

| MODEL<br>MODELLO | THREAD<br>FILETTO | Dn<br>mm | ELEMENT<br>MATERIALE | WP<br>PN | CV IN | CV OUT |
|------------------|-------------------|----------|----------------------|----------|-------|--------|
| VSR02NSS*        | 1/8" NPT          | 8        | PU or LT PU          | 2-12BAR  | -     | -      |
| VSR04NSS*        | 1/4" NPT          | 8        | PU or LT PU          | 2-12BAR  | 1.2   | 2.0    |
| VSR06NSS*        | 3/8" NPT          | 10       | PU or LT PU          | 2-12BAR  | 3.6   | 6.9    |
| VSR08NSS*        | 1/2" NPT          | 12       | PU or LT PU          | 2-12BAR  | 4.3   | 6.9    |
| VSR12NSS*        | 3/4" NPT          | 19       | PU or LT PU          | 2-12BAR  | 10.0  | 11.3   |
| VSR16NSS*        | 1" NPT            | 19       | PU or LT PU          | 2-12BAR  | 10.5  | 15.7   |

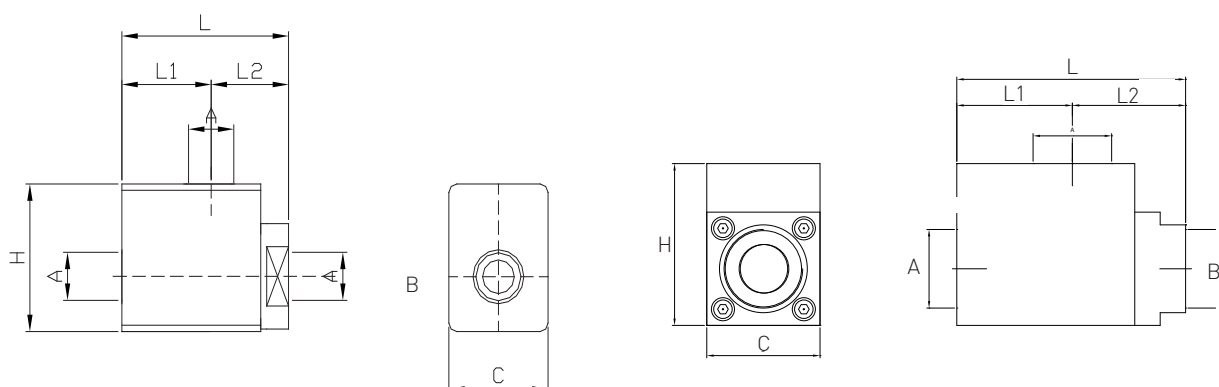
\*Refers to seals type. Add:  
 FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

## Overall dimension

Dimensioni di ingombro

VSR02, VSR04

VSR06, VSR08, VSR12, VSR16



| MODEL<br>MODELLO | THREAD<br>FILETTO | B        | L<br>mm | L1<br>mm | L2<br>mm | H<br>mm | C<br>mm |
|------------------|-------------------|----------|---------|----------|----------|---------|---------|
| VSR02NSS*        | 1/8" NPT          | 1/4" NPT | 42      | 22,5     | 19,5     | 35      | 25      |
| VSR04NSS*        | 1/4" NPT          | 1/4" NPT | 42      | 22,5     | 19,5     | 35      | 25      |
| VSR06NSS*        | 3/8" NPT          | 1/2" NPT | 56      | 33       | 23       | 53      | 40      |
| VSR08NSS*        | 1/2" NPT          | 1/2" NPT | 56      | 33       | 23       | 53      | 40      |
| VSR12NSS*        | 3/4" NPT          | 3/4" NPT | 99      | 50       | 49       | 70      | 49      |
| VSR16NSS*        | 1" NPT            | 1" NPT   | 99      | 50       | 49       | 70      | 49      |

\*Refers to seals type. Add: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

