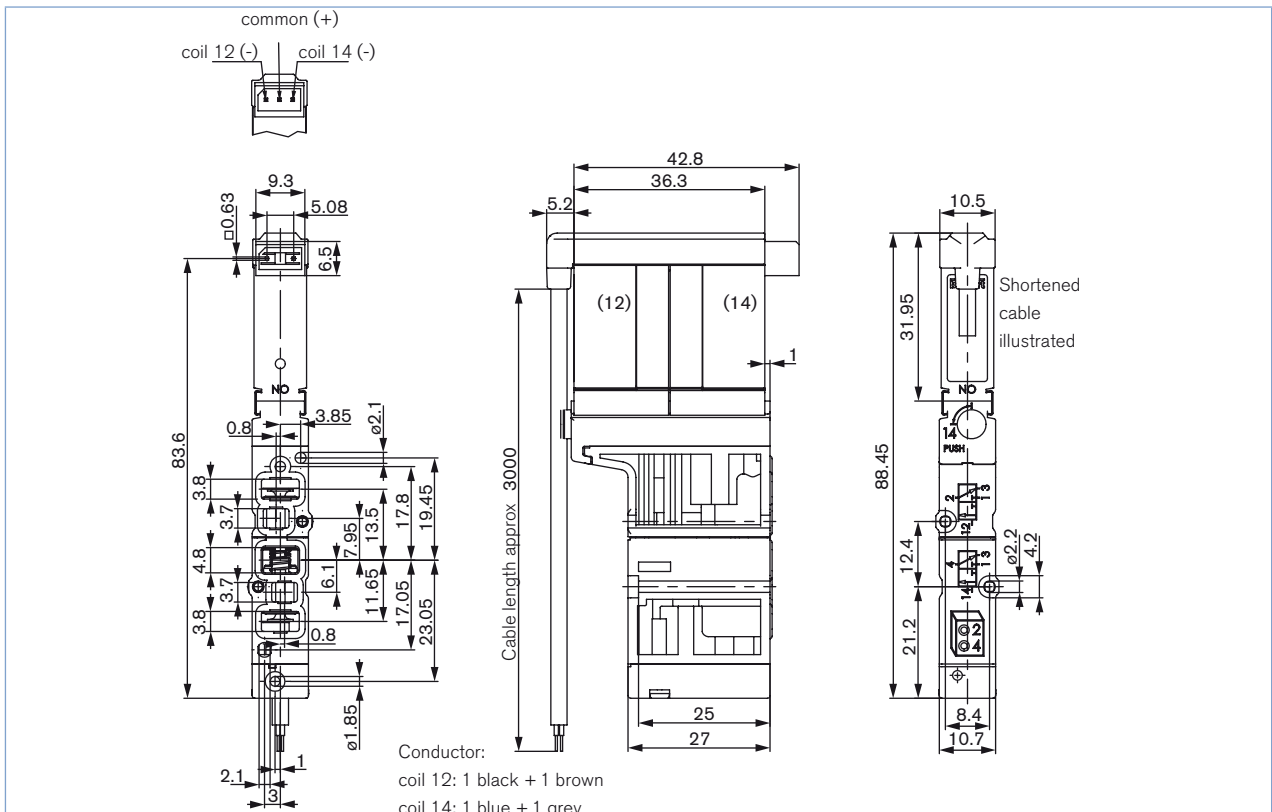




Dimensions [mm] 3/2 way solenoid valve - Second connection shut-off function

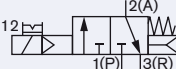



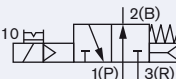



Dimensions [mm] 2 x 3/2 way solenoid valve - Second connection shut-off function







## Ordering chart for valves - Standard version

## 3/2 way solenoid valve

Circuit function	Orifice [mm]	$Q_{Nn}$ value air [l/min] <sup>2)</sup>	Pressure range [bar] <sup>3)</sup>	Voltage/frequency [V/Hz]	Article no.
<b>C</b> 3/2 way valve 	4	300	Vac...10 <sup>1)</sup>	24 V DC *	186258 
			1 ... 10	24 V DC *	186257 
			2.5 ... 10	24 V DC *	184043 
<b>D</b> 3/2 way valve 	4	300	2.5 ... 10	24 V DC *	184400 

