FEATURES

- Stainless Steel Filter, Regulator and Filter Regulator intended for corrosive environment and suitable for use in potentially explosive atmosphere caused by gases, vapours, mists and/or dust according to new ATEX directive 2014/34/EU.

SAFETY CODE:
- II 2GD IIC T100°C (T5), with 90°C ambient temperature
- II 2GD IIC T85°C (T6), with 75°C ambient temperature

(ZONE 1-21) Explosion group IIC

- CU-TR certified for potentially explosive atmospheres
- Functional Safety: IEC 61508, SIL certified
- Comply with the European Essential Health and Safety Requirements (EN13643-1)
- All internal metal parts made of 316/316L stainless steel
- Built-in overpressure relieving function, non-relieving option available
- 316L Stainless Steel body, bonnet and bowl
- Internal springs made of INCONEL® to suit sour gas environment complying to NACE MR0175/ISO 15156

(1) Only available for High Flow SS FR as an option
INCONEL® is trademark of the Special Metals Corporation group of companies

BENEFITS

- Precise tuning and regulation - using dual spring design
- Improved regulation accuracy - with pitot tube feedback
- Effective moisture removal - using fin diverters to create centrifugal action
- Long lasting product labelling - laser etched marking on stainless steel bowl

(2) Only available for High Flow SS FR
(3) Only available for Compact SS FR

CHARACTERISTICS

<table>
<thead>
<tr>
<th></th>
<th>Compact</th>
<th>High Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluids</td>
<td>Compressed air, neutral gas, natural gas</td>
<td>Compressed air, neutral gas, natural gas &amp; sour natural gas</td>
</tr>
<tr>
<td>Compliance to NACE for sour Gas environment</td>
<td>No</td>
<td>Yes (as an option)</td>
</tr>
<tr>
<td>Ports</td>
<td>1/4</td>
<td>1/4 &amp; 1/2</td>
</tr>
<tr>
<td>Threads</td>
<td>NPT</td>
<td>G as an option</td>
</tr>
<tr>
<td>Pressure range (inlet)</td>
<td>0 - 20 bar (Manual Drain)</td>
<td>2,5 - 11 bar (Auto Drain)</td>
</tr>
<tr>
<td>Regulating pressure (outlet)</td>
<td>0,5 - 10 bar</td>
<td></td>
</tr>
<tr>
<td>Regulation</td>
<td>By hexagonal head screw with nut</td>
<td></td>
</tr>
<tr>
<td>Hysteresis</td>
<td>&lt; 0,32 bar</td>
<td>&lt; 0,2 bar</td>
</tr>
<tr>
<td>Filtering capacity</td>
<td>25 µm &amp; 5 µm</td>
<td></td>
</tr>
<tr>
<td>Operating temperature (°C)</td>
<td>-40°C to +90°C</td>
<td></td>
</tr>
<tr>
<td>Low temperature option</td>
<td>-50°C</td>
<td>-60°C</td>
</tr>
<tr>
<td>Condensate Drain</td>
<td>Manual &amp; Automatic</td>
<td></td>
</tr>
</tbody>
</table>

(4) Operating temperature for Automatic Drain: +0°C to +60°C

CONSTRUCTION

<table>
<thead>
<tr>
<th></th>
<th>Compact</th>
<th>High Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body, bonnet &amp; bowl</td>
<td>AISI 316L SS</td>
<td>AISI 316L SS</td>
</tr>
<tr>
<td>Filtering element</td>
<td>AISI 316 SS</td>
<td></td>
</tr>
<tr>
<td>Diaphragm</td>
<td>LT FPM</td>
<td>LT FPM / HNBR</td>
</tr>
<tr>
<td>Elastomers</td>
<td>FPM</td>
<td></td>
</tr>
</tbody>
</table>
**PRODUCT CODE**

| 342 | A | 8 | 0 | 0 | 1 | AD |

**Options**
- **AD** = Automatic Drain
- **AN** = Automatic Drain with 1/8 NPT connection
- **D** = Right-to-left flow sense
- **G** = 316 SS pressure gauge
- **LT** = Low Temperature
- **MB** = 316L SS Mounting Brackets

