

Main features and certifications

Silencers available in different type, materials, functions and threads. To apply at the exhaust to reduce noise. Supplied as standard in compliance to Reach and RoHS directives.



Silencers in plastic polymer

from page 4.151.10



Series of plastic polymer silencers. Available in different versions. Sizes from M5 to 1".



Sintered silencers

from page 4.153.10



Series of sintered silencers. Available in different shapes and types. Sizes from M5 to 1".



Metal silencers

from page 4.155.10



Series of metal silencers. Available in two versions: with aluminium body and noise absorbing cartridge (M, MR and MD types) and in zinc-plated steel with stainless steel cartridge (type MI). Sizes from 1/8" to 6".





Code key

| Type | Size ⁽¹⁾ | Color ⁽¹⁾ | Thread option ⁽²⁾ |
|------------|---------------------|----------------------|--|
| SPD | 18 | BL | NPT |
| SPD | M5 = M5x0,8 | BL = Blue | NPT = NPT thread (according to ANSI B 1.20.1) |
| SPF | 18 = 1/8" | NE = Black | |
| SPS | 14 = 1/4" | GI = Yellow | |
| AS19 | 38 = 3/8" | NT = White | |
| AS19 | 12 = 1/2" | | |
| AS22 | 34 = 3/4" | | |
| | 1 = 1" | | |
| | 04 = Ø 4 mm | | |
| | 06 = Ø 6 mm | | |
| | 08 = Ø 8 mm | | |
| | 10 = Ø 10 mm | | |
| | 12 = Ø 12 mm | | |

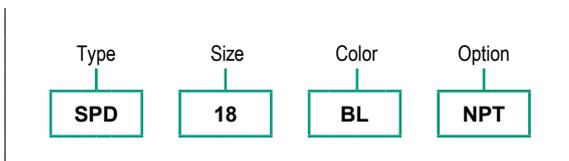
Notes

For standard materials see single product data sheets.

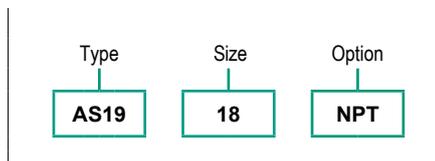
(1) For matching between type, thread or stem and color, see from page 4.151.11; for specific type, see the following pages.

(2) Available only for series SPF (sizes from 1/8" to 1/2") and series AS19 (sizes from 1/8" to 1").

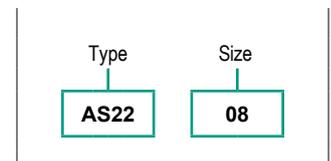
How to order type SPD and SPF



How to order type AS19 and SPS



How to order type AS22



Silencers in plastic polymer

| Type | | Parallel threads (BSP) | Metric threads | Stem Ø mm | Color | | | Data sheet and code page |
|------|--|----------------------------------|----------------|-----------------|--|---|---|--------------------------|
| SPD | Acetalic resin silencer, dynamic (self-cleaning) with BSP threads | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | - | - |  BL |  NE |  GL | 4.151.12 |
| SPF | Acetalic resin silencer, static (felt) with BSP threads | 1/8", 1/4", 3/8", 1/2" | - | - |  BL |  NE |  NT | 4.151.14 |
| | | 3/4", 1" | - | - |  BL |  NE |  GL | 4.151.16 |
| SPS | Polyacetal and polyethylene silencer, static, high flow rate, with BSP threads | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | - | - |  NE | | | 4.151.18 |
| AS19 | Polyethylene silencer, with BSP threads | 1/8", 1/4", 3/8", 1/2", 3/4", 1" | M5x0,8 | - |  | | | 4.151.20 |
| AS22 | Polyethylene silencers, with stem | - | - | 4, 6, 8, 10, 12 |  | | | 4.151.22 |

Silencers

In plastic polymer, series SPD



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Main features

| Type | Description | Symbol |
|---|--|---|
| SPD  | Acetalic resin silencer, dynamic and self-cleaning. The sound absorbing material, composed by moving elements, avoid the risk of obstructions maintaining constant in time the air flow. |  |



