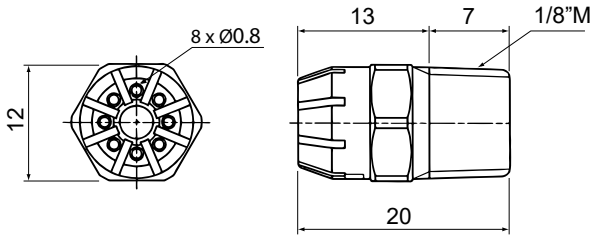
- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a high blowing capacity through its 8 orifices with a free passage diameter of 0.8 mm which generate an effective blow cone.
- Lightweight and compact design.
- Suitable for use with unfiltered air supply where impurities or particles could be observed.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of S316L stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Round blown 

Dimensions (mm)



Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
70	145	220

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/8” male

Weight
7 g

Strength of blowing*
2.3 N

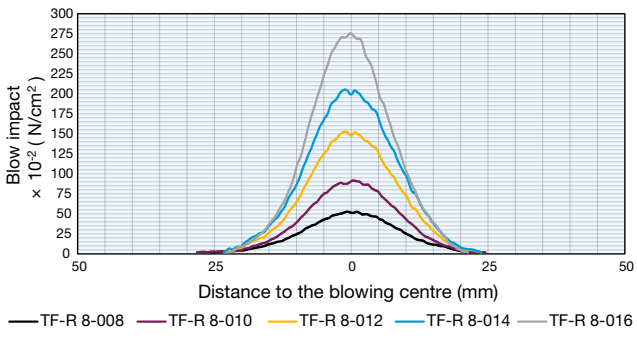
Air consumption*
220 ℓ/min, Normal

Level of noise*
77 dB(A)

Product code
1/8M TF-R 8-008 S316L-IN

* at 0.5 MPa (ca. 5 bar)

TF-R series power (0.5 MPa - ca. 5 bar)



- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a high blowing capacity through its 8 orifices with a free passage diameter of 1 mm which generate an effective blow cone.
- Lightweight and compact design.
- Suitable for use with unfiltered air supply where impurities or particles could be observed.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of S316L stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/8” - 1/4”
male

Weight
7 g (1/8”)
12 g (1/4”)

Strength of blowing*
3.7 N

Air consumption*
360 ℓ/min,
Normal

Level of noise*
83 dB(A)

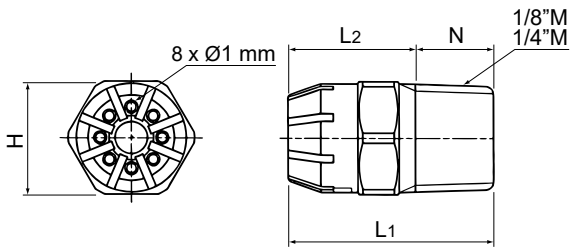
Product code
1/8M TF-R 8-010 S316L-IN
1/4M TF-R 8-010 S316L-IN

* at 0.5 MPa (ca. 5 bar)

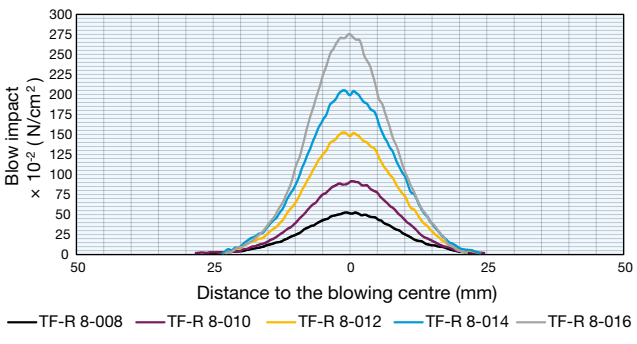
Blowing pattern

Round blown 

Dimensions (mm)



TF-R series power (0.5 MPa - ca. 5 bar)



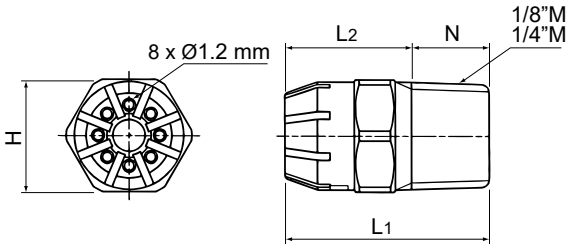
Connection	Dimensions (mm)				Weight (g)
	L1	L2	H	N	
1/8M	20	13	12	7	7
1/4M	25	15.5	14	9.5	12

- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a high blowing capacity through its 8 orifices with a free passage diameter of 1.2 mm which generate an effective blow cone.
- Lightweight and compact design.
- Suitable for use with unfiltered air supply where impurities or particles could be observed.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of S316L stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Round blown 

Dimensions (mm)



Connection	Dimensions (mm)				Weight (g)
	L1	L2	H	N	
1/8M	20	13	12	7	7
1/4M	25	15.5	14	9.5	12

Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
180	360	540

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/8” - 1/4”
male

Weight
7 g (1/8”)
12 g (1/4”)

Strength of blowing*
5.1 N

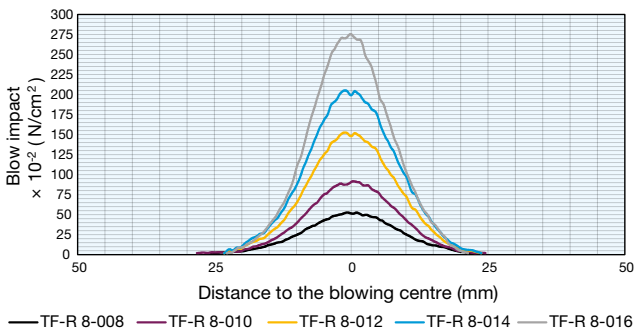
Air consumption*
540 ℓ/min, Normal

Level of noise*
88 dB(A)

Product code
1/8M TF-R 8-012 S316L-IN
1/4M TF-R 8-012 S316L-IN

* at 0.5 MPa (ca. 5 bar)

TF-R series power (0.5 MPa - ca. 5 bar)



- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a high blowing capacity through its 8 orifices with a free passage diameter of 1.4 mm which generate an effective blow cone.
- Lightweight and compact design.
- Suitable for use with unfiltered air supply where impurities or particles could be observed.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of S316L stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/8” - 1/4”
male

Weight
7 g (1/8”)
12 g (1/4”)

Strength of blowing*
6.7 N

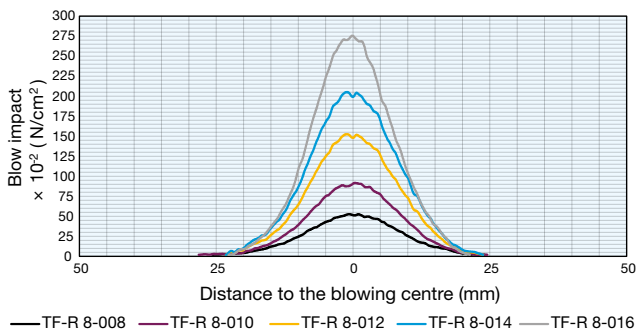
Air consumption*
720 ℓ/min, Normal

Level of noise*
91 dB(A)

Product code
1/8M TF-R 8-014 S316L-IN
1/4M TF-R 8-014 S316L-IN

* at 0.5 MPa (ca. 5 bar)

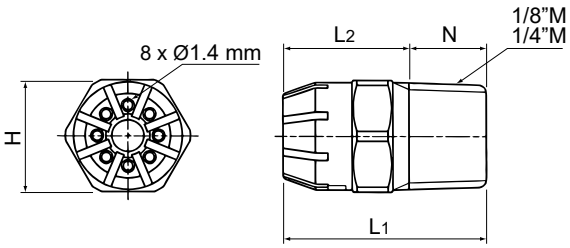
TF-R series power (0.5 MPa - ca. 5 bar)



Blowing pattern

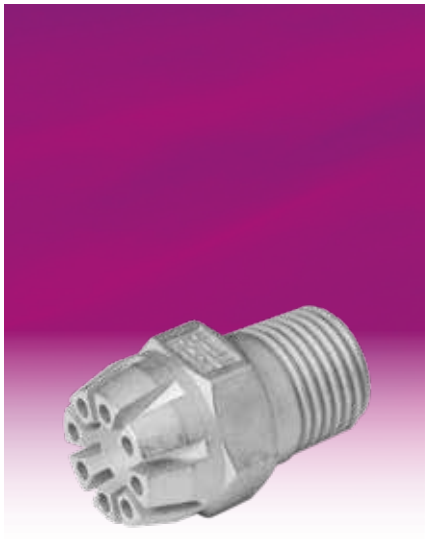
Round blown

Dimensions (mm)



Connection	Dimensions (mm)				Weight (g)
	L1	L2	H	N	
1/8M	20	13	12	7	7
1/4M	25	15.5	14	9.5	12

Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
240	480	720

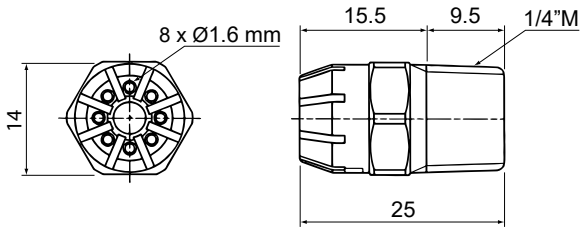


- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a high blowing capacity through its 8 orifices with a free passage diameter of 1.6 mm which generate an effective blow cone.
- Lightweight and compact design.
- Suitable for use with unfiltered air supply where impurities or particles could be observed.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of S316L stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Round blown 

Dimensions (mm)



Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
290	565	870

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
12 g

Strength of blowing*
10 N

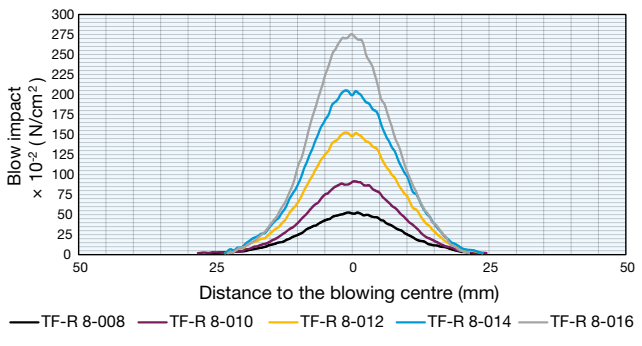
Air consumption*
870 ℓ/min, Normal

Level of noise*
97 dB(A)

Product code
1/4M TF-R 8-016 S316L-IN

* at 0.5 MPa (ca. 5 bar)

TF-R series power (0.5 MPa - ca. 5 bar)



- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a great blowing power through its 36 orifices with a free passage diameter of 1.2 mm which generate an effective blow cone.
- Robust and compact design for use in applications that require high power in tight spaces.
- Suitable for use with unfiltered air supply where impurities or particles could be observed thanks to an optimised interior design.
- Its multi-orifice design prevents clogging.
- Made of S303 stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Material
S303

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/2” male

Weight
50 g

Strength of blowing*
21 N

Air consumption*
2,220 ℓ/min, Normal

Level of noise*
98 dB(A)

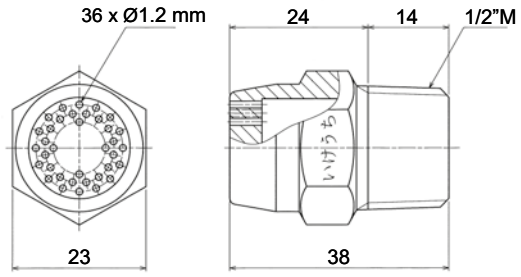
Product code
1/2M TF-R 36-012 S303

* at 0.5 MPa (ca. 5 bar)

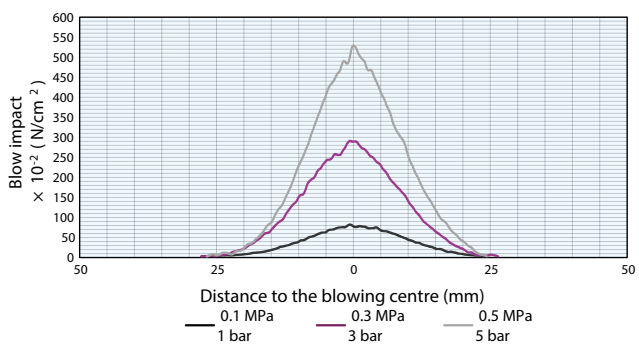
Blowing pattern

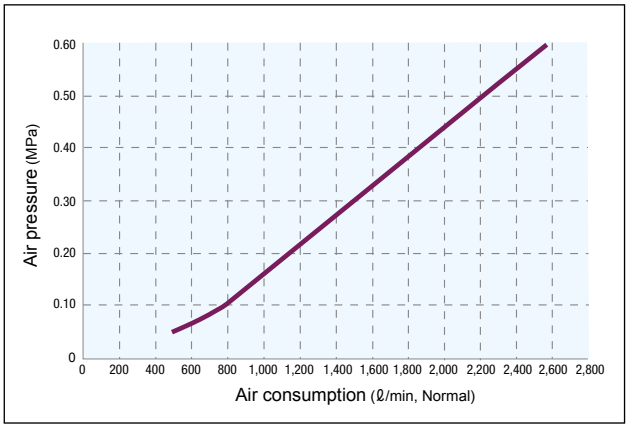
Round blown

Dimensions (mm)



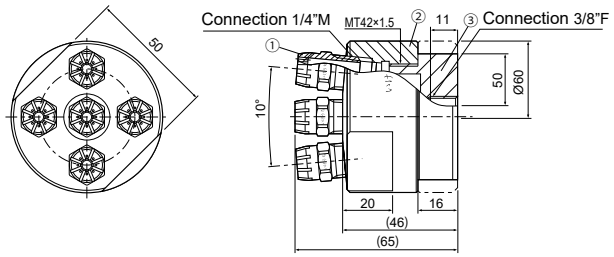
Blow power TF-R 36-012





- Compact adapter head for multi-nozzle assemblies of 4, 5 or 7 nozzles model **TF-R 8-010 / TF-R 8-012 / TF-R 8-014 / TFR 8-016**. By taking full advantage of the space, its ergonomic design allows an effective blow.
- Exclusive design capable of supplying a great blowing power of uniform impact, assuming a great improvement in existing applications.
- Suitable for use with unfiltered air supply where impurities or particles could be observed due to its improved interior design.
- Made of S303 stainless steel, they are highly resistant to both mechanical and chemical aggressions, as well as high temperature.
- Suitable for environments where hygiene is crucial.

Dimensions (mm)



①Nozzle
②Head ③Adapter

- ① = 1/4”M stainless steel air nozzles
- Total air volume = Air volume of a nozzle x number of nozzles
- Available for mounting 4, 5 and 7 nozzles
- Ask us for A6061 aluminium head and adapter.

Sealing materials are used for the assembly of some parts.

Material
S303

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
3/8” female

Air consumption
Number of nozzles x individual nozzle consumption ℓ /min

Product code
3/8F TF-M5R Nozzle Model S303
8-010
8-012
8-014
8-016

** Possibility of manufacturing in A6061 aluminium and with 4 or 7 nozzles, for more information contact our sales offices.*

Related products

Collector for three TF-M5R

- Air booster nozzle suitable **for the vast majority of applications**. It incorporates a high blowing capacity through its 8 orifices which generate an effective blowing cone.
- Lightweight and compact design. Ideal for use in confined or difficult to reach spaces.
- Suitable for use with unfiltered air supply where impurities or particles could be observed.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Affordable nozzle made of PP that provides great resistance to chemical aggressions and good resistance to high temperature.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Round blown 

Material
PP

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
60 °C

Thread connection
1/4” male

Weight
2 g

Strength of blowing*
3.7 N

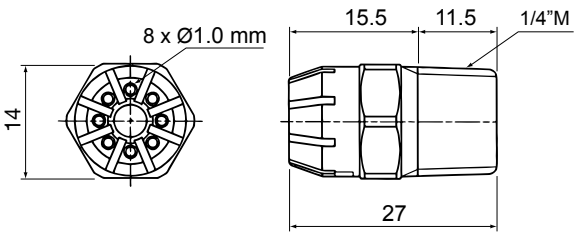
Air consumption*
360 ℓ/min, Normal

Level of noise*
77 dB(A)

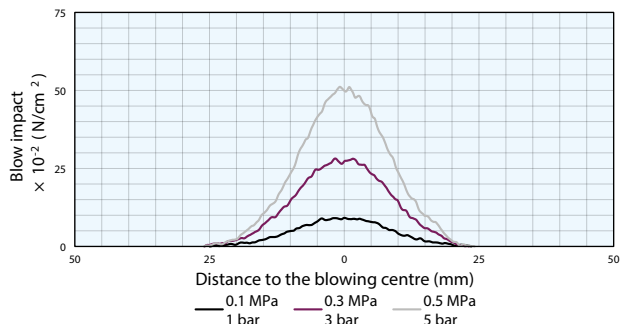
Product code
1/4M TF-R 8-010 PP-IN

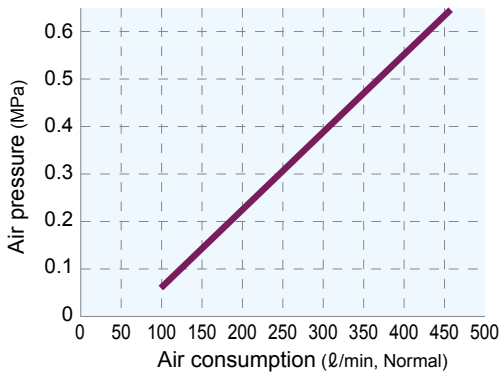
* at 0.5 MPa (ca. 5 bar)

Dimensions (mm)

