





## AirLINE and AirLINE Quick – electrical/pneumatic Automation System

- Fully compatible with Rockwell Point I/O System
- Combination of Fieldbus, pilot valves and I/O modules
- Higher flexibility in the control cabinet with AirLINE Quick
- Compact design
- High flow rate value

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

### Can be combined with

	<b>Type 2000</b> ▶ Pneumatically operated 2/2 way angle seat valve CLASSIC
	<b>Type MKRS</b> ▶ Redundancy valve block for safety related shut-off function
	<b>Type 0498</b> ▶ Double pilot controlled check valve for realising 5/3 way function with all ports blocked
	<b>Type 8614</b> ▶ Pneumatic control cabinet solutions for hygienic process environments

### Type description

The AirLINE System integrates high performance solenoid pilot valves, remote electronic I/O and fieldbus communication into a process actuation and control system that is both compact and extremely flexible. Its modular design allows fully customized, pre-mounted and tested solutions to exactly meet all application needs including the integration of a local Mini PLC. Due to the full electronic and mechanical integration, the valve block can be added without the need of any tools or wiring.

**8644 Rockwell: available until September 2023**

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## 1. General Technical Data

Pilot valves	Type 0460, Type 6524, Type 6525
<b>Product properties</b>	
Dimensions	Detailed information can be found in chapter "3. Dimensions" on page 7.
Width/station	11 mm
Module Types	4x <sup>1.)</sup>
Max. number of modules	Depending on application
Max. number of valves	64 (by use of Type 0460: 32)
Fieldbus Type	DeviceNet, EtherNet/IP, PROFIBUS DP, ControlNet
Electrical modules	Rockwell Point I/O
Circuit function	C (3/2 way) D (3/2 way) H (5/2 way) Z (5/2 way) impulse L (5/3 way) in middle position all ports locked N (5/3 way) in middle position all ports exhausted
<b>Electrical data</b>	
Operating voltage	24 V DC
Voltage tolerance	+20 %/- 15 % (by use of Type 0461: ± 10 %)
Residual ripple (at DC)	1 Vss
Nominal power per valve	1 W (0.5 W nominal power acc. to 120 ms)
Rated current per valve	43 mA (28 mA hold current after 120 ms) 41 mA (by use of Type 0460)
<b>Performance data</b>	
Flow (Q <sub>Nn</sub> value air)	310 l/min <sup>1.)</sup>
Pressure range	Vac. up to 10 bar
<b>Approvals and Certificates</b>	
Approvals	ATEX, Zone 2 (BVS 20 ATEX E 031 U) IECEX, Zone 2 (IECEX BVS 20.0024 U)
Degree of protection	IP20, IP65 in closed field housing
<b>Environment and installation</b>	
Ambient temperature	0...+55 °C (by use of Type 0460: 0...+50 °C)
Storage temperature	-20...+60 °C

1.) Integrated check valve and P-Shut off valve are optional)

### 1.1. 11 mm width/station: Solenoid valves Type 6524 and Type 6525

**Note:**

- The solenoid valve Types 6524 and 6525 consist of a 6144 flipper pilot valve and a pneumatic seat valve. The principle allows switching of high pressures together with low power consumption and fast response times. The pilot valves are equipped with manual override as a standard.
- Detailed information about ordering information see [“11 mm width/station: Solenoid valve Type 6524 and Type 6525” on page 10.](#)
- Detailed information about further valve options see [“4.4. Ordering chart accessories” on page 12.](#)



Circuit function	3/2 way valve	2 × 3/2 way valve
<b>Product properties</b>		
<b>Material</b>		
Body	PA (Polyamide)	
Seal	FPM, NBR and PUR	
Manual override	Standard	
Pneumatic modules	With push-in connection diameter 6 mm, D¼	
<b>Performance data</b>		
Pressure data	Overpressure with respect to atmospheric pressure	
Flow (Q <sub>Nn</sub> value air)	Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference	
Nominal operating mode	Continuous operation (100 % ED)	
Switching times	Measured according to ISO 12238	
<b>Electrical data</b>		
Operating voltage	24 V DC (10 % residual ripple allowed)	
Nominal power	0.8 W	2 × 0.8 W with reduction of power
<b>Medium data</b>		
Operating medium	Lubricated and non-lubricated dry compressed air; neutral gases (5µm filter recommended)	
<b>Process/Port connection &amp; communication</b>		
Port connection size	Flange	
Electrical connection (on valve)	With 2 screws M2 × 20	With 2 screws M2 × 28
<b>Environment and installation</b>		
Installation position	As required, preferably with actuator upright	
Assembly conditions	With 2 screws M2 × 20	With 2 screws M2 × 28