\* 10% residual ripple allowed

## 2 × 3/2 way solenoid valve

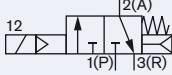

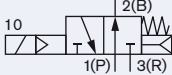
Circuit function	Orifice [mm]	$Q_{Nn}$ value air [l/min] <sup>2)</sup>	Pressure range [bar] <sup>3)</sup>	Voltage/frequency [V/Hz]	Integrated power savings electronics	Article no.
<b>C</b> 2 × 3/2 way valve 	4	300	Vac...10 <sup>1)</sup>	24 V DC *	Yes <sup>4)</sup>	186259 
			2.5 ... 10	24 V DC *	Yes <sup>4)</sup>	186260 
			2.5 ... 10	24 V DC *	No	204710 

\* 10% residual ripple allowed

<sup>1)</sup> Version with auxiliary pilot air<sup>2)</sup> Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference<sup>3)</sup> Measured as overpressure to the atmospheric pressure<sup>4)</sup> Applicable on valve island 8640, AirLine system 8644 or valve blocks



## Ordering chart for valves - Second connection shut-off function

## 3/2 way solenoid valve, without manual override

Circuit function	Orifice [mm]	$Q_{v0}$ value air [l/min] <sup>2)</sup>	Pressure range [bar] <sup>3)</sup>	Voltage/frequency [V/Hz]	Article no.
<b>C</b> 3/2 way valve 	4	300	Vac...10 <sup>1)</sup>	24 V DC *	On request
			1 ... 10	24 V DC *	On request
			2.5 ... 10	24 V DC *	285545 
<b>D</b> 3/2 way valve 	4	300	2.5 ... 10	24 V DC *	On request

\* 10% residual ripple allowed






















## 2 × 3/2 way solenoid valve, without manual override

Circuit function	Orifice [mm]	$Q_{v0}$ value air [l/min] <sup>2)</sup>	Pressure range [bar] <sup>3)</sup>	Voltage/frequency [V/Hz]	Integrated power savings electronics	Article no.
<b>C</b> 2 × 3/2 way valve 	4	300	Vac...10 <sup>1)</sup>	24 V DC *	Yes <sup>4)</sup>	On request
			2.5 ... 10	24 V DC *	Yes <sup>4)</sup>	285547 
			2.5 ... 10	24 V DC *	No	On request

\* 10% residual ripple allowed

<sup>1)</sup> Version with auxiliary pilot air<sup>2)</sup> Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference<sup>3)</sup> Measured as overpressure to the atmospheric pressure<sup>4)</sup> Applicable on valve island 8640, AirLine system 8644 or valve blocks

## Ordering chart for accessories

Accessory	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 
Covering plate for 2 x 3/2 way valve position		for 1 unused valve position	661092 
Pneumatic connector module	Left	G 1/4	144750 
		NPT 1/4	144751 
	Right	G 1/4	144753 
		NPT 1/4	144754 
Pneumatic basic module MP11, 2 valves wide	Push-in connection Ø 6 mm	without check valve	144903 
		without check valve for 2 x 3/2 way valve	170261 
		with check valve in R+S for 2 x 3/2 way valve	170266 
	Connection M7	without check valve	144905 
		without check valve for 2 x 3/2 way valve	170263 
		with check valve in R+S for 2 x 3/2 way valve	170276 
Pneumatic basic module MP11, 8 valves wide	Push-in connection Ø 6 mm	without check valve	144912 
		without check valve for 2 x 3/2 way valve	170279 
		with check valve in R+S for 2 x 3/2 way valve	170285 
	Connection M7	without check valve	144914 
		without check valve for 2 x 3/2 way valve	170282 
		with check valve in R+S for 2 x 3/2 way valve	170287 

To find your nearest Bürkert facility, click on the orange box → [www.burkert.com](http://www.burkert.com)In case of special application conditions,  
please consult for advice.Subject to alteration  
© Christian Bürkert GmbH & Co. KG

1801/11\_EU-en\_00891919