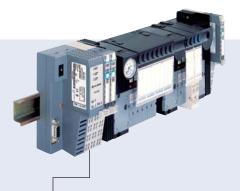


AirLINE and AirLINE Quick electrical/pneumatic **Automation System**



Fully compatible with Rockwell Point I/O System

- Combination of Fieldbus, pilot valves and I/O modules
- higher flexibility in the control cabinet with AirLINE Quick
- Compact design
- High flow rate value



Type 8644 can be combined with...

Type 8032 Switch



Type 6212 Solenoid valve



Type 2012 Process valve



Type 8630 Valve controller



Type 0498 Double pilot controlled check valve

The AirLINE System integrates high performance solenoid pilot valves, remote electronic I/O and fieldbus communication into a process actuation and control system that is both compact and extremely flexible. Its modular design allows fully customized, pre-mounted and tested solutions

to exactly meet all application needs including the integration of a local Mini PLC. Due to the full electronic and mechanical integration, the valve block can be added without the need of any tools or wiring.

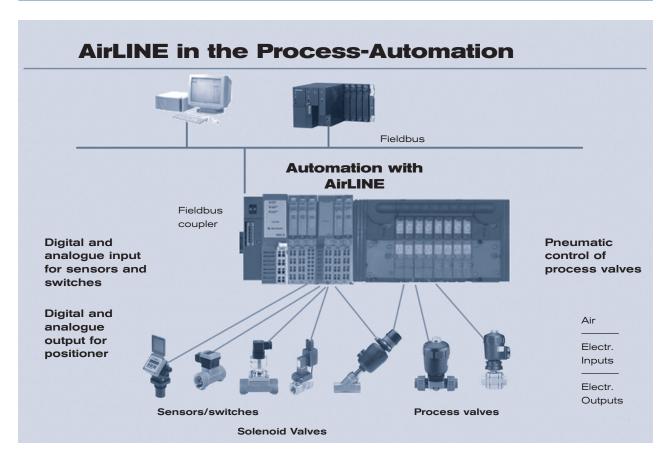
Technical data	Pilot va	Ive types
	0460, 6524, 6525	0461, 6526, 6527
width/station	11 mm	16.5 mm
Circuit function	C (3/2-way) D (3/2-way) H (5/2-way) H (5/2) impulse L (5/3) in middle position all ports closed N (5/3) in middle position all ports vented 300 l/min (200 l/min for functions H impulse, L and N)	C (3/2-way) D (3/2-way) H (5/2-way) H (5/2) impulse L (5/3) in middle position all ports open N (5/3) in middle position all ports vented
Pressure range	Vac. up to 10 bar	Vac. up to 10 bar
module types	2x and 8x (optional integrated check valves and p-shut-off-valve)	2x and 4x (integrated check valve optional) combination of 11mm-modules (3 valves) and 16,5mm- modules is possible.
Max. number of modules	13	13
Max. number of valves	64 (by use of Type 0460 & Type 6524 2 x 3/2-way valve: 32)	32 (by use of Type 0461: 24)
pneumatic intermediate supply	necessary after 24 valve functions; with 2 x 3/2-way valve: necessary after 16 valve functions	necessary after 16 valve functions
Fieldbus type	DeviceNet, EtherNet/IP, PROFIBUS DP	DeviceNet, EtherNet/IP, PROFIBUS DP
Electrical modules	Rockwell Point I/O	Rockwell Point I/O
Digital modules	2 or 4 inputs 2 or 4 outputs, others on request	2 or 4 inputs 2 or 4 outputs, others on request
Analogue modules	2 or 4 inputs (0-10 V, 0-20 mA, 4-20 mA, RTD, TC) 2 outputs (0-10 V, 0-20 mA, 4-20 mA) others on request	2 or 4 inputs (0-10 V, 0-20 mA, 4-20 mA, RTD, TC) 2 outputs (0-10 V, 0-20 mA, 4-20 mA) others on request
Operating voltage	24 V/DC	24 V/DC
Voltage tolerance	+20%/-15% (by use of Type 0460: ±10%)	+20%/-15% (by use of Type 0461: ±10%)

to be continued on page 2



Technical data	Pilot valve types					
	0460, 6524, 6525	0461, 6526, 6527				
Ripple	1 Vss	1 Vss				
Nominal power per valve	1 W (0.5 W nominal power after 120 ms)	2 W (1 W nominal power after 120 ms)				
Rated current per valve	43 mA (28 mA holding current after 120 ms) 41 mA (by use of Type 0460)	85 mA (52 mA holding current after 120 ms) 41 mA (by use of Type 0461)				
Temperatures Environment Storage	0 to +55°C (by use of Type 0460: 0 to +50°C) -20 to +60°C	0 to +55°C (by use of Type 0461: 0 to +50°C) -20 to +60°C				
Protection class	IP20 IP65 in closed field housing	IP20 IP65 in closed field housing				
Approvals	on request	on request				

