894604 | Version 07/2019 | Printed 07/2019

**Bürkert Fluid Control Systems**
Christian-Bürkert-Straße 13-17
74653 Ingelfingen
Deutschland

Tel.: +49 (0) 7940/10-0
Fax: +49 (0) 7940/10-91 204

info@buerkert.de
www.buerkert.de

# Automation systems for the hygienic process environment

Automation systems for the hygienic process environment

bürkert
FLUID CONTROL SYSTEMS

bürkert

# Contents

Page

# Bürkert at a glance

**36**
**countries** worldwide
**Headquarters** in Ingelfingen

**2,800+**
**employees**
(of which roughly 1,600 are in Germany)

**7 %**
**R&D quota**

**5**
**Systemhaus facilities**
3 in Germany
1 in the USA (Charlotte, NC)
1 in China (Suzhou)

**5**
**production locations**
in Germany and France

**70 %**
share of sales outside Germany

**532.4**
**million euros**
**in product sales**

**1946**
**founded by Christian Bürkert**

**100 %**
**family-owned company**

# Bürkert Systemhaus facilities

As an experienced and trustworthy system developer, we are happy to assist you. With our highly qualified, motivated engineers and our outstanding production facilities, we can supply systems that are tailored to meet your needs.

### Systemhaus Dortmund

Our control cabinets are designed, manufactured and tested at our Systemhaus facility in Dortmund.

### Core expertise at Systemhaus Dortmund

- Control cabinets for pneumatic applications
- Control cabinets for fluidic applications
- ATEX control cabinets
- Customised systems
- Valves with pipe connections
- UL panel shop
- Standard-compliant control cabinet construction according to EN 61439
- Circuit diagram design using EPLAN P8

Systemhaus Dortmund | Germany

### International approvals for products and systems:

### Our other Bürkert Systemhaus facilities

Systemhaus Ingelfingen | Germany

Systemhaus Dresden | Germany

Systemhaus Suzhou | China

Systemhaus Charlotte | USA

# Intelligent concepts for tailored solutions

Automation in the food and beverage industry is always highly customised. There is no one best solution because very different priorities emerge depending on the plant configuration on the ground. Bürkert takes three different approaches to automation:

### Centralised automation

**The proven combination of control cabinets, valve islands, communication modules and valves ensure maximum operational safety and process repeatability. Perfectly compatible components make start-up and handling easier.**

### Process-oriented automation

**Flexible hygienic-design control cabinets in three sizes are ideal when it comes to housing the technology safely and in a process-oriented manner. Thanks to the stainless steel adapter plate, AirLINE valve islands can be mounted directly on the bottom of the control cabinet floor or on the control cabinet wall.**

### Decentralised automation

**Universal control heads enable direct integration of automation in the field. Diaphragm and process valve systems of the ELEMENT series are exceptionally easy to clean thanks to their entirely stainless-steel design.**

# Central and process-oriented automation solutions

### Standardised solutions with uniform interfaces

Many applications in the food and beverage industry frequently require the same components and functions. For these cases, Bürkert has developed standardised, hygienic automation solutions with uniform adaptation interfaces.

### Housing the technology safely in hygienic environments

Thanks to the use of suitable materials that can withstand the harsh conditions and meet the strict standards that apply in hygienic environments, these systems can be installed in the immediate vicinity of the actuator and sensor systems.

### Your benefits

Profit from completely pneumatic control cabinets made from a standardised construction set.

- Systems designed, implemented and tested by the Bürkert Systemhaus in Dortmund
- Delivered with accompanying documentation, certificates and approvals
- Installation, start-up and service
- High degree of integration of valve islands in Siemens process automation systems
- Quick and clear plain-text and icon-based diagnostics and feedback directly on the device and in the central controller
- Feedback from the field is displayed and processed directly on the associated device.
  This also applies in the event of a manual override.

On the following pages, you will find standardised system solutions with combinations of Bürkert valve islands, installed in the hygienic-design control cabinet housing.

### Options

You also have the possibility to integrate options. You can find these starting on page 100.

# Cabinet system Type 8614

### Stainless-steel system body featuring hygienic design

- Height dimensions: rear 549 mm, front 430 mm
- Depth dimensions: 210 mm
- Width dimensions: 390, 510 or 810 mm
- Additional control cabinet sizes on request

### Components in contact with the environment made of stainless steel

- Cable glands and breather drains
- Pneumatic supply connections for the filter regulator option
- AirLINE Quick bottom adaptation including pneumatic connections

### Electrical and pneumatic system components

- Bürkert valve island AirLINE Quick Type 8652, 8640, 8647 or 8644
- Mounting rail for additional electronic components
- Option: Mounted filter regulator with automatic drain
- Option: Pressure monitoring
- Option: Mounted power supply/power supply unit including fuse elements

### Pneumatic process reliability features

- Hot-swap function (P shutoff)
- Check valves in exhaust air ducts R and S

### Electrical connection:

- Fieldbus control unit Type 8652: Choice of Profibus DP, Industrial Ethernet (PROFINET I/O, EtherNet/IP, Modbus TCP, EtherCAT), büS/CANopen (for networking with Bürkert devices)
- Fieldbus control unit Type 8640: Choice of Profibus DP, PROFINET I/O, EtherNet/IP, Multipole
- Fieldbus control unit Type 8647: Electr. modules Siemens ET 200SP, fieldbus type PROFIBUS DP, PROFINET I/O
- Fieldbus control unit Type 8644: Choice of I/O systems Siemens ET 200S, Wago 750, Rockwell Point (on request)
- Power supply: 24 V DC, optional 230 V AC via power supply option

390 mm

510 mm

810 mm

# BürkertPlus

## Excellent and comprehensive service for your plant

In addition to engineering expertise, Bürkert provides a comprehensive service offering that extends for the entire product life cycle – the BürkertPlus all-round service.

## Our services covering all aspects of control cabinet conversion

**Services areas**

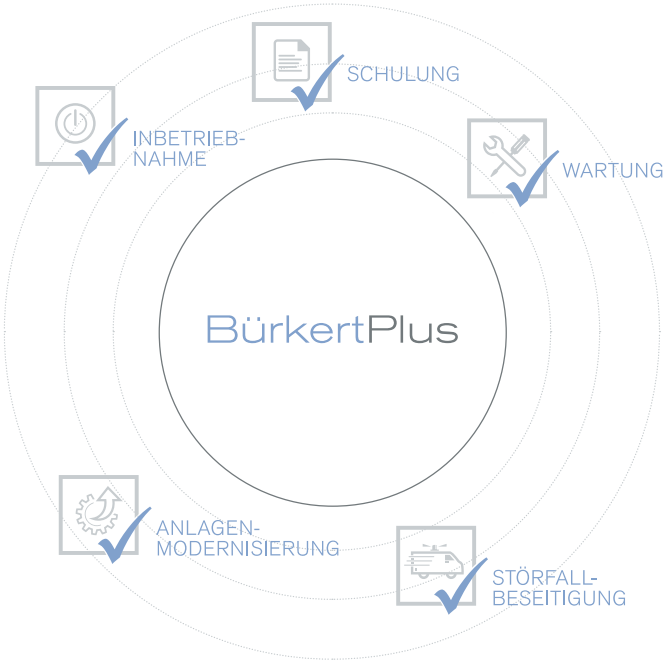
- New installations
- Control cabinet conversions
- Valve island conversions
- Conversion of solenoid valves to valve island

**Everything from a single source**

- Installation control cabinet/valve island
- Wiring/cable laying
- Piping
- Installation of basket trays

**Customer benefits of BürkertPlus**

- Expertise for all fluid system solutions
- Development and service partner for system solutions
- Individual, tailored service packages (fixed-price offers)




**Customer benefits**

- Straightforward processing (planning, delivery, installation, start-up)
- Optimum, individually configured service
- Reduced downtimes
- Cost transparency, planning security, resource transparency

Before: Plastic cabinet with obsolete valve technology, porous hoses and plastic cable ducts

After: Stainless steel cabinet featuring hygienic design incorporating the latest valve technology, new piping and stainless steel mesh cable trays with cover

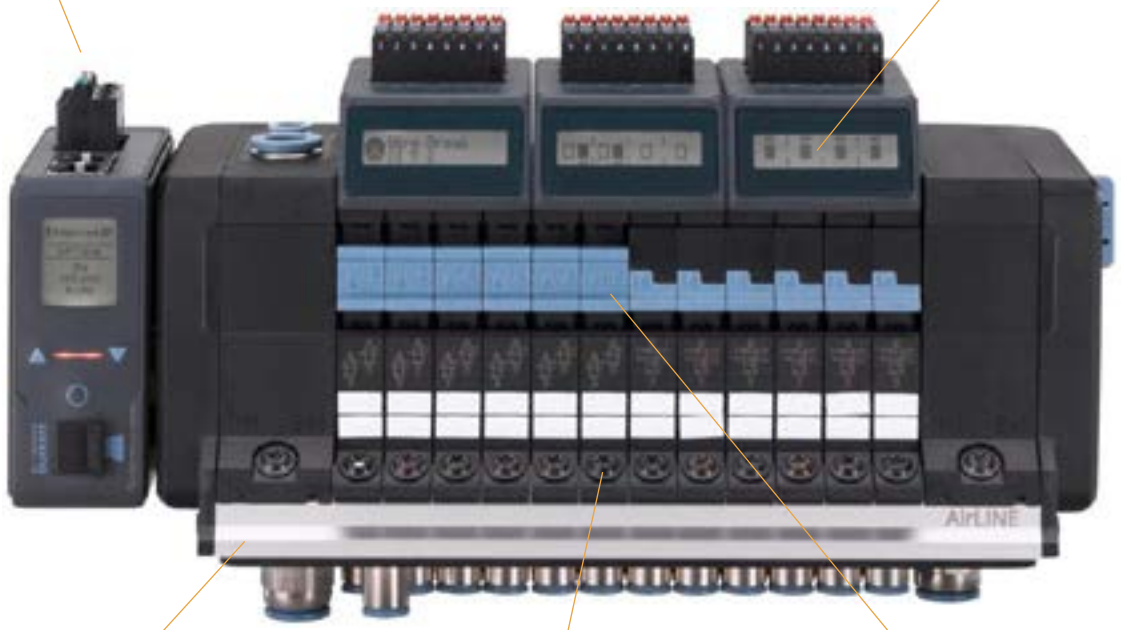
# Valve island AirLINE Type 8652

The latest electropneumatic Bürkert valve islands
for your automation concept

**Digital position feedback sensors**
- Compact und space saving
- Directly integrated in valve islands

**Communication interfaces**
- Industrial Ethernet (EtherNet/IP)
- PROFIBUS DP
- PROFINET IO, Modbus TCP
- büS/CANopen

**LC display, display of**
- Pilot and process valve status
- Wire breaks | short circuits | pressure values
- Further individually configurable warnings and messages




**AirLINE Quick**
- Quick and easy piping

**Pneumatic functions**
- Hot-swap function
- Check valves

**Robust manual override**
- Spring return, latching, blocking
- Visual position indicator

# Valve island AirLINE Type 8652

## The latest electropneumatic Bürkert valve islands for your automation concept

**The valve island Type 8652 AirLINE was designed for applications in the pharmaceutical, cosmetics, food and beverage industries as well as for water treatment.**

### Advantages

- Adjustable monitoring and diagnostic functions
- Integrated displays show detailed information for each valve, such as the current switching statuses of pilot valve and process valve. They also issue a message if preset pressure limits are exceeded, or display errors such as cable breaks in plain text.
- Improved plant availability and process reliability
- Possibility of preventive maintenance
- Compact design: The valve island Type 8652 is substantially smaller than its predecessor and can be placed close to the process valves in compact control cabinets
- AirLINE Quick adapter

### High plant availability thanks to network redundancy

The valve island communicates using standard industrial Ethernet protocols or PROFIBUS DP. In closed ring topologies and PROFINET-IO communication, the Media Redundancy Protocol (MRP) guarantees a highly available network that can even compensate for the failure of a switch or a line. This improves system availability and makes the process safer.

### Process reliability through pneumatic functions

- All valves are individually hot-swappable, which means they can be replaced during operation without the need to shut down the plant.
- Check valves in the vent duct are an additional safety function. These prevent undesired reactions in the plant.

### Industry 4.0 powered by EDIP

The Bürkert device platform EDIP (Efficient Device Integration Platform) encompasses a wide range of functions and coordinated HMI devices in order to facilitate the system integration of new devices. The free Bürkert software (the Bürkert Communicator) enables numerous diagnostic functions: Monitoring of operating data and alarm messages as well as customer-specific parameters.

Valve island AirLINE Quick 8652

# Order table for valve islands (basic configuration)

**Variant: 2x3/2-way valve island variant for use with filter regulator in the system (internal compressed air feed)**

| Valve island variant | Number of Valve functions | Digital Inputs | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|
| 8x2x3/2 | 16 | 0 | 320784 | 320785 |
| 8x2x3/2 | 16 | 16 | 320789 | 320790 |
| 12x2x3/2 | 24 | 0 | 320917 | 320918 |
| 12x2x3/2 | 24 | 24 | 320920 | 320921 |
| 16x2x3/2 | 32 | 0 | 332313 | 332315 |
| 16x2x3/2 | 32 | 32 | 332314 | 332316 |
| 20x2x3/2 | 40 | 0 | 338222 | 338225 |
| 20x2x3/2 | 40 | 40 | 338356 | 338357 |
| 24x2x3/2 | 48 | 0 | 332326 | 332328 |
| 24x2x3/2 | 48 | 48 | 332327 | 332329 |

**Variant: 5/2-way valve island variant for use with filter regulator in the system (internal compressed air feed)**

| Valve island variant | Number of Valve functions | Digital Inputs | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|
| 8x5/2 | 8 | 0 | 320794 | 320795 |
| 8x5/2 | 8 | 16 | 320842 | 320843 |
| 12x5/2 | 12 | 0 | 320923 | 320924 |
| 12x5/2 | 12 | 24 | 320929 | 320931 |
| 16x5/2 | 16 | 0 | 332319 | 332321 |
| 16x5/2 | 16 | 32 | 332320 | 332322 |
| 20x5/2 | 20 | 0 | 338237 | 338238 |
| 20x5/2 | 20 | 40 | 338359 | 338360 |
| 24x5/2 | 24 | 0 | 332332 | 332334 |
| 24x5/2 | 24 | 48 | 332333 | 332335 |

**Variant: 2x3/2-way valve island variant for use without filter regulator in the system (external compressed air feed)**

| Valve island variant | Number of Valve functions | Digital Inputs | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|
| 8x2x3/2 | 16 | 0 | 320979 | 322753 |
| 8x2x3/2 | 16 | 16 | 320980 | 322757 |
| 12x2x3/2 | 24 | 0 | 323042 | 323081 |
| 12x2x3/2 | 24 | 24 | 320888 | 320891 |
| 16x2x3/2 | 32 | 0 | 336297 | 338637 |
| 16x2x3/2 | 32 | 32 | 336401 | 341001 |
| 20x2x3/2 | 40 | 0 | 336390 | 358061 |
| 20x2x3/2 | 40 | 40 | 336400 | 358062 |
| 24x2x3/2 | 48 | 0 | 336395 | 347972 |
| 24x2x3/2 | 48 | 48 | 335841 | 335843 |

**Variant: 5/2-way valve island variant for use without filter regulator in the system (external compressed air feed)**

| Valve island variant | Number of Valve functions | Digital Inputs | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|
| 8x5/2 | 8 | 0 | 322930 | 322947 |
| 8x5/2 | 8 | 16 | 322932 | 322951 |
| 12x5/2 | 12 | 0 | 323145 | 323192 |
| 12x5/2 | 12 | 24 | 323147 | 323194 |
| 16x5/2 | 16 | 0 | 328938 | 358060 |
| 16x5/2 | 16 | 32 | 341005 | 340999 |
| 20x5/2 | 20 | 0 | 328939 | 358064 |
| 20x5/2 | 20 | 40 | 358066 | 358067 |
| 24x5/2 | 24 | 0 | 346959 | 358074 |
| 24x5/2 | 24 | 48 | 341006 | 341000 |

## Installation width 390 mm

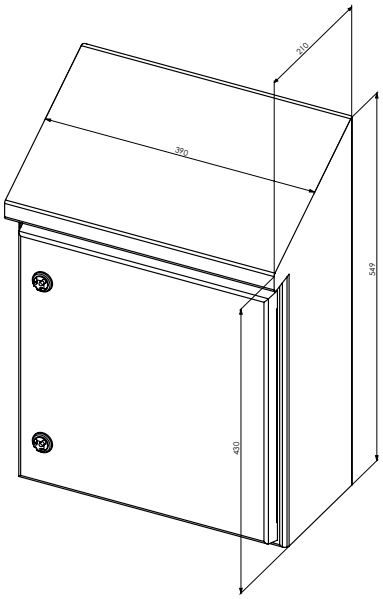
Max. expansion variant:

- One valve island
- 12x2x3/2-way function
  24 digital position feedback inputs
- 16x2x3/2- or 5/2-way function
  no digital position feedback inputs*

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 390 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +55°C |
| **Pressure range with/without filter regulator** | 3 to 16 bar/3 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 270 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | Ø 10/8 mm push-in |
| Working ports valve | Ø 6/4 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Performance (without I/O system)** | 50 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6 x 6.5 mm (8 x 5.5 mm)* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | 1.0 $mm^2$ (with ferrule) |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 25 kg |

* see order table



Automation system Type 8614 with valve island Type 8652, installation width 390 mm

# Order table

### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 17 | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1001 | 16 | 0 | no | * | 0 | 0 | 321355 | 321356 |
| 8x2x3/2 | 1002 | 16 | 0 | no | * | 24 | 32 | 321359 | 321360 |
| 8x2x3/2 | 1002 | 16 | 16 | no | * | 24 | 32 | 321363 | 321364 |
| 8x2x3/2 | 1003 | 16 | 0 | no | * | 48 | 64 | 321367 | 321368 |
| 8x2x3/2 | 1003 | 16 | 16 | no | * | 48 | 64 | 321371 | 321372 |
| 12x2x3/2 | 1011 | 24 | 0 | no | * | 0 | 0 | 321387 | 321388 |
| 12x2x3/2 | 1012 | 24 | 0 | no | * | 24 | 32 | 321391 | 321392 |
| 12x2x3/2 | 1012 | 24 | 24 | no | * | 24 | 32 | 321395 | 321396 |
| 12x2x3/2 | 1013** | 24 | 0 | no | * | 48 | 64 | 321399 | 321400 |
| 12x2x3/2 | 1013** | 24 | 24 | no | * | 48 | 64 | 321403 | 321404 |
| 16x2x3/2 | 1031 | 32 | 0 | yes | * | 0 | 0 | 321411 | 321412 |

* Note the specifications of the I/O system manufacturer
** Please contact us

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 17 | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1001 | 8 | 0 | no | * | 0 | 0 | 321357 | 321358 |
| 8x5/2 | 1002 | 8 | 0 | no | * | 24 | 32 | 321361 | 321362 |
| 8x5/2 | 1002 | 8 | 16 | no | * | 24 | 32 | 321365 | 321366 |
| 8x5/2 | 1003 | 8 | 0 | no | * | 48 | 64 | 321369 | 321370 |
| 8x5/2 | 1003 | 8 | 16 | no | * | 48 | 64 | 321373 | 321374 |
| 12x5/2 | 1011 | 12 | 0 | no | * | 0 | 0 | 321389 | 321390 |
| 12x5/2 | 1012 | 12 | 0 | no | * | 24 | 32 | 321393 | 321394 |
| 12x5/2 | 1012 | 12 | 24 | no | * | 24 | 32 | 321397 | 321398 |
| 12x5/2 | 1013** | 12 | 0 | no | * | 48 | 64 | 321401 | 321402 |
| 12x5/2 | 1013** | 12 | 24 | no | * | 48 | 64 | 321405 | 321406 |
| 16x5/2 | 1031 | 16 | 0 | yes | * | 0 | 0 | 321413 | 321414 |

* Note the specifications of the I/O system manufacturer
** Please contact us

### Options/assemblies:

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 390 mm

# Order table

**Variant: 2x3/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 17 | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1004 | 16 | 0 | no | * | 0 | 0 | 321375 | 321376 |
| 8x2x3/2 | 1005 | 16 | 0 | no | * | 24 | 32 | 321379 | 321380 |
| 8x2x3/2 | 1005 | 16 | 16 | no | * | 24 | 32 | 321383 | 321384 |
| 12x2x3/2 | 1014 | 24 | 0 | no | * | 0 | 0 | 321407 | 321408 |

* Note the specifications of the I/O system manufacturer

**Variant: 5/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 17 | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1004 | 8 | 0 | no | * | 0 | 0 | 321377 | 321378 |
| 8x5/2 | 1005 | 8 | 0 | no | * | 24 | 32 | 321381 | 321382 |
| 8x5/2 | 1005 | 8 | 16 | no | * | 24 | 32 | 321385 | 321386 |
| 12x5/2 | 1014 | 12 | 0 | no | * | 0 | 0 | 321409 | 321410 |

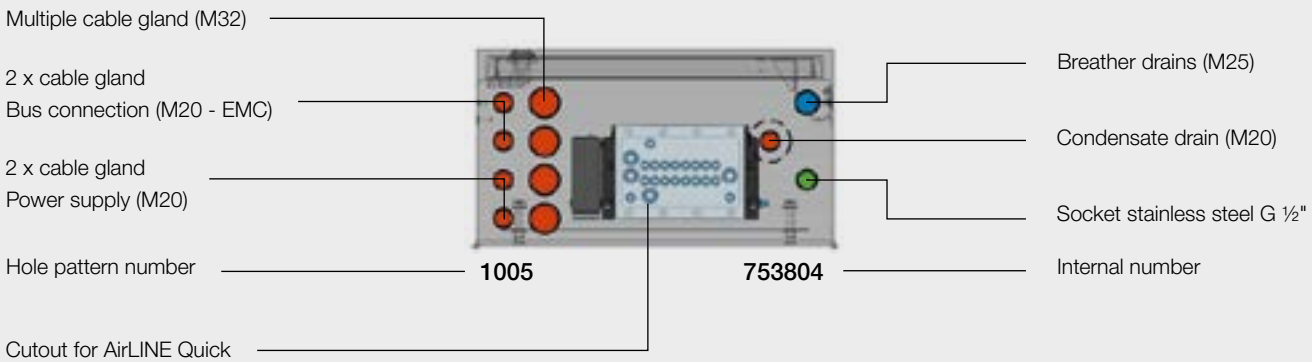
* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

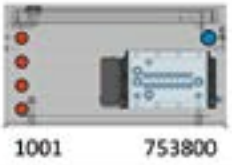
## Description of hole pattern






## Hole patterns

8-fold valve island
Type 8652
Installation width 390


1001 753800

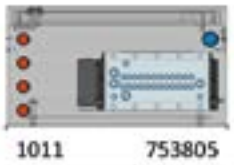

1002 753801

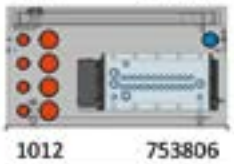

1003 753802

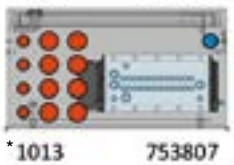

1004 753803

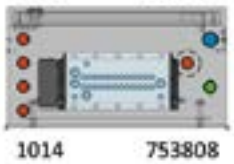

1005 753804

12-fold valve island
Type 8652
Installation width 390

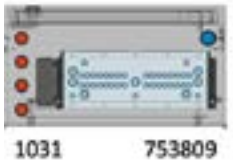

1011 753805


1012 753806


*1013 753807


1014 753808

16-fold valve island (w. IF)
Type 8652
Installation width 390


1031 753809

*Hole pattern 1013: Please contact us
w. IF = with intermediate feed

## Installation width 510 mm

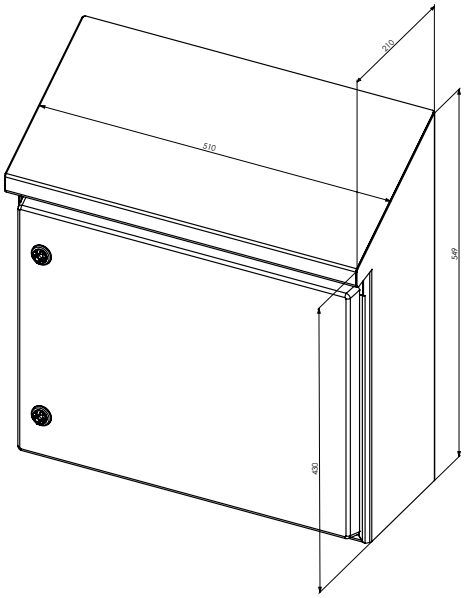
Max. expansion variant:

- Two valve islands
- 24x2x3/2-way function
  48 digital position feedback inputs
- 24x5/2-way function
  48 digital position feedback inputs

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 510 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +55°C |
| **Pressure range with/without filter regulator** | 3 to 16 bar/3 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 270 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | Ø 10/8 mm push-in |
| Working ports valve | Ø 6/4 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Performance (without I/O system)** | 75 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6 x 6.5 mm (8 x 5.5 mm)* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | 1.0 $mm^2$ (with ferrule) |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 30 kg |

* see order table



Automation system Type 8614 with valve island Type 8652, installation width 510 mm

# Order table

**Variant: 2x3/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 22-23 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter regulator | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1101 | 1 | 0 | 16 | 0 | no | * | 0 | 0 | 0 | 321415 | 321416 |
| 8x2x3/2 | 1102 | 1 | 0 | 16 | 0 | no | * | 24 | 32 | 0 | 321419 | 321420 |
| 8x2x3/2 | 1102 | 1 | 0 | 16 | 16 | no | * | 24 | 32 | 0 | 321423 | 321424 |
| 8x2x3/2 | 1103 | 1 | 0 | 16 | 0 | no | * | 48 | 64 | 0 | 321427 | 321428 |
| 8x2x3/2 | 1103 | 1 | 0 | 16 | 16 | no | * | 48 | 64 | 0 | 321431 | 321432 |
| 8x2x3/2 | 1104 | 1 | 0 | 16 | 0 | no | * | 72 | 96 | 0 | 321435 | 321436 |
| 8x2x3/2 | 1104 | 1 | 0 | 16 | 16 | no | * | 72 | 96 | 0 | 321439 | 321440 |
| 8x2x3/2 | 1105 | 1 | 0 | 16 | 0 | no | * | 96 | 128 | 0 | 321443 | 321444 |
| 8x2x3/2 | 1105 | 1 | 0 | 16 | 16 | no | * | 96 | 128 | 0 | 321447 | 321448 |
| 8x2x3/2 | 1110 | 2 | 0 | 32 | 0 | no | * | 0 | 0 | 0 | 321479 | 321480 |
| 8x2x3/2 | 1110 | 1 | 1 | 16 | 0 | no | * | 0 | 0 | 0 | 321483 | 321484 |
| 12x2x3/2 | 1111 | 1 | 0 | 24 | 0 | no | * | 0 | 0 | 0 | 321487 | 321488 |
| 12x2x3/2 | 1112 | 1 | 0 | 24 | 0 | no | * | 24 | 32 | 0 | 321491 | 321492 |
| 12x2x3/2 | 1112 | 1 | 0 | 24 | 24 | no | * | 24 | 32 | 0 | 321495 | 321496 |
| 12x2x3/2 | 1113 | 1 | 0 | 24 | 0 | no | * | 48 | 64 | 0 | 321499 | 321500 |
| 12x2x3/2 | 1113 | 1 | 0 | 24 | 24 | no | * | 48 | 64 | 0 | 321503 | 321504 |
| 12x2x3/2 | 1114 | 1 | 0 | 24 | 0 | no | * | 72 | 96 | 0 | 321507 | 321508 |
| 12x2x3/2 | 1114 | 1 | 0 | 24 | 24 | no | * | 72 | 96 | 0 | 321511 | 321512 |
| 12x2x3/2 | 1115 | 1 | 0 | 24 | 0 | no | * | 96 | 128 | 0 | 321515 | 321516 |
| 12x2x3/2 | 1115 | 1 | 0 | 24 | 24 | no | * | 96 | 128 | 0 | 321519 | 321520 |
| 16x2x3/2 | 1131 | 1 | 0 | 32 | 0 | yes | * | 0 | 0 | 0 | 321543 | 321544 |
| 16x2x3/2 | 1132 | 1 | 0 | 32 | 0 | yes | * | 24 | 32 | 0 | 321547 | 321548 |
| 16x2x3/2 | 1132 | 1 | 0 | 32 | 32 | yes | * | 24 | 32 | 0 | 321551 | 321552 |
| 16x2x3/2 | 1133 | 1 | 0 | 32 | 0 | yes | * | 48 | 64 | 0 | 321555 | 321556 |
| 16x2x3/2 | 1133 | 1 | 0 | 32 | 32 | yes | * | 48 | 64 | 0 | 321559 | 321560 |
| 20x2x3/2 | 1141 | 1 | 0 | 40 | 0 | yes | * | 0 | 0 | 0 | 321575 | 321576 |
| 20x2x3/2 | 1142 | 1 | 0 | 40 | 0 | yes | * | 24 | 32 | 0 | 321579 | 321580 |
| 20x2x3/2 | 1142 | 1 | 0 | 40 | 40 | yes | * | 24 | 32 | 0 | 321583 | 321584 |
| 20x2x3/2 | 1143** | 1 | 0 | 40 | 0 | yes | * | 48 | 64 | 0 | 321587 | 321588 |
| 20x2x3/2 | 1143** | 1 | 0 | 40 | 40 | yes | * | 48 | 64 | 0 | 321591 | 321592 |
| 24x2x3/2 | 1151 | 1 | 0 | 48 | 0 | yes | * | 0 | 0 | 0 | 321599 | 321600 |
| 24x2x3/2 | 1152 | 1 | 0 | 48 | 0 | yes | * | 24 | 32 | 0 | 321603 | 321604 |
| 24x2x3/2 | 1152 | 1 | 0 | 48 | 48 | yes | * | 24 | 32 | 0 | 321607 | 321608 |

* Note the specifications of the I/O system manufacturer
** Please contact us

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 510 mm

# Order table

**Variant: 5/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 22-23 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter regulator | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1101 | 1 | 0 | 8 | 0 | no | * | 0 | 0 | 0 | 321417 | 321418 |
| 8x5/2 | 1102 | 1 | 0 | 8 | 0 | no | * | 24 | 32 | 0 | 321421 | 321422 |
| 8x5/2 | 1102 | 1 | 0 | 8 | 16 | no | * | 24 | 32 | 0 | 321425 | 321426 |
| 8x5/2 | 1103 | 1 | 0 | 8 | 0 | no | * | 48 | 64 | 0 | 321429 | 321430 |
| 8x5/2 | 1103 | 1 | 0 | 8 | 16 | no | * | 48 | 64 | 0 | 321433 | 321434 |
| 8x 5/2 | 1104 | 1 | 0 | 8 | 0 | no | * | 72 | 96 | 0 | 321437 | 321438 |
| 8x5/2 | 1104 | 1 | 0 | 8 | 16 | no | * | 72 | 96 | 0 | 321441 | 321442 |
| 8x5/2 | 1105 | 1 | 0 | 8 | 0 | no | * | 96 | 128 | 0 | 321445 | 321446 |
| 8x5/2 | 1105 | 1 | 0 | 8 | 16 | no | * | 96 | 128 | 0 | 321449 | 321450 |
| 8x5/2 | 1110 | 2 | 0 | 16 | 0 | no | * | 0 | 0 | 0 | 321481 | 321482 |
| 8x5/2 | 1110 | 1 | 1 | 8 | 0 | no | * | 0 | 0 | 0 | 321485 | 321486 |
| 12x5/2 | 1111 | 1 | 0 | 12 | 0 | no | * | 0 | 0 | 0 | 321489 | 321490 |
| 12x5/2 | 1112 | 1 | 0 | 12 | 0 | no | * | 24 | 32 | 0 | 321493 | 321494 |
| 12x5/2 | 1112 | 1 | 0 | 12 | 24 | no | * | 24 | 32 | 0 | 321497 | 321498 |
| 12x5/2 | 1113 | 1 | 0 | 12 | 0 | no | * | 48 | 64 | 0 | 321501 | 321502 |
| 12x5/2 | 1113 | 1 | 0 | 12 | 24 | no | * | 48 | 64 | 0 | 321505 | 321506 |
| 12x5/2 | 1114 | 1 | 0 | 12 | 0 | no | * | 72 | 96 | 0 | 321509 | 321510 |
| 12x5/2 | 1114 | 1 | 0 | 12 | 24 | no | * | 72 | 96 | 0 | 321513 | 321514 |
| 12x5/2 | 1115 | 1 | 0 | 12 | 0 | no | * | 96 | 128 | 0 | 321517 | 321518 |
| 12x5/2 | 1115 | 1 | 0 | 12 | 24 | no | * | 96 | 128 | 0 | 321521 | 321522 |
| 16x5/2 | 1131 | 1 | 0 | 16 | 0 | yes | * | 0 | 0 | 0 | 321545 | 321546 |
| 16x5/2 | 1132 | 1 | 0 | 16 | 0 | yes | * | 24 | 32 | 0 | 321549 | 321550 |
| 16x5/2 | 1132 | 1 | 0 | 16 | 32 | yes | * | 24 | 32 | 0 | 321553 | 321554 |
| 16x5/2 | 1133 | 1 | 0 | 16 | 0 | yes | * | 48 | 64 | 0 | 321557 | 321558 |
| 16x5/2 | 1133 | 1 | 0 | 16 | 32 | yes | * | 48 | 64 | 0 | 321561 | 321562 |
| 20x5/2 | 1141 | 1 | 0 | 20 | 0 | yes | * | 0 | 0 | 0 | 321577 | 321578 |
| 20x5/2 | 1142 | 1 | 0 | 20 | 0 | yes | * | 24 | 32 | 0 | 321581 | 321582 |
| 20x5/2 | 1142 | 1 | 0 | 20 | 40 | yes | * | 24 | 32 | 0 | 321585 | 321586 |
| 20x5/2 | 1143** | 1 | 0 | 20 | 0 | yes | * | 48 | 64 | 0 | 321589 | 321590 |
| 20x5/2 | 1143** | 1 | 0 | 20 | 40 | yes | * | 48 | 64 | 0 | 321593 | 321594 |
| 24x5/2 | 1151 | 1 | 0 | 24 | 0 | yes | * | 0 | 0 | 0 | 321601 | 321602 |
| 24x5/2 | 1152 | 1 | 0 | 24 | 0 | yes | * | 24 | 32 | 0 | 321605 | 321606 |
| 24x5/2 | 1152 | 1 | 0 | 24 | 48 | yes | * | 24 | 32 | 0 | 321609 | 321610 |

* Note the specifications of the I/O system manufacturer
** Please contact us

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 510 mm

# Order table

### Variant: 2x3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 22-23 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter regulator | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1106 | 1 | 0 | 16 | 0 | no | * | 0 | 0 | 1 | 321451 | 321452 |
| 8x2x3/2 | 1107 | 1 | 0 | 16 | 0 | no | * | 24 | 32 | 1 | 321455 | 321456 |
| 8x2x3/2 | 1107 | 1 | 0 | 16 | 16 | no | * | 24 | 32 | 1 | 321459 | 321460 |
| 8x2x3/2 | 1108 | 1 | 0 | 16 | 0 | no | * | 48 | 64 | 1 | 321463 | 321464 |
| 8x2x3/2 | 1108 | 1 | 0 | 16 | 16 | no | * | 48 | 64 | 1 | 321467 | 321468 |
| 8x2x3/2 | 1109 | 1 | 0 | 16 | 0 | no | * | 72 | 96 | 1 | 321471 | 321472 |
| 8x2x3/2 | 1109 | 1 | 0 | 16 | 16 | no | * | 72 | 96 | 1 | 321475 | 321476 |
| 12x2x3/2 | 1116 | 1 | 0 | 24 | 0 | no | * | 0 | 0 | 1 | 321523 | 321524 |
| 12x2x3/2 | 1117 | 1 | 0 | 24 | 0 | no | * | 24 | 32 | 1 | 321527 | 321528 |
| 12x2x3/2 | 1117 | 1 | 0 | 24 | 24 | no | * | 24 | 32 | 1 | 321531 | 321532 |
| 12x2x3/2 | 1118 | 1 | 0 | 24 | 0 | no | * | 48 | 64 | 1 | 321535 | 321536 |
| 12x2x3/2 | 1118 | 1 | 0 | 24 | 24 | no | * | 48 | 64 | 1 | 321539 | 321540 |
| 16x2x3/2 | 1136 | 1 | 0 | 32 | 0 | yes | * | 0 | 0 | 1 | 321563 | 321564 |
| 16x2x3/2 | 1137 | 1 | 0 | 32 | 0 | yes | * | 0 | 0 | 1 | 321567 | 321568 |
| 16x2x3/2 | 1137 | 1 | 0 | 32 | 32 | yes | * | 0 | 0 | 1 | 321571 | 321572 |
| 20x2x3/2 | 1146 | 1 | 0 | 40 | 0 | yes | * | 0 | 0 | 1 | 321595 | 321596 |

* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 22-23 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter regulator | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1106 | 1 | 0 | 8 | 0 | no | * | 0 | 0 | 1 | 321453 | 321454 |
| 8x5/2 | 1107 | 1 | 0 | 8 | 0 | no | * | 24 | 32 | 1 | 321457 | 321458 |
| 8x5/2 | 1107 | 1 | 0 | 8 | 16 | no | * | 24 | 32 | 1 | 321461 | 321462 |
| 8x5/2 | 1108 | 1 | 0 | 8 | 0 | no | * | 48 | 64 | 1 | 321465 | 321466 |
| 8x5/2 | 1108 | 1 | 0 | 8 | 16 | no | * | 48 | 64 | 1 | 321469 | 321470 |
| 8x5/2 | 1109 | 1 | 0 | 8 | 0 | no | * | 72 | 96 | 1 | 321473 | 321474 |
| 8x5/2 | 1109 | 1 | 0 | 8 | 16 | no | * | 72 | 96 | 1 | 321477 | 321478 |
| 12x5/2 | 1116 | 1 | 0 | 12 | 0 | no | * | 0 | 0 | 1 | 321525 | 321526 |
| 12x5/2 | 1117 | 1 | 0 | 12 | 0 | no | * | 24 | 32 | 1 | 321529 | 321530 |
| 12x5/2 | 1117 | 1 | 0 | 12 | 24 | no | * | 24 | 32 | 1 | 321533 | 321534 |
| 12x5/2 | 1118 | 1 | 0 | 12 | 0 | no | * | 48 | 64 | 1 | 321537 | 321538 |
| 12x5/2 | 1118 | 1 | 0 | 12 | 24 | no | * | 48 | 64 | 1 | 321541 | 321542 |
| 16x5/2 | 1136 | 1 | 0 | 16 | 0 | yes | * | 0 | 0 | 1 | 321565 | 321566 |
| 16x5/2 | 1137 | 1 | 0 | 16 | 0 | yes | * | 0 | 0 | 1 | 321569 | 321570 |
| 16x5/2 | 1137 | 1 | 0 | 16 | 32 | yes | * | 0 | 0 | 1 | 321573 | 321574 |
| 20x5/2 | 1146 | 1 | 0 | 20 | 0 | yes | * | 0 | 0 | 1 | 321597 | 321598 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 510 mm

## Hole patterns

8-fold valve island
Type 8652
Installation width 510


1101 753810


1102 753811


1103 753812


1104 753813


1105 753814


1106 753815


1107 753816


1108 753817


1109 753818


1110 753819

12-fold valve island
Type 8652
Installation width 510


1111 753820


1112 753821


1113 753822


1114 753823


1115 753824


1116 753825


1117 753826


1118 753827

16-fold valve island (w. IF)
Type 8652
Installation width 510


1131 753828


1132 753829


1133 753830


1136 753831

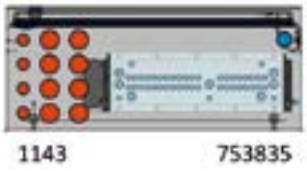

1137 753832

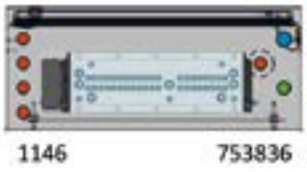
Automation system Type 8614 with valve island Type 8652, installation width 510 mm

## Hole patterns

20-fold valve island (w. IF)
Type 8652
Installation width 510





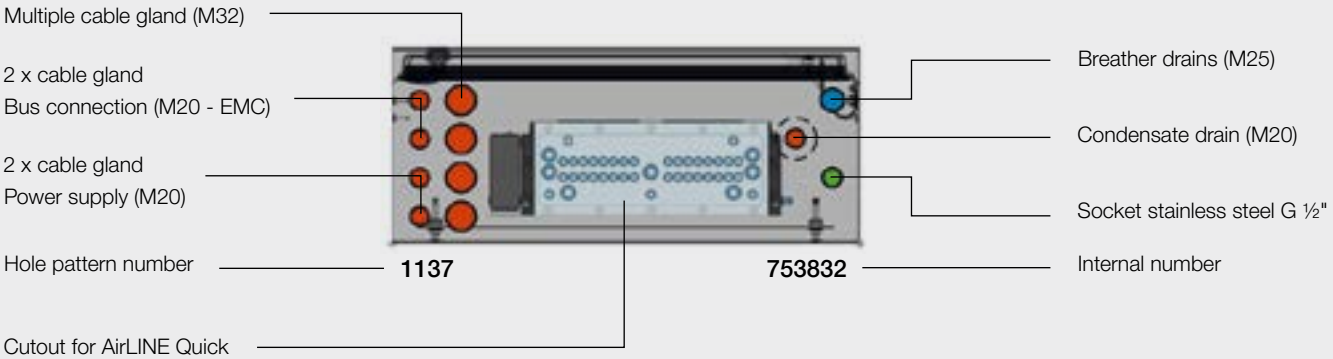




24-fold valve island (w. IF)
Type 8652
Installation width 510



*Hole pattern 1143: Please contact us
w. IF = with intermediate feed

## Description of hole pattern



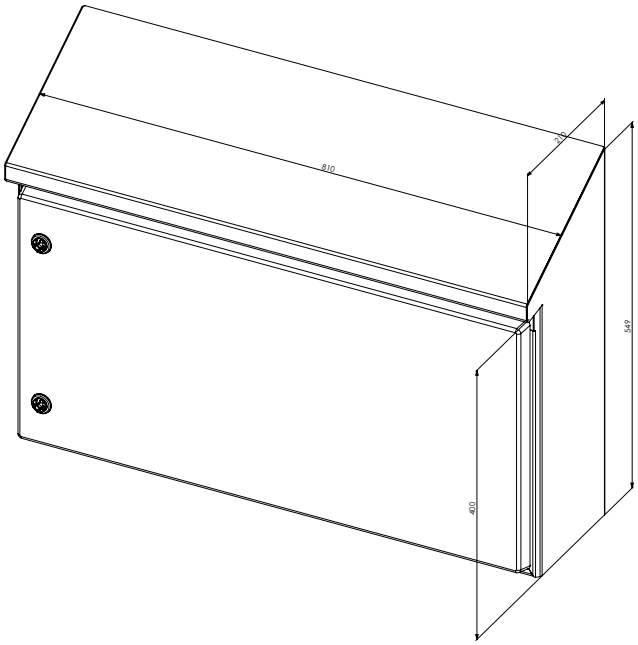
## Installation width 810 mm

Max. expansion variant:

- Two valve islands
- 32 x 2x3/2-way function
  64 digital position feedback inputs
- 32 x 5/2-way function
  64 digital position feedback inputs

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 810 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +55°C |
| **Pressure range with/without filter regulator** | 3 to 16 bar/3 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 270 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | Ø 10/8 mm push-in |
| Working ports valve | Ø 6/4 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 V AC |
| Valve island | 24 V DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 120 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O system | 6 x 6.5 mm (8 x 5.5 mm)* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | 1.0 $mm^2$ (with ferrule) |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 40 kg |



* see order table

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

# Order table

**Variant: 2x3/2-way valve island variant without filter regulator, without position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1201 | 2 | 0 | 32 | no | * | 0 | 0 | 321611 | 321612 |
| 8x2x3/2 | 1201 | 1 | 1 | 16 | no | * | 0 | 0 | 321615 | 321616 |
| 8x2x3/2 | 1202 | 2 | 0 | 32 | no | * | 24 | 32 | 321619 | 321620 |
| 8x2x3/2 | 1202 | 1 | 1 | 16 | no | * | 24 | 32 | 321623 | 321624 |
| 8x2x3/2 | 1203 | 2 | 0 | 32 | no | * | 48 | 64 | 321635 | 321636 |
| 8x2x3/2 | 1203 | 1 | 1 | 16 | no | * | 48 | 64 | 321639 | 321640 |
| 8x2x3/2 | 1204 | 2 | 0 | 32 | no | * | 72 | 96 | 321651 | 321652 |
| 8x2x3/2 | 1204 | 1 | 1 | 16 | no | * | 72 | 96 | 321655 | 321656 |
| 8x2x3/2 | 1205 | 2 | 0 | 32 | no | * | 96 | 128 | 321667 | 321668 |
| 8x2x3/2 | 1205 | 1 | 1 | 16 | no | * | 96 | 128 | 321671 | 321672 |
| 8x2x3/2 | 1206 | 2 | 0 | 32 | no | * | 120 | 160 | 321683 | 321684 |
| 8x2x3/2 | 1206 | 1 | 1 | 16 | no | * | 120 | 160 | 321687 | 321688 |
| 12x2x3/2 | 1221 | 2 | 0 | 48 | no | * | 0 | 0 | 343311 | 343312 |
| 12x2x3/2 | 1221 | 1 | 1 | 24 | no | * | 0 | 0 | 343315 | 343316 |
| 12x2x3/2 | 1222 | 2 | 0 | 48 | no | * | 24 | 32 | 343319 | 343320 |
| 12x2x3/2 | 1222 | 1 | 1 | 24 | no | * | 24 | 32 | 343323 | 343324 |
| 12x2x3/2 | 1223 | 2 | 0 | 48 | no | * | 48 | 64 | 343335 | 343336 |
| 12x2x3/2 | 1223 | 1 | 1 | 24 | no | * | 48 | 64 | 343339 | 343340 |
| 12x2x3/2 | 1224 | 2 | 0 | 48 | no | * | 72 | 96 | 343351 | 343352 |
| 12x2x3/2 | 1224 | 1 | 1 | 24 | no | * | 72 | 96 | 343355 | 343356 |
| 12x2x3/2 | 1225 | 2 | 0 | 48 | no | * | 96 | 128 | 343367 | 343368 |
| 12x2x3/2 | 1225 | 1 | 1 | 24 | no | * | 96 | 128 | 343371 | 343372 |
| 16x2x3/2 | 1241 | 2 | 0 | 64 | yes | * | 0 | 0 | 343439 | 343440 |
| 16x2x3/2 | 1241 | 1 | 1 | 32 | yes | * | 0 | 0 | 343443 | 343444 |
| 16x2x3/2 | 1242 | 2 | 0 | 64 | yes | * | 24 | 32 | 343447 | 343448 |
| 16x2x3/2 | 1242 | 1 | 1 | 32 | yes | * | 24 | 32 | 343451 | 343452 |
| 16x2x3/2 | 1243 | 2 | 0 | 64 | yes | * | 48 | 64 | 343463 | 343464 |
| 16x2x3/2 | 1243 | 1 | 1 | 32 | yes | * | 48 | 64 | 343467 | 343468 |
| 16x2x3/2 | 1244 | 1 | 0 | 32 | yes | * | 0 | 0 | 343487 | 343488 |
| 16x2x3/2 | 1245 | 1 | 0 | 32 | yes | * | 24 | 32 | 343491 | 343492 |
| 16x2x3/2 | 1246 | 1 | 0 | 32 | yes | * | 48 | 64 | 343499 | 343500 |
| 16x2x3/2 | 1247 | 1 | 0 | 32 | yes | * | 72 | 96 | 343507 | 343508 |
| 16x2x3/2 | 1248 | 1 | 0 | 32 | yes | * | 96 | 128 | 343515 | 343516 |
| 16x2x3/2 | 1249 | 1 | 0 | 32 | yes | * | 120 | 160 | 343523 | 343524 |
| 20x2x3/2 | 1261 | 2 | 0 | 80 | yes | * | 0 | 0 | 343575 | 343576 |
| 20x2x3/2 | 1261 | 1 | 1 | 40 | yes | * | 0 | 0 | 343579 | 343580 |
| 20x2x3/2 | 1264 | 1 | 0 | 40 | yes | * | 0 | 0 | 343583 | 343584 |
| 20x2x3/2 | 1265 | 1 | 0 | 40 | yes | * | 24 | 32 | 343587 | 343588 |
| 20x2x3/2 | 1266 | 1 | 0 | 40 | yes | * | 48 | 64 | 343595 | 343596 |
| 20x2x3/2 | 1267 | 1 | 0 | 40 | yes | * | 72 | 96 | 343603 | 343604 |
| 20x2x3/2 | 1268 | 1 | 0 | 40 | yes | * | 96 | 128 | 343611 | 343612 |
| 20x2x3/2 | 1269 | 1 | 0 | 40 | yes | * | 120 | 160 | 343619 | 343620 |
| 24x2x3/2 | 1284 | 1 | 0 | 48 | yes | * | 0 | 0 | 343671 | 343672 |
| 24x2x3/2 | 1285 | 1 | 0 | 48 | yes | * | 24 | 32 | 343675 | 343676 |
| 24x2x3/2 | 1286 | 1 | 0 | 48 | yes | * | 48 | 64 | 343683 | 343684 |
| 24x2x3/2 | 1287 | 1 | 0 | 48 | yes | * | 72 | 96 | 343691 | 343692 |
| 24x2x3/2 | 1288 | 1 | 0 | 48 | yes | * | 96 | 128 | 343699 | 343700 |
| 24x2x3/2 | 1289 | 1 | 0 | 48 | yes | * | 120 | 160 | 343707 | 343708 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

# Order table

**Variant: 2x3/2-way valve island variant without filter regulator, with position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1202 | 2 | 0 | 32 | 32 | no | * | 24 | 32 | 321627 | 321628 |
| 8x2x3/2 | 1202 | 1 | 1 | 16 | 16 | no | * | 24 | 32 | 321631 | 321632 |
| 8x2x3/2 | 1203 | 2 | 0 | 32 | 32 | no | * | 48 | 64 | 321643 | 321644 |
| 8x2x3/2 | 1203 | 1 | 1 | 16 | 16 | no | * | 48 | 64 | 321647 | 321648 |
| 8x2x3/2 | 1204 | 2 | 0 | 32 | 32 | no | * | 72 | 96 | 321659 | 321660 |
| 8x2x3/2 | 1204 | 1 | 1 | 16 | 16 | no | * | 72 | 96 | 321663 | 321664 |
| 8x2x3/2 | 1205 | 2 | 0 | 32 | 32 | no | * | 96 | 128 | 321675 | 321676 |
| 8x2x3/2 | 1205 | 1 | 1 | 16 | 16 | no | * | 96 | 128 | 321679 | 321680 |
| 8x2x3/2 | 1206 | 2 | 0 | 32 | 32 | no | * | 120 | 160 | 343215 | 343216 |
| 8x2x3/2 | 1206 | 1 | 1 | 16 | 16 | no | * | 120 | 160 | 343219 | 343220 |
| 12x2x3/2 | 1222 | 2 | 0 | 48 | 48 | no | * | 24 | 32 | 343327 | 343328 |
| 12x2x3/2 | 1222 | 1 | 1 | 24 | 24 | no | * | 24 | 32 | 343331 | 343332 |
| 12x2x3/2 | 1223 | 2 | 0 | 48 | 48 | no | * | 48 | 64 | 343343 | 343344 |
| 12x2x3/2 | 1223 | 1 | 1 | 24 | 24 | no | * | 48 | 64 | 343347 | 343348 |
| 12x2x3/2 | 1224 | 2 | 0 | 48 | 48 | no | * | 72 | 96 | 343359 | 343360 |
| 12x2x3/2 | 1224 | 1 | 1 | 24 | 24 | no | * | 72 | 96 | 343363 | 343364 |
| 12x2x3/2 | 1225 | 2 | 0 | 48 | 48 | no | * | 96 | 128 | 343375 | 343376 |
| 12x2x3/2 | 1225 | 1 | 1 | 24 | 24 | no | * | 96 | 128 | 343379 | 343380 |
| 16x2x3/2 | 1242 | 2 | 0 | 64 | 64 | yes | * | 24 | 32 | 343455 | 343456 |
| 16x2x3/2 | 1242 | 1 | 1 | 32 | 32 | yes | * | 24 | 32 | 343459 | 343460 |
| 16x2x3/2 | 1243 | 2 | 0 | 64 | 64 | yes | * | 48 | 64 | 343471 | 343472 |
| 16x2x3/2 | 1243 | 1 | 1 | 32 | 32 | yes | * | 48 | 64 | 343475 | 343476 |
| 16x2x3/2 | 1245 | 1 | 0 | 32 | 32 | yes | * | 24 | 32 | 343495 | 343496 |
| 16x2x3/2 | 1246 | 1 | 0 | 32 | 32 | yes | * | 48 | 64 | 343503 | 343504 |
| 16x2x3/2 | 1247 | 1 | 0 | 32 | 32 | yes | * | 72 | 96 | 343511 | 343512 |
| 16x2x3/2 | 1248 | 1 | 0 | 32 | 32 | yes | * | 96 | 128 | 343519 | 343520 |
| 16x2x3/2 | 1249 | 1 | 0 | 32 | 32 | yes | * | 120 | 160 | 343527 | 343528 |
| 20x2x3/2 | 1265 | 1 | 0 | 40 | 40 | yes | * | 24 | 32 | 343591 | 343592 |
| 20x2x3/2 | 1266 | 1 | 0 | 40 | 40 | yes | * | 48 | 64 | 343599 | 343600 |
| 20x2x3/2 | 1267 | 1 | 0 | 40 | 40 | yes | * | 72 | 96 | 343607 | 343608 |
| 20x2x3/2 | 1268 | 1 | 0 | 40 | 40 | yes | * | 96 | 128 | 343615 | 343616 |
| 20x2x3/2 | 1269 | 1 | 0 | 40 | 40 | yes | * | 120 | 160 | 343623 | 343624 |
| 24x2x3/2 | 1285 | 1 | 0 | 48 | 48 | yes | * | 24 | 32 | 343679 | 343680 |
| 24x2x3/2 | 1286 | 1 | 0 | 48 | 48 | yes | * | 48 | 64 | 343687 | 343688 |
| 24x2x3/2 | 1287 | 1 | 0 | 48 | 48 | yes | * | 72 | 96 | 343695 | 343696 |
| 24x2x3/2 | 1288 | 1 | 0 | 48 | 48 | yes | * | 96 | 128 | 343703 | 343704 |
| 24x2x3/2 | 1289 | 1 | 0 | 48 | 48 | yes | * | 120 | 160 | 343711 | 343712 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

# Order table

**Variant: 5/2-way valve island variant without filter regulator, without position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1201 | 2 | 0 | 16 | no | * | 0 | 0 | 321613 | 321614 |
| 8x5/2 | 1201 | 1 | 1 | 8 | no | * | 0 | 0 | 321617 | 321618 |
| 8x5/2 | 1202 | 2 | 0 | 16 | no | * | 24 | 32 | 321621 | 321622 |
| 8x5/2 | 1202 | 1 | 1 | 8 | no | * | 24 | 32 | 321625 | 321626 |
| 8x5/2 | 1203 | 2 | 0 | 16 | no | * | 48 | 64 | 321637 | 321638 |
| 8x5/2 | 1203 | 1 | 1 | 8 | no | * | 48 | 64 | 321641 | 321642 |
| 8x5/2 | 1204 | 2 | 0 | 16 | no | * | 72 | 96 | 321653 | 321654 |
| 8x5/2 | 1204 | 1 | 1 | 8 | no | * | 72 | 96 | 321657 | 321658 |
| 8x5/2 | 1205 | 2 | 0 | 16 | no | * | 96 | 128 | 321669 | 321670 |
| 8x5/2 | 1205 | 1 | 1 | 8 | no | * | 96 | 128 | 321673 | 321674 |
| 8x5/2 | 1206 | 2 | 0 | 16 | no | * | 120 | 160 | 321685 | 321686 |
| 8x5/2 | 1206 | 1 | 1 | 8 | no | * | 120 | 160 | 343213 | 343214 |
| 12x5/2 | 1221 | 2 | 0 | 24 | no | * | 0 | 0 | 343313 | 343314 |
| 12x5/2 | 1221 | 1 | 1 | 12 | no | * | 0 | 0 | 343317 | 343318 |
| 12x5/2 | 1222 | 2 | 0 | 24 | no | * | 24 | 32 | 343321 | 343322 |
| 12x5/2 | 1222 | 1 | 1 | 12 | no | * | 24 | 32 | 343325 | 343326 |
| 12x5/2 | 1223 | 2 | 0 | 24 | no | * | 48 | 64 | 343337 | 343338 |
| 12x5/2 | 1223 | 1 | 1 | 12 | no | * | 48 | 64 | 343341 | 343342 |
| 12x5/2 | 1224 | 2 | 0 | 24 | no | * | 72 | 96 | 343353 | 343354 |
| 12x5/2 | 1224 | 1 | 1 | 12 | no | * | 72 | 96 | 343357 | 343358 |
| 12x5/2 | 1225 | 2 | 0 | 24 | no | * | 96 | 128 | 343369 | 343370 |
| 12x5/2 | 1225 | 1 | 1 | 12 | no | * | 96 | 128 | 343373 | 343374 |
| 16x5/2 | 1241 | 2 | 0 | 32 | yes | * | 0 | 0 | 343441 | 343442 |
| 16x5/2 | 1241 | 1 | 1 | 16 | yes | * | 0 | 0 | 343445 | 343446 |
| 16x5/2 | 1242 | 2 | 0 | 32 | yes | * | 24 | 32 | 343449 | 343450 |
| 16x5/2 | 1242 | 1 | 1 | 16 | yes | * | 24 | 32 | 343453 | 343454 |
| 16x5/2 | 1243 | 2 | 0 | 32 | yes | * | 48 | 64 | 343465 | 343466 |
| 16x5/2 | 1243 | 1 | 1 | 16 | yes | * | 48 | 64 | 343469 | 343470 |
| 16x5/2 | 1244 | 1 | 0 | 16 | yes | * | 0 | 0 | 343489 | 343490 |
| 16x5/2 | 1245 | 1 | 0 | 16 | yes | * | 24 | 32 | 343493 | 343494 |
| 16x5/2 | 1246 | 1 | 0 | 16 | yes | * | 48 | 64 | 343501 | 343502 |
| 16x5/2 | 1247 | 1 | 0 | 16 | yes | * | 72 | 96 | 343509 | 343510 |
| 16x5/2 | 1248 | 1 | 0 | 16 | yes | * | 96 | 128 | 343517 | 343518 |
| 16x5/2 | 1249 | 1 | 0 | 16 | yes | * | 120 | 160 | 343525 | 343526 |
| 20x5/2 | 1261 | 2 | 0 | 40 | yes | * | 0 | 0 | 343577 | 343578 |
| 20x5/2 | 1261 | 1 | 1 | 20 | yes | * | 0 | 0 | 343581 | 343582 |
| 20x5/2 | 1264 | 1 | 0 | 20 | yes | * | 0 | 0 | 343585 | 343586 |
| 20x5/2 | 1265 | 1 | 0 | 20 | yes | * | 24 | 32 | 343589 | 343590 |
| 20x5/2 | 1266 | 1 | 0 | 20 | yes | * | 48 | 64 | 343597 | 343598 |
| 20x5/2 | 1267 | 1 | 0 | 20 | yes | * | 72 | 96 | 343605 | 343606 |
| 20x5/2 | 1268 | 1 | 0 | 20 | yes | * | 96 | 128 | 343613 | 343614 |
| 20x5/2 | 1269 | 1 | 0 | 20 | yes | * | 120 | 160 | 343621 | 343622 |
| 24x5/2 | 1284 | 1 | 0 | 24 | yes | * | 0 | 0 | 343673 | 343674 |
| 24x5/2 | 1285 | 1 | 0 | 24 | yes | * | 24 | 32 | 343677 | 343678 |
| 24x5/2 | 1286 | 1 | 0 | 24 | yes | * | 48 | 64 | 343685 | 343686 |
| 24x5/2 | 1287 | 1 | 0 | 24 | yes | * | 72 | 96 | 343693 | 343694 |
| 24x5/2 | 1288 | 1 | 0 | 24 | yes | * | 96 | 128 | 343701 | 343702 |
| 24x5/2 | 1289 | 1 | 0 | 24 | yes | * | 120 | 160 | 343709 | 343710 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

# Order table

**Variant: 5/2-way valve island variant without filter regulator, with position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1202 | 2 | 0 | 16 | 32 | no | * | 24 | 32 | 321629 | 321630 |
| 8x5/2 | 1202 | 1 | 1 | 8 | 16 | no | * | 24 | 32 | 321633 | 321634 |
| 8x5/2 | 1203 | 2 | 0 | 16 | 32 | no | * | 48 | 64 | 321645 | 321646 |
| 8x5/2 | 1203 | 1 | 1 | 8 | 16 | no | * | 48 | 64 | 321649 | 321650 |
| 8x5/2 | 1204 | 2 | 0 | 16 | 32 | no | * | 72 | 96 | 321661 | 321662 |
| 8x5/2 | 1204 | 1 | 1 | 8 | 16 | no | * | 72 | 96 | 321665 | 321666 |
| 8x5/2 | 1205 | 2 | 0 | 16 | 32 | no | * | 96 | 128 | 321677 | 321678 |
| 8x5/2 | 1205 | 1 | 1 | 8 | 16 | no | * | 96 | 128 | 321681 | 321682 |
| 8x5/2 | 1206 | 2 | 0 | 16 | 32 | no | * | 120 | 160 | 343217 | 343218 |
| 8x5/2 | 1206 | 1 | 1 | 8 | 16 | no | * | 120 | 160 | 343221 | 343222 |
| 12x5/2 | 1222 | 2 | 0 | 24 | 48 | no | * | 24 | 32 | 343329 | 343330 |
| 12x5/2 | 1222 | 1 | 1 | 12 | 24 | no | * | 24 | 32 | 343333 | 343334 |
| 12x5/2 | 1223 | 2 | 0 | 24 | 48 | no | * | 48 | 64 | 343345 | 343346 |
| 12x5/2 | 1223 | 1 | 1 | 12 | 24 | no | * | 48 | 64 | 343349 | 343350 |
| 12x5/2 | 1224 | 2 | 0 | 24 | 48 | no | * | 72 | 96 | 343361 | 343362 |
| 12x5/2 | 1224 | 1 | 1 | 12 | 24 | no | * | 72 | 96 | 343365 | 343366 |
| 12x5/2 | 1225 | 2 | 0 | 24 | 48 | no | * | 96 | 128 | 343377 | 343378 |
| 12x5/2 | 1225 | 1 | 1 | 12 | 24 | no | * | 96 | 128 | 343381 | 343382 |
| 16x5/2 | 1242 | 2 | 0 | 32 | 64 | yes | * | 24 | 32 | 343457 | 343458 |
| 16x5/2 | 1242 | 1 | 1 | 16 | 32 | yes | * | 24 | 32 | 343461 | 343462 |
| 16x5/2 | 1243 | 2 | 0 | 32 | 64 | yes | * | 48 | 64 | 343473 | 343474 |
| 16x5/2 | 1243 | 1 | 1 | 16 | 32 | yes | * | 48 | 64 | 343477 | 343478 |
| 16x5/2 | 1245 | 1 | 0 | 16 | 32 | yes | * | 24 | 32 | 343497 | 343498 |
| 16x5/2 | 1246 | 1 | 0 | 16 | 32 | yes | * | 48 | 64 | 343505 | 343506 |
| 16x5/2 | 1247 | 1 | 0 | 16 | 32 | yes | * | 72 | 96 | 343513 | 343514 |
| 16x5/2 | 1248 | 1 | 0 | 16 | 32 | yes | * | 96 | 128 | 343521 | 343522 |
| 16x5/2 | 1249 | 1 | 0 | 16 | 32 | yes | * | 120 | 160 | 343529 | 343530 |
| 20x5/2 | 1265 | 1 | 0 | 20 | 40 | yes | * | 24 | 32 | 343593 | 343594 |
| 20x5/2 | 1266 | 1 | 0 | 20 | 40 | yes | * | 48 | 64 | 343601 | 343602 |
| 20x5/2 | 1267 | 1 | 0 | 20 | 40 | yes | * | 72 | 96 | 343609 | 343610 |
| 20x5/2 | 1268 | 1 | 0 | 20 | 40 | yes | * | 96 | 128 | 343617 | 343618 |
| 20x5/2 | 1269 | 1 | 0 | 20 | 40 | yes | * | 120 | 160 | 343625 | 343626 |
| 24x5/2 | 1285 | 1 | 0 | 24 | 48 | yes | * | 24 | 32 | 343681 | 343682 |
| 24x5/2 | 1286 | 1 | 0 | 24 | 48 | yes | * | 48 | 64 | 343689 | 343690 |
| 24x5/2 | 1287 | 1 | 0 | 24 | 48 | yes | * | 72 | 96 | 343697 | 343698 |
| 24x5/2 | 1288 | 1 | 0 | 24 | 48 | yes | * | 96 | 128 | 343705 | 343706 |
| 24x5/2 | 1289 | 1 | 0 | 24 | 48 | yes | * | 120 | 160 | 343713 | 343714 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

## Order table

**Variant: 2x3/2-way-valve island variant with filter regulator, without position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Middle feed valve island | Max. Cross-section field I/O ($mm^2$) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1208 | 2 | 0 | 32 | no | * | 0 | 0 | 343223 | 343224 |
| 8x2x3/2 | 1208 | 1 | 1 | 16 | no | * | 0 | 0 | 343227 | 343228 |
| 8x2x3/2 | 1209 | 2 | 0 | 32 | no | * | 24 | 32 | 343231 | 343232 |
| 8x2x3/2 | 1209 | 1 | 1 | 16 | no | * | 24 | 32 | 343235 | 343236 |
| 8x2x3/2 | 1210 | 2 | 0 | 32 | no | * | 48 | 64 | 343247 | 343248 |
| 8x2x3/2 | 1210 | 1 | 1 | 16 | no | * | 48 | 64 | 343251 | 343252 |
| 8x2x3/2 | 1211 | 2 | 0 | 32 | no | * | 72 | 96 | 343263 | 343264 |
| 8x2x3/2 | 1211 | 1 | 1 | 16 | no | * | 72 | 96 | 343267 | 343268 |
| 8x2x3/2 | 1212 | 2 | 0 | 32 | no | * | 96 | 128 | 343279 | 343280 |
| 8x2x3/2 | 1212 | 1 | 1 | 16 | no | * | 96 | 128 | 343283 | 343284 |
| 8x2x3/2 | 1213 | 2 | 0 | 32 | no | * | 120 | 160 | 343295 | 343296 |
| 8x2x3/2 | 1213 | 1 | 1 | 16 | no | * | 120 | 160 | 343299 | 343300 |
| 12x2x3/2 | 1228 | 2 | 0 | 48 | no | * | 0 | 0 | 343383 | 343384 |
| 12x2x3/2 | 1228 | 1 | 1 | 24 | no | * | 0 | 0 | 343387 | 343388 |
| 12x2x3/2 | 1229 | 2 | 0 | 48 | no | * | 24 | 32 | 343391 | 343392 |
| 12x2x3/2 | 1229 | 1 | 1 | 24 | no | * | 24 | 32 | 343395 | 343396 |
| 12x2x3/2 | 1230 | 2 | 0 | 48 | no | * | 48 | 64 | 343407 | 343408 |
| 12x2x3/2 | 1230 | 1 | 1 | 24 | no | * | 48 | 64 | 343411 | 343412 |
| 12x2x3/2 | 1231 | 2 | 0 | 48 | no | * | 72 | 96 | 343423 | 343424 |
| 12x2x3/2 | 1231 | 1 | 1 | 24 | no | * | 72 | 96 | 343427 | 343428 |
| 16x2x3/2 | 1258 | 2 | 0 | 64 | yes | * | 0 | 0 | 343479 | 343480 |
| 16x2x3/2 | 1258 | 1 | 1 | 32 | yes | * | 0 | 0 | 343483 | 343484 |
| 16x2x3/2 | 1250 | 1 | 0 | 32 | yes | * | 0 | 0 | 343531 | 343532 |
| 16x2x3/2 | 1251 | 1 | 0 | 32 | yes | * | 24 | 32 | 343535 | 343536 |
| 16x2x3/2 | 1252 | 1 | 0 | 32 | yes | * | 48 | 64 | 343543 | 343544 |
| 16x2x3/2 | 1253 | 1 | 0 | 32 | yes | * | 72 | 96 | 343551 | 343552 |
| 16x2x3/2 | 1254 | 1 | 0 | 32 | yes | * | 96 | 128 | 343559 | 343560 |
| 16x2x3/2 | 1255 | 1 | 0 | 32 | yes | * | 120 | 160 | 343567 | 343568 |
| 20x2x3/2 | 1270 | 1 | 0 | 40 | yes | * | 0 | 0 | 343627 | 343628 |
| 20x2x3/2 | 1271 | 1 | 0 | 40 | yes | * | 24 | 32 | 343631 | 343632 |
| 20x2x3/2 | 1272 | 1 | 0 | 40 | yes | * | 48 | 64 | 343639 | 343640 |
| 20x2x3/2 | 1273 | 1 | 0 | 40 | yes | * | 72 | 96 | 343647 | 343648 |
| 20x2x3/2 | 1274 | 1 | 0 | 40 | yes | * | 96 | 128 | 343655 | 343656 |
| 20x2x3/2 | 1275 | 1 | 0 | 40 | yes | * | 120 | 160 | 343663 | 343664 |
| 24x2x3/2 | 1290 | 1 | 0 | 48 | yes | * | 0 | 0 | 343715 | 343716 |
| 24x2x3/2 | 1291 | 1 | 0 | 48 | yes | * | 24 | 32 | 343719 | 343720 |
| 24x2x3/2 | 1292 | 1 | 0 | 48 | yes | * | 48 | 64 | 343727 | 343728 |
| 24x2x3/2 | 1293 | 1 | 0 | 48 | yes | * | 72 | 96 | 343735 | 343736 |
| 24x2x3/2 | 1294 | 1 | 0 | 48 | yes | * | 96 | 128 | 343743 | 343744 |
| 24x2x3/2 | 1295 | 1 | 0 | 48 | yes | * | 120 | 160 | 343751 | 343752 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

# Order table

**Variant: 2x3/2-way valve island variant with filter regulator, with position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 1209 | 2 | 0 | 32 | 32 | no | * | 24 | 32 | 343239 | 343240 |
| 8x2x3/2 | 1209 | 1 | 1 | 16 | 16 | no | * | 24 | 32 | 343243 | 343244 |
| 8x2x3/2 | 1210 | 2 | 0 | 32 | 32 | no | * | 48 | 64 | 343255 | 343256 |
| 8x2x3/2 | 1210 | 1 | 1 | 16 | 16 | no | * | 48 | 64 | 343259 | 343260 |
| 8x2x3/2 | 1211 | 2 | 0 | 32 | 32 | no | * | 72 | 96 | 343271 | 343272 |
| 8x2x3/2 | 1211 | 1 | 1 | 16 | 16 | no | * | 72 | 96 | 343275 | 343276 |
| 8x2x3/2 | 1212 | 2 | 0 | 32 | 32 | no | * | 96 | 128 | 343287 | 343288 |
| 8x2x3/2 | 1212 | 1 | 1 | 16 | 16 | no | * | 96 | 128 | 343291 | 343292 |
| 8x2x3/2 | 1213 | 2 | 0 | 32 | 32 | no | * | 120 | 160 | 343303 | 343304 |
| 8x2x3/2 | 1213 | 1 | 1 | 16 | 16 | no | * | 120 | 160 | 343307 | 343308 |
| 12x2x3/2 | 1229 | 2 | 0 | 48 | 48 | no | * | 24 | 32 | 343399 | 343400 |
| 12x2x3/2 | 1229 | 1 | 1 | 24 | 24 | no | * | 24 | 32 | 343403 | 343404 |
| 12x2x3/2 | 1230 | 2 | 0 | 48 | 48 | no | * | 48 | 64 | 343415 | 343416 |
| 12x2x3/2 | 1230 | 1 | 1 | 24 | 24 | no | * | 48 | 64 | 343419 | 343420 |
| 12x2x3/2 | 1231 | 2 | 0 | 48 | 48 | no | * | 72 | 96 | 343431 | 343432 |
| 12x2x3/2 | 1231 | 1 | 1 | 24 | 24 | no | * | 72 | 96 | 343435 | 343436 |
| 16x2x3/2 | 1251 | 1 | 0 | 32 | 32 | yes | * | 24 | 32 | 343539 | 343540 |
| 16x2x3/2 | 1252 | 1 | 0 | 32 | 32 | yes | * | 48 | 64 | 343547 | 343548 |
| 16x2x3/2 | 1253 | 1 | 0 | 32 | 32 | yes | * | 72 | 96 | 343555 | 343556 |
| 16x2x3/2 | 1254 | 1 | 0 | 32 | 32 | yes | * | 96 | 128 | 343563 | 343564 |
| 16x2x3/2 | 1255 | 1 | 0 | 32 | 32 | yes | * | 120 | 160 | 343571 | 343572 |
| 20x2x3/2 | 1271 | 1 | 0 | 40 | 40 | yes | * | 24 | 32 | 343635 | 343636 |
| 20x2x3/2 | 1272 | 1 | 0 | 40 | 40 | yes | * | 48 | 64 | 343643 | 343644 |
| 20x2x3/2 | 1273 | 1 | 0 | 40 | 40 | yes | * | 72 | 96 | 343651 | 343652 |
| 20x2x3/2 | 1274 | 1 | 0 | 40 | 40 | yes | * | 96 | 128 | 343659 | 343660 |
| 20x2x3/2 | 1275 | 1 | 0 | 40 | 40 | yes | * | 120 | 160 | 343667 | 343668 |
| 24x2x3/2 | 1291 | 1 | 0 | 48 | 48 | yes | * | 24 | 32 | 343723 | 343724 |
| 24x2x3/2 | 1292 | 1 | 0 | 48 | 48 | yes | * | 48 | 64 | 343731 | 343732 |
| 24x2x3/2 | 1293 | 1 | 0 | 48 | 48 | yes | * | 72 | 96 | 343739 | 343740 |
| 24x2x3/2 | 1294 | 1 | 0 | 48 | 48 | yes | * | 96 | 128 | 343747 | 343748 |
| 24x2x3/2 | 1295 | 1 | 0 | 48 | 48 | yes | * | 120 | 160 | 343755 | 343756 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

