COALESCING FILTERS
SERIES N

Ports: G1/8, G1/4

- Available with: transparent PA12 bowl or nickelplated brass bowl for the small version (N1)
- Quality of delivered air according to ISO 8573-1:2010 Class [1:8:1]

Series N coalescing filters (oil removal filters) combine a minimal footprint with a compact "nipple-type" design to make air treatment easy to integrate where space is critical.
The brass body and transparent PA12 bowl allow immediate condensate inspection; for the small N1 version, a nickel-plated brass bowl is also available for applications exposed to impacts or aggressive agents.

With a 0.01 µm filter element, Series N achieves air quality ISO 8573-1:2010 Class [1:8:1]. Available with G1/8 and G1/4 connections, sizes with 11 cm^3 or 28 cm^3 condensate capacity, and condensate drain options: semi-automatic manual or vacuum-operated (also protected), with an operating temperature of -5°C to 50°C.

General Data

Construction	Coalescing filtering element
Materials	Brass, transparent PA12 or nickel-plated brass, NBR
Ports	G1/8 - G1/4
Max condensate capacity	11 cm^3 (bowl size = 1) 28 cm^3 (bowl size = 2)
Weight	0,220 kg
Mounting	Vertical, inline
Working temperature	-5°C ÷ 50°C at 10 bar (with the dew point of the fluid lower than 2°C at the min. working temperature)
Quality of delivered air according to ISO 8573-1:2010	Class [7:8:4] with 25 µm filtering element Class [6:8:4] with 5 µm filtering element Class [1:8:1] with 0,01 µm filtering element Classe [1:7:1] with actived carbon filtering element
Draining of condensate	See the coding example
Fluid	Compressed air
Pre-filtering	It is recommended to use a filter with residual oil of 0,01mg/m^3

COALESCING FILTERS
SERIES N - CODING EXAMPLES

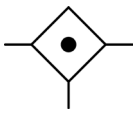
Coding Example

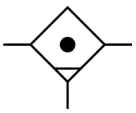
N	2	04	-	F	0	0	-

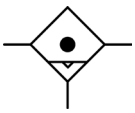
N	SERIES
2	SIZE 1 = Small bowl (11 cm^3) 2 = Normal bowl (28 cm^3)
04	PORTS 08 = G1/8 04 = G1/4
F	FILTER
0	FILTERING ELEMENT B = 0,01µm
0	DRAINING OF CONDENSATE 0 = Semi-automatic manual drain 4 = Depressurisation (normal bowl only) 5 = Protected depressurisation (normal bowl only) 8 = No drain, direct G1/8 exhaust 9 = Closed bowl
	BOWL MATERIAL = Transparent PA12 (standard) TM = Nickel-plated brass (only in the small size with semi-automatic manual drain or without drain, port 1/8)

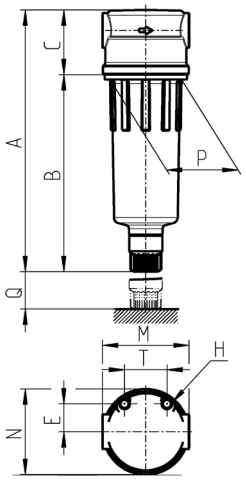
Coalescing filters Series N

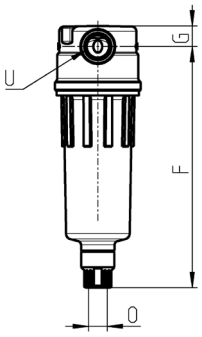
FA01 = Coalescing filter without drain with threaded port
FA02 = Coalescing filter with semi-automatic manual drain
FA03 = Coalescing filter with automatic drain





