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FLUID CONTROL SYSTEMS

AirLINE SP – electropneumatic automation system

- Direct connection to the I/O systems SIMATIC ET 200SP and SIMATIC ET 200SP HA
- Integration in Siemens PCS7 possible
- Siemens Product Partner for SIMATIC Automation Systems
- Easy diagnostics by LC display
- Safety-related shut-off of valves possible

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

Can be combined with

Type 2012
Pneumatically operated 2/2-way globe valve CLASSIC

Type 8692
Digital electropneumatic positioner for integrated mounting on process control valves

Type 6524
3/2-way or 2 × 3/2-way solenoid valve for pneumatic applications

Type 6525
5/2-way solenoid valve for pneumatic applications

Type 8614
Pneumatic control cabinet solutions for hygienic process environments

Type description

The pneumatic valve island Type 8647 AirLINE SP is a modular, electropneumatic automation system consisting of connection and valve modules. It has been especially developed for safe and complete integration into the decentralised peripheral system “SIMATIC ET 200SP” and “SIMATIC ET 200SP HA" from Siemens. Pneumatically operated process valves, pneumatic cylinders or other pneumatic components can be connected to the pneumatic outputs. If the pneumatic components are installed with position feedbacks, the position of the actuated pneumatic components can be displayed on the associated pilot valve. This can save time on start-up and maintenance.

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1. General technical data

1.1. General data

Note:
The general technical data refer to the pilot valves Type 0460, 6524 and 6525. Further information can be found in chapter:

- Type 6524, 6525 "1.2. Solenoid valves Type 6524 and Type 6525" on page 5
- Type 0460 "1.3. Solenoid valves Type 0460" on page 6

Product properties	Type 0460, Type 6524, Type 6525
Dimensions	Further information can be found in chapter "6. Dimensions" on page 12.
Material	
Body	PA (polyamide), PC (polycarbonate) (valves: PA (polyamide), PPS (polyphenylene sulfide) or aluminum)
Seal	NBR (valves: FPM, NBR and PUR)
Maximum installation width of a valve island	Further information can be found in chapter "6. Dimensions" on page 12.
Width per station	11 mm
Manual override	Standard
Number of valve slots	For single valves: max. 64 For impulse and double valves: max. 32
Maximum number of valve functions	64 on one valve block, several valve blocks possible on one station
Switching function/Circuit function [1.)]	Further information can be found in chapter "3. Circuit functions" on page 10.
Pneumatic Intermediate feed	Necessary after 24 valve functions For 2 × 3/2-way valve: necessary after 16 valve functions
Performance data	
Pressure data	Overpressure to atmospheric pressure
Pressure range	Vac....10 bar (with UL approval Vac....8 bar)
External supply air (auxiliary pilot air)	> 2.5 bar (Type 0460: not possible)
Flow rate Q_{Nn} value air	200...300 l/min [2.)] measured at + 20 °C, 6 bar pressure at valve inlet and 1 bar differential pressure
Flow rate Q_{Nn} value air with integrated P shut-off	Flow reduced by approx. 20 %
Nominal operating mode	Continuous operation (100 % duty cycle)
Switching time	Measured according to ISO 12238
Electrical data	
Operating voltage	24 V DC
Voltage tolerance	± 10 %
Residual ripple (at DC)	2.4 Vss
Nominal power of each valve	For single valves: 0.8 W For impulse and double valves: 2× 0.8 W with power reduction
Nominal current of each valve	40 mA (28 mA holding current after 120 ms), 20 mA (when using Type 0460)
Digital input	Via cooperation partners
Protection class	III according to DIN EN 61140, VDE 0140
Total current	
With fieldbus connection	Further information can be found in the **operating instructions Type 8647** ▶.
Safety-related shut-off	Shut-off of individual valve via second connection Module-based shut-off (EVS function) Block-based shut-off (valve island) via Siemens F-PMe module
Medium data	
Operating medium	Oil-free or lubricated compressed dry air (5 µm filter recommended)
Compressed air quality	ISO 8573 - 1: 2010, Class 7.4.4
Approvals and conformities	
Degree of protection	IP20, IP65 in closed control cabinets
Explosion protection	Further information can be found in chapter "4.4. Explosion protection" on page 11
North America (USA/Canada)	Further information can be found in chapter "4.5. North America (USA/Canada)" on page 11

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Product connections	
Working port	D 6, D ¼, ALQ
Air supply connection	G ¼, D ⅜
Communication module	Siemens SIMATIC ET 200SP / SP HA
Communication interface	PROFIBUS DP, PROFINET IO
Environment and installation	
Installation position	As required, preferably with actuator upright
Storage temperature	- 20 °C...+ 60 °C
Ambient temperature	0 °C...+ 55 °C (for valve Type 0460: 0 °C...+ 50 °C)

1.) The maximum flow rate depends on the valve function.
2.) With ET 200SP HA, only one valve block is possible. Further details on maximum station configuration can be found in the **operating instructions Type 8647** ▸.

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1.2. Solenoid valves Type 6524 and Type 6525

- The pilot valve **Type 6524** ▶ (single and double valve) and **Type 6525** ▶ (single valve) consist of a pilot flipper solenoid valve Type 6144 and a pneumatic seat valve.
- The circuit function allows switching of high pressures with low power consumption and short switching times.
- The pilot valves are equipped with a manual override as standard.
- The pneumatic flange pattern of the pilot valves Type 6524 and 6525 (single valves) for Type 8647 REV2 has been standardised. There is a difference to the flange pattern of the pilot valves for Type 8647 REV1. It is therefore imperative to take into account the different article numbers of the pilot valves as described in chapter **"8.3. Ordering chart replacement valves" on page 14**.
- Further information about ordering information can be found in chapter **"8.3. Ordering chart replacement valves" on page 14**
- Further information about further valve options can be found in chapter **"8.4. Ordering chart accessories" on page 17**.