## Order table

**Variant: 5/2-way valve island variant with filter regulator, without position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1208 | 2 | 0 | 16 | no | * | 0 | 0 | 343225 | 343226 |
| 8x5/2 | 1208 | 1 | 1 | 8 | no | * | 0 | 0 | 343229 | 343230 |
| 8x5/2 | 1209 | 2 | 0 | 16 | no | * | 24 | 32 | 343233 | 343234 |
| 8x5/2 | 1209 | 1 | 1 | 8 | no | * | 24 | 32 | 343237 | 343238 |
| 8x5/2 | 1210 | 2 | 0 | 16 | no | * | 48 | 64 | 343249 | 343250 |
| 8x5/2 | 1210 | 1 | 1 | 8 | no | * | 48 | 64 | 343253 | 343254 |
| 8x5/2 | 1211 | 2 | 0 | 16 | no | * | 72 | 96 | 343265 | 343266 |
| 8x5/2 | 1211 | 1 | 1 | 8 | no | * | 72 | 96 | 343269 | 343270 |
| 8x5/2 | 1212 | 2 | 0 | 16 | no | * | 96 | 128 | 343281 | 343282 |
| 8x5/2 | 1212 | 1 | 1 | 8 | no | * | 96 | 128 | 343285 | 343286 |
| 8x5/2 | 1213 | 2 | 0 | 16 | no | * | 120 | 160 | 343297 | 343298 |
| 8x5/2 | 1213 | 1 | 1 | 8 | no | * | 120 | 160 | 343301 | 343302 |
| 12x5/2 | 1228 | 2 | 0 | 24 | no | * | 0 | 0 | 343385 | 343386 |
| 12x5/2 | 1228 | 1 | 1 | 12 | no | * | 0 | 0 | 343389 | 343390 |
| 12x5/2 | 1229 | 2 | 0 | 24 | no | * | 24 | 32 | 343393 | 343394 |
| 12x5/2 | 1229 | 1 | 1 | 12 | no | * | 24 | 32 | 343397 | 343398 |
| 12x5/2 | 1230 | 2 | 0 | 24 | no | * | 48 | 64 | 343409 | 343410 |
| 12x5/2 | 1230 | 1 | 1 | 12 | no | * | 48 | 64 | 343413 | 343414 |
| 12x5/2 | 1231 | 2 | 0 | 24 | no | * | 72 | 96 | 343425 | 343426 |
| 12x5/2 | 1231 | 1 | 1 | 12 | no | * | 72 | 96 | 343429 | 343430 |
| 16x5/2 | 1258 | 2 | 0 | 32 | yes | * | 0 | 0 | 343481 | 343482 |
| 16x5/2 | 1258 | 1 | 1 | 16 | yes | * | 0 | 0 | 343485 | 343486 |
| 16x5/2 | 1250 | 1 | 0 | 16 | yes | * | 0 | 0 | 343533 | 343534 |
| 16x5/2 | 1251 | 1 | 0 | 16 | yes | * | 24 | 32 | 343537 | 343538 |
| 16x5/2 | 1252 | 1 | 0 | 16 | yes | * | 48 | 64 | 343545 | 343546 |
| 16x5/2 | 1253 | 1 | 0 | 16 | yes | * | 72 | 96 | 343553 | 343554 |
| 16x5/2 | 1254 | 1 | 0 | 16 | yes | * | 96 | 128 | 343561 | 343562 |
| 16x5/2 | 1255 | 1 | 0 | 16 | yes | * | 120 | 160 | 343569 | 343570 |
| 20x5/2 | 1270 | 1 | 0 | 20 | yes | * | 0 | 0 | 343629 | 343630 |
| 20x5/2 | 1271 | 1 | 0 | 20 | yes | * | 24 | 32 | 343633 | 343634 |
| 20x5/2 | 1272 | 1 | 0 | 20 | yes | * | 48 | 64 | 343641 | 343642 |
| 20x5/2 | 1273 | 1 | 0 | 20 | yes | * | 72 | 96 | 343649 | 343650 |
| 20x5/2 | 1274 | 1 | 0 | 20 | yes | * | 96 | 128 | 343657 | 343658 |
| 20x5/2 | 1275 | 1 | 0 | 20 | yes | * | 120 | 160 | 343665 | 343666 |
| 24x5/2 | 1290 | 1 | 0 | 24 | yes | * | 0 | 0 | 343717 | 343718 |
| 24x5/2 | 1291 | 1 | 0 | 24 | yes | * | 24 | 32 | 343721 | 343722 |
| 24x5/2 | 1292 | 1 | 0 | 24 | yes | * | 48 | 64 | 343729 | 343730 |
| 24x5/2 | 1293 | 1 | 0 | 24 | yes | * | 72 | 96 | 343737 | 343738 |
| 24x5/2 | 1294 | 1 | 0 | 24 | yes | * | 96 | 128 | 343745 | 343746 |
| 24x5/2 | 1295 | 1 | 0 | 24 | yes | * | 120 | 160 | 343753 | 343754 |

* Note the specifications of the I/O system manufacturer

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

# Order table

**Variant: 5/2-way valve island variant with filter regulator, with position feedback inputs on valve island**

| Valve island variant | Hole pattern see P. 34-35 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Middle feed valve island | Max. Cross-section field I/O (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Ident. number Industrial Ethernet | Ident. number Profibus DP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 1209 | 2 | 0 | 16 | 32 | no | * | 24 | 32 | 343241 | 343242 |
| 8x5/2 | 1209 | 1 | 1 | 8 | 16 | no | * | 24 | 32 | 343245 | 343246 |
| 8x5/2 | 1210 | 2 | 0 | 16 | 32 | no | * | 48 | 64 | 343257 | 343258 |
| 8x5/2 | 1210 | 1 | 1 | 8 | 16 | no | * | 48 | 64 | 343261 | 343262 |
| 8x5/2 | 1211 | 2 | 0 | 16 | 32 | no | * | 72 | 96 | 343273 | 343274 |
| 8x5/2 | 1211 | 1 | 1 | 8 | 16 | no | * | 72 | 96 | 343277 | 343278 |
| 8x5/2 | 1212 | 2 | 0 | 16 | 32 | no | * | 96 | 128 | 343289 | 343290 |
| 8x5/2 | 1212 | 1 | 1 | 8 | 16 | no | * | 96 | 128 | 343293 | 343294 |
| 8x5/2 | 1213 | 2 | 0 | 16 | 32 | no | * | 120 | 160 | 343305 | 343306 |
| 8x5/2 | 1213 | 1 | 1 | 8 | 16 | no | * | 120 | 160 | 343309 | 343310 |
| 12x5/2 | 1229 | 2 | 0 | 24 | 48 | no | * | 24 | 32 | 343401 | 343402 |
| 12x5/2 | 1229 | 1 | 1 | 12 | 24 | no | * | 24 | 32 | 343405 | 343406 |
| 12x5/2 | 1230 | 2 | 0 | 24 | 48 | no | * | 48 | 64 | 343417 | 343418 |
| 12x5/2 | 1230 | 1 | 1 | 12 | 24 | no | * | 48 | 64 | 343421 | 343422 |
| 12x5/2 | 1231 | 2 | 0 | 24 | 48 | no | * | 72 | 96 | 343433 | 343434 |
| 12x5/2 | 1231 | 1 | 1 | 12 | 24 | no | * | 72 | 96 | 343437 | 343438 |
| 16x5/2 | 1251 | 1 | 0 | 16 | 32 | yes | * | 24 | 32 | 343541 | 343542 |
| 16x5/2 | 1252 | 1 | 0 | 16 | 32 | yes | * | 48 | 64 | 343549 | 343550 |
| 16x5/2 | 1253 | 1 | 0 | 16 | 32 | yes | * | 72 | 96 | 343557 | 343558 |
| 16x5/2 | 1254 | 1 | 0 | 16 | 32 | yes | * | 96 | 128 | 343565 | 343566 |
| 16x5/2 | 1255 | 1 | 0 | 16 | 32 | yes | * | 120 | 160 | 343573 | 343574 |
| 20x5/2 | 1271 | 1 | 0 | 20 | 40 | yes | * | 24 | 32 | 343637 | 343638 |
| 20x5/2 | 1272 | 1 | 0 | 20 | 40 | yes | * | 48 | 64 | 343645 | 343646 |
| 20x5/2 | 1273 | 1 | 0 | 20 | 40 | yes | * | 72 | 96 | 343653 | 343654 |
| 20x5/2 | 1274 | 1 | 0 | 20 | 40 | yes | * | 96 | 128 | 343661 | 343662 |
| 20x5/2 | 1275 | 1 | 0 | 20 | 40 | yes | * | 120 | 160 | 343669 | 343670 |
| 24x5/2 | 1291 | 1 | 0 | 24 | 48 | yes | * | 24 | 32 | 343725 | 343726 |
| 24x5/2 | 1292 | 1 | 0 | 24 | 48 | yes | * | 48 | 64 | 343733 | 343734 |
| 24x5/2 | 1293 | 1 | 0 | 24 | 48 | yes | * | 72 | 96 | 343741 | 343742 |
| 24x5/2 | 1294 | 1 | 0 | 24 | 48 | yes | * | 96 | 128 | 343749 | 343750 |
| 24x5/2 | 1295 | 1 | 0 | 24 | 48 | yes | * | 120 | 160 | 343757 | 343758 |

* Note the specifications of the I/O system manufacturer

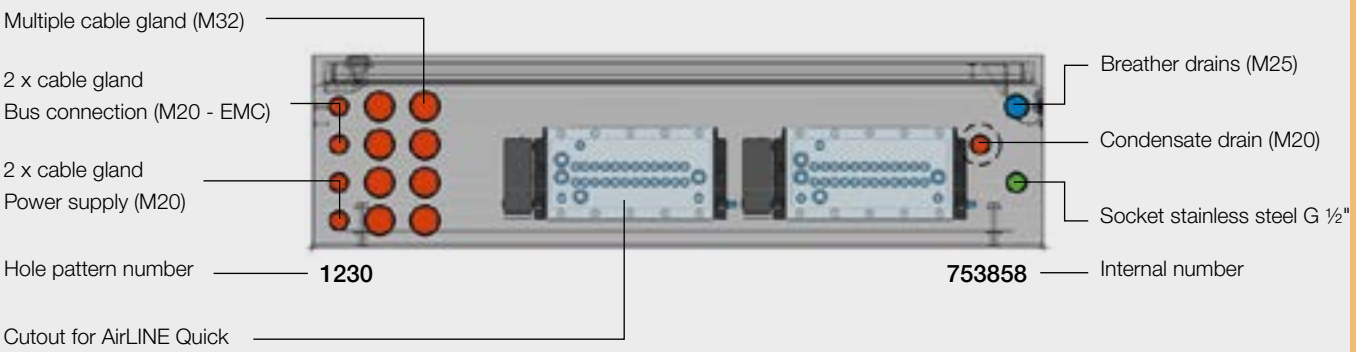
**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8652, installation width 810 mm

## Description of hole pattern



Automation system Type 8614 with valve island Type 8652, installation width 810 mm

## Hole patterns

8-fold valve island
Type 8652
Installation width 810


1201 753839


1202 753840


1203 753841


1204 753842


1205 753843


1206 753844


1208 753845


1209 753846


1210 753847


1211 753848


1212 753849


1213 753850

12-fold valve island
Type 8652
Installation width 810


1221 753851


1222 753852


1223 753853


1224 753854


1225 753855


1228 753856


1229 753857


1230 753858


1231 753859

16-fold valve island (w. IF)
Type 8652
Installation width 810


1241 753860


1242 753861


1243 753862

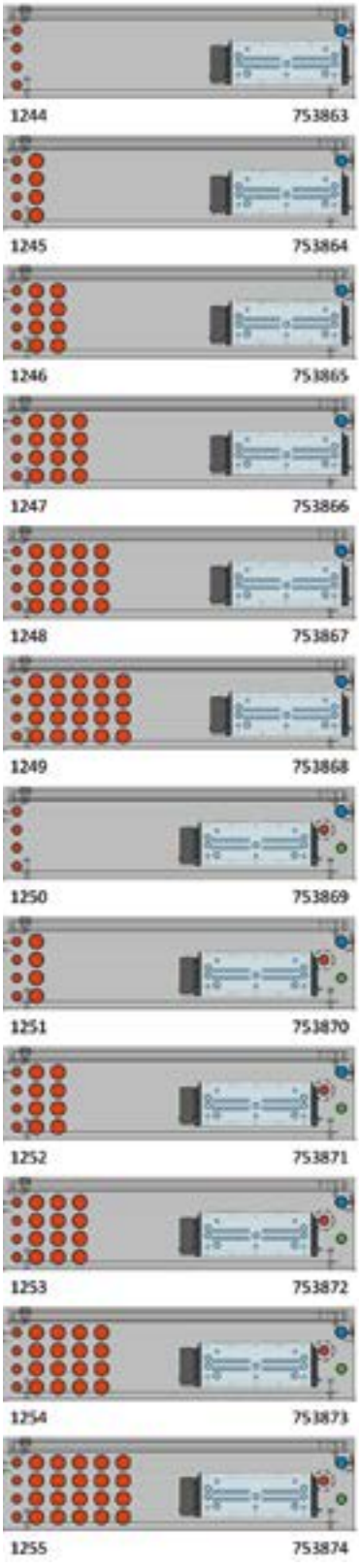

1258 753900

w. IF = with intermediate feed

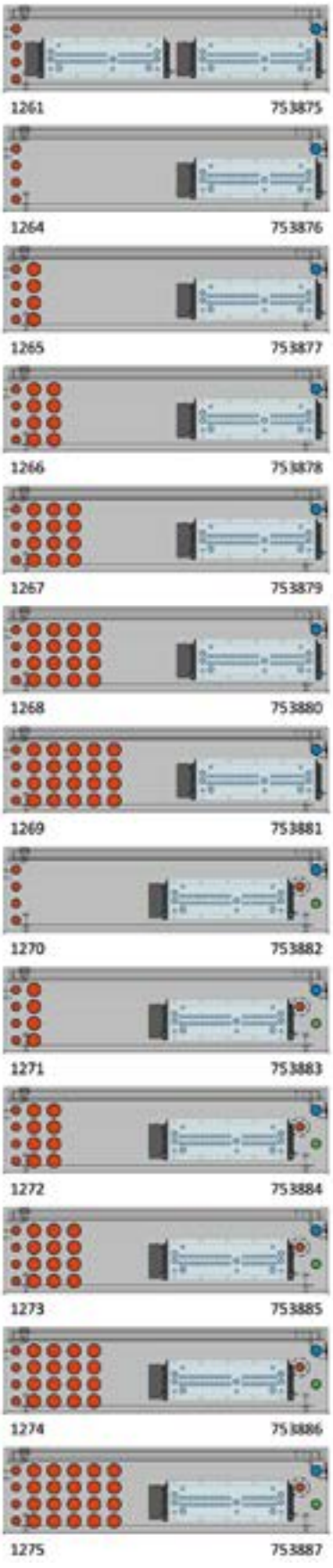
Automation system Type 8614 with valve island Type 8652, installation width 810 mm

## Hole patterns

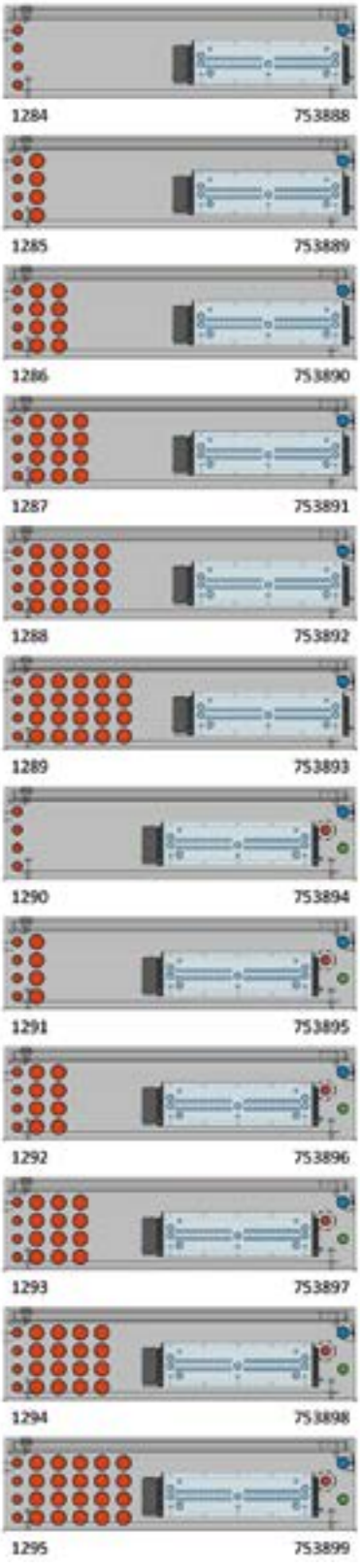
16-fold valve island (w. IF)
Type 8652
Installation width 810




20-fold valve island (w. IF)
Type 8652
Installation width 810

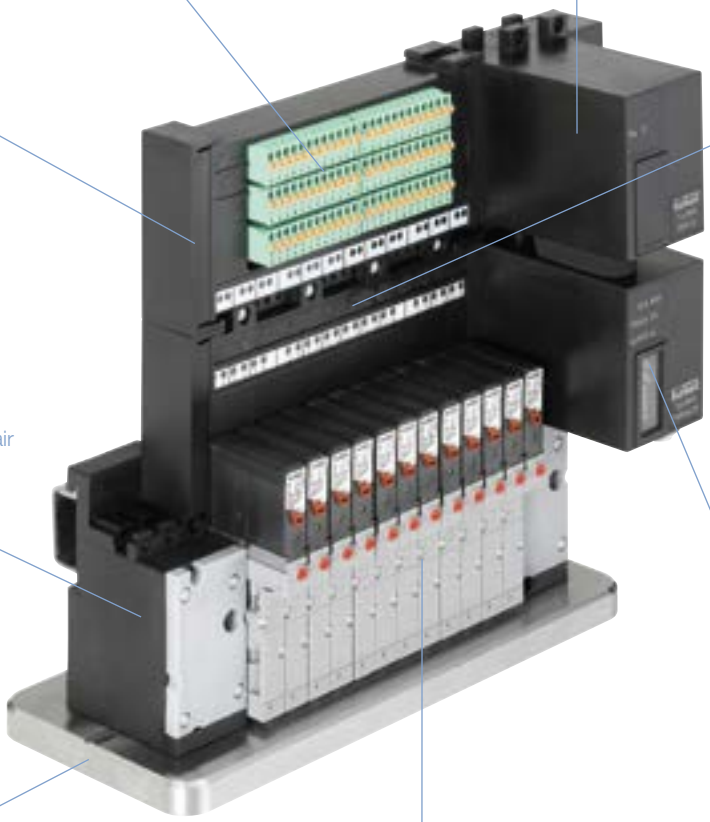



24-fold valve island (w. IF)
Type 8652
Installation width 810



# The valve island Type 8640 AirLINE Quick

## Automation for high process reliability and system availability



**Digital position feedback inputs**

**Extension module for digital inputs**

**Connection module for electronic modules**

**Electr. basic modules for powering the Valves**

**Pneumatic side feed (on both sides):**

- Combined supply of valves with compressed air and for the collective venting of valves

**Communication module:**

**Fieldbus technology:**

- Profibus DP
- Profinet I/O
- Ethernet/IP
- Modbus TCP

**Conventional connection technology:**

- Multipole
- collective socket

**AirLINE Quick adapter Stainless steel incl. push-in connector Ø 6/4 mm**

**Up to 24 valve functions on one valve block in different combinations possible:**

- 3/2-on/off valves
- 5/2-on/off valves
- 2x3/2-on/off valves

# The valve island Type 8640 AirLINE Quick

## Automation for high process reliability and system availability

The valve island system Type 8640 is suitable for solving varied and complex control tasks thanks to its consistent modular structure with regard to pneumatic and electrical interfaces. The arrangement of pneumatic modules with varying numbers of valves alongside one other makes it possible to realise 2 to 24 valve functions on a valve island. The electrical connection technology can be implemented either using fieldbus interfaces, collective connections (parallel connection technology) or multipole interfaces. The valves allow different application possibilities. Housing and connection modules are manufactured from high-quality plastic (polyamide) and are easy to connect and release thanks to the built-in interlocking technology.

### Features

- High plant availability thanks to integrated hot-swap function (P shutoff)
- High process reliability through integrated check valves in the R and S channel
- Option digital inputs for position feedback sensors, assigned to the pneumatic valves
- Stainless steel AirLINE Quick adapter
- Standardised, modular structure using 8-fold design with 8, 16 or 24 valve functions
- Short delivery times for a defined standard range (in some cases from stock)

Type 8640 8x6524 Profibus

AirLINE Quick adapter

# AirLINE Quick Type 8640 with 3/2- and 5/2-way function

## including process safety functions, pneumatic hot swap and check valves

AirLINE Quick serves as the bridge between centralised and decentralised automation concepts. Fitted with a stainless-steel flange plate, the AirLINE Quick can be mounted on the bottom of a housing. In this case, the installation is in the immediate vicinity of the process or the machine surroundings. This reduces the distance to the actuator in the field.

### AirLINE Quick offers:

- Reduction of the distance to valves directly in the cleaning environment
- Cost savings due to fewer cables and pneumatic hoses in the valve body
- Time savings due to quicker installation in the valve body
- Space savings due to smaller valve body

| Application areas |
|---|
| For hygienic applications using AirLINE Quick in stainless steel |

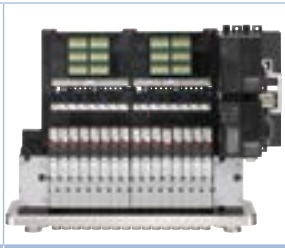
| Functions | |
|---|---|
| With pneumatic hot-swap function | |
| With check valves in the R and S channel | |
| Flow rate of the valves (QNn-value) | 150 l/min |
| Pressure range | 2.5 – 10 bar |
| Pneumatic feed | G ¼" |
| Pneumatic working ports | 6 mm push-in |

# Order table for valve islands

| Figures showing the possible electrical connection technology | |  |  |  |  |  |
|---|---|---|---|---|---|---|
| **Valve functions** | **Digital Inputs** | **Profinet I/O** | **Ethernet/IP** | **Profibus DP** | **Collective connection** | **Multipole** |
| 4x2x3/2 | | * | * | * | 247991 | 248000 |
| 8x2x3/2 | | 253444 | 262477 | 230709 | 231113 | 230859 |
| 8x2x3/2 | 16 | 253538 | 262473 | 230714 | ** | 230870 |
| 12x2x3/2 | | 253543 | 262485 | 230808 | 230845 | 230840 |
| 12x2x3/2 | 24 | 253555 | 262515 | 230154 | ** | 230842 |
| 16x3/2 | | 298054 | 298059 | 287231 | 298061 | 298063 |
| 16x3/2 | 32 | 290053 | 298039 | 220607 | ** | 298040 |
| 16x5/2 | | 253559 | 262525 | 247617 | 247626 | 247894 |
| 16x5/2 | 32 | 253563 | 262533 | 247620 | ** | 247900 |

* on request
** Technically not possible

## Examples

|  |  |  |  |
|---|---|---|---|
| Type 8640 AirLINE Quick with 4x2x3/2 on/off valves with multipole | Type 8640 AirLINE Quick with 8x2x3/2 on/off valves with Profibus DP and 16 digital Position feedback inputs | Type 8640 AirLINE Quick with 12x2x3/2 on/off valves with Profibus DP and 24 digital Position feedback inputs | Type 8640 AirLINE Quick with 16x5/2 on/off valves with Profibus DP and 32 digital Position feedback inputs |

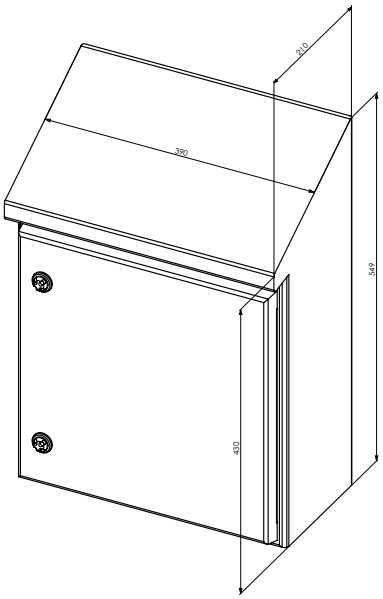
## Installation width 390 mm

Max. expansion variant:

- One valve island
- 12x2x3/2-way function
  24 digital position feedback inputs
- 16x3/2- or 5/2-way function
  32 digital position feedback inputs*

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 390 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 60 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | 1.5 $mm^2$/0.5 $mm^{2**}$ |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 25 kg |




* see order table
** see order table

Automation system Type 8614 with valve island Type 8640, installation width 390 mm

# Order table

**Variant: 2x3/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 43 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 102 | 16 | 16 | 0.14…0.5 | 24 | - | - | - | 275662 | 275663 |
| 8x2x3/2 | 104 | 16 | - | - | - | - | + | + | 275670 | 275671 |
| 8x2x3/2 | 102 | 16 | - | - | 24 | - | + | - | 275672 | 275673 |
| 8x2x3/2 | 103 | 16 | - | - | 48 | - | + | - | 275674 | 275675 |
| 12x2x3/2 | 111 | 24 | 24 | 0.14…0.5 | 24 | - | - | - | 275660 | 275661 |
| 12x2x3/2 | 110 | 24 | - | - | - | - | + | - | 275664 | 275665 |
| 12x2x3/2 | 111 | 24 | - | - | 24 | - | + | - | 275666 | 275667 |
| 12x2x3/2 | 112 | 24 | - | - | 48 | - | + | - | 275668 | 275669 |
| 12x2x3/2 | 112 | 24 | – | – | 48 | – | + | – | 275668 | 275669 |

**Variant: 5/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 43 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|
| 16x5/2 | 121 | 16 | 32 | 0.14…0.5 | - | 32 | - | - | 275678 | 275679 |

■ **Ethernet/IP and multipole variants on request**

**Note:**

If no position feedback sensors are installed, an installation space of 180 mm is available for an I/O system (see Type 8644).

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8640, installation width 390 mm

## Order table

**Variant: 2x3/2-way with filter regulator**

| Valve island variant | Hole pattern see P. 43 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors ($mm^2$) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 105 | 16 | – | – | – | – | + | + | – | 275522 | 275523 |

■ **Ethernet/IP and multipole variants on request**

**Note:**

If no position feedback sensors are installed, an installation space of 180 mm is available for an I/O system (see Type 8644).

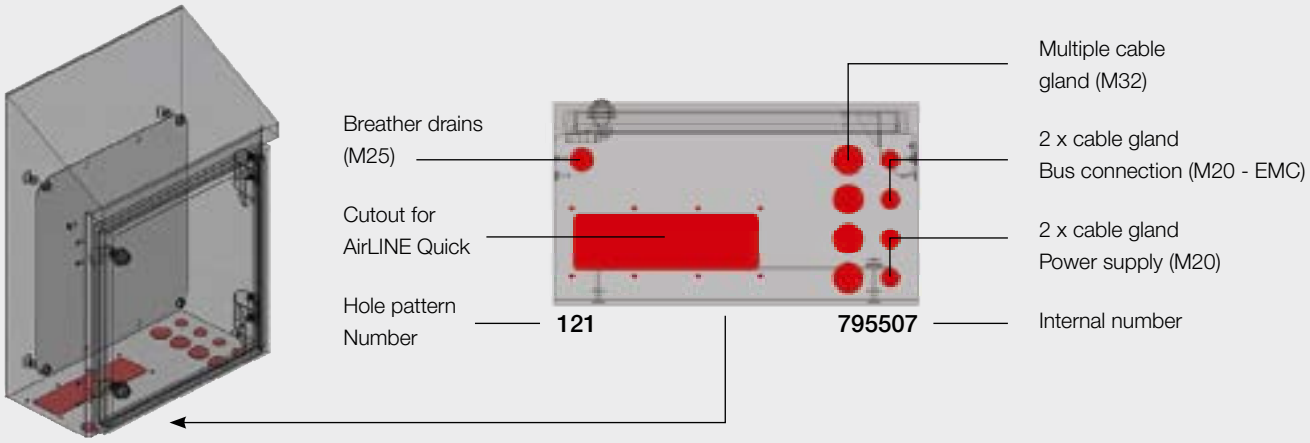
**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

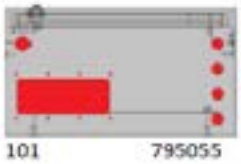
Automation system Type 8614 with valve island Type 8640, installation width 390 mm

## Description of hole pattern

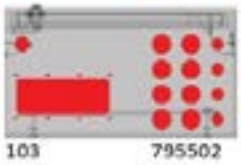


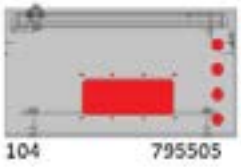

## Hole patterns

8-fold valve island
Type 8640
Installation width 390



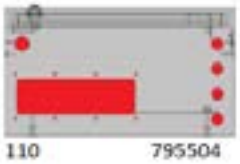


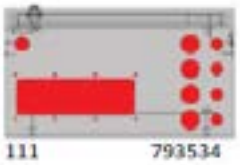


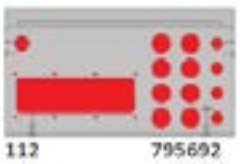





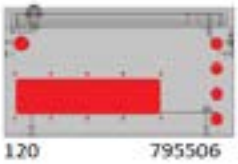
12-fold valve island
Type 8640
Installation width 390

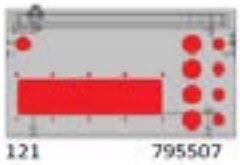



16-fold valve island (w/o IF)
Type 8640
Installation width 390




w/o IF = without intermediate feed

# Automation system Type 8614 with valve island Type 8640

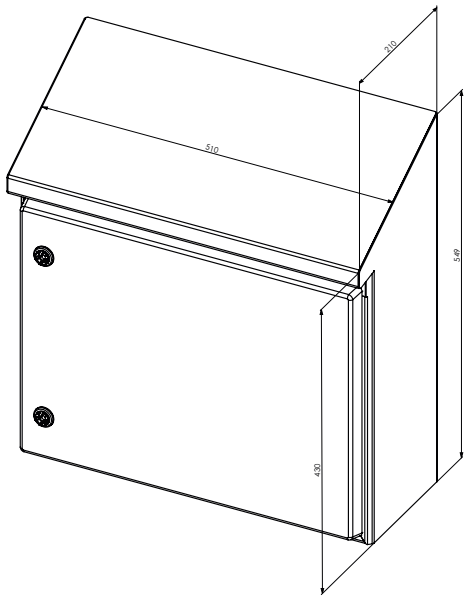
## Installation width 510 mm

Max. expansion variant:

- One valve island
- 12x2x3/2-way function
  24 digital position feedback inputs
- 16x3/2- or 5/2-way function
  32 digital position feedback inputs*

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 510 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 60 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | 1.5 $mm^2$/0.5 $mm^{2**}$ |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 30 kg |




* see order table
** see order table

Automation system Type 8614 with valve island Type 8640, installation width 510 mm

# Order table

### Variant: 3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 49 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x3/2 | 221 | 16 | 32 | 0.14…0.5 | – | 32 | – | – | – | 275680 | 275681 |

### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 49 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 241 | 16 | 16 | 0.14…0.5 | 24 | – | – | – | + | 275638 | 275639 |
| 8x2x3/2 | 240 | 16 | – | – | – | – | – | + | + | 275650 | 275651 |
| 8x2x3/2 | 241 | 16 | – | – | 24 | – | – | + | + | 275652 | 275653 |
| 8x2x3/2 | 242 | 16 | – | – | 48 | – | – | + | + | 275654 | 275655 |
| 8x2x3/2 | 204 | 16 | – | – | 72 | – | – | + | – | 275656 | 275657 |
| 8x2x3/2 | 205 | 16 | – | – | 96 | – | – | + | – | 275658 | 275659 |
| 12x2x3/2 | 244 | 24 | 24 | 0.14…1.5 | 24 | – | – | – | + | 275636 | 275637 |
| 12x2x3/2 | 243 | 24 | – | – | – | – | – | + | + | 275640 | 275641 |
| 12x2x3/2 | 244 | 24 | – | – | 24 | – | – | + | + | 275642 | 275643 |
| 12x2x3/2 | 245 | 24 | – | – | 48 | – | – | + | + | 275644 | 275645 |
| 12x2x3/2 | 213 | 24 | – | – | 72 | – | – | + | – | 275646 | 275647 |
| 12x2x3/2 | 214 | 24 | – | – | 96 | – | – | + | – | 275648 | 275649 |

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 49 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x5/2 | 221 | 16 | 32 | 0.14…0.5 | – | 32 | – | – | – | 275682 | 275683 |

■ **Ethernet/IP and multipole variants on request**

**Note:**

If no position feedback sensors are installed, an installation space of 180 mm is available for an I/O system (see Type 8644).

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8640, installation width 510 mm

# Order table

### Variant: 3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 49 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x3/2 | 226 | 16 | 32 | 0.14…0.5 | – | 32 | + | – | – | 275524 | 275525 |

### Variant: 2x3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 49 | Number of valve functions | Position feedback inputs on Valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 207 | 16 | 16 | 0.14…0.5 | 24 | – | + | – | – | 275508 | 275509 |
| 8x2x3/2 | 206 | 16 | – | – | – | – | + | + | – | 275516 | 275517 |
| 8x2x3/2 | 207 | 16 | – | – | 24 | – | + | + | – | 275518 | 275519 |
| 8x2x3/2 | 208 | 16 | – | – | 48 | – | + | + | – | 275520 | 275521 |
| 12x2x3/2 | 216 | 24 | 24 | 0.14…1.5 | 24 | – | + | – | – | 275506 | 275507 |
| 12x2x3/2 | 215 | 24 | – | – | – | – | + | + | – | 275510 | 275511 |
| 12x2x3/2 | 216 | 24 | – | – | 24 | – | + | + | – | 275512 | 275513 |
| 12x2x3/2 | 217 | 24 | – | – | 48 | – | + | + | – | 275514 | 275515 |

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 49 | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Inlets field I/O Ø 5.3 mm | Filter con-troller | Vacant position I/O System | Standard rail for power supply unit, special | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x5/2 | 226 | 16 | 32 | 0.14…0.5 | – | 32 | + | – | – | 275526 | 275527 |

■ **Ethernet/IP and multipole variants on request**

**Note:**

If no position feedback sensors are installed, an installation space of 180 mm is available for an I/O system (see Type 8644).

