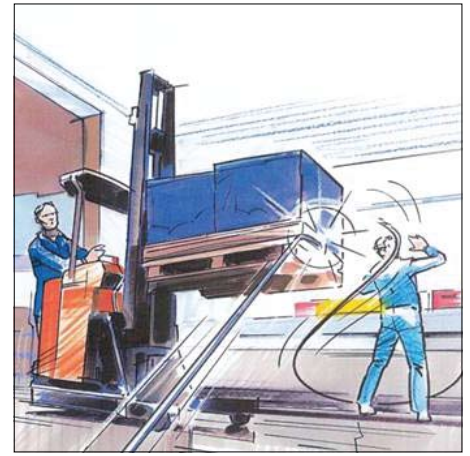


# AirGuard Protection System

Airfuse - protection of personnel, machinery and equipment



## Protect your most important assets: your employees and their 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 exceeds 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.



## Contact Information:

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<http://www.parker.com/pneu>



## Product Features:

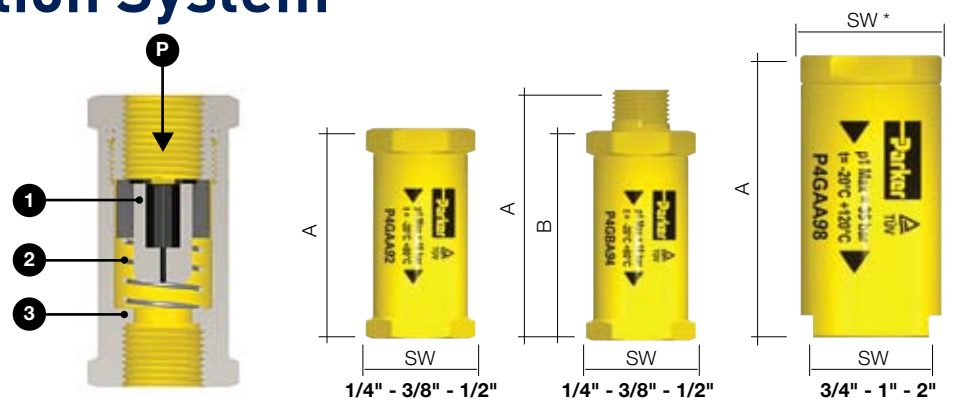
- **Maintenance Friendly**  
Repair possible while plant is still operating.
- **Economic**  
Competitive pricing.
- **Complies with EU Standard**  
EN 983 - § 5.3.4.3.2.
- **Reliable and Tamperproof**  
No adjustment necessary.
- **Complies with ISO Standard**  
4414 - § 5.4.5.11.1
- **Complies with MSHA Regulation**  
30CFR 56.13021, 57.13021 and 57.1730
- **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
- **Complies with OSHA Regulation Standard**  
29CFR 1926.302 (Partial)

ENGINEERING YOUR SUCCESS.

# AirGuard Protection System

## 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 off. 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.



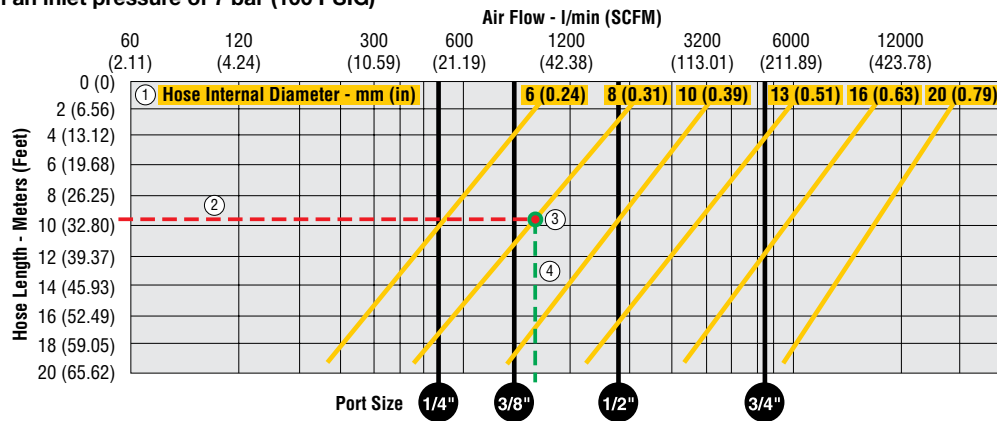
## Weight and Dimensions metric (imperial)

Thread Connection	Dimensions mm (inch)			Weight g (oz.)	Max. Inlet Pressure	Temp. Range	Material	P1 Inlet Thread	P2 Outlet Thread	Part Number NPT	Part Number BSP
	A	B	SW								
1/4"	48 (1.89)	-	22 (.87)	30 (1.06)	(18 bar) 255 PSIG	-20°C to 80°C (-4°F to 176°F)	Housing: Aluminum Piston: Polyacetal	Female	Female	P4GAA92	P4GAA12*
1/4"	58 (2.28)	49 (1.93)	22 (.87)	36 (1.27)				Male	Female	P4GBA92	P4GBA12*
3/8"	59 (2.32)	-	28 (1.10)	58 (2.05)				Female	Female	P4GAA93	P4GAA13*
3/8"	71 (2.80)	59 (2.32)	28 (1.10)	62 (2.19)				Male	Female	P4GBA93	P4GBA13*
1/2"	65 (2.56)	-	31 (1.22)	78 (2.75)				Female	Female	P4GAA94	P4GAA14*
1/2"	80 (3.15)	65 (2.56)	31 (1.22)	85 (3.00)				Male	Female	P4GBA94	P4GBA14*
3/4"	76 (2.99)	-	30/36* (1.18/1.42*)	107 (3.77)	(35 bar) 500 PSIG	-20°C to 120°C (-4°F to 248°F)	Housing: Aluminum Piston: Aluminum	Female	Female	P4GAA96	P4GAA16*
1"	100 (3.94)	-	41/50* (1.61/1.97*)	300 (10.58)				Female	Female	P4GAA98	P4GAA18*
2"	130 (5.12)	-	70/80* (2.76/3.15*)	775 (27.34)				Female	Female	P4GAA9C	P4GAA1C*
								Female	Female	P4GAA9C	P4GAA1C*

\* Note: BSP Threads Available Upon Request.

## How to Select the Optimal Size of an AirGuard

Information based on an inlet pressure of 7 bar (100 PSIG)



- Determine the internal diameter of the hose, tube or pipe being used (1) (see specification Hose-internal Diameter in yellow box, yellow 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 black 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 (black) 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 black line marks the correct size.
- Result:** The correct size in our example is the AirGuard 3/8"

