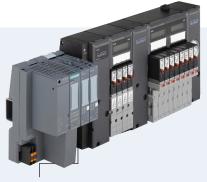


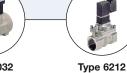
AirLINE SP - Electropneumatic Automation System



- Direct connection to the I/O-System SIMATIC ET 200SP
- Combination of fieldbus, pilot valves and I/O modules
- Easy diagnosis by LC-Display
- · Safety related shut-off of valves possible

Type 8647 can be combined with...











Type 8032 Switch

Solenoid valve

Process valve

Type 8692 Positioner

Type 0498

Double pilot controlled check valve

The pneumatic valve island, Type 8647 AirLINE SP, is a modular, electropneumatic automation system consisting of connection 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 and to control them via the ET 200SP. Pneumatically 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.

Technical data	Pilot valve Types 0460, 6524, 6525
Width/station	11 mm
Circuit function	C (3/2 way) D (3/2 way) H (5/2 way) H (5/2 way) impulse
Flow rate	300 l/min ¹⁾
Pressure range	Vac. up to 10 bar
Max. number of modules	Depending on application
Max. number valve functions	64
Fieldbus type	PROFIBUS DP, PROFINET I/O
Electrical modules	Siemens ET200SP
Operating voltage	24 V DC
Voltage tolerance	±10%
Residual ripple	2.4 V _{ss}
Nominal power per valve	0.8 W (0.5 W Nominal power acc. to 120 ms)
Rated current per valve	40 mA (28 mA Hold current after 120 ms) 20 mA (by use of Type 0460)
Temperatures Ambient Storage	0 to +55 °C -20 to +60 °C
Protection class	IP20 IP65 in closed field housing
Approvals	ATEX & IECEx, Zone 2 (in preparation)
Approvals 1) Maximum flow rate depending on valve	

 $^{^{\}rm 1)}\,{\rm Maximum}$ flow rate depending on valve function - see tables on pages 2 to 3.



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	3/2 and 5/2 way valve 2×3/2 way valv				
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 2×0.8 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 M2×28			
Installation	As required, preferably with actuator upright				
Flow rate: Q _{Nn} value air [I/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

Ordering chart for valves

Circuit function	Orifice [mm]	Q _{Nn} value air [l/min] ¹⁾	Pressure	Response times		Voltage/	
			range [bar]	Opening [ms]	Closing [ms]	Frequency [V/Hz]	Article no.
C 2(A)	4	300	Vac7	15	20	24 V DC*	186258 📜
12 12			1-102)	15	20	24 V DC*	186257 📜
1(P) 3(R)			2.5-10	15	2	24 V DC*	184043 🚎
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*	184400 📜
10 PT T W 1(P) 3(R)							
3/2 way Solenoid Valve direct-acting,							
normally open, with manual override							
H 4 2	4	300	1.0 - 102)	15	20	24 V DC*	186271 📜
14 M			2.5-10	20	28	24 V DC*	179938 💬
5/2 way Solenoid Valve servo-assisted,							
with manual override							
С	4	300	1.0 - 10 ²⁾	12	20	24 V DC*	300817 📜
12 14 14 15			2.5-10	12	20	24 V DC*	204710 🚎
2×3/2 way Solenoid Valve servo-assisted, normally closed, with manual override							

 $^{^{\}scriptsize 1)}$ With integrated HotSwap and/or non-return function, the flow rate is reduced.

²⁾ Version with auxiliary pilot air * 10 % residual ripple allowed

burkert

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.

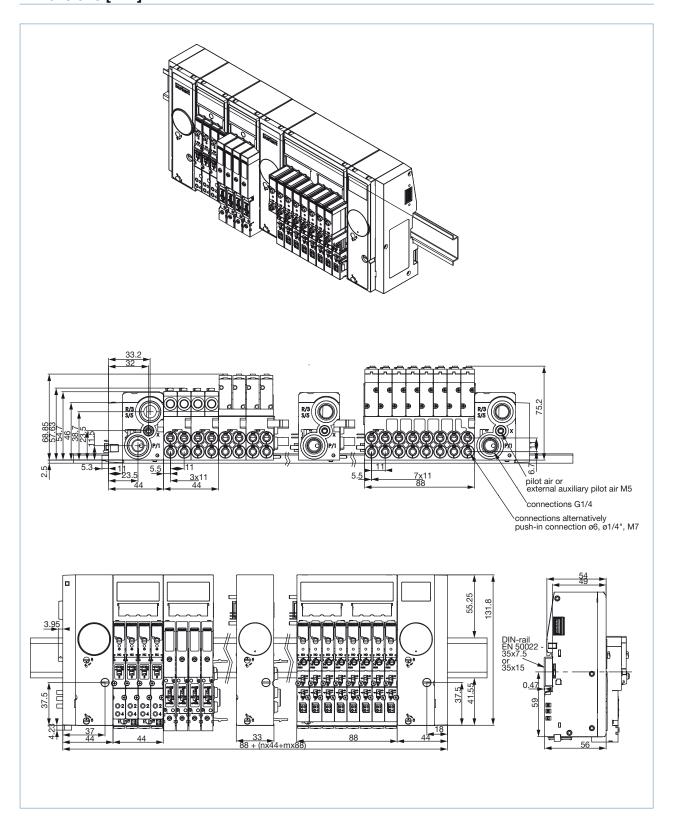
Technical data	
Body material	Aluminium
Seal material	NBR
Medium	compressed air, lubricated, oil free, dry; neutral gases (5µm filter recommended)
Port connections	Flange
Pneumatic module	MP11
Supply port connection 1 (P), 3 (R), 5 (S)	G ¼ NPT ¼
Service port 2 (A), 4 (B)	Push-in connection Ø 6 mm Push-in connection Ø ¼" Threaded port M7
Operating voltage	24 V DC
Electrical connection at the valve	Rectangular plug
Manual override	standard
Flow rate: Q _{Nn} 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	Q _{Nn} value	Pressure	Nominal	Response times		Article no.
Circuit function	[mm]	air [l/min]	range [bar]	power [W]	Opening [ms]	Closing [ms]	
H 14 2 12 12 5 11 3	2.5	200	2.0-7.0	1	15	15	154183 👾
5/2 way Solenoid Valve , with 2 pulse coils, with manual override							



Dimensions [mm]



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

www.burkert.com

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

Subject to alterations
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