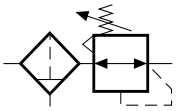
COMBINED FILTERS / REGULATORS

Modulair 105-107-112 ranges
G 1/8 to G 3/4



PRESENTATION

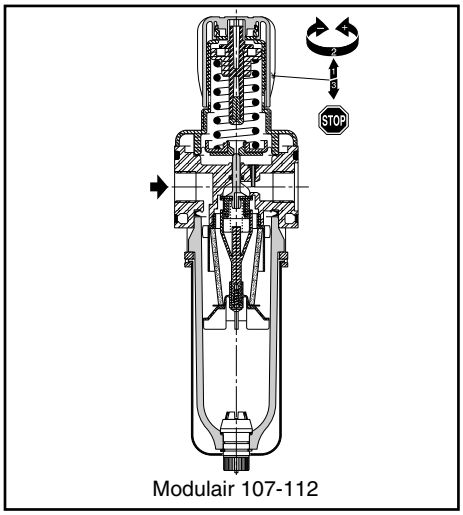
- *Quick installation and connection to systems: filter, regulator and lubricator functions in a "single unit"*
- *Light weight and robust design for direct installation on rigid piping*
- *Assembly of additional components without pipes or fittings: with «standard» kits*



SPECIFICATIONS

FLUID : Compressed air and neutral gas

RANGE	105	107	112	112
PORTS	G1/8 - G1/4	G1/8 - G1/4	G1/4...G1/2	G3/4
MAX. INLET PRESSURE (5) (bar)				
at 23°C	12	16	16	16
at 50°C	10	10	10	12
CONTROLLED PRESSURE (bar)	0,5 - 8	0,5 - 10	0,5 - 10	0,5 - 12
	See options for other values			
HYSTERESIS (bar)	0,35	0,3	0,2	0,2
AMBIENT TEMPERATURE (°C)	0°C to +50°C			
MAX. FLOW (Qv at 6,3 bar)	See table below and charts			
REGULATOR	Self-relieving			



Modulair 107-112

INDIVIDUAL SPECIFICATIONS AND CONSTRUCTION

■ MODULAIR 105
Filtering capacity: 25 µm (5 µm on request)
Semi-automatic drain (operating pressure: min. 1.2 bar)
Regulating device with a **rolling** diaphragm (very low hysteresis)

■ MODULAIR 107 and 112 ranges
Filtering capacity: 25 µm or 5 µm (10 and 50 µm on request)
Semi-automatic drain (operating pressure: min. 1.2 bar)
or automatic (operating pressure: 2 to **10 bar** max.) or manual
Metal bowl for Modulair 112 range (see page 26)
Regulating device with a **rolling** diaphragm (very low hysteresis)

INSTALLATION - MAINTENANCE

Systems must be installed with the bowls in vertical position (at the bottom). Air flow direction indicated by arrow **and «IN» - «OUT» marking on the body (Modulair 105). Use an alkaline solution (soapy water) and not a solvent** for cleaning the polycarbonate bowls and sight glasses