**Options/assemblies:**

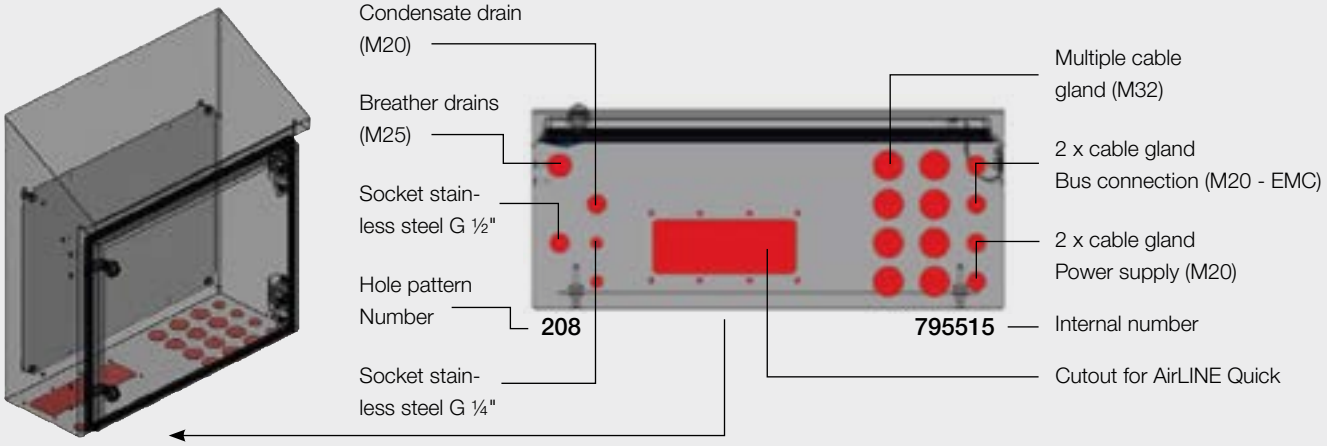
- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**


bürkert
EEx i - Eigensichere Stromkreise
EEx i - intrinsic safety circuits
EEx i - circuits pour sécurité intrinsèque

Automation system Type 8614 with valve island Type 8640, installation width 510 mm

## Description of hole pattern



Automation system Type 8614 with valve island Type 8640, installation width 510 mm

# Hole patterns

8-fold valve island
Type 8640
Installation width 510


201 795508


202 795509


203 795510


204 795511


205 795512


206 795513


207 795514


208 795515


240 795559


241 795560


242 795561

12-fold valve island
Type 8640
Installation width 510


210 795516


211 795517


212 795518


213 795057


214 795355


215 795281


216 795522


217 795523


243 795562


244 795563


245 795564

16-fold valve island (w/o IF)
Type 8640
Installation width 510


220 795524


221 795525

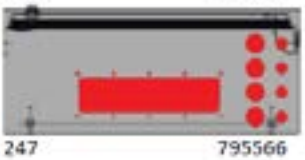

222 795526


223 795527


225 795528


226 795529


246 795565

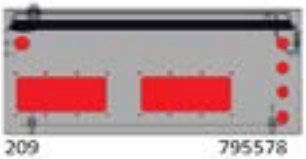

247 795566

24-fold valve island (w/o IF)
Type 8640
Installation width 510


233 795530


234 795531

w/o IF = without intermediate feed


209 795578

# Automation system Type 8614
# with valve island Type 8640

## Installation width 810 mm

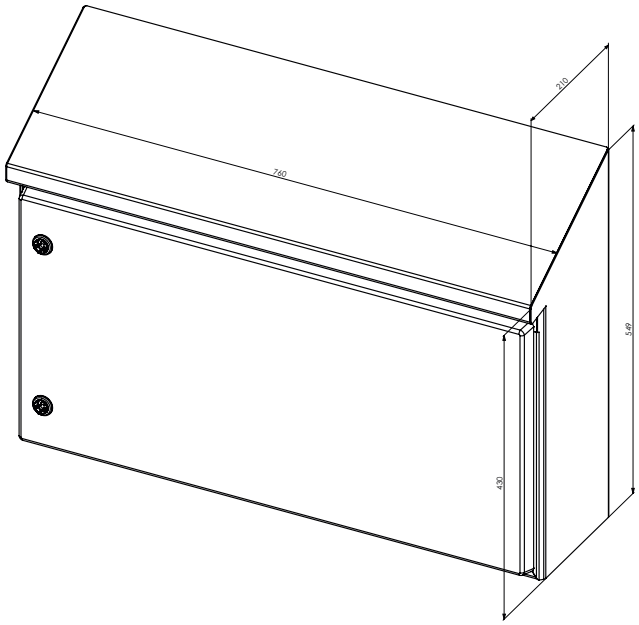
Max. expansion variant:

- Two valve islands
- 12x2x3/2-way function
  24 digital position feedback inputs
- 16x3/2- or 5/2-way function
  32 digital position feedback inputs*

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 810 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 120 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | 1.5 $mm^2$/0.5 $mm^{2**}$ |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 40 kg |

* see order table
** see order table



Automation system Type 8614 with valve island Type 8640, installation width 810 mm

# Order table

### Variant: 3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 53-54 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Max. cross section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Filter controller | Vacant position I/O System | Standard rail for power supply unit | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x3/2 | 322 | 2 | – | 32 | 64 | 0.14…0.5 | – | 64 | – | – | – | 275743 | 275744 |
| 16x3/2 | 322 | 1 | 1 | 16 | 32 | 0.14…0.5 | – | 64 | – | – | – | 275686 | 275687 |

### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 53-54 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Max. cross section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Filter controller | Vacant position I/O System | Standard rail for power supply unit | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 342 | 2 | – | 32 | 32 | 0.14…0.5 | 48 | – | – | – | + | 275727 | 275728 |
| 8x2x3/2 | 342 | 1 | 1 | 16 | 16 | 0.14…0.5 | 48 | – | – | – | + | 275606 | 275607 |
| 8x2x3/2 | 340 | 2 | – | 32 | – | – | – | – | – | + | + | 275735 | 275736 |
| 8x2x3/2 | 342 | 2 | – | 32 | – | – | 48 | – | – | + | + | 275737 | 275738 |
| 8x2x3/2 | 304 | 2 | – | 32 | – | – | 72 | – | – | + | – | 275739 | 275740 |
| 8x2x3/2 | 305 | 2 | – | 32 | – | – | 96 | – | – | + | – | 275741 | 275742 |
| 8x2x3/2 | 340 | 1 | 1 | 16 | – | – | – | – | – | + | + | 275628 | 275629 |
| 8x2x3/2 | 342 | 1 | 1 | 16 | – | – | 48 | – | – | + | + | 275630 | 275631 |
| 8x2x3/2 | 304 | 1 | 1 | 16 | – | – | 72 | – | – | + | – | 275632 | 275633 |
| 8x2x3/2 | 305 | 1 | 1 | 16 | – | – | 96 | – | – | + | – | 275634 | 275635 |
| 12x2x3/2 | 345 | 2 | – | 48 | 48 | 0.14…1.5 | 48 | – | – | – | + | 275694 | 275695 |
| 12x2x3/2 | 345 | 1 | 1 | 24 | 24 | 0.14…1.5 | 48 | – | – | – | + | 275602 | 275603 |
| 12x2x3/2 | 343 | 2 | – | 48 | – | – | – | – | – | + | + | 275729 | 275730 |
| 12x2x3/2 | 345 | 2 | – | 48 | – | – | 48 | – | – | + | + | 275731 | 275732 |
| 12x2x3/2 | 314 | 2 | – | 48 | – | – | 96 | – | – | + | – | 275733 | 275734 |
| 12x2x3/2 | 343 | 1 | 1 | 24 | – | – | – | | – | + | + | 275614 | 275615 |
| 12x2x3/2 | 345 | 1 | 1 | 24 | – | – | 48 | – | – | + | + | 275616 | 275617 |
| 12x2x3/2 | 314 | 1 | 1 | 24 | – | – | 96 | – | – | + | – | 275618 | 275619 |

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 53-54 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Max. cross section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Filter controller | Vacant position I/O System | Standard rail for power supply unit | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x5/2 | 322 | 2 | – | 32 | 64 | 0.14…0.5 | – | 64 | – | – | – | 275745 | 275746 |
| 16x5/2 | 322 | 1 | 1 | 16 | 32 | 0.14…0.5 | | 64 | – | – | – | 275690 | 275691 |

■ **Ethernet/IP and multipole variants on request**

**Note:**

If no position feedback sensors are installed, an installation space of 180 mm is available for an I/O system (see Type 8644).

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8640, installation width 810 mm

# Order table

**Variant: 2x3/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 53-54 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Filter controller | Vacant position I/O System | Standard rail for power supply unit | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 308 | 2 | – | 32 | 32 | 0.14…0.5 | 48 | – | + | – | – | 275713 | 275714 |
| 8x2x3/2 | 308 | 1 | 1 | 16 | 16 | 0.14…0.5 | 48 | – | + | – | – | 275488 | 275489 |
| 8x2x3/2 | 306 | 2 | – | 32 | – | – | – | – | + | + | – | 275719 | 275720 |
| 8x2x3/2 | 308 | 2 | – | 32 | – | – | 48 | – | + | + | – | 275721 | 275722 |
| 8x2x3/2 | 306 | 1 | 1 | 16 | – | – | – | – | + | + | – | 275502 | 275503 |
| 8x2x3/2 | 308 | 1 | 1 | 16 | – | – | 48 | – | + | + | – | 275504 | 275505 |
| 12x2x3/2 | 317 | 2 | – | 48 | 48 | 0.14…1.5 | 48 | – | + | – | – | 275692 | 275693 |
| 12x2x3/2 | 317 | 1 | 1 | 24 | 24 | 0.14…1.5 | 48 | – | + | – | – | 275484 | 275485 |
| 12x2x3/2 | 315 | 2 | – | 48 | – | – | – | – | + | + | – | 275715 | 275716 |
| 12x2x3/2 | 317 | 2 | – | 48 | – | – | 48 | – | + | + | – | 275717 | 275718 |
| 12x2x3/2 | 315 | 1 | 1 | 24 | – | – | – | – | + | + | – | 275494 | 275495 |
| 12x2x3/2 | 317 | 1 | 1 | 24 | – | – | 48 | – | + | + | – | 275496 | 275497 |

**Variant: 5/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 53-54 | Number of islands | Vacant position | Number of valve functions | Position feedback inputs on valve island | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Filter controller | Vacant position I/O System | Standard rail for power supply unit | Order no. Profibus DP | Order no. Profinet I/O |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x5/2 | 325 | 2 | – | 32 | – | – | – | – | + | + | – | 275723 | 275724 |
| 16x5/2 | 325 | 1 | 1 | 16 | – | – | – | – | + | + | – | 275530 | 275531 |

■ **Ethernet/IP and multipole variants on request**

**Note:**

If no position feedback sensors are installed, an installation space of 180 mm is available for an I/O system (see Type 8644).

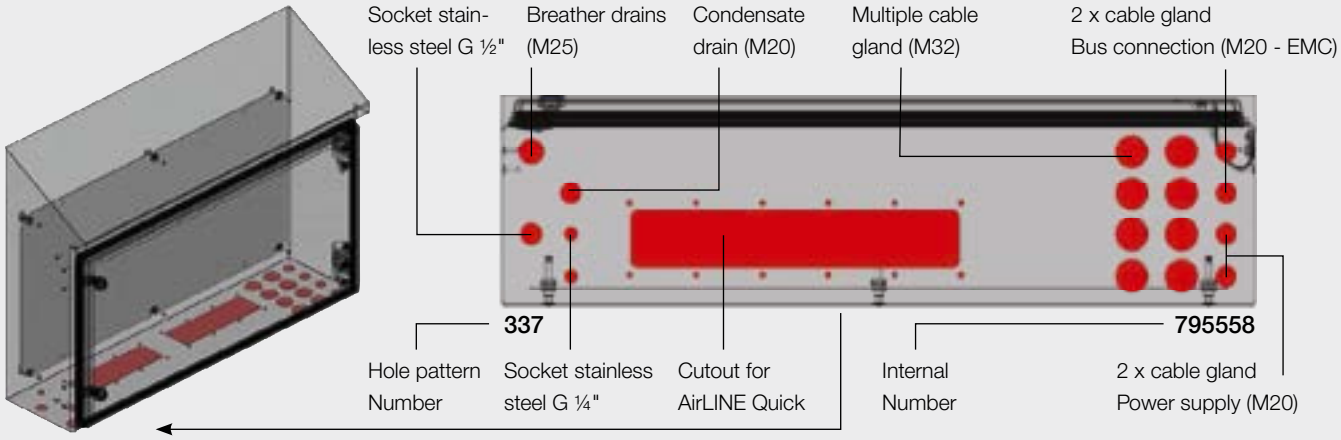
**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

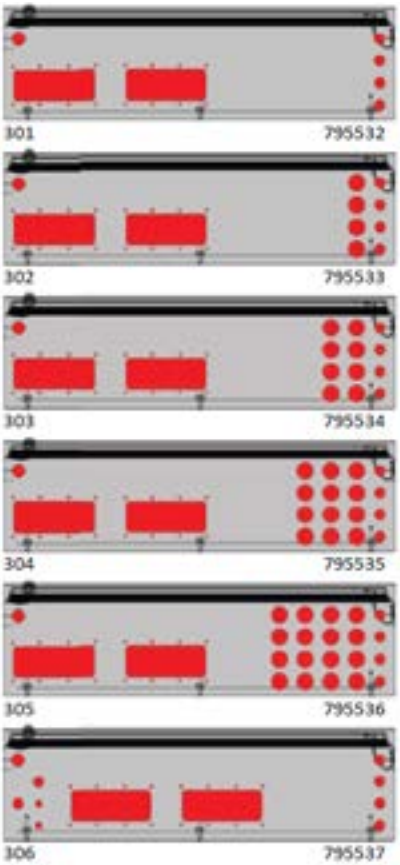
Automation system Type 8614 with valve island Type 8640, installation width 810 mm

## Description of hole pattern

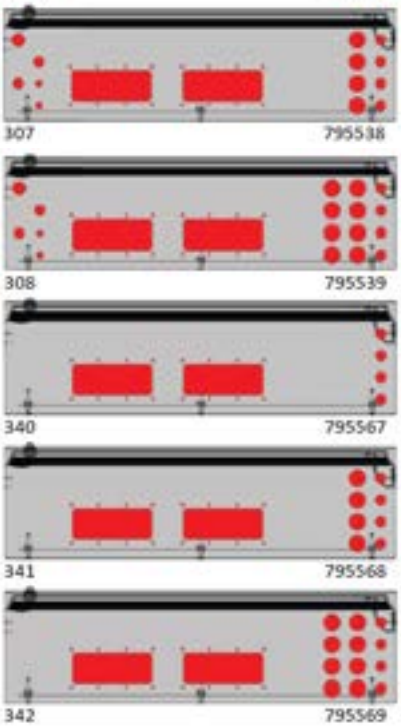



## Hole patterns

8-fold valve island
Type 8640
Installation width 810 mm



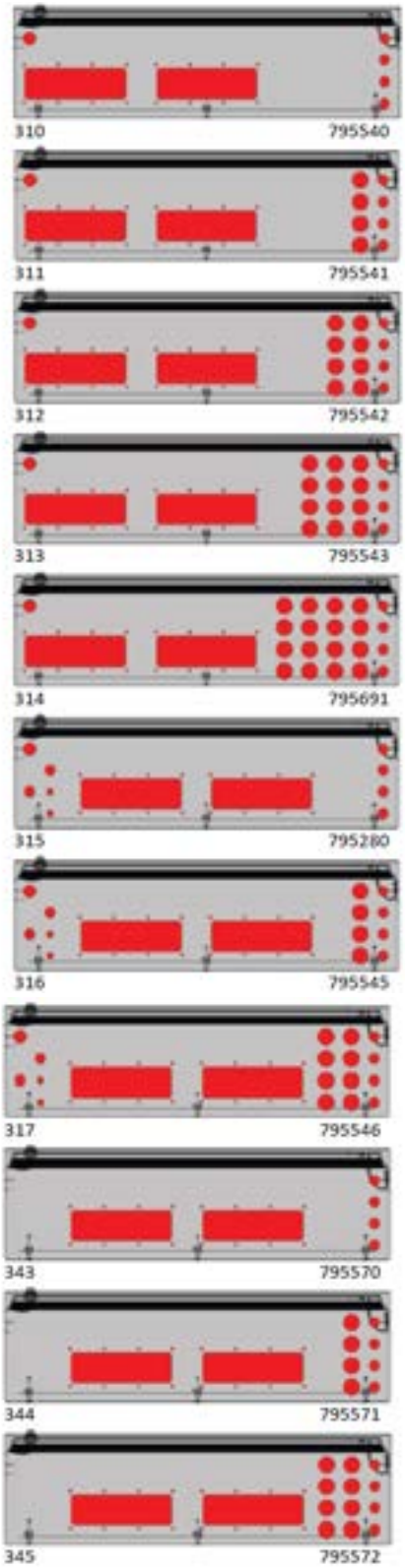

8-fold valve island
Type 8640
Installation width 810 mm



Automation system Type 8614 with valve island Type 8640, installation width 810 mm

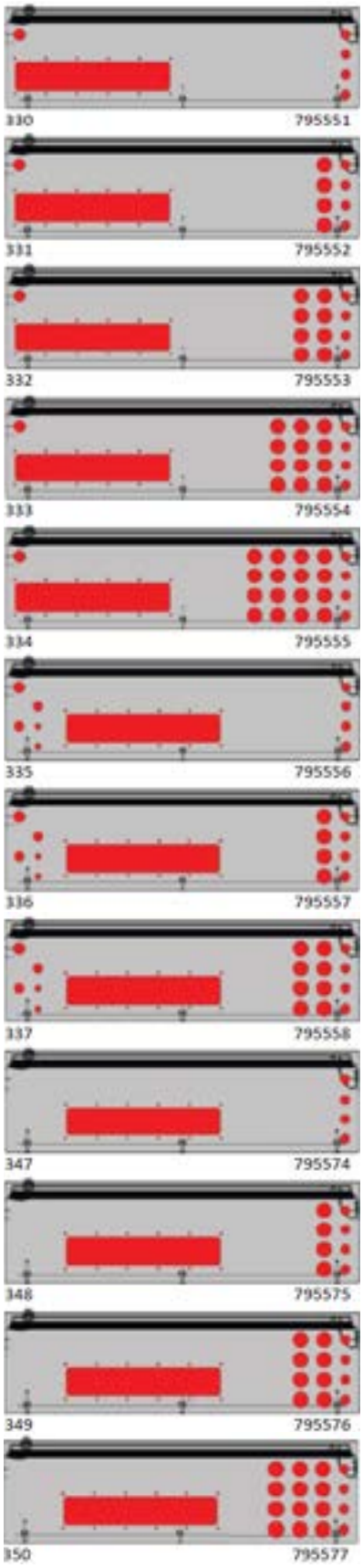
# Hole patterns

12-fold valve island
Type 8640
Installation width 810 mm




16-fold valve island
Type 8640
Installation width 810 mm


24-fold valve island
Type 8640
Installation width 810 mm



# Valve island AirLINE SP Type 8647

## Variants and options

**Displays for showing**

- Pilot valve and process valve status
- Wire breaks, short circuits, pressure values
- Individually configurable warnings and messages

**Safe cutoff**

- Shutdown of 4 or 8 valve slots (module-based)
- Shutdown of a pilot valve (channel-based)

**Optional** with communication interface of the complete SIMATIC ET 200SP module range

**Safety of pneumatic system**

- Hot-swap function
- Check valves

# Valve island AirLINE SP Type 8647

## Compatible with the Siemens I/O system SIMATIC ET 200SP

Siemens and Bürkert collaborated to develop the valve island AirLINE SP Type 8647, which is compatible with the Siemens I/O system SIMATIC ET 200SP HA. The valve island is therefore perfectly matched to the connection of the decentralised Siemens peripheral systems SIMATIC ET 200SP and SIMATIC ET 200SP HA. Whether conventional digital/analogue input modules or controlling actuators via digital/analogue output modules: Everything is combined in a compact, powerful automation system. The valves are connected directly to the Siemens I/O system. This enables quick and seamless integration during start-up and provides benefits later on during monitoring of the system in operation. The integrated display for each valve shows different types of information. These include, for example, the ability to display the number of switching cycles to facilitate preventive and wear-optimised plant maintenance, thereby minimising downtimes.

### Features:

- System tailored to Siemens SIMATIC ET 200SP or SIMATIC ET 200SP HA
- Integrated check valves: Prevent the occurrence of unwanted reactions in the plant, for example, due to uncontrolled pressure peaks
- Ring topology with MRP (Media Redundancy Protocol) is supported: Redundancy is used to avoid complete failure in case a single device/communication participant fails
- Integrated safety functionality: In combination with Siemens modules, the valve island can solve automation tasks in a fail-safe manner

### Time saving during start-up and maintenance

- Simple start-up thanks to fast project planning via Siemens TIA Portal
- Two-line, plain-text LC display: Information in real time, e.g., about the device status of pilot valve and process valve, about wire breaks, short circuits, pressure values and other information
- Hot-swap function: Valve can be changed during operation, no plant shutdown required

Valve island AirLINE SP Type 8647, compatible with the Siemens I/O system SIMATIC ET 200SP

# Order table for valve islands (basic configuration)

### Variant: 3/2-way

| valve function | Pressure sensor | Order no. |
|---|---|---|
| 8x3/2 | no | 333417 |
| 8x3/2 | yes | 334648 |
| 12x3/2 | no | 334653 |
| 12x3/2 | yes | 334655 |
| 16x3/2 | no | 334658 |
| 16x3/2 | yes | 334660 |
| 16x3/2* | no | 330670 |
| 16x3/2* | yes | 335246 |
| 24x3/2 | no | 333422 |
| 24x3/2 | yes | 334682 |
| 24x3/2* | no | 335255 |
| 24x3/2* | yes | 335256 |

* with middle feed module

### Variant: 2x3/2-way

| valve function | Pressure sensor | Order no. |
|---|---|---|
| 8x2x3/2 | no | 310392 |
| 8x2x3/2 | yes | 324269 |
| 12x2x3/2 | no | 315920 |
| 12x2x3/2 | yes | 314095 |
| 16x2x3/2 | no | 327773 |
| 16x2x3/2 | yes | 334680 |
| 16x2x3/2* | no | 315918 |
| 16x2x3/2* | yes | 324389 |
| 24x2x3/2* | no | 317369 |
| 24x2x3/2* | yes | 334694 |

* with middle feed module

### Variant: 5/2-way

| valve function | Pressure sensor | Order no. |
|---|---|---|
| 8x5/2 | no | 310407 |
| 8x5/2 | yes | 334649 |
| 12x5/2 | no | 317649 |
| 12x5/2 | yes | 316238 |
| 16x5/2 | no | 327780 |
| 16x5/2 | yes | 334679 |
| 16x5/2* | no | 327782 |
| 16x5/2* | yes | 316278 |
| 24x5/2 | no | 327792 |
| 24x5/2 | yes | 334689 |
| 24x5/2* | no | 327795 |
| 24x5/2* | yes | 316237 |

* with middle feed module

# Automation system Type 8614 with valve island Type 8647

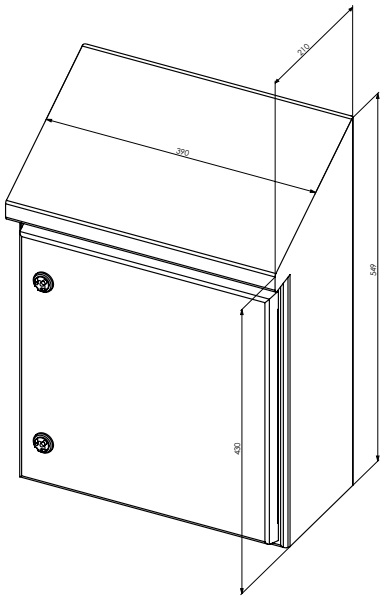
## Installation width 390 mm

Max. expansion variant:

- One valve island
- 16x2x3/2- or 5/2-way function
- 48 bushings for electrical control lines

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 390 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 60 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | see SIEMENS ET200SP OPERATING INSTRUCTIONS |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 25 kg |




* see order table

### Options:

- Additional inputs on request

Automation system Type 8614 with valve island Type 8647, installation width 390 mm

# Order table

### Variant: 3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 63 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|
| 8x3/2 | 701 | 8 | * | 0 | yes | 321698 |
| 8x3/2 | 702 | 8 | * | 24 | yes | 321704 |
| 8x3/2 | 703 | 8 | * | 48 | yes | 321710 |
| 12x3/2 | 711 | 12 | * | 0 | yes | 321722 |
| 12x3/2 | 712 | 12 | * | 24 | yes | 321728 |
| 16x3/2 | 721 | 16 | * | 0 | yes | 321734 |

* Note the specifications of the I/O system manufacturer

### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 63 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|
| 8x2x3/2 | 701 | 16 | * | 0 | yes | 321702 |
| 8x2x3/2 | 702 | 16 | * | 24 | yes | 321708 |
| 8x2x3/2 | 703 | 16 | * | 48 | yes | 321714 |
| 12x2x3/2 | 711 | 24 | * | 0 | yes | 321726 |
| 12x2x3/2 | 712 | 24 | * | 24 | yes | 321732 |
| 16x2x3/2 | 721 | 32 | * | 0 | yes | 321738 |

* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 63 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|
| 8x5/2 | 701 | 8 | * | 0 | yes | 321700 |
| 8x5/2 | 702 | 8 | * | 24 | yes | 321706 |
| 8x5/2 | 703 | 8 | * | 48 | yes | 321712 |
| 12x5/2 | 711 | 12 | * | 0 | yes | 321724 |
| 12x5/2 | 712 | 12 | * | 24 | yes | 321730 |
| 16x5/2 | 721 | 16 | * | 0 | yes | 321736 |

* Note the specifications of the I/O system manufacturer

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 390 mm

# Order table

### Variant: 3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 63 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|
| 8x3/2 | 704 | 8 | * | 0 | yes | 321716 |

* Note the specifications of the I/O system manufacturer

### Variant: 2x 3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 63 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|
| 8x2x3/2 | 704 | 16 | * | 0 | yes | 321720 |

* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 63 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|
| 8x5/2 | 704 | 8 | * | 0 | yes | 321718 |

* Note the specifications of the I/O system manufacturer

**Note:**

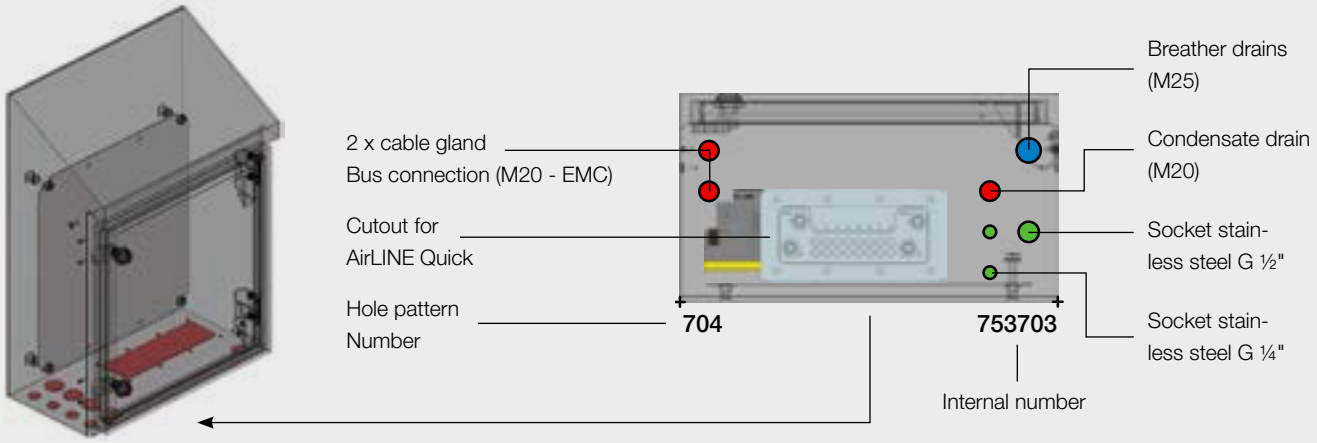
The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

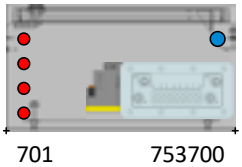
## Description of hole pattern

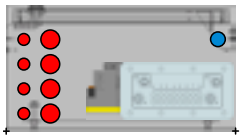


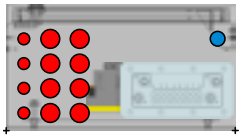


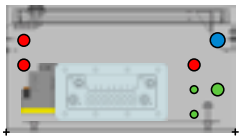

## Hole patterns

8-fold valve island
Type 8647
Installation width 390 mm


701 753700

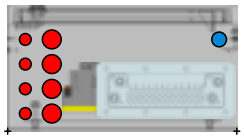

702 753701


703 753702


704 753703

12-fold valve island
Type 8647
Installation width 390 mm


711 753704


712 753705

16-fold valve island
Type 8647
Installation width 390 mm


721 753706

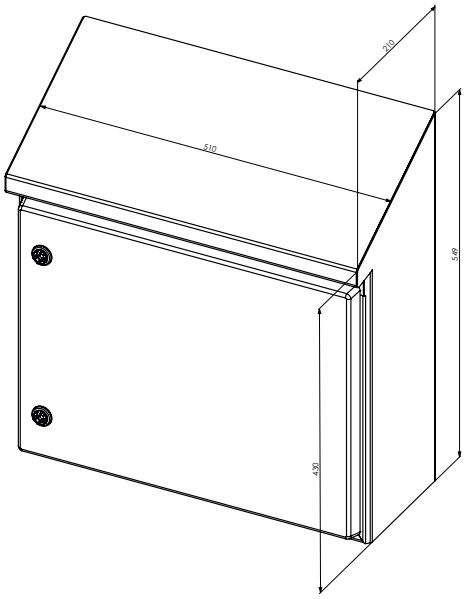
## Installation width 510 mm

Max. expansion variant:

- One valve island
- 24x2x3/2- or 5/2-way function
- 96 bushings for electrical control lines

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 510 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 75 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | see SIEMENS ET200SP OPERATING INSTRUCTIONS |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 30 kg |




* see order table

### Options:

- Inlets field I/O Ø 5.3 mm on request

Automation system Type 8614 with valve island Type 8647, installation width 510 mm

# Order table

### Variant: 3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 68-69 | Number of valve functions | IF** | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|---|
| 8x3/2 | 801 | 8 | no | * | 0 | yes | 321740 |
| 8x3/2 | 802 | 8 | no | * | 24 | yes | 321746 |
| 8x3/2 | 803 | 8 | no | * | 48 | yes | 321752 |
| 8x3/2 | 804 | 8 | no | * | 72 | yes | 321758 |
| 8x3/2 | 805 | 8 | no | * | 96 | yes | 321764 |
| 12x3/2 | 811 | 12 | no | * | 0 | yes | 321788 |
| 12x3/2 | 812 | 12 | no | * | 24 | yes | 321794 |
| 12x3/2 | 813 | 12 | no | * | 48 | yes | 321800 |
| 12x3/2 | 814 | 12 | no | * | 72 | yes | 321806 |
| 16x3/2 | 821 | 16 | no | * | 0 | yes | 321824 |
| 16x3/2 | 822 | 16 | no | * | 24 | yes | 321830 |
| 16x3/2 | 823 | 16 | no | * | 48 | yes | 321836 |
| 16x3/2 | 831 | 16 | yes | * | 0 | yes | 321848 |
| 16x3/2 | 832 | 16 | yes | * | 24 | yes | 321854 |
| 16x3/2 | 833 | 16 | yes | * | 48 | yes | 321860 |
| 24x3/2 | 841 | 24 | no | * | 0 | yes | 321866 |
| 24x3/2 | 842 | 24 | no | * | 24 | yes | 321870 |
| 24x3/2 | 851 | 24 | yes | * | 0 | yes | 321874 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

### Variant: 2x 3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 68-69 | Number of valve functions | IF** | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 801 | 16 | no | * | 0 | yes | 321744 |
| 8x2x3/2 | 802 | 16 | no | * | 24 | yes | 321750 |
| 8x2x3/2 | 803 | 16 | no | * | 48 | yes | 321756 |
| 8x2x3/2 | 804 | 16 | no | * | 72 | yes | 321762 |
| 8x2x3/2 | 805 | 16 | no | * | 96 | yes | 321768 |
| 12x2x3/2 | 811 | 24 | no | * | 0 | yes | 321792 |
| 12x2x3/2 | 812 | 24 | no | * | 24 | yes | 321798 |
| 12x2x3/2 | 813 | 24 | no | * | 48 | yes | 321804 |
| 12x2x3/2 | 814 | 24 | no | * | 72 | yes | 321810 |
| 16x2x3/2 | 821 | 32 | no | * | 0 | yes | 321828 |
| 16x2x3/2 | 822 | 32 | no | * | 24 | yes | 321834 |
| 16x2x3/2 | 823 | 32 | no | * | 48 | yes | 321840 |
| 16x2x3/2 | 831 | 32 | yes | * | 0 | yes | 321852 |
| 16x2x3/2 | 832 | 32 | yes | * | 24 | yes | 321858 |
| 16x2x3/2 | 833 | 32 | yes | * | 48 | yes | 321864 |
| 24x2x3/2 | 851 | 48 | yes | * | 0 | yes | 321878 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 510 mm

# Order table

**Variant: 5/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 68-69 | Number of valve functions | IF** | Max. cross-section of position feedback sensors ($mm^2$) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|---|
| 8x5/2 | 801 | 8 | no | * | 0 | yes | 321742 |
| 8x5/2 | 802 | 8 | no | * | 24 | yes | 321748 |
| 8x5/2 | 803 | 8 | no | * | 48 | yes | 321754 |
| 8x5/2 | 804 | 8 | no | * | 72 | yes | 321760 |
| 8x5/2 | 805 | 8 | no | * | 96 | yes | 321766 |
| 12x5/2 | 811 | 12 | no | * | 0 | yes | 321790 |
| 12x5/2 | 812 | 12 | no | * | 24 | yes | 321796 |
| 12x5/2 | 813 | 12 | no | * | 48 | yes | 321802 |
| 12x5/2 | 814 | 12 | no | * | 72 | yes | 321808 |
| 16x5/2 | 821 | 16 | no | * | 0 | yes | 321826 |
| 16x5/2 | 822 | 16 | no | * | 24 | yes | 321832 |
| 16x5/2 | 823 | 16 | no | * | 48 | yes | 321838 |
| 16x5/2 | 831 | 16 | yes | * | 0 | yes | 321850 |
| 16x5/2 | 832 | 16 | yes | * | 24 | yes | 321856 |
| 16x5/2 | 833 | 16 | yes | * | 48 | yes | 321862 |
| 24x5/2 | 841 | 24 | no | * | 0 | yes | 321868 |
| 24x5/2 | 842 | 24 | no | * | 24 | yes | 321872 |
| 24x5/2 | 851 | 24 | yes | * | 0 | yes | 321876 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 510 mm

# Order table

### Variant: 3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 68-69 | Number of valve functions | IF** | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|---|
| 8x3/2 | 806 | 8 | no | * | 0 | yes | 321770 |
| 8x3/2 | 807 | 8 | no | * | 24 | yes | 321776 |
| 8x3/2 | 808 | 8 | no | * | 48 | yes | 321782 |
| 12x3/2 | 816 | 12 | no | * | 0 | yes | 321812 |
| 12x3/2 | 817 | 12 | no | * | 24 | yes | 321818 |
| 16x3/2 | 826 | 16 | no | * | 0 | yes | 321842 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

### Variant: 2x 3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 68-69 | Number of valve functions | IF** | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 806 | 16 | no | * | 0 | yes | 321774 |
| 8x2x3/2 | 807 | 16 | no | * | 24 | yes | 321780 |
| 8x2x3/2 | 808 | 16 | no | * | 48 | yes | 321786 |
| 12x2x3/2 | 816 | 24 | no | * | 0 | yes | 321816 |
| 12x2x3/2 | 817 | 24 | no | * | 24 | yes | 321822 |
| 16x2x3/2 | 826 | 32 | no | * | 0 | yes | 321846 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 68-69 | Number of valve functions | IF** | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Order no. |
|---|---|---|---|---|---|---|---|
| 8x5/2 | 806 | 8 | no | * | 0 | yes | 321772 |
| 8x5/2 | 807 | 8 | no | * | 24 | yes | 321778 |
| 8x5/2 | 808 | 8 | no | * | 48 | yes | 321784 |
| 12x5/2 | 816 | 12 | no | * | 0 | yes | 321814 |
| 12x5/2 | 817 | 12 | no | * | 24 | yes | 321820 |
| 16x5/2 | 826 | 16 | no | * | 0 | yes | 321844 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

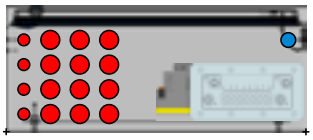
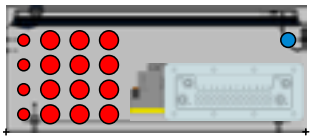
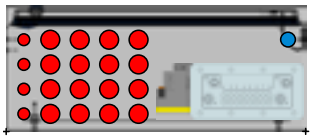
**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 510 mm

## Hole patterns

| 8-fold valve island<br>Type 8647<br>Installation width 510 mm | | 12-fold valve island<br>Type 8647<br>Installation width 510 mm | | 16-fold valve island<br>Type 8647<br>Installation width 510 mm | |
|---|---|---|---|---|---|
|  | 801 753707 |  | 811 753715 |  | 821 753721 |
|  | 802 753708 |  | 812 753716 |  | 822 753722 |
|  | 803 753709 |  | 813 753717 |  | 823 753723 |
|  | 804 753710 |  | 814 753718 | | |
|  | 805 753711 | | | | |
|  | 806 753712 |  | 816 753719 |  | 826 753724 |
|  | 807 753713 |  | 817 753720 | | |
|  | 808 753714 | | | | |

Automation system Type 8614 with valve island Type 8647, installation width 510 mm

## Hole patterns

16-fold valve island (w. IF)
Type 8647
Installation width 510 mm

831 753725

832 753726

833 753727

24-fold valve island (w/o IF)
Type 8647 (single valve only)
Installation width 510 mm

841 753728

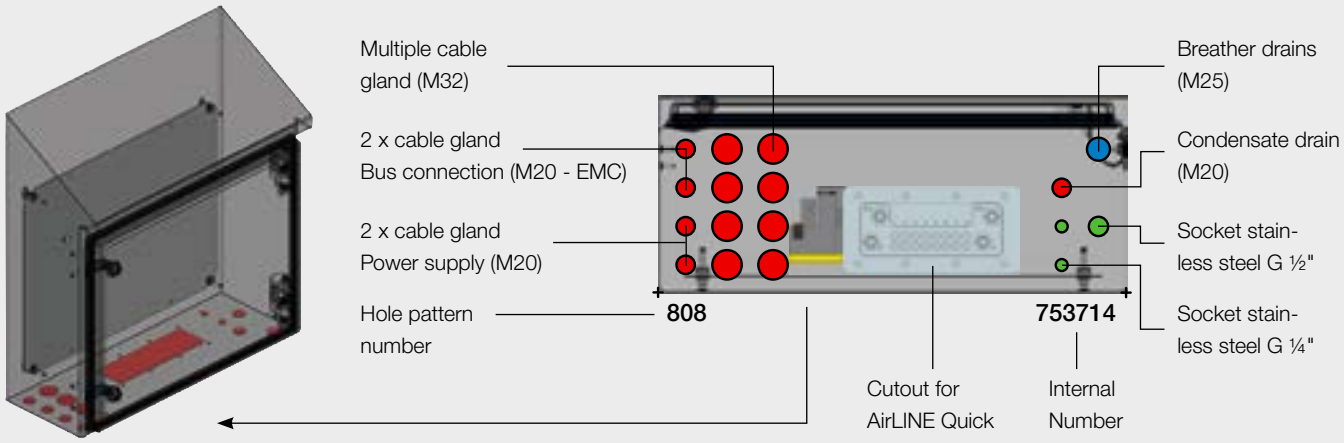
842 753729

24-fold valve island (w. IF)
Type 8647
Installation width 510 mm

851 753730

w. IF = with intermediate feed
w/o IF = without intermediate feed

## Description of hole pattern



# Automation system Type 8614 with valve island Type 8647

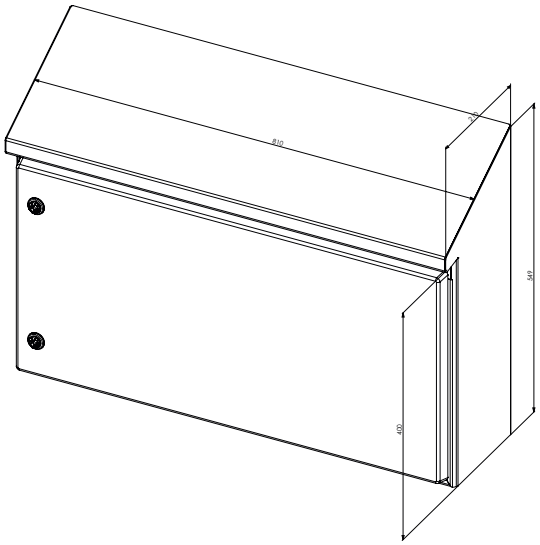
## Installation width 810 mm

Max. expansion variant:

