

HoseGuard[®]

Compact Size – Maxi Benefits

– Airfuse – Protection of
Personnel, Machinery and
Equipment –

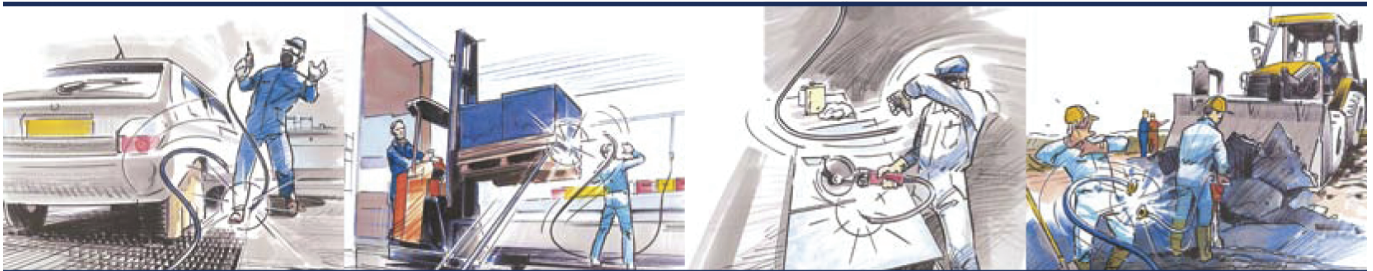


Protect your most important assets: your employees and their equipment!

Highlights:

- Protects personnel, machinery, and plant
- Maintenance friendly - repair possible while plant is still working
- Economic: competitive pricing, no superfluous repairs
- Complies with EU standard EN 983 - § 5.3.4.3.2
- Reliable and tamperproof, no adjustment necessary
- Light weight - compact size
- Compatible with all pneumatic systems
- Can be used as a flow blocker
- TÜV Approval No. 01-02-0145
- EU Registered Utility Model Nr. 0025 73 525
- USA/US Designpatent D 475, 126

This may happen without HoseGuard[®]:



HoseGuard[®]: it's about your safety!

HoseGuard®

1/4" 3/8" 1/2" 3/4" 1" 2"



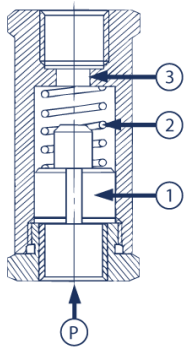
The HoseGuard® is a simple, but efficient protection of a broken compressed air hose. The air supply is shut off immediately by the HoseGuard®, should the volume of air exceed a set value. This “value” is preset by the manufacturer and is of course, set in a way that allows normal air consumption when using air tools. The HoseGuard® is made so that it ensures a constant bleeding through a tiny nozzle, making the HoseGuard® return to zero position, once the broken hose has been repaired. The HoseGuard® remains closed until the quick-connection for the main pipe has been disconnected.

Max Primary Passure: 18 bar 1/4" – 3/8" – 1/2" – 3/4"
 35 bar 1" – 2"
 Temperature: 1/4" – 1/2" -20 – +80°C
 3/4" – 2" -20 – +120°C
 Material: Housing Aluminium
 Other Parts: Nitrile Rubber, Plastic, stainless steel

Order no. key: 281A

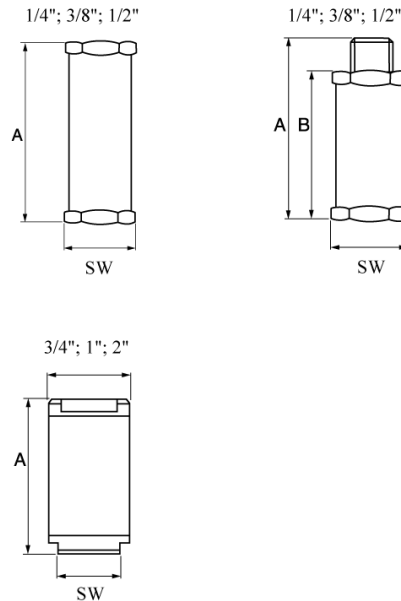


1. Thread type	0	BSP
	1	NPT
2. Thread connection	2	1/4"
	3	3/8"
	4	1/2"
	5	3/4"
	6	1"
	9	2"
3. Thread	1	Female/female
	2	Male/male

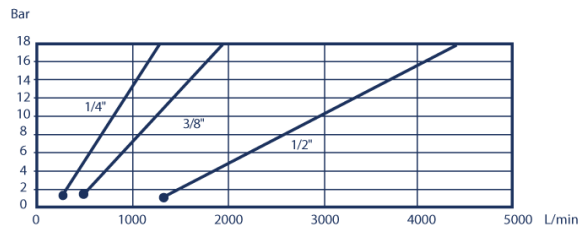


Function:

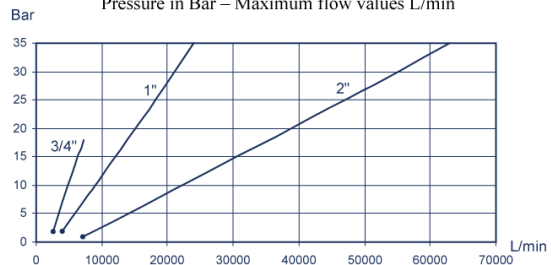
The drawing below: (P) is the inlet. The air passes the piston (1) and continues trough the seat (3). The air flow, passing the piston, is slowed down by means of some length-wise grooves on the outer side of the piston. If the flow is too high, the air cannot pass the piston quickly enough, and the piston would be pressed against the spring (2) underneath and towards the seat. The maximum flow is shown in the graphic. If the value indicated is exceeded – e.g. if the hose suddenly breaks – the air supply is automatically shut off.