CHOICE OF EQUIPMENT

port sizet	MODULAIR range	bowl capacity	controlled pressure	flow (ANR) at upstream pressure	flow (ANR) at 6.3 bar pressure setpoint and ΔP of 1 bar / setpoint		code filtre regulator Ø mano	code filtre regulator semi-automatic drain with 0-12 bar gauge (1)	code filtre regulator semi-automatic drain without gauge	code filtre regulator purge automatique with 0-12 bar gauge (1)	code filtre regulator purge automatique without gauge
		(cm³)	(bar)	(bar)	l/min (ANR)	dm³/s (ANR)					
25 µm filtration - 0.5 - 8/10 bar adjustment - Polycarbonate bowl WITH protector (2)											
G1/8	**105**	28	0,5-8	8	550	9	40	**34225203**	**34225201**	-	-
G1/4	**105**	28	0,5-8	8	650	11	40	**34225204**	**34225202**	-	-
G1/8	**107**	50	0,5-10	8	700	11,7	40	**34204049**	**34204045**	-	-
G1/4	**107**	50	0,5-10	8	1500	26	40	**34204050**	**34204046**	-	-
G1/4	**112**	114	0,5-10	10	3200	53,3	50	**34203086**	**34203080**	**34203135**	**34203129**
G3/8	**112**	114	0,5-10	10	5200	86,6	50	**34203087**	**34203081**	**34203136**	**34203130**
G1/2	**112**	114	0,5-10	10	5600	93,3	50	**34203088**	**34203082**	**34203137**	**34203131**
25 µm filtration - 0,5 - 12 bar adjustment - Metal bowl WITH visualization (others versions see page 27)											
G3/4 (3)	**112**	114	0,5-12	10	5600	93,3	50	**34203A54**	**34203A53**	**34203A46**	**34203A45**
G3/4 (4)	**112**	114	0,5-12	10	5600	93,3	50	**34203B03**	**34203B02**	**34203A94**	**34203A93**
5 µm filtration - 0.5 - 10 bar adjustment - Polycarbonate bowl WITH protector (2)											
G1/8	**107**	50	0,5-10	8	600	10	40	**34204055**	**34204051**	-	-
G1/4	**107**	50	0,5-10	8	1100	18	40	**34204056**	**34204052**	-	-
G1/4	**112**	114	0,5-10	10	3200	53,3	50	**34203098**	**34203092**	**34203147**	**34203141**
G3/8	**112**	114	0,5-10	10	5200	86,6	50	**34203099**	**34203093**	**34203148**	**34203142**
G1/2	**112**	114	0,5-10	10	5600	93,3	50	**34203100**	**34203094**	**34203149**	**34203143**
5 µm filtration - 0,5 - 12 bar adjustment - Metal bowl WITH visualization (others versions see page 27)											
G3/4 (3)	**112**	114	0,5-12	10	5600	93,3	50	**34203A74**	**34203A73**	**34203A66**	**34203A65**
G3/4 (4)	**112**	114	0,5-12	10	5600	93,3	50	**34203B23**	**34203B22**	**34203B15**	**34203B14**

(1) 0-10 bar pressure gauge in Modulair 105 range
(2) Adjustment range 0.2 - 3 bar and other values on request
(3) Non intented for the combination
(4) Version intended for the combination of various functions (FRL - isolation valve etc ...), select the desired functions and obtain the necessary assembly kits and mounting brackets (see page 42)
(5) P max= 10 bar for version with automatic drain

25 µm filtration - 0,5 - 8/10 bar adjustment - Polycarbonate bowl WITHOUT protector (see following page)

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CHOICE OF EQUIPMENT

port size	MODULAIR range	bowl capacity	controlled pressure	flow (ANR) at upstream pressure	flow (ANR) at 6.3 bar pressure setpoint and ΔP of 1 bar / setpoint		code				
								filtre regulator			
								semi-automatic drain		purge automatique	
							Ø mano	with 0-12 bar gauge (1)	without gauge	with 0-12 bar gauge (1)	without gauge
		(cm³)	(µm)	(bar)	l/min (ANR)	dm³/s (ANR)					
25 µm filtration - 0,5 - 8/10 bar adjustment - Polycarbonate bowl WITHOUT protector											
G1/8	**105**	28	0,5-8	8	550	9	40	**34225123**	**34225121**	-	-
G1/4	**105**	28	0,5-8	8	650	11	40	**34225124**	**34225122**	-	-
G1/8	**107**	50	0,5-10	8	700	11,7	40	**34204073**	**34204069**	-	-
G1/4	**107**	50	0,5-10	8	1500	26	40	**34204074**	**34204070**	-	-
G1/4	**112**	114	0,5-10	10	3200	53	50	**34203372**	**34203340**	**34203378**	**34203375**
G3/8	**112**	114	0,5-10	10	5200	86	50	**34203373**	**34203341**	**34203379**	**34203376**
G1/2	**112**	114	0,5-10	10	5600	93,3	50	**34203374**	**34203342**	**34203380**	**34203377**

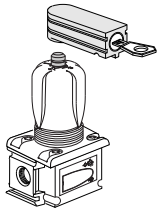
(1) 0-10 bar pressure gauge in Modulair 105 range