## Copper free aluminum alloy flow regulators - RF serie

Regolatori di flusso in alluminio esente rame - serie RF

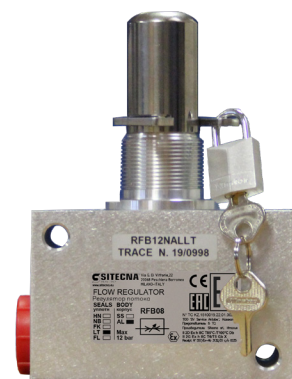
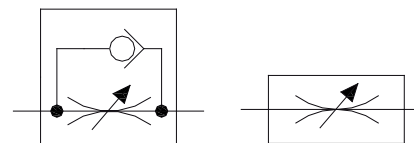
Flow regulators are generally used to control the outflow of a media . A complete range of needle valves and flow regulators provides a variety of choices between uni or bi-directional versions and different precision features.

- Suitable for air or gas service
- Different end connections available
- 12bar max working pressure
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIC T85°C/T100°C Db X
-  &  approved

I regolatori di flusso sono generalmente impiegati per il controllo della portata di efflusso del fluido controllato.

Una selezione completa di regolatori consente un'ampia scelta fra le diverse tipologie, uni e bidirezionali e con diverse caratteristiche di precisione.

- Idonei per utilizzo con aria o gas
- Disponibili con varietà di connessioni
- Pressione di lavoro massima 12bar
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIC T85°C/T100°C Db X
- Approvato  ed 



## Accessories and repair kit

Accessori e ricambi

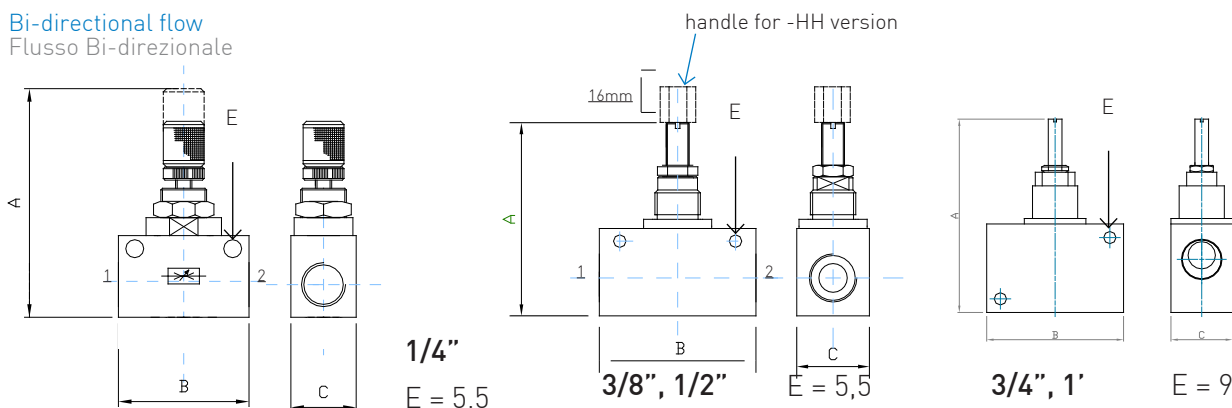
|                                         |                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------|
| Anti-tamper kit / Kit anti-manomissione | Items<br>KTAM04-08                                                                   |
| Maintenance kit / Kit manutenzione      | Items<br>K-RF-04-AL-**[1/4"]<br>K-RF-08-AL-**[3/8", 1/2"]<br>K-RF-16-AL-**[3/4", 1"] |

