numatics

FILTER, REGULATOR + LUBRICATOR SYSTEMS

Modulair 112 type - G 1/4 to G 3/4

METAL BOWL (with or without sight glass)

Series **342**

Type Modulair

PRESENTATION

- *Resistance to high temperatures (+50°C)*
- *Resistance to impact, UV light and solvents*
- *Working pressures up to 16 bar (F and F/R)*
- *Bowl always locked in place during operation*

SPECIFICATIONS

FLUID : Compressed air or neutral gas
PORTS : G1/4 to G1/2
MAX. INLET PRESSURE F, FR : 16 bar at 50° C
L : 12 bar at 23°C / 10 bar at 50° C
AMBIENT TEMPERATURE : 0°C to + 50°C
MAX. FLOW (Qv at 6,3 bar) : see table

INDIVIDUAL SPECIFICATIONS AND CONSTRUCTION

■ FILTER

Filtering capacity: 25 µm and 5 µm (10 and 50 µm on request)
Filtering element of polyethylene (PE)
Painted zamak body
Painted aluminium bowl
Max. condensate level sight glass (polycarbonate: G3/4)
Condensate drain: semi-automatic (operating pressure: 1.2 to 10/16 bar)
or pipable automatic (operating pressure: 2 to **10 bar**) or manual drain as option.

■ COMBINED FILTER/REGULATOR

Filtering capacity: 25 µm and 5 µm (10 and 50 µm on request)
Painted zamak body
Painted aluminium bowl
Max. condensate level sight glass (polycarbonate: G3/4)
Semi-automatic drain (operating pressure: 1.2 to 16 bar)
or automatic (operating pressure: 2 to **10 bar** max.) or manual
Regulating device with a **rolling** diaphragm (very low hysteresis: 0,2 bar)
Regulator self-relieving
Controlled pressure: 0,5 to 10 bar (other adjustment range, in option)

■ LUBRICATOR

Painted zamak body
Painted aluminium bowl
Min. oil level sight glass (polycarbonate: G3/4)
«Pull-turn-push» locking oil flow adjustment knob
Lubrication: selective oil fog
Lubricator oil refilling **pressurised/unpressurised**

Version G3/4

INSTALLATION

Systems must be installed with the bowls in vertical position
Air flow direction indicated by arrow. Adjust oil flow. Adjustment sight glass

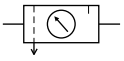
MAINTENANCE

Drain filter if necessary. Recommended type of oil: Non-detergent and without aggressive additives, viscosity **VG32** (ISO 3448)

CHOICE OF EQUIPMENT

■ COMBINED FILTER/REGULATOR + LUBRICATOR SYSTEMS

Consisting of two components delivered installed and assembled



(**SEPARATE COMPONENTS:** see following page)

MODULAIR type	Port size	Bowl capacity (cm³)	controlled pressure (2) (bar)	débit (ANR) at upstream pressure = 10 bar at 6.3 bar pressure setpoint and ΔP of 1 bar / setpoint min. (1) (l/min)	min. (dm³/s)	max. (l/min)	max. (dm³/s)	code system Ø mano	semi-automatic drain with 0-12 bar gauge	semi-automatic drain without gauge	automatic drain with 0-12 bar gauge	automatic drain without gauge
metal bowl WITHOUT sight glass - 25 µm filtration - adjustment 0,5 - 10 bar												
	G1/4	114	0,5-10	20	0,3	3200	53	50	**34203408**	**34203405**		
112	G3/8	114	0,5-10	20	0,3	5200	87	50	**34203409**	**34203406**	option : **662539** (3)	
	G1/2	114	0,5-10	20	0,3	5600	93	50	**34203410**	**34203407**		
metal bowl WITH sight glass - 25 µm filtration - adjustment 0,5 - 10 bar												
	G1/4	114	0,5-10	20	0,3	3200	53	50	**34203900**	**34203897**		
	G3/8	114	0,5-10	20	0,3	5200	87	50	**34203901**	**34203898**	option : **662539** (3)	
112	G1/2	114	0,5-10	20	0,3	5600	93	50	**34203902**	**34203899**		
	G3/4 (4)	114	0,5-12	20	0,3	5600	93	50	**34203B67**	**34203B66**	**34203B59**	**34203B58**
	G3/4 (5)	114	0,5-12	20	0,3	5600	93	50	**34203C08**	**34203C07**	**34203B99**	**34203B98**