Technical data

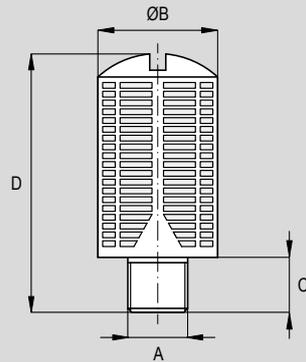
| Type | SPD | | | | | |
|-----------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|
| Size | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" |
| Fluid | Compressed air | | | | | |
| Pressure range | 0 ÷ 6 bar | | | | | |
| Temperature range | -10°C ÷ +70°C | | | | | |
| Parallel threads | UNI - ISO 228 / 1 (BSP) | | | | | |
| Mounting | Any position | | | | | |
| Filtering element porosity | - | | | | | |
| Flow at 6 bar with ΔP 1 bar | 700 NI/min. | 1.100 NI/min. | 2.900 NI/min. | 2.900 NI/min. | 5.000 NI/min. | 5.000 NI/min. |
| Noise at 6 bar from 1 mt. | < 90 dB | | | | | |

Standard materials

| Type | SPD |
|--------------------------|------------------------------|
| Body | Acetalic resin (POM) |
| Noise-absorbing material | Acetal resin (POM) granulate |

Standard dimensions

Type: **SPD**
1/8" ÷ 1"



| Code | Item | Symbol | Color | A | ØB | C | D | Weight (g) |
|--------|---------|---|--------|-------|------|-----|-------|------------|
| 016001 | SPD18BL |  | Blue | G1/8" | 15,5 | 6 | 32,5 | 3 |
| 016002 | SPD14BL | | Blue | G1/4" | 19,5 | 8 | 43 | 6,5 |
| 016003 | SPD38BL | | Blue | G3/8" | 24,5 | 11 | 58 | 14 |
| 016004 | SPD12BL | | Blue | G1/2" | 24,5 | 11 | 58 | 15,5 |
| 016005 | SPD34BL | | Blue | G3/4" | 48 | 18 | 115 | 107,5 |
| 016006 | SPD01BL | | Blue | G1" | 48 | 18 | 115 | 110,5 |
| 016011 | SPD18NE | | Black | G1/8" | 15,5 | 6 | 32,5 | 3 |
| 016012 | SPD14NE | | Black | G1/4" | 19,5 | 8 | 43 | 6,5 |
| 016013 | SPD38NE | | Black | G3/8" | 24,5 | 11 | 58 | 14 |
| 016014 | SPD12NE | | Black | G1/2" | 24,5 | 11 | 58 | 15,5 |
| 016015 | SPD34NE | | Black | G3/4" | 48 | 18 | 115 | 107,5 |
| 016016 | SPD01NE | | Black | G1" | 48 | 18 | 115 | 110,5 |
| 010001 | SPD18GI | | Yellow | G1/8" | 15,5 | 6 | 32,5 | 3 |
| 010002 | SPD14GI | | Yellow | G1/4" | 19,5 | 8 | 43 | 6,5 |
| 010003 | SPD38GI | | Yellow | G3/8" | 24,5 | 11 | 58 | 14 |
| 010004 | SPD12GI | | Yellow | G1/2" | 24,5 | 11 | 58 | 15,5 |
| 010005 | SPD34GI | Yellow | G3/4" | 48 | 18 | 115 | 107,5 | |
| 010006 | SPD01GI | Yellow | G1" | 48 | 18 | 115 | 110,5 | |

4 - ACCESSORIES

Silencers

In plastic polymer, series SPF

Main features

| Type | Description | Symbol |
|---|--|---|
| SPF  | Acetalic resin silencer, with noise-absorbing element in felt and metal net. |  |