**(3)** A special low temperature 316 SS pressure gauge will be delivered.

**(4)** Not mounted onto the product

**F/R/FR type**
- **8** = SS Filter Regulator (FR)
- **9** = Filter (F)
- **A** = Regulator (R)

**Pressure relief / vent hole**
- **0** = Non relief diaphragm type
- **2** = Ø M5 thread
- **4** = Ø 1/8 NPT

**Certifications & approvals**
- **0** = ATEX 1/21
- **1** = ATEX 1/21 + CUTR
- **2** = ATEX 1/21 + NACE
- **3** = ATEX 1/21 + NACE + CUTR

**(1)** Not available for Compact version

**(2)** Bonnet with Ø 1/8 NPT thread

**NOTE: Please refer to our online configurator for option combinations availability**

**ORDERING EXAMPLE**
1. High-Flow stainless steel Filter Regulator (1/4” NPT, 25 µm filtration) with Auto Drain, pressure gauge & mounting bracket
   - Product Code: 342A8201ADGMB
2. Compact low temperature stainless steel Filter Regulator (1/4” NPT, 25 µm filtration) with low temperature pressure gauge & mounting bracket
   - Product Code: 342A8209GLTMB

**MAXIMUM FLOW VALUES**

<table>
<thead>
<tr>
<th>Construction Type</th>
<th>Maximum Flow Values Following ISO Standards 5782, 6358 and 6953</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Filter</strong></td>
<td>Inlet pressure = 6.3 bar and ΔP = 1 bar</td>
</tr>
<tr>
<td><strong>Regulator</strong></td>
<td>Inlet pressure = 10 bar, setpoint = 6.3 bar and ΔP = 1 bar</td>
</tr>
<tr>
<td><strong>Filter Regulator</strong></td>
<td>Inlet pressure = 10 bar, setpoint = 6.3 bar and ΔP = 1 bar</td>
</tr>
</tbody>
</table>

**Compact**

<table>
<thead>
<tr>
<th>Compact</th>
<th>High Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>l/min (ANR)</strong></td>
<td><strong>l/min (ANR)</strong></td>
</tr>
<tr>
<td>1/4</td>
<td>1/4</td>
</tr>
<tr>
<td>5 µm</td>
<td>25 µm</td>
</tr>
<tr>
<td>1780</td>
<td>2600</td>
</tr>
<tr>
<td>3120</td>
<td>7800</td>
</tr>
<tr>
<td>1280</td>
<td>1400</td>
</tr>
</tbody>
</table>
**SERIES 342**

**AUTO DRAIN**

**HIGH FLOW & COMPACT SS FR**

- **Maximum inlet pressure**: 11 bar
- **Operating pressure**: 2.5 - 10 bar
- **Operating temperature**: 0°C to +60°C
- **Metal parts**: 316L SS
- **Elastomers**: FPM
- **Float material**: Thermoplastic polymer
- **Adaptor (316 SS) for 1/8 NPT conversion “AN” as option

**PRESSURE GAUGE**

- **Pressure**: 0 - 12 bar
- **Diameter**: Ø 63 mm
- **Gauge port size**: 1/4" NPT

**MOUNTING BRACKET**

- **Material**: 316L Stainless Steel
- **Part number**: C117813

**FILTER**

- **Diameter**: Ø 63 mm
- **Part number**: C117813

**FILTER REGULATOR**

- **Metal parts**: 316L SS
- **Elastomers**: FPM
- **Protection**: IP65; Safety glass; Fixed crimped case to avoid accidental dismounting
- **Part number**: C325316

**INSTALLATION**

- Installation/Maintenance instructions are included with each Filter/Regulator
- Air flow direction indicated by IN/OUT as well as inlet & outlet indicators
- Pipe connection has standard thread according to NPT (ANSI 1.20.3)

**DIMENSIONS(mm), WEIGHT(kg)**

**FILTER**

- Ø 63 mm

**REGULATOR**

- Ø 63 mm

**MOUNTING BRACKET**

- Ø 63 mm

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*Note: Mounting hole size M6 for Hi-Flow SS FR and mounting hole size M5 for Compact SS FR*

All leaflets are available on: [www.asconumatics.eu](http://www.asconumatics.eu)
**SPARE PARTS KITS**