(1) Minimum for lubricator startup
(2) Other adjustment ranges (0.2 - 3 bar or 0,5 - 12 bar) on request (see options)
(3) Version with automatic drain: add option code to code of standard version with semi-automatic drain, e.g.: 34203902 + **662539**
(4) Non intented for the combination
(5) 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)

ACCESSORIES: see page 42
OPTIONS, SEPARATE COMPONENTS: see following page

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CHOICE OF EQUIPMENT - SEPARATE COMPONENTS

■ FILTER

MODULAIR type	port size	bowl capacity total (cm³)	bowl capacity useful (cm³)	maximum flow (at 10 bar / ΔP 1,5 bar) 25 µm (2) l/min (ANR)	maximum flow (at 10 bar / ΔP 1,5 bar) 25 µm (2) dm³/s (ANR)	code filter semi-automatic drain 25 µm	code filter semi-automatic drain 5 µm (2)	code filter automatic drain 25 µm	code filter automatic drain 5 µm (2)
Metal bowl WITHOUT sight glass									
	G1/4	114	40	2600	43	**34203025**	**34203031**		
112	G3/8	114	40	3000	50	**34203026**	**34203032**	option : **662539** (4)	
	G1/2	114	40	3800	63	**34203027**	**34203033**		
Metal bowl WITH sight glass									
	G1/4	114	40	2600	43	**34203909**	**34203894**		
	G3/8	114	40	3000	50	**34203910**	**34203895**	option : **662539** (4)	
112	G1/2	114	40	3800	63	**34203911**	**34203896**		
	G3/4 (5)	114	40	5000	83	**34203A03**	**34203A09**	**34203A01**	**34203A07**
	G3/4 (6)	114	40	5000	83	**34203A23**	**34203A29**	**34203A21**	**34203A27**

■ COMBINED FILTER/REGULATOR

MODULAIR type	port size	bowl capacity (cm³)	controlled pressure (3) (bar)	flow at upstream pressure = 10 bar at 6.3 bar pressure setpoint and ΔP of 1 bar / setpoint l/min (ANR)	flow dm³/s (ANR)	code filter/regulator Ø mano	semi-automatic drain with 0-12 bar gauge	semi-automatic drain without gauge	automatic drain with 0-12 bar gauge	automatic drain without gauge
Metal bowl WITHOUT sight glass - 25 µm filtration - adjustment 0,5 - 10 bar										
	G1/4	114	0,5-10	3200	53	50	**34203176**	**34203170**		
112	G3/8	114	0,5-10	5200	86	50	**34203177**	**34203171**	option : **662539** (4)	
	G1/2	114	0,5-10	5600	93	50	**34203178**	**34203172**		
Metal bowl WITH sight glass - 25 µm filtration - adjustment 0,5 - 10/12 bar										
	G1/4	114	0,5-10	3200	53	50	**34203906**	**34203903**		
112	G3/8	114	0,5-10	5200	86	50	**34203907**	**34203904**	option : **662539** (4)	
	G1/2	114	0,5-10	5600	93	50	**34203908**	**34203905**		
	G3/4 (5)	114	0,5-12	5600	93	50	**34203A54**	**34203A53**	**34203A46**	**34203A45**
	G3/4 (6)	114	0,5-12	5600	93	50	**34203B03**	**34203B02**	**34203A94**	**34203A93**
Metal bowl WITHOUT sight glass - 5 µm filtration - adjustment 0,5 - 10 bar										
	G1/4	114	0,5-10	3200	53	50	**34203188**	**34203182**		
112	G3/8	114	0,5-10	5200	86	50	**34203189**	**34203183**	option : **662539** (4)	
	G1/2	114	0,5-10	5600	93	50	**34203190**	**34203184**		
Metal bowl WITH sight glass - 5 µm filtration - adjustment 0,5 - 10/12 bar										
	G1/4	114	0,5-10	3200	53	50	**34203891**	**34203888**		
	G3/8	114	0,5-10	5200	86	50	**34203892**	**34203889**	option : **662539** (4)	
112	G1/2	114	0,5-10	5600	93	50	**34203893**	**34203890**		
	G3/4 (5)	114	0,5-12	5600	93	50	**34203A74**	**34203A73**	**34203A66**	**34203A65**
	G3/4 (6)	114	0,5-12	5600	93	50	**34203B23**	**34203B22**	**34203B15**	**34203B14**