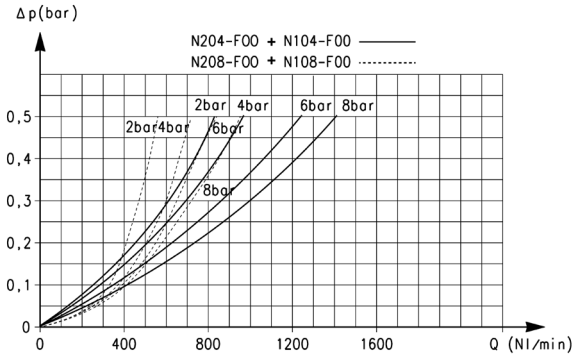






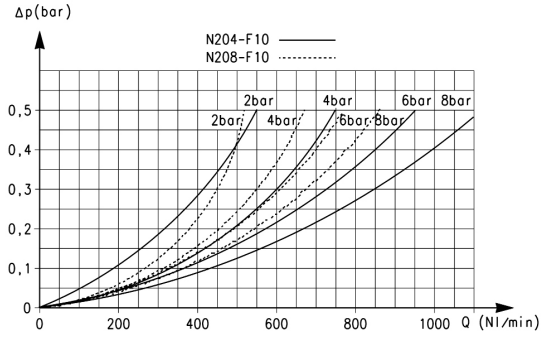
Mod.	A	B	C	E	F	G	H	M	N	O	P	Q	T	U
N108-FB0	111	78	33	14,5	101	10	M5	45	44,5	G1/8	38	40	22	G1/8
N104-FB0	111	78	33	14,5	101	10	M5	45	44,5	G1/8	38	40	22	G1/4
N208-FB0	135	102	33	14,5	125	10	M5	45	44,5	G1/8	38	40	22	G1/8
N204-FB0	135	102	33	14,5	125	10	M5	45	44,5	G1/8	38	40	22	G1/4

Flow diagrams



Flow diagram for models:
N204-F00 - N104-F00 = _____
N208-F00 - N108-F00 = - - - - -

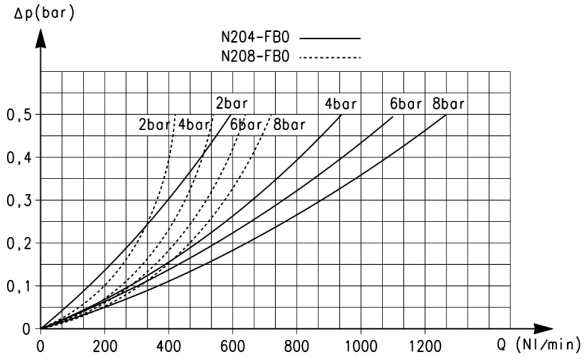
ΔP = Pressure drop (bar)
Q = Flow (Nl/min)



Flow diagram for models:
N204-F10 = _____
N208-F10 = - - - - -

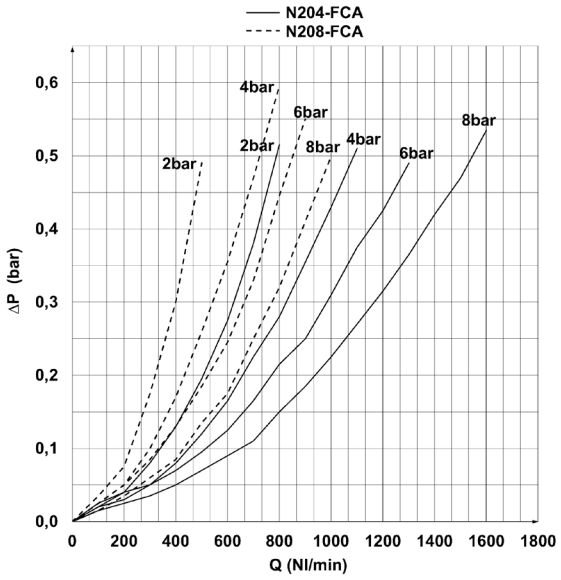
ΔP = Pressure drop (bar)
Q = Flow (Nl/min)

Flow diagrams



Flow diagram for models:
N204-FB0 = _____
N208-FB0 = - - - - -

ΔP = Pressure drop (bar)
Q = Flow (Nl/min)