Application example



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11mm 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-way valve	2 x 3/2-way valve				
Body material	PA (Polyamide)					
seal materials	FPM, NBR and PUR					
Medium	lubricated and non lubricate neutral gases (5 µm-Filter)	d dry compressed air;				
Port connections	Flange for MP11					
Pneumatikmodule	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 with reduction of power					
Duty cycle	Continuous operation (1000	% ED)				
Electr. connection on 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 x 28				
Installation	As required, preferably with actuator upright					
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]:	Overpressure with respect to atmospheric pressure					
Response times [ms]:	Measured according to ISC	12238				

^{* 10%} residual ripple allowed

		_	e B	Response times			
Control	Orifice [mm]	QNn value air [i/min]	Pressure range [bar]	Opening [ms]	Closing [ms]	Voltage/ Frequency [V/Hz]	Item no.
c 2 W10	4	300	Vac7	15	20	24 V DC *	186 258
12 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1-10 1)	15	20	24 V DC *	186 257
3/2-way valve, pilot-controlled, currentless Port 2 decreased			2,5-10	15	28	24 V DC *	184 043
3/2-way valve, pilot-controlled, currentless Port 2 pressurised			2,5-10	15	28	24 V DC *	184 400
H 4 2 14 17 12	4	300	1,0-10 1)	15	20	24 V DC *	186 271
5/2-way valve, pilot-controlled, currentless Port 1 connected to port 2, port 4 exhausted			2, 5-10	20	28	24 V DC *	179 938
С	4	300	1,0-10 1)	12	20	24 V DC *	186 259 ²⁾
3/2-way valve, pilot-controlled, currentless			2,5-10	12	20	24 V DC *	186 260 ²⁾
Port 2/4 decreased							

Version with auxiliary pilot air
 Version with integrated reduction of power consumption

^{* 10%} residual ripple allowed

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11 mm width/station: pilot valve 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 response times.

All valves are equipped with manual override as a standard.

Technical data	
Body material	Aluminium
Seal material	NBR
Medium	lubricated and non lubricated dry compressed air; 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 Push-in connection Ø 10 mm
Service port 2 (A), 4 (B)	Push-in Ø 6 mm Push-in 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

					Respon	se times	
Control function	Orifice [mm]	QNn value air [I/min]:	Pressure range [bar]	Nominal power [W]	OPENING [ms]	Closing [ms]	Item no.
H 14 12 12 5/2-way valve, pilot-controlled, Impulse version	2,5	200	2,0-7,0	1	15	15	154 183
14 W 12 W 12 5 1 3 5/3-way-valve, pilot-controlled, in middle position all ports locked	2,5	200	2,0-7,0	1	15	20	154 184
14 W T T T T W 12 5/3-way-valve, pilot-controlled, in middle position port 2 and 4 exhausted	2,5	200	2,0-7,0	1	15	20	154 185

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16,5mm width/station Solenoid Valves 6526 and 6527



The solenoid valve Types 6526 and 6527 consist of a pneumatic valve body fitted with Type 6106 rocker pilot 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	
Body material	PA (Polyamide)
seal materials	NBR
Medium	lubricated and non lubricated dry compressed air; neutral gases (10 µm filter)
Port connections	Flange for MP12
Pneumatic module	Type MP12 with G 1/8, Push-in connection Ø 8 mm NPT 1/8
Manual override	Standard
Operating voltage	24 V DC
Nominal power	2 W, 1W
Duty cycle	Continuous operation 100%
Electr. connection on valve	Tag connector acc. to DIN EN 175301-803 (previously DIN 43650) Form C
Mounting	with 2 screws M3 x 30
Installation	As required, preferably with actuator upright
Flow rate: QNn value air [I/min]:	Measured as overpressure to the atmospheric pressure 1 bar pressure difference
Pressure values [bar]	Measured as overpressure to the atmospheric pressure
Response times [ms]	Measured according to ISO 12238