- 2 valve islands
- 32 x 2x3/2- or 5/2-way function
- 96 bushings for electrical control lines

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 810 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 120 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O | 6 x 6.5 mm* (8 x 5.5 mm*) VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | see SIEMENS ET200SP OPERATING INSTRUCTIONS |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 40 kg |



* see order table

### Options:

- Inlets field I/O Ø 5.3 mm on request

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

## Order table

**Variant: 3/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 78-79 | Number of islands | Number of vac. | Number of valve functions | IF** | Max. cross-section FBS ($mm^2$) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number |
|---|---|---|---|---|---|---|---|---|---|
| 8x3/2 | 901 | 2 | 0 | 16 | no | * | 0 | yes | 335282 |
| 8x3/2 | 901 | 1 | 1 | 8 | no | * | 0 | yes | 335288 |
| 8x3/2 | 902 | 2 | 0 | 16 | no | * | 24 | yes | 335294 |
| 8x3/2 | 902 | 1 | 1 | 8 | no | * | 24 | yes | 335300 |
| 8x3/2 | 903 | 2 | 0 | 16 | no | * | 48 | yes | 335306 |
| 8x3/2 | 903 | 1 | 1 | 8 | no | * | 48 | yes | 335312 |
| 8x3/2 | 904 | 2 | 0 | 16 | no | * | 72 | yes | 335318 |
| 8x3/2 | 904 | 1 | 1 | 8 | no | * | 72 | yes | 335324 |
| 8x3/2 | 905 | 2 | 0 | 16 | no | * | 96 | yes | 335330 |
| 8x3/2 | 905 | 1 | 1 | 8 | no | * | 96 | yes | 335336 |
| 8x3/2 | 906 | 2 | 0 | 16 | no | * | 120 | yes | 335342 |
| 8x3/2 | 906 | 1 | 1 | 8 | no | * | 120 | yes | 335348 |
| 12x3/2 | 911 | 2 | 0 | 24 | no | * | 0 | yes | 335390 |
| 12x3/2 | 911 | 1 | 1 | 12 | no | * | 0 | yes | 335396 |
| 12x3/2 | 912 | 2 | 0 | 24 | no | * | 24 | yes | 335402 |
| 12x3/2 | 912 | 1 | 1 | 12 | no | * | 24 | yes | 335408 |
| 12x3/2 | 913 | 2 | 0 | 24 | no | * | 48 | yes | 335414 |
| 12x3/2 | 913 | 1 | 1 | 12 | no | * | 48 | yes | 335420 |
| 12x3/2 | 914 | 2 | 0 | 24 | no | * | 72 | yes | 335426 |
| 12x3/2 | 914 | 1 | 1 | 12 | no | * | 72 | yes | 335432 |
| 16x3/2 | 921 | 2 | 0 | 32 | no | * | 0 | yes | 335462 |
| 16x3/2 | 921 | 1 | 1 | 16 | no | * | 0 | yes | 335468 |
| 16x3/2 | 922 | 2 | 0 | 32 | no | * | 24 | yes | 335474 |
| 16x3/2 | 922 | 1 | 1 | 16 | no | * | 24 | yes | 335480 |
| 16x3/2 | 931 | 2 | 0 | 32 | yes | * | 0 | yes | 335486 |
| 16x3/2 | 931 | 1 | 1 | 16 | yes | * | 0 | yes | 335492 |
| 16x3/2 | 923 | 1 | 0 | 16 | no | * | 0 | yes | 335598 |
| 16x3/2 | 924 | 1 | 0 | 16 | no | * | 24 | yes | 335604 |
| 16x3/2 | 925 | 1 | 0 | 16 | no | * | 48 | yes | 335610 |
| 16x3/2 | 926 | 1 | 0 | 16 | no | * | 72 | yes | 335616 |
| 16x3/2 | 927 | 1 | 0 | 16 | no | * | 96 | yes | 335622 |
| 16x3/2 | 928 | 1 | 0 | 16 | no | * | 120 | yes | 335628 |
| 16x3/2 | 933 | 1 | 0 | 16 | yes | * | 0 | yes | 335670 |
| 16x3/2 | 934 | 1 | 0 | 16 | yes | * | 24 | yes | 335676 |
| 16x3/2 | 935 | 1 | 0 | 16 | yes | * | 48 | yes | 321290 |
| 16x3/2 | 936 | 1 | 0 | 16 | yes | * | 72 | yes | 321296 |
| 16x3/2 | 937 | 1 | 0 | 16 | yes | * | 96 | yes | 321302 |
| 16x3/2 | 938 | 1 | 0 | 16 | yes | * | 120 | yes | 321308 |
| 24x3/2 | 941 | 1 | 0 | 24 | no | * | 0 | yes | 335498 |
| 24x3/2 | 942 | 1 | 0 | 24 | no | * | 24 | yes | 335502 |
| 24x3/2 | 943 | 1 | 0 | 24 | no | * | 48 | yes | 335506 |
| 24x3/2 | 944 | 1 | 0 | 24 | no | * | 72 | yes | 335510 |
| 24x3/2 | 945 | 1 | 0 | 24 | no | * | 96 | yes | 335514 |
| 24x3/2 | 946 | 1 | 0 | 24 | no | * | 120 | yes | 335518 |
| 24x3/2 | 951 | 1 | 0 | 24 | yes | * | 0 | yes | 335538 |
| 24x3/2 | 952 | 1 | 0 | 24 | yes | * | 24 | yes | 335544 |
| 24x3/2 | 953 | 1 | 0 | 24 | yes | * | 48 | yes | 335550 |
| 24x3/2 | 954 | 1 | 0 | 24 | yes | * | 72 | yes | 335556 |
| 24x3/2 | 955 | 1 | 0 | 24 | yes | * | 96 | yes | 335562 |
| 24x3/2 | 956 | 1 | 0 | 24 | yes | * | 120 | yes | 335568 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

# Order table

**Variant: 2 x 3/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 78-79 | Number of islands | Number of vac. | Number of valve functions | IF** | Max. cross-section FBS (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number |
|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 901 | 2 | 0 | 32 | no | * | 0 | yes | 335286 |
| 8x2x3/2 | 901 | 1 | 1 | 16 | no | * | 0 | yes | 335292 |
| 8x2x3/2 | 902 | 2 | 0 | 32 | no | * | 24 | yes | 335298 |
| 8x2x3/2 | 902 | 1 | 1 | 16 | no | * | 24 | yes | 335304 |
| 8x2x3/2 | 903 | 2 | 0 | 32 | no | * | 48 | yes | 335310 |
| 8x2x3/2 | 903 | 1 | 1 | 16 | no | * | 48 | yes | 335316 |
| 8x2x3/2 | 904 | 2 | 0 | 32 | no | * | 72 | yes | 335322 |
| 8x2x3/2 | 904 | 1 | 1 | 16 | no | * | 72 | yes | 335328 |
| 8x2x3/2 | 905 | 2 | 0 | 32 | no | * | 96 | yes | 335334 |
| 8x2x3/2 | 905 | 1 | 1 | 16 | no | * | 96 | yes | 335340 |
| 8x2x3/2 | 906 | 2 | 0 | 32 | no | * | 120 | yes | 335346 |
| 8x2x3/2 | 906 | 1 | 1 | 16 | no | * | 120 | yes | 335352 |
| 12x2x3/2 | 911 | 2 | 0 | 48 | no | * | 0 | yes | 335394 |
| 12x2x3/2 | 911 | 1 | 1 | 24 | no | * | 0 | yes | 335400 |
| 12x2x3/2 | 912 | 2 | 0 | 48 | no | * | 24 | yes | 335406 |
| 12x2x3/2 | 912 | 1 | 1 | 24 | no | * | 24 | yes | 335412 |
| 12x2x3/2 | 913 | 2 | 0 | 48 | no | * | 48 | yes | 335418 |
| 12x2x3/2 | 913 | 1 | 1 | 24 | no | * | 48 | yes | 335424 |
| 12x2x3/2 | 914 | 2 | 0 | 48 | no | * | 72 | yes | 335430 |
| 12x2x3/2 | 914 | 1 | 1 | 24 | no | * | 72 | yes | 335436 |
| 16x2x3/2 | 921 | 2 | 0 | 64 | no | * | 0 | yes | 335466 |
| 16x2x3/2 | 921 | 1 | 1 | 32 | no | * | 0 | yes | 335472 |
| 16x2x3/2 | 922 | 2 | 0 | 64 | no | * | 24 | yes | 335478 |
| 16x2x3/2 | 922 | 1 | 1 | 32 | no | * | 24 | yes | 335484 |
| 16x2x3/2 | 931 | 2 | 0 | 64 | yes | * | 0 | yes | 335490 |
| 16x2x3/2 | 931 | 1 | 1 | 32 | yes | * | 0 | yes | 335496 |
| 16x2x3/2 | 923 | 1 | 0 | 32 | no | * | 0 | yes | 335602 |
| 16x2x3/2 | 924 | 1 | 0 | 32 | no | * | 24 | yes | 335608 |
| 16x2x3/2 | 925 | 1 | 0 | 32 | no | * | 48 | yes | 335614 |
| 16x2x3/2 | 926 | 1 | 0 | 32 | no | * | 72 | yes | 335620 |
| 16x2x3/2 | 927 | 1 | 0 | 32 | no | * | 96 | yes | 335626 |
| 16x2x3/2 | 928 | 1 | 0 | 32 | no | * | 120 | yes | 335632 |
| 16x2x3/2 | 933 | 1 | 0 | 32 | yes | * | 0 | yes | 335674 |
| 16x2x3/2 | 934 | 1 | 0 | 32 | yes | * | 24 | yes | 335680 |
| 16x2x3/2 | 935 | 1 | 0 | 32 | yes | * | 48 | yes | 321294 |
| 16x2x3/2 | 936 | 1 | 0 | 32 | yes | * | 72 | yes | 321300 |
| 16x2x3/2 | 937 | 1 | 0 | 32 | yes | * | 96 | yes | 321306 |
| 16x2x3/2 | 938 | 1 | 0 | 32 | yes | * | 120 | yes | 321312 |
| 24x2x3/2 | 951 | 1 | 0 | 48 | yes | * | 0 | yes | 335542 |
| 24x2x3/2 | 952 | 1 | 0 | 48 | yes | * | 24 | yes | 335548 |
| 24x2x3/2 | 953 | 1 | 0 | 48 | yes | * | 48 | yes | 335554 |
| 24x2x3/2 | 954 | 1 | 0 | 48 | yes | * | 72 | yes | 335560 |
| 24x2x3/2 | 955 | 1 | 0 | 48 | yes | * | 96 | yes | 335566 |
| 24x2x3/2 | 956 | 1 | 0 | 48 | yes | * | 120 | yes | 335572 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

## Order table

**Variant: 5/2-way valve island variant without filter regulator**

| Valve island variant | Hole pattern see P. 78-79 | Number of islands | Number of vac. | Number of valve functions | IF** | Max. cross-section FBS ($mm^2$) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number |
|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 901 | 2 | 0 | 16 | no | * | 0 | yes | 335284 |
| 8x5/2 | 901 | 1 | 1 | 8 | no | * | 0 | yes | 335290 |
| 8x5/2 | 902 | 2 | 0 | 16 | no | * | 24 | yes | 335296 |
| 8x5/2 | 902 | 1 | 1 | 8 | no | * | 24 | yes | 335302 |
| 8x5/2 | 903 | 2 | 0 | 16 | no | * | 48 | yes | 335308 |
| 8x5/2 | 903 | 1 | 1 | 8 | no | * | 48 | yes | 335314 |
| 8x5/2 | 904 | 2 | 0 | 16 | no | * | 72 | yes | 335320 |
| 8x5/2 | 904 | 1 | 1 | 8 | no | * | 72 | yes | 335326 |
| 8x5/2 | 905 | 2 | 0 | 16 | no | * | 96 | yes | 335332 |
| 8x5/2 | 905 | 1 | 1 | 8 | no | * | 96 | yes | 335338 |
| 8x5/2 | 906 | 2 | 0 | 16 | no | * | 120 | yes | 335344 |
| 8x5/2 | 906 | 1 | 1 | 8 | no | * | 120 | yes | 335350 |
| 12x5/2 | 911 | 2 | 0 | 24 | no | * | 0 | yes | 335392 |
| 12x5/2 | 911 | 1 | 1 | 12 | no | * | 0 | yes | 335398 |
| 12x5/2 | 912 | 2 | 0 | 24 | no | * | 24 | yes | 335404 |
| 12x5/2 | 912 | 1 | 1 | 12 | no | * | 24 | yes | 335410 |
| 12x5/2 | 913 | 2 | 0 | 24 | no | * | 48 | yes | 335416 |
| 12x5/2 | 913 | 1 | 1 | 12 | no | * | 48 | yes | 335422 |
| 12x5/2 | 914 | 2 | 0 | 24 | no | * | 72 | yes | 335428 |
| 12x5/2 | 914 | 1 | 1 | 12 | no | * | 72 | yes | 335434 |
| 16x5/2 | 921 | 2 | 0 | 32 | no | * | 0 | yes | 335464 |
| 16x5/2 | 921 | 1 | 1 | 16 | no | * | 0 | yes | 335470 |
| 16x5/2 | 922 | 2 | 0 | 32 | no | * | 24 | yes | 335476 |
| 16x5/2 | 922 | 1 | 1 | 16 | no | * | 24 | yes | 335482 |
| 16x5/2 | 931 | 2 | 0 | 32 | yes | * | 0 | yes | 335488 |
| 16x5/2 | 931 | 1 | 1 | 16 | yes | * | 0 | yes | 335494 |
| 16x5/2 | 923 | 1 | 0 | 16 | no | * | 0 | yes | 335600 |
| 16x5/2 | 924 | 1 | 0 | 16 | no | * | 24 | yes | 335606 |
| 16x5/2 | 925 | 1 | 0 | 16 | no | * | 48 | yes | 335612 |
| 16x5/2 | 926 | 1 | 0 | 16 | no | * | 72 | yes | 335618 |
| 16x5/2 | 927 | 1 | 0 | 16 | no | * | 96 | yes | 335624 |
| 16x5/2 | 928 | 1 | 0 | 16 | no | * | 120 | yes | 335630 |
| 16x5/2 | 933 | 1 | 0 | 16 | yes | * | 0 | yes | 335672 |
| 16x5/2 | 934 | 1 | 0 | 16 | yes | * | 24 | yes | 335678 |
| 16x5/2 | 935 | 1 | 0 | 16 | yes | * | 48 | yes | 321292 |
| 16x5/2 | 936 | 1 | 0 | 16 | yes | * | 72 | yes | 321298 |
| 16x5/2 | 937 | 1 | 0 | 16 | yes | * | 96 | yes | 321304 |
| 16x5/2 | 938 | 1 | 0 | 16 | yes | * | 120 | yes | 321310 |
| 24x5/2 | 941 | 1 | 0 | 24 | no | * | 0 | yes | 335500 |
| 24x5/2 | 942 | 1 | 0 | 24 | no | * | 24 | yes | 335504 |
| 24x5/2 | 943 | 1 | 0 | 24 | no | * | 48 | yes | 335508 |
| 24x5/2 | 944 | 1 | 0 | 24 | no | * | 72 | yes | 335512 |
| 24x5/2 | 945 | 1 | 0 | 24 | no | * | 96 | yes | 335516 |
| 24x5/2 | 946 | 1 | 0 | 24 | no | * | 120 | yes | 335520 |
| 24x5/2 | 951 | 1 | 0 | 24 | yes | * | 0 | yes | 335540 |
| 24x5/2 | 952 | 1 | 0 | 24 | yes | * | 24 | yes | 335546 |
| 24x5/2 | 953 | 1 | 0 | 24 | yes | * | 48 | yes | 335552 |
| 24x5/2 | 954 | 1 | 0 | 24 | yes | * | 72 | yes | 335558 |
| 24x5/2 | 955 | 1 | 0 | 24 | yes | * | 96 | yes | 335564 |
| 24x5/2 | 956 | 1 | 0 | 24 | yes | * | 120 | yes | 335570 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

# Order table

**Variant: 3/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 78-79 | Number of islands | Number of vac. | Number of valve functions | IF** | Max. cross-section FBS ($mm^2$) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number |
|---|---|---|---|---|---|---|---|---|---|
| 8x3/2 | 907 | 2 | 0 | 16 | no | * | 0 | yes | 335354 |
| 8x3/2 | 907 | 1 | 1 | 8 | no | * | 0 | yes | 335360 |
| 8x3/2 | 908 | 2 | 0 | 16 | no | * | 24 | yes | 335366 |
| 8x3/2 | 908 | 1 | 1 | 8 | no | * | 24 | yes | 335372 |
| 8x3/2 | 909 | 2 | 0 | 16 | no | * | 48 | yes | 335378 |
| 8x3/2 | 909 | 1 | 1 | 8 | no | * | 48 | yes | 335384 |
| 12x3/2 | 917 | 2 | 0 | 24 | no | * | 0 | yes | 335438 |
| 12x3/2 | 917 | 1 | 1 | 12 | no | * | 0 | yes | 335444 |
| 12x3/2 | 918 | 2 | 0 | 24 | no | * | 24 | yes | 335450 |
| 12x3/2 | 918 | 1 | 1 | 12 | no | * | 24 | yes | 335456 |
| 16x3/2 | 961 | 1 | 0 | 16 | no | * | 0 | yes | 335634 |
| 16x3/2 | 962 | 1 | 0 | 16 | no | * | 24 | yes | 335640 |
| 16x3/2 | 963 | 1 | 0 | 16 | no | * | 48 | yes | 335646 |
| 16x3/2 | 964 | 1 | 0 | 16 | no | * | 72 | yes | 335652 |
| 16x3/2 | 965 | 1 | 0 | 16 | no | * | 96 | yes | 335658 |
| 16x3/2 | 966 | 1 | 0 | 16 | no | * | 120 | yes | 335664 |
| 16x3/2 | 971 | 1 | 0 | 16 | yes | * | 0 | yes | 321314 |
| 16x3/2 | 972 | 1 | 0 | 16 | yes | * | 24 | yes | 321320 |
| 16x3/2 | 973 | 1 | 0 | 16 | yes | * | 48 | yes | 321326 |
| 16x3/2 | 974 | 1 | 0 | 16 | yes | * | 72 | yes | 321332 |
| 16x3/2 | 975 | 1 | 0 | 16 | yes | * | 96 | yes | 321338 |
| 16x3/2 | 976 | 1 | 0 | 16 | yes | * | 120 | yes | 321344 |
| 24x3/2 | 947 | 1 | 0 | 24 | no | * | 0 | yes | 335522 |
| 24x3/2 | 948 | 1 | 0 | 24 | no | * | 24 | yes | 335526 |
| 24x3/2 | 949 | 1 | 0 | 24 | no | * | 48 | yes | 335530 |
| 24x3/2 | 950 | 1 | 0 | 24 | no | * | 72 | yes | 335534 |
| 24x3/2 | 957 | 1 | 0 | 24 | yes | * | 0 | yes | 335574 |
| 24x3/2 | 958 | 1 | 0 | 24 | yes | * | 24 | yes | 335580 |
| 24x3/2 | 959 | 1 | 0 | 24 | yes | * | 48 | yes | 335586 |
| 24x3/2 | 960 | 1 | 0 | 24 | yes | * | 72 | yes | 335592 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

# Order table

**Variant: 2 x 3/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 78-79 | Number of islands | Number of vac. | Number of valve functions | IF** | Max. cross-section FBS ($mm^2$) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number |
|---|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 907 | 2 | 0 | 32 | no | * | 0 | yes | 335358 |
| 8x2x3/2 | 907 | 1 | 1 | 16 | no | * | 0 | yes | 335364 |
| 8x2x3/2 | 908 | 2 | 0 | 32 | no | * | 24 | yes | 335370 |
| 8x2x3/2 | 908 | 1 | 1 | 16 | no | * | 24 | yes | 335376 |
| 8x2x3/2 | 909 | 2 | 0 | 32 | no | * | 48 | yes | 335382 |
| 12x2x3/2 | 917 | 2 | 0 | 48 | no | * | 0 | yes | 335442 |
| 12x2x3/2 | 917 | 1 | 1 | 24 | no | * | 0 | yes | 335448 |
| 12x2x3/2 | 918 | 2 | 0 | 48 | no | * | 24 | yes | 335454 |
| 12x2x3/2 | 918 | 1 | 1 | 24 | no | * | 24 | yes | 335460 |
| 16x2x3/2 | 961 | 1 | 0 | 32 | no | * | 0 | yes | 335638 |
| 16x2x3/2 | 962 | 1 | 0 | 32 | no | * | 24 | yes | 335644 |
| 16x2x3/2 | 963 | 1 | 0 | 32 | no | * | 48 | yes | 335650 |
| 16x2x3/2 | 964 | 1 | 0 | 32 | no | * | 72 | yes | 335656 |
| 16x2x3/2 | 965 | 1 | 0 | 32 | no | * | 96 | yes | 335662 |
| 16x2x3/2 | 966 | 1 | 0 | 32 | no | * | 120 | yes | 335668 |
| 16x2x3/2 | 971 | 1 | 0 | 32 | yes | * | 0 | yes | 321318 |
| 16x2x3/2 | 972 | 1 | 0 | 32 | yes | * | 24 | yes | 321324 |
| 16x2x3/2 | 973 | 1 | 0 | 32 | yes | * | 48 | yes | 321330 |
| 16x2x3/2 | 974 | 1 | 0 | 32 | yes | * | 72 | yes | 321336 |
| 16x2x3/2 | 975 | 1 | 0 | 32 | yes | * | 96 | yes | 321342 |
| 16x2x3/2 | 976 | 1 | 0 | 32 | yes | * | 120 | yes | 321348 |
| 24x2x3/2 | 957 | 1 | 0 | 48 | yes | * | 0 | yes | 335578 |
| 24x2x3/2 | 958 | 1 | 0 | 48 | yes | * | 24 | yes | 335584 |
| 24x2x3/2 | 959 | 1 | 0 | 48 | yes | * | 48 | yes | 335590 |
| 24x2x3/2 | 960 | 1 | 0 | 48 | yes | * | 72 | yes | 335596 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

# Order table

**Variant: 5/2-way valve island variant with filter regulator**

| Valve island variant | Hole pattern see P. 78-79 | Number of islands | Number of vac. | Number of valve functions | IF** | Max. cross-section FBS ($mm^2$) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number |
|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 907 | 2 | 0 | 16 | no | * | 0 | yes | 335356 |
| 8x5/2 | 907 | 1 | 1 | 8 | no | * | 0 | yes | 335362 |
| 8x5/2 | 908 | 2 | 0 | 16 | no | * | 24 | yes | 335368 |
| 8x5/2 | 908 | 1 | 1 | 8 | no | * | 24 | yes | 335374 |
| 8x5/2 | 909 | 2 | 0 | 16 | no | * | 48 | yes | 335380 |
| 8x5/2 | 909 | 1 | 1 | 8 | no | * | 48 | yes | 335386 |
| 12x5/2 | 917 | 2 | 0 | 24 | no | * | 0 | yes | 335440 |
| 12x5/2 | 917 | 1 | 1 | 12 | no | * | 0 | yes | 335446 |
| 12x5/2 | 918 | 2 | 0 | 24 | no | * | 24 | yes | 335452 |
| 12x5/2 | 918 | 1 | 1 | 12 | no | * | 24 | yes | 335458 |
| 16x5/2 | 961 | 1 | 0 | 16 | no | * | 0 | yes | 335636 |
| 16x5/2 | 962 | 1 | 0 | 16 | no | * | 24 | yes | 335642 |
| 16x5/2 | 963 | 1 | 0 | 16 | no | * | 48 | yes | 335648 |
| 16x5/2 | 964 | 1 | 0 | 16 | no | * | 72 | yes | 335654 |
| 16x5/2 | 965 | 1 | 0 | 16 | no | * | 96 | yes | 335660 |
| 16x5/2 | 966 | 1 | 0 | 16 | no | * | 120 | yes | 335666 |
| 16x5/2 | 971 | 1 | 0 | 16 | yes | * | 0 | yes | 321316 |
| 16x5/2 | 972 | 1 | 0 | 16 | yes | * | 24 | yes | 321322 |
| 16x5/2 | 973 | 1 | 0 | 16 | yes | * | 48 | yes | 321328 |
| 16x5/2 | 974 | 1 | 0 | 16 | yes | * | 72 | yes | 321334 |
| 16x5/2 | 975 | 1 | 0 | 16 | yes | * | 96 | yes | 321340 |
| 16x5/2 | 976 | 1 | 0 | 16 | yes | * | 120 | yes | 321346 |
| 24x5/2 | 947 | 1 | 0 | 24 | no | * | 0 | yes | 335524 |
| 24x5/2 | 948 | 1 | 0 | 24 | no | * | 24 | yes | 335528 |
| 24x5/2 | 949 | 1 | 0 | 24 | no | * | 48 | yes | 335532 |
| 24x5/2 | 950 | 1 | 0 | 24 | no | * | 72 | yes | 335536 |
| 24x5/2 | 957 | 1 | 0 | 24 | yes | * | 0 | yes | 335576 |
| 24x5/2 | 958 | 1 | 0 | 24 | yes | * | 24 | yes | 335582 |
| 24x5/2 | 959 | 1 | 0 | 24 | yes | * | 48 | yes | 335588 |
| 24x5/2 | 960 | 1 | 0 | 24 | yes | * | 72 | yes | 335594 |

* Note the specifications of the I/O system manufacturer
** Intermediate feed

**Note:**

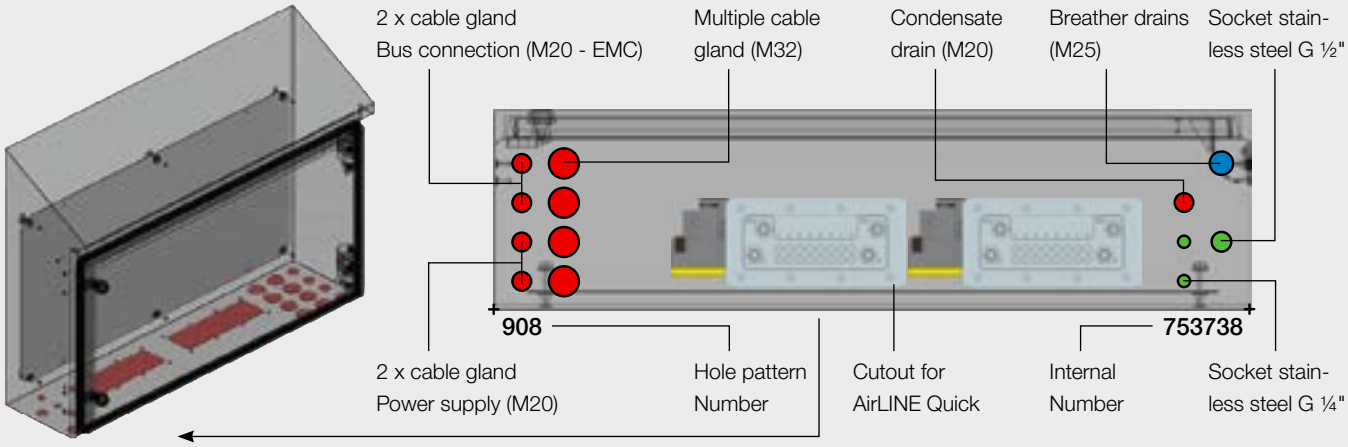
The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

## Description of hole pattern



Automation system Type 8614 with valve island Type 8647, installation width 810 mm

# Hole patterns

8-fold valve island
Type 8647
Installation width 810 mm


901 753731


902 753732


903 753733


904 753734


905 753735


906 753736


907 753737


908 753738


909 753739

12-fold valve island
Type 8647
Installation width 810 mm


911 753740

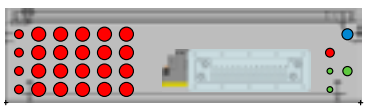

912 753741


913 753742


914 753743


917 753744


918 753745


966 753786

16-fold valve island
Type 8647
Installation width 810 mm


921 753746


922 753747

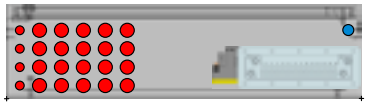

923 753769


924 753770


925 753771


926 753772


927 753773


928 753774


961 753781


962 753782


963 753783

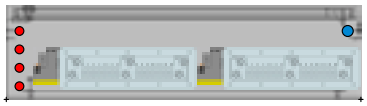

964 753784


965 753785

Automation system Type 8614 with valve island Type 8647, installation width 810 mm

# Hole patterns

16-fold valve island (w. IF)
Type 8647
Installation width 810 mm


931 753748

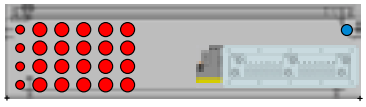

933 753775

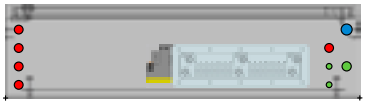

934 753776

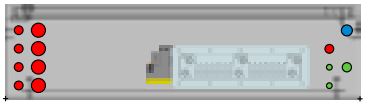

935 753777


936 753778


937 753779


938 753780


971 753787

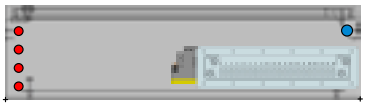

972 753788

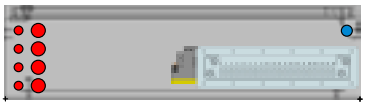

973 753789

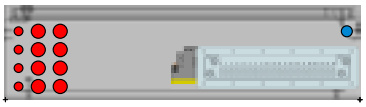

974 753790

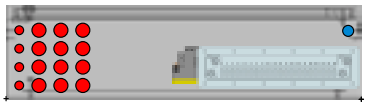

975 753791

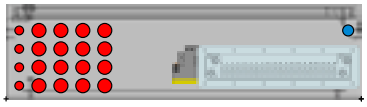
24-fold valve island (w/o IF)
Type 8647
Installation width 810 mm

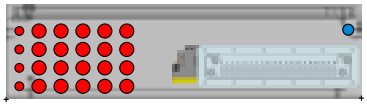

941 753749

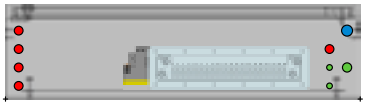

942 753750

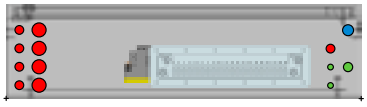

943 753751

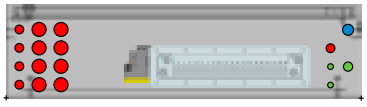

944 753752

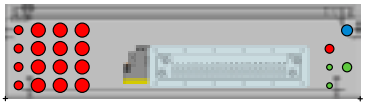

945 753753

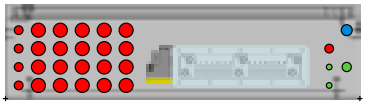

946 753754


947 753755

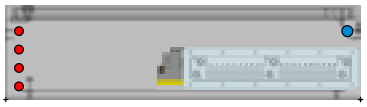

948 753756

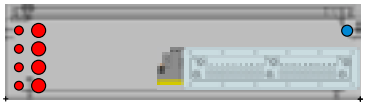

949 753757

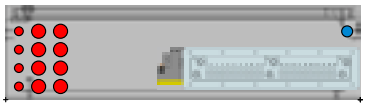

950 753758

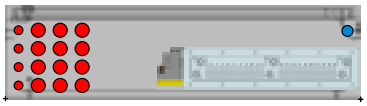

976 753792

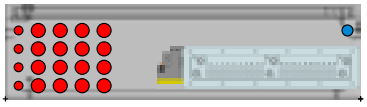
24-fold valve island (w. IF)
Type 8647
Installation width 810 mm


951 753759

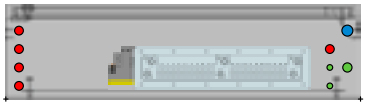

952 753760

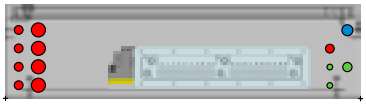

953 753761

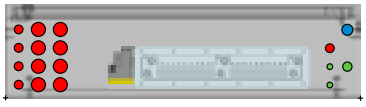

954 753762

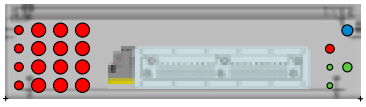

955 753763


956 753764


957 753765


958 753766


959 753767


960 753768

w. IF = with intermediate feed
w/o IF = without intermediate feed

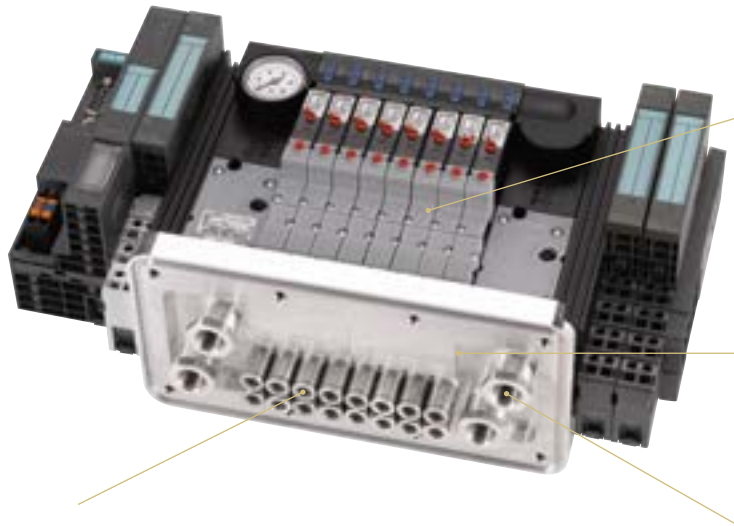
# Valve island AirLINE Quick Type 8644

## The solution for controlling complete process loops

In conjunction with the valve island AirLINE Quick Type 8644, you can monitor and control complete process loops including the flow rate, temperature and fill level.
On the modular valve island AirLINE Quick Type 8644, you can install pneumatic modules with different numbers of valves to realise 8 to 48 valve functions on a single valve island.

**Features:**

- High plant availability thanks to integrated hot-swap function among other things
- High process reliability
- Fast and easy installation
- Optimum cleaning and hygiene
- Compatible with many I/O systems (Siemens ET200S, Wago 750, Rockwell Point on request)
- Innovative fieldbus interface
- High level of flexibility
- Standardised modular structure
- Short delivery times for a defined standard range of valve islands (in some cases from stock)



Type 8644:
8,16 and 32 valve functions
per station

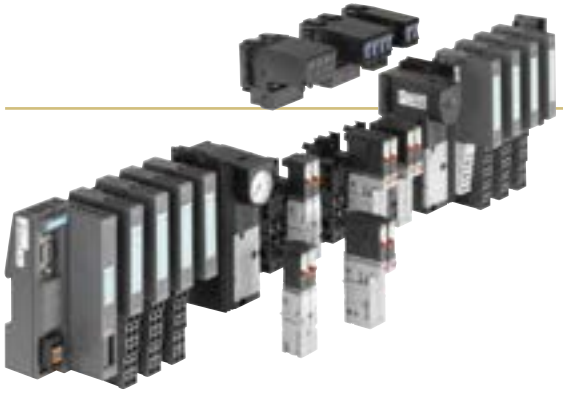
AirLINE Quick adapter
in stainless steel 1.4301

Pneumatic working ports
in stainless steel 1.4301:
- Push-in 6 mm
- D 1/4

Pneumatic ports
Supply/disposal
- G ¼"
- NPT 1/4

# Valve island AirLINE Quick Type 8644

## Our cooperation partners



### AirLINE Quick Type 8644

**Siemens ET 200S I/O system**

Modular, pneumatic valve island with fieldbus and digital/analogue I/O modules. This automation system is suitable for all functions, including application in ATEX Zone 2 potentially explosive areas.
Fieldbus interfaces: PROFIBUS DP, PROFINET

### AirLINE Quick Type 8644

**WAGO I/O system 750**

The automation system AirLINE Quick for process control is fully compatible with the WAGO I/O system 750 and integrates pneumatic valves, I/O for remote operation and fieldbus communication in a single compact and flexible assembly. Fieldbus interfaces: e.g. PROFIBUS DP, EtherNet/IP, PROFINET I/O

### AirLINE Type 8644

**Rockwell Point I/O system (on request)**

Fully compatible with Rockwell Point I/O system with degree of protection IP20.
Fieldbus interfaces: e.g. ControlNet, DeviceNet, EtherNet/IP, PROFINET DP

**The valve island is supplied as a valve block only without electrical components from partners Siemens, Wago and Rockwell (on request).**

# AirLINE Quick Type 8644 with 3/2- and 5/2-way function

## including process safety function, pneumatic hot-swap function and check valves

In the tables below, you will find the standard order numbers for Type 8644 with the AirLINE Quick adapter plate in stainless steel 1.4301. This refers solely to the compatible pneumatic system for the respective cooperation partner in each case.