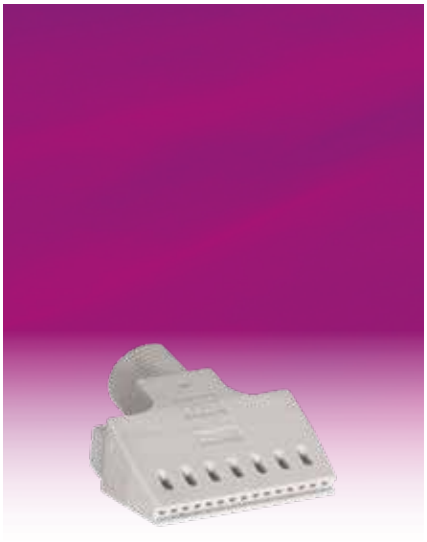


Blowing power





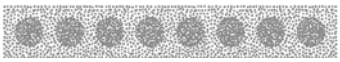
Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
125	245	360



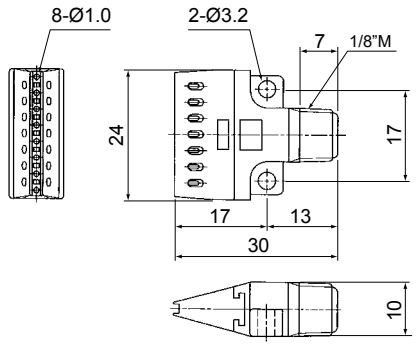
- Air booster nozzle appropriate for applications where flat blowing is required in hard to reach areas or tight spaces. High blowing power through its 8 orifices which generate an effective flat blow.
- Lightweight and ultra-compact design.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Manufactured in PPS by injection, they provide high resistance to chemical aggressions and good resistance to high temperature.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Flat blowing



Dimensions (mm)



Adhesive is necessary for the assembly of some parts.

Material
PPS

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
120 °C

Thread connection
1/8” male

Weight
4 g

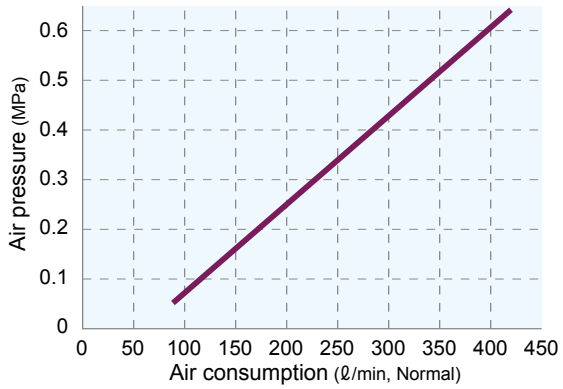
Strength of blowing*
3.21 N

Air consumption*
340 ℓ/min, Normal

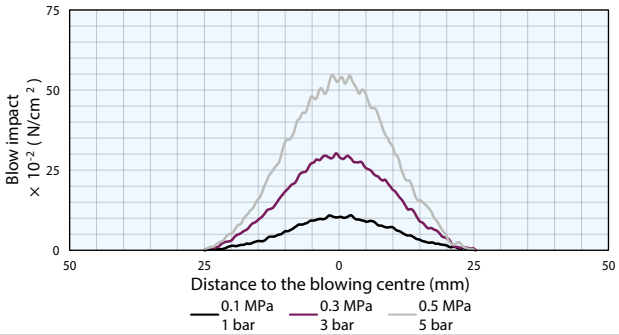
Level of noise*
82 dB(A)

Product code
1/8M TF-F 24-8-010 PPS-IN

* at 0.5 MPa (ca. 5 bar)



Blowing power



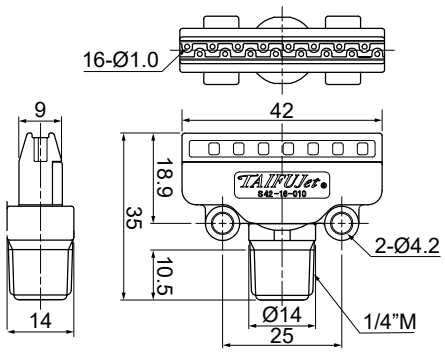
Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
115	225	340

- Air booster nozzle appropriate for applications where flat blowing is required in hard to reach areas or tight spaces. High blowing power through its 16 orifices which generate an effective flat blow.
- Thanks to its innovative design, it guarantees a considerable reduction in energy consumption by doubling its blowing power.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Lightweight design with a more compact body that makes it ideal for installations with small spaces.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Manufactured in PPS, they have a high resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Flat blowing

Dimensions (mm)



Material
PPS

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
120 °C

Thread connection
1/4” male

Weight
9 g

Strength of blowing*
6.5 N

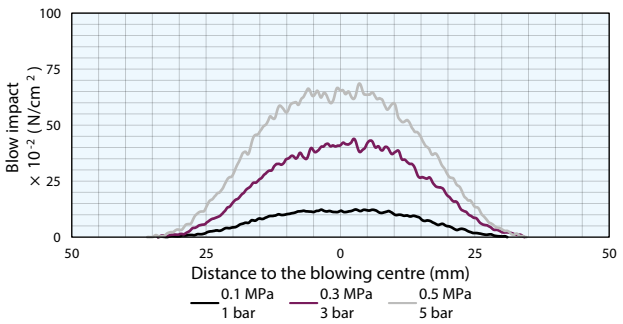
Air consumption*
660 ℓ/min, Normal

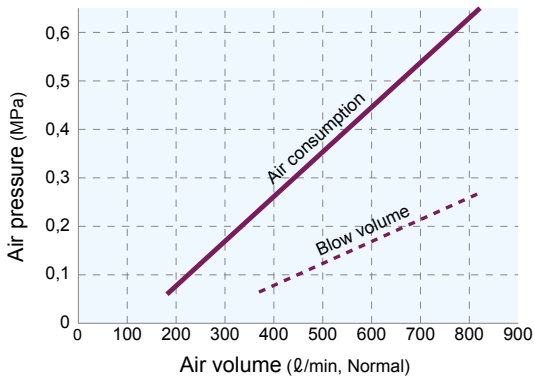
Level of noise*
85 dB(A)

Product code
1/4M TF-FS 42-16-010 PPS

* at 0.5 MPa (ca. 5 bar)

Blowing power

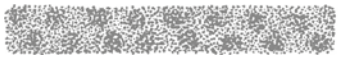




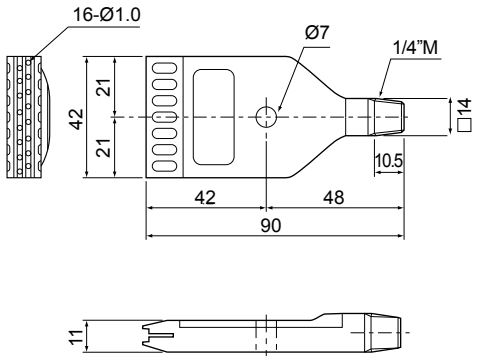
Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
215	440	660

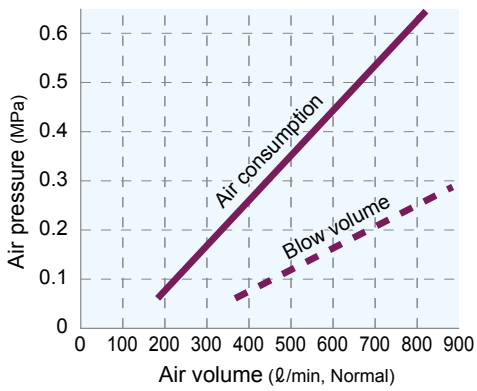
- Air booster nozzle suitable for applications where a flat laminar blow is required. High blowing power through its 16 orifices which generate an effective flat blow.
- It presents a considerable reduction in energy expenditure by doubling its blowing power due to its innovative design.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Lightweight design compared to the stainless-steel model.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Manufactured in PPS that provides great resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Flat blowing 

Dimensions (mm)





Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
215	440	660

Material
PPS

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
120 °C

Thread connection
1/4” male

Weight
30 g

Strength of blowing*
5.9 N

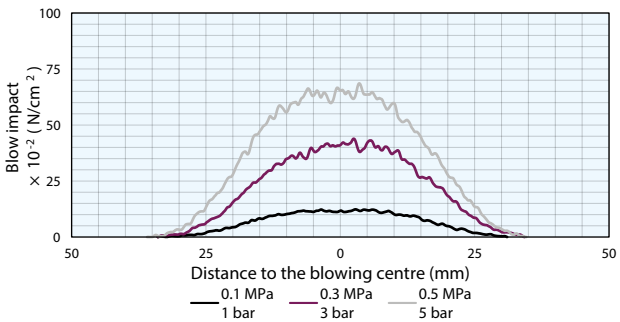
Air consumption*
660 ℓ/min, Normal

Level of noise*
85 dB(A)

Product code
1/4M TF-F 42-16-010 PPS

* at 0.5 MPa (ca. 5 bar)

Blowing power

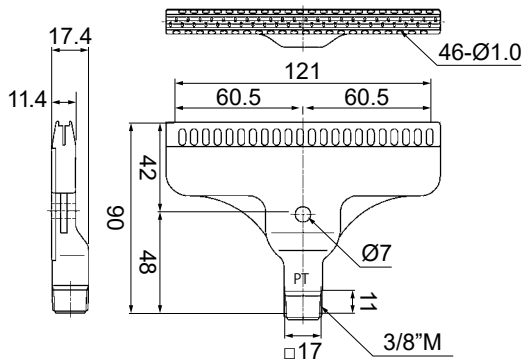


- Air booster nozzle suitable for applications where a wide laminar blow is required. High blowing power through its 46 orifices which generate an effective flat blow.
- Thanks to its innovative design, it guarantees a considerable reduction in energy consumption by doubling its blowing power.
- Blowing width three times greater than the one of the nozzles TF-F 42 and TF-FS 42.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Manufactured in PPS that provides great resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Flat blowing