Pilot valve Type	**Type 6524, Type 6525**	**Type 6524**
Circuit function	**3/2 and 5/2-way valve**	**2 × 3/2-way valve**
Product properties		
Material		
Body	PA (polyamide)	
Seal	FKM, NBR and PUR	
Width per station	11 mm	
Manual override	Standard	
Pneumatic module	With plug-in coupling, Ø 6 mm, Ø ¼"	
Performance data		
Pressure data	Overpressure to atmospheric pressure	
Flow rate Q_{Nn} value air	300 l/min measured at + 20 °C, 6 bar pressure at valve inlet and 1 bar differential pressure, see **"8.3. Ordering chart replacement valves" on page 14**.	
Duty cycle	Continuous operation (100 % duty cycle)	
Switching time	Measured according to ISO 12238	
Electrical data		
Operating voltage	24 V DC (10 % residual ripple permissible)	
Nominal power of each valve	0.8 W	2 × 0.8 W with reduction of power
Medium data		
Operating medium	Oil-free or lubricated compressed dry air, neutral gases (5 µm filter recommended)	
Product connections		
Service port 2 (A), 4 (B)	Plug-in coupling Ø 6 mm, Ø ¼"	
Air supply connection 1 (P), 3 (R), 5 (S)	G ¼	
Electrical connection on valve	Rectangular plug, 2-pin, grid 5.08 mm Cable with strands [1.)]	Rectangular plug, 3-pin, grid 2.54 mm Cable with strands [1.)]
Environment and installation		
Installation position	As required, preferably with actuator upright	
Mounting condition	With 2 screws M2 × 20	With 2 screws M2 × 28

1.) Variants with safety-related shutdown.

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1.3. Solenoid valves Type 0460

- The solenoid valve **Type 0460** ▶ consists of a pneumatic valve body fitted with a double coil pilot valve.
- The principle allows switching of high pressures together with low power consumption and fast switching times.
- All valves are equipped with manual override as a standard.
- Further information about ordering information can be found in chapter **"Solenoid valves Type 0460" on page 15**.
- Further information about further valve options can be found in chapte **"8.4. Ordering chart accessories" on page 17**

Pilot valve Type	**Type 0460**
Circuit function	**5/2-way and 5/3-way bistable**
Product properties	
Material	
Body	Aluminium
Seal	NBR
Width per station	11 mm
Manual override	Standard
Pneumatic module	With plug-in coupling, Ø 6 mm, Ø ¼"
Performance data	
Pressure data	Overpressure to atmospheric pressure
Flow rate Q_{Nn} value air	200 l/min measured at + 20 °C, 6 bar pressure at valve inlet and 1 bar differential pressure, see **"8.3. Ordering chart replacement valves" on page 14**.
Switching time	Measured according to ISO 12238
Electrical data	
Operating voltage	24 V DC ± 10 %
Medium data	
Operating medium	Oil-free or lubricated compressed dry air, neutral gases (5 µm filter recommended)
Product connections	
Service port 2 (A), 4 (B)	Plug-in coupling Ø 6 mm, Ø ¼"
Air supply connection 1 (P), 3 (R), 5 (S)	G ¼
Electrical connection on valve	Rectangular plug, 3-pin, grid 2.54 mm
Environment and installation	
Installation position	As required, preferably with actuator upright
Mounting condition	With 2 screws M1.7 × 23

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1.4. AirLINE Quick

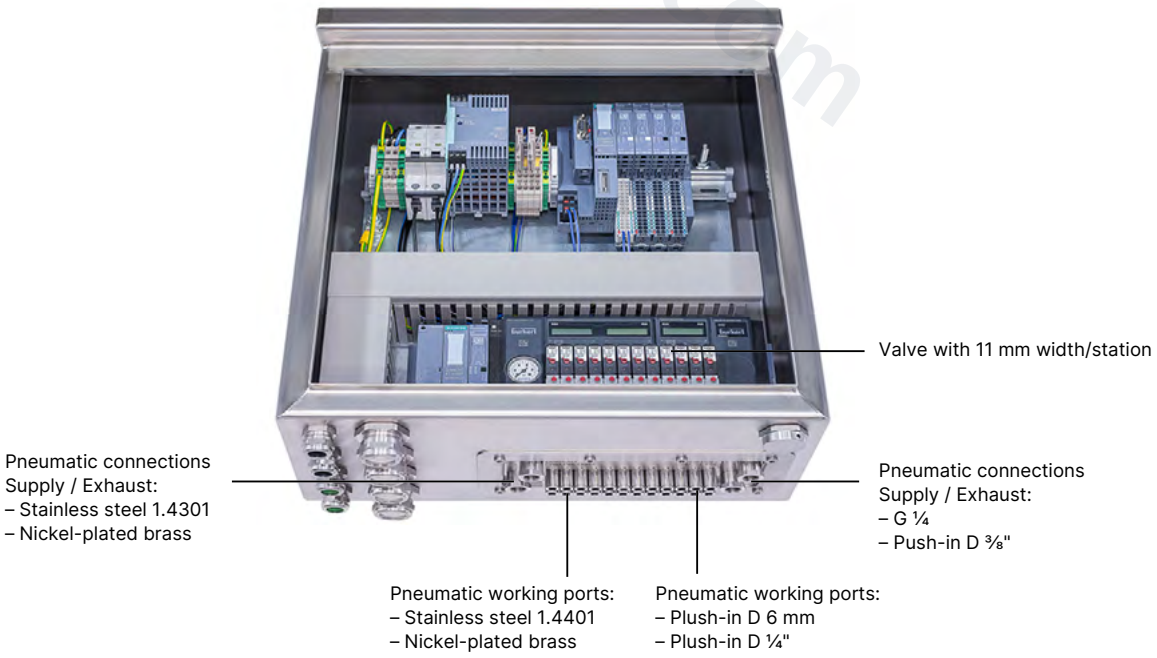
Note:
The valves of Type 0460 valves cannot be installed with AirLINE Quick due to their size.