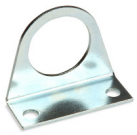


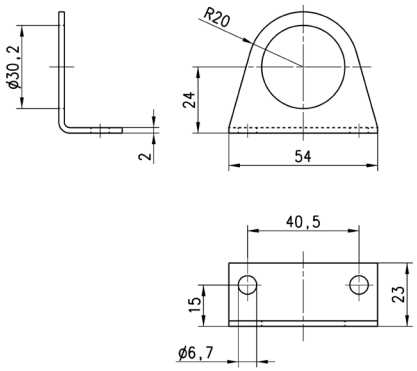
Flow diagram for models:
N204-FCA = _____
N208-FCA = - - - - -

ΔP = Pressure drop (bar)
Q = Flow (Nl/min)

Mounting bracket Mod. C114-ST

For regulators and filter-regulators (G1/4 - G1/8)



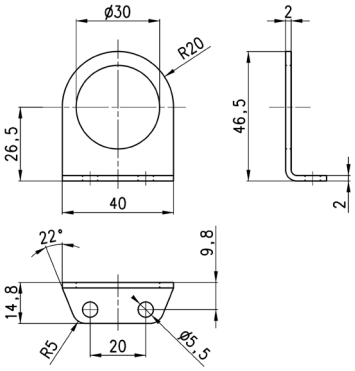


Material:
zinc-plated steel

Supplied with:
1x bracket

Mod.
C114-ST

Mounting bracket Mod. C114-ST/1



Material:
zinc-plated steel

Supplied with:
1x bracket

Mod.
C114-ST/1

Mounting bracket Mod. C114-ST/2

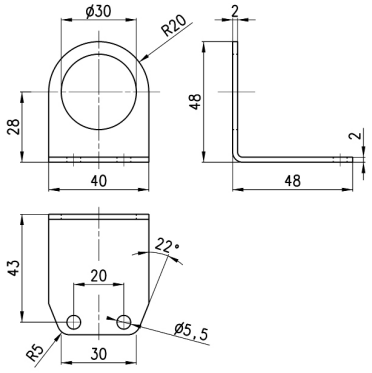
For regulators and filter-regulators (G1/4 - G1/8)

Material:
zinc-plated steel

Supplied with:
1x bracket

Material:
zinc-plated steel

Supplied with:
1x bracket



Mod.
C114-ST/2

Mounting bracket Mod. N204-ST

For filters and lubricators

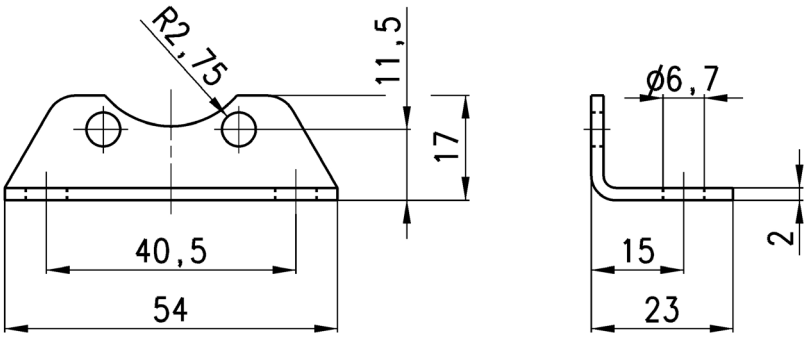
Materials: zinc-plated steel bracket and screws