Technical data

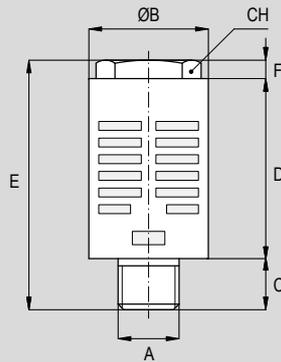
| Type | SPF | | | |
|-----------------------------|-------------------------|---------------|---------------|---------------|
| Size | 1/8" | 1/4" | 3/8" | 1/2" |
| Fluid | Compressed air | | | |
| Pressure range | 0 ÷ 6 bar | | | |
| Temperature range | -10°C ÷ +70°C | | | |
| Parallel threads | UNI - ISO 228 / 1 (BSP) | | | |
| Mounting | Any position | | | |
| Filtering element porosity | - | | | |
| Flow at 6 bar with ΔP 1 bar | 650 NI/min. | 1.050 NI/min. | 2.760 NI/min. | 2.760 NI/min. |
| Noise at 6 bar from 1 mt. | < 90 dB | | | |

Standard materials

| Type | SPF |
|--------------------------|--------------------------------|
| Body | Acetalic resin (POM) |
| Noise-absorbing material | Pressed felt and aluminium net |

Standard dimensions

Type: **SPF**
1/8" ÷ 1/2"

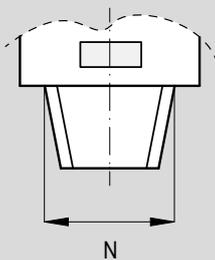


| Code | Item | Symbol | Color | A | ØB | C | CH | D | E | F | Weight (g) |
|--------|---------|--------|-------|-------|------|----|----|------|----|-----|------------|
| 017031 | SPF18BL | | Blue | G1/8" | 15,5 | 6 | 10 | 25,5 | 33 | 2,5 | 4 |
| 017032 | SPF14BL | | Blue | G1/4" | 19,5 | 8 | 12 | 32 | 43 | 3 | 6 |
| 017033 | SPF38BL | | Blue | G3/8" | 24,5 | 11 | 16 | 44 | 58 | 3 | 11,5 |
| 017034 | SPF12BL | | Blue | G1/2" | 24,5 | 11 | 16 | 44 | 58 | 3 | 13,5 |
| 010021 | SPF18NE | | Black | G1/8" | 15,5 | 6 | 10 | 25,5 | 33 | 2,5 | 4 |
| 010022 | SPF14NE | | Black | G1/4" | 19,5 | 8 | 12 | 32 | 43 | 3 | 6 |
| 010023 | SPF38NE | | Black | G3/8" | 24,5 | 11 | 16 | 44 | 58 | 3 | 11,5 |
| 010024 | SPF12NE | | Black | G1/2" | 24,5 | 11 | 16 | 44 | 58 | 3 | 13,5 |
| 017021 | SPF18NT | | White | G1/8" | 15,5 | 6 | 10 | 25,5 | 33 | 2,5 | 4 |
| 017022 | SPF14NT | | White | G1/4" | 19,5 | 8 | 12 | 32 | 43 | 3 | 6 |
| 017023 | SPF38NT | | White | G3/8" | 24,5 | 11 | 16 | 44 | 58 | 3 | 11,5 |
| 017024 | SPF12NT | | White | G1/2" | 24,5 | 11 | 16 | 44 | 58 | 3 | 13,5 |

4 - ACCESSORIES

Dimensions with NPT option

Type: **SPF..NPT**
1/8" ÷ 1/2"



| Code | Item | Symbol | N |
|------|------------|--------|---------------|
| * | SPF18..NPT | | 1/8" - 27 NPT |
| * | SPF14..NPT | | 1/4" - 18 NPT |
| * | SPF38..NPT | | 3/8" - 18 NPT |
| * | SPF12..NPT | | 1/2" - 14 NPT |

* For code please contact the sales department

Silencers

In plastic polymer, series SPF

Main features

| Type | Description | Symbol |
|------|--|---|
| SPF | Acetalic resin silencer, with noise-absorbing element in felt and metal net. |  |