AirLINE Quick considerably reduces the use of components in the control cabinet. With the AirLINE Quick Adapter, the valve terminal is adapted directly to the control cabinet floor or control cabinet wall.

Advantages:
- Reduced space requirement in the control cabinet
- This makes it possible to use more compact control cabinets
- Reduced installation effort due to hose connections directly at the bottom of the control cabinet

Product properties	
Material	
AirLINE Quick Adapter Plate	Stainless steel 1.4301 Anodised aluminium
Pneumatic Supply / Exhaust	Stainless steel 1.4301 Nickel-plated brass
Pneumatic working ports	Stainless steel 1.4401 Nickel-plated brass
Valve slots	4, 8, 12, 16, 24
Valve functions	Up to 48
Product connections	
Pneumatic Supply / Exhaust	G ¼", Push-in D ⅜"
Pneumatic working ports	Push-in D 6 mm, ¼"
Environment and installation	
Installation position	Control cabinet wall Control cabinet floor

AirLINE Quick Adapter in stainless steel 1.4301 or anodised aluminium



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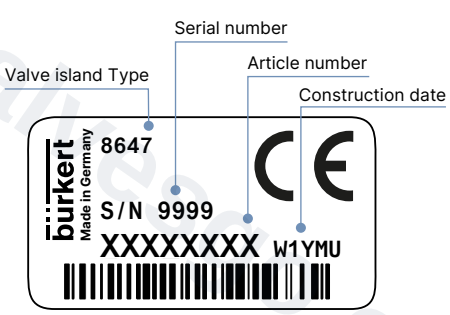
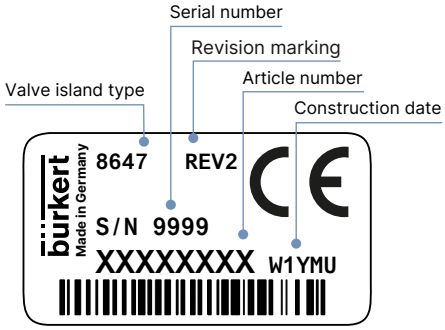
2. Product variants

2.1. Notes on compatibility and revision levels

The single valves Type 6524 and Type 6525, the pneumatic basic and connection modules and as well as the control cabinet base adaptation AirLINE Quick have been optimised.

2.2. Distinguishing features

Valve island

Revision island	Type 8647 REV1 [1.)]	Type 8647 REV2 [1.)]
Visual distinction		
Marking on type label		

1.) If you have any questions regarding the differences in revisions, please contact your Bürkert sales department.

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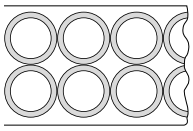
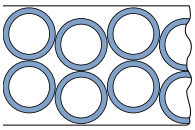
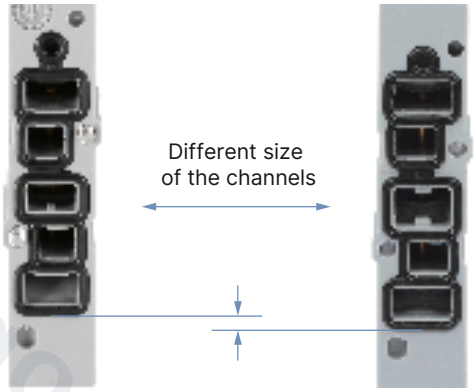
Module

Revision island	Type 8640 REV1 [1.)]	Type 8640 REV2 [1.)]
Channel arrangement of the working connections	Parallel 	Wavy 
Colour of the release rings (hose connector)	Black	Blue
Flow reduction with integrated P shut-off	Up to 50 %	Up to 20 %

1.) If you have any questions regarding the differences in revisions, please contact your Bürkert sales department.

Valves

Valves Type 6524, Type 6525	Valve REV1	Valve REV2
Visual distinction		
	REV1 Single valves Type 6524 and Type 6525 with flange interface FM14	**REV2** Single valves Type 6524 and Type 6525 with flange interface FM20
Article no.	Distinction by Article no., see "8.3. Ordering chart replacement valves" on page 14	
Information label	There is a information label on the valve which indicates that the valve has been overhauled. This information label must be removed before assembly.	

Further information can be found in the **operating instructions Type 8647** ▶.

