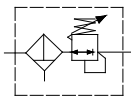


AISI316L 1/4"NPT high flow filter regulator – FRH serie

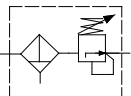
Filtro regolatore ad alta portata da 1/4"NPT in AISI316L – serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X II 2D Ex h IIIC T85°C/T100°C Db X

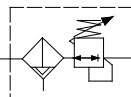
- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE II 2G Exh IIC T6/T5 Gb X II 2D Ex h IIIC T85°C/T100°C Db X



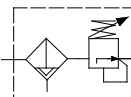
Manual Drain Relieving



Manual Drain Non Relieving



Automatic Drain Relieving



Automatic Drain Non Relieving

|                                                                 |                                                                                                  |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Media / Fluido                                                  | Compressed air, inert gases, sweet and sour gases                                                |
| Port thread / Conessioni                                        | 1/4"NPT                                                                                          |
| Gauge Connection<br>Connessione manometro                       | 1/8"NPT (1/4"NPT option)                                                                         |
| Filtering element<br>Elemento filtrante                         | 3, 5, 25, 40 micron in st. st. 316                                                               |
| Max inlet pressure<br>Pressione massima di ingresso             | 30bar (16bar automatic drain version)                                                            |
| Drain valve / Scarico condensa                                  | Manual or automatic                                                                              |
| Flow Rate (@10bar inlet, 6bar regulated, delta P=1bar)/ Portata | 1200dm3/min Cv=1.2                                                                               |
| Working Temperature<br>Temperatura di esercizio                 | -20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)* |
| Regulated pressure<br>Pressioni regolate                        | 0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar                                                           |

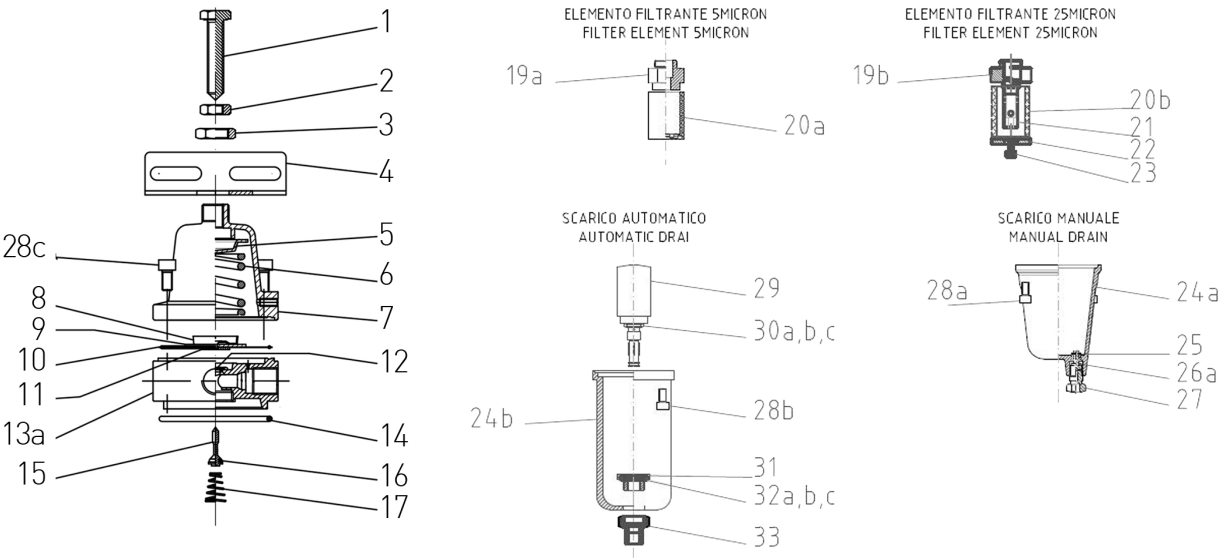
Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

\*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and filtering for a wide range of applications. Rugged and corrosion-resistant – made of 316L stainless steel -Compact small package size – light weight  
Permette un'accurata regolazione e filtraggio per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito AISI316L - Dimensioni di ingombro ridotte – Leggero

| BUILDING MATERIALS                                                        | Materiali costruttivi                                                                                 |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Body, bonnet, bowl in AISI 316/316L stainless steel                       | Corpo, coperchio, tazza in acciaio inossidabile AISI316/316L                                          |
| Internals, bracket, lock and panel nuts, fixing screws in stainless steel | Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile |
| 3, 5, 25 & 40micron filtering element in AISI316 SS                       | Elementi filtranti da 3, 5, 25 e 40micron in AISI316                                                  |
| Diaphragm & seals in elastomer                                            | Diaframma e guarnizioni in elastomero                                                                 |