This purely pneumatic valve module by Bürkert can easily be integrated directly in the I/O systems of Siemens ET 200S, Wago I/O system 750 and Rockwell Point I/O system (on request).

| Application areas |
|---|
| For hygienic applications using AirLINE Quick in stainless steel |

| Functions | |
|---|---|
| With pneumatic hot-swap function | |
| With check valves in the R and S channel | |
| Flow rate of the valves (QNn-value) | 150 l/min |
| Pressure range | 2.5 – 10 bar |
| Pneumatic feed | G ¼" |
| Pneumatic working ports | 6 mm push-in |

Valve island AirLINE Quick Type 8644

# Order table

| Valve functions | compatible with | |
|---|---|---|
| | Siemens ET 200S | Wago I/O system 750 |
| 8x3/2 | 239942 | 239971 |
| 8x5/2 | 239945 | 239974 |
| 8x2x3/2 | 239938 | 239968 |
| 12x5/2 | 253755 | 253760 |
| 12x2x3/2 | 244417 | 248123 |
| 16x5/2 | 239947 | 239977 |
| 16x2x3/2 | 239940 | 239969 |
| 16x2x3/2* | 254943 | 254947 |
| 24x5/2 | 248093 | 248108 |
| 24x2x3/2* | 248102 | 248098 |

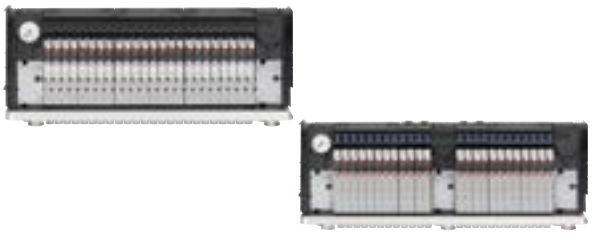
* with middle feed module

## Examples

AirLINE Quick Type 8644
with 8x5/2- or 2x3/2-on/off valves

AirLINE Quick Type 8644
with 12x5/2- or 2x3/2-on/off valves

AirLINE Quick Type 8644
with 16x5/2- or 2x3/2-on/off valves



AirLINE Quick Type 8644
with 24x5/2- or 2x3/2-on/off valves

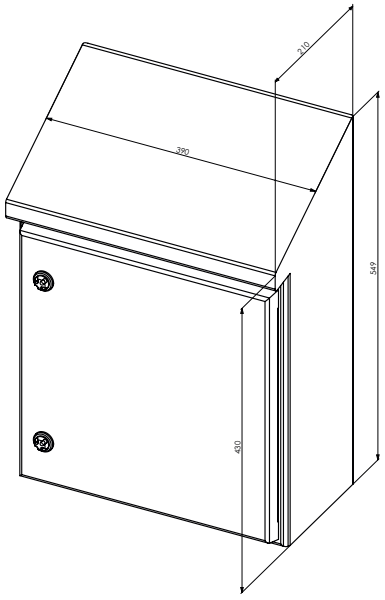
## Installation width 390 mm

Max. expansion variant:

- One valve island
- 16x2x3/2-way function
- 48 bushings for electrical Control lines

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 390 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 V AC |
| Valve island | 24 V DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 60 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O system | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | Note the specifications of the I/O system manufacturer |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 25 kg |




* see order table

Automation system Type 8614 with valve island Type 8644, installation width 390 mm

# Order table

### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 87 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O |
|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 401 | 16 | * | - | + | 279881 | 279882 | on request |
| 8x2x3/2 | 402 | 16 | * | 24 | + | 279885 | 279886 | on request |
| 8x2x3/2 | 403 | 16 | * | 48 | + | 279889 | 279890 | on request |
| 12x2x3/2 | 410 | 24 | * | - | + | 279897 | 279898 | on request |
| 12x2x3/2 | 411 | 24 | * | 24 | + | 279901 | 279902 | on request |
| 16x2x3/2 | 420 | 32 | * | - | + | 279905 | 279906 | on request |

* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 87 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O |
|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 401 | 8 | * | - | + | 279909 | 279910 | on request |
| 8x5/2 | 402 | 8 | * | 24 | + | 279913 | 279914 | on request |
| 8x5/2 | 403 | 8 | * | 48 | + | 279917 | 279918 | on request |
| 12x5/2 | 410 | 12 | * | - | + | 279925 | 279926 | on request |
| 12x5/2 | 411 | 12 | * | 24 | + | 279873 | 279874 | on request |
| 16x5/2 | 420 | 16 | * | - | + | 279877 | 279878 | on request |

* Note the specifications of the I/O system manufacturer

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8644, installation width 390 mm

# Order table

### Variant: 2x3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 87 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 404 | 16 | * | - | + | 279893 | 279894 | on request |

* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 87 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 404 | 8 | * | - | + | 279921 | 279922 | on request |

* Note the specifications of the I/O system manufacturer

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

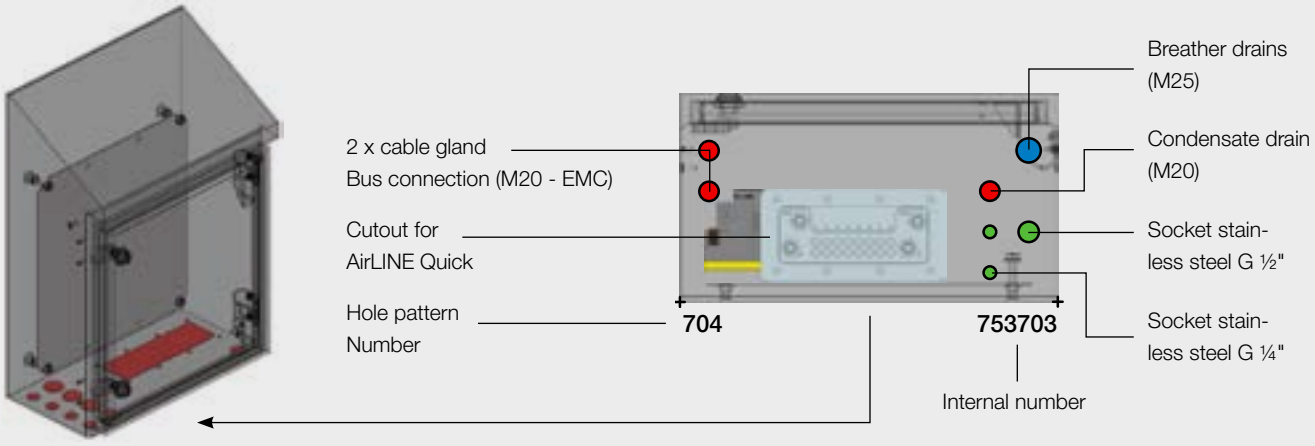
**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

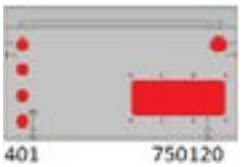
Automation system Type 8614 with valve island Type 8644, installation width 390 mm

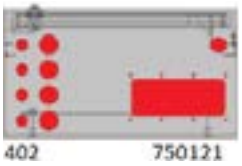
## Description of hole pattern

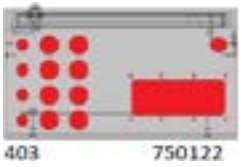



## Hole patterns

8-fold valve island
Type 8644
Installation width 390 mm

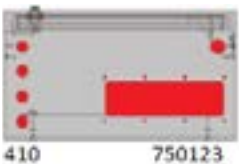


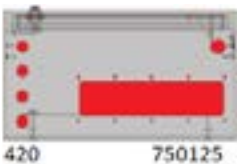


12-fold valve island
Type 8644
Installation width 390 mm





16-fold valve island (w/o IF)
Type 8644
Installation width 390 mm




w/o IF = without intermediate feed

## Installation width 510 mm

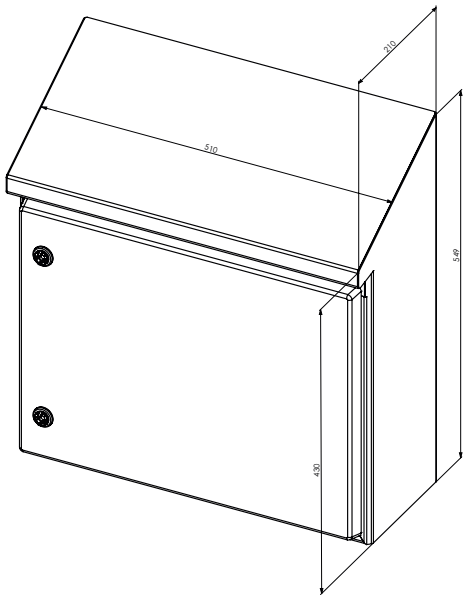
Max. expansion variant:

- One valve island
- 24x2x3/2-way function
- 96 bushings for electrical Control lines

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 510 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 V AC |
| Valve island | 24 V DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 60 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O system | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | Note the specifications of the I/O system manufacturer |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 30 kg |

*see order table



# Order table



### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 92-93 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 504 | 16 | * | 72 | + | 279781 | 279782 | on request |
| 8x2x3/2 | 505 | 16 | * | 96 | + | 279785 | 279786 | on request |
| 12x2x3/2 | 512 | 24 | * | 48 | + | 279801 | 279802 | on request |
| 12x2x3/2 | 513 | 24 | * | 72 | + | 279805 | 279806 | on request |
| 16x2x3/2 | 521 | 32 | * | 24 | + | 279817 | 279818 | on request |
| 16x2x3/2 | 522 | 32 | * | 48 | + | 279821 | 279822 | on request |
| 24x2x3/2 IF | 535 | 48 | * | - | + | 279829 | 279830 | on request |

IF = with intermediate feed
* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see P. 92-93 | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 504 | 8 | * | 72 | + | 279833 | 279834 | on request |
| 8x5/2 | 505 | 8 | * | 96 | + | 279837 | 279838 | on request |
| 12x5/2 | 512 | 12 | * | 48 | + | 279845 | 279846 | on request |
| 12x5/2 | 513 | 12 | * | 72 | + | 279849 | 279850 | on request |
| 16x5/2 | 522 | 16 | * | 48 | + | 279857 | 279858 | on request |
| 24x5/2 | 534 | 24 | * | 24 | + | 279865 | 279866 | on request |

* Note the specifications of the I/O system manufacturer

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8644, installation width 510 mm

# Order table

### Variant: 2x3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 92-93 | Number of valve functions | Max. cross-section of position feedback sensors ($mm^2$) | Inlets field I/O system Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|
| 8x2x3/2 | 506 | 16 | * | - | + | 279789 | 279790 | on request |
| 8x2x3/2 | 507 | 16 | * | 24 | + | 279793 | 279794 | on request |
| 8x2x3/2 | 508 | 16 | * | 48 | + | 279797 | 279798 | on request |
| 12x2x3/2 | 515 | 24 | * | - | + | 279809 | 279810 | on request |
| 12x2x3/2 | 516 | 24 | * | 24 | + | 279813 | 279814 | on request |
| 16x2x3/2 | 525 | 32 | * | - | + | 279825 | 279826 | on request |

* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see P. 92-93 | Number of valve functions | Max. cross-section of position feedback sensors ($mm^2$) | Inlets field I/O system Ø 6.5 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 508 | 8 | * | 48 | + | 279841 | 279842 | on request |
| 12x5/2 | 516 | 12 | * | 24 | + | 279853 | 279854 | on request |
| 16x5/2 | 525 | 16 | * | - | + | 279861 | 279862 | on request |

* Note the specifications of the I/O system manufacturer

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

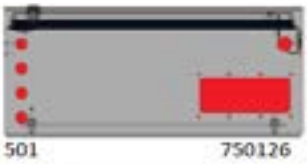
- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

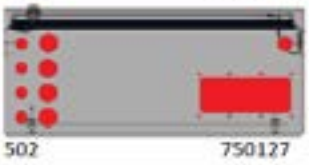
**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8644, installation width 510 mm

## Hole patterns

8-fold valve island
Type 8644
Installation width 510 mm


501 750126


502 750127


503 750128


504 750129

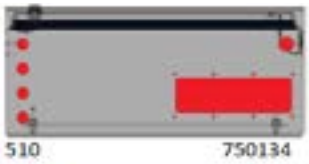

505 750130

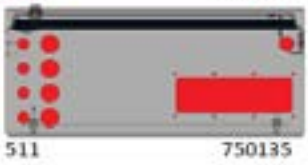

506 750131


507 750132


508 750133

12-fold valve island
Type 8644
Installation width 510 mm


510 750134


511 750135


512 750136


513 750137


515 750138


516 750139

16-fold valve island (w/o IF)
Type 8644
Installation width 510 mm


520 750140


521 750141

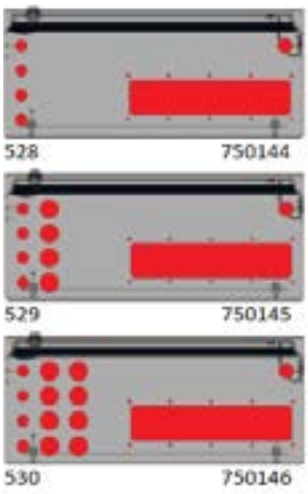

522 750142


525 750143

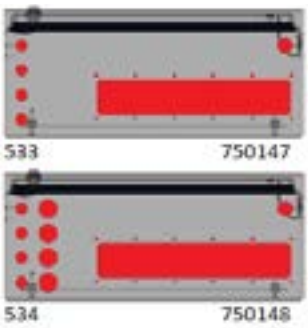
Automation system Type 8614 with valve island Type 8644, installation width 510 mm

## Hole patterns

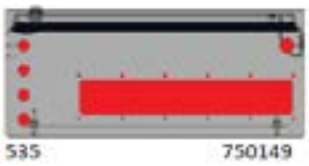
16-fold valve island (w. IF)
Type 8644
Installation width 510 mm




24-fold valve island (w/o IF)
Type 8644
Installation width 510 mm

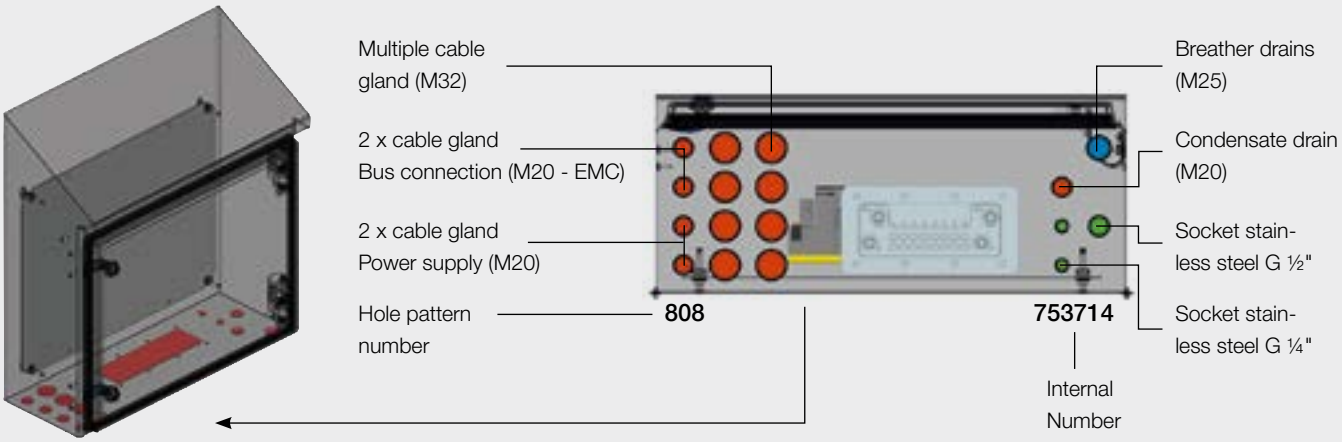



24-fold valve island (w. IF)
Type 8644
Installation width 510 mm




w. IF = with intermediate feed
w/o IF = without intermediate feed

## Description of hole pattern



## Installation width 810 mm

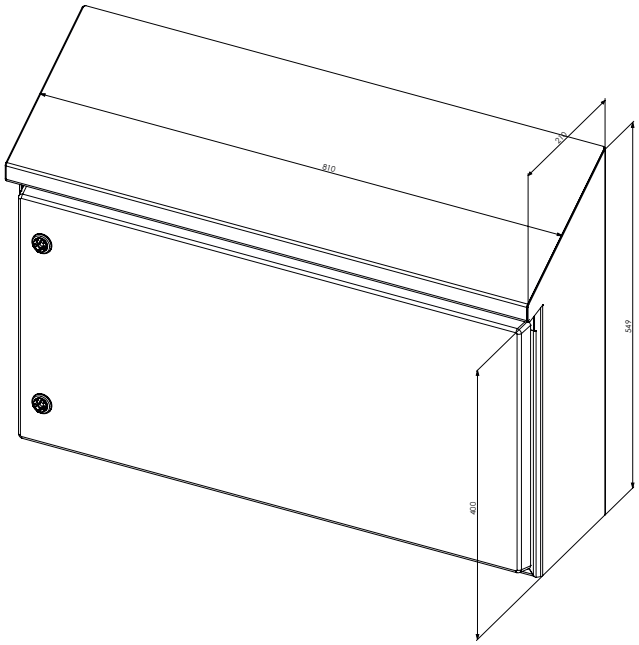
Max. expansion variant:

- Two valve islands
- 24x2x3/2-way function
- 96 bushings for electrical Control lines

### Technical data

| | |
|---|---|
| **Housing dimensions W x H x D** | 810 x 549 x 210 mm<br>Front height 430 mm |
| **Housing material, adapter plate, cable glands** | Stainless steel (V2A) |
| **Sealing materials used** | FKM, TPE, silicone – conforming to FDA Regulation 21 CFR 177.2600 |
| **Ambient temperature** | 0 to +40°C |
| **Medium** | Compressed air, neutral gases |
| **Medium temperature** | –10°C to +50°C |
| **Pressure range with/without filter regulator** | 2.5 to 16 bar/2.5 to 10 bar |
| **Flow rate for optional filter regulator** | 5,200 l/min |
| **Flow rate of the valves** | 150 l/min |
| **Pneumatic ports** | |
| Filter regulator (optional) | G ½" |
| Valve island feed | G ¼" |
| Working ports valve | Ø 6 mm push-in |
| **Power supply** | |
| Power supply unit (optional) | 100 to 230 Volt AC |
| Valve island | 24 Volt DC |
| **Voltage tolerance** | +/–10 % |
| **Total output** | 120 VA |
| **Duty cycle** | 100 % duty cycle |
| **Cable diameter** | |
| Power supply | 7.0 to 10.5 mm VA-M20 |
| Communication | 6.5 to 9.5 mm VA-M20-EMC |
| Field I/O system | 6.5 mm/5.5 mm* VA-M32 |
| Connection terminals power supp. | 2.5 $mm^2$ |
| Connection terminals for position feedback sensors | Note the specifications of the I/O system manufacturer |
| **Degree of protection** | IP65 |
| **Standards** | |
| Switching device combination | EN 61439 |
| EMV | EN 61000 |
| MSR-EMC | EN 61326 |
| Documentation | EN 81346 |
| RoHS | EN 50581 |
| **Weight** | approx. 40 kg |

*see order table



Automation system Type 8614 with valve island Type 8644, installation width 810 mm

# Order table

### Variant: 2x3/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see Page 98-99 | Number of islands | Vacant position | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 16x2x3/2 | 620 | 2 | - | 64 | * | - | - | + | 279681 | 279682 | on request |
| 16x2x3/2 | 620 | 1 | 1 | 32 | * | - | - | + | 279685 | 279686 | on request |
| 16x2x3/2 | 621 | 2 | - | 64 | * | 24 | - | + | 279689 | 279690 | on request |
| 16x2x3/2 | 621 | 1 | 1 | 32 | * | 24 | - | + | 279693 | 279694 | on request |
| 24x2x3/2 IF | 638 | 1 | - | 48 | * | - | - | + | 279697 | 279698 | on request |
| 24x2x3/2 IF | 639 | 1 | - | 48 | * | 24 | - | + | 279701 | 279702 | on request |
| 24x2x3/2 IF | 640 | 1 | - | 48 | * | 48 | - | + | 279705 | 279706 | on request |
| 24x2x3/2 IF | 641 | 1 | - | 48 | * | 72 | - | + | 279709 | 279710 | on request |
| 24x2x3/2 IF | 642 | 1 | - | 48 | * | 96 | - | + | 279713 | 279714 | on request |

IF = with intermediate feed
* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant without filter regulator

| Valve island variant | Hole pattern see Page 98-99 | Number of islands | Vacant position | Number of valve functions | Max. cross-section of position feedback sensors (mm²) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 603 | 2 | - | 16 | * | 48 | - | + | 279729 | 279730 | on request |
| 8x5/2 | 603 | 1 | 1 | 8 | * | 48 | - | + | 279733 | 279734 | on request |
| 12x5/2 | 613 | 2 | - | 24 | * | 72 | - | + | 279737 | 279738 | on request |
| 12x5/2 | 613 | 1 | 1 | 12 | * | 72 | - | + | 279741 | 279742 | on request |
| 16x5/2 | 621 | 2 | - | 32 | * | - | 32 | + | 279745 | 279746 | on request |
| 16x5/2 | 621 | 1 | 1 | 16 | * | - | 32 | + | 279749 | 279750 | on request |
| 24x5/2 | 632 | 1 | - | 24 | * | 48 | - | + | 279753 | 279754 | on request |
| 24x5/2 | 633 | 1 | - | 24 | * | 72 | - | + | 279757 | 279758 | on request |
| 24x5/2 | 634 | 1 | - | 24 | * | 96 | - | + | 279761 | 279762 | on request |

* Note the specifications of the I/O system manufacturer

**Note:**

The I/O system is not part of the identification number and must be ordered and configured separately.

**Options/assemblies:**

- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

Automation system Type 8614 with valve island Type 8644, installation width 810 mm

# Order table

### Variant: 2x3/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see Page 98-99 | Number of islands | Vacant position | Number of valve functions | Max. cross-section of position feedback sensors ($mm^2$) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 24x2x3/2 IF | 643 | 1 | - | 48 | * | - | - | + | 279717 | 279718 | on request |
| 24x2x3/2 IF | 644 | 1 | - | 48 | * | 24 | - | + | 279721 | 279722 | on request |
| 24x2x3/2 IF | 645 | 1 | - | 48 | * | 48 | - | + | 279725 | 279726 | on request |

IF = with intermediate feed
* Note the specifications of the I/O system manufacturer

### Variant: 5/2-way valve island variant with filter regulator

| Valve island variant | Hole pattern see Page 98-99 | Number of islands | Vacant position | Number of valve functions | Max. cross-section of position feedback sensors ($mm^2$) | Inlets field I/O system Ø 6.5 mm | Inlets field I/O system Ø 5.3 mm | Standard rail I/O system | Ident. number Siemens ET 200S | Ident. number Wago I/O system 750 | Ident. number Rockwell Point I/O system |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 8x5/2 | 608 | 2 | - | 16 | * | 48 | - | + | 279765 | 279766 | on request |
| 12x5/2 | 616 | 2 | - | 24 | * | 24 | - | + | 279769 | 279770 | on request |
| 24x5/2 | 637 | 1 | - | 24 | * | 48 | - | + | 279773 | 279774 | on request |

* Note the specifications of the I/O system manufacturer

### Note:

The I/O system is not part of the identification number and must be ordered and configured separately.

### Options/assemblies:

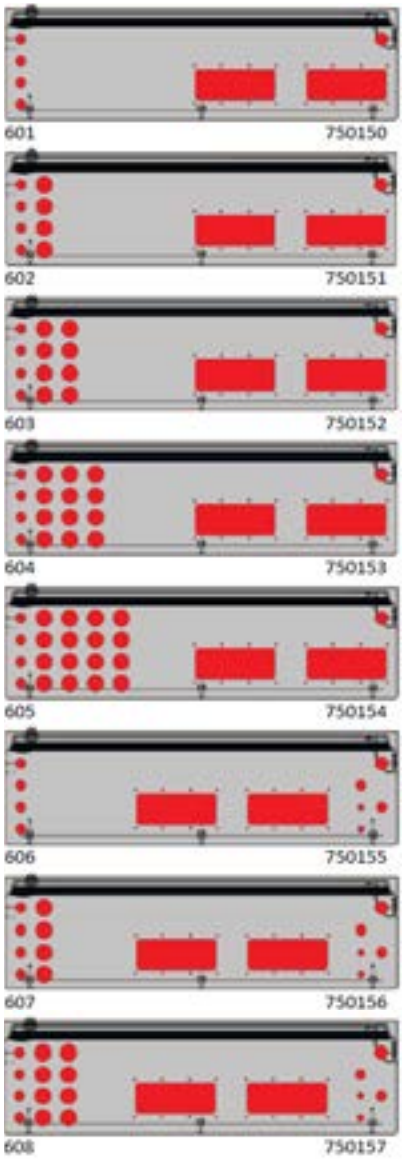
- Pressure switch mounted and cables/hoses fitted
- Power supply unit mounted and wired
- Wall spacer set mounted

**You can find options/assemblies and accessories on pages 100 - 105**

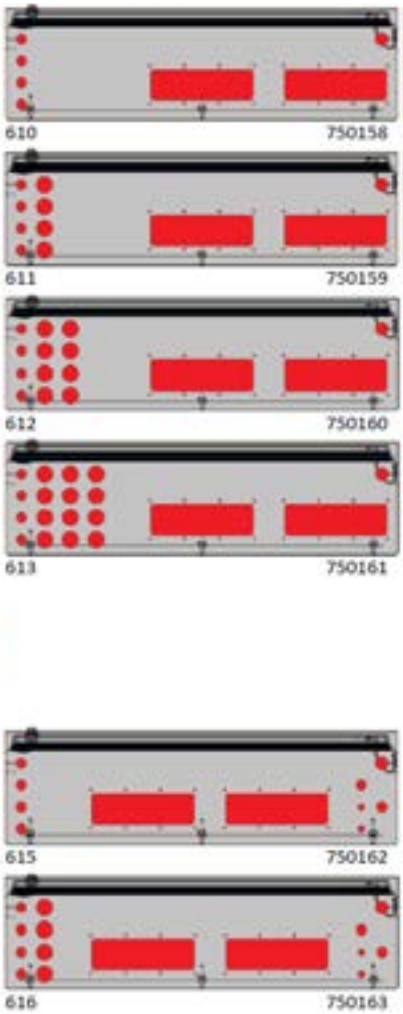
Automation system Type 8614 with valve island Type 8644, installation width 810 mm

# Hole patterns

8-fold valve island Type 8644
Installation width 810 mm




12-fold valve island Type 8644
Installation width 810 mm



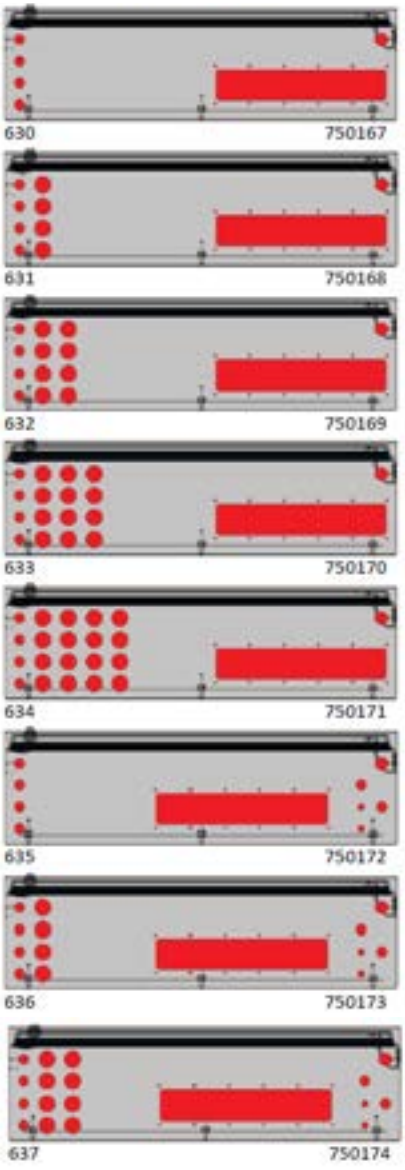

16-fold valve island (w/o IF) Type 8644
Installation width 810 mm

Automation system Type 8614 with valve island Type 8644, installation width 810 mm

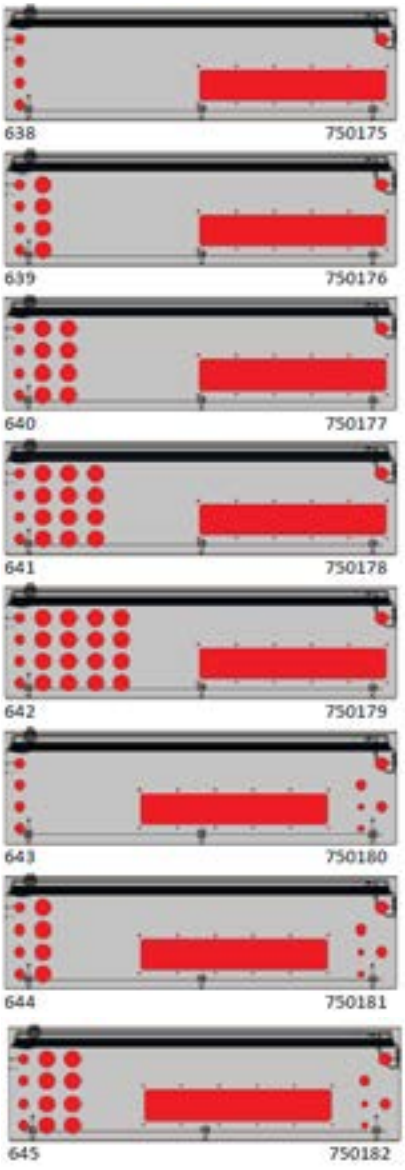
## Hole patterns

16-fold valve island (w. IF)
Type 8644
Installation width 810 mm


24-fold valve island (w/o IF)
Type 8644
Installation width 810 mm

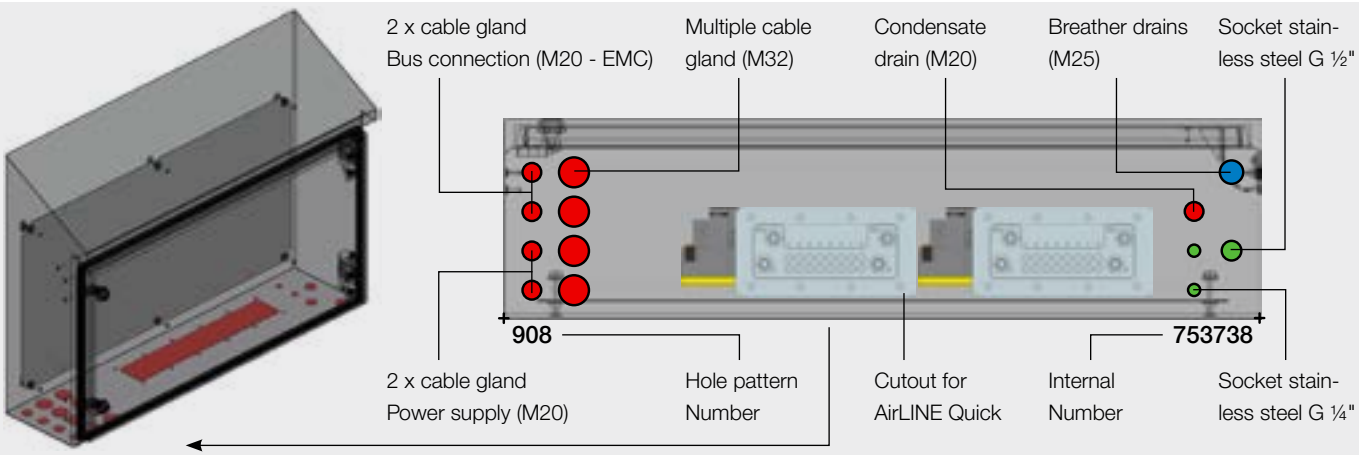



24-fold valve island (w. IF)
Type 8644
Installation width 810 mm




w. IF = with intermediate feed
w/o IF = without intermediate feed

## Description of hole pattern



## Wall spacer
## hygienic design

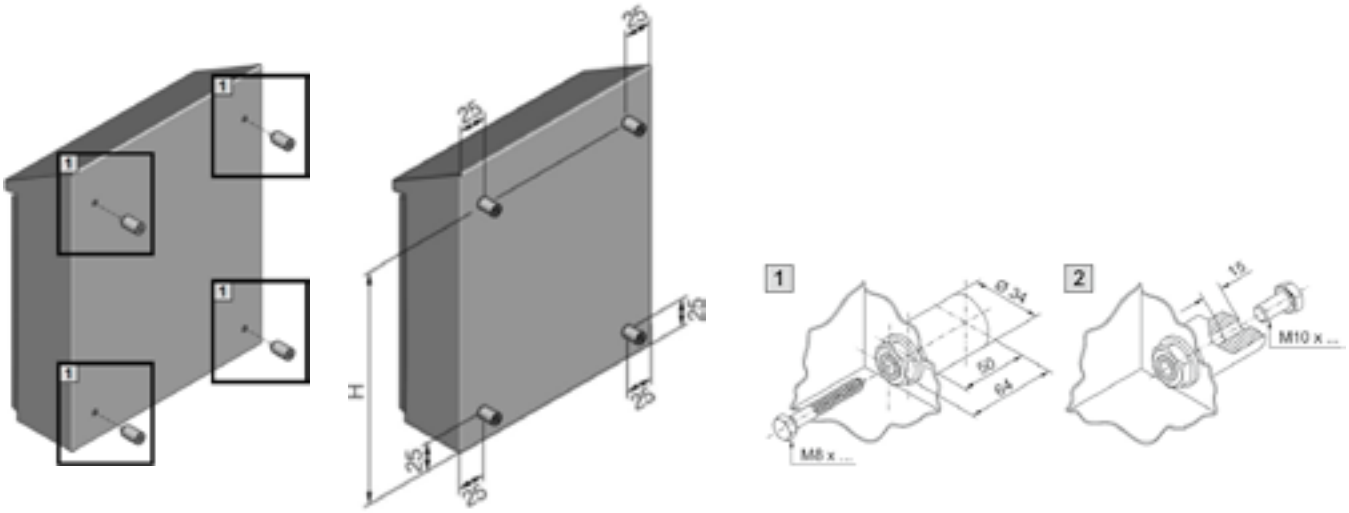
- Creates space for cleaning even behind the housing
- Ensures greater hygiene safety by avoiding dead space between housing and wall that cannot be monitored
- Fully assembled

### Technical data

| | |
|---|---|
| **Material** | Stainless steel 1.4301 (AISI 304) |
| **Surface** | Surface roughness height RA < 0.8 µm |
| **Wall spacing** | 50 mm |
| **Diameter** | 34 mm |
| **Conformity** | All seals conform to FDA Regulation 21 CFR 177.2600 |
| **Weight** | 1.6 kg/set (consisting of 4 wall spacers) |

## Order table

| | |
|---|---|
| **Wall spacer set consisting of 4 wall spacers, fully assembled** | 795481 |




H = 410 mm

## Option/assembly

## Pressure switch, fully mounted and cables/hoses fitted

- Additional cable gland for direct connection via cable connector
- Pressure switch mounted on stainless steel bracket
- Front adjusting screw

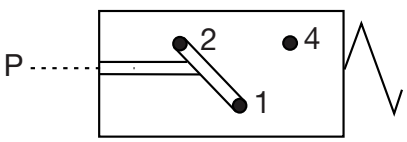
### Technical data (pressure switch)

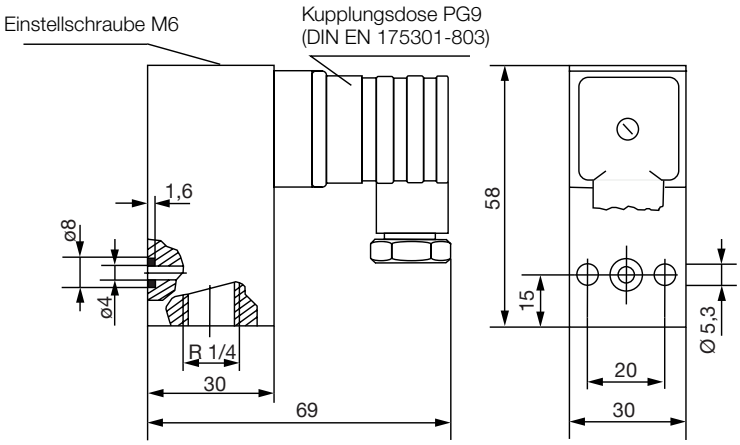
| | |
|---|---|
| **Material** | steel galvanised |
| **switching function** | Changeover contact |
| **Setting range** | 1 – 10 bar |
| **Bursting pressure** | 20 bar |
| **Design** | Spring-loaded diaphragm |
| **Diaphragm** | NBR |
| **Medium** | Air, hydraulic oil, oil emulsion, water |
| **Medium temperature** | –25 to +85°C |
| **Switch-back difference** | 15 – 25 % |
| **Switching frequency** | max. 200/min. |
| **Mechanical service life** | $10^6$ switching cycles |
| **switching voltage** | max. 250 V/UC |
| **Degree of protection** | IP65 with device socket Type 2508 |

