



AirLINE and AirLINE Quick – electrical/pneumatic Automation System - WAGO

Remote I/O and Fieldbus modules

- Fully compatible with WAGO I/O System 750
- Combination of Fieldbus, pilot valves and I/O modules
- higher flexibility in the control cabinet with AirLINE Quick
- Compact design

Type 2012

Process valve

High flow rate value

Type 8644 can be combined with...

Type 8032 Switch



Solenoid valve





Valve controller

Type 1062 Position feedback

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.

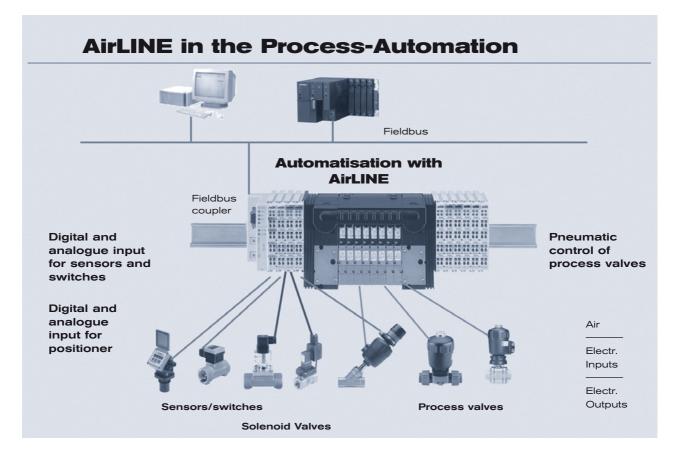
Technical data	Pilot	t valve
	0460, 6524, 6525	0461, 6526, 6527
width/station	11 mm	16.5 mm
Circuit function	C (3/2) D (3/2) H (5/2) H (5/2) impulse L (5/3) in middle position all ports closed N (5/3) in middle position all ports vented 300 l/min (200 l/min for functions H impulse, L and N)	C (3/2) D (3/2) H (5/2) H (5/2) impulse L (5/3) in middle position all ports open N (5/3) in middle position all ports vented 700 l/min (500 l/min for functions H impulse, L and N)
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 (optional integrated check valves) Combination of 11 mm modules (3 valves) and 16.5 mm modules is possible
Max. number of modules	Depending on application	Depending on application
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	PROFIBUS DP, INTERBUS, DeviceNet, CANopen, Ethernet, further on request	PROFIBUS DP, INTERBUS, DeviceNet, CANopen, Ethernet, further on request
Electrical modules	WAGO I/O System 750	WAGO I/O System 750
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

to be continued on page 2

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Technical data	Pilot va	lve types		
	0460, 6524, 6525	0461, 6526, 6527		
Analogue modules	2 or 4 inputs (0-10 V, 0-20 mA, 4-20 mA, RTD, TC)	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 outputs (0-10 V, 0-20 mA, 4-20 mA) others on request		
Operating voltage	24 V/DC	24 V/DC		
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)	85 mA (52 mA holding current after 120 ms)		
	41mA (by use of Type 0460)	41mA (by use of Type 0461)		
Temperatures				
Environment	0 to +55°C (by use of Type 0460: 0 to +50°C)	0 to +55°C (by use of Type 0461: 0 to +50°C)		
Storage	-20 to +60°C	-20 to +60°C		
Protection class	IP20	IP20		
	IP65 in closed field housing	IP65 in closed field housing		
Approvals	Zone 2	on request		

Application example





Configuration software

Matter Configuration Image and mark with the second se	AirLINE is a system of modular design which is precisely adapted to the specific requirements of the customer. Bürkert offers a software programme, the simple, precise generation of the required configuration of each AirLINE system. The Bürkert Configurator defines: • Number and types of valves • Intermediate module
	The results supplied by the Configurator: • the bill of material (including list prices) • Illustration • DXF - File • Documentation • Dimensions

For more information consult individual datasheets, downloadable at www.burkert.com

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11mm width/station Solenoid Valves 6524 and 6525



The solenoid valve Types 6524 and 6525 consist of a pneumatic valve body fitted with Type 6104 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	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)	ed dry compressed air;				
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 with reductio of power consumption					
Duty cycle	Continuous operation (100	% ED)				
Electr. connection on valve	Rectangular plug 2-pin grid spacing 5.08 mm 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 [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					