The kit is supplied with:
1x bracket
2x screws M5X6

For filters and lubricators

Materials: zinc-plated steel bracket and screws

The kit is supplied with:
1x bracket
2x screws M5X6

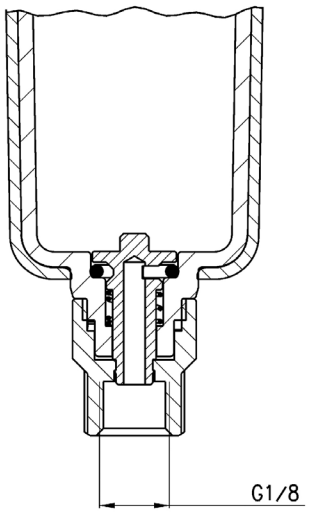


Mod.
N204-ST

Semi-automatic manual drain Type 0

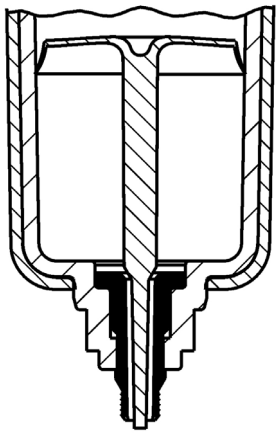
Functioning: with the operator mechanism turned clockwise, each time the pressure falls below 0,3 bar, the draining of condensate will be released; when resetting the pressure, the drain will close again.
The release can also be carried out manually; when the bowl is pressurised, the operator mechanism is pushed upwards.

Assembled with Filtering element 25µ, Filtering element 5µ, Filtering element 1µ, Filtering element 0.01µ.



Mod. filter	Bowl with semiautomatic manual drain
N10...-F	N1-F71
N10...-D	N1-F71
N10...-FB	N1-F71
N20...-F	N2-F71
N20...-D	N2-F71
N20...-FB	N2-F71
MC104-F	MC1-F71
MC104-D	MC1-F71
MC104-FB	MC1-F71
MC202-F	MC2-F71
MC202-D	MC2-F71
MC202-FB	MC2-F71
MC238-F	MC2-F71
MC238-D	MC2-F71
MC238-FB	MC2-F71
MX2...-F	MX2-F2-P
MX2...FR	MX2-F2-P
MX2...-FC	MX2-F2-P
MX3...-F	MX3-F2-P
MX3...-FR	MX3-F2-P
MX3...-FC	MX3-F2-P
MD1-F0..	MD1-FSP01
MD1-F1..	MD1-FSP04
MD1-FR0..	MD1-FSP01
MD1-FR1..	MD1-FSP04
MD1-FC0..	MD1-FCSP01
MD1-FC1..	MD1-FCSP04

Depressurisation drain (Type 4)



Functioning: each time air is required from the inlet, a slight difference of pressure is created between the upper part and lower part of the drain that rises, thus opening the exhaust valve.

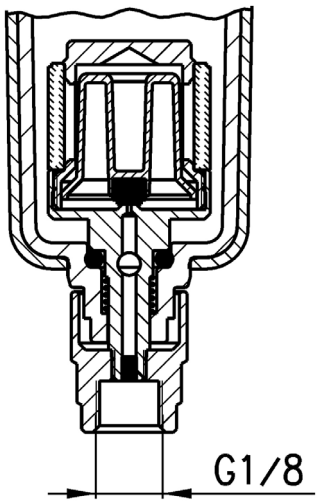
Assembled with Filtering element 25µ, Filtering element 5µ, Filtering element 0.01µ.

Mod. filter	Bowl with depressurization drain
N20...-F	N2-F71/2
N20...-D	N2-F71/2
N20...-FB	N2-F71/2
MC104-F	MC1-F71/2
MC104-D	MC1-F71/2
MC104-FB	MC1-F71/2

Depressurisation drain, protected (Type 5)

Solution similar to the Type 4 but requiring a ΔP = 1 bar.
Functioning: this version has a filtering element which prevents any impurities from clogging the exhaust hole.

Assembled with Filtering element 25µ, Filtering element 5µ, Filtering element 1µ, Filtering element 0.01µ.

