



## AirLINE - the valve island optimised for process automation

- Compact design
- Easy diagnostics by LC display
- Process reliability through pneumatic functions
- Optimised for installation at the bottom of the control cabinet

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

### Can be combined with

	<b>Type 8905</b> Online Analysis System	▶
	<b>Type ME43</b> Fieldbus gateway	▶
	<b>Type 8098</b> FLOWave SAW flow-meter	▶
	<b>Type 2012</b> Pneumatically operated 2/2 way globe valve CLASSIC	▶
	<b>Type 8695</b> Control head for de-centralised automation of ELEMENT process valves	▶
	<b>Type 0498</b> Double pilot controlled check valve for realising 5/3 way function with all ports blocked	▶

### Type description

The valve island Type 8652 AirLINE has been especially developed for applications in process automation. New diagnostic functions can be visualised at the LC display, both in clear text as well as symbols. This makes it easy to relate to the shown messages and helps to save time during start-up and maintenance. Furthermore the diagnostic message is also available in the control. This therefore enables a fast overview of the plant status. The hardware is optimised for installation at the bottom of the control cabinet. Of course it is also possible to fix the AirLINE to top hat rail. Moreover, key pneumatic functions ensure increased process reliability. For instance, the non-return valves in the exhaust air ducts make sure there is no unplanned actuation due to pressure peaks.

## Table of contents

<b>1. General technical data</b>	<b>3</b>
<b>2. Circuit functions</b>	<b>4</b>
<b>3. Dimensions</b>	<b>5</b>
<b>4. Product installation</b>	<b>7</b>
4.1. Installation instructions .....	7
Installation position of the valve island in the control cabinet .....	7
<b>5. Ordering information</b>	<b>8</b>
5.1. Bürkert eShop – Easy ordering and quick delivery .....	8
5.2. Bürkert product filter .....	8
5.3. Replacement valves .....	8
Standard version .....	8
Second connection for shutdown .....	9

## 1. General technical data

### Product characteristics

#### Materials

Body	PA (polyamide)
Seal	NBR and PUR
Width/station	11 mm
Pressure range	Vac. to 10 bar
Max. number of modules	6
Number of valve slots per module	4 valve slots (max. 8 valve functions)
Max. number of valve functions	48
Degree of protection	IP20
Manual override	Available and lockable

### Electrical data

Operating voltage	24 V DC
Voltage tolerance	± 10 %
Nominal power per valve	0.7 W (0.175 W after power reduction)
Nominal current per valve	29 mA (10 mA after power reduction)

### Performance data

#### Valve island

Flow	310 l/min <sup>1)</sup>
------	-------------------------

#### Pilot valve Type 6534

Flow rate $Q_{Nn}$ value air	Measurement at +20 °C, 6 bar pressure at the valve inlet and 1 bar pressure difference
Switching times	Measured according to ISO 12238

### Media data

Media	Compressed air oiled, oil-free, dry; neutral gases (5 µm filter recommended)
Compressed air quality	ISO 8573-1:2010, class 7.4.4

### Product connections

#### Valve island

Working port	Plug-in coupling diameter 6 mm, D $\frac{1}{4}$ "
Air supply connection	Plug-in coupling diameter 10 mm, D $\frac{3}{8}$ "

### Communication interfaces

Communication	PROFIBUS DP Industrial Ethernet (PROFINET I/O, EtherNet IP, Modbus TCP, EtherCAT) CANopen / bÜS <sup>2)</sup> (for networking with Bürkert devices)
Communication module	<b>Type ME43 ▶</b>

### Environment and installation

Ambient temperature	- 10...+55 °C
Storage temperature	- 10...+60 °C
Installation position	Any