## Order table (only possible in conjunction with built-in filter regulator)

| | |
|---|---|
| **Pressure switch, fully mounted and cables/hoses fitted** | 795486 |

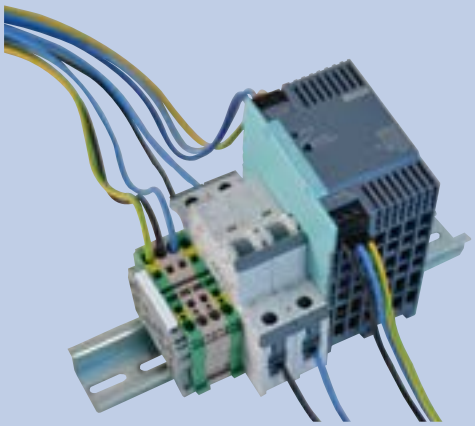
### Wechsler



## Power supply unit, fully mounted and wired

- Low energy consumption due to high efficiency
- Minimum energy losses at idle
- Small installation space required due to slender design



### Technical data

| | |
|---|---|
| Input voltage-nominal range<br>-operating range | AC 100–230 V<br>AC 85–264 V/DC 110–300 V |
| **Mains buffering** | > 20 ms (at AC 120/230 V) |
| **Nominal frequency-nominal value** | 50/60 Hz |
| **Input current-nominal value**<br>- recommended circuit breaker | 1.56–0.75 A<br>Char. C: from 10 A, Char. B: from 16 A |
| **Output voltage-nominal value**<br>- Tolerance<br>- Setting range | DC 24 V<br>± 3 %<br>DC 22.2–26.4 V |
| **Output current-nominal value**<br>- Derating range | 4 A<br>+50°C to 70°C |
| **Degree of efficiency at nominal values** | approx. 88 % |
| **No-load losses** | < 0.75 W |
| **Switchable in parallel** | yes |
| **Electronic short-circuit protection** | yes, restart |
| **Interference noise suppression (EN 55022)** | Class B |
| **Degree of protection (EN 60529)** | IP20 |
| **Ambient temperature** | –20 to +70°C |
| **Ports** | Removable screw-type terminals |
| **Circuit breaker** | 1/N C6A |
| **Connection terminals (max. 4 mm²) for input voltage** | 85–264 VAC |
| **certifications** | CE, UL, CSA, ATEX |
| **Assembly dimensions (B x H x D)** | 125 x 90 x 115 mm |
| **Siemens power supply unit** | PSU100C/4A* |

* other makes subject to consultation

## Order table

| | |
|---|---|
| **Power supply unit, fully mounted and wired** | 795497 |

## Solenoid valve for pneumatic applications

- Type 6524 – 3/2-way and 2x3/2-way
- Type 6525 – 5/2-way
- Low power consumption
- Fast switching times
- Second port for separation from the bus signal
- Compact design

With shut-off function for safety-related Switching operations (see page 118)

### Technical data

| | |
|---|---|
| **Nominal diameter** | DN 4.0 mm |
| **Body material** | PPS, PA |
| **Seal material** | FKM |
| **Media** | Compressed air oiled, oil-free, dry; neutral gases (5µm filter recommended) |
| **Medium temperature** | –10 to +50°C |
| **Ambient temperature** | –10 to +50°C |
| **Manual override** | Standard |
| **Port connection** | Flange for MP11 |
| **Pneumatic modules** | Type MP11 with M5, M7, plug-in coupling Ø 6 mm |
| **Voltage tolerance** | ± 10 % |
| **Switching times** | approximately 1000 c.p.m. |
| **Operating voltage** | 24 V DC* |
| **Nominal power** | 0.8 W/2 x 0.8 W (2x3/2-way) |
| **Nominal operating mode** | Continuous operation (100 % duty cycle) |
| **Electr. connection on the valve** | Rectangular connector with raster 5.08 mm, rectangular connector 2.42, 3-pin (2x3/2-way) |
| **Degree of protection** | IP40 with rectangular connector |
| **Protection class** | 3 according to VDE 0580 |
| **Installation** | with 2 screws M2 x 20/2 screws M2 x 28 (2x3/2-way) |
| **Installation position** | any, preferably actuator face up |

* 10 % residual ripple permissible

| | |
|---|---|
| **Switching times [ms]** | Measurement acc. to ISO 12238 |
| **Opening** | <10 ms |
| **Closing** | <10 ms |

## Order table (second connection with shut-off function, without manual override)

| Type | Circuit function | Nominal diameter [mm] | QNn value Air[1] [l/min.] | Pressure range[2] [bar] | Voltage/ Frequency [V/Hz] | Integrated power reduction | Ident. number |
|---|---|---|---|---|---|---|---|
| 6524 | **C** 3/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | No | 285545 |
| 6524 | **C** 2x3/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | Yes[3] | 285547 |
| 6525 | **H** 5/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | No | 285544 |

* 10 % residual ripple permissible

[1] Measurement at +20 °C, 6 bar pressure at the valve inlet and 1 bar pressure difference
[2] Overpressure with respect to atmospheric pressure
[3] Can be used in valve island Type 8640, AirLINE Type 8644 or valve blocks

# Solenoid valve for pneumatic applications

- For valve island Type 8652
- With shut-off function for safety-related switching operations
- Second port for shutdown
- Maximum flexibility and reliability
- Switch high pressures with low power consumption
- Short switching times

With shut-off function for safety-related switching operations

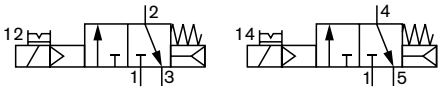
## Technical data

| | |
|---|---|
| **Nominal diameter** | DN 4.0 mm |
| **Body material** | PA |
| **Seal material** | NBR and PUR |
| **Media** | Compressed air oiled, oil-free, dry; neutral gases (5 µm filter recommended) |
| **Working ports** | Flange for MP15 |
| **Air supply connection** | Flange for MP15 |
| **Manual override available/lockable** | Yes/yes |
| **Installation position** | any |
| **Installation** | 1 screw M4 x 10 |
| **Flow: QNn value air [l/min]** | Measurement at +20 °C, 6 bar pressure at the valve inlet and 1 bar pressure difference |
| **Pressure data [bar]** | Overpressure with respect to atmospheric pressure |
| **Nominal operating mode** | Continuous operation (100 % duty cycle) |
| **Switching times [ms]** | Measured according to ISO 12238 |

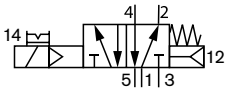
## Circuit function

2x3/2-way solenoid valve servo-assisted,

Normally closed




5/2-way solenoid valve servo-assisted




## Order table (second port for shutdown)

| Circuit function | Nominal diameter [mm] | QNn value Air[1] [l/min] | Pressure range[2] [bar] | Switching times | | Voltage/ Frequency [V/Hz] | Ident. number[2] incl. screw |
|---|---|---|---|---|---|---|---|
| | | | | Opening [ms] | Closing [ms] | | |
| **C** 2x3/2-on/off valve | 4 | 270 | Vac. 10[3] 3 ...10 | 15 | 15 | 24 V DC | 338802 |
| **H** 5/2-on/off valve | 4 | 290 | Vac. 10[3] 3 ...10 | 20 | 20 | 24 V DC | 338805 |

1) For hot-swap 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

# Plastic hose for pneumatic system

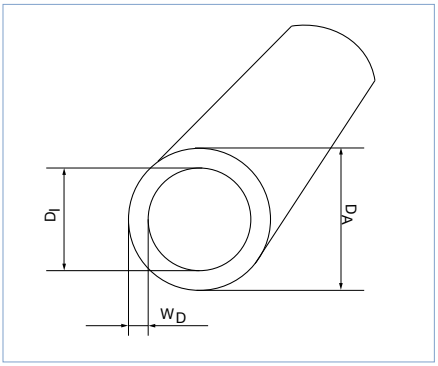
- PTFE for higher temperatures (-196°C to +250°C)
- Resistant to aggressive or corrosive media
- Food-resistant



## Order table

| Dimensions [mm] DA, DI, WD | Max. operating pressure at 20° C [bar] | Minimum bending radius Rmin [mm] | Weight [kg/m] | Roll length 50 m Colour natural ident. number |
|---|---|---|---|---|
| 6/4/1 | 12 | 18 | 3.43 | 788880 |
| 10/8/1 | 6.5 | 50 | 6.16 | 788882 |
| 12/10/1 | 5.5 | 72 | 7.55 | 788883 |

Tolerances: WD ±0.2 mm



# Other housing sizes and options on request

**Sample dimensions:**

Dimensions W x H x D: 810 x 1221 x 300 mm
Front height 1050 mm

or 810 x 1421 x 300 mm
Front height 1250 mm

# Sample configuration

| Designation | Quantity | Ident. no. | List price |
|---|---|---|---|
| Automation system Type 8614/8640, installation width 510 mm, PROFIBUS | 1 | 275512 | €4,444.00 * |
| Wall spacer set, mounted | 1 | 795481 | €333.00 * |
| Pressure switch fully mounted and cables/hoses fitted (this affects ident. number 795486) | 1 | 795486 | €222.00 * |
| Power supply unit fully mounted and wired (this affects ident. number 795497) | 1 | 795497 | €111.00 * |
| **Total price** | | | **€5,110.00 *** |

* The prices listed above are notional prices. You will receive the actual list prices for your individual project from our employees in your quotation.

**In the event of order placement, a new identification number can be created on request that consists of the respective components. This simplifies order processing for you. The accessories will be supplied loose as a separate item.**

Please consider the notes. For example, the option “Pressure switch, fully mounted and cables/hoses fitted” is only possible in conjunction with a built-in filter regulator.

## Power supply unit

- Low energy consumption due to high efficiency across the entire load range
- Minimum energy losses at idle
- Connection via push-in terminals
- Small installation space required due to slender design

### Technical data

| | |
|---|---|
| **Input voltage-nominal range**<br>– operating range | AC 100–230 V<br>AC 85–264 V/DC 110–300 V |
| **Mains buffering** | > 20 ms (at AC 120/230 V) |
| **Nominal frequency-nominal value** | 50/60 Hz |
| **Input current-nominal value**<br>– recommended circuit breaker | 1.56–0.75 A<br>Char. C: from 10 A, Char. B: from 16 A |
| **Output voltage-nominal value**<br>– Tolerance<br>– Setting range | DC 24 V<br>± 3 %<br>DC 22.2–26.4 V |
| **Output current-nominal value**<br>– Derating range | 4 A<br>+50°C to 70°C |
| **Degree of efficiency at nominal values** | approx. 88 % |
| **No-load losses** | < 0.75 W |
| **Switchable in parallel** | yes |
| **Electronic short-circuit protection** | yes, restart |
| **Interference noise suppression (EN 55022)** | Class B |
| **Degree of protection (EN 60529)** | IP20 |
| **Ambient temperature** | –20 to +70°C |
| **Ports** | Removable screw-type terminals |
| **certifications** | CE, UL, CSA, ATEX |
| **Dimensions (W x H x D)** | 52.5 x 80 x 100 mm |
| **Siemens power supply unit** | PSU100C/4A* |
| **Weight** | approx. 0.32 kg |

* other makes subject to consultation

## Order table

| | |
|---|---|
| **power supply unit** | 750884 |

## Pressure switch

- For neutral gases and liquids
- Switching point adjustable using setscrew



## Order table (without cable plug)

| Size | Variant | Setting range | Switching voltage | Material | Seal material | Port connection | Electrical connection | Ident. number |
|---|---|---|---|---|---|---|---|---|
| Flange installation | Changeover contact | 1 – 10 bar | max. 250 V/UC | Steel galvanised | NBR | G 1/4" socket | Cable plug design A | 780499 |

## Pressure gauge

- For gases and non-crystallising liquids
- Rear connection

## Order table

| Diameter | Port connection | Material | Installation position | Size | Pressure | Pressure | Ident. number |
|---|---|---|---|---|---|---|---|
| Ø 50 mm | G 1/4" | plastic | rear, centric | 1.2 | 0 – 12 bar | 0 – 160 psi | 772138 |

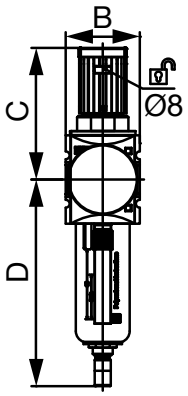
## Filter regulator

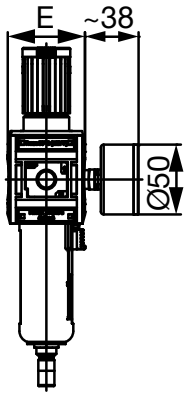
- Simple installation
- Compact design

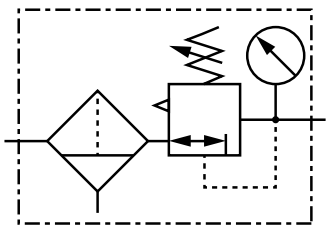


## Order table (without pressure gauge and mounting parts)

| Size | Port size | B mm | C mm | D mm | E mm | Material | Q max. at P = 6.3 bar and Δp = -1 bar, l/min. | Max. Input pressure bar (g) | Control range (bar) | Connection G-thread with autom. condensate draining<br><br>Ident. number |
|---|---|---|---|---|---|---|---|---|---|---|
| 2 | 1/2" | 63 | 110 | 147 | 67 | Grivory GV-6H | 5200 | 16 | 0.5–10 | 772110 |



# Solenoid valve for pneumatic applications

- Type 6524: 3/2-way and 2x3/2-way
- Type 6525: 5/2-way
- Low power consumption
- Fast switching times
- Compact design

Standard

## Technical data

| | |
|---|---|
| **Nominal diameter** | DN 4.0 mm |
| **Body material** | PPS, PA |
| **Seal material** | FKM |
| **Media** | Compressed air oiled, oil-free, dry; neutral gases (5 µm filter recommended) |
| **Medium temperature** | –10 to +50°C |
| **Ambient temperature** | –10 to +50°C |
| **Manual override** | Standard |
| **Port connection** | Flange for MP11 |
| **Pneumatic modules** | Type MP11 with M5, M7, plug-in coupling Ø 6 mm |
| **Voltage tolerance** | ± 10 % |
| **Switching times** | approximately 1000 c.p.m. |
| **Operating voltage** | 24 V DC* |
| **Nominal power** | 0.8 W/2 x 0.8 W (2x3/2-way) |
| **Nominal operating mode** | Continuous operation (100 % duty cycle) |
| **Electr. Connection on valve** | Rectangular connector with raster 5.08 mm,<br>Rectangular connector 2,42, 3-pin (2x3/2-way) |
| **Degree of protection** | IP40 with rectangular connector |
| **Protection class** | 3 according to VDE 0580 |
| **Installation** | with 2 screws M2 x 20/2 screws M2 x 28 (2x3/2-way) |
| **Installation position** | any, preferably actuator face up |

* 10 % residual ripple permissible

| | |
|---|---|
| **Switching times [ms]** | Measurement acc. to ISO 12238 |
| **Opening** | <10 ms |
| **Closing** | <10 ms |

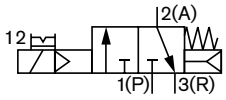
## Order table

| Type | Circuit function | Nominal diameter [mm] | QNn value Air[1] [l/min.] | Pressure range[2] [bar] | Voltage/ Frequency [V/Hz] | Integrated power reduction | Ident. number |
|---|---|---|---|---|---|---|---|
| 6524 | **C** 3/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | Yes[3] | 184043 |
| 6524 | **C** 2x3/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | Yes[3] | 186260 |
| 6524 | **C** 2x3/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | No | 204710 |
| 6525 | **H** 5/2-on/off valve | 4 | 300 | 2.5–10 | 24 V DC* | No | 179938 |

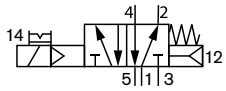
* 10 % residual ripple permissible
[1] Measurement at +20° C, 6 bar pressure at the valve inlet and 1 bar pressure difference
[2] Overpressure with respect to atmospheric pressure
[3] Can be used in valve island Type 8640, AirLINE Type 8644 or valve blocks

### Circuit function

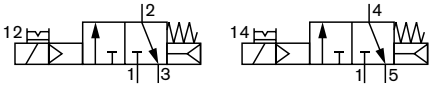
**C** 3/2-on/off valve




**H** 5/2-on/off valve




**C** 2x3/2-on/off valve



# Solenoid valve for pneumatic applications

- For valve island Type 8652
- Maximum flexibility and reliability
- Switch high pressures with low power consumption
- Short switching times

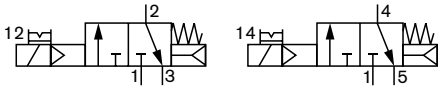
Standard

## Technical data

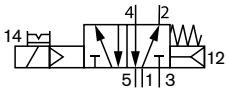
| | |
|---|---|
| **Nominal diameter** | DN 4.0 mm |
| **Body material** | PA |
| **Seal material** | NBR and PUR |
| **Media** | Compressed air oiled, oil-free, dry; neutral gases (5 µm filter recommended) |
| **Working ports** | Flange for MP15 |
| **Air supply connection** | Flange for MP15 |
| **Manual override available/lockable** | Yes/yes |
| **Installation position** | any |
| **Installation** | 1 screw M4 x 10 |
| **Flow: QNn value air [l/min]:** | Measurement at +20 °C, 6 bar pressure at the valve inlet and 1 bar pressure difference |
| **Pressure data [bar]:** | Overpressure with respect to atmospheric pressure |
| **Nominal operating mode** | Continuous operation (100 % duty cycle) |
| **Switching times [ms]** | Measured according to ISO 12238 |

### Circuit function

2x3/2-way solenoid valve servo-assisted, normally closed, with manual override




5/2-way solenoid valve, servo-assisted, with manual override




## Order table (standard)

| Circuit function | Nominal diameter [mm] | QNn value Air[1] [l/min] | Pressure range[2] [bar] | Switching times Opening [ms] | Switching times Closing [ms] | Voltage/ Frequency [V/Hz] | Ident. number[2] incl. screw |
|---|---|---|---|---|---|---|---|
| **C** 2x3/2-on/off valve | 4 | 270 | Vac. 10[3] 3 ...10 | 15 | 15 | 24 V DC | 301374 |
| **H** 5/2-on/off valve | 4 | 290 | Vac. 10[3] 3 ...10 | 20 | 25 | 24 V DC | 301376 |

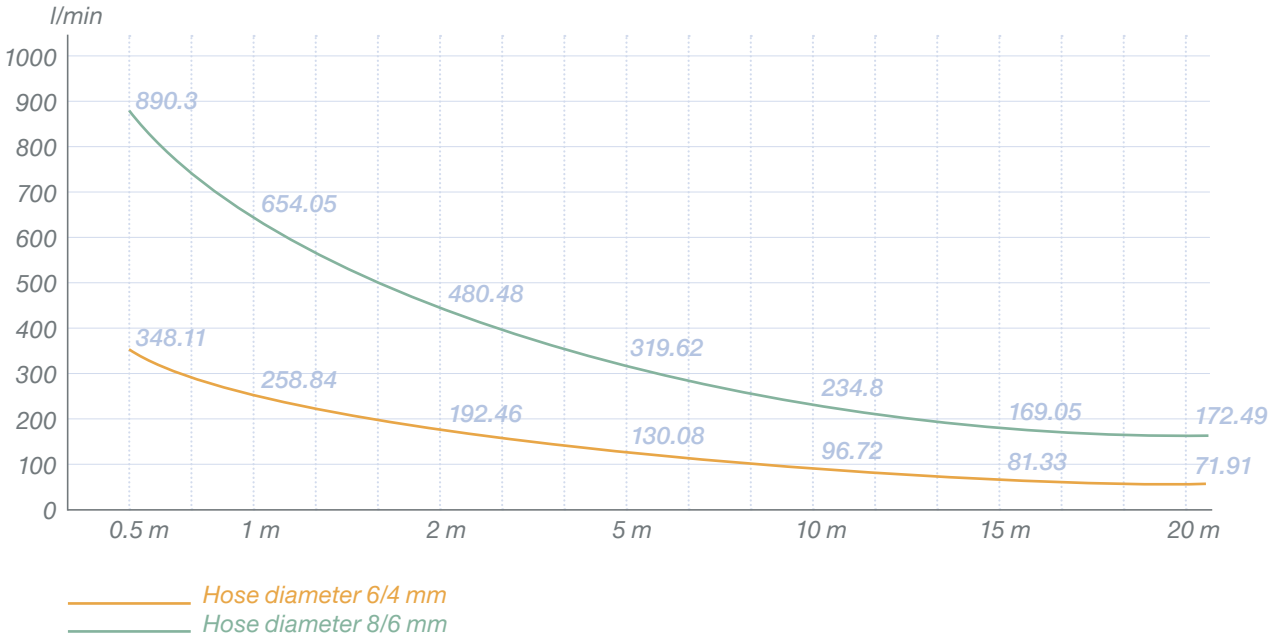
1) For hot-swap function approx. 3 % flow reduction
2) The valves are components or spare parts of the valve island Type 8652. They can be used only on the valve island Type 8652.
3) Separate auxiliary pilot air at least 3 bar, please observe the control pressure table in the operating instructions

# Flow optimisation with regard to hose length

**Reducing the hose length**

A hose presents an additional flow resistance and a disadvantageous volume. Shortening the hose length therefore reduces the volume to be filled and permits the use of “smaller” pilot valves. Experience from real-world applications shows that the flow rate has fallen to 50% after a hose length of approximately 3 – 4 metres, and by an additional 20 – 30% after an additional length of approximately 10 metres. Therefore, the selection of valves and hose dimensions must take these losses into consideration.

**$Q_{Nn}$ value (hose diameter 6/4 mm, 8/6 mm)**




The diagram shows the influence of hose lengths (6/4; 8/6 mm) on the air flow. Quantitatively similar progressions are also achieved for the hose sizes 10/8 and 12/10 mm. The measurements were taken using multiway valves at + 20 °C and an input pressure of 6 bar. The valve-island configurators include a tool for calculating the flow rates.

**Linear routing of lines**

It is also important to ensure that hoses are routed in straight lines wherever possible and kept free of kinks, crushing points and bends as these will impair the flow behaviour, i.e., by increasing flow rate losses in the hose. The diagram illustrates that an enlargement of the hose internal diameter from 6/4 mm to 8/6 mm achieves higher flow values.

# Enhanced process safety

## Pneumatic hot-swap function and check valves

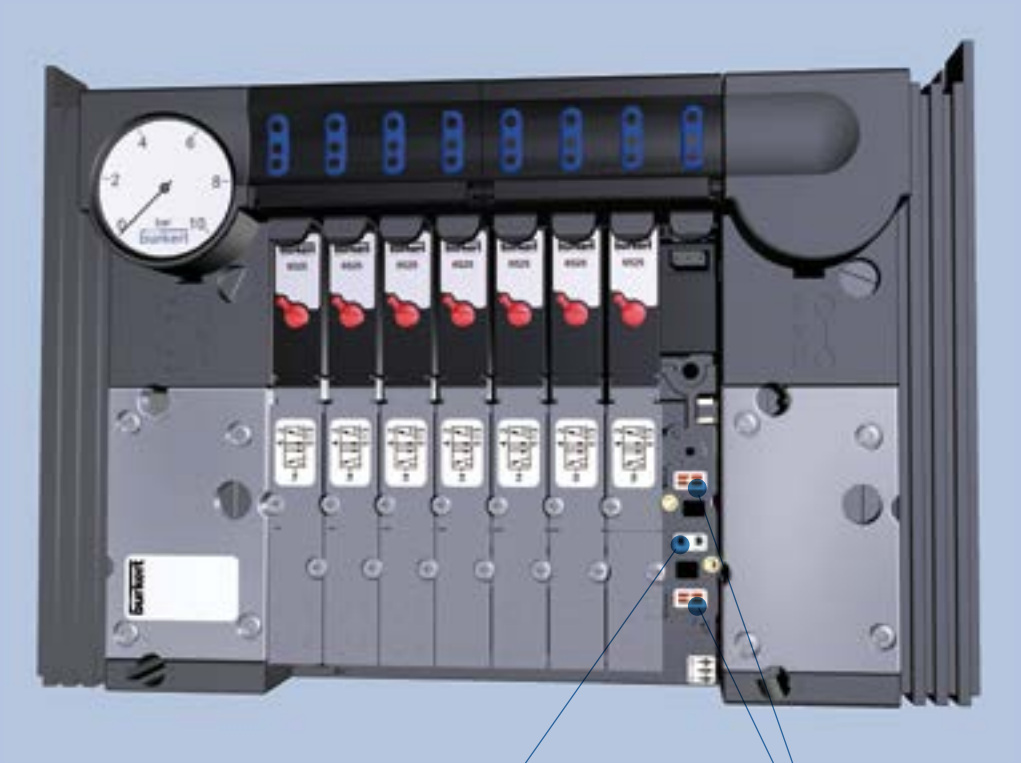

For valve blocks, valve islands and automation systems, there are two specific process reliability features such as hot-swap functionality and check valves. These process reliability features are very important particularly in the hygienic environment.

### Hot-swap function:

The Bürkert valve islands are designed to allow pilot valves to be replaced quickly and without interrupting system operation, i.e. while it is under pressure and electrically live! The integrated P channel shutoff closes the pressure channel automatically below the valve and opens it again as soon as the new valve is screwed on. You can remove the valve by loosening two fastening screws and simply pulling it away. The pneumatic hot-swap function is the first function of its kind to allow the other valves on a valve island to continue operating as normal with no need to shut down the plant component during the replacement. The result is significantly higher plant availability. The replacement of valves is supported by the ease of handling of the components.

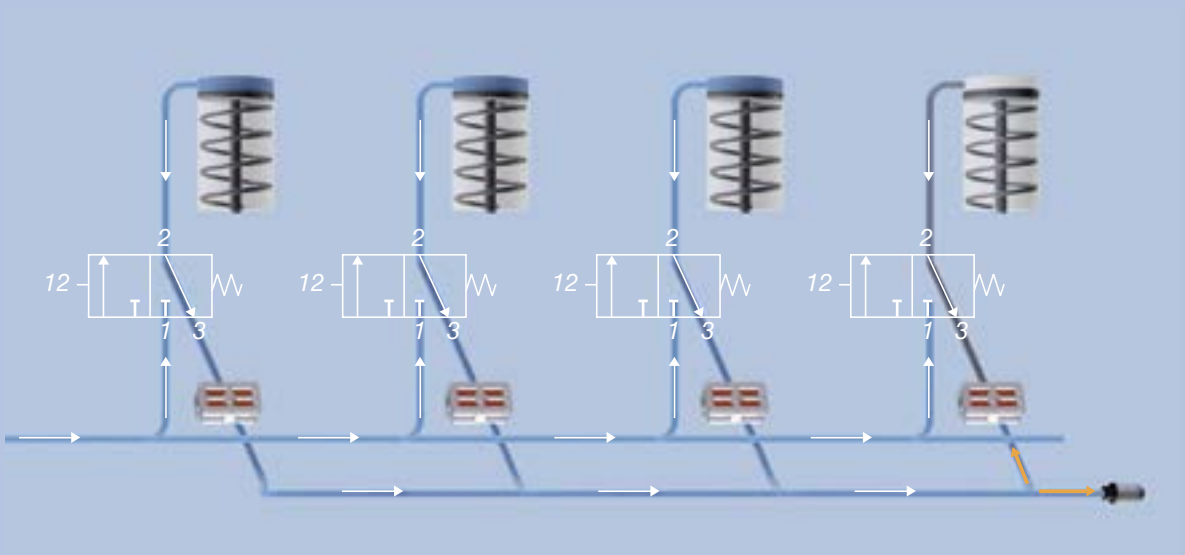
### Check valves:

Check valves in the Bürkert valve islands enhance process reliability by preventing back pressure. When multiple valves are switched, their exhaust air must be vented via the collective return air duct in the valve island. This can lead to the formation of back pressure in the valve block if venting is not completed quickly enough. In the worst-case scenario, this back pressure can bring about undefined switching statuses. This can have serious consequences for the process, for example, cleaning fluid could enter the product without being immediately detected. The integration of check valves in the basic modules of the Bürkert valve island excludes these types of errors from the outset.



*Pneumatic hot-swap function (P shutoff)*

*Check valves in the exhaust air ducts*

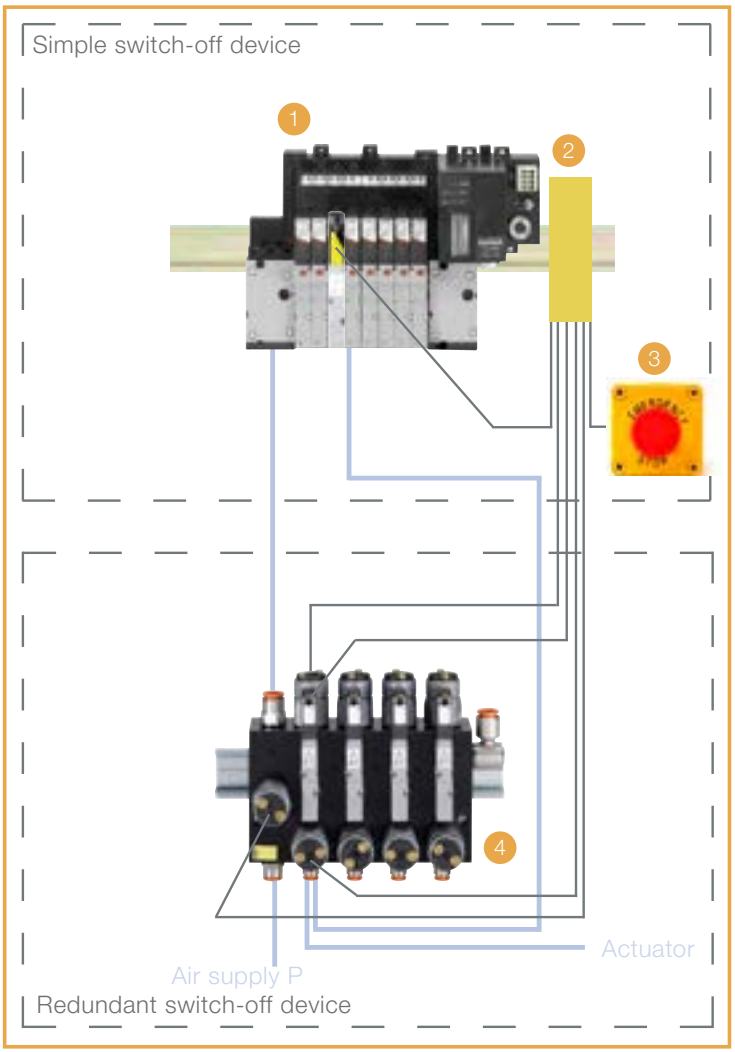



*Greater process reliability thanks to check valves*

# Safety-related shut-off of pneumatic valves

The versatile applications of valve islands Type 8640, 8644, 8647 and 8652 is extended by the pneumatic valve types 6524, 6525 and 6534 for safety-oriented shut-off.

According to the Machinery Directive EN ISO 13849, machines must be designed to function in such a way that does not cause damage to humans, the environment or to property assets. Safety is the top priority. For this reason, the versatile valve islands are also available with a patented safety-related shutdown (Type 6524, 6525 and 6534). Using these otherwise identical valves, processes can be safely shut down. With the help of a moulded cable or additional terminal, it is possible to switch off the affected valve electrically via a floating contact even though the valve it may still be actuated from the valve island. All other processes continue to operate without any time or product losses. With these valves, the processes can be safely shut down up to Performance Level C in accordance with the Machinery Directive EN ISO 13849. Performance Level D can be achieved by integrating the redundancy block (Type MKRS).




**Components**

- Valve Types 6524, 6525 1
- Emergency-Stop relay 2
- Emergency stop pushbutton 3
- Redundancy block Type MKRS 4


### Reliable and safe to operate

The innovative valves can be switched off independently of the regular switch signal control of the valve island (multipole or fieldbus communication). The electrical shutdown of the pilot valve can be demonstrated based on the B10d values (B10d values are dimensions for the product lifetime).

### Flexible retrofitting options

The valve for safe shutdown can be integrated at every valve slot on our valve islands, valves can be retrofitted to suit requirements. This allows the required performance level to be achieved retrospectively.

### Simple and compact

This practical solution significantly reduces the use of pneumatic and electrical components in the control cabinet. As a result, control cabinets can generally be of much smaller dimensions than in the past.

Pneumatic valves Types 6524, 6525 and 6534 with a second port are available in the following variants
(For technical data and order table, see P. 112-114):

- 3/2-way valve (only Type 6524, 6525)
- 5/2-way valve
- 2x 3/2-way valve

# In use with a leading manufacturer of dairy products

The installation of the Bürkert valve island AirLINE Quick Type 8614 on a new desert and yoghurt line at the dairy company's production plant in North Rhine-Westphalia qualifies as a reference project. The installation was conducted as a collaboration between the global manufacturer of milk and dairy products, a plant engineering company from southern Germany that specialises in food and the fluid control specialist Bürkert Fluid Controls Systems. This particular production plant already processes 300,000 litres of fresh milk daily, from which desert and yoghurt products are produced. Capacity has been significantly increased by the construction of a new hall and the opening of a flexible production line for pudding as well as yoghurt products, which has been fully networked since mid-2012 following the completion of no less than five parallel packaging lines. The desert line was initiated as far back as autumn 2011 – where finished products are currently filled into beakers at one-second intervals on three packaging machines before being sealed and packaged into the correct bundles ready for shipment.

### Control cabinets reliably control 2,000 pneumatic process actuators

For the design and installation of the complex production line, the plant engineers from southern Germany decided to use the compact Bürkert system Type 8614, the AirLINE Quick valve islands in the hygienic-design control cabinet. The plant consists of a computer-controlled loop with a convoluted network of stainless steel pipes, pumps, agitators, heaters and sterile tanks with a capacity of up to 12,000 litres. Almost 2,000 pneumatic process actuators are required to ensure precise delivery and circulation of a wide variety of media throughout the highly complex plant, which also includes an integrated automatic cleaning and disinfection system (CIP) for all pipelines and tanks.

### A total of 42 hygienic-design control cabinets control all processes with millisecond precision

The pneumatic drives weighing several kilogrammes – equipped with proximity switches for visual status queries – are installed in huge pneumatic clusters. These have been configured in exemplary fashion in the plant in North Rhine-Westphalia so that they can be accessed quickly and easily via metal gangways when service work is required. The process valve clusters, which precisely control to the nearest millisecond which medium in which quantity is dosed at any one time, are actuated from a total of 42 hygienic-design housings each fitted with two 24-fold AirLINE Quick valve islands including digital position feedback inputs.

### 5 metres instead of 50 metres from control cabinet to actuator

The majority of pneumatic housings, which are equipped with a PROFIBUS DP for electric actuation in the configuration used by the global diary company, are installed in the immediate vicinity of the valve clusters - and therefore in the midst of the highly sensitive hygienic process environment. "Where it used to take 20, 30 or 50 metres to reach from the control cabinet to the actuator or sensor, with this new optimised installation, sometimes just five metres will suffice," explains Seifer. Costs are further reduced because the entire plant structure is "more hygienic". This in turn reduces the cost of the cleaning process.

### Easy cleaning using the pressure washer

"Having the pneumatic cabinets so close to the process was something we had to get used to in the beginning – especially as we used to have to clean them very carefully in the past," says the company's dairy manager. As the deputy director of "preparation" at one of the four production plants in Germany, he along with his 35 employees is responsible not only for ensuring the correct ingredients and the right product mix, but also for maintaining the strict hygiene standards. "We always take great care whenever we have to treat the AirLINE Quick valve islands with hygienic-design housings with cleaning agents and pressure washers. However, we have long since realised that these essential cleaning procedures present no problems whatsoever!"

*"Where it used to take 20, 30 or 50 metres to reach from the control cabinet to the actuator or sensor, with this new optimised installation, sometimes all we need is just five metres."*

*Kai-Ulrich Seifer (Field Segment Manager .hygienic Food and Beverage, Bürkert Fluid Control Systems)*

# Decentralised automation solutions


Decentralised automation can have significant advantages regarding monitoring, flexibility and security, even with complex projects.

If local access to information and valves is required, decentralised automation offers many further benefits: The basis is formed by flexible process valve systems that make for lean automation processes and straightforward cabling and piping. This shortens planning phases and makes the system design more transparent, saving time and money in the installation phase and ensuring a fast start-up. Operation is efficient and economical thanks to the fact that switching intervals are short, with practically no delay times.

In addition, intelligent information exchange via direct messaging and status diagnostics, greater reliability thanks to a straightforward process monitoring architecture and easy troubleshooting all combined to create cogent arguments. LEDs ensure that switching statuses are clearly visible even from a distance. The components can also be cleaned easily and are suitable for thorough washdowns.