## 1.2. 11 mm width/station: Pilot valve Type 0460

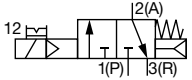
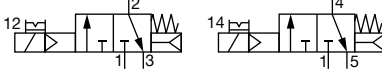
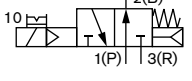
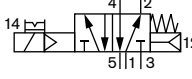
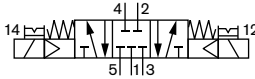
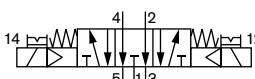
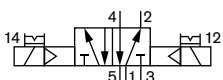
**Note:**

- The solenoid valve Type 0460 consists of a pneumatic valve body fitted with a double coil pilot valve. The 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.
- Detailed information about ordering information see [“11 mm width/station: Pilot valve Type 0460” on page 11.](#)
- Detailed information about further valve options see [“4.4. Ordering chart accessories” on page 12.](#)



Product properties	
<b>Material</b>	
Body	Aluminium
Seal	NBR
Manual override	Standard
Pneumatic modules	With push-in connection diameter 6 mm, D $\frac{1}{4}$
<b>Performance data</b>	
Pressure data	Overpressure to the atmospheric pressure
Flow (Q <sub>Nn</sub> val <sub>ue</sub> air)	Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference
Switching times	Measured according to ISO 12238
<b>Electrical data</b>	
Operating voltage	24 V DC (10 % residual ripple allowed)
<b>Medium data</b>	
Operating medium	Lubricated and non-lubricated dry compressed air; Neutral gases (5µm filter recommended)
<b>Process/Port connection &amp; communication</b>	
Port connection size	Flange
Electrical connection (on valve)	Rectangular plug

## 2. Circuit functions

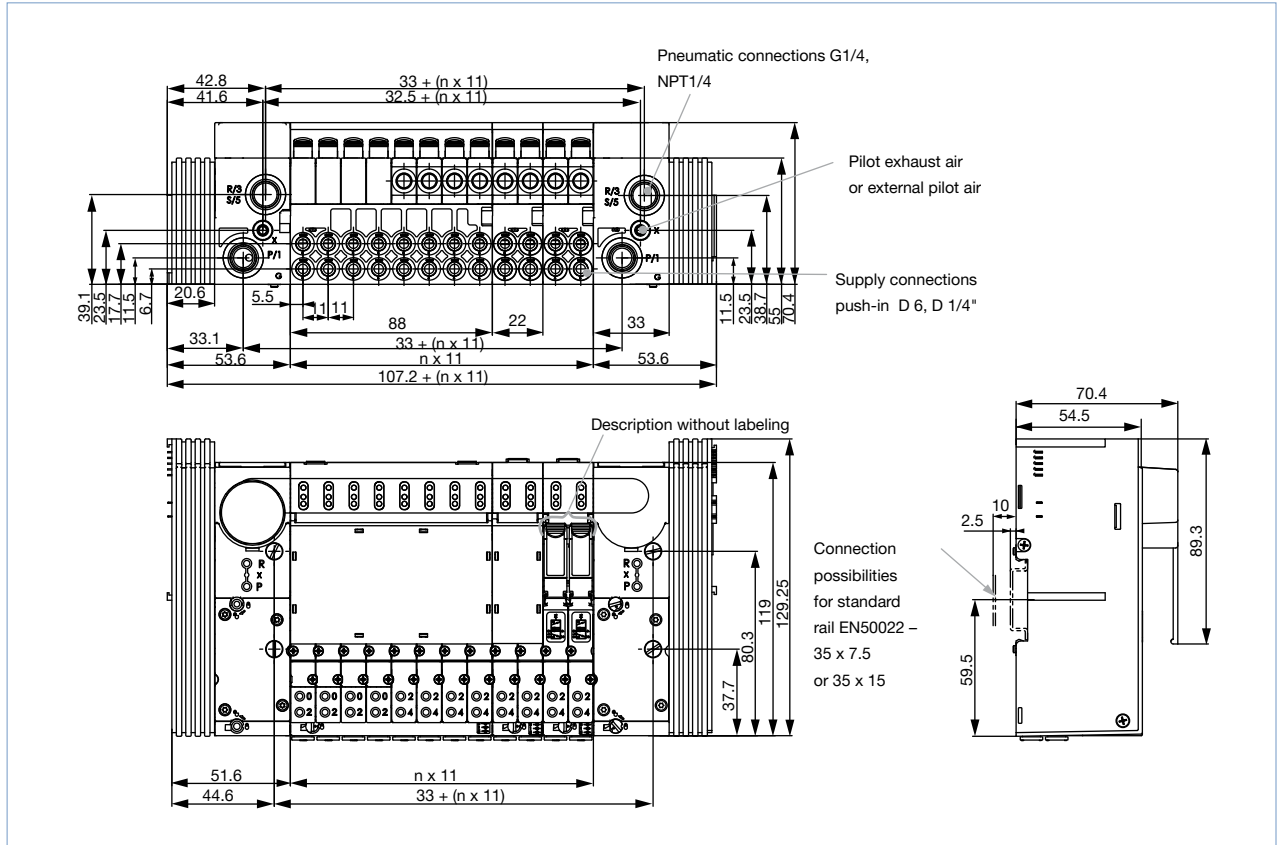
Circuit Function	Description
	<b>Type: C, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally closed
	<b>Type: C, solenoid valve</b> 2 x 3/2 way Servo-controlled, with manual mode Normally closed
	<b>Type: D, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally open
	<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: 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 There is always one of the two outlet ports (2) or (4) pressurized when coil is activated.
	<b>Type: Z, solenoid valve</b> 5/2 way Impulse version with 2 coils and manual mode Normally open Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.