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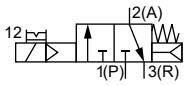
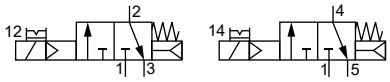
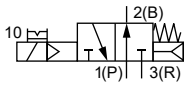
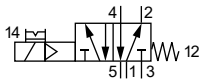
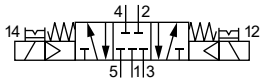
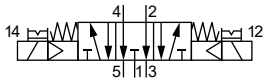
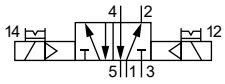
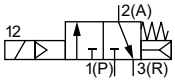
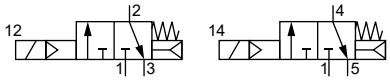
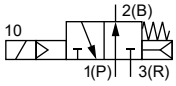
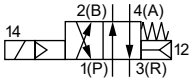
3. Circuit functions

3.1. Standard functions

Symbol	Description
	**Circuit function C (CF C)** 3/2-way solenoid valve Servo-controlled, with manual override Normally closed
	**Circuit function C (CF C)** 2 × 3/2-way solenoid valve Servo-controlled, with manual override Normally closed
	**Circuit function D (CF D)** 3/2-way solenoid valve Servo-controlled, with manual override Normally open
	**Circuit function H (CF H)** 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.
	**Circuit function L (CF L)** 5/3-way solenoid valve With manual override In middle position all ports locked
	**Circuit function N (CF N)** 5/3-way solenoid valve With manual override In middle position ports 2 and 4 exhausted
	**Circuit function Z (CF Z)** 5/2-way solenoid valve Impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure.

3.2. SIA variant (for safety-related shut-off)

Symbol	Description
	**Circuit function C (CF C)** 3/2-way solenoid valve Servo-controlled Normally closed
	**Circuit function C (CF C)** 2 × 3/2-way solenoid valve Servo-controlled Normally closed
	**Circuit function D (CF D)** 3/2-way solenoid valve Servo-controlled Normally open
	**Circuit function G (CF G)** 4/2-way solenoid valve Servo-controlled

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4. Approvals and conformities

4.1. General notes

- The approvals and conformities listed below must be stated when making enquiries. This is the only way to ensure that the product complies with all required specifications.
- Not all available variants can be supplied with the below mentioned approvals or conformities.

4.2. Conformity

In accordance with the Declaration of Conformity, the product is compliant with the EU Directives.

4.3. Standards

The applied standards which are used to demonstrate compliance with the EU Directives are listed in the EU-Type Examination Certificate and/or the EU Declaration of Conformity.

4.4. Explosion protection

Approval	Description
	Optional: Explosion protection As a category 3 device suitable for zone 2. **ATEX:** BVS 18 ATEX E 078 X II 3G Ex ec IIC T4 Gc **IECEx:** IEC Ex BVS 18.0068 X Ex ec IIC T4 Gc

4.5. North America (USA/Canada)

Approval	Description
	Optional: UL Listed for the USA and Canada The products are UL Listed for the USA and Canada according to: • UL 61010-1 (ELECTRICAL EQUIPMENT FOR MEASUREMENT, CONTROL, AND LABORATORY USE – Part 1: General Requirements) • CAN/CSA-C22.2 No. 61010-1

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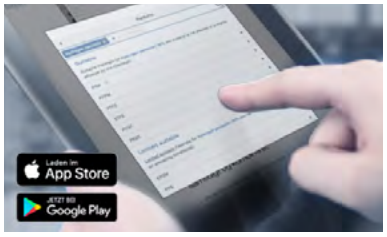
5. Materials

5.1. Bürkert resistApp



Bürkert resistApp – Chemical resistance chart

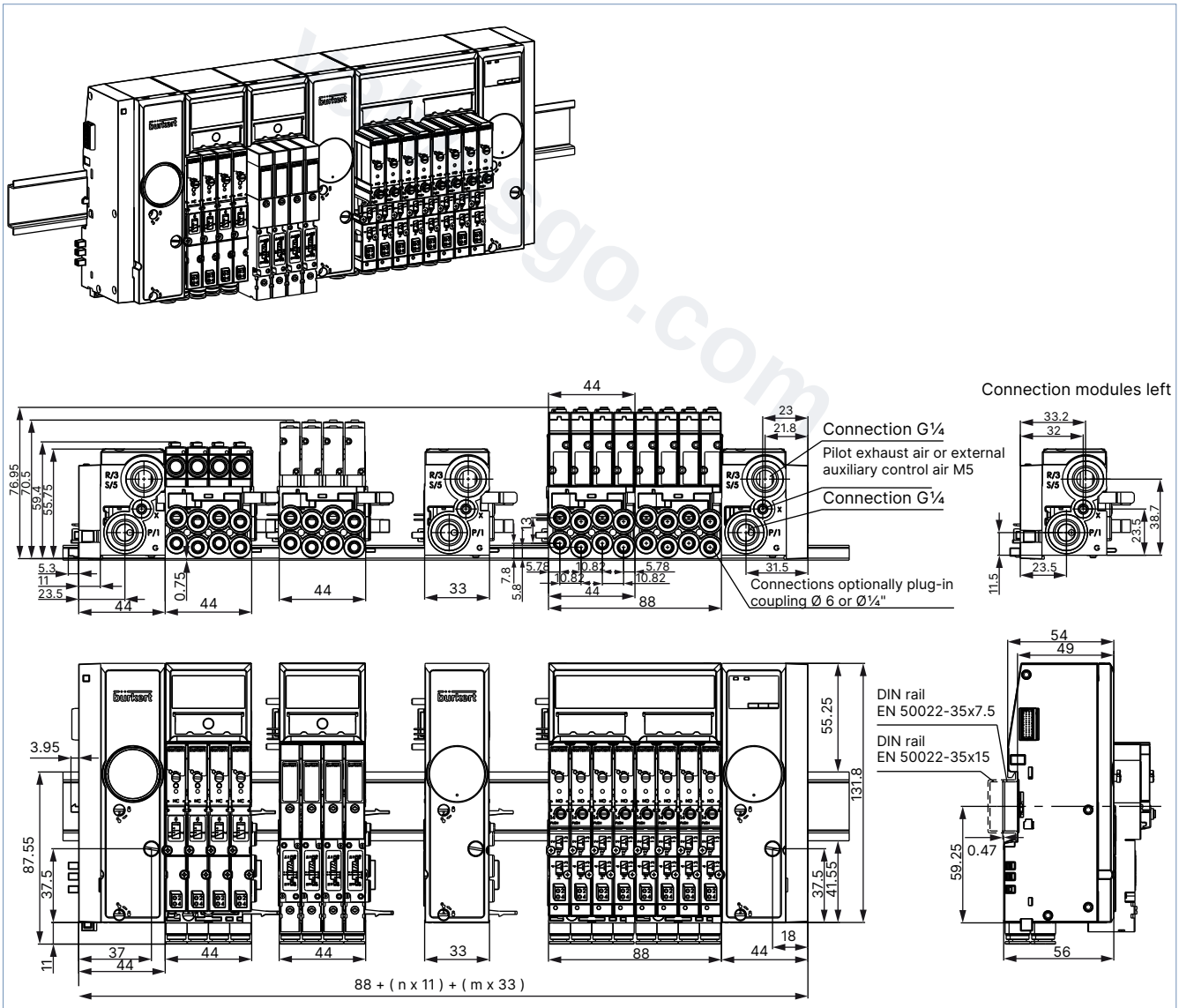
You want to ensure the reliability and durability of the materials in your individual application case? Verify your combination of media and materials on our website or in our resistApp.