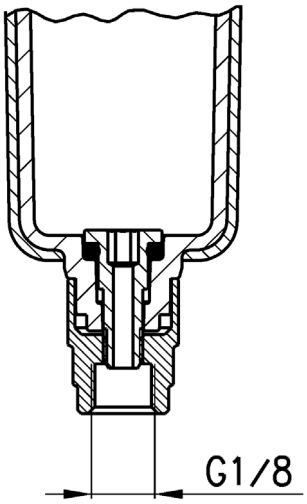


Mod. filter	Bowl with depressurization drain, protected
N20...-F	N2-F71/1
N20...-D	N2-F71/1
N20...-FB	N2-F71/1
MC104-F	MC1-F71/1
MC104-D	MC1-F71/1
MC104-FB	MC1-F71/1
MC202-F	MC2-F71/1
MC202-D	MC2-F71/1
MC202-FB	MC2-F71/1
MC238-F	MC2-F71/1
MC238-D	MC2-F71/1
MC238-FB	MC2-F71/1
MX2...-F	MX2-F2/3-P
MX2...FR	MX2-F2/3-P
MX2...-FC	MX2-F2/3-P
MX3...-F	MX3-F2/3-P
MX3...-FR	MX3-F2/3-P
MX3...-FC	MX3-F2/3-P
MD1-F0..	MD1-FSP03
MD1-F1..	MD1-FSP06
MD1-FR0..	MD1-FSP03
MD1-FR1..	MD1-FSP06
MD1-FC0..	MD1-FCSP03
MD1-FC1..	MD1-FCSP06

Bowl without drain (Type 8)

The solution with port G1/8 is used to assemble the items to the bowl which is realized with a through hole of Ø3 mm and a threaded port G1/8.

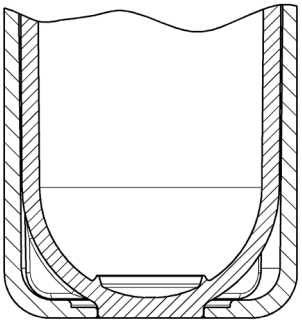
Assembled with Filtering element 25µ, Filtering element 5µ, Filtering element 1µ, Filtering element 0.01µ.



Mod. filter	Bowl without drain (1/8 port)
N10...-F	N1-F71-1/8
N10...-D	N1-F71-1/8
N10...-FB	N1-F71-1/8
N20...-F	N2-F71-1/8
N20...-D	N2-F71-1/8
N20...-FB	N2-F71-1/8
MC104-F	MC1-F71-1/8
MC104-D	MC1-F71-1/8
MC104-FB	MC1-F71-1/8
MC202-F	MC2-F71-1/8
MC202-D	MC2-F71-1/8
MC202-FB	MC2-F71-1/8
MC238-F	MC2-F71-1/8
MC238-D	MC2-F71-1/8
MC238-FB	MC2-F71-1/8
MX2...-F	MX2-F2/2-P
MX2...FR	MX2-F2/2-P
MX2...-FC	MX2-F2/2-P
MX3...-F	MX3-F2/2-P
MX3...-FR	MX3-F2/2-P
MX3...-FC	MX3-F2/2-P
MD1-F0..	MD1-FSP02
MD1-F1..	MD1-FSP05
MD1-FR0..	MD1-FSP02
MD1-FR1..	MD1-FSP05
MD1-FC0..	MD1-FCSP02
MD1-FC1..	MD1-FCSP05

Closed bowl

Assembled with Activated carbon filter.



Mod. filter	Closed bowl
N20...-FCA	N2-L71
MC104-FCA	MC1-L71
MC202-FCA	MC2-L71
MC238-FCA	MC2-L71
MX2..-FCA	MX2-L2-P
MX3..-FCA	MX3-L2-P
MD1-FCA..	MD1-FCASP01

Coalescing filters

Assembled with Semi-automatic manual drain, Automatic drain, Depressurisation drain, Depressurisation drain protected, Bowl without drain.

Mod. filter	Filtering element 0.01 µ
N10...-FB	MX1-F10
N20...-FB	MX1-F10
MC104-FB	MX1-F10
MC202-FB	MX2-F10
MC238-FB	MX2-F10
MX2...-FC	MX2-F10
MX3...-FC	MX3-F10
MD1-FC0.. *	MD1-F10