



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
- Combination of fieldbus, pilot valves and I/O modules
- Easy diagnostics by LC display

Type description

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	
1	2/2 way globe valve	
	CLASSIC	
-	Type 8692	
	Digital electro-pneu-	
	matic positioner for	
	integrated mounting on	
	process control valves	
	Type 6524	
	3/2-way or 2 x 3/2-way	
2	solenoid valve for pneu-	
	matic applications	
	Type 6525	
	5/2-way solenoid valve	
20	for pneumatic applica-	
1	tions	

Type 8614



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 refers to the pilot valves, Types 0460, 6524 and 6525.

Product properties	
Width per station	11 mm
Max. number of modules	Depending on application
Max. number valve functions	64 on one valve block; several valve blocks possible on one station ^{1.)}
Manual override	Standard
Circuit function	Detailed information can be found in chapter "3. Circuit functions" on page 7.
Performance data	
Flow rate	300 l/min ^{2.)}
Flow rate with integrated P shut-off	240 l/min
Flow rate: Q _{Nn} value air	Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference
Pressure range	Vac. up to 10 bar (with UL approval up to 8 bar)
Pressure values	Overpressure with respect to atmospheric pressure
Response time	Measured according to ISO 12238
Temperatures	
Ambient	0 °C+ 55 °C (for impulse valve Type 0460: 0 °C+ 50 °C)
Storage	-20 °C+60 °C
Electrical data	
Circuit function	C (3/2 way), D (3/2 way), H (5/2 way), H (5/2 way) impulse. L + N (5/3 way) See "3. Circuit functions" on page 7.
Fieldbus type	PROFIBUS DP, PROFINET I/O
Electrical module	Siemens SIMATIC ET200SP and ET 200SP HA
Operating voltage	24 V DC
Voltage tolerance	±10%
Residual ripple	2.4 Vss
Nominal power per valve	0.8 W (0.5 W Nominal power acc. to 120 ms)
Rated current per valve	40 mA (<mark>28</mark> mA hold current after 120 ms)
	20 mA (b <mark>y</mark> use of Type 0460)
Medium data	
Operating medium	Compressed air, lubricated, oil free, dry; neutral gases (5 µm Filter recommended) ISO 8573-1: 2010, Class 7.4.4
Approvals and certificates	ciau
Approval	ATEX, Zone 2 (BVS 18 ATEX E 078 X) IECEx, Zone 2 (IECEx BVS 18.0068X) UL approval (2018-2-28-E238179)
Protection class	IP20, IP65 in closed field housing

1.) With ET 200SP HA only one valve block possible. For details on max. station configuration, see manual.

2.) Maximum flow rate depending on valve function.

3|16

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1.2. AirLINE Quick technical data

Note:

The valves of Type 0460 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 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 switch cabinet

Product properties	
Material: AirLINE Quick Adapter	Stainless steel 1.4301 Aluminium anodized
Material: pneumatic connection	Stainless steel 1.4301 brass nickel-plated
Valve functions per station	4, 12, 16, 24, 32 and 48
Process/Port connection & communication	
Connection: pneumatic feeding	G ¼
Connection: pneumatic service ports	Plug-in coupling Ø 6 mm, Ø ¼"
Environment and installation	
Installation	Wall control cabinet



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2. Product versions

2.1. Solenoid valves Type 6524 and Type 6525



- The pilot valves of **Type 6524** ▶ (single and double valve) and **Type 6525** ▶ (single valve) consist of a pilot flipper solenoid valve of Type 6144 and a pneumatic seat valve. The operating principle 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 REV. 2 has been standardised. There is a difference to the flange pattern of the pilot valves for Type 8647 REV. 1. It is therefore imperative to take into account the different article numbers of the pilot valves as described in chapter "7.3. Ordering chart replacement valves Type 6524 and Type 6525" on page 11.
- For detailed information regarding ordering information see "7.3. Ordering chart replacement valves Type 6524 and Type 6525" on page 11.