Start chemical resistance check

6. Dimensions

6.1. Type 8647

Note:
Dimensions in mm, unless otherwise stated



n = number of valve positions
m = number of connection modules, centre

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7. Product installation

7.1. Installation notes

- External-Valve-Shut-off function (EVS function): the switching contact must be located in the same control cabinet as the valve block. The line length must be limited to a maximum of 2 m.
- The Hot Swap function of the individual valves cannot be combined with the ATEX/IECEx-Ex approval.
- The following project planning and commissioning restrictions must be observed:

Description	Type 8647 combines with	
	ET 200SP	ET 200SP HA
Installation with standard file PROFINET IO (GSDML)	Yes	Yes
Installation with standard file PROFIBUS DP (GSD)	Yes	No
Full integration in Software STEP 7 Classic (HSP)	Yes	No
Full integration in Software STEP 7 TIA-Portal (HSP)	Yes	No
Full integration in Software PCS 7 V9.0 SP2 (HUP)	Yes (HF Interface module required)	Yes
Several valve blocks can be arranged in series in one station	Yes (new power supply necessary)	No
Link to Siemens homepage	**Assembly limits for Siemens ET 200SP** ▸	**Assembly limits for Siemens ET 200SP HA** ▸
New power supply (ET 200SP base unit) required upstream of the valve block	Recommended, but not mandatory	Yes (mandatory) (base unit cover required)
Further ET 200SP modules can be mounted to the right of the valve block	Yes	No

8. Ordering information

8.1. Bürkert eShop

Bürkert eShop – Easy ordering and quick delivery

You want to find your desired Bürkert product or spare part quickly and order directly? Our online shop is available for you 24/7. Sign up and enjoy all the benefits.

Order online now

8.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

You want to select products comfortably based on your technical requirements?
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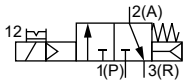
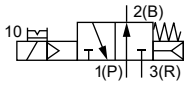
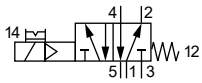
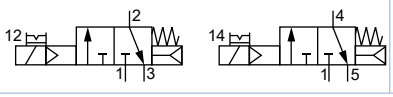
8.3. Ordering chart replacement valves

Solenoid valves Type 6524 and Type 6525

Note:
Further information about this product variant can be found in chapter "1.2. Solenoid valves Type 6524 and Type 6525" on page 5.

Circuit function	Nominal diameter	Q_{Nn} value air 1.)	Pressure range	Switching times		Voltage/ Frequency	Article no.	
				Opening	Closing		Valves for 8647 REV1 3.)	Valves for 8647 REV2 3.)
	[mm]	[l/min]	[bar]	[ms]	[ms]	[V/Hz]		
C (CF C) 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	4.0	300	Vac....7	15	20	24 V DC	20029915	20029923
			1...10 2.)	15	20	24 V DC	20029913	20029921
			2.5...10	15	28	24 V DC	20029910	20029918
D (CF D) 3/2-way solenoid valve Servo-controlled, with manual override Normally open 	4.0	300	2.5...10	15	28	24 V DC	20029911	20029919
H (CF H) 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	4.0	300	1...10 2.)	15	20	24 V DC	20029914	20029922
			2.5...10	20	28	24 V DC	20029912	20029920
C (CF C) 2 × 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	4.0	300	1...10 2.)	12	20	24 V DC	300817	
			2.5...10	12	20	24 V DC	204710	

1.) With integrated hot swap and/or non-return function, see chapter "2.2. Distinguishing features" on page 8
2.) Variant with auxiliary pilot air
3.) If you have any questions about the compatibility of the valve revision, please contact your Bürkert sales office.

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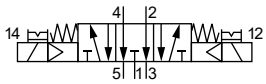
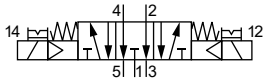
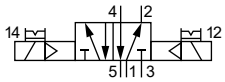
Solenoid valves Type 0460

Note:
Further information about this product variant can be found in chapter "1.3. Solenoid valves Type 0460" on page 6.

