

AirLINE - The valve island optimized for process automation



- Compact design
- Diagnosis in cleartext at the LC-Display
- Process reliability with pneumatics functions
- Optimized for installation at the cabinet bottom

Type 8652 can be combined with...



Type 8905
Online Analysis System



Type ME43
Feldbus-Gateway



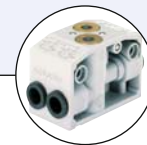
Type 8098
FLOWave SAW-Flowmeter



Type 2012
2/2 way globe valve



Type 8695
Control head



Type 0498
Double pilot controlled check valve

The pneumatic valve island type 8652 AirLINE is especially developed for applications in process automation. New diagnosis functions can be visualized at the LC-Display. Both cleartext as well as symbols show information which makes easy to relate the shown diagnosis. This saves time during installation and commissioning.

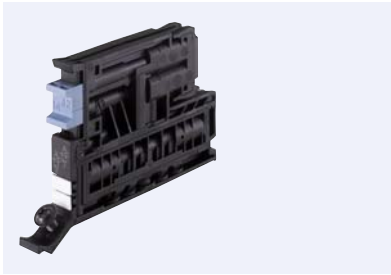
Furthermore the diagnosis information is also available in the PLC which enables a fast overview about the plant status. The hardware is optimized for installation at the cabinet bottom. Of course to fix the AirLINE at DIN rail is possible as well.

Besides important pneumatics functions ensure increased process safety. For instance the checkvalves make sure not to get an unplanned actuation due to pressure peaks.

| Technical data | |
|---|--|
| Width/station | 11 mm |
| Circuit functions | C 2 × 3/2 way (NC/NC) D 2 × 3/2 way (NO/NO) H (5/2 way) Z (5/2 way) impulse / bistable |
| Flow rate | 310 l/min ¹⁾ |
| Pressure range | Vac. up to 10 bar |
| Outlet port | Plug-in coupling diameter 6 mm, D1/4" |
| Connection air supply | Plug-in coupling diameter 10 mm, D3/8" |
| Max. number of modules | 3 (later up to 6 modules possible) |
| Number of valve positions per module | 4 valve positions (max. 8 valve functions) |
| Max. number valve functions | 24 (later up to 48 valve functions possible) |
| Communication interfaces | PROFIBUS DP Industrial Ethernet (PROFINET I/O, EtherNet IP, Modbus TCP, EtherCAT) CANopen / bÜS (when networking with Bürkert devices) |
| Electrical modules | Type ME43 |
| Operating voltage | 24 V DC |
| Voltage tolerance | ± 10 % |
| Nominal power per valve | 0.7 W (0.1 W after power reduction) |
| Rated current per valve | 29 mA (10 mA after power reduction) |
| Temperatures | |
| Ambient | - 10...+ 55 °C |
| Storage | - 10...+ 60 °C |
| Protection class | IP20 |
| Approvals | ATEX & IECEx, Zone 2 & Zone 22 (in preparation) FM Div2 Class 1 & Class 2 (in preparation) cULus Class 2 (in preparation) |

¹⁾ Maximum flow depending on the valve function – see chart on page 4.