Ordering chart for valves

	air	nge	Respons	e times		
Orifice [mm]	QNn value a [[/min]	Pressure ra [bar]	Opening [ms]	Closing [ms]	Voltage/ Frequency [V/Hz]	ltem no.
4	300	Vac7	15	20	24 V DC *	186 258
		1-10 ¹⁾	15	20	24 V DC *	186 257
		2,5-10	15	28	24 V DC *	184 043
		2,5-10	15	28	24 V DC *	184 400
4	300	1,0-10 ¹⁾	15	20	24 V DC *	186 271
		2, 5-10	20	28	24 V DC *	179 938
4	300	1.0-10 ⁻¹⁾	12	20	24 V DC *	186 259 ²⁾
·		2,5-10	12	20	24 V DC *	186 260 2)
	4	4 300 4 300 4 300	$ \begin{array}{c} 4 \\ 300 \\ \hline 1-10^{1} \\ 2,5-10 \\ \hline 2,5-10 \\ \hline 4 \\ 300 \\ \hline 1,0-10^{1} \\ 2,5-10 \\ \hline 1,0-10^{1} \\ 2,5-10 \\ \hline 1,0-10^{1} \\ 1,0-10^{1} \\ \hline 1,0-10^{1} \\ \hline 1,0-10^{1} \\ \hline 1,0-10^{1} \\ \hline $	Bit of the second sec	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	iiii on iiii on iiii on iiiiiiiiiiiiiii

¹⁾ Version with auxiliary pilot air

²⁾ 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 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

Ordering chart for valves

					Respon	se times	
Control function	Orifice [mm]	QNn value air [l/min]:	Pressure range [bar]	Nominal power [W]	OPENING [ms]	Closing [ms]	ltem no.
H 14 5/2-way valve, pilot-controlled,	2,5	200	2,0-7,0	1	15	15	154 183
Impulse version L 14 M $14 M$ $14 M$ $12 M$ $12 M$ $12 M$ $12 M$ $12 M$ $12 M$ $13 M$	2,5	200	2,0-7,0	1	15	20	154 184
5/3-way-valve, pilot-controlled, in middle position all ports locked	2,5	200	2,0-7,0	1	15	20	154 185
5/3-way-valve, pilot-controlled, in middle position port 2 and 4 exhausted	_,-		_,, ,,				



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 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 [l/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

Ordering chart for valves

		. =	lge	ver	Respon	se times			
Control function	Orifice [mm]	QNn value air [l/min]	Pressure range [bar]	Nominal power [W]	Opening [ms]	Closing [ms] ³⁾	Voltage/ Frequency [V/Hz]	ltem no.	
c 2.	6	700	1,0 - 10 ¹⁾	2	20	12	24 V DC	156 842	
12			1,0 - 10 ¹⁾	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,				2,0 - 8,0	1	20	17	24 V DC	156 840
currentless, 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 12			2,0 - 10	2	12	20	24 V DC	156 320	
			2,0 - 10	2	20	12	24 V DC	158 946 ²⁾	
1-3-1			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 - 10 ¹⁾	2	20	12	24 V DC	156 828	
4, 2			1,0 - 10 ¹⁾	2	20	12	24 V DC	163 030 ²⁾	
14			2,0 - 10	2	20	12	24 V DC	156 337	
			2,0 - 10	2	20	12	24 V DC	158 942 ²⁾	
5/2-way valve, pilot-controlled,			2,0 - 8,0	1	20	17	24 V DC	156 827	
currentless, 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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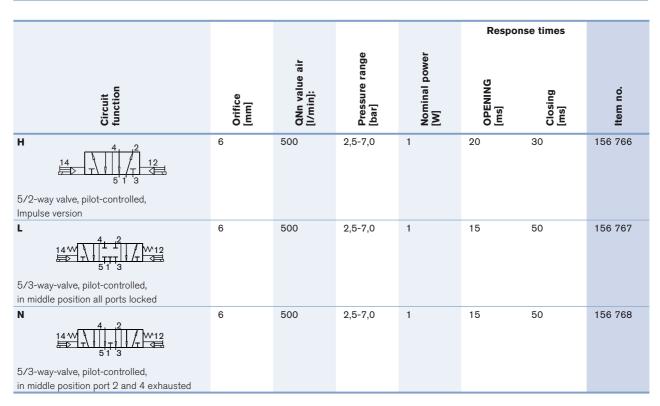
16,5 mm width/station: pilot valve Type 0461



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 [l/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

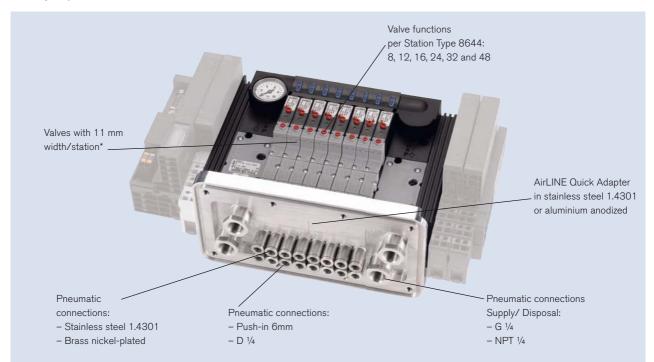
Ordering chart for valves





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.



