

## For compressors

- The compact, multi-orifice design achieves a flat blow with large coverage area.
- Available in three models: HF 7-012 (having 7 orifices), HF 7-014 (14 orifices), and HF 19-012 (19 orifices).
- Low noise level.
- Nozzle can be disassembled into three parts for easy cleaning of the orifices.

### 7 orifices

HF 7-012



### 14 orifices

HF 14-010

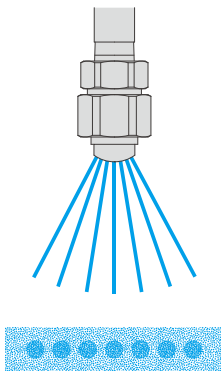


### 19 orifices

HF 19-010

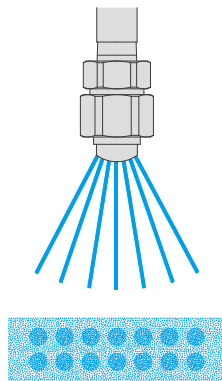


### 7 orifices



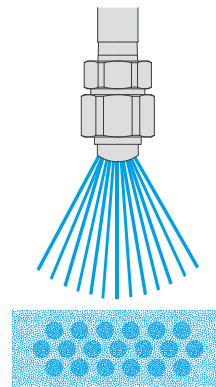
Blow pattern

### 14 orifices



Blow pattern

### 19 orifices



Blow pattern



Material  
S303 (Optional material: S316)



Max. temperature  
400°C (750°F)



Weight  
Pipe conn. size R1/4: 70 g  
Pipe conn. size R3/8: 75 g



Noise level  
78–84 dBA at 0.3 MPa



Max. operating pressure  
1.0 MPa (140 psi)

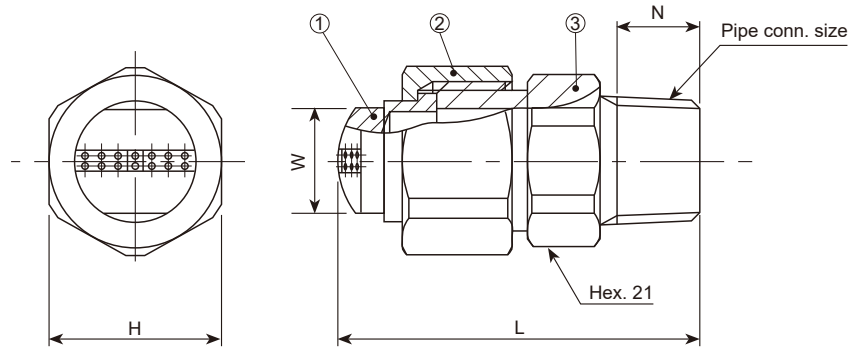


Air consumption  
300–550 L/min, Normal at 0.3 MPa

**Drawing**

■ 1/4M (or 3/8M) HF 14-010 S303

HF 7-012 and HF 19-010 have the same outer dimensions as HF 14-010 (but differ in the number of orifices as shown in the images on Page 23.)



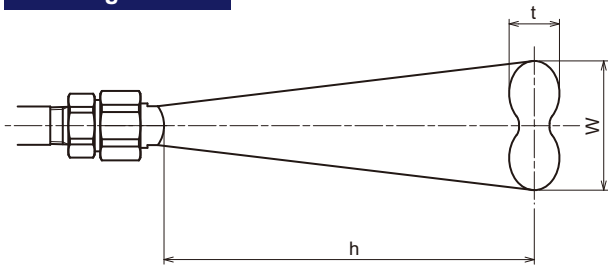
1. Nozzle tip 2. Cap 3. Adaptor

■ Dimensions and weight

Pipe conn. size	Outer dimensions (mm)				Weight (g)
	L	H	W	N	
R1/4	47.0	23.0	14.0	10.5	70
R3/8	47.5	23.0	14.0	11.0	75

Unit: mm

**Blowing Pattern**



■ HF 7-012 (7 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	65	70	80	25	30	40
150	115	125	145	65	80	85
300	150	185	210	105	135	150

■ HF 14-010 (14 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	65	70	80	25	30	40
150	115	135	150	70	90	95
300	160	205	220	115	150	160

■ HF 19-010 (19 orifices)

Distance h (mm)	Blowing width W (mm)			Thickness t (mm)		
	0.1 MPa	0.3 MPa	0.5 MPa	0.1 MPa	0.3 MPa	0.5 MPa
50	70	75	80	25	30	40
150	115	135	150	70	90	100
300	165	210	230	125	160	170

**Noise Level** at a distance of 1,000 mm

Background noise: 46 dBA

■ HF 7-012

Pressure (MPa)	Noise level (dBA)
0.1	66
0.3	78
0.5	83

■ HF 14-010

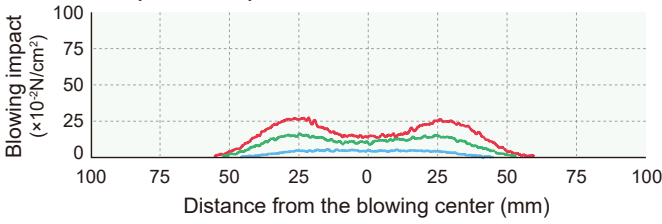
Pressure (MPa)	Noise level (dBA)
0.1	69
0.3	81
0.5	88

