

# Exhaust Silencer

## DESCRIPTION

Exhaust silencer have been developed for efficient noise reduction from pneumatic valves and provide a safe working space at ventilation of large compressed air storages<sup>(1)</sup>.

## APPLICATIONS<sup>(2)</sup>

- Air Dryer
- Air Exhaust
- Vacuum pump
- Compressor
- Valve
- Pneumatic control devices

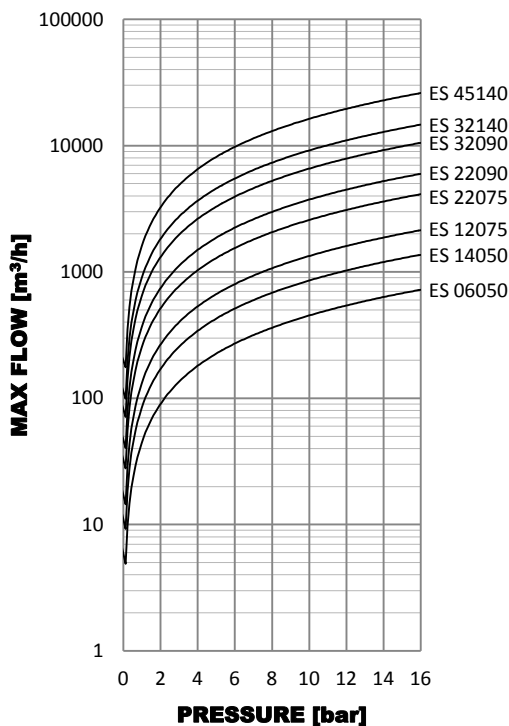
<sup>(1)</sup>For any other technical gas please contact us or your local dealer.

<sup>(2)</sup>Exhaust silencer can be used in variety of applications. For applications not listed please contact us or your local dealer.



## TECHNICAL SPECIFICATION

|                       |                |             |
|-----------------------|----------------|-------------|
| Operating temperature | 1,5 - 65 °C    | 35 - 149 °F |
| Operating pressure    | 0 - 16 bar (g) | 0 - 232 psi |
| Flow direction        | INSIDE to OUT  | -           |



## MATERIALS

|                  |                           |
|------------------|---------------------------|
| Absorption media | Acrylic fibers, cellulose |
| Joints           | Screws                    |
| Endcaps          | Aluminium                 |

## NOISE REDUCTION

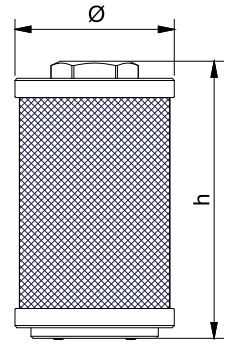
Silencer noise depends on different variables, like connection line, silencer size, flow rates. When connected to 7bar network, silencer usually reduces noise by 35dB. Typically noise does not exceed 85dB.

## ANTIFREEZE ABSORPTION MEDIA

Silencer cartridge is made of materials, resistant to freezing, which occurs when expanding compressed air. Inner layer provides high throughput that prevents surface saturated with ice.

**SIZES**

| SILENCER SIZE | DIMENSIONS [mm] | FLOW CAPACITY <sup>(1)</sup> [Nm <sup>3</sup> /h] | FLOW CAPACITY [scfm] | PIPE CONNECTION <sup>(2)</sup> |
|---------------|-----------------|---|----------------------|--------------------------------|
| ES 06050      | Ø=51;h=70       | 190   | 118                  | 1/4                            |
| ES 14050      | Ø=51;h=127      | 420   | 262                  | 3/8                            |
| ES 12075      | Ø=75;h=130      | 850   | 530                  | 1/2                            |
| ES 22075      | Ø=75;h=230      | 1820  | 1134                 | 3/4                            |
| ES 22090      | Ø=90;h=233      | 2310  | 1440                 | 1                              |
| ES 32090      | Ø=90;h=333      | 4550  | 2835                 | 1 1/4                          |
| ES 32140      | Ø=140;h=336     | 6370  | 3970                 | 1 1/2                          |
| ES 45140      | Ø=140;h=475     | 11200   | 6978                 | 2                              |



<sup>(1)</sup>Flow capacity at 7 bar(g), 20°C.

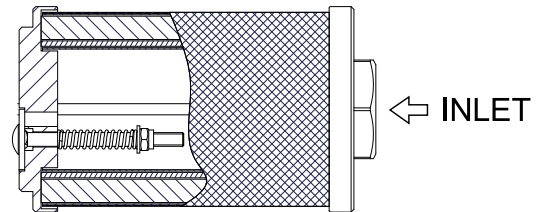
<sup>(2)</sup>Standard is interial BSP pipe conection, other pipe conection on request.

**TYPES**

| Model      | Description       |
|------------|-------------------|
| ES (size)  | basic version     |
| ES (size)B | with bypass valve |

**BYPASS VALVE**

As an option it is available silencer with a bypass valve. The bypass valve is designed to protect silencer from overload and is positioned on the other side of the inlet port. The valve opens when the pressure in the silencer exceeds the limited value. The bypass valve is triggered by a spring-loaded mechanism.



**MAINTENANCE**

Replace sound absorption element and other components from service kit at least every 12 months or follow the instructions for specific application. Once per year make a visual check of silencer housing and make sure there is no visual damage.

INFORMATION IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE

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|  | <p>Our quality management system is certified by BUREAU VERITAS in conformity with ISO 9001:2008<br/>Reg. number: 200285</p> |  |
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