Circuit function	Nominal diameter	Q_{Nn} value air[1.)]	Pressure range[2.)]	Switching times		Nominal power	Article no. Valve for 8647 REV1, REV2
				Opening	Closing		
	[mm]	[l/min]	[bar]	[ms]	[ms]	[W]	
L (CF L) 5/3-way solenoid valve With manual override In middle position ports 2 and 4 exhausted 	2.5	200	2...7	15	20	1	154184
N (CF N) 5/3-way solenoid valve With manual override In middle position ports 2 and 4 exhausted 	2.5	200	2...7	15	20	1	154185
Z (CF Z) 5/2-way solenoid valve Impulse variant with 2 coils and manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	2.5	200	2...7	15	15	0.5	154183

1.) Measured at + 20 °C, 6 bar pressure at valve inlet, 1 bar differential pressure
2.) Pressure indication: overpressure to atmospheric pressure

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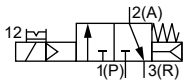
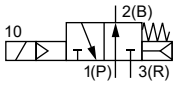
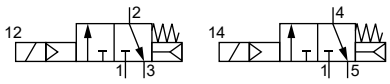
3/2-way solenoid valve without manual override

Circuit function	Nominal diameter [mm]	Q_{Nn} value air [l/min] 1.)	Pressure range [bar] 2.)	Voltage/ frequency [V/Hz]	Article no. Valve for 8647 REV1	Article no. Valve for 8647 REV2
C (CF C) 3/2-way solenoid valve Servo-controlled, with manual override Normally closed 	4	300	Vac....10 3.)	24 V DC	o. r.	o. r.
			1...10	24 V DC	o. r.	o. r.
			2.5...10	24 V DC	20029916	20029924
D (CF D) 3/2-way solenoid valve Servo-controlled Normally open 	4	300	2.5...10	24 V DC	o. r.	o. r.

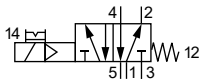
o. r. = on request
1.) Measured at + 20 °C, 6 bar pressure at valve inlet and 1 bar differential pressure
2.) Pressure indication: overpressure to atmospheric pressure
3.) Variant with auxiliary pilot air

2 × 3/2-way solenoid valve without manual override

Circuit function	Nominal diameter [mm]	Q_{Nn} value air [l/min] 1.)	Pressure range [bar] 2.)	Voltage/ frequency [V/Hz]	Integrated power reduction	Article no. Valve for 8647 REV1 / REV2
C (CF C) 2 × 3/2-way solenoid valve Servo-controlled Normally closed 	4	300	Vac...10 3.)	24 V DC	No	o. r.
	–	–	2.5...10	24 V DC	No	300818

o. r. = on request
1.) Measured at + 20 °C, 6 bar pressure at valve inlet and 1 bar differential pressure
2.) Pressure indication: overpressure to atmospheric pressure
3.) Variant with auxiliary pilot air

5/2-way solenoid valve without manual override

Circuit function	Nominal diameter [mm]	Q_{Nn} value air [l/min]	Pressure range [bar]	Switching times Opening [ms]	Switching times Closing [ms]	Voltage/ frequency [V/Hz]	Article no. Valve for 8647 REV1	Article no. Valve for 8647 REV2
H (CF H) 5/2-way solenoid valve Servo-controlled, with manual override Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 	4	300	2.5...10	20	28	24 V DC	20029917	20029925

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8.4. Ordering chart accessories

Cover plate

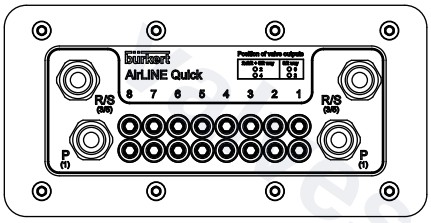
Note:

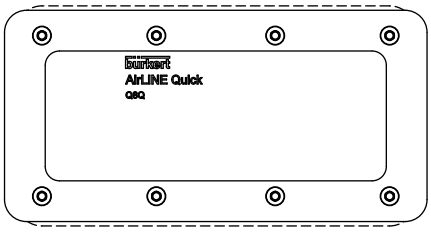
- If not all the valve connections in a basic valve unit module are used, then these connections should be covered by the appropriate cover plate to ensure full efficiency.
- If a valve slot is pneumatically covered with a cover plate, the electrical connection on the electrical base module must also be covered.

Cover plate	Article no.
Cover plate for solenoid valves Type 6524/6525 (REV1)	650373
Cover plate for solenoid valves Type 6524/6525 (REV2)	661092
Cover plate for solenoid valves Type 6524 2× 3/2-way valve	661092
Cover plate for solenoid valves Type 0460	655069
Cover for electrical connection (all valve types)	653670

Blind plates AirLINE Quick

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





Description	Article no.
Blind plate AirLINE Quick, 4-fold	20057391
Blind plate AirLINE Quick, 8-fold	20057390
Blind plate AirLINE Quick, 12-fold	20057388
Blind plate AirLINE Quick, 16-fold	20057387
Blind plate AirLINE Quick (valve terminal with Intermediate feed), 16-fold	20056955
Blind plate AirLINE Quick, 24-fold	20057392
Blind plate AirLINE Quick (valve terminal with Intermediate feed), 24-fold	20057394