		.=	eBi	ver	Respon	se times		
Control	Orifice [mm]	QNn value air [I/min]	Pressure range [bar]	Nominal power [W]	Opening [ms]	Closing [ms]³)	Voltage/ Frequency [V/Hz]	Item no.
C 2.	6	700	1,0 - 10 ¹⁾	2	20	12	24 V DC	156 842
12 10 10			1,0 - 101)	2	20	12	24 V DC	163 028 ²⁾
			2,0 - 10	2	20	12	24 V DC	156 318
1 3			2,0 - 10	2	20	12	24 V DC	158 944 ²⁾
3/2-way valve, pilot-controlled, cur-			2,0 - 8,0	1	20	17	24 V DC	156 840
rentless, Port 2 decreased			2,0 - 8,0	1	20	12	24 V DC	158 947 ²⁾
D 2.	6	700	1,0 - 10 ¹⁾	2	20	12	24 V DC	163 029 ²⁾
10 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			2,0 - 10	2	12	20	24 V DC	156 320
			2,0 - 10	2	20	12	24 V DC	158 946 ²⁾
1 3			2,0 - 8,0	1	17	20	24 V DC	156 841
3/2-way valve, pilot-controlled, currentless, Port 2 pressurized								
Н	6	700	1,0 - 101)	2	20	12	24 V DC	156 828
4,,2			1,0 - 10 ¹⁾	2	20	12	24 V DC	163 030 ²⁾
14 T T T T			2,0 - 10	2	20	12	24 V DC	156 337
51 3			2,0 - 10	2	20	12	24 V DC	158 942 ²⁾
5/2-way valve, pilot-controlled, cur-			2,0 - 8,0	1	20	17	24 V DC	156 827
rentless, Port 1 connected to port 2, port 4 exhausted			2,0 - 8,0	1	20	12	24 V DC	158 943 ²⁾

¹⁾ Version with auxiliary pilot air

²⁾ Electric connection with manual override.

³⁾ Closing time approx. 5 ms higher when used together with valve unit

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16,5 mm width/station: pilot valve Type 0461



The solenoid valve Type 0461 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.

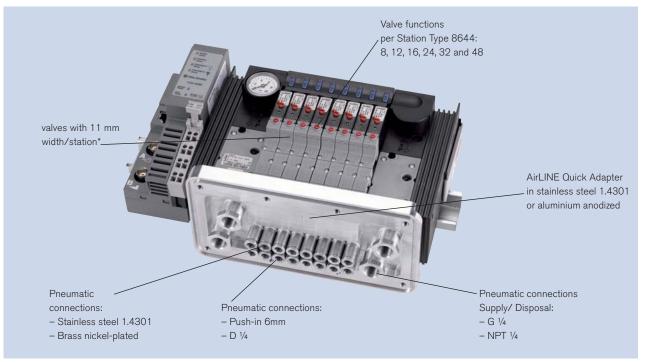
Technical data	
Body material	Aluminium
Seal material	NBR
Medium	lubricated and non lubricated dry compressed air; Neutral gases (10µm filter recommended)
Port connections	Flange
Pneumatic module	MP12
Supply port connection 1 (P), 3 (R), 5 (S)	G 3/8 NPT 3/8
Service port 2 (A), 4 (B)	G 1/8 NPT 1/8 Push-in connection Ø 8 mm
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

					Respor	ise times	
Circuit function	Orifice [mm]	QNn value air [I/min]:	Pressure range [bar]	Nominal power [W]	OPENING [ms]	Closing [ms]	Item no.
H 14 12 12 5'1'3 5/2-way valve, pilot-controlled,	6	500	2,5-7,0	1	20	30	156 766
Impulse version		F00	0.5.70	4	4.5	F0	150 000
14W 1 1 1 W12 513	6	500	2,5-7,0	1	15	50	156 767
5/3-way-valve, pilot-controlled, in middle position all ports locked							
N 14 W 12 W12 51 3	6	500	2,5-7,0	1	15	50	156 768
5/3-way-valve, pilot-controlled, in middle position port 2 and 4 exhausted							



AirLINE Quick

With AirLINE Quick you can reduce the amount of the components in the control cabinet considerably. With the AirLINE Quick Adapter the valve island is directly adapted on the control cabinet floor or wall.



^{*} Die Ventile des Typs 0460 können aufgrund der Baugrösse nicht mit AirLINE Quick verbaut werden.