Dimensions (mm)



Material
PPS

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
120 °C

Thread connection
3/8” male

Weight
62 g

Strength of blowing*
17 N

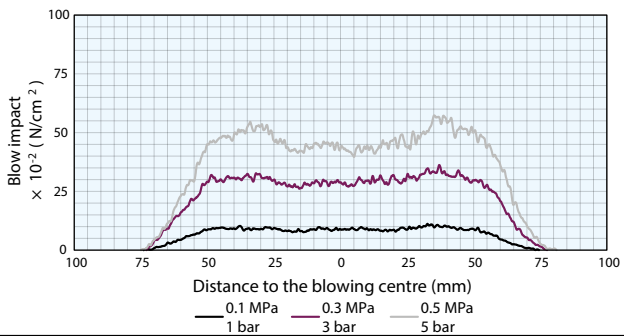
Air consumption*
1,830 ℓ/min, Normal

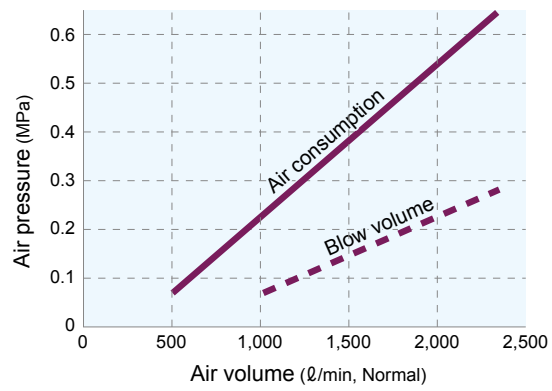
Level of noise*
86 dB(A)

Product code
3/8M TF-F 121-46-010 PPS

* at 0.5 MPa (ca. 5 bar)

Blowing power

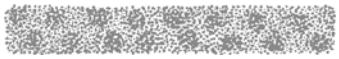




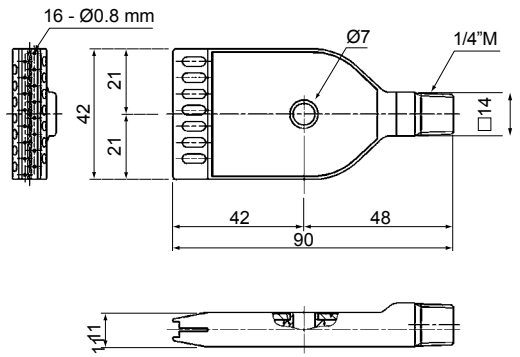
Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
610	1,220	1,830

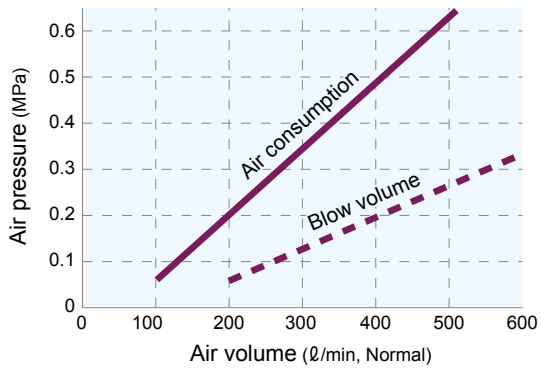
- Air booster nozzle suitable for applications where a flat laminar blow is required. High blowing power through its 16 orifices with a free passage diameter of 0.8 mm, which generate an effective flat blow.
- It presents a considerable reduction in energy expenditure by doubling its blowing power due to its innovative design.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Robust and innovative design.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of injected S316L stainless steel that provides high resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Flat blowing 

Dimensions (mm)





Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
140	280	425

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
144 g

Strength of blowing*
3.68 N

Air consumption*
425 ℓ/min, Normal

Level of noise*
79 dB(A)

Product code
1/4M TF-F 42-16-008 S316L-IN

* at 0.5 MPa (ca. 5 bar)

- Air booster nozzle suitable for applications where a flat laminar blow is required. High blowing power through its 16 orifices with a free passage diameter of 1 mm, which generate an effective flat blow.
- It presents a considerable reduction in energy expenditure by doubling its blowing power due to its innovative design.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Robust and innovative design.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of injected S316L stainless steel that provides great resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

Blowing pattern

Flat blowing

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
144 g

Strength of blowing*
5.9 N

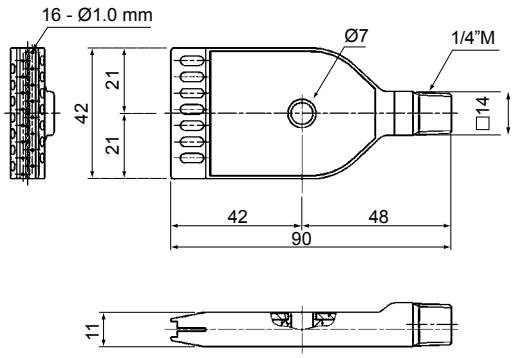
Air consumption*
655 ℓ/min, Normal

Level of noise*
84 dB(A)

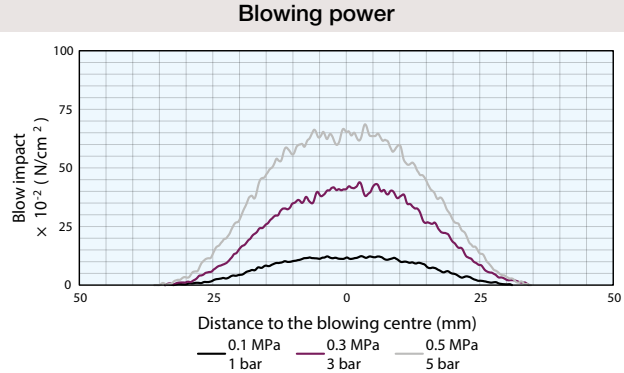
Product code
1/4M TF-F 42-16-010 S316L-IN

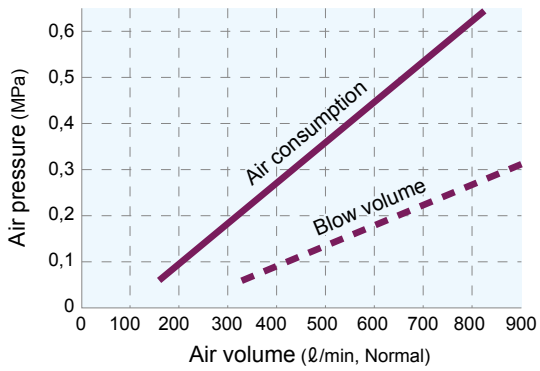
* at 0.5 MPa (ca. 5 bar)

Dimensions (mm)



Blowing power





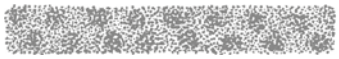
Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
215	435	655

For more information about other models of the TF-F 42 series, contact us.

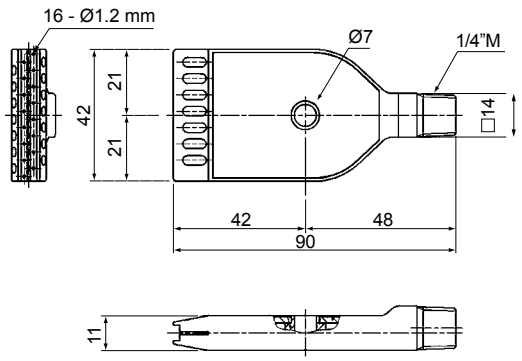
- Air booster nozzle suitable for applications where a flat laminar blow is required. High blowing power through its 16 orifices with a free passage diameter of 1.2, which generate an effective flat blow.
- It presents a considerable reduction in energy expenditure by doubling its blowing power due to its innovative design.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Robust and innovative design.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of injected S316L stainless steel that provides high resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

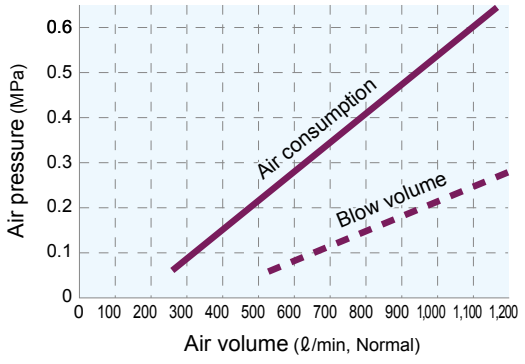
Blowing pattern

Flat blowing



Dimensions (mm)





Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
300	605	925

Material
S316L

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
144 g

Strength of blowing*
8.4 N

Air consumption*
925 ℓ/min, Normal

Level of noise*
86 dB(A)

Product code
1/4M TF-F 42-16-012 S316L-IN

* at 0.5 MPa (ca. 5 bar)

- Air booster nozzle suitable for applications where a powerful flat and laminar blow is required. High blowing power through its 16 orifices which generate an effective flat blow for most applications in the industry.
- Thanks to its innovative design, it guarantees a considerable reduction in energy consumption by doubling its blowing power.
- Uniform distribution of the blow in multi-nozzle assemblies thanks to its interior design.
- Blowing width greater than the one of the nozzles TF-F 42 and TF-FS 42.2.
- **In addition to its high effectiveness, it presents a very low noise level. (The human ear interprets a reduction of noise by 10 dB(A) as 50% less noise.)**
- Its multi-orifice design prevents clogging, not exceeding 2.1 bar of static pressure, according to safety regulations.
- Made of stainless steel S304 that provides great resistance to mechanical, chemical and high temperature aggressions.
- Suitable for environments where hygiene is crucial.