■ LUBRICATOR

MODULAIR type	port size	bowl capacity (cm³)	max. oil capacity (cm³)	flow at 6.3 bar min. (1) l/min (ANR)	flow at 6.3 bar min. (1) dm³/s (ANR)	flow at 6.3 bar max. l/min (ANR)	flow at 6.3 bar max. dm³/s (ANR)	code lubrificator with metal bowl with sight glass
	G1/4	114	73	20	0,3	3900	65	**34203381**
	G3/8	114	73	20	0,3	> 6500	>108	**34203382**
112	G1/2	114	73	20	0,3	> 6500	>108	**34203383**
	G3/4 (5)	114	73	20	0,3	> 6500	>108	**34203A41**
	G3/4 (6)	114	73	20	0,3	> 6500	>108	**34203A43**

(1) Minimum for lubricator startup
(2) With a 5 µm filtering element, max. flow is reduced by approx. 15%
(3) Others adjustment range 0.2 - 3 bar or 0,5 - 12 bar on request (see options)
(4) Version with automatic drain: add option code of standard version with semi-automatic drain, e.g. 34203908 + **662539**
(5) Non intented for the combination
(6) 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)

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ACCESSORIES: see page 42

OPTIONS

General options are same as those for products with bowl protectors: see page 2

Specific options:

- Manual drain on metal bowl WITHOUT sight glass: add option code **662563** to code of standard version with semi-automatic drain, e.g. 34203178 + **662563**
- Manual drain on metal bowl WITH sight glass: complete code (consult us)
- For filter, combined filter/regulator, lubricator
  - Metal bowl with 2 glass visualization windows, code: **662576**
  - Metal bowl with 2 polyamide visualization windows, code: **662595**
- For combined filter/regulator + lubricator
  - Metal bowl with 2 glass visualization windows, code: **662594**
  - Metal bowl with 2 polyamide visualization windows, code: **662596**

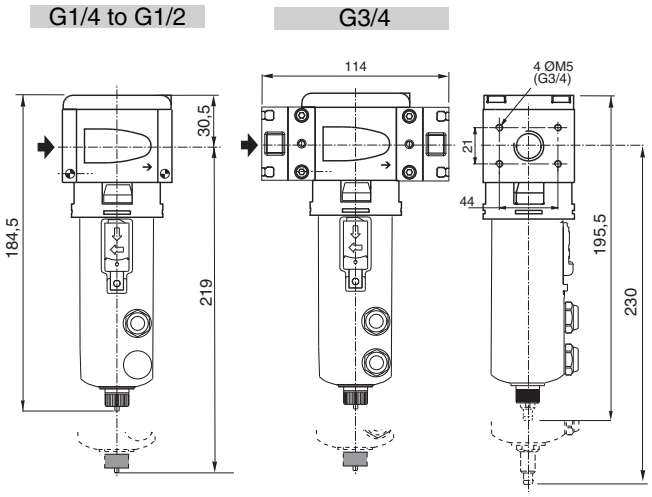
OPTION

- Equipment for use in potentially **explosive atmospheres** caused by dusts or gases (ATEX Directive 94/9/EC)