Pilot valve Type	6524 / 6525	6524			
Circuit function	3/2 and 5/2 way valve 2 × 3/2 way valve				
Product properties					
Materials					
Body	PA (Polyamide)				
Seal	FPM, NBR and PUR				
Width per station	11 mm	1			
Manual override	Standard				
Pneumatic module	With plug-in coupling, Ø 6 mm, Ø) 1⁄4"			
Performance data					
Pressure data	Overpressure to atmospheric pre	ssure			
Flow rate (Q _{Nn} value air)	See "7.3. Ordering chart replacement valves Type 6524 and Type 6525" on page 11, measured at +20 °C, 6 bar pressure at the valve inlet and 1 bar pressure difference.				
Duty cycle	Continuous operation (100 % ED)				
Switching times	Measured according to ISO 12238				
Electrical data					
Nominal power	0.8 W	2×0.8 W			
Electrical connection at the valve	Rectangular plug 2 pin grid Rectangular plug 3 p spacing 5.08 mm spacing 2.54 mm Cable with leads ^{1,1} Cable with leads ^{1,1}				
Process/Port connection & comm	nunication				
Supply port connection 1 (P), 3 (R), 5 (S)	G ¼				
Service port 2 (A), 4 (B)	Plug-in coupling Ø 6 mm, plug-in coupling Ø ¼"				
Environment and installation					
Installation	As required, preferably with actuator upright				
Montage	With 2 screws M2×20				

1.) Versions with safety-related shutdown. 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.

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2.2. Solenoid valve Type 0460



The pilot valve, **Type 0460** ▶, consists of a pneumatic valve body fitted with a double coil pilot valve. The principle allows switching of high pressures together with low power consumption and fast response times. All valves are equipped with manual override as a standard.

See "7.4. Ordering chart replacement valves Type 0460" on page 12.

Pilot valve Type	0460			
Circuit function	5/2 way and 5/3 way Impulse value			
Dreakest successfies	5/2 way and 5/5 way impulse value			
Product properties				
Materials				
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)	See "7.3. Ordering chart replacement valves Type 6524			
	pressure at the valve inlet and 1 bar pressure difference.			
Switching times	Measured according to ISO 12238			
Electrical data				
Electrical connection at the valve	Rectangular plug 3 pin grid spacing 2,54 mm			
Process/Port connection & com	munication			
Supply port connection 1 (P), 3 (R), 5 (S)	G 1⁄4			
Service port 2 (A), 4 (B)	Plug-in coupling Ø 6 mm, plug-in coupling Ø ¼"			
Environment and installation				
Installation	As required, preferably with actuator upright			
Montage	With 2 screws M1,7×23			

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3. Circuit functions



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4. Dimensions

Note:



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5. Product installation

5.1. 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.
- HotSwap function of the individual valves cannot be combined with the ATEX/IEC-Ex approval. .
- The following project planning and commissioning restrictions must be observed.

		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) (HF	Yes Interface module r	equired)	Yes				
Several valve blocks can be arranged in series in one station (new	Yes power supply ne	cessary)		No			
Link to Siemens homepage	Assembly limits Siemens ET 2005	for P	Assen Siemens	nbly limits for ET 200SP HA ▶			
New power supply (ET 200SP base unit) required upstream of the valve block	Recommended, bu mandatory	it not	Yes (base uni	(mandatory) it cover required)			
Further ET 200SP modules can be mounted to the right of the valve block	Yes	V		No			

Product design and assembly 6.

6.1. Notes on compatibility and revision levels

The single valves of the Types 6524 and 6525, the pneumatic basic and connection modules and the AirLINE Quick control cabinet base adaption have been revised due to various optimisations.

Distinguishing features valve island



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

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20

Distinguishing features module

Revision island	8647 REV. 1 ^{1.)}	8647 REV. 2
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 representative.

Distinguishing features valves

Valves 6524/6525	Valve REV. 1	Valve REV. 2
Article no.	Distinguishing by Article no. see "7.3. Orde and Type 6525" on page 11	ring chart replacement valves Type 6524
Visual distinction	REV. 1 Single valves Type 6524 and Type 6525 with flange interface "FM14"	nt size hannels Participation of the size
Information label	There is a corresponding information label of the valve has been overhauled. This informably.	on the relevant valve which indicates that ation label must be removed before assem-

For further details, see operating instructions **Type 8647** , chapter 5.4.