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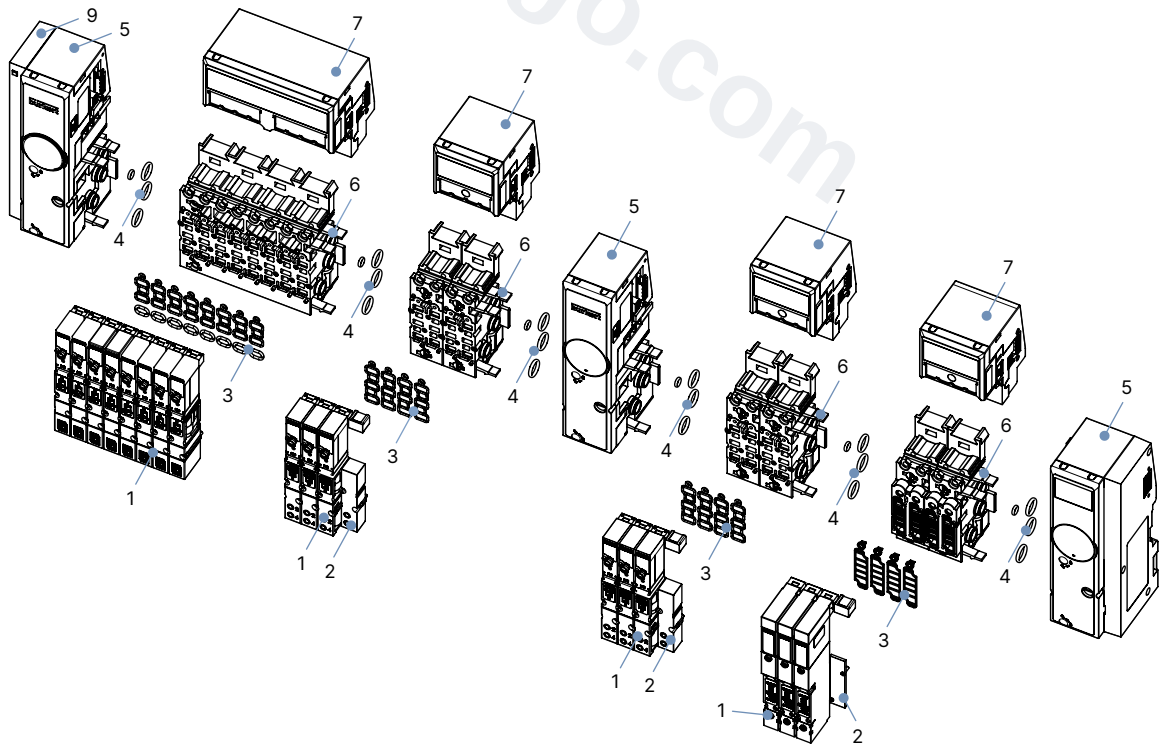
8.5. Ordering chart spare parts

Spare parts SVVI for Type 8647, REV1 – Pneumatics 11 mm width per station

Pos.	Description	Content	Article no.
1	**Spare valves** see "8.3. Ordering chart replacement valves" on page 14	–	–
2	**Cover plate** see "8.4. Ordering chart accessories" on page 17	–	–
3	**Set of valve seals**	–	–
	Spare valve seals FM20 for Type 6524, 2 × 3/2-way solenoid valve	12	20016305
	Spare valve seals FM15 for Type 6524, 3/2-way solenoid valve	12	20024333
	Spare valve seats FM14 for Type 6525, 5/2-way solenoid valve	12	20024334
	Spare valve seals FM16 for Type 0460, 3/2-way solenoid valve	12	20024330
4	**Sets of module seals**	–	–
	Spare module seals for Type MP11	4	20040779
5	**Connection units**	o. r.	o. r.
6	**Base modules**	o. r.	o. r.
7	**Electronic modules**	–	–
	Electrical base module for Type 8647, 11 mm, 4-fold, single valve	1	20040548
	Electrical base module for Type 8647, 11 mm, 4-fold, single valve EVS	1	20040549
	Electrical base module for Type 8647, 11 mm, 4-fold, double valve	1	20040550
	Electrical base module for Type 8647, 11 mm, 4-fold, double valve EVS	1	20040552
	Electrical base module for Type 8647, 11 mm, 8-fold, single valve	1	20040554
	Electrical base module for Type 8647, 11 mm, 8-fold, single valve EVS	1	20040555
	Electrical base module for Type 8647, 11 mm, 8-fold, double valve	1	20040556
	Electrical base module for Type 8647, 11 mm, 8-fold, double valve EVS	1	20040557
8	**AirLINE Quick spare parts** see "8.4. Ordering chart accessories" on page 17	–	–
9	**Interface module for Type 8647**	1	20029826

o. r. = on request



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Spare parts SVVI for Type 8647, REV2 – Pneumatics 11 mm width per station