Further technical data

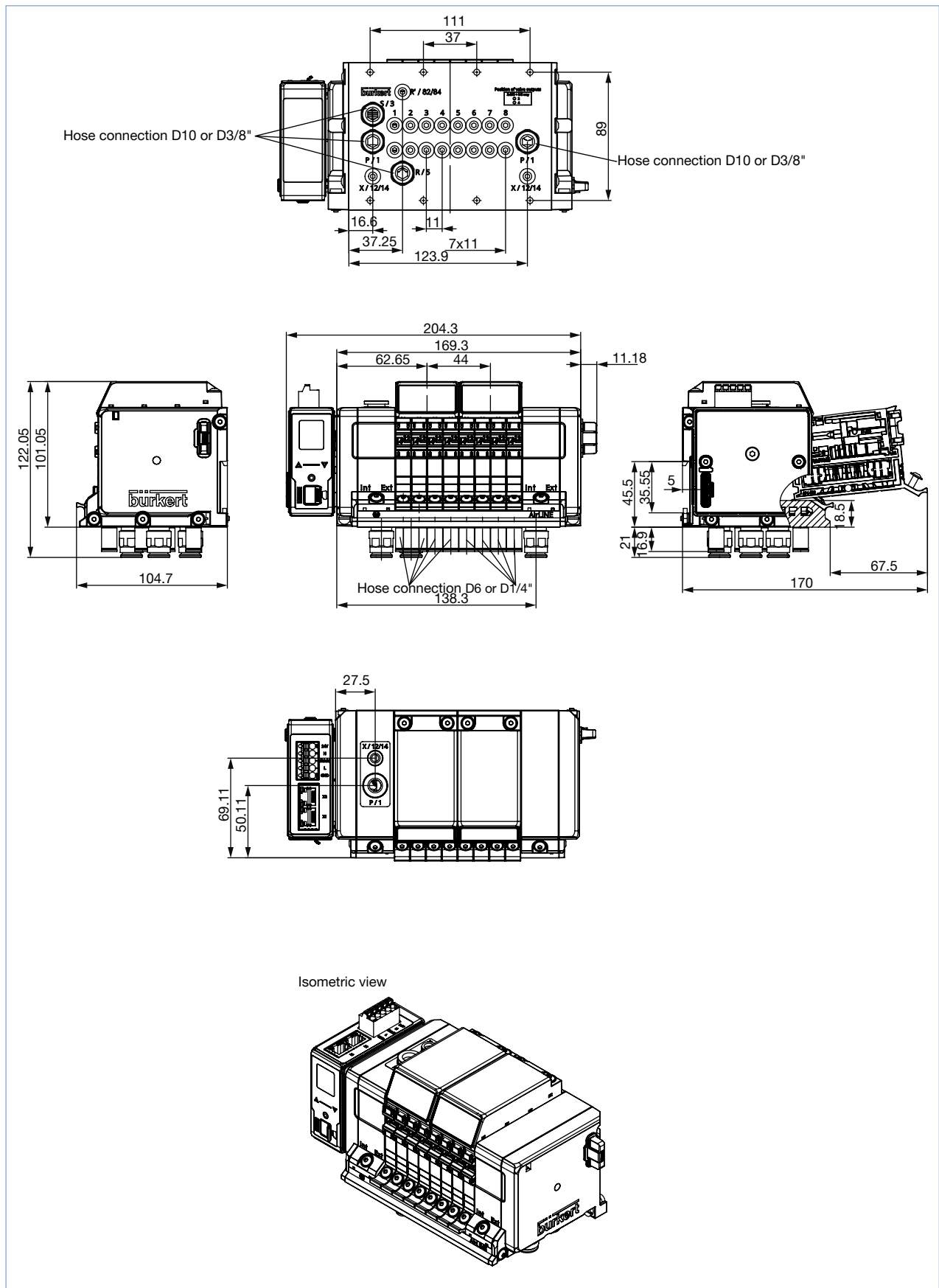


At the heart of AirLINE, Type 8652 are the pilot valves of Type 6534. They consist of a pilot valve and a booster valve. The 6164 pilot valve is the perfect base for the pilot valve 6534 with its above-average service life.



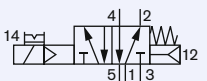
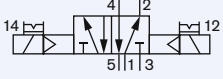
The booster is designed as a slide valve, ensuring maximum flexibility and reliability. The combination of the components allows the switching of high pressures with low power consumption and with short switching times. The pilot control valves are equipped with a manual operation as standard.

| Specification | |
|---|---|
| Body material | PA (Polyamide) |
| Seam materials | NBR and PUR |
| Medium | compressed air, oil free, dry; neutral gases (5 µm Filter recommended) |
| Port connection | Flange for MP15 |
| Connection air supply | Flange for MP15 |
| Manual override available / lockable | Yes / yes |
| Installation | As required |
| Mounting | 1 screw M4 × 10 |
| Flow rate: Q_{Nn} 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 |

Dimensions [mm]



Ordering chart

| Circuit function | Orifice [mm] | Q _{nn} value ²⁾ air [l/min] | Pressure range [bar] | Response times | | Voltage/Frequency [V/Hz] | Item no incl. screw |
|---|--------------|---|---------------------------------|----------------|--------------|--------------------------|---------------------|
| | | | | Opening [ms] | Closing [ms] | | |
| <p>C</p>  <p>2 x 3/2 way servo-controlled solenoid valve, normally closed, with manual override</p> | 4 | 270 l/min | Vac. 10 ¹⁾ 3...10 | 15 | 15 | 24 V DC | 301 374 |
| <p>D</p>  <p>2 x 3/2 way servo-controlled solenoid valve, normally open, with manual override</p> | 4 | 290 l/min | Vac. 10 ¹⁾ 3...10 | 15 | 15 | 24 V DC | 301 375 |
| <p>H</p>  <p>5/2 way servo-controlled solenoid valve, with manual override</p> | 4 | 290 l/min | Vac. 10 ¹⁾ 3...10 | 20 | 25 | 24 V DC | 301 376 |
| <p>Z</p>  <p>5/2 way solenoid valve, with 2 impulse coils and manual override</p> | 4 | 310 l/min | Vac. 10 ¹⁾ 3...10 | 20 | 25 | 24 V DC | 301 377 |

¹⁾ Separate control auxiliary air min. 3 bar

²⁾ With HotSwap function, ca. 3 % flow reduction

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

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