### 3. Dimensions

#### 3.1. 11 mm width/station: Solenoid valve Type 6524 and Type 6525

**Note:**

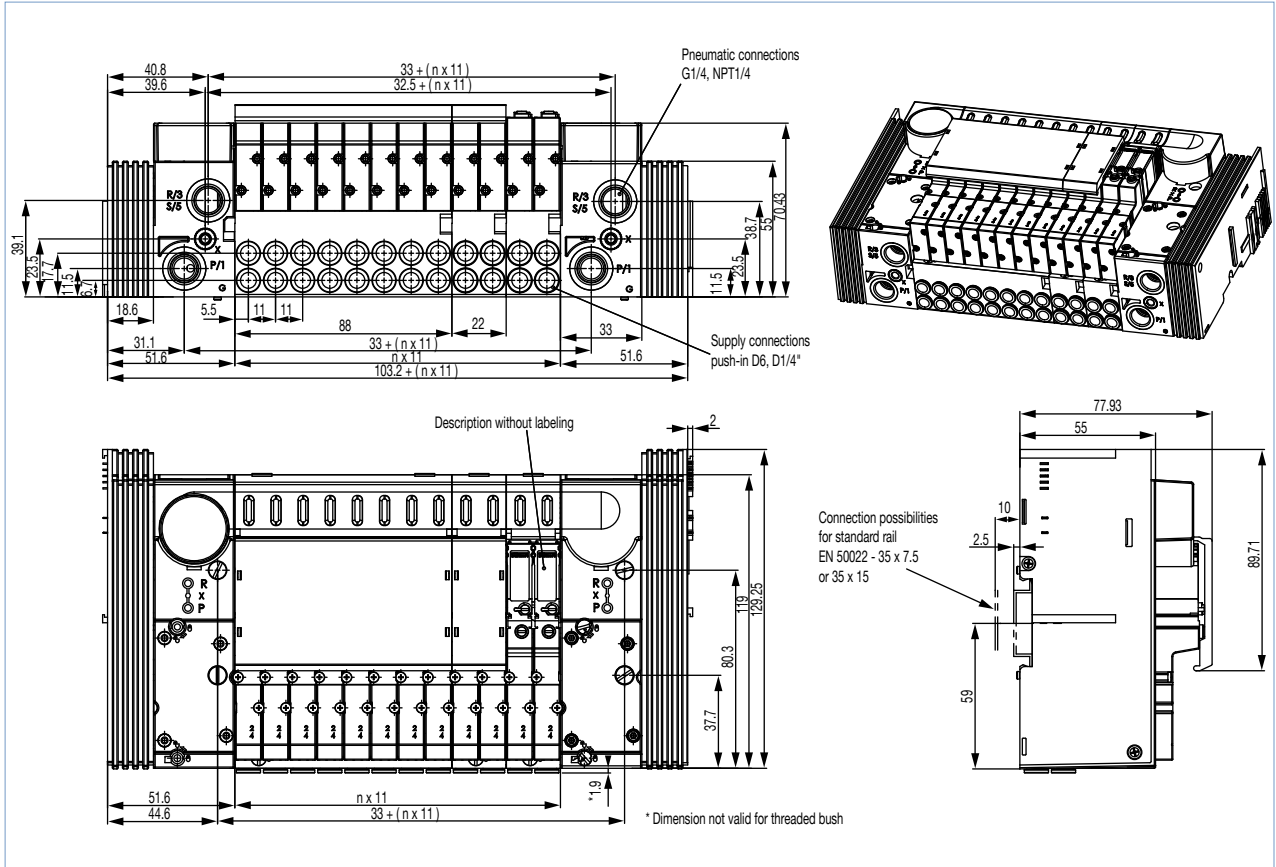
- Dimensions in mm
- n = number of valves