Technical data

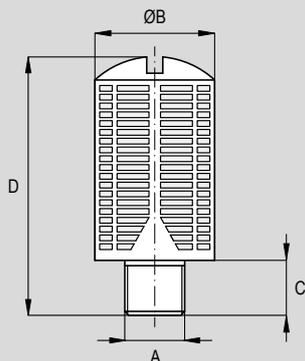
| | | |
|-----------------------------|-------------------------|----|
| Type | SPF | |
| Size | 3/4" | 1" |
| Fluid | Compressed air | |
| Pressure range | 0 ÷ 6 bar | |
| Temperature range | -10°C ÷ +70°C | |
| Parallel threads | UNI - ISO 228 / 1 (BSP) | |
| Mounting | Any position | |
| Filtering element porosity | - | |
| Flow at 6 bar with ΔP 1 bar | - | - |
| Noise at 6 bar from 1 mt. | < 90 dB | |

Standard materials

| | |
|--------------------------|--------------------------------|
| Type | SPF |
| Body | Acetalic resin (POM) |
| Noise-absorbing material | Pressed felt and aluminium net |

Standard dimensions

Type: **SPF**
3/4" ÷ 1"



| Code | Item | Symbol | Color | A | ØB | C | D | Weight (g) |
|--------|---------|--------|--------|-------|----|----|-----|------------|
| 017035 | SPF34BL | | Blue | G3/4" | 48 | 18 | 115 | 69,5 |
| 017036 | SPF01BL | | Blue | G1" | 48 | 18 | 115 | 72,5 |
| 010025 | SPF34NE | | Black | G3/4" | 48 | 18 | 115 | 69,5 |
| 010026 | SPF01NE | | Black | G1" | 48 | 18 | 115 | 72,5 |
| 017045 | SPF34GI | | Yellow | G3/4" | 48 | 18 | 115 | 69,5 |
| 017046 | SPF01GI | | Yellow | G1" | 48 | 18 | 115 | 72,5 |

Silencers

In plastic polymer, series SPS



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Main features

| Type | Description | Symbol |
|------|---|--------|
| SPS | Polyacetal silencer, static and high flow. The dimensions and the micro-porous polyethylene noise-absorbing grant high flow rates and low noise values. | |

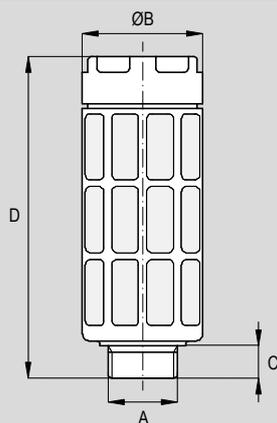
Technical data

| Type | SPS | | | | | |
|-----------------------------|-------------------------|---------------|---------------|----------------|----------------|----------------|
| Size | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" |
| Fluid | Compressed air | | | | | |
| Pressure range | 0 ÷ 10 bar | | | | | |
| Temperature range | -10°C ÷ +70°C | | | | | |
| Parallel threads | UNI - ISO 228 / 1 (BSP) | | | | | |
| Mounting | Any position | | | | | |
| Filtering element porosity | - | | | | | |
| Flow at 6 bar with ΔP 1 bar | 2.050 NI/min. | 3.400 NI/min. | 5.900 NI/min. | 10.600 NI/min. | 15.000 NI/min. | 19.900 NI/min. |
| Noise at 6 bar from 1 mt. | < 77 dB | < 77 dB | < 82 dB | < 80 dB | < 83 dB | < 84 dB |

Standard materials

| Type | SPS |
|--------------------------|--------------|
| Body | Polyacetal |
| Noise-absorbing material | Polyethylene |

Standard dimensions



Type: **SPS**
1/8" ÷ 1"

| Code | Item | Symbol | Color | A | ØB | C | D | Weight (g) |
|--------|---------|--------|-------|-------|------|------|-------|------------|
| 016171 | SPS18NE | | Black | G1/8" | 15,2 | 5,2 | 35,5 | 2 |
| 016172 | SPS14NE | | Black | G1/4" | 19,2 | 6,5 | 56,4 | 8 |
| 016173 | SPS38NE | | Black | G3/8" | 33,2 | 7 | 77,5 | 30 |
| 016174 | SPS12NE | | Black | G1/2" | 43 | 9 | 88 | 58 |
| 016175 | SPS34NE | | Black | G3/4" | 44,5 | 10,5 | 119,5 | 83 |
| 016176 | SPS01NE | | Black | G1" | 55 | 11,5 | 124,5 | 140 |