Technical data

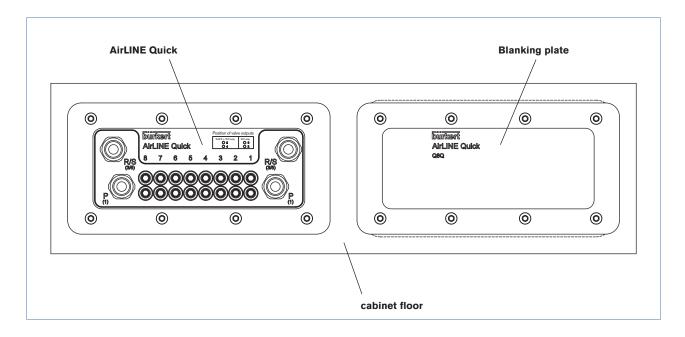
Technical data	
Material AirLINE Quick Adapter	stainless steel 1.4301 aluminium anodized
Material pneumatic connection	stainless steel 1.4301 Brass nickel-plated
Connection pneumatic feeding	G 1/4, NPT 1/4
Connection pneumatic service ports	Push-in D6 mm, D1/4"
Installation	Control cabinet wall Control cabinet floor
Valve functions per station	8, 12, 16, 24, 32 and 48



Additional accessories for AirLINE Quick

Blanking plates

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



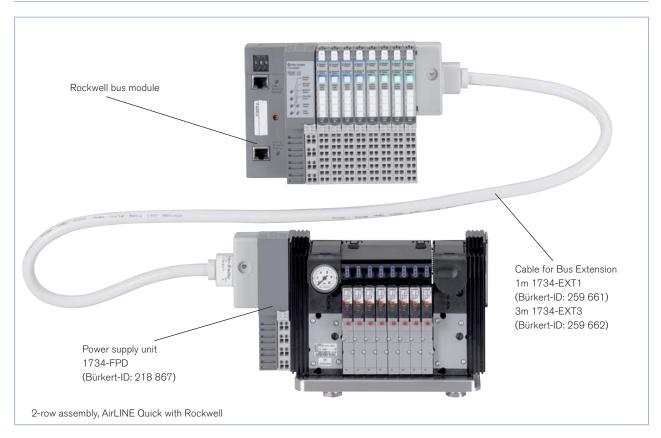
Ordering chart blanking plates

Material	Amount of valve slots	Item no.
	8	246 933
	12	246 929
Aluminium anodized	16	246 925
	16*	246 935
	24	246 927
	24*	246 931
	8	246 934
	12	246 930
Stainless steel	16	246 926
1.4301	16*	246 936
	24	246 928
	24*	246 932

^{*} with intermediate pneumatic supply module

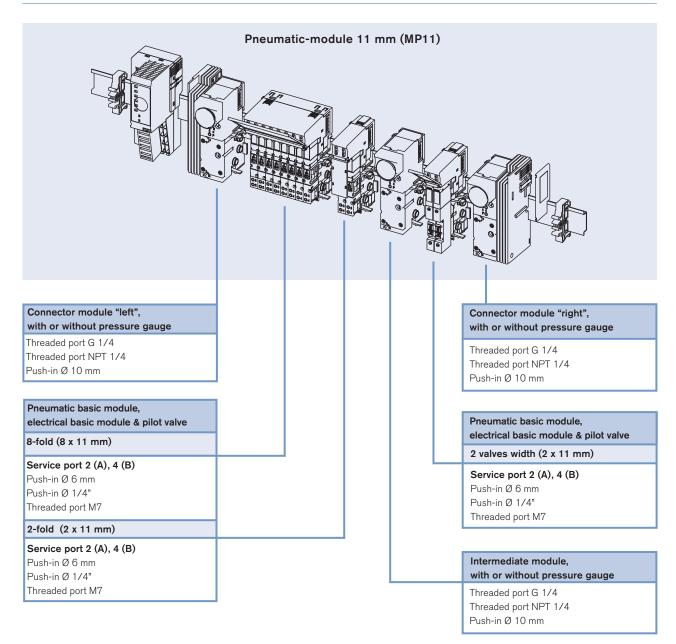
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Integration of AirLINE Quick in Rockwell Point I/O System