3.2. 11 mm width/station: Solenoid valve with Type 6524 2 x 3/2 way valve

Note:

- Dimensions in mm
- n = number of valves

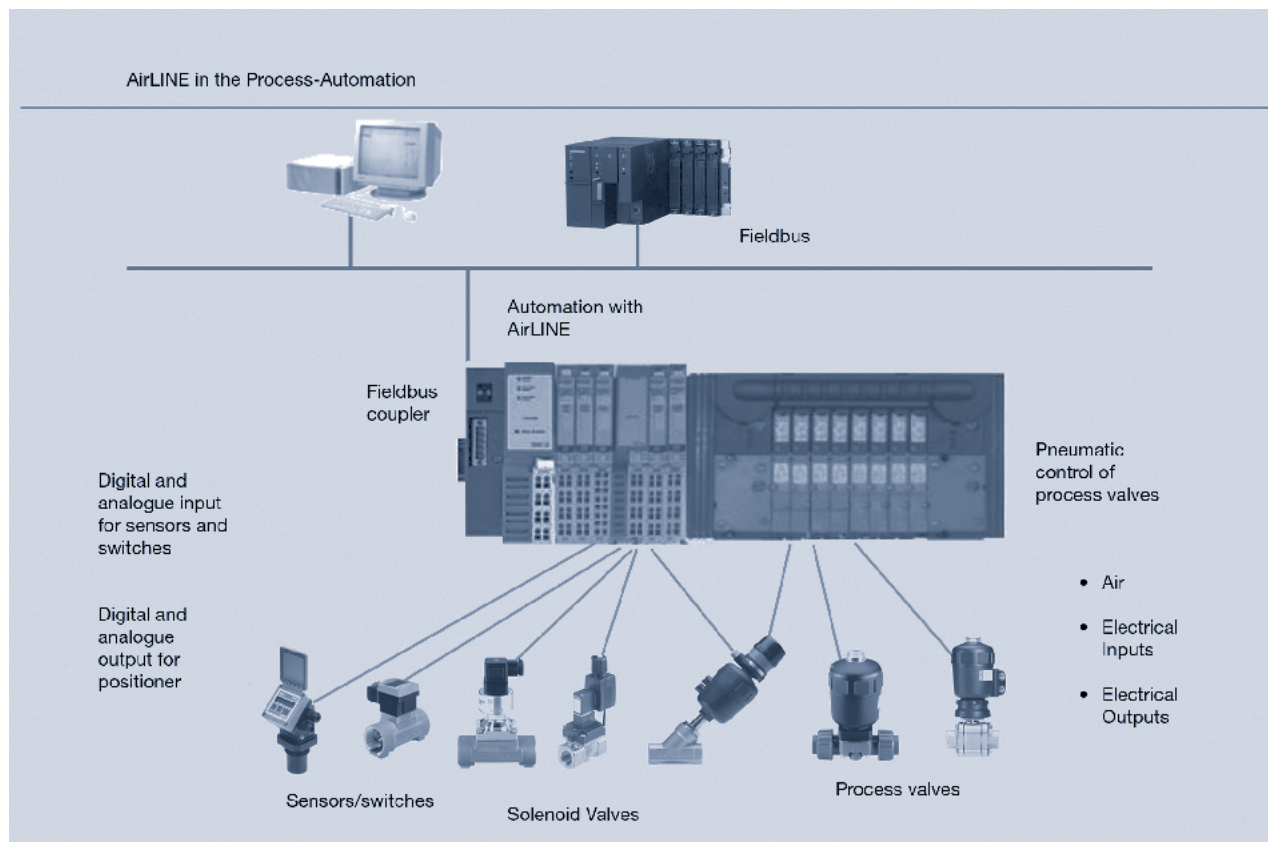


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### 3.3. Example configuration

#### AirLINE in the Process-Automation



## 4. Ordering information

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



#### Bürkert eShop – Easy ordering and fast 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.

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### 4.2. 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.