* The valves of Type 0460 can not be installed with AirLINE Quick because of their size.

Technical data

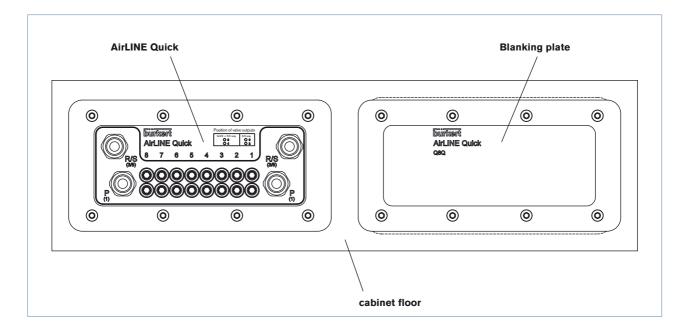
Technical data					
Material AirLINE Quick Adapter	stainless steel 1.4301 aluminium anodized				
Material pneumatic connection	stainless steel 1.4301 Brass nickel-plated				
Connection pneumatic feeding	G 1/4, NPT 1/4				
Connection pneumatic service ports	Push-in D6 mm, D1/4"				
Installation	Control 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.



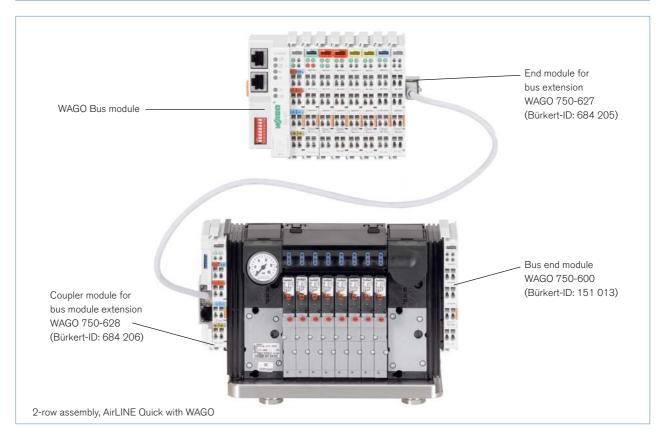
Ordering chart blanking plates

Material	Amount of valve slots	Item no.
	8	246 933
	12	246 929
A housing in the second second	16	246 925
Aluminium anodized	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