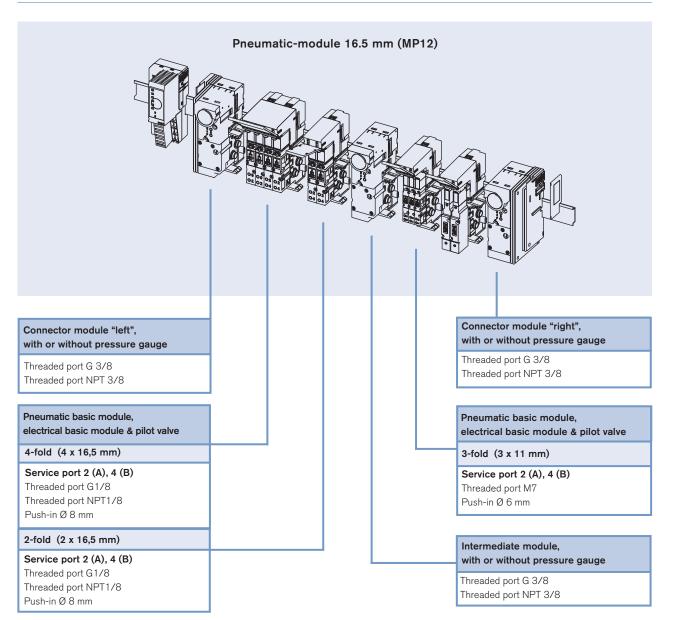
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Pneumatic module and electrical interfaces for modules series Rockwell



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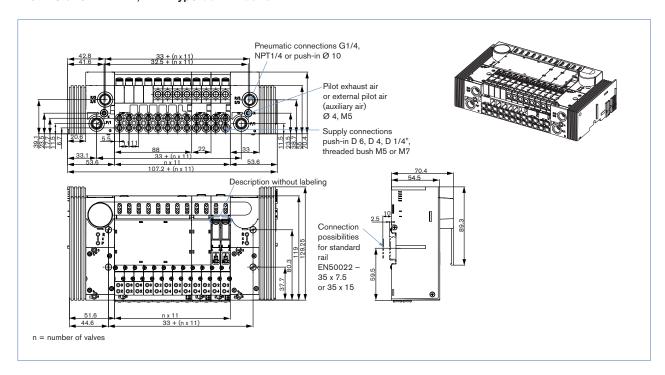
Pneumatic module and electrical interfaces for modules series Rockwell



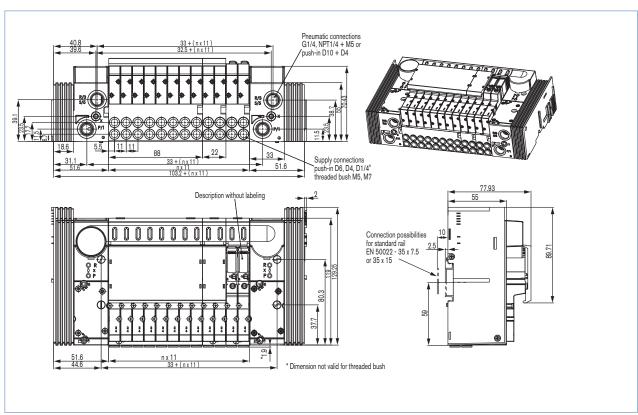
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Dimensions [mm]

width/station 11 mm, with Type 6524 / 6525



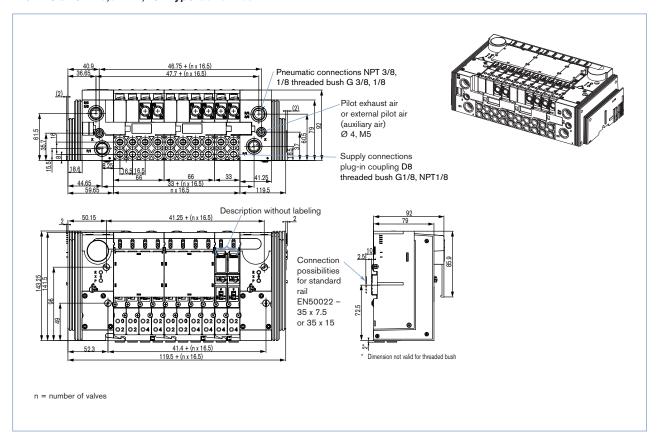
width/station 11 mm, with Type 6524 2 x 3/2-way valve





Dimensions [mm]

width/station 16,5 mm, for Type 6526 / 6527



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