Material
S304

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
140 g

Strength of blowing*
11.5 N

Air consumption*
1,035 ℓ/min, Normal

Level of noise*
87 dB(A)

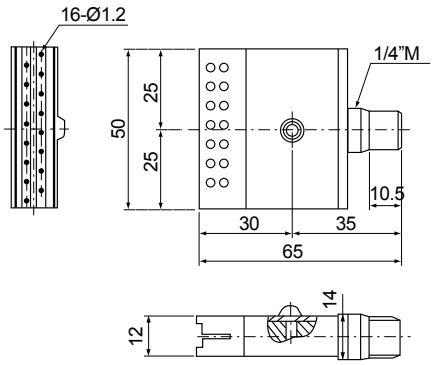
Product code
1/4M TF-F 50-16-012 S304

* at 0.5 MPa (ca. 5 bar)

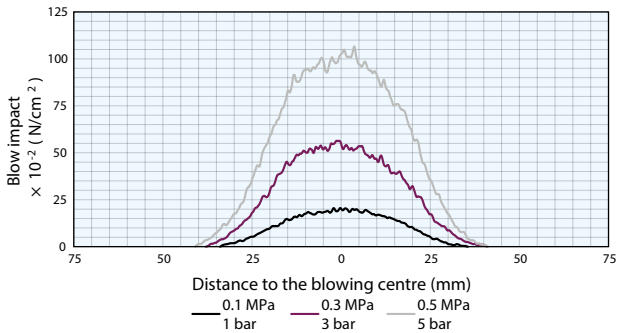
Blowing pattern

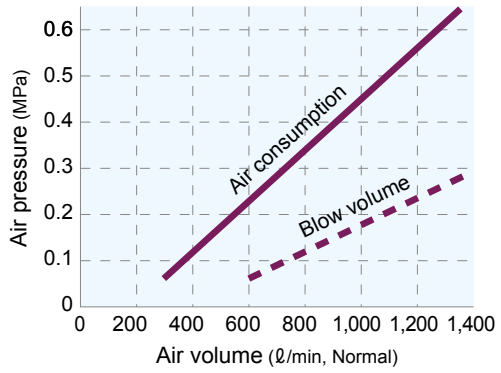
Flat blowing

Dimensions (mm)



Blowing power





Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
345	685	1,035

- Compact air nozzle model HF 7-012 made of stainless steel S303 that shows high resistance to high temperature, abrasion and corrosion.
- The blow outlet design achieves a uniform flat blow.
- Detachable nozzle for better cleaning.
- **Noise level reduction by more than 10 dB compared to a single hole nozzle.**

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
70 g

Strength of blowing*
4.2 N

Air consumption*
425 ℓ/min, Normal

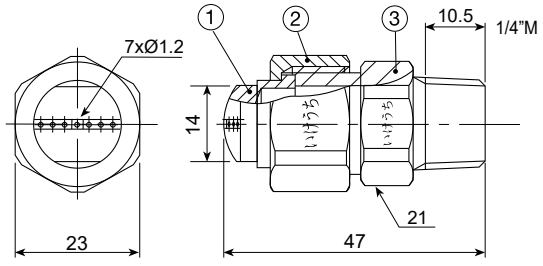
Level of noise*
83 dB(A)

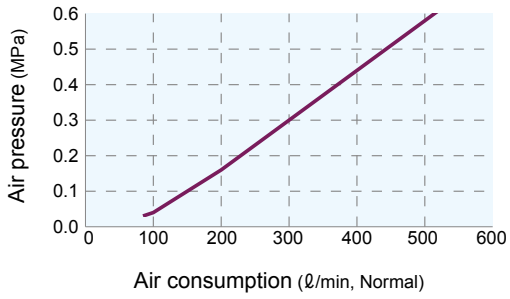
Product code
1/4M HF 7-012 S303

* at 0.5 MPa (ca. 5 bar)

Blowing pattern

Dimensions (mm)

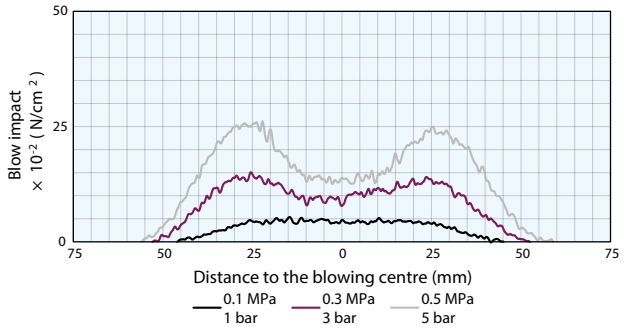




Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
140	280	425

Spray width and thickness (mm)						
Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
Distance	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	60	60	60	60
150 mm	110	80	120	120	120	120
300 mm	150	120	190	150	200	160

Blowing power



- Compact air nozzle model HF 7-012 made of stainless steel S303 that shows high resistance to high temperature, abrasion and corrosion.
- The blow outlet design achieves a uniform flat blow.
- Detachable nozzle for better cleaning.
- **Noise level reduction by more than 10 dB compared to a single hole nozzle.**

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
3/8” male

Weight
75 g

Strength of blowing*
4.2 N

Air consumption*
425 ℓ/min, Normal

Level of noise*
83 dB(A)

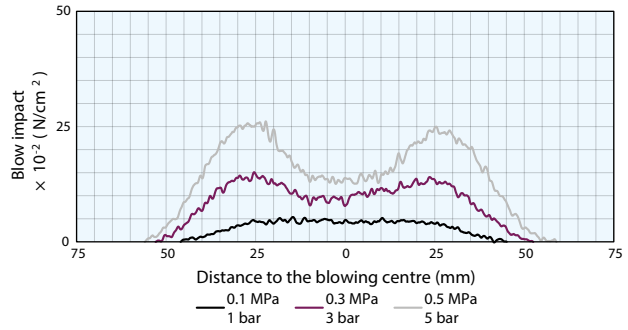
Product code
3/8M HF 7-012 S303

* at 0.5 MPa (ca. 5 bar)

Spray width and thickness (mm)

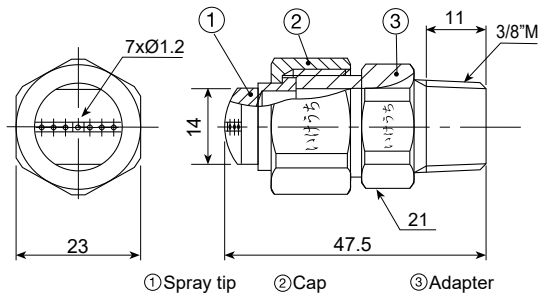
Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
Distance	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	60	60	60	60
150 mm	110	80	120	120	120	120
300 mm	150	120	190	150	200	160

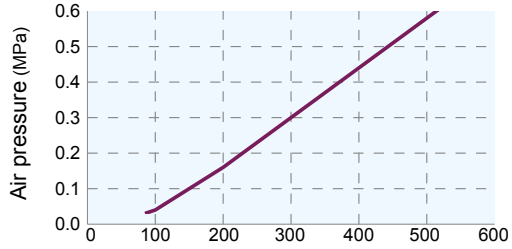
Blowing power



Blowing pattern

Dimensions (mm)





Consumption (ℓ/min, Normal)

0.1 MPa	0.3 MPa	0.5 MPa
140	280	425

- Compact air nozzle model HF 14-010 manufactured in stainless steel S303 that shows high resistance to high temperature, abrasion and corrosion.
- The blow outlet design achieves a uniform flat blow.
- Detachable nozzle for better cleaning.
- **Noise level reduction by more than 10 dB compared to a single hole nozzle.**

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
70 g

Strength of blowing*
5.7 N

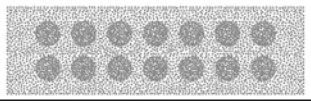
Air consumption*
620 ℓ/min, Normal

Level of noise*
88 dB(A)