Hoseguard® Thread dimensions 1/4", 3/8", 1/2"
 Pressure in Bar – Maximum flow values L/min



Hoseguard® Thread dimensions 3/4", 1", 2"
 Pressure in Bar – Maximum flow values L/min



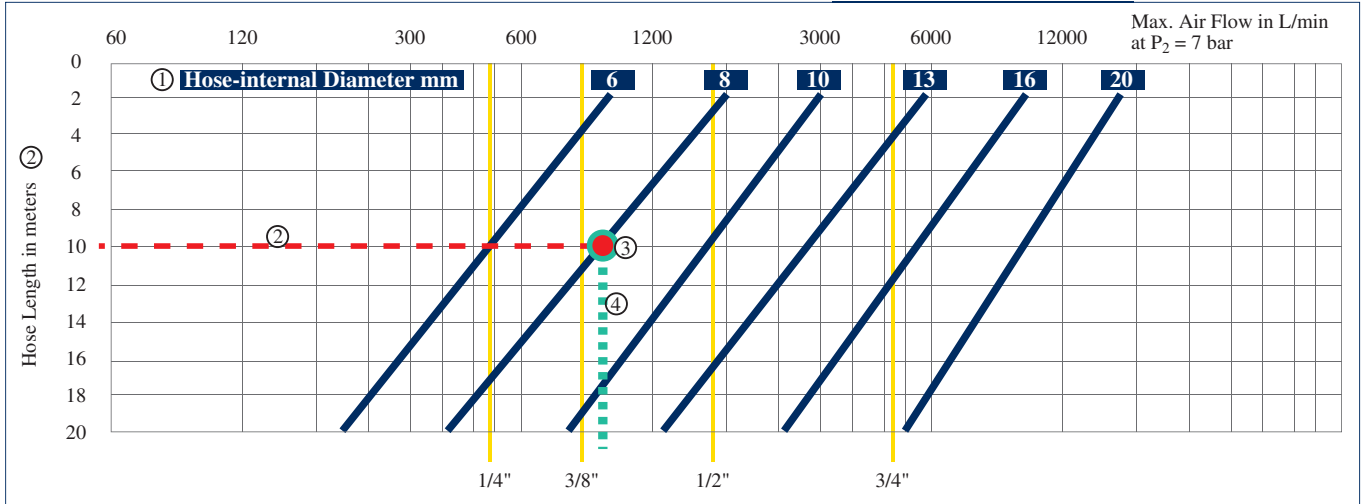
Thread connect.	Dimensions mm			Weight
	A	B	SW	
BSP				
1/4"	48	–	22	30 gr
1/4"	58	49	22	36 gr
3/8"	59	–	27	58 gr
3/8"	71	59	27	62 gr
1/2"	65	–	30	78 gr
1/2"	80	65	30	85 gr
3/4"	76	–	30/36	107 gr
1"	100	–	41/50	300 gr
2"	130	–	70/80	775 gr

HoseGuard® Air Fuse
for Compressed Air systems



Proof No. 01-05-01-0145
EU D. Patent EU 002573525
US No. D 475, 126

How to select the optimal size of a HoseGuard® Air Fuse



- 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 ③ (example: green dashed) tells the correct HoseGuard® size (in Inches).
- Important: Every flow value to the right of the respective vertical line (yellow) would activate the HoseGuard® in case of a bursting hose, pipe or tube. All HoseGuard® 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 HoseGuard® 3/8".

CAUTION:

Before putting the system under pressure ALWAYS read the instructions for use carefully and test that the HoseGuard® operates correctly.

HoseGuard Air Fuse

Recommended Max. Length of Air Hoses (*) at 8 bar Pressure

Air Hose Inside Diameter in mm	HoseGuard Air Fuse Thread Dimension	Recommended Max. Length of an Air Hose in Metres	Flow Values at 8 bar pressure
			Ltrs./Min. - Scfm
6	1/4"	10	660 / 123
6	1/4" High Flow	10	1095/38,6
8	3/8"	10	1380/49
11	3/8"	20	1380/49
11	1/2"	10	3180/112
13	1/2"	15	3180/112
16	1/2"	25	3180/112
11	1/2" High Flow	10	to follow
13	1/2" High Flow	15	to follow
16	1/2" High Flow	25	to follow
19	3/4"	16	3992/141
25	3/4"	50	3992/141
19	3/4" High Flow	16	5190/183
25	3/4" High Flow	50	5190/183
25	1"	30	5185/182
32	1"	100	5185/182
25	1" High Flow	30	7588/268
32	1" High Flow	100	7588/268
50	2"	50	12915/456
64	2"	100	12915/456
50	2" High Flow	50	to follow
64	2" High Flow	100	to follow

(*) Lab-Tests reference values.