ACCESSORIES see page 42

OPTIONS

FOR FILTER/REGULATOR

- Metal bowl equipped with semi-automatic, automatic or manual drain for Modulair 112 range (see page 26)
- Polyamide bowl with protector for use in solvent-charged environments (Modulair 107 and 112 ranges)
- Manual drain for Modulair 105, 107 and112 ranges - code **662563** (Modulair 112 - fits on semi-automatic drain only)
- G3/4 version for Modulair 112, individual unit not for combination, polycarbonate bowl **with** bowl protector, controlled pressure range 0,5 – 10 bar, use code for G1/2 version + option code **662600**, example: 34203088 + 662600
- Filtering capacity:
  - 5 µm : (consult us for Modulair 105 range)
  - 10 µm: code **662555** (Modulair 107 range) - code **662535** (Modulair 112 range)
  - 50 µm: code **662556** (Modulair 107 range) - code **662536** (Modulair 112 range)
- Key locking device for adjustment knob, attached to knob, supplied installed on regulator, code: **662561** for Modulair 107 range, **662554** for Modulair 112 range. Others options or accessories, see page 46
- Adjustment range: 0.2 to 3 bar, for Modulair 105, 107 and 112 ranges (provide 40/50 mm dia. 0 - 4 bar pressure gauge)
  0.5 to 12 bar, for Modulair 107 and 112 ranges (provide 50 mm dia. 0 - 16 bar pressure gauge)
- Equipment for use in potentially **explosive atmospheres** caused by dusts or gases (ATEX Directive 94/9/EC)

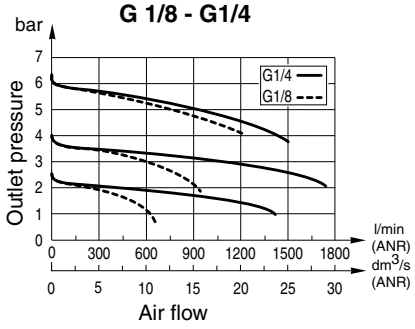


zones	⟨Ex⟩ classification	groupe de gaz	ATEX option code Modulair 105	Modulair 107		Modulair 112	
				with bowl protector	without bowl protector	with bowl protector	without bowl protector
2-22	II3GD **c** T 85°C (T6)	IIA-IIB-IIC	**612077**	**612073**		**612021**	
1-21	II2GD **c** IIB T85°C (T6)	IIB	**612076**	**612072**		**612023**	
1-21	II2GD **c** IIC T85°C (T6)	IIC	-	**612064**	-	**612062**	-