Product exploded view  
Esploso del prodotto



| Pos. | Q.ty | Description                  | Descrizione                    |
|------|------|------------------------------|--------------------------------|
| 1    | 1    | ADJUSTMENT SCREW             | VITE DI REGOLAZIONE            |
| 2    | 1    | LOCK ADJUSTMENT NUT          | DADO FISSAGGIO REGOLAZIONE     |
| 3    | 1    | BRACKET NUT                  | VITE DI REGOLAZIONE            |
| 4a   | 1    | BRACKET FR/R                 | DADO FISSAGGIO REGOLAZIONE     |
| 5    | 1    | UPPER SPRING SEAT            | SEDE SUPERIORE MOLLA           |
| 6    | 1    | ADJUSTMENT SPRING            | MOLLA DI REGOLAZIONE           |
| 7    | 1    | BONNET                       | TAZZA SUPERIORE                |
| 8    | 1    | LOWER SPRING GUIDE           | GUIDA INFERIORE MOLLA          |
| 9    | 1    | LOWER SPRING RESET           | RESET INFERIORE MOLLA          |
| 10   | 1    | DIAPHRAGM                    | DIAFRAMMA                      |
| 11   | 1    | VALVE SEAT                   | SEDE VALVOLA                   |
| 12   | 1    | PTFE RING                    | ANELLO PTFE                    |
| 13a  | 1    | FR BODY                      | CORPO                          |
| 14   | 1    | O-RING                       | O-RING                         |
| 15   | 1    | VALVE STEAM                  | CORPO VALVOLA                  |
| 16   | 1    | O'RING VALVE STEAM           | O'RING VALVE STEAM             |
| 17   | 1    | VALVE SPRING                 | MOLLA VALVOLA                  |
| 19a  | 1    | FILTER ELEMENT SUPPORT 5mic  | SUPPORTO ELE. FILTRANTE 5 MIC  |
| 19b  | 1    | FILTER ELEMENT SUPPORT 25mic | SUPPORTO ELE. FILTRANTE 25 MIC |
| 20a  | 1    | FILTER ELEMENT 5 MICRON      | ELEMENTO FILTRANTE 5 MIC       |
| 20b  | 1    | FILTER ELEMENT 25 MICRON     | ELEMENTO FILTRANTE 25 MIC      |
| 21   | 1    | FILTER ELEMENT SUPPORT       | SUPPORTO ELE. FILTRANTE        |
| 22   | 1    | FILTER ELEMENT CASEBACK      | BASE ELEMENTO FILTRANTE        |
| 23   | 1    | SCREW M4X6                   | VITI M4X6                      |
| 24a  | 1    | MANUAL DRAIN BOLW            | TAZZA SCARICO MANUALE          |
| 24b  | 1    | AUTOMATIC DRAIN BOLW         | TAZZA SCARICO AUTOMATICO       |
| 25   | 1    | BENZIN                       | ANELLO BENZIN                  |
| 26   | 1    | O'RING DRAIN                 | O'RING DRAIN                   |
| 27   | 1    | MANUAL DRAIN                 | SCARICO MANUALE                |
| 28a  | 4    | SCREW MAN. DRAIN M5X10       | VITI SCARICO MANUALE M5X10     |
| 28b  | 4    | SCREW AUTO DRAIN M5X16       | VITI SCARICO AUTO M5X16        |
| 28c  | 4    | BONNET SCREW M5X10           | VITI TAZZA SUPERIORE M5X10     |
| 29   | 1    | AUTOMATIC DRAIN              | SCARICO AUTOMATICO             |
| 30   | 1    | O'RING AUTO DRAIN            | O'RING SCARICO AUTO            |
| 31   | 1    | AUTOMATIC DRAIN SEAT         | SEDE SCARICO AUTOMATICO        |
| 32   | 1    | O'RING AUTOM. DRAIN          | O'RING SCARICO AUTO            |
| 33   | 1    | AUTOMATIC DRAIN SEAT         | SEDE SCARICO AUTOMATICO        |