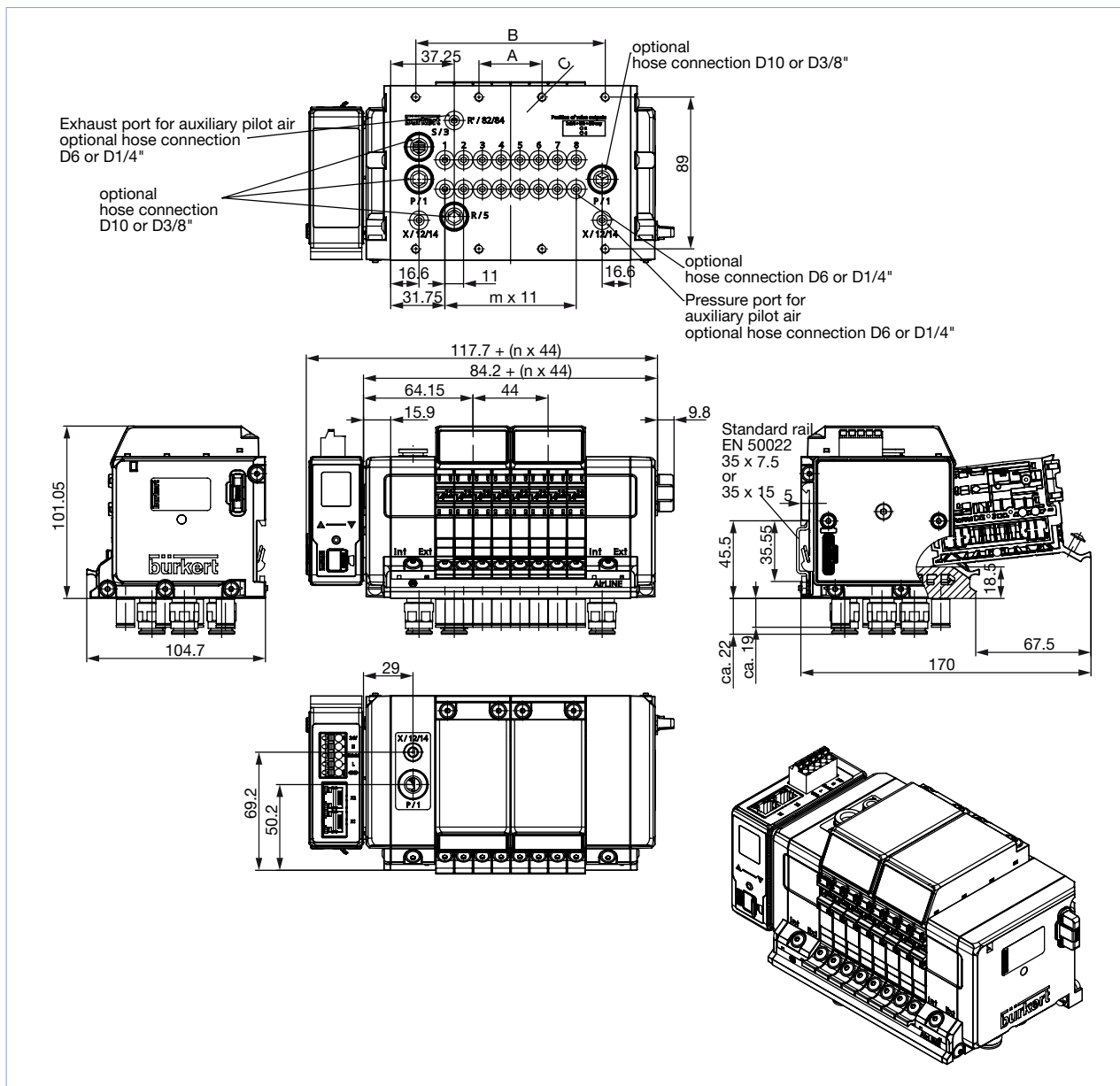
1.) Maximum flow rate depending on the valve function – see table „2. Circuit functions“ on page 4.

2.) Start-up requires the software Bürkert Communicator ▶ as well as the associated USB-bÜS interface Set 1, Article no. 772426 ☐.