### Your benefits

- Reliable, clear process monitoring
- Hygienic design for optimal cleaning capacity
- Reduced energy costs
- Fast start-up
- Simple maintenance

# Control head Type 8681

**Universal control heads enable direct integration of automation in the field.**

The control head Type 8681 is optimised for decentralised automation of hygienic process valves.

- Universal adaptation: can be combined with all standard valves, ball valves, single and double seat valves
- Handles all pneumatic control, feedback and diagnostic functions all the way to bus communication
- Very easy to clean, proven IP protection and chemically-resistant materials for use in hygienic processing plants in the beverage, food and pharmaceutical industries
- Independent actuation: up to 3 pneumatic actuator chambers
- Separate setting of switching speeds for both movement directions
- Built-in check valve prevents switching errors in process valves due to back pressure
- Process valve switch positions are recorded by the inductive, analogue position sensor and fed back to the higher-level controller
- Teach-in function: Up to 3 switch points can be set at the push of a button or automatically determined by predefined autotune functions
- 4. The switch position can also be read in or confirmed by an external inductive proximity switch
- A coloured status LED indicates the respective switch position of the process valve or diagnostic functions such as maintenance required or error statuses
- Pilot valves are equipped with a mechanical manual override. If the device is closed, the patented magnetically encoded manual override allows the main actuator to be switched from outside.

## Control head Type 8681

- Universal actuator adaptation to hygienic process valves
- Contactless position sensor with 3 switching points (teach-in function)
- Coloured status LED
- Manual override on the closed housing
- Communication interface, AS-Interface, DeviceNet (option)

### Technical data

| | |
|---|---|
| **Materials** | |
| Body | PA, PPO, VA |
| Cover | PC |
| Seal | CR, EPDM |
| **Control medium** | neutral gases, air DIN ISO 8573-1 (recommended filter 5 µm) |
| Dust content | Class 7 (< 40 µm particle size) |
| Particle density | Class 7 (< 10 mg/m³) |
| Pressure dew point | Class 3 (<-20 °C) |
| Oil content | Class X (<25 mg/m³) |
| **Supply pressure** | 2.5 ... 8 bar |
| **Air flow rate solenoid valve**[1)] | 110 $l_N$/m in – for pressurisation and exhaust, lifting device |
| (supply and exhaust air per solenoid valve adjustable) | 110 $l_N$/m in – delivery condition |
| | 200 $l_N$/m in – - maximum typical flow rate |
| **Pilot air ports** | |
| Air inlet and exhaust air port | G 1/4 |
| Working ports | G 1/8 |
| **position sensor** | non-contact position sensor, 3 self-regulated switching points PNP (teach-in or autotune function)<br>Normally open contact (normally open), PNP output short circuit proof, with self-clocking short circuit protection |
| Output current | max. 100 mA per feedback signal |
| Stroke range | 0 to 80 mm |
| Resolution | ≤ 0.1 mm |
| Total error | ± 0.5 mm - if a target is used according to the dimensions drawing, material 1.4021 and a piston rod (Ø 22 mm, material 1.4301) (error refers to the repeatability of a taught position) |
| **Ambient temperature** | -10 to +55 °C<br>+5 to +55 °C (A T E X II 3 G E x nA IIC T 4 ; A T E X II 3 G E x tD A 22 T 135 °C ) |
| **Installation position** | any, preferably actuator face up |
| Degree of protection | IP 65/67 acc. to EN 60529 |
| Protection class | 3 (AS-Interface, 24 V DC, DeviceNet); 1 (120 V AC) acc. to DIN EN 61140 |
| Bus actuation | AS-Interface, DeviceNet |
| EC conformity | EMC2004/108/EC; ATEX 94/9/EC |
| Ignition protection | ATEX II 3G Ex nA IIC T4<br>ATEX II 3G Ex tD A22 T135 °C |

QNn value for a pressure drop from 7 to 6 bar absolute at 20°C

### without bus actuation; 24 V DC

| | |
|---|---|
| **Power supply** | 12 to 28 V DC |
| **Residual ripple at DC** | max. 10 % |
| **Power consumption** | < 5 W<br>(depending on variant and operating state, see operating instructions) |
| **Inputs for valve actuation (Y1 - Y3)** | |
| Signal level - active | U > 10 V, max. 24 V DC + 10 % |
| Signal level - inactive | U < 5 V |
| Impedance | U > 30 kOhm |
| **Outputs/binary feedback signals** | S1 out - S4 out |
| Design | Normally open contact (normally open), PNP output short circuit proof, with self-clocking short circuit protection |
| Switchable output current | max. 100 mA per feedback signal |
| Output voltage - active | ≥ (operating voltage - 2 V) |
| Output voltage - inactive | max. 1 V in the unloaded state |
| **Input/proximity switch (external proximity switch: S4 in)** | |
| Operating voltage | Voltage present at control head - 10 % |
| Current carrying capacity, sensor power supply | max. 90 mA short-circuit protection |
| Design | DC 2- and 3-conductor, NO or NC (factory setting NO), PNP output |
| Input current 1 signal | $I_{Sensor}$ > 6.5 m A, limited internally to 10 m A |
| Input voltage 1 signal | $U_{Sensor}$ > 10 V |
| Input current 0 signal | $I_{Sensor}$ < 4 m A |
| Input voltage 0 signal | $U_{Sensor}$ < 5 V |
| Electrical connection | |
| Multipole | M12 12-pin with cable 8 cm, 1 x M16 x 1.5 cable glands for external proximity switch (clamping range 3 ... 6 mm) |
| Cable gland | M16 x 1.5 (cable Ø 5 ... 10 mm, screw-type terminals 0.14 ... 1.5 mm2), 1 x M16 x 1.5 cable gland for external proximity switch (clamping range 3 ... 6 mm) |

### without bus actuation; 120 V AC

| | |
|---|---|
| **Power supply** | 110 to 130 V AC/50/60 Hz |
| **Current consumption (standby current)** | 10 mA at 120 V AC |
| **Inputs for valve actuation (Y1 - Y3)** | |
| Signal level - active | U > 60 V AC |
| Signal level - inactive | U < 20 V AC |
| Impedance | > 40 kOhm |
| **Outputs/binary feedback signals** | S1 out - S3 out |
| Design | Normally open contact (normally open), , L switching, short-circuit protection via automatically resetting fuse |
| Switchable output current | max. 50 mA per feedback signal |
| Output voltage - active | ≥ (operating voltage - 2 V) |
| Output voltage - inactive | max. 1 V in the unloaded state |
| **Input/proximity switch (external proximity switch: S4 in)** | |
| Operating voltage | Voltage present at control head - $U_{Nominal}$ = 120 V AC, 50/60 Hz |
| Current carrying capacity, sensor power supply | max. 0.7 A |
| Design | DC 2- and 3-conductor, NO contact, L switching |
| Input current 1 signal | $I_{Sensor}$ < 2 m A |
| Electrical connection | |
| Cable gland | M16 x 1.5 (cable Ø 5 ... 10 mm, screw-type terminals 0.14 ... 1.5 $mm^2$), |
| | 1 x M16 x 1.5 cable gland for external proximity switch (clamping range 3 ... 6 mm) |

## With bus actuation; AS-Interface

| | |
|---|---|
| **Profile** | S-7.A.E (A/B slave max . 62 slaves/master)<br>S-7.F.F (max . 31 slaves/master) |
| **Power supply** | |
| via bus line | as per specification |
| separate from bus signal | reversible (jumper) |
| **Current consumption of devices without external power supply** | |
| Max. Current consumption | 240 mA (incl. external proximity switch with 90 mA) |
| Current consumption in normal operation | ≤ 150 mA |
| (acc. to current reduction; valve +1 end position achieved) | 3 valves enabled, 1 position confirmed with LED display, no external proximity switch |
| **Current consumption of devices with external power supply** | |
| The power supply unit must include a secure disconnect in accordance with IEC 364-4-41. It must conform to the SELV standard. The ground potential may not have an earth connection. | 19.2 V DC to 31.6 V DC<br>≤ 110 mA 24 V DC<br>≤ 150 mA type. |
| Output (from master perspective)/solenoid valves | |
| Max. switching capacity | 0.9 W (per solenoid valve) |
| Typ. continuous output | 0.6 W (per solenoid valve) |
| Watch-dog function | integrated |
| Inrush current | 30 mA or 0.9 W/200 ms (at 30.5 AS-Interface voltage) |
| Hold current | 20 mA or 0.6 W/200 ms (at 30.5 AS-Interface voltage) |
| Operating mode | Continuous operation (100 % operation) |
| Valve type | 6524 |
| **Input/proximity switch (external proximity switch: S4 in)** | |
| Operating voltage | AS-Interface voltage present at control head - 10 % |
| Current carrying capacity, sensor power supply | max. 30 mA short-circuit protection |
| Design | DC 2- and 3-conductor, NO or NC (factory setting NO), PNP output |
| Input current 1 signal | $I_{Sensor}$ > 6.5 m A, limited internally to 10 m A |
| Input voltage 1 signal | $U_{Sensor}$ > 10 V |
| Input current 0 signal | $I_{Sensor}$ < 4 m A |
| Input voltage 0 signal | $U_{Sensor}$ < 5 V |
| Electrical connection<br>(Standard: AS-Interface flat cable clip, 80 cm) | M12 4-pin at cable 8 cm (acc. 0.3 m cable length acc. to AS-Interface specification)<br>1 x M16 x 1.5 cable gland for external proximity switch (clamping range 3 ... 6 mm)<br>M12 4-pin at cable 80 cm (acc. 1,0 m cable length acc. to AS-Interface specification)<br>1 x M16 x 1.5 cable gland for external proximity switch (clamping range 3 ... 6 mm) |

### With bus actuation: DeviceNet

| | |
|---|---|
| **Power supply** | 11 to 24 V DC (acc. to specification) |
| **Max. Current consumption** | 200 mA at 24 V DC |
| **Input/proximity switch (external proximity switch: S4 in)** | |
| Operating voltage | via DeviceNet power supply - 10 % |
| Current carrying capacity, sensor power supply | max. 30 mA |
| Design | DC 2- and 3-conductor, NO contact, PNP output |
| Input current 1 signal | $I_{Sensor}$ > 6.5 m A, limited internally to 10 m A |
| Input voltage 1 signal | $U_{Sensor}$ > 10 V |
| Input current 0 signal | $I_{Sensor}$ < 4 m A |
| Input voltage 0 signal | $U_{Sensor}$ < 5 V |
| **Output (from master perspective)/solenoid valves** | |
| Max. switching capacity | 1.0 W |
| Typ. continuous output | 0.6 W |
| Power reduction | via DeviceNet – electronically integrated |
| Inrush current | 120 mA typ. at 24 V DC (3 valves) |
| Hold current | 100 mA typ. at 24 V DC (3 valves) |
| Operating mode | Continuous operation (100 % operation) |
| Valve type | 6524 |
| Electrical connection | |
| Multipole | M12, 5-pin on cable 80 cm, 1 x M16 x 1.5 cable gland for external proximity switch (clamping range 3 ... 6 mm.) |

### Bit configuration table

| **Databit** | **D3** | **D2** | **D1** | **D0** |
|---|---|---|---|---|
| Input | External proximity switch S4 | Position 3 | Position 2 | Position 1 |
| Output | not used | Solenoid valve 3 | Solenoid valve 2 | Solenoid valve 1 |
| **Parameter bit** | **D3** | **D2** | **D1** | **D0** |
| Output | not used | not used | not used | not used |

### Programming data table

| **Databit** | **Programming data with 62 slaves AS-Interface - device for A/B slave addressing (standard device)** | **Programming data with 31 slaves AS-Interface (optional)** |
|---|---|---|
| I/O - configuration | 7 hex (4 inputs/4 outputs) | 7 hex (4 inputs/4 outputs) |
| | see bit configuration table | see bit configuration table |
| ID-Code | A hex | F hex |
| Extended ID code 1 | 7 hex | (F hex) |
| Extended ID code 2 | E hex | (F hex) |
| Profile | S-7.A.E | S-7.F.F |

## Order table

| Communi-cation | Power supply | Connection | ATEX Zone 2/22 cat. 3 | Number of solenoid valves | Position feed-back sensor | Order no. |
|---|---|---|---|---|---|---|
| none | 12 ... 28 VDC | Cable gland | none | 0 | 3 int. + 1 ext. | **196 410** |
| | | | none | 1 | 3 int. + 1 ext. | **196 411** |
| | | | none | 2 | 3 int. + 1 ext. | **196 412** |
| | | | none | 3 | 3 int. + 1 ext. | **196 413** |
| | | | screw to | 1 | 3 int. + 1 ext. | **196 415** |
| | 12 ... 28 VDC | M12, 12-pin, cable 8 cm | none | 0 | 3 int. + 1 ext. | **196 420** |
| | | | none | 1 | 3 int. + 1 ext. | **196 421** |
| | | | none | 2 | 3 int. + 1 ext. | **196 422** |
| | | | none | 3 | 3 int. + 1 ext. | **196 423** |
| | | | screw to | 1 | 3 int. + 1 ext. | **196 425** |
| | 120 V AC | Cable gland | none | 0 | 3 int. + 1 ext. | **196 470** |
| | | | none | 1 | 3 int. + 1 ext. | **196 471** |
| | | | none | 2 | 3 int. + 1 ext. | **196 472** |
| | | | none | 3 | 3 int. + 1 ext. | **196 473** |
| | | | screw to | 1 | 3 int. + 1 ext. | **196 475** |
| AS-Interface (62 slaves) | 29.5 ... 31.6 V DC | Variant with ASI flat cable terminal and 80 cm cable | none | 0 | 3 int. + 1 ext. | **196 430** |
| | | | none | 1 | 3 int. + 1 ext. | **196 431** |
| | | | none | 2 | 3 int. + 1 ext. | **196 432** |
| | | | none | 3 | 3 int. + 1 ext. | **196 433** |
| | | | screw to | 1 | 3 int. + 1 ext. | **196 435** |
| DeviceNet | via bus | M 12, 5-pin, cable 80 cm | none | 0 | 3 int. + 1 ext. | **196 450** |
| | | | none | 1 | 3 int. + 1 ext. | **196 451** |
| | | | none | 2 | 3 int. + 1 ext. | **196 452** |
| | | | none | 3 | 3 int. + 1 ext. | **196 453** |
| | | | screw to | 1 | 3 int. + 1 ext. | **196 455** |

## Order table accessories

| Variant | Order no. |
|---|---|
| Silencer PE G 1/4 (spare part) | **780 780** |
| Dummy plug PP G 1/8 (spare part) | **770 901** |
| Rotary elbows male brass nickel-plated G 1/4 for Ø hose 8/6 | **780 084** |
| Rotary elbows male brass nickel-plated G 1/8 for Ø hose 6/4 | **780 082** |
| Universal adapter flange with O-ring | **196 495** |
| Target for position sensor, 1.4021 | **196 494** |
| Magnetic hand tool actuation | **196 490** |
| Cable 8 cm with connector M12 12-pin for 24 V DC (spare part) | **217 574** |
| Cable 80 cm with connector M12 4-pin for ASi (spare part) | **217 572** |
| Cable 8 cm with connector M12 4-pin for ASi (spare part) | **217 573** |
| ASI flat cable terminal with M12 stainless steel bushing | **799 646** |
| Cable 80 cm with connector M12 5-pin for DeviceNet (spare part) | **218 187** |
| USB adapter set for PC communication | **227 093** |
| Set with 20 pcs. lead seals to prevent opening of the cover without tools (spare part) | **257 100** |

# Adaptation for control head for hygienic process valves



## Order table adaptations

| **Bürkert adapter suitable for Alfa Laval valves** | **Alfa Laval Type Bürkert Type** | LKLA Ø 87 mm for LKB | LKLA Ø 156 mm for LKB | Unique Mixproof | Unique SSV Ø 85 mm Ø 115 mm Ø 156 mm | SRC Ø 87 mm | Unique 7000 |
|---|---|---|---|---|---|---|---|
| Order no. | Type 8681* | **251 806** | **251 806** | **251 806** | **251 806** | **251 806** | **251 806** |

| **Bürkert adapter suitable for GEA Tuchenhagen valves** | **GEA Type** Bürkert Type** | T-Smart 8000 | T-Smart 7 T-Smart 9 | EcoVent | Varivent AA - EH5 | Varivent DF6 - SN6 | Varivent Z ZBB - ZEH |
|---|---|---|---|---|---|---|---|
| Order no. | Type 8681* | **230 967** | **279 454** | **230 973** | **230 973** | **230 973** | **230 973** |

| **Bürkert adapter suitable for GEA Tuchenhagen valves** | **GEA Type** Bürkert Type** | Varivent Z ZEK6Z - SN6Z | Varivent Mixproof | SCAMI |
|---|---|---|---|---|
| Order no. | Type 8681* | **230 973** | **230 973** | **228 711** |

| **Bürkert adapter suitable for Definox valves** | **Definox Series Bürkert Type** | DPAX | DCX3 DCX4 |
|---|---|---|---|
| Order no. | Type 8681* | **682 517** | **230 970** |

| **Bürkert adapter suitable for Aseptomag stroke actuators** | **Aseptomag Bürkert Type** | PA Ø 80/100 mm |
|---|---|---|
| Order no. | Type 8681* | **230 985** |

| **Bürkert adapter suitable for APV/SPX valves** | **APV SPX Type Bürkert Type** | SV1/SV1F | SW4 |
|---|---|---|---|
| Order no. | Type 8681* | **230 992** | **230 966** |

| **Bürkert adapter suitable for Bardiani valves** | **Bardiani valves Bürkert Type** | BBZPM Stainless steel | Mach 83/98 Stainless steel | ZAW Stainless steel | ZD90 Stainless steel |
|---|---|---|---|---|---|
| Order no. | Type 8681* | **683 478** | **On request** | **On request** | **246 082** |

| **Bürkert adapter suitable for Tyco Hovap valves** | **Tyco Hovap Bürkert Type** | BASICFLOW SERIES 9600-9630 | VARIFLOW |
|---|---|---|---|
| Order no. | Type 8681* | **230 982** | **230 983** |

| **Bürkert adapter suitable for Kieselmann valves** | **Kieselmann Bürkert Type** | Pn. actuator PA Ø 160 |
|---|---|---|
| Order no. | Type 8681* | **245 852** |

* For Type 8681 - pilot air duct: external piping

** Can only be used in conjunction with GEA Tuchenhagen valves in CF A, CF B subject to prior testing or on request

# EDIP - The flexible solution for efficient processes

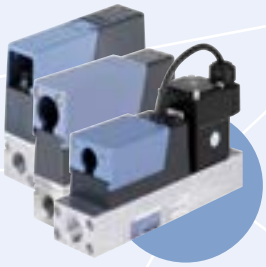
The digital revolution has brought about a high degree of process automation in production processes. Now Industry 4.0 is here with the second digitalization phase in which machines, sensors, actuators and people are networked with each other and can exchange information with each other. With EDIP – the Efficient Device Integration Platform – Bürkert opens up the world of intelligent networking for its products in this age of digitalization.

EDIP is the new device platform that unifies the operation, communication and interfaces of the process devices. The platform consists of the three components communication, software and hardware.

All future Bürkert field devices will be based on EDIP. The platform already offers numerous modules that simplify intelligent networking.

*Online Analysis System: Modular system with 7“ touch screen for monitoring all important potable water parameters at a glance.*

*FLOWave: Innovative flow meters without sensor elements in the measuring tube for hygienic applications.*



*Mass flow controllers/ meters for lean and precise gas control.*

*2-way motorised proportional valve.*

*Electromotive process control valve for use in plants without compressed air.*

*Fieldbus gateway: A multi-protocol module for integrating Bürkert field devices in industrial communication standards.*

*AirLINE: Valve island for reliable control of process technology.*

*ELEMENT control heads and position controllers.*

## Your benefits at a glance

- Standardised operating and display concept
- Simple and quick start-up
- Access to detailed device diagnosis via the digital interface
- If service is required, quick and simple parameter transfer by exchanging storage medium
- Add new measurement functions quickly and reliably
- Comprehensive options for connection to higher-level controllers
- Simple programming of new functions via graphical interface of the “Bürkert Communicator“ software tool

# Sample configuration
# Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 390 mm
4 multiple cable glands

Valve island Type 8652 AirLINE Quick
Installation width 390 mm
4 multiple cable glands
Power supply unit

# Sample configuration Type 8614/8652



Valve island Type 8652 AirLINE Quick
Installation width 390 mm
4 multiple cable glands
Power supply unit
I/O system by Siemens

Valve island Type 8652 AirLINE Quick
Installation width 390 mm
Filter regulator

# Sample configuration Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 390 mm
Power supply unit
Filter regulator

Valve island Type 8652 AirLINE Quick
Installation width 390 mm
Power supply unit
Filter regulator
Pressure switch

# Sample configuration
# Type 8614/8652



Valve island Type 8652 AirLINE Quick
Installation width 510 mm
8 multiple cable glands

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Power supply unit

# Sample configuration Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Power supply unit
I/O system by Siemens

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Filter regulator

# Sample configuration Type 8614/8652



Valve island Type 8652 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens

# Sample configuration Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens
Pressure switch

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Wago

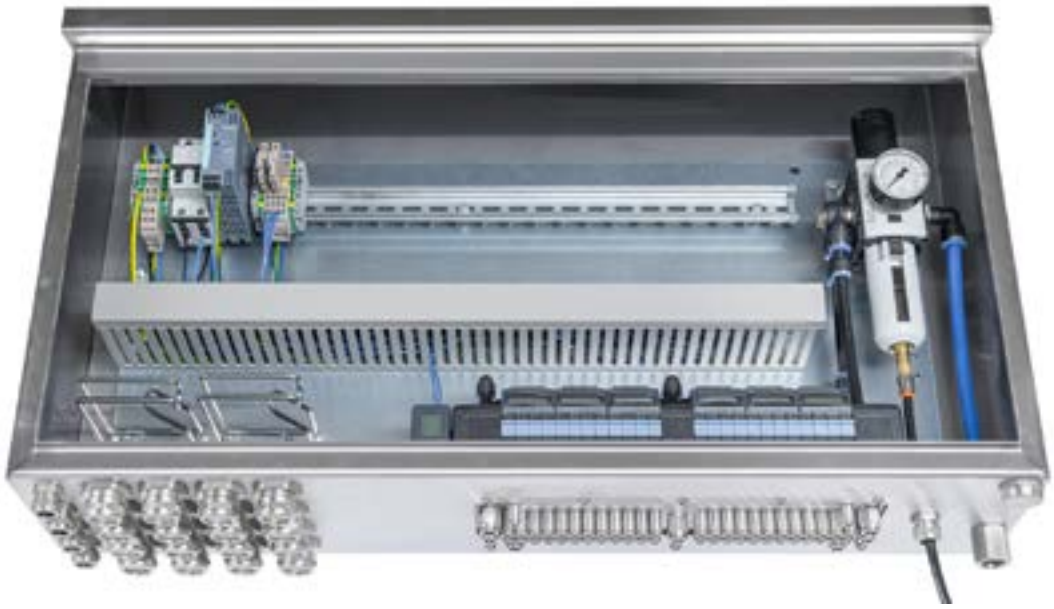
# Sample configuration Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Wago
Pressure switch

# Sample configuration
# Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
Filter regulator

Valve island Type 8652 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
Power supply unit
Filter regulator



# Sample configuration
# Type 8614/8652

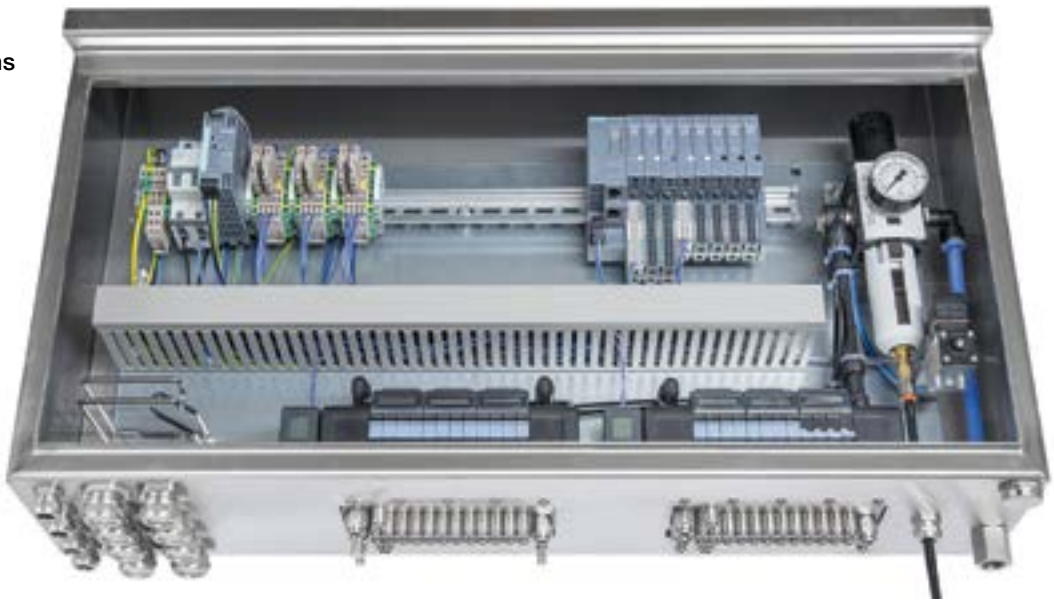


Valve island Type 8652 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens

Valve island Type 8652 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens
Pressure switch

# Sample configuration
# Type 8614/8652

Valve island Type 8652 AirLINE Quick
Installation width 810 mm
8 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens
Pressure switch



Valve island Type 8652 AirLINE Quick
Installation width 810 mm
8 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens
Pressure switch

# Sample configuration Type 8614/8640

Valve island Type 8640 AirLINE Quick
Installation width 390 mm

Valve island Type 8640 AirLINE Quick
Installation width 390 mm
8 multiple cable glands

# Sample configuration Type 8614/8640



Valve island Type 8640 AirLINE Quick
Installation width 390 mm
8 multiple cable glands
Direct digital inputs

Valve island Type 8640 AirLINE Quick
Installation width 390 mm
8 multiple cable glands
Direct digital inputs
Power supply unit

# Sample configuration Type 8614/8640

Valve island Type 8640 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Direct digital inputs
Filter regulator

Valve island Type 8640 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Direct digital inputs
Power supply unit
Filter regulator

# Sample configuration
# Type 8614/8640



Valve island Type 8640 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Direct digital inputs
Power supply unit
Filter regulator
Pressure switch

Valve island Type 8640 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Direct digital inputs
Filter regulator
I/O system by Siemens

# Sample configuration Type 8614/8640

Valve island Type 8640 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens

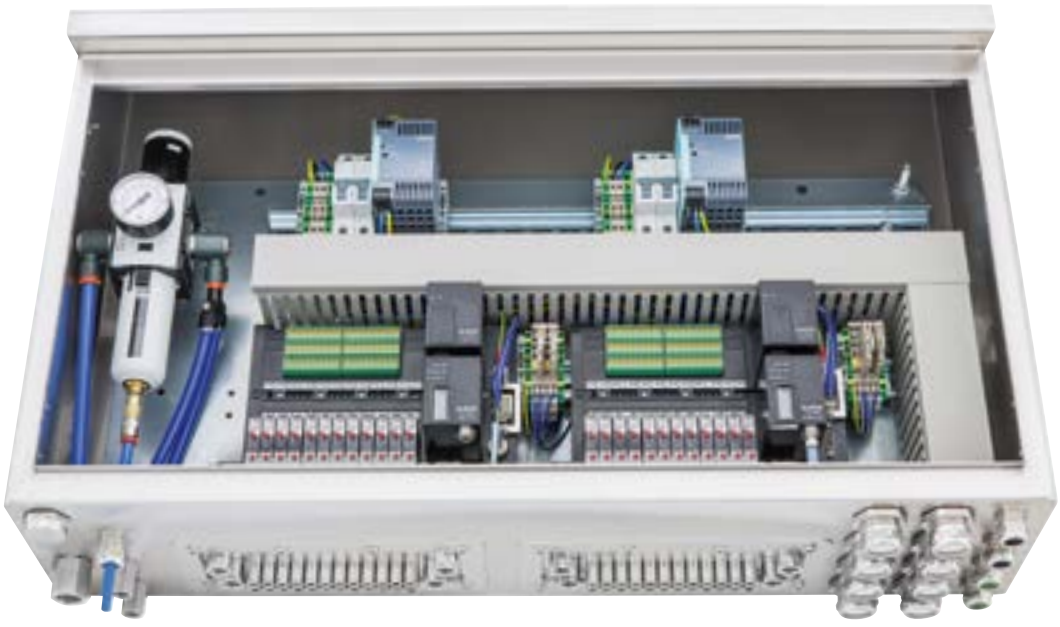
Valve island Type 8640 AirLINE Quick
Installation width 510 mm
8 multiple cable glands
Power supply unit
Filter regulator
Pressure switch
I/O system by Siemens

# Sample configuration
# Type 8614/8640



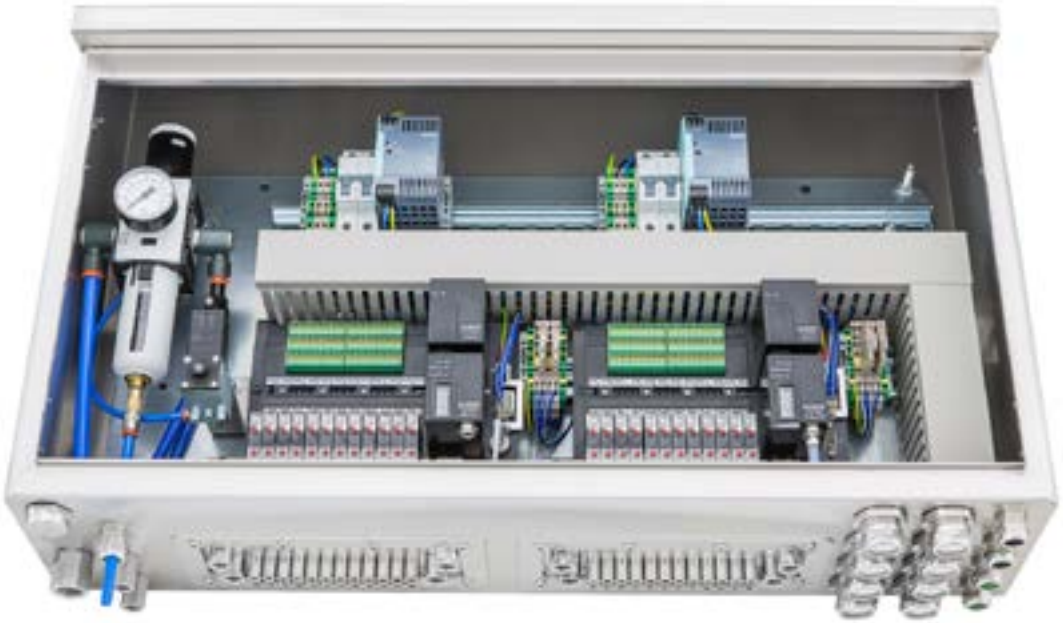
Valve island AirLINE Quick Type 8640
Installation width 810 mm
8 multiple cable glands
Direct digital inputs
Filter regulator

Valve island Type 8640 AirLINE Quick
Installation width 810 mm
8 multiple cable glands
Direct digital inputs
Power supply units
Filter regulator



# Sample configuration
# Type 8614/8640

Valve island Type 8640 AirLINE Quick
Installation width 810 mm
8 multiple cable glands
Direct digital inputs
Power supply units
Filter regulator
Pressure switch



Valve island AirLINE Quick Type 8640
Installation width 810 mm
16 multiple cable glands

# Sample configuration
# Type 8614/8640



Valve island Type 8640 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
I/O system by Siemens

Valve island Type 8640 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
Power supply units
I/O system by Siemens

# Sample configuration Type 8614/8647

Valve island AirLINE SP Type 8647
Installation width 390 mm
4 multiple cable glands

Valve island AirLINE SP Type 8647
Installation width 390 mm
4 multiple cable glands
Power supply unit

# Sample configuration Type 8614/8647



Valve island AirLINE SP Type 8647
Installation width 390 mm
4 multiple cable glands
Power supply unit
I/O system by Siemens

Valve island AirLINE SP Type 8647
Installation width 510 mm
4 multiple cable glands
Filter regulator

# Sample configuration Type 8614/8647

Valve island AirLINE SP Type 8647
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator

Valve island AirLINE SP Type 8647
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens

# Sample configuration
# Type 8614/8647



Valve island AirLINE SP Type 8647
Installation width 810 mm
16 multiple cable glands
Filter regulator

Valve island AirLINE SP Type 8647
Installation width 810 mm
16 multiple cable glands
Power supply unit
Filter regulator

# Sample configuration
# Type 8614/8647

Valve island AirLINE SP Type 8647
Installation width 810 mm
16 multiple cable glands
Power supply unit
Filter regulator
I/O system by Siemens

# Sample configuration Type 8614/8644

Valve island Type 8644 AirLINE Quick
Installation width 390 mm
4 multiple cable glands

Valve island Type 8644 AirLINE Quick
Installation width 390 mm
4 multiple cable glands
I/O system by Siemens

# Sample configuration Type 8614/8644



Valve island Type 8644 AirLINE  Quick
Installation width 390 mm
4 multiple cable glands
Power supply unit
I/O system by Siemens

Valve island Type 8644 AirLINE Quick
Installation width 390 mm
4 multiple cable glands
Power supply unit
I/O system by Siemens
Pressure switch (in the right-hand pressure gauge port)

# Sample configuration
# Type 8614/8644

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands
I/O system by Wago

# Sample configuration
# Type 8614/8644



Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands
Power supply unit
I/O system by Wago

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands
Power supply unit
I/O system by Wago
Pressure switch
(in the right-hand pressure gauge port)

# Sample configuration
# Type 8614/8644

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands
I/O system by Rockwell (on request)

# Sample configuration Type 8614/8644



Valve island Type 8644 AirLINE Quick
Installation width 510 mm
12 multiple cable glands
Power supply unit
I/O system by Rockwell (on request)
Pressure switch
(in the right-hand pressure gauge port)

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Filter regulator

# Sample configuration Type 8614/8644

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Filter regulator
I/O system by Rockwell (on request)

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Rockwell (on request)

# Sample configuration
# Type 8614/8644

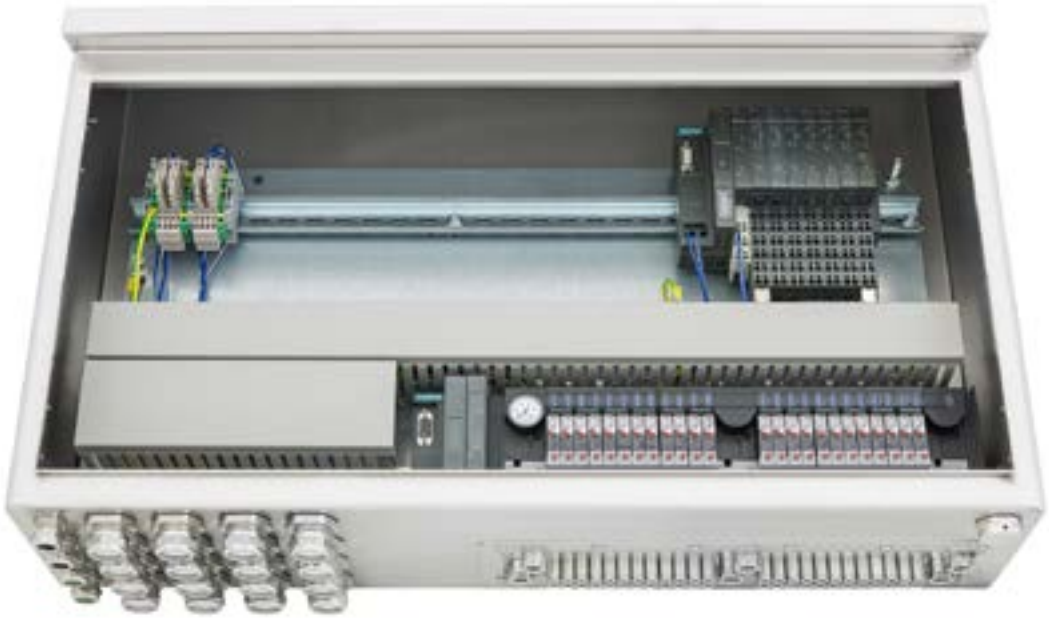


Valve island Type 8644 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Power supply unit
Filter regulator
I/O system by Rockwell (on request)
Pressure switch
(in the right-hand pressure gauge port)

Valve island Type 8644 AirLINE Quick
Installation width 510 mm
4 multiple cable glands
Filter regulator
I/O system by Siemens

# Sample configuration
# Type 8614/8644

Valve island Type 8644 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
I/O system by Siemens



Valve island Type 8644 AirLINE Quick
Installation width 810 mm
16 multiple cable glands
Power supply units
I/O system by Siemens

# You can download all certificates free of charge from our website:



## Management certificates:

Certificates for the areas of quality, environmental as well as occupational health and safety management

https://www.burkert.com/en/Service-Support/Company-certificates/Management-system-certificates

## Factory certificates:

Certificates relating to topics such as the Pressure Equipment Directive, EC design inspection documents, ATEX certificates and IECx certificates

https://www.burkert.com/en/Service-Support/Company-certificates/Factory-Certificates