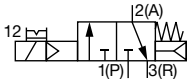
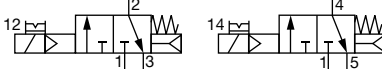
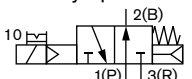
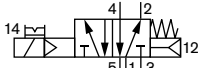
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### 4.3. Ordering chart spare valves

11 mm width/station: Solenoid valve Type 6524 and Type 6525

**Note:**

Detailed information about product version see “1.1. 11 mm width/station: Solenoid valves Type 6524 and Type 6525” on page 4.

Circuit function	Nominal diameter [mm]	Q <sub>Nn</sub> -value <sup>1.)</sup> [l/min]	Pressure range [bar]	Switching times		Voltage/ Frequency <sup>3.)</sup> [V/Hz]	Article no.
				Opening [ms]	Closing [ms]		
<b>Type: C, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally closed 	4	300	Vac. 7	15	20	24 V DC	186258
			1...10 <sup>2.)</sup>				186257
			2.5...10				28
<b>Type: C, solenoid valve</b> 2 x 3/2 way Servo-controlled, with manual mode Normally closed 	4	300	1...10 <sup>2.)</sup>	12	20	24 V DC	186259
			2.5...10				186260
<b>Type: D, solenoid valve</b> 3/2 way Servo-controlled, with manual mode Normally open 	–	–	2.5...10	15	28	24 V DC	184400
<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 	4	300	1...10 <sup>2.)</sup>	15	20	24 V DC	186271
			2.5...10				28

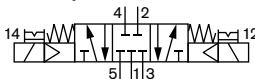
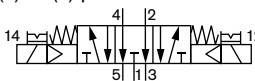
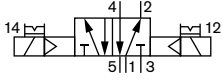
- 1.) With integrated HotSwap and/or non-return function, the flow rate reduces
- 2.) Version with auxiliary control air
- 3.) 10 % residual ripple allowed
- 4.) Version with integrated power reduction

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11 mm width/station: Pilot valve Type 0460

**Note:**

Detailed information about product version see “1.2. 11 mm width/station: Pilot valve Type 0460” on page 5.

Circuit function	Nominal diameter	Q <sub>Nn</sub> -value <sup>1.)</sup>	Pressure range	Switching times		Voltage/ Frequency <sup>3.)</sup>	Article no.
	[mm]	[l/min]		Opening [ms]	Closing [ms]		
<b>Type: L, solenoid valve</b> 5/3 way With manual mode In middle position all ports locked Normally closed 	2.5	200	2...7	1	15	20	154184
<b>Type: N, solenoid valve</b> 5/3 way With manual mode In middle position ports 2 and 4 exhausted There is always one of the two outlet ports (2) or (4) pressurized when coil is activated. 	2.5	200	2...7	1	15	20	154184
<b>Type: Z, solenoid valve</b> 5/2 way Impulse version with 2 coils and manual mode Normally open Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	2.5	200	2...7	1	15	20	154185

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#### 4.4. Ordering chart accessories

##### Covering plates

**Note:**

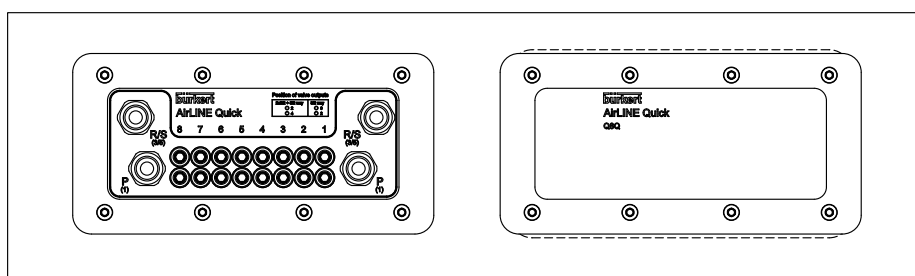
When all the valve connections in a basic valve unit module are not used, then these connections should be covered by the appropriate covering plate for full efficiency.

Covering plates	Article no.
Covering plate for solenoid valve Type 6524/6525	650373
Covering plate for solenoid valve Type 6524 2 x 3/2 way valve	661092
Covering plate for solenoid valve Type 6526/6527	653765

##### Blanking plates

**Note:**

A blanking plate is used to cover an existing flange for AirLINE Quick on the cabinet wall or on the cabinet floor.



Material	Amount of valve slots	Article no.
Aluminium anodized	8	246933
	12	246929
	16	246925
	16 <sup>1.)</sup>	246935
	24	246927
	24 <sup>1.)</sup>	246931
Stainless steel 1.4301	8	246934
	12	246930
	16	246926
	16 <sup>1.)</sup>	246936
	24	246928
	24 <sup>1.)</sup>	246932

1.) With intermediate pneumatic supply module

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