## 2. Circuit functions

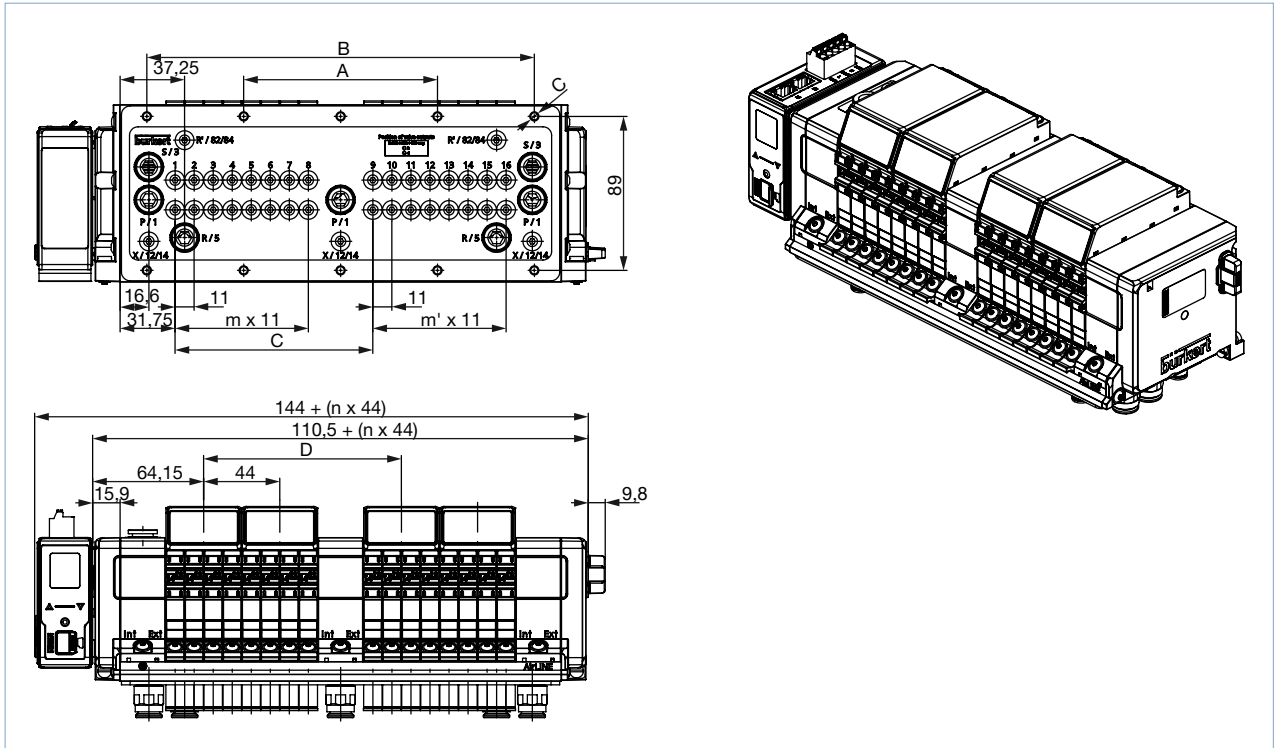
Circuit function	Description
	<b>Type: C, solenoid valve</b> 2 × 3/2 way Servo-controlled, with manual override Normally closed
	<b>Type: C, solenoid valve</b> 2 × 3/2 way Servo-controlled Normally closed
	<b>Type: D, solenoid valve</b> 2 × 3/2 way Servo-controlled, with manual override Normally open
	<b>Type: H, solenoid valve</b> 5/2 way Servo-controlled, with manual override, with auxiliary pilot air Normally open
	<b>Type: H, solenoid valve</b> 5/2 way Servo-controlled Normally open
	<b>Type: L, solenoid valve</b> 5/3 way Centre position all connections locked, with manual override Normally closed
	<b>Type: Z, solenoid valve</b> 5/2 way Impulse version with 2 coils, with manual override Normally open

### 3. Dimensions



Version	A	B	C	m	n
4x	66	-	4 x M5	3	1
8x	37	111	8 x M5	7	2
12x	77	154	10 x M5	11	3

DTS 1000336890 EN Version: K Status: RL (released | freigegeben | valide) printed: 08.10.2019



Version	A	B	C	D	m	m'	n
16x	112	224	10 x M5	114.3	7	7	4
20x	134	268	10 x M5	158.3	11	7	5
24x	156	312	10 x M5	158.3	11	11	6