PRESSURE LOSS VERSUS AIR FLOW CURVES

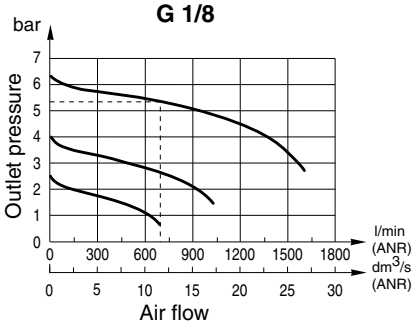
MODULAIR 105

G 1/8 - G1/4

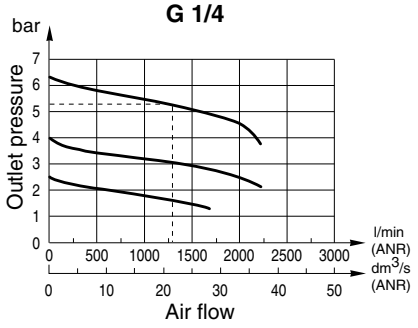


MODULAIR 107

G 1/8

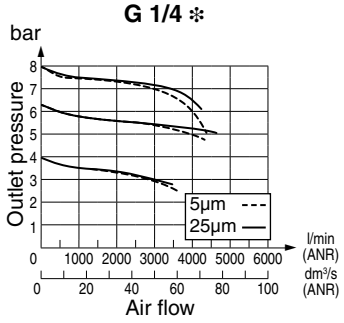


G 1/4

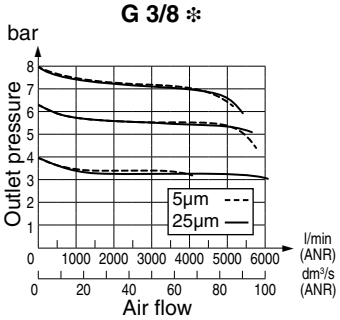


MODULAIR 112

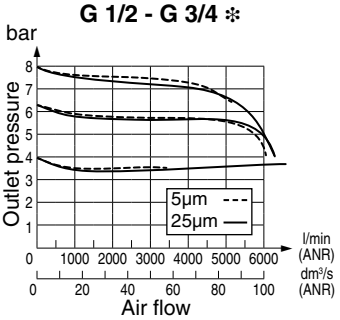
G 1/4 ❊



G 3/8 ❊



G 1/2 - G 3/4 ❊

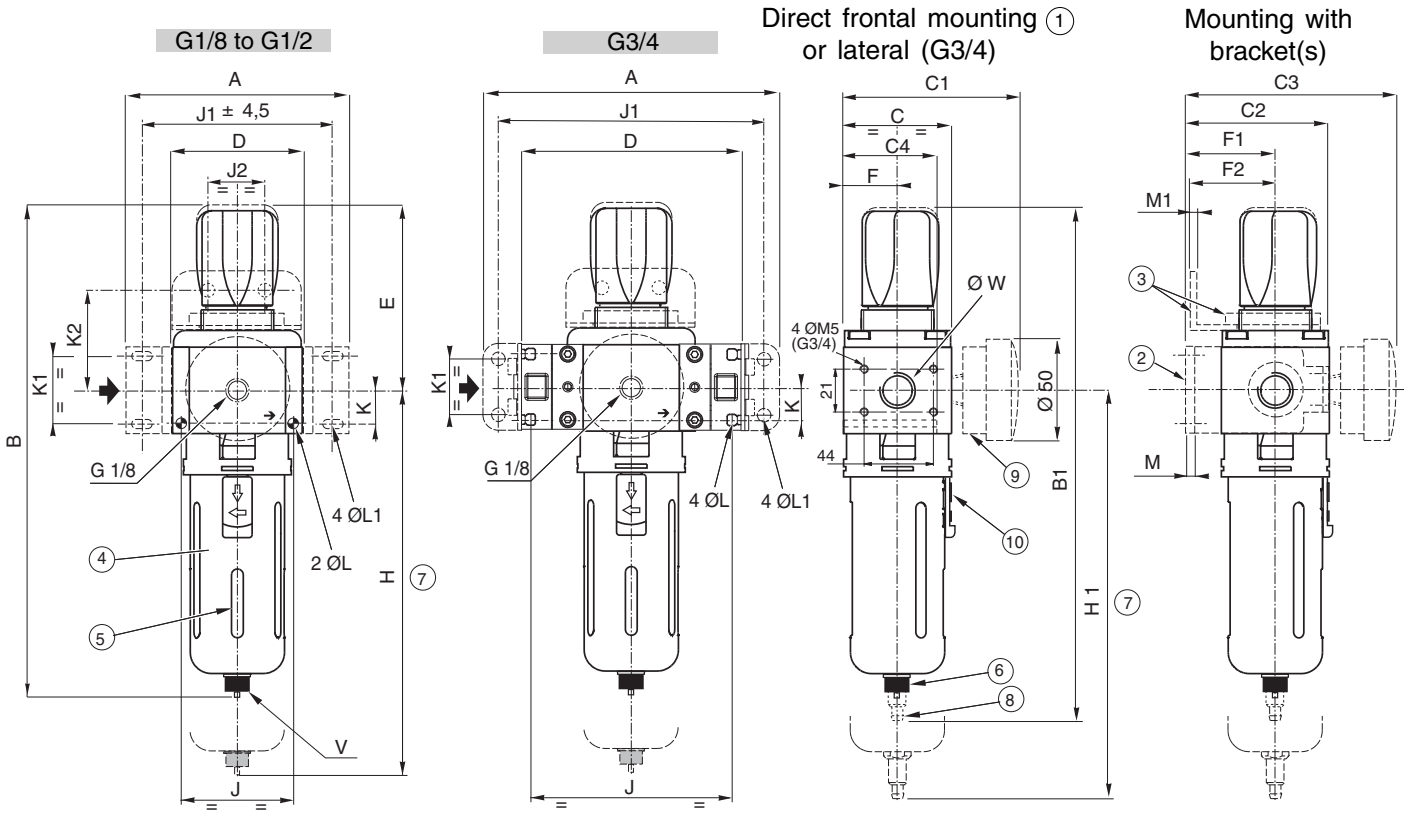


❊ according to ISO 6953 standards

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DIMENSIONS AND WEIGHTS

MODULAIR 107 - 112



range	Modulair 107	Modulair 112	Modulair 112
Ø W	G1/8 G1/4	G1/4 G3/8 G1/2	G3/4
Bowl (cl)	7	12	12
A	83	112	154
B	213	251	251
B1	-	262	262
C	42	55	55
C1	76	87	87
C2	61	73,5	69,5
C3	95	105	101,5
C4	38	47,5	47,5
D	42	66	114
E	79	94,5	94,5
F	21	27,5	27,5
F1	40	46	42
F2	42	42	42
H	190	221,5	221,5
H1	-	232,5	232,5
J	32	57	105
J1	68,5	96	138
J2	29	29	29
K	10	17	17
K1	28	33,5	29
K2	37,5	42,5	42,5
ØL	4,1	5,5	5,5
ØL1	4,5	5,5	4
M	3	4	2
M1	2	2	2
V	G1/8	G1/8	G1/8