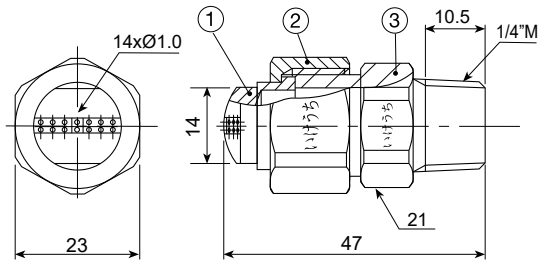
Product code
1/4M HF 14-010 S303

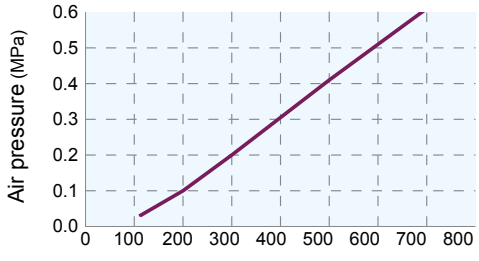
* at 0.5 MPa (ca. 5 bar)

Blowing pattern



Dimensions (mm)

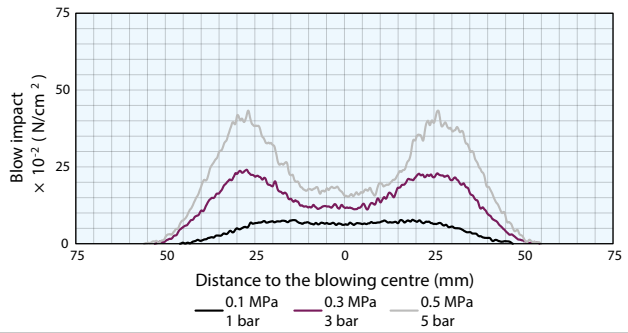




Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
210	420	620

Spray width and thickness (mm)						
Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
Distance	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	70	60	80	60
150 mm	120	80	140	120	150	120
300 mm	170	120	200	150	220	160

Blowing power



- Compact air nozzle model HF 14-010 manufactured in stainless steel S303 that shows high resistance to high temperature, abrasion and corrosion.
- The blow outlet design achieves a uniform flat blow.
- Detachable nozzle for better cleaning.
- **Noise level reduction by more than 10 dB compared to a single hole nozzle.**

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
3/8” male

Weight
75 g

Strength of blowing*
5.7 N

Air consumption*
620 ℓ/min, Normal

Level of noise*
88 dB(A)

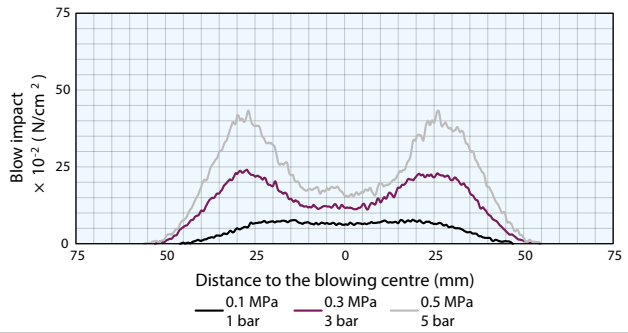
Product code
3/8M HF 14-010 S303

* at 0.5 MPa (ca. 5 bar)

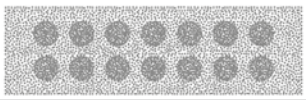
Spray width and thickness (mm)

Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
Distance	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	70	60	80	60
150 mm	120	80	140	120	150	120
300 mm	170	120	200	150	220	160

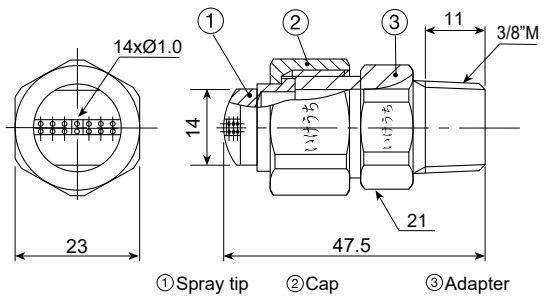
Blowing power

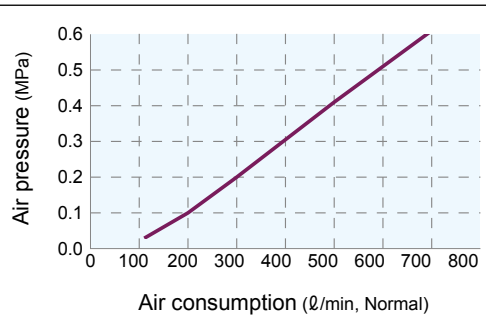


Blowing pattern



Dimensions (mm)





Consumption (ℓ/min, Normal)

0.1 MPa	0.3 MPa	0.5 MPa
210	420	620

- Compact air nozzle model HF 19-010 manufactured in stainless steel S303 that shows high resistance to high temperature, abrasion and corrosion.
- The blow outlet design achieves a uniform flat blow.
- Detachable nozzle for better cleaning.
- **Noise level reduction by more than 10 dB compared to a single hole nozzle.**

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
1/4” male

Weight
70 g

Strength of blowing*
8.6 N

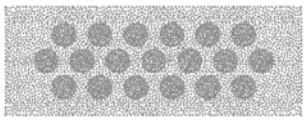
Air consumption*
850 ℓ/min, Normal

Level of noise*
90 dB(A)

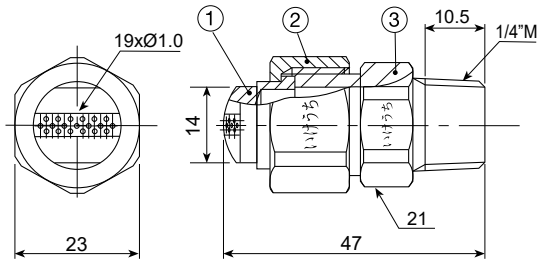
Product code
1/4M HF 19-010 S303

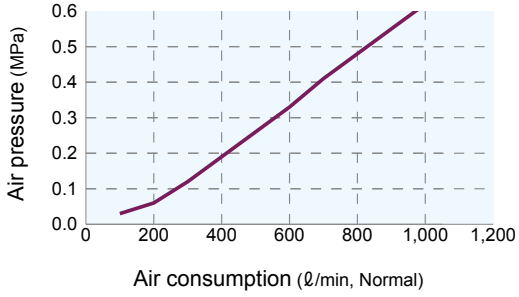
* at 0.5 MPa (ca. 5 bar)

Blowing pattern



Dimensions (mm)

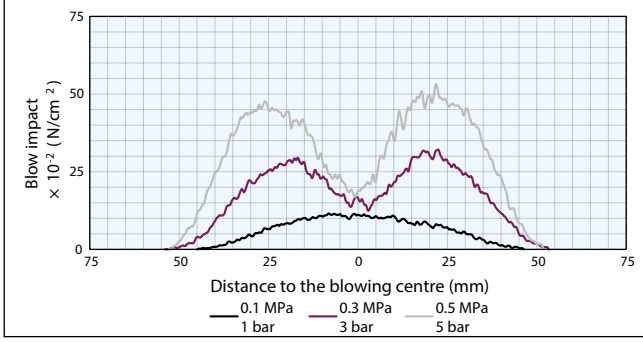




Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
275	560	850

Spray width and thickness (mm)						
Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
Distance	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	80	60	80	60
150 mm	120	80	140	120	150	120
300 mm	180	120	210	150	230	160

Blowing power



- Compact air nozzle model HF 19-010 manufactured in stainless steel S303 that shows high resistance to high temperature, abrasion and corrosion.
- The blow outlet design achieves a uniform flat blow.
- Detachable nozzle for better cleaning.
- **Noise level reduction by more than 10 dB compared to a single hole nozzle.**

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
3/8” male

Weight
75 g

Strength of blowing*
8.6 N

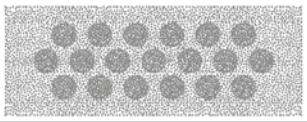
Air consumption*
850 ℓ/min, Normal

Level of noise*
90 dB(A)

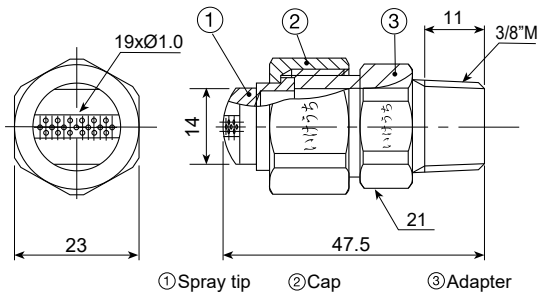
Product code
3/8M HF 19-010 S303

* at 0.5 MPa (ca. 5 bar)

Blowing pattern



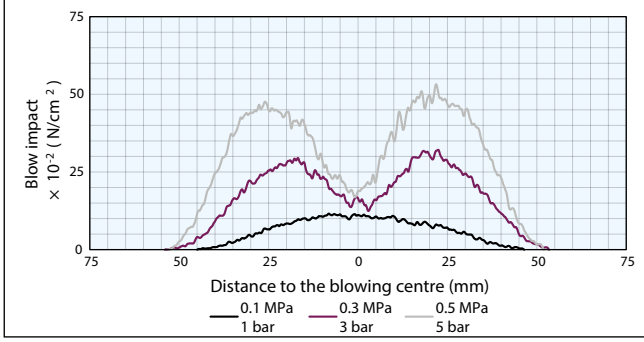
Dimensions (mm)

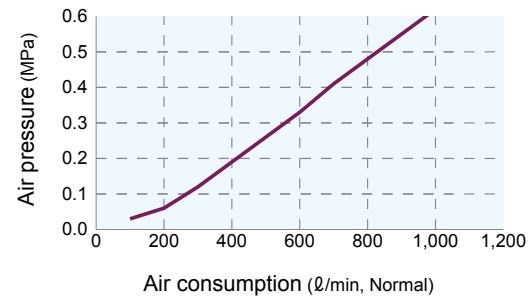


Spray width and thickness (mm)

Pressure	0.1 MPa		0.3 MPa		0.4 MPa	
Distance	Width	Thickness	Width	Thickness	Width	Thickness
50 mm	60	40	80	60	80	60
150 mm	120	80	140	120	150	120
300 mm	180	120	210	150	230	160

Blowing power





Consumption (ℓ/min, Normal)		
0.1 MPa	0.3 MPa	0.5 MPa
275	560	850

Wide angle flat air nozzle 1/4”

- Compact air nozzle model VZ made of stainless steel S303 with high resistance to high temperature, abrasion and corrosion.
- Compact nozzle with a large coverage area thanks to the head design, which achieves a 90° angle spray.
- Detachable nozzle for better cleaning.

