

AirLINE SP - Electropneumatic

modules and valve modules. It is perfectly designed for safe and complete integration into the decentralized peripheral system "SIMATIC ET 200SP" from Siemens. Type 8647 is used to integrate pneumatic pilot valves directly into the SIMATIC ET 200SP matically actuated process valves, pneumatic cylinders or other pneumatic components can be connected to the pneumatic outputs. If the pneumatic components are installed with digital feedbacks, the position of the actuated pneumatic components can be displayed on the associated pilot valve. This can save time on commissioning and maintenance.

PROFIBUS DP, PROFINET I/O Fieldbus type Electrical modules Siemens ET200SP 24 V/DC **Operating voltage** Voltage tolerance $\pm 10\%$ 2.4 V **Residual ripple** 0.8 W (0.5 W Nominal power acc. to 120 ms) Nominal power per valve 40 mA (28 mA Hold current after 120 ms) Rated current per valve 20 mA (by use of Type 0460) Temperatures 0 to +55 °C Ambient Storage -20 to +60 °C Protection class **IP20** IP65 in closed field housing Approvals ATEX & IECEx, Zone 2 (in preparation)

8647 AirLINE SP



11 mm width/station: Solenoid Valves 6524 and 6525



The solenoid valve Types 6524 and 6525 consist of a 6144 flipper pilot valve and a pneumatic seat valve. The principle allows switching of high pressures together with low power consumption and fast response times. The pilot valves are equipped with manual override as a standard.

Specification	2/2 and $5/2$ way value	2 x 2/2 way yalva			
•	3/2 and 5/2 way valve 2 x 3/2 way valve				
Body material	PA (Polyamide)				
Seal materials	FPM, NBR and PUR				
Medium	compressed air, lubricated, oil free, dry; neutral gases (5 μm Filter)				
Port connections	Flange for MP11				
Pneumatic module	Type MP11 with push-in connection Diameter 6 mm, D1/4 Threaded port M7				
Manual override	Standard				
Operating voltage	24 V DC*				
Nominal power	0.8 W	2 x 0.8 W			
Duty cycle	Continuous operation (100% ED)				
Electrical connection at the valve	Rectangular plug 2-pin grid spacing 5.08 mm	Rectangular plug 3-pin grid spacing 2.54 mm			
Mounting	with 2 screws M2 x 20 with 2 screws M				
Installation	As required, preferably with actuator upright				
Flow rate: QNn value air [l/min]	Measured at +20 °C, 6 bar pressure at valve inlet and 1 bar pressure difference				
Pressure values [bar]:	Overpressure with respect to atmospheric pressure				
Response times [ms]:	Measured according to ISO 12238				
* 10% residual ripple allowed					

10% residual ripple allowed

Ordering chart for valves

	0.15	QNn value	Pressure	Response times		Voltage/	
Circuit function	Orifice [mm]	air [l/min]	range [bar]	Opening [ms]	Closing [ms]	Frequency [V/Hz]	Item no.
C (2(A)	4	300	Vac7	15	20	24 V DC*	186 258
			1-10 ¹	15	20	24 V DC*	186 257
$\frac{ / \rangle \tau \tau \tau - \langle - \langle \rangle}{1(P) 3(R)}$			2.5-10	15	2	24 V DC*	184 043
3/2 way Solenoid Valve servo-assisted, normally closed, with manual override							
D 2(B)	4	300	2.5-10	15	28	24 V DC*	184 400
3/2 way Solenoid Valve direct-acting,							
normally open, with manual override							
H 4 2	4	300	1.0-10 ¹	15	20	24 V DC*	186 271
			2.5-10	20	28	24 V DC*	179 938
5/2 way Solenoid Valve servo-assisted,							
with manual override							
C	4	300	1.0-10 ¹	12	20	24 V DC*	300 817
			2.5-10	12	20	24 V DC*	204 710
2 x 3/2 way Solenoid Valve servo-assisted, normally closed, with manual override							

¹ Version with auxiliary pilot air

* 10% residual ripple allowed

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11 mm width/station: Type 0460 pilot valve



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

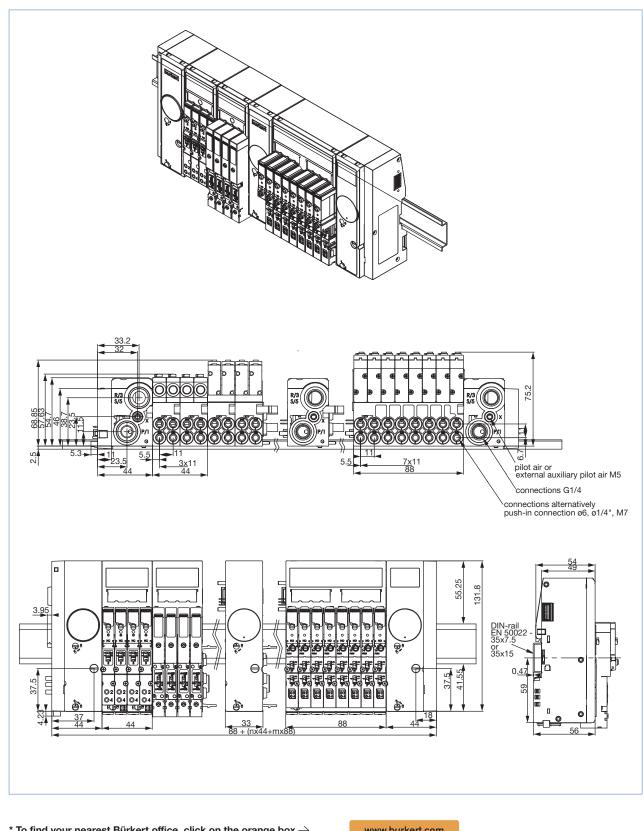
Technical data			
Body material	Aluminium		
Seal material	NBR		
Medium	compressed air, lubricated, oil free, dry; neutral gases (5µm filter recommended)		
Port connections	Flange		
Pneumatic module	MP11		
Supply port connection 1 (P), 3 (R), 5 (S)	G 1/4 NPT 1/4		
Service port 2 (A), 4 (B)	Push-in connection Ø 6 mm Push-in connection Ø 1/4" Threaded port M7		
Operating voltage	24 V/DC		
Electrical connection at the valve	Rectangular plug		
Manual override	standard		
Flow rate: QNn value air [I/min]	Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference		
Pressure values [bar]	Measured as overpressure to the atmospheric pressure		
Response times [ms]	Measured according to ISO 12238		

Ordering chart for valves

	Orifice	QNn value	Pressure	Nominal	Response times		Item no.
Circuit function	[mm]	air [l/min]	range [bar]	power [W]	Opening [ms]	Closing [ms]	
	2.5	200	2.0-7.0	1	15	15	154 183
5/2 way Solenoid Valve , with 2 pulse coils, with manual override							

burkert

Dimensions [mm]



* To find your nearest Bürkert office, click on the orange box \rightarrow

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In case of special application conditions, please consult for advice.

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