Pos.	Description	Content	Article no.
1	**Spare valves** see "8.3. Ordering chart replacement valves" on page 14	–	–
2	**Cover plate** see "8.4. Ordering chart accessories" on page 17	–	–
3	**Set of valve seals**	–	–
	Spare valve seals FM20 for Type 6524, 2 × 3/2-way solenoid valve	12	20016305
	Spare valve seals FM24 for Type 6524, 3/2-way solenoid valve	12	20024336
	Spare valve seals FM16 for Type 0460	12	20024330
4	**Sets of module seals**	–	–
	Spare module seals for Type MP16	4	20024339
5	**Connection units**	–	–
	Supply unit left for Type 8647, 11 mm, G ¼, with pressure sensor	1	20030009
	Supply unit left for Type 8647, 11 mm, G ¼, with manometer	1	20030059
	Supply unit right for Type 8647, 11 mm, G ¼, with manometer	1	20030060
	Intermediate feed for Type 8647, 11 mm, G ¼, with manometer	1	20030061
	Supply unit left for Type 8647, 11 mm, G ¼,	1	20030062
	Intermediate feed for Type 8647, 11 mm, G ¼,	1	20030063
	Supply unit right for Type 8647, 11 mm, G ¼, with manometer	1	20030064
	Supply unit right for Type 8647, 11 mm, G ¼, with pressure sensor	1	20030065
6	**Base modules**	–	–
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D6, FM20	1	20040334
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D6, FM20, Hot Swap, RSV	1	20040335
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D¼, FM20	1	20040337
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D¼, FM20, Hot Swap, RSV	1	20040339
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D6, FM16	1	20040340
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D6, FM16, RSV	1	20040343
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D¼, FM16	1	20040344
	Base unit for Type 8640, 8644, 8647, 11 mm, 4-fold, D¼, FM16, RSV	1	20040345
7	**Electronic modules**	–	–
	Electrical base module for Type 8647, 11 mm, 4-fold, single valve	1	20040548
	Electrical base module for Type 8647, 11 mm, 4-fold, single valve EVS	1	20040549
	Electrical base module for Type 8647, 11 mm, 4-fold, double valve	1	20040550
	Electrical base module for Type 8647, 11 mm, 4-fold, double valve EVS	1	20040552
	Electrical base module for Type 8647, 11 mm, 8-fold, single valve	1	20040554
	Electrical base module for Type 8647, 11 mm, 8-fold, single valve EVS	1	20040555
	Electrical base module for Type 8647, 11 mm, 8-fold, double valve	1	20040556
	Electrical base module for Type 8647, 11 mm, 8-fold, double valve EVS	1	20040557
8	**AirLINE Quick spare parts** see "8.4. Ordering chart accessories" on page 17	–	–
9	Interface module for Type 8647	1	20029826

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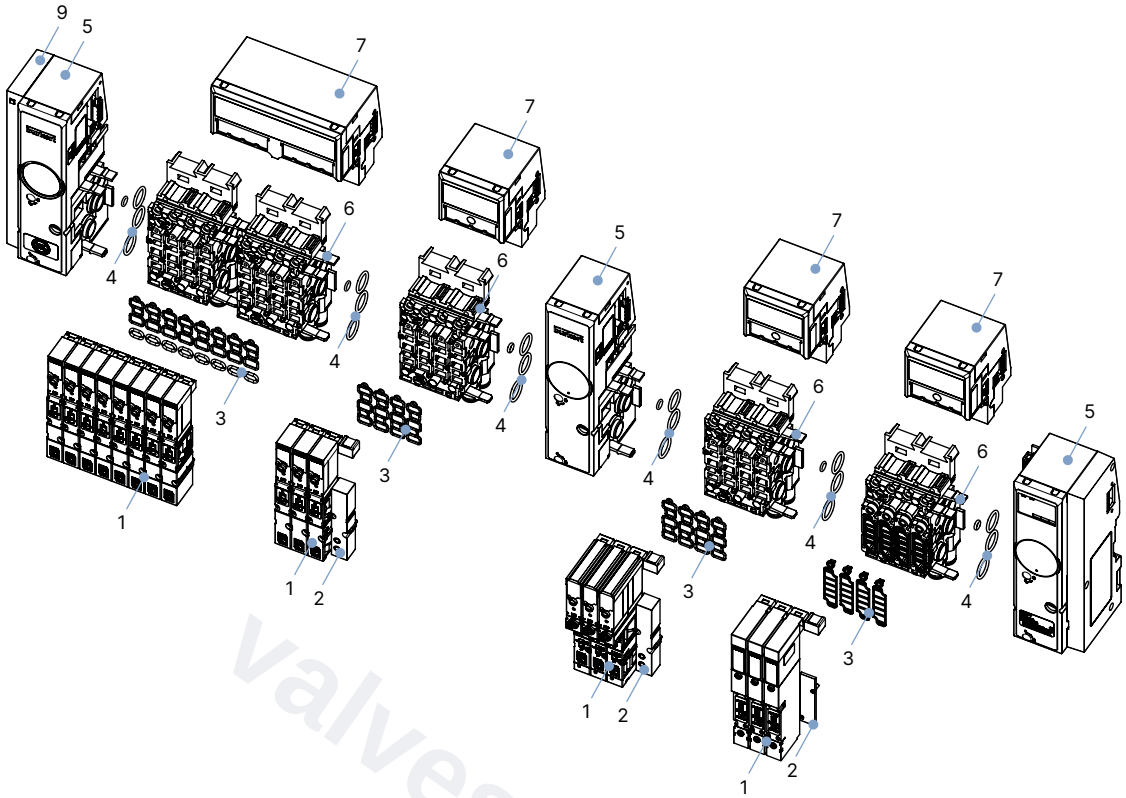

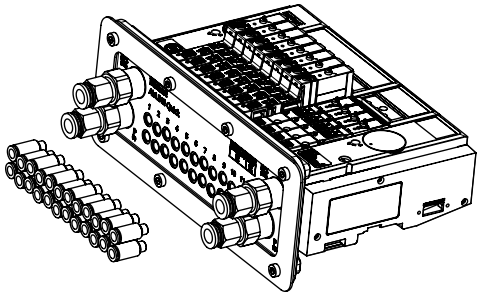

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