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 °C

Thread connection
1/4” male

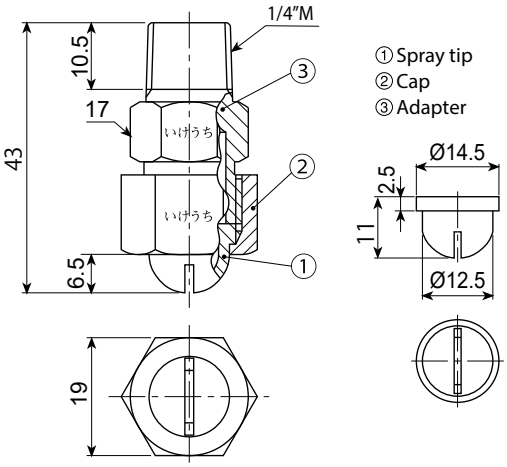
Weight
44 g

Product code
1/4M VZ 150-500 S303

Blowing pattern

Flat blowing

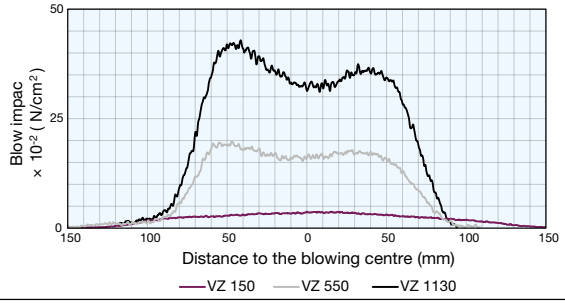
Dimensions (mm)



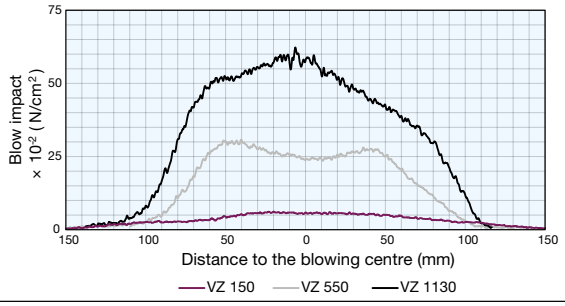
Building:
- It is made up of three parts: spray tip, cap and adapter.
- Worn-out spray tip can be replaced separately.
- The cap and the adapter are interchangeable with those of standard flat spray nozzles of three-piece structure (for liquids).

*The appearance and dimensions may vary slightly depending on the materials and codes of the nozzles.

Blowing power (0.3 MPa - ca. 3 bar)



Blowing power (0.5 MPa - ca. 5 bar)



Spray angle	Air Capacity (Code)	Force (N) (0.5 MPa - ca. 5 bar)	Air capacity (ℓ /min. Normal)						Steam capacity (kg/h)						Free passage diameter (Ø mm)	dB(A)
			0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa		
90	150	1.2	55.7	77.6	116	154	230	307	2.62	3.56	5.27	6.97	10.3	13.7	0.2	70
	200	2.2	73.1	102	152	202	302	402	3.44	4.67	6.92	9.14	13.6	17.9	0.3	72
	250	3.1	90.5	126	188	250	374	498	4.26	5.78	8.57	11.3	16.8	22.2	0.4	74
	300	4.1	108	150	224	298	446	594	5.08	6.90	10.2	13.5	20.0	26.5	0.5	75
	350	5.0	125	175	261	346	518	690	5.90	8.00	11.9	15.7	23.2	30.7	0.6	77
	400	6.0	143	199	297	394	590	786	6.72	9.12	13.5	17.9	26.5	35.0	0.7	79
	450	7.0	160	223	333	443	662	882	7.54	10.2	15.2	20.0	29.7	39.3	0.8	81
	500	7.9	177	247	369	491	734	977	8.36	11.3	16.8	22.2	32.9	43.5	0.9	82

*Standard data at 0.3 MPa (ca. 3 bar).

- Compact air nozzle model VZ made of stainless steel S303 with high resistance to high temperature, abrasion and corrosion.
- Compact nozzle with a large coverage area thanks to the head design, which achieves a 90º angle spray.
- Detachable nozzle for better cleaning.

Material
S303

Pressure
0.7 MPa
ca. 7 bar

Maximum temperature
400 ºC

Thread connection
3/8” male

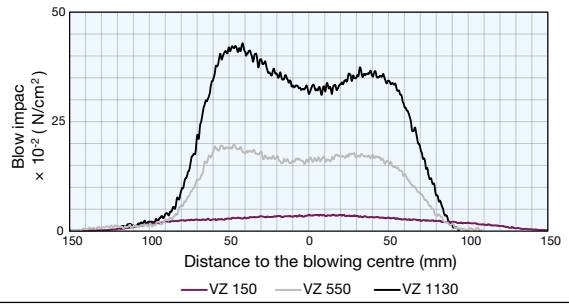
Weight
73 g

Product code
3/8M VZ 550-1130 S303

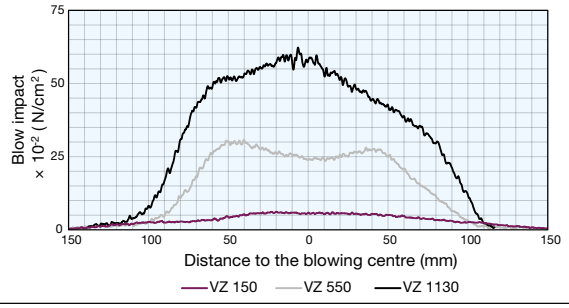
Blowing pattern

Flat blowing

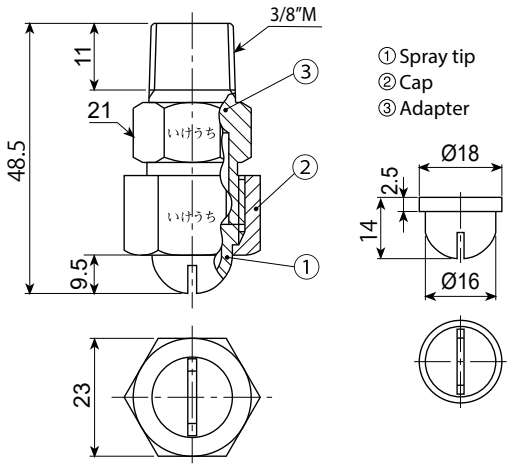
Blowing power (0.3 MPa - ca. 3 bar)



Blowing power (0.5 MPa - ca. 5 bar)



Dimensions (mm)



Building:
- It is made up of three parts: spray tip, cap and adapter.
- Worn-out spray tip can be replaced separately.
- The cap and the adapter are interchangeable with those of standard flat spray nozzles of three-piece structure (for liquids).

*The appearance and dimensions may vary slightly depending on the materials

Spray angle	Air Capacity (Code)	Force (N) (0.5 MPa - ca. 5 bar)	Air capacity (ℓ /min. Normal)						Steam capacity (kg/h)						Free passage diameter (Ø mm)	dB(A)
			0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa	0.05 MPa	0.1 MPa	0.2 MPa	0.3 MPa	0.5 MPa	0.7 MPa		
90	550	8.9	199	278	414	551	823	1.096	9.38	12.7	18.8	24.9	36.9	48.8	0.6	84
	600	9.8	219	305	455	605	905	1.205	10.3	14.0	20.7	27.4	40.6	53.7	0.7	86
	650	10.8	235	328	489	650	972	1.295	11.1	15.0	22.3	29.4	43.6	57.7	0.8	87
	700	11.8	253	353	526	700	1.047	1.394	11.9	16.2	24.0	31.7	46.9	62.1	0.8	89
	750	12.7	272	380	566	753	1.126	1.500	12.8	17.4	25.8	34.1	50.5	66.8	0.9	90
	900	13.7	326	454	677	901	1.347	1.794	15.3	20.8	30.8	40.7	60.4	79.9	1.1	92
	1130	14.6	406	566	844	1.122	1.678	2.235	19.1	25.9	38.4	50.8	75.2	99.5	1.4	94

*Standard data at 0.3 MPa (ca. 3 bar).