Silencers

In plastic polymer, series AS1

Main features

| Type | Description | Symbol |
|--|---|---|
| AS19  | Compact polyethylene silencer, with threaded connections. |  |



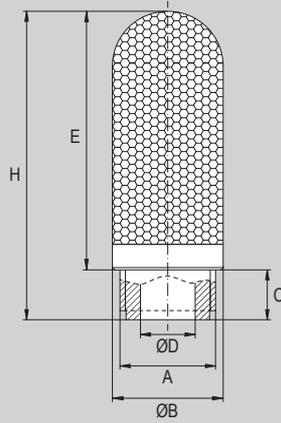
Technical data

| | | | | | | | |
|-----------------------------|-------------------------|---------------|---------------|---------------|---------------|---------------|----------------|
| Type | AS19 | | | | | | |
| Size | M5 | 1/8" | 1/4" | 3/8" | 1/2" | 3/4" | 1" |
| Fluid | Compressed air | | | | | | |
| Pressure range | 0 ÷ 10 bar | | | | | | |
| Temperature range | -20°C ÷ +80°C | | | | | | |
| Parallel threads | UNI - ISO 228 / 1 (BSP) | | | | | | |
| Metric threads | UNI EN ISO 965-1 | | | | | | |
| Mounting | Any position | | | | | | |
| Filtering element porosity | 50 µm | | | | | | |
| Flow at 6 bar with ΔP 1 bar | 381 NI/min. | 1.560 NI/min. | 3.447 NI/min. | 5.682 NI/min. | 7.142 NI/min. | 8.356 NI/min. | 13.329 NI/min. |
| Noise | - | 78 dB | 80 dB | 85 dB | 88 dB | - | - |
| Flow tolerance | ±10% | | | | | | |

Standard materials

| | |
|--------------------------|---------------------|
| Type | AS19 |
| Body | Polyethylene |
| Noise-absorbing material | Porous polyethylene |

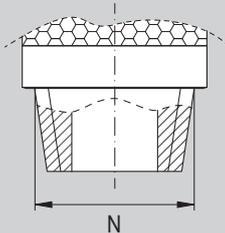
Standard dimensions



Type: **AS19**
M5 ÷ 1"

| Code | Item | Symbol | Color | A | ØB | C | ØD | E | H | Weight (g) |
|--------|--------|---|-------|--------|----|----|----|-----|-----|------------|
| 016108 | AS19M5 |  | - | M5x0,8 | 7 | 4 | 3 | 18 | 22 | - |
| 016103 | AS1918 | | - | G1/8" | 13 | 7 | 5 | 28 | 35 | - |
| 016102 | AS1914 | | - | G1/4" | 17 | 9 | 8 | 34 | 43 | - |
| 016104 | AS1938 | | - | G3/8" | 20 | 11 | 10 | 56 | 67 | - |
| 016105 | AS1912 | | - | G1/2" | 25 | 11 | 12 | 67 | 78 | - |
| 016106 | AS1934 | | - | G3/4" | 38 | 16 | 16 | 116 | 131 | - |
| 016107 | AS1901 | | - | G1" | 48 | 20 | 22 | 140 | 160 | - |

Dimensions with NPT option



Type: **AS19..NPT**
1/8" ÷ 1"

| Code | Item | Symbol | N |
|------|-----------|---|----------|
| * | AS1918NPT |  | 1/8" NPT |
| * | AS1914NPT | | 1/4" NPT |
| * | AS1938NPT | | 3/8" NPT |
| * | AS1912NPT | | 1/2" NPT |
| * | AS1934NPT | | 3/4" NPT |
| * | AS1901NPT | | 1" NPT |

* For code please contact the sales department

Silencers

In plastic polymer, series AS2

Main features

| Type | Description | Symbol |
|------|---|---|
| AS22 | Compact polyethylene silencer, with stem. |  |