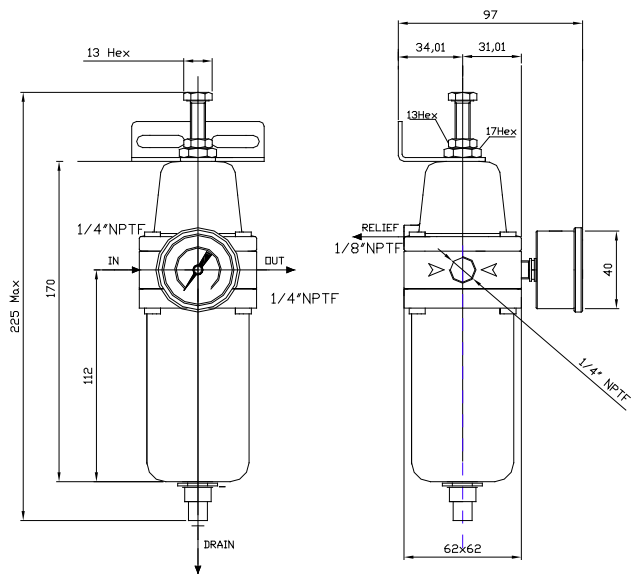
BT-FRH4SS/C22B

# Overall dimension

Dimensioni di ingombro

## Automatic drain

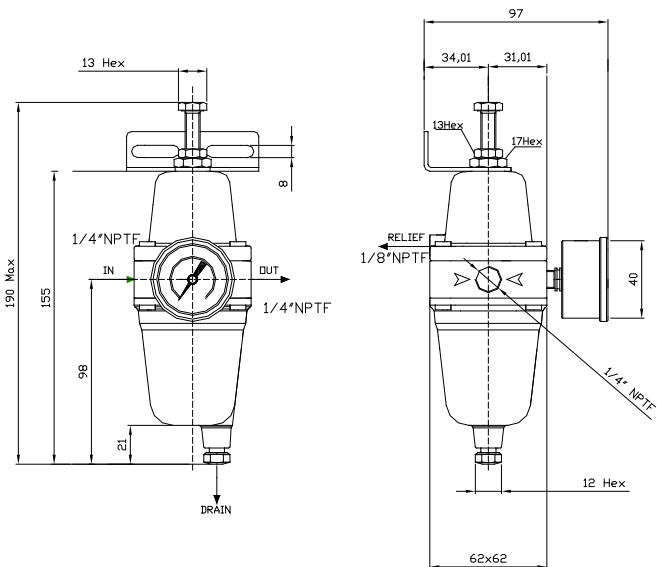
Scarico automatico



## Manual drain

Scarico manuale

- Note for automatic drain:**
- max inlet pressure 16bar
  - not recommended for  $T < 2^{\circ}\text{C}$
- Nota per scarico automatico:**
- massima pressione di utilizzo 16bar
  - non raccomandato per  $T < 2^{\circ}\text{C}$