■ HF 19-010

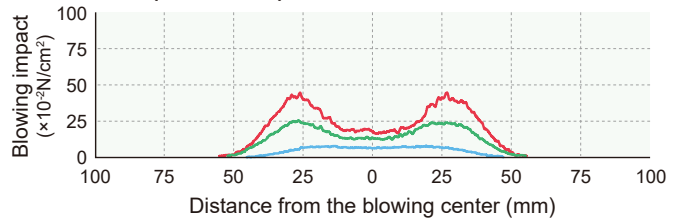
Pressure (MPa)	Noise level (dBA)
0.1	72
0.3	84
0.5	90

**Blowing Impact Distribution** at 100 mm below the nozzle orifice

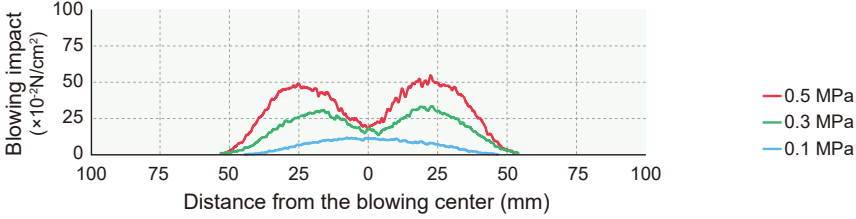
■ HF 7-012 (7 orifices)



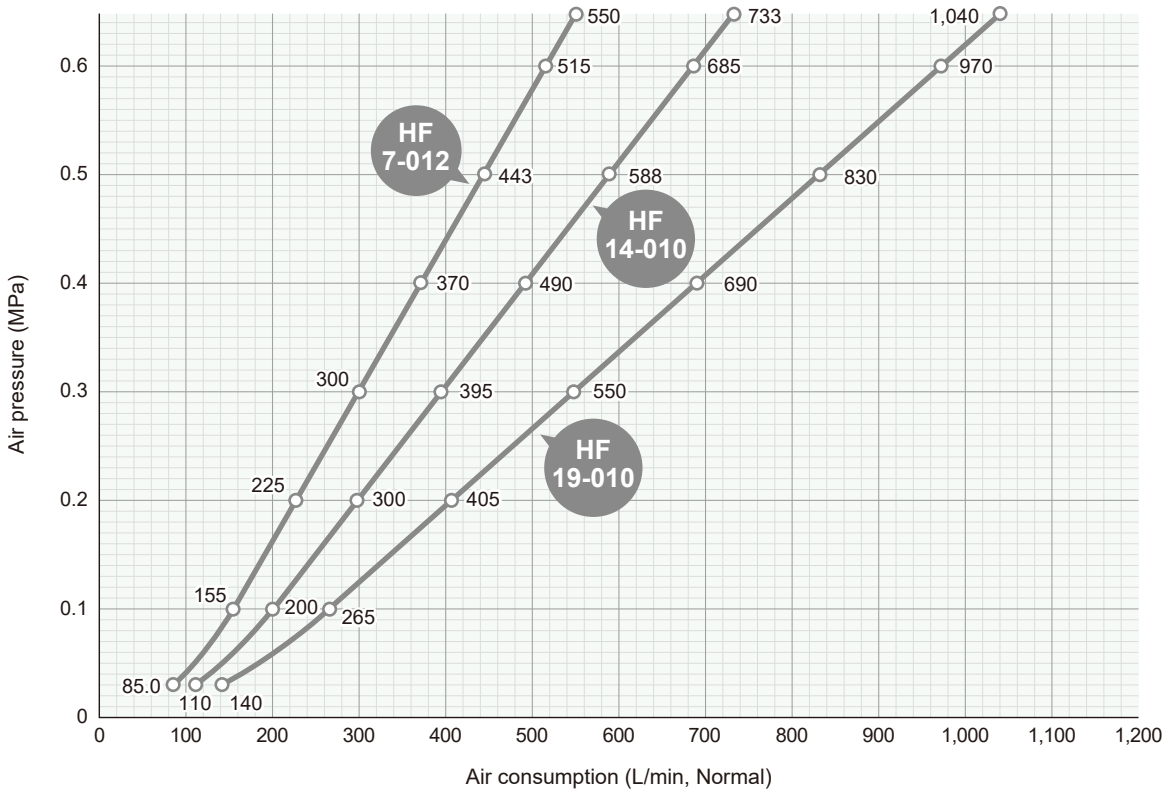
■ HF 14-010 (14 orifices)



■ HF 19-010 (19 orifices)



**Air Consumption**



**HOW TO ORDER**

Please inquire or order for a specific nozzle using this coding system. See Page 24 for selection.

<Example> 1/4M HF 7-012 S303

**1/4M HF 7-012 S303**

Pipe Conn. Size\*

- 1/4M
- 3/8M

Orifice Code

- 7-012
- 14-010
- 19-010

\*"M" indicates male thread ("R" of the ISO standard) and "F" indicates female thread ("Rc" of the ISO standard), e.g. 1/4M = R1/4.