\*\* Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

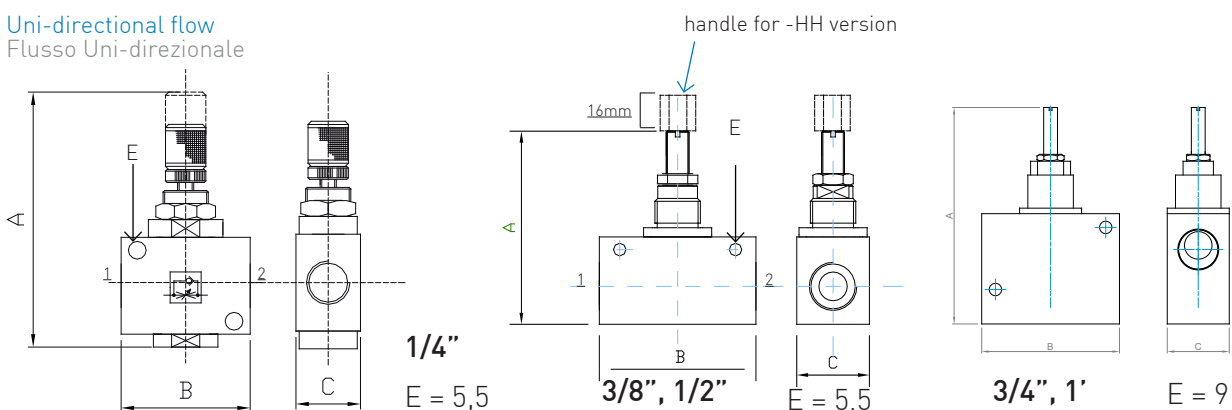
## Overall dimension

Dimensioni di ingombro

Bi-directional flow  
Flusso Bi-direzionale



Uni-directional flow  
Flusso Uni-direzionale



| MODEL<br>MODELLO | FUNCTION<br>FUNZIONE | THREAD<br>FILETTO | A<br>mm | B<br>mm | C<br>mm | CV - Max flow 6 bar<br>CV - Portata max 6 bar |       | Dn<br>mm |
|------------------|----------------------|-------------------|---------|---------|---------|-----------------------------------------------|-------|----------|
|                  |                      |                   |         |         |         | 1→2                                           | 1←2   |          |
| RFB04NAL*        | Bidirectional        | 1/4"NPT           | 70      | 40      | 20      | 1.05                                          | --    | 6.5      |
| RFB06NAL*        | Bidirectional        | 3/8" NPT          | 84      | 69      | 32      | 3.56                                          | --    | 12.5     |
| RFB08NAL*        | Bidirectional        | 1/2"NPT           | 84      | 69      | 32      | 3.56                                          | --    | 12.5     |
| RFB12NAL*        | Bidirectional        | 3/4"NPT           | 142     | 100     | 45      | 8                                             | --    | 18       |
| RFB16NAL*        | Bidirectional        | 1"NPT             | 142     | 100     | 45      | 9.94                                          | --    | 20       |
| RFU04NAL*        | Unidirectional       | 1/4"NPT           | 70      | 40      | 20      | 1.05                                          | 1.45  | 6.5      |
| RFU06NAL*        | Unidirectional       | 3/8"NPT           | 84      | 69      | 32      | 3.56                                          | 4.36  | 12.5     |
| RFU08NAL*        | Unidirectional       | 1/2"NPT           | 84      | 69      | 32      | 3.56                                          | 4.36  | 12.5     |
| RFU12NAL*        | Unidirectional       | 3/4"NPT           | 142     | 100     | 45      | 8                                             | 9.2   | 18       |
| RFU16NAL*        | Unidirectional       | 1"NPT             | 142     | 100     | 45      | 9.94                                          | 11.14 | 20       |

\* for choosing seals' materials, add to the code the following digit (standard if not specified = NBR)

per i materiali delle tenute, aggiungere al codice i seguenti digit (standard se non specificato = NBR)

NB = NBR seals (WT -20°C/+80°C)

LT = EPDM seals (WT -40°C/+80°C)

FK = FKM seals (WT -25°C/+90°C)

FL / HN = FVMQ + EPDM / HNBR (WT -55°C/+90°C)

**NB: add -HH at the end of the code to have version with handle; for 1/4"NPT is standard.**

**add PM at the end of the code to have version with panel nut.**

NB: aggiungere -HH alla fine del codice per avere la versione con pomello; per 1/4"NPT è standard