## Accessories and repair kit

Accessori e ricambi

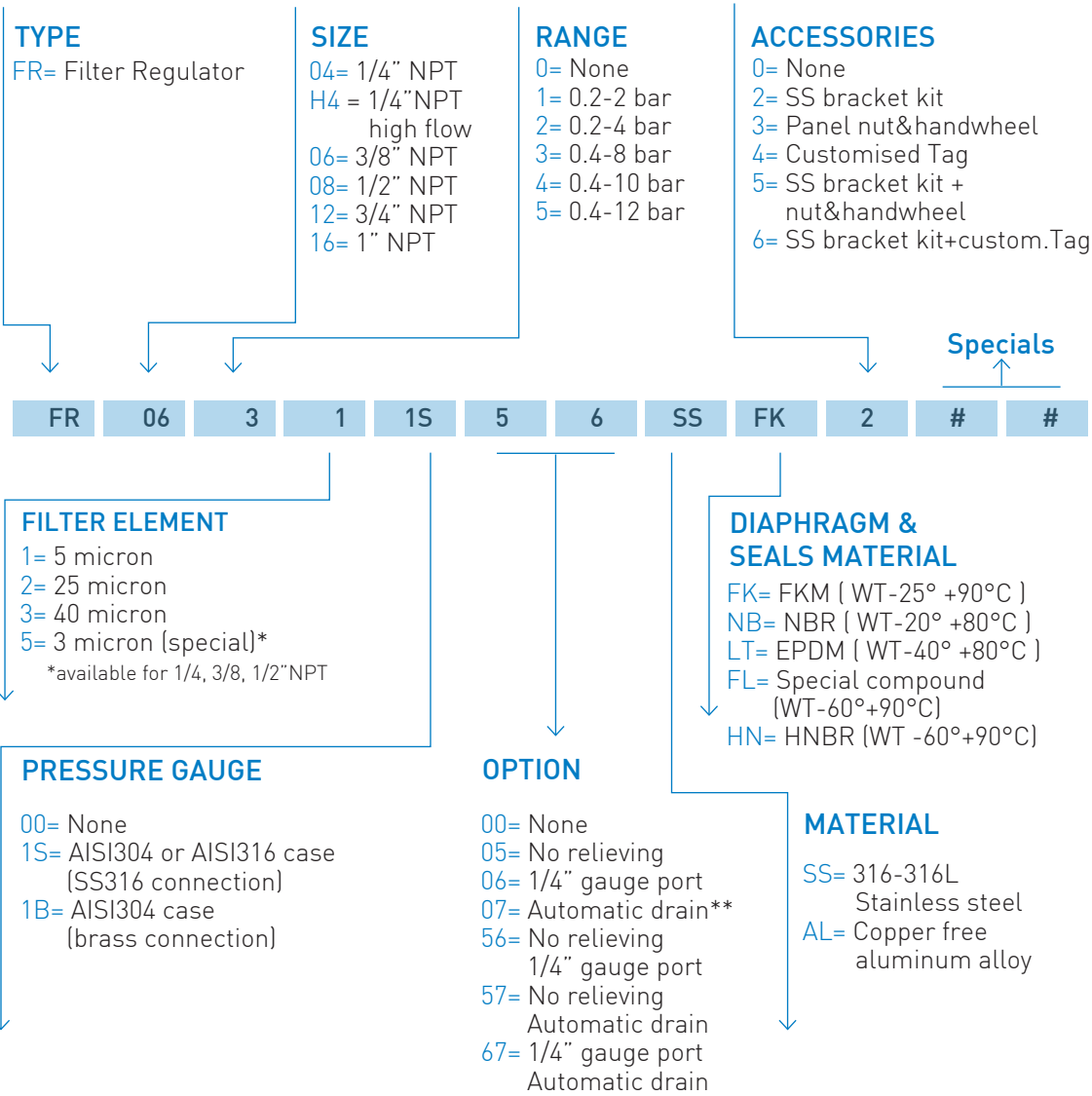
|                                                                                                    |                                                                       |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| Maintenance kit / Kit manutenzione [1/4"]                                                          | Items<br>K-FRH4-*-SS-**                                               |
| Pressure gauge DN40mm, all SS, Bar+psi+kpa range / Manometro DN40mm, tutto inox, scala Bar+psi+kpa | 0-2,5 bar MBS6P4S2PN04<br>0-4bar MBS6P4S2PN05<br>0-10bar MBS6P4S2PN07 |
| Bracket / Staffa                                                                                   | SQ-FR04                                                               |
| Anti-tamper kit / Kit anti-manomissione                                                            | KTAM04-08                                                             |

\* Refers to filter element option: 1→5 micron; 2→25 micron ; 3→40 micron; 5→3 micron  
\*\* Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

# Ordering information - Filter regulators

Come ordinare - Filtri regolatori

www.sitecna.eu



## CODE EXAMPLES

FR 08 3 3 1S 0 7 SS FK 2

**1/2"NPT, SS316, 0 to 8 bar range, filter regulator, with 40 micron filtering element, relieving, SS pressure gauge, automatic drain, ss bracket kit and FKM diaphragm & seals**  
Filtro regolatore da 1/2"NPT in AISI316, range regolato 0/8 bar, elemento filtrante da 40 micron, manometro tutto inox, relieving, scarico condensa automatico, staffa inox, diaframma e tenute in FKM

FR 06 3 1 00 0 0 SS FK 0

**3/8"NPT, SS316, 0 to 8 bar range, filter regulator, with 5 micron filtering element, relieving and FKM diaphragm & seals**  
Filtro regolatore da 3/8"NPT in AISI316, range regolato 0/8 bar, elemento filtrante da 5 micron, relieving, diaframma e tenute in FKM

**\*\* Nota for automatic drain: use not recommended for T 2°C (under this T the moisture in the medium could freeze and cause drain malfunction or breaking) / Nota per scarico automatico: uso non raccomandato per T 2°C (sotto questa T la condensa può ghiacciare e causare malfunzionamenti o rotture).**