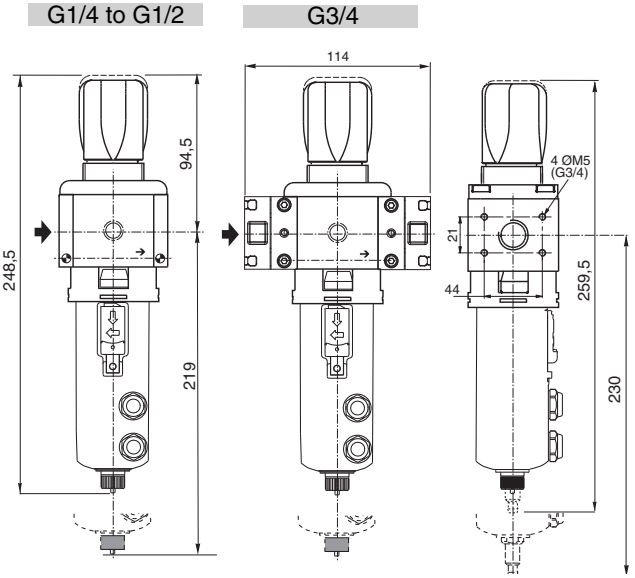
zones	⟨Ex⟩ classification	gas group	ATEX option code	
			combined filter-regulator-lubricator	separate components
2-22	II3GD **c** T 85°C (T6)	IIA-IIB-IIC	**612022**	**612021**
1-21	II2GD **c** IIC T85°C (T6)	IIC	**612063**	**612062**

DIMENSIONS

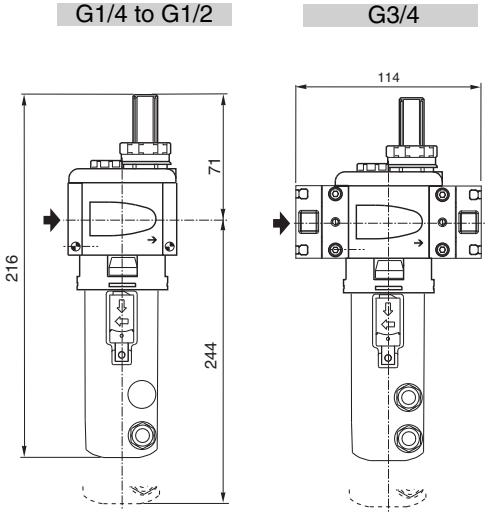
MODULAIR 112 FILTER WITH METAL BOWL

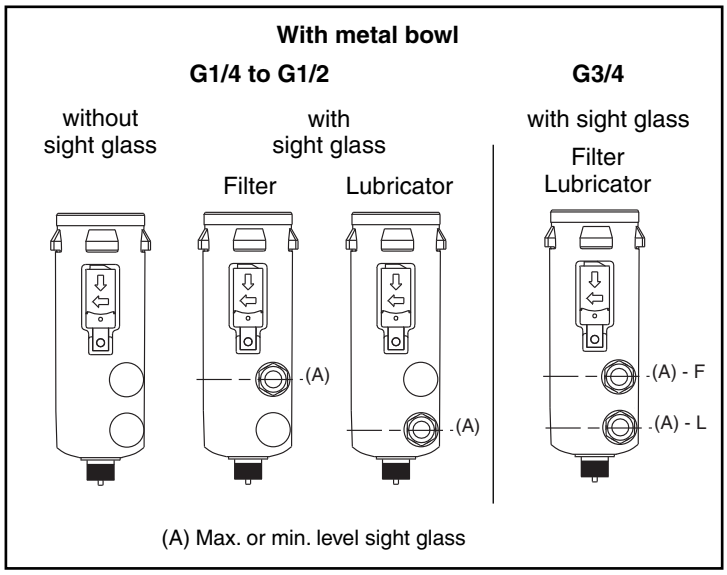


MODULAIR 112 FILTER/REGULATOR WITH METAL BOWL



MODULAIR 112 LUBRICATOR WITH METAL BOWL





Other dimensions identical to version with bowl protector

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