Weight (kg)	0,380(1)	0,830(1) 0,910(2)	1,160(1) 1,240(2)

(1) Weight without pressure gauge
(2) Weight with automatic drain

(1) Direct frontal mounting (G1/8 - G1/2) : 2 holes ØL and depth C4
(2) Mounting with 2 side brackets (accessory)
(3) Mounting with top bracket and mounting ring (accessory)
(4) Metal bowl protector with transparent polycarbonate bowl
(5) Condensate level window
(6) G 1/8 connectable semi-automatic drain
(7) Clearance necessary for bowl removal
(8) Automatic drain with fitting for connection of 6 mm ID hose (Modulair 112 range)
(9) 40 mm dia. pressure gauge (Modulair 107 range)
or 50 mm dia. pressure gauge (Modulair 112 range)
(10) Protector unlocking button

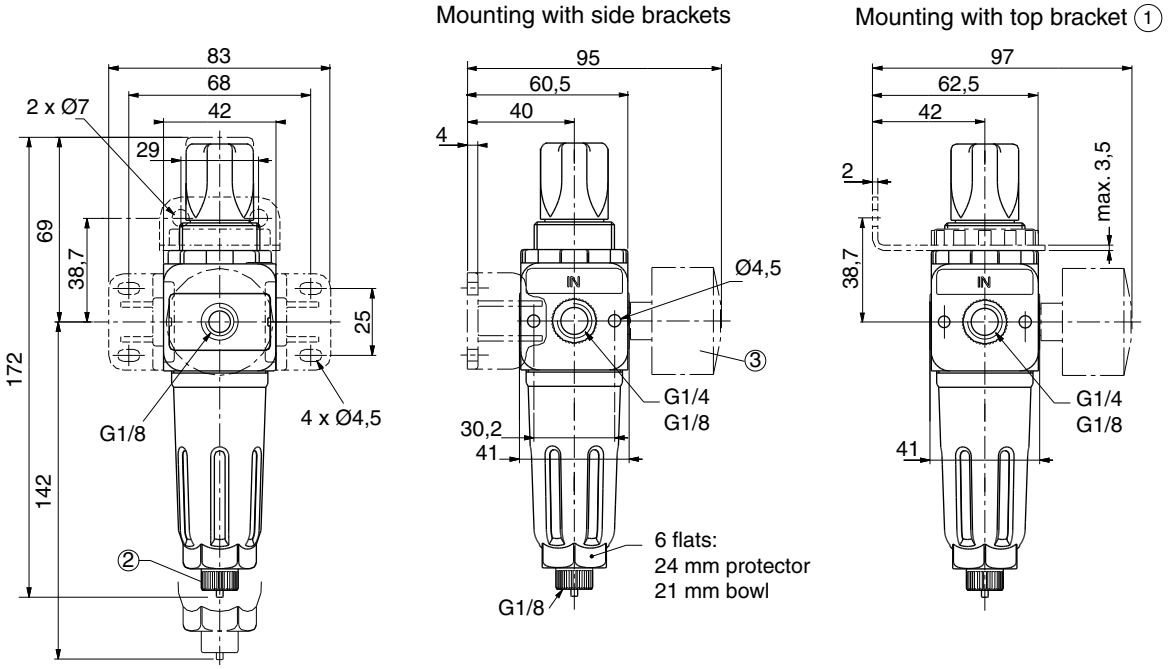
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DIMENSIONS AND WEIGHTS

Weight : 0,190 kg

MODULAIR 105



① Mounting with top bracket (accessory) and mounting ring

② Semi-automatic drain, connectable to G1/8 port

③ 40 mm dia. pressure gauge

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