Technical data

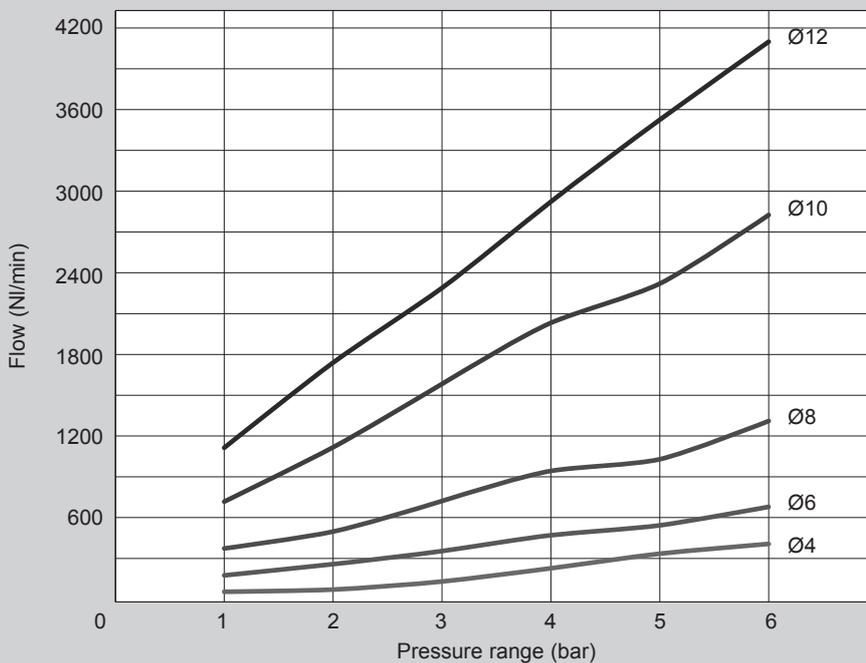
| | | | | | |
|------------------------------|----------------------|-------------|---------------|---------------|---------------|
| Type | AS22 | | | | |
| Size | Ø 4 | Ø 6 | Ø 8 | Ø 10 | Ø 12 |
| Fluid | Compressed air | | | | |
| Pressure range | 0 ÷ 10 bar | | | | |
| Temperature range | -20°C ÷ +80°C | | | | |
| Stem | For push-in fittings | | | | |
| Mounting | Any position | | | | |
| Filtering element porosity | 50 µm | | | | |
| Flow* at 6 bar with ΔP 1 bar | 380 NI/min. | 660 NI/min. | 1.310 NI/min. | 2.800 NI/min. | 4.100 NI/min. |
| Flow tolerance | ±10% | | | | |

*For further details refer to the table below

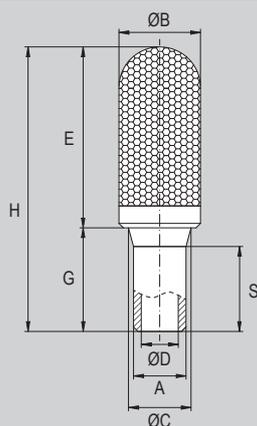
Standard materials

| | |
|--------------------------|---------------------|
| Type | AS22 |
| Body | Polyethylene |
| Noise-absorbing material | Porous polyethylene |

Flow diagram



Standard dimensions



Type: **AS22**
Ø 4 ÷ 12

| Code | Item | Symbol | Color | A | ØB | ØC | ØD | E | G | H | S | Weight (g) |
|--------|--------|--------|-------|----|----|----|----|----|----|----|----|------------|
| 016151 | AS2204 | | - | 4 | 7 | 5 | 3 | 16 | 16 | 32 | 15 | - |
| 016152 | AS2206 | | - | 6 | 13 | 8 | 4 | 25 | 21 | 46 | 17 | - |
| 016153 | AS2208 | | - | 8 | 14 | 10 | 5 | 22 | 22 | 44 | 18 | - |
| 016154 | AS2210 | | - | 10 | 16 | 13 | 7 | 31 | 27 | 58 | 23 | - |
| 016155 | AS2212 | | - | 12 | 19 | 15 | 9 | 54 | 29 | 83 | 25 | - |