Solid stream jet air nozzle 1/8”

- Air nozzle made of stainless steel S303 with high resistance to temperature, abrasion and corrosion.
- 4 models available with different blowing powers.
- Designed for precision blowing, it achieves a solid stream jet blow by concentrating all the power at one point.
- Designed for accuracy in hard to reach areas.

Material
S303

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/8” male

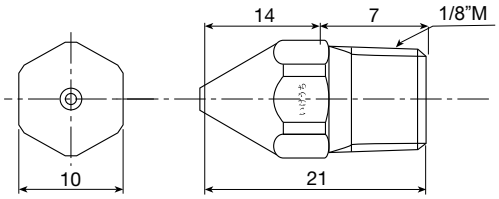
Weight
7.2 g

Product code
1/8M CCP 1.0A S303
1/8M CCP 1.5A S303
1/8M CCP 2.0A S303
1/8M CCP 2.5A S303

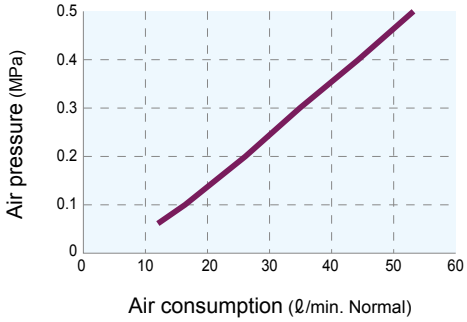
Blowing pattern

Solid stream jet blow

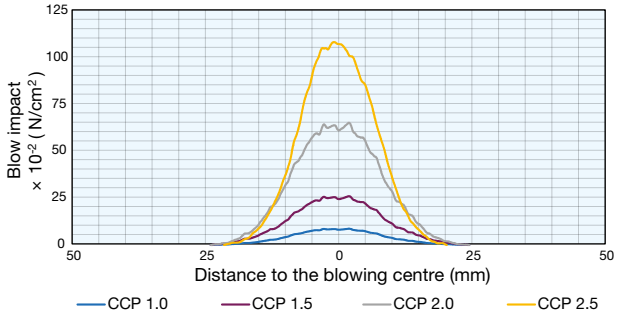
Dimensions (mm)



Orifice diameter Ø 1.0 mm



Blowing power (0.5 MPa - ca. 5 bar)



Ø Orifice diameter (Code)	Force (N) (0.5 MPa - ca. 5 bar)	Air consumption (ℓ /min. Normal)					Orifice diameter (mm)	dB (A)
		0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa	0.5 MPa		
Ø1.0A	0.5	17	26	35	44	53	1.0	71
Ø1.5A	1.1	40	60	80	100	120	1.5	77
Ø2.0A	2.0	70	104	138	172	206	2.0	83
Ø2.5A	3.1	109	162	215	268	321	2.5	89

*Standard data at 0.5 MPa (ca. 5 bar).

- Air nozzle made of stainless steel S303 with high resistance to temperature, abrasion and corrosion.
- 4 models available with different blowing powers.
- Designed for precision blowing, it achieves a solid stream jet blow by concentrating all the power at one point.
- Designed for accuracy in areas of difficult access.

Material
S303

Pressure
1 MPa
ca. 10 bar

Maximum temperature
400 °C

Thread connection
1/4” male

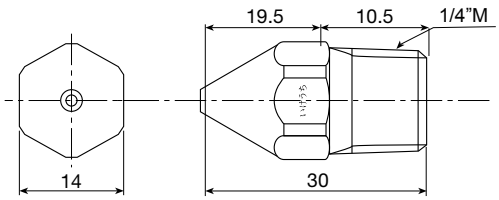
Weight
19 g

Product code
1/4M CCP 1.0A S303
1/4M CCP 1.5A S303
1/4M CCP 2.0A S303
1/4M CCP 2.5A S303

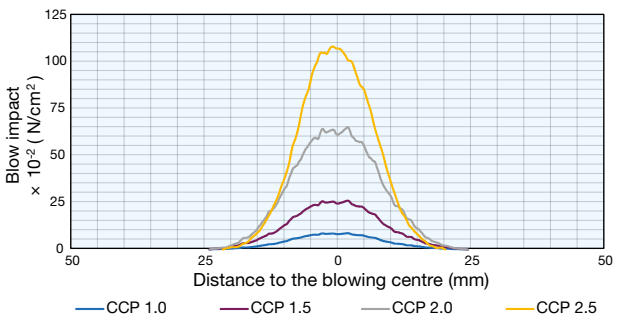
Blowing pattern

Solid stream jet blow

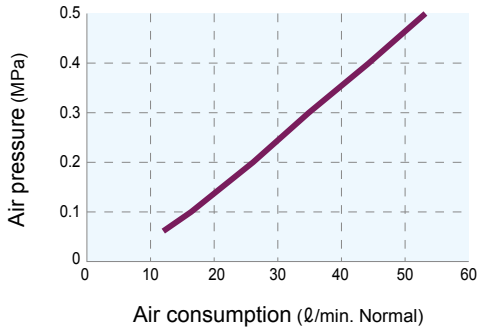
Dimensions (mm)



Blowing power (0.5 MPa - ca. 5 bar)



Orifice diameter Ø 1.0 mm



Ø Orifice diameter (Code)	Force (N) (0.5 MPa - ca. 5 bar)	Air consumption (ℓ /min. Normal)					Orifice diameter (mm)	dB (A)
		0.1 MPa	0.2 MPa	0.3 MPa	0.4 MPa	0.5 MPa		
Ø1.0A	0.5	17	26	35	44	53	1.0	71
Ø1.5A	1.1	40	60	80	100	120	1.5	77
Ø2.0A	2.0	70	104	138	172	206	2.0	83
Ø2.5A	3.1	109	162	215	268	321	2.5	89

*Standard data at 0.5 MPa (ca. 5 bar).

- Very compact air nozzle, model made of stainless steel S304 with great resistance to temperature, abrasion and corrosion.
- Designed for a minimum pressure loss that improves impact and reduces consumption.
- Large blow coverage area compared to standard nozzle thanks to the head design.
- Suitable for tight spaces.

Material
S304

Pressure
0.1 MPa
ca. 1 bar

Maximum temperature
400 °C

Thread connection
1/8”-1/4” male

Weight
10 - 16 g

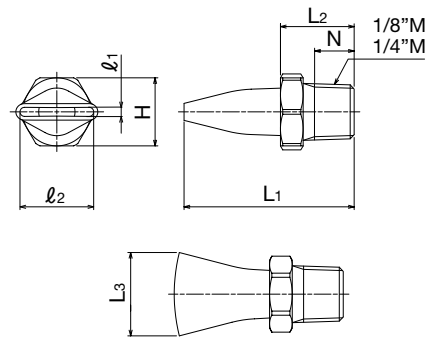
Strength of blowing
1.9 - 2.3 N
(0.05 MPa - ca. 0.5 bar)

Air consumption
275-365 ℓ/min
(0.05 MPa - ca. 0.5 bar)

Level of noise
78-79 dB(A)
(0.05 MPa - ca. 0.5 bar)

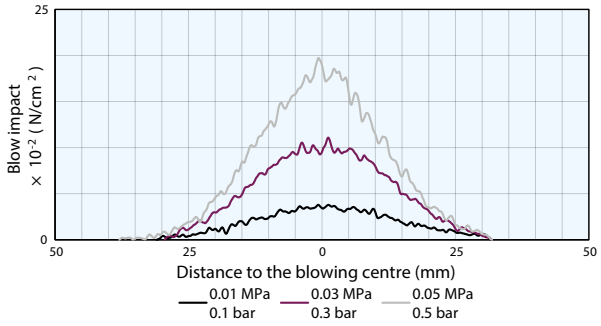
Product code
1/8M SAP 13-15 S304
1/4M SAP 17-15 S304

Dimensions

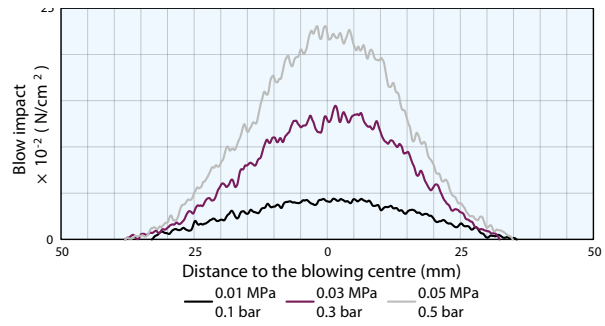


Pipe conn. size	Dimensions (mm)							Mass (g)
	L1	L2	L3	ℓ1	ℓ2	H	N	
1/8M	29	13	14.7	1.5	13	12	7	10
1/4M	37	17.5	18.9	1.5	17	14	10.5	16

SAP 13-15 Blowing power



SAP 17-15 Blowing power



Pipe conn. size	Air consumption (ℓ /min, Normal)				
	0.01 MPa	0.02 MPa	0.03 MPa	0.04 MPa	0.05 MPa
1/8M	120	170	208	239	266
1/4M	167	235	287	330	368

Air compressor can be used.
(The table above shows the air consumption)