

Airfuse: "It is a legal requirement"!!

Moduflex AirGuard Protection System

Airfuse - protection of personnel, machinery and equipment, prevents airline whiplash on severed airlines.



Protect your most important assets: your employees and your equipment!

The AirGuard offers simple but efficient protection of a broken compressed-air hose. The air supply is immediately shut off by the AirGuard, should the volume of air exceed a set value. This "value" is factory preset and is set to allow normal air consumption when using air tools.

Should the air consumption exceed the set value, e.g. the air line is severed, then the internal piston instantly shuts off the main flow. An integral bleed hole allows some air to flow through. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.



Product Features:

- **Maintenance friendly**
Repair possible while plant is still operating.
- **Economic**
Competitive pricing.
- **Reliable and tamperproof**
No adjustment necessary.
- **Complies with EU current standard**
EN 983 - § 5.3.4.3.2.
- **Complies with the 2009 ISO4414 (5.4.5.11.1)**
- **Lightweight**
Compact size.
- **Compatible with all pneumatic systems**
- **Can be used as a flow blocker**
- **TUV Approval**
No. 01-02-0145
- **EU Registered Utility**
Model No. 0025 73 525



"When failure of a hose assembly of plastic piping constitutes a whiplash hazard, it shall be restrained or shielded by suitable means and/or an air fuse for compressed air shall be mounted"

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Function:

(P) is the inlet. Air passes the piston (1) and continues through the seat (3). The air flow, passing the piston, is slowed down by means of length wise grooves on the outer side of the piston. If the flow is too high, the air cannot pass the piston quickly enough, and the piston is forced against the spring (2) and towards the seat. The maximum flow is shown in the graph. If the value indicated is exceeded e.g. if the hose suddenly breaks - the air supply is automatically shut of. An integral bleed hole allows some air to flow through. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.

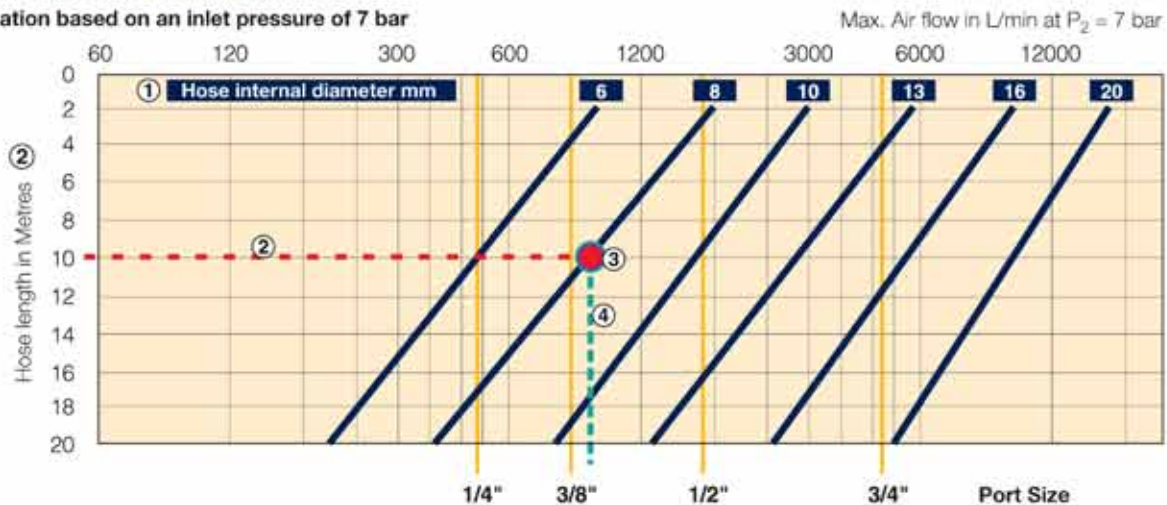


Weight and Dimensions (mm)

| Thread connection BSP | dimensions (mm) | | | Weight | Maximum inlet pressure | Temperature range | Material | P1 inlet thread | P2 outlet thread | Order Code |
|-----------------------|-----------------|----|----------|--------|------------------------|-----------------------------------|---|-----------------|------------------|------------|
| | A | B | SW | | | | | | | |
| 1/4" | 48 | - | 22 | 30 | 18 bar (255 PSIG) | -20°C to 80°C (-4°F to 176°F) | Housing: aluminium Piston: polyoxy- methylene | female | female | P4GAA12 |
| 1/4" | 58 | 49 | 22 | 36 | | | | male | female | P4GBA12 |
| 3/8" | 59 | - | 27 | 58 | | | | female | female | P4GAA13 |
| 3/8" | 71 | 59 | 27 | 62 | | | | male | female | P4GBA13 |
| 1/2" | 65 | - | 30 | 78 | | | | female | female | P4GAA14 |
| 1/2" | 80 | 65 | 30 | 85 | | | | male | female | P4GBA14 |
| 3/4" | 76 | - | 30 / 36* | 107 | 35 bar (500 PSIG) | -20°C to 120°C (-4°F to 248°F) | Housing: aluminium Piston: aluminium | female | female | P4GAA16 |
| 1" | 100 | - | 41 / 50* | 300 | | | | female | female | P4GAA18 |
| 2" | 130 | - | 70 / 80* | 775 | | | | female | female | P4GAA1C |
| | | | | | | | | | | |

General Selection Guide

Information based on an inlet pressure of 7 bar



- Determine the internal diameter of the hose, tube or pipe being used (1) (see specification Hose-internal Diameter in blue box, blue diagonal line).
- Determine the length of the hose, tube or pipe (2) (Hose length in meters).
- Define the intersection of point a and b, and mark a vertical line downwards. (3) - (4) (In the example the red/green dot and the green dashed line).
- The next vertical yellow line, left of the intersection line (4) (example: green dashed) tells the correct Airguard size (in inches).
- Important: Every flow value to the right of the respective vertical line (yellow) would activate the Airguard in case of a bursting hose, pipe or tube. All Airguard sizes right of the intersection line (green) are too big and will not close up.
- Example:** Which air fuse should be used for a hose, pipe or tube bearing 8 mm inner diameter and 10 meters of length - follow the 10 meter line (red (2)) to the intersection point (red/green dot (3)). Now the next left yellow line marks the correct size.
- Result:** The correct size in our example is the Airguard 3/8"

Note: The above selection chart is for guidance purpose only.

As with any protection device it is strongly recommended that tests are completed on installation.



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