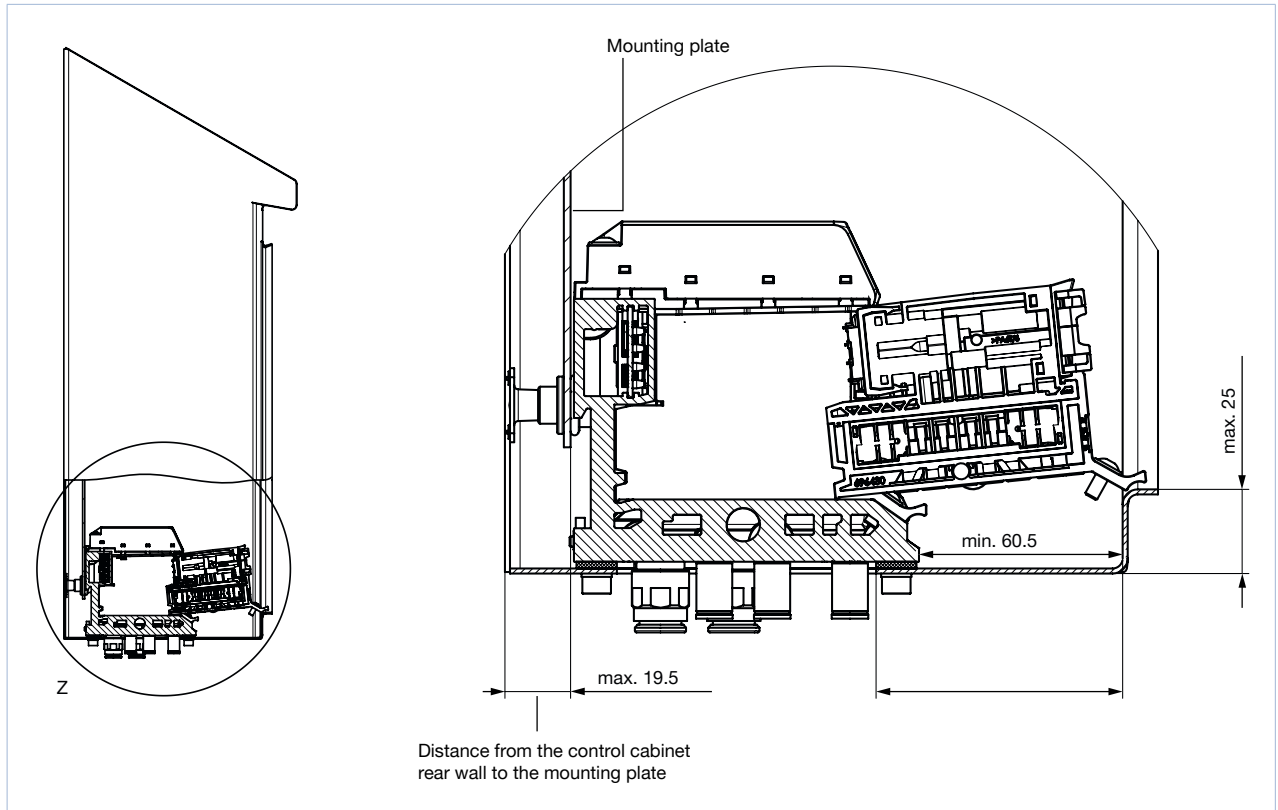
DTS 1000336890 EN Version: K Status: RL (released | freigegeben | validé) printed: 08.10.2019

## 4. Product installation

### 4.1. Installation instructions


#### Installation position of the valve island in the control cabinet

To be able to use the Hot-Swap function, there must be a minimum distance from the front edge of the control cabinet when installing the valve island in the control cabinet. Also observe the detailed description in the operating instructions.