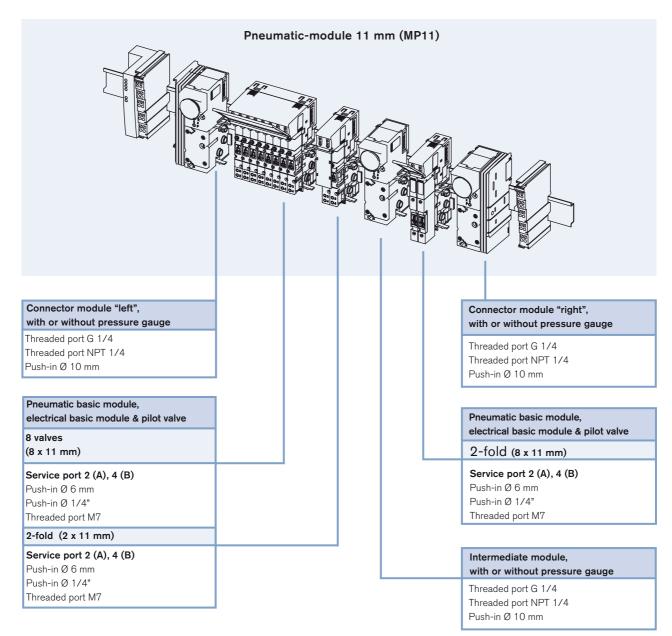


Integration of AirLINE Quick in WAGO I/O System 750



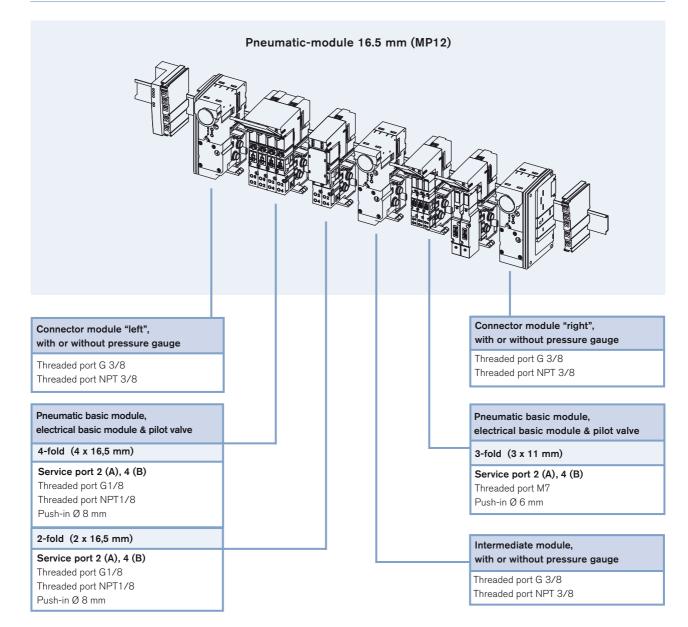


Pneumatic module and electrical interfaces for modules series 750 WAGO





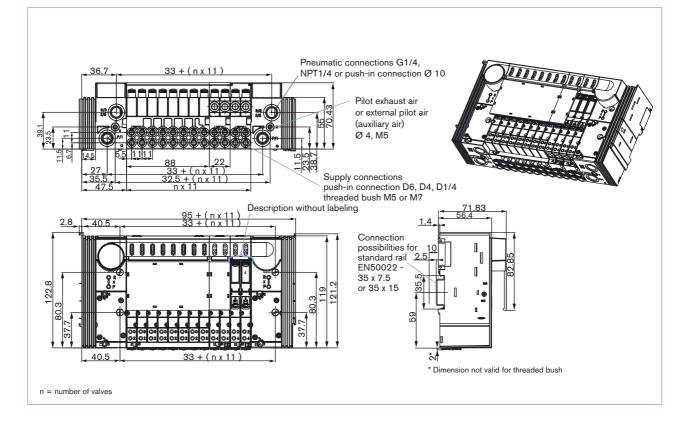
Pneumatic module and electrical interfaces for modules series 750 WAGO



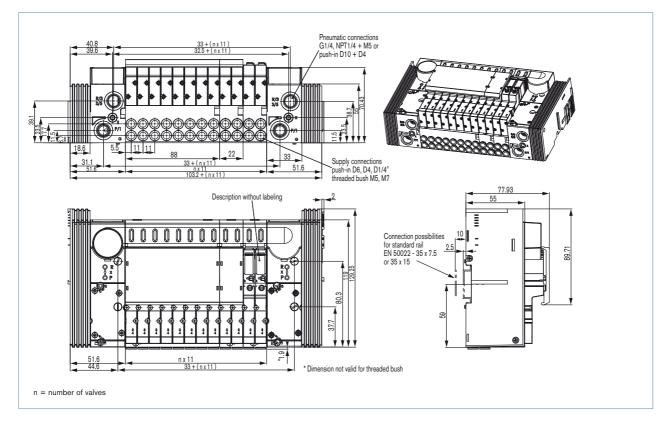
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Dimensions [mm]

width/station 11 mm, with Type 6524 / 6525



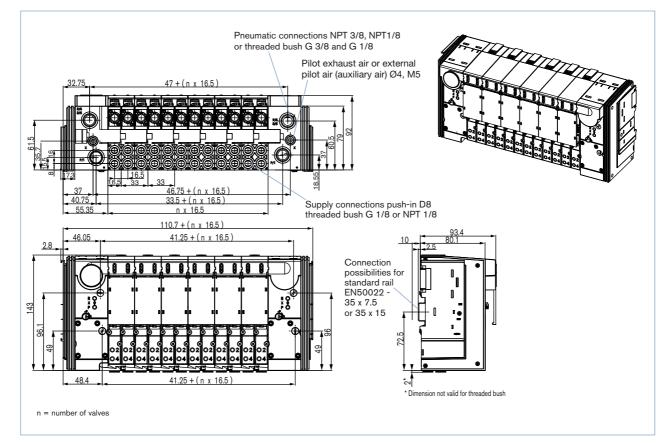
width/station 11 mm, with Type 6524 2 x 3/2-way valve



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Dimensions [mm]

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



To find your nearest Bürkert facility, click on the orange box

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

We reserve the right to make technical changes without notice.

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