7. Ordering information

7.1. Bürkert eShop – Easy ordering and quick delivery



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7.2. Bürkert product filter

Process Pressant / Scotting	Bürkert product filter – Get quickly to the right product
Callered Base	You want to select products comfortably based on your technical requirements? Use the Bürkert product filter and find suitable articles for your application quickly and
Animal pressure max -1 bar -5 2 bar 2 bar 2 5 2 4 5 2,5 16	Try out our product filter

7.3. Ordering chart replacement valves Type 6524 and Type 6525

Note:

For detailed information on the corresponding product version, see "2.1. Solenoid valves Type 6524 and Type 6525" on page 5.

Circuit function	Orifice	ifice Q _{Nn} value air ^{1.)}	Pressure	Switching times		Voltage/	Article no.	
			range	Opening	Closing	Frequency	Valves Rev. 1	Valves Rev. 2
	[mm]	[l/min]	[bar]	[ms]	[ms]	[V/Hz]	for 8647 Rev. 1 ^{3.)}	for 8647 Rev. 2 ^{3.)}
Type: C, solenoid valve 3/2 way	4.0	300	Vac7	15	20	24 V DC	20029915 🛒 (186258) ^{4.)}	20029923 ∖ ∷ (20013119) ^{4.)}
Normally closed		-1.1	110 ^{2.)}	15	20	24 V DC	20029913 ∖ . (186257) ^{4.)}	20029921 ∖ ∷ (20013114) ^{4.)}
	U	50	2.510	15	28	24 V DC	20029910 [™] (184043) ^{4.)}	20029918 भ्र (365606) ^{4.)}
Type: D, solenoid valve 3/2 way Servo-controlled, with manual mode Normally open 10 10 10 10 10 10 10 10 10 10	4.0	300	2.510	15	28	24 V DC	20029911 ᅜ. (184400) ^{4.)}	20029919 ᠠ (365609) ^{4,j}
Type: H, solenoid valve 5/2 way	4.0	300	110 ^{2.)}	15	20	24 V DC	20029914 ` ! (186271) ^{4.)}	20029922 уя (20013117) ^{4.)}
Servo-controlled, pilot air and manual mode Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 14 - 12 14 - 12 14 - 12 14 - 12 14 - 12 14 - 12 12	ists		2.510	20	28	24 V DC	20029912 河 (179938) ^{4.)}	20029920 诃 (365610) ^{4.)}
Type: C, solenoid valve	4.0	300	110 ^{2.)}	12	20	24 V DC	3008	17 🛒
2 x 3/2 way Servo-controlled, with manual mode Normally closed 12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14			2.510	12	20	24 V DC	2047	10 👾

1.) With integrated HotSwap and/or non-return function, see chapter "Distinguishing features module" on page 10.

2.) Version with auxiliary pilot air

3.) If you have any questions regarding the compatibility of the valve revision, please contact your Bürkert sales representative.

4.) The valve article number can no longer be ordered. Please order superior set.

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7.4. Ordering chart replacement valves Type 0460

Circuit function		Orifice Q _{Nn} value Pressure range Switching times		times	Nominal power	Article no. Valve Rev. 1	
		[l/min]	[bar]	Opening [ms]	Closing [ms]	[W]	for 8647 Rev.1, 2 & 3
Type: Z, solenoid valve 5/2 way Impulse version with 2 coils and manual mode Normally open Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 14 14 14 14 14 12 14 12 13	2.5	200	2.07.0	15	15	0.5	154183 🤄
Type: L, solenoid valve 5/3 way With manual mode In middle position all ports locked Normally closed 14-14-14-12 14-14-14-12 5 113	2.5	200	2.07.0	15	20	1	154184 🤄
Type: N, solenoid valve 5/3 way With manual mode In middle position ports 2 and 4 exhausted There is always one of the two outlet ports (2) or (4) pressurized when coil is activated. 14 + 12 + 12 + 12 + 12 + 12 + 12 + 12 +	2.5	200	2.07.0	15	20		154185 🦻

7.5. Ordering chart replacement valves Type 6524 and Type 6525 with second connection for shut-off function 3/2 way solenoid valve without manual override

Circuit function	Orifice	Q _{Nn} value air	Pressure range	Voltage/ frequency	Article no. Valve Rev. 1	Article no. Valve Rev. 2
	[mm]	[l/min] ^{1.)}	[bar] ^{2.)}	[V/Hz]	for 8647 Rev. 1	for 8647 Rev. 2
Type: C, solenoid valve	4	300	Vac10 ^{3.)}	24 V DC	On request	On request
3/2 way	SPE		110	24 V DC	On request	On request
Normally closed 12 12 1(P)		2.510	24 V DC	20029916 评 (285545) ^{4.)}	20029924 ૻ਼ਾ (20013136) ^{4.)}	
Type: D, solenoid valve 3/2 way Servo-controlled Normally open 10 10 10 10 10 10 10 10 10 10	4	300	2.510	24 V DC	On request	On request

1.) Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference

2.) Measured as overpressure to the atmospheric pressure

3.) Version with auxiliary pilot air

4.) The valve article number can no longer be ordered. Please order superior set.