## 5. Ordering information

### 5.1. 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.

[Order online now](#)

### 5.2. Bürkert product filter





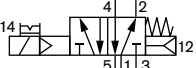
**Bürkert product filter – Get quickly to the right product**

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](#)

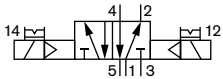
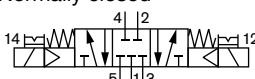
### 5.3. Replacement valves

#### Standard version

Circuit function	Nominal diameter [mm]	Q <sub>Nn</sub> value <sup>1.)</sup> Air [l/min]	Pressure range [bar]	Switching times		Voltage/ Frequency [V/Hz]	Article no. <sup>2.)</sup> incl. screw
				Opening [ms]	Closing [ms]		
<b>C, solenoid valve</b> 2 × 3/2 way Servo-controlled, with manual override Normally closed 	4	270 l/min	Vac. 10 <sup>3.)</sup> 3...10	15	15	24 V DC	301374
<b>D, solenoid valve</b> 2 × 3/2 way Servo-controlled, with manual override Normally open 	4	310 l/min	Vac. 10 <sup>3.)</sup> 3...10	15	15	24 V DC	301375
<b>H, solenoid valve</b> 5/2 way Servo-controlled, with manual override, with auxiliary pilot air Normally open 	4	290 l/min	Vac. 10 <sup>3.)</sup> 3...10	20	25	24 V DC	301376

DTS 1000336890 EN Version: K Status: RL (released | freigegeben | valide) printed: 08.10.2019



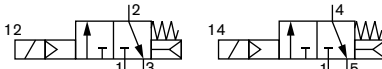
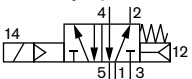
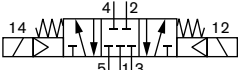
Circuit function	Nominal diameter [mm]	Q <sub>Nn</sub> value <sup>1.)</sup> Air [l/min]	Pressure range [bar]	Switching times		Voltage/ Frequency [V/Hz]	Article no. <sup>2.)</sup> incl. screw
				Opening [ms]	Closing [ms]		
<b>Z, solenoid valve</b> 5/2 way Impulse version with 2 coils, with manual override Normally open 	4	290 l/min	Vac. 10 <sup>3.)</sup> 3...10	20	25	24 V DC	301377
<b>L, solenoid valve</b> 5/3 way Centre position all connections locked, with manual override Normally closed 	4	275 l/min	Vac. 10 <sup>3.)</sup> 3...10	15	15	24 V DC	301380
Blind valve	-	-	-	-	-	-	335779

1.) For HotSwap function approx. 3 % flow reduction

2.) The valves are components or spare parts of the valve island Type 8652. They can be used only on the valve island Type 8652.

3.) Separate auxiliary pilot air at least 3 bar, please observe the control pressure table in the operating instructions.

**Second connection for shutdown**

Circuit function	Nominal diameter [mm]	Q <sub>Nn</sub> value <sup>1.)</sup> Air [l/min]	Pressure range [bar]	Switching times		Voltage/ Frequency [V/Hz]	Article no. <sup>2.)</sup> incl. screw
				Opening [ms]	Closing [ms]		
<b>C, solenoid valve</b> 2 x 3/2 way Servo-controlled Normally closed 	4	270 l/min	Vac. 10 <sup>3.)</sup> 3...10	15	15	24 V DC	338802
<b>H, solenoid valve</b> 5/2 way Servo-controlled Normally open 	4	290 l/min	Vac. 10 <sup>3.)</sup> 3...10	20	25	24 V DC	338805
<b>L, solenoid valve</b> 5/3 way Centre position all connections locked Normally closed 	4	275 l/min	Vac. 10 <sup>3.)</sup> 3...10	15	15	24 V DC	346830

1.) For HotSwap function approx. 3 % flow reduction

2.) The valves are components or spare parts of the valve island Type 8652. They can be used only on the valve island Type 8652.

3.) Separate auxiliary pilot air at least 3 bar, please observe the control pressure table in the operating instructions.

DTS 1000336890 EN Version: K Status: RL (released | freigegeben | validé) printed: 08.10.2019

# Bürkert – Close to You

For up-to-date addresses  
please visit us at  
[www.burkert.com](http://www.burkert.com)

DTS 1000336890 EN Version: K Status: RL (released | freigegeben | validé) printed: 08.10.2019