<table>
<thead>
<tr>
<th>Type</th>
<th>Filtering Capacity</th>
<th>Spare Parts Kit Number</th>
<th>Spare Parts Kit Number Low Temp</th>
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</thead>
<tbody>
<tr>
<td>Filter</td>
<td>25 µm</td>
<td>C325309</td>
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</tr>
<tr>
<td>Regulator</td>
<td>-</td>
<td>C325311</td>
<td>C325993</td>
</tr>
<tr>
<td>Filter</td>
<td>25 µm</td>
<td>C325305</td>
<td>C325994</td>
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<tr>
<td>Regulator</td>
<td>5 µm</td>
<td>C325307</td>
<td>C325995</td>
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<tr>
<td>Filter</td>
<td>5 µm</td>
<td>C325921</td>
<td>C325996</td>
</tr>
<tr>
<td>Regulator</td>
<td>5 µm</td>
<td>C325922</td>
<td>C325997</td>
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</table>

**DIMENSIONS (mm), WEIGHT (kg)**

<table>
<thead>
<tr>
<th>Type</th>
<th>OD NPT</th>
<th>Weight (kg)</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
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<tbody>
<tr>
<td><strong>HIGH FLOW</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Filter</td>
<td>1/4</td>
<td>0,730</td>
<td>60</td>
<td>163,6</td>
<td>162,5</td>
<td>170,5</td>
<td>32</td>
<td>13,75</td>
<td>Ø67</td>
<td>51</td>
<td></td>
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<tr>
<td>Regulator</td>
<td>1/2</td>
<td>1,232</td>
<td>60</td>
<td>151,3</td>
<td>-</td>
<td>-</td>
<td>32</td>
<td>12,75</td>
<td>Ø67</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Filter</td>
<td>1/4</td>
<td>1,980</td>
<td>60</td>
<td>256</td>
<td>254</td>
<td>261</td>
<td>32</td>
<td>12,75</td>
<td>Ø67</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Regulator</td>
<td>1/2</td>
<td></td>
<td>65</td>
<td>51</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>COMPACT</strong></td>
<td></td>
<td></td>
<td></td>
<td>1,0</td>
<td>45</td>
<td>195</td>
<td>223</td>
<td>233</td>
<td>20</td>
<td>10</td>
<td>Ø53,5</td>
</tr>
</tbody>
</table>

**PRESSURE DROP vs. AIR FLOW CURVES**

**St. steel Filter 1/2 NPT Ref.: 342A9007**
Filtration 5 µm with P inlet 4 - 6,3 - 8 - 10 bar

**St. steel Filter 1/2 NPT Ref.: 342A9003**
Filtration 25 µm with P inlet 4 - 6,3 - 8 - 10 bar

**St. steel Filter 1/4 NPT Ref.: 342A9005**
Filtration 5 µm with P inlet 4 - 6,3 - 8 - 10 bar

**St. steel Filter 1/4 NPT Ref.: 342A9001**
Filtration 25 µm with P inlet 4 - 6,3 - 8 - 10 bar
PRESSURE DROP vs. AIR FLOW CURVES

St. steel Regulator 1/2 NPT Ref.: 342AA403
P inlet 10 b - setpoint 4 - 6,3 - 8 bar

St. steel Regulator 1/4 NPT Ref.: 342AA401
P inlet 10 b - setpoint 4 - 6,3 - 8 bar

St. steel Filter Regulator 1/2 NPT Ref.: 342A8203
Filtration 25 μm with P inlet 10 b - setpoint 3,15 - 5 - 6,3 bar

St. steel Filter Regulator 1/4 NPT Ref.: 342A8201
Filtration 25 μm with P inlet 10 b - setpoint 3,15 - 5 - 6,3 bar

St. steel Filter Regulator 1/2 NPT Ref.: 342A8207
Filtration 5 μm with P inlet 10 b - setpoint 3,15 - 5 - 6,3 bar

St. steel Filter Regulator 1/4 NPT Ref.: 342A8205
Filtration 5 μm with P inlet 10 b - setpoint 3,15 - 5 - 6,3 bar

All leaflets are available on: www.asconumatics.eu
PRESSURE DROP vs. AIR FLOW CURVES

St. steel Filter Regulator 1/4 NPT Ref: 342A820B
Filtration 5 μm with P inlet 10 b - setpoint 3.15 - 5 - 6.3 bar

St. steel Filter Regulator 1/4 NPT Ref.: 342A8209
Filtration 25 μm with P inlet 10 b - setpoint 3.15 - 5 - 6.3 bar