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2×3/2 way solenoid valve without manual override

Circuit function	Orifice [mm]	Q _{Nn} value air [l/min] ^{1.)}	Pressure range [bar] ^{2.)}	Voltage/ frequency [V/Hz]	Integrated power reduction	Article no. Valve Rev. 1 for 8647 Rev.1 & 2
Type: C, solenoid valve $2 \times 3/2$ way Servo-controlled Normally close 12 12 13 14 14 15	4	300	Vac10 ³⁾ 2.510	24 V DC 24 V DC	No No	On request 300818 뜻

1.) Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference

2.) Measured as overpressure to the atmospheric pressure

3.) Version with auxiliary pilot air

5/2 way solenoid valve without manual override

Circuit function	Orifice	Q _{Nn} value air	Pressure range	Switching	ching times Voltage/ Ar frequency Val		Article no. Valve Rev. 1	Article no.Article no./alve Rev. 1Valve Rev. 2
	[mm]	[l/min]	[bar]	Opening [ms]	Closing [ms]	[V/Hz]	for 8647 Rev. 1	for 8647 Rev. 2
Type: H, solenoid valve 5/2 way Servo-controlled, pilot air and manual mode Pressure applied via port (1), therefore one of the two ports (2) or (4) is under pressure. 14 - 12 14 - 12 14 - 12 12 5 113	4	300	2.510	20	28	24 V DC	20029917 एन (285544) ¹³	20029925 评 (20013137) ^{1.)}

1.) The valve article number can no longer be ordered. Please order superior set.

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7.6. Ordering chart accessories

Covering plates

Note:

If not all valve positions on a pneumatic base module are used on a valve terminal, this valve position must be provided with a covering plate to ensure full functionality of the valve terminal.

Covering plates	Article no.
Covering plate for solenoid valves Type 6524/6525 (Rev. 1)	650373 🛒
Covering plate for solenoid valves Type 6524/6525 (Rev. 2)	661092 📜
Covering plate for solenoid valves Type 6524 2 × 3/2 way valve	661092 🛒

Blind plates

Note:

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

0

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	12.45		_
0	0	0	0
	AirLINE Quick alla		
(Surfaut)

0

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Material	Number of valve positions	Article no.
Stainless steel 1.4301	4	246938 🛒
	8	246934 ቛ
	12	246930 🛒
	16	246926 🛒
	16 with Intermediate supply	246936 🖼
	24	246928 📜
	24 with Intermediate supply	246932 📜
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7.7. Ordering chart spare parts

Pos.	Description	Content	Article no.
1	Replacement valves	-	See "7.3. Ordering chart replacement valves Type 6524 and Type 6525" on page 11
2	Cover plates	-	See "7.6. Ordering chart acces- sories" on page 14
3	Set of valve seals		
	Profile seal set pilot valve Type 6524, 2x 3/2 way	12 seals	20016305 🛱
	Profile seal set pilot valve Type 6525, REV. 1	12 seals	20024334 📜
	Profile seal set pilot valve Type 6525, REV. 2	12 seals	20016305 🛒
	Profile seal set pilot valve Type 6524, 3/2 way, REV. 1	12 seals	20024333 🛒
	Profile seal set pilot valve Type 6524, 3/2 way, REV. 2	12 seals	20 <mark>02</mark> 4336 ₩
	Profile seal set pilot valve Type 0460	12 seals	20024330 😕
4	Set of seals modules	12 seals	20024339 🖼
5	Connection assemblies	On request	On request
6	Valve module assemblies	On request	On request
7	Set interface unit, left	1	20029826 🛱
8	Set of hose connectors Ø 6 mm brass	8	20024340 🖼
	Set of hose connectors Ø 6 mm VA	8	20024341 🖼



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