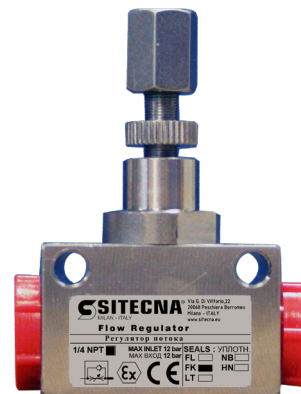
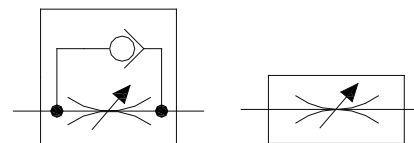
aggiungere PM alla fine del codice per avere la versione con dado per montaggio a pannello

## SS316L flow regulators - RF serie

Regolatori di flusso in AISI316L - serie RF

Flow regulators are generally used to control the outflow of a media. A complete range of needle valves and flow regulators provides a variety of choices between uni or bi-directional versions and different precision features.

- Suitable for air or gas service
- Robust SS316L design
- Different end connections available
- 12bar max working pressure
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved



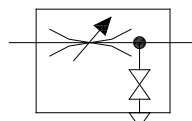
I regolatori di flusso sono generalmente impiegati per il controllo della portata di efflusso del fluido controllato. Una selezione completa di regolatori consente un'ampia scelta fra le diverse tipologie, uni e bidirezionali e con diverse caratteristiche di precisione.

- Idonei per utilizzo con aria o gas
- Robusta costruzione in AISI316L
- Disponibili con varietà di connessioni
- Pressione di lavoro massima 12bar
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 

## Alternative model - available on request

Modelli alternativi - Disponibile su richiesta

- drilled non closing valve
- panel mount nut option (add PM to the code)
- optional bleed - instrument block & bleed valve (add /V to the code)
- foratura valvola non chiude
- versione predisposta per montaggio a pannello (aggiungere PM al codice)
- opzione - block & bleed (aggiungere /V al codice)



Block and bleed version

## Accessories and repair kit

Accessori e ricambi

|                                         |                                                                                      |
|-----------------------------------------|--------------------------------------------------------------------------------------|
| Anti-tamper kit / Kit anti-manomissione | Items<br>KTAM04-08                                                                   |
| Maintenance kit / Kit manutenzione      | Items<br>K-RF-04-SS-**[1/4"]<br>K-RF-08-SS-**[3/8", 1/2"]<br>K-RF-16-SS-**[3/4", 1"] |

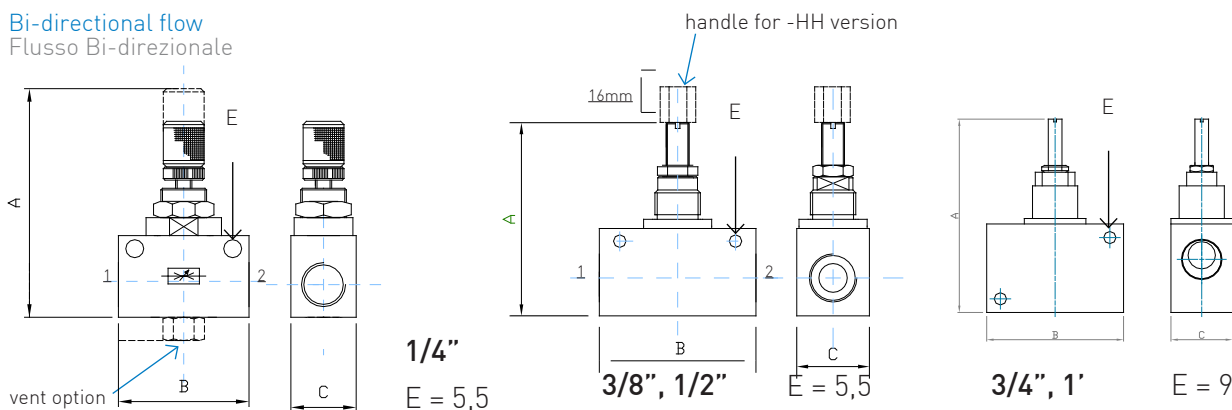
\*\* Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR



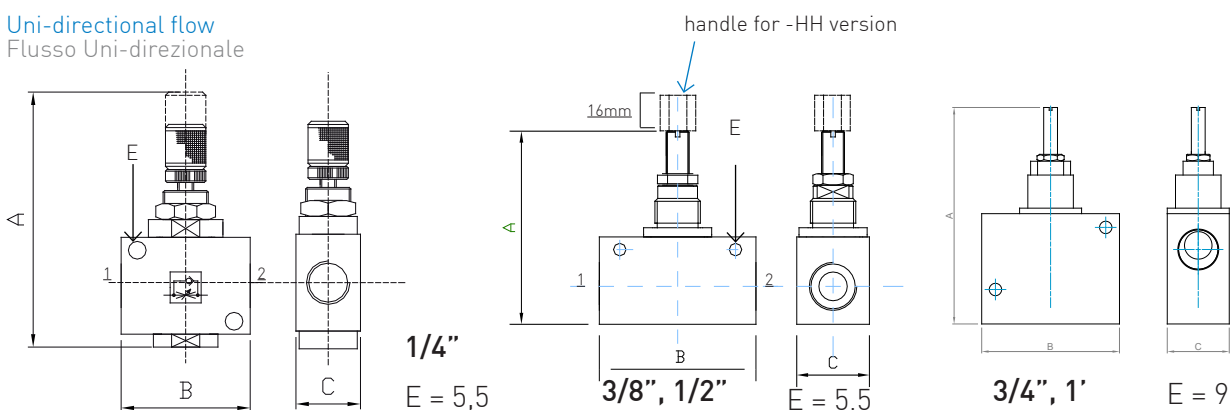
## Overall dimension

Dimensioni di ingombro

### Bi-directional flow Flusso Bi-direzionale



### Uni-directional flow Flusso Uni-direzionale



| MODEL<br>MODELLO | FUNCTION<br>FUNZIONE | THREAD<br>FILETTO | A<br>mm | B<br>mm | C<br>mm | CV - Max flow 6 bar<br>CV - Portata max 6 bar |       | Dn<br>mm |
|------------------|----------------------|-------------------|---------|---------|---------|-----------------------------------------------|-------|----------|
|                  |                      |                   |         |         |         | 1→2                                           | 1←2   |          |
| RFB04NSS*        | Bidirectional        | 1/4"NPT           | 70      | 40      | 20      | 1.05                                          | --    | 6.5      |
| RFB06NSS*        | Bidirectional        | 3/8" NPT          | 84      | 69      | 32      | 3.56                                          | --    | 12.5     |
| RFB08NSS*        | Bidirectional        | 1/2"NPT           | 84      | 69      | 32      | 3.56                                          | --    | 12.5     |
| RFB12NSS*        | Bidirectional        | 3/4"NPT           | 142     | 100     | 45      | 8                                             | --    | 18       |
| RFB16NSS*        | Bidirectional        | 1"NPT             | 142     | 100     | 45      | 9.94                                          | --    | 20       |
| RFU04NSS*        | Unidirectional       | 1/4"NPT           | 70      | 40      | 20      | 1.05                                          | 1.45  | 6.5      |
| RFU06NSS*        | Unidirectional       | 3/8"NPT           | 84      | 69      | 32      | 3.56                                          | 4.36  | 12.5     |
| RFU08NSS*        | Unidirectional       | 1/2"NPT           | 84      | 69      | 32      | 3.56                                          | 4.36  | 12.5     |
| RFU12NSS*        | Unidirectional       | 3/4"NPT           | 142     | 100     | 45      | 8                                             | 9.2   | 18       |
| RFU16NSS*        | Unidirectional       | 1"NPT             | 142     | 100     | 45      | 9.94                                          | 11.14 | 20       |

\* for choosing seals' materials, add to the code the following digit (standard if not specified = NBR)

per i materiali delle tenute, aggiungere al codice i seguenti digit (standard se non specificato = NBR)

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LT = EPDM seals (WT -40°C/+80°C)

FK = FKM seals (WT -25°C/+90°C)

FL / HN = FVMQ + EPDM / HNBR (WT -55°C/+90°C)

**NB: add -HH at the end of the code to have version with handle; for 1/4"NPT is standard.**

**add PM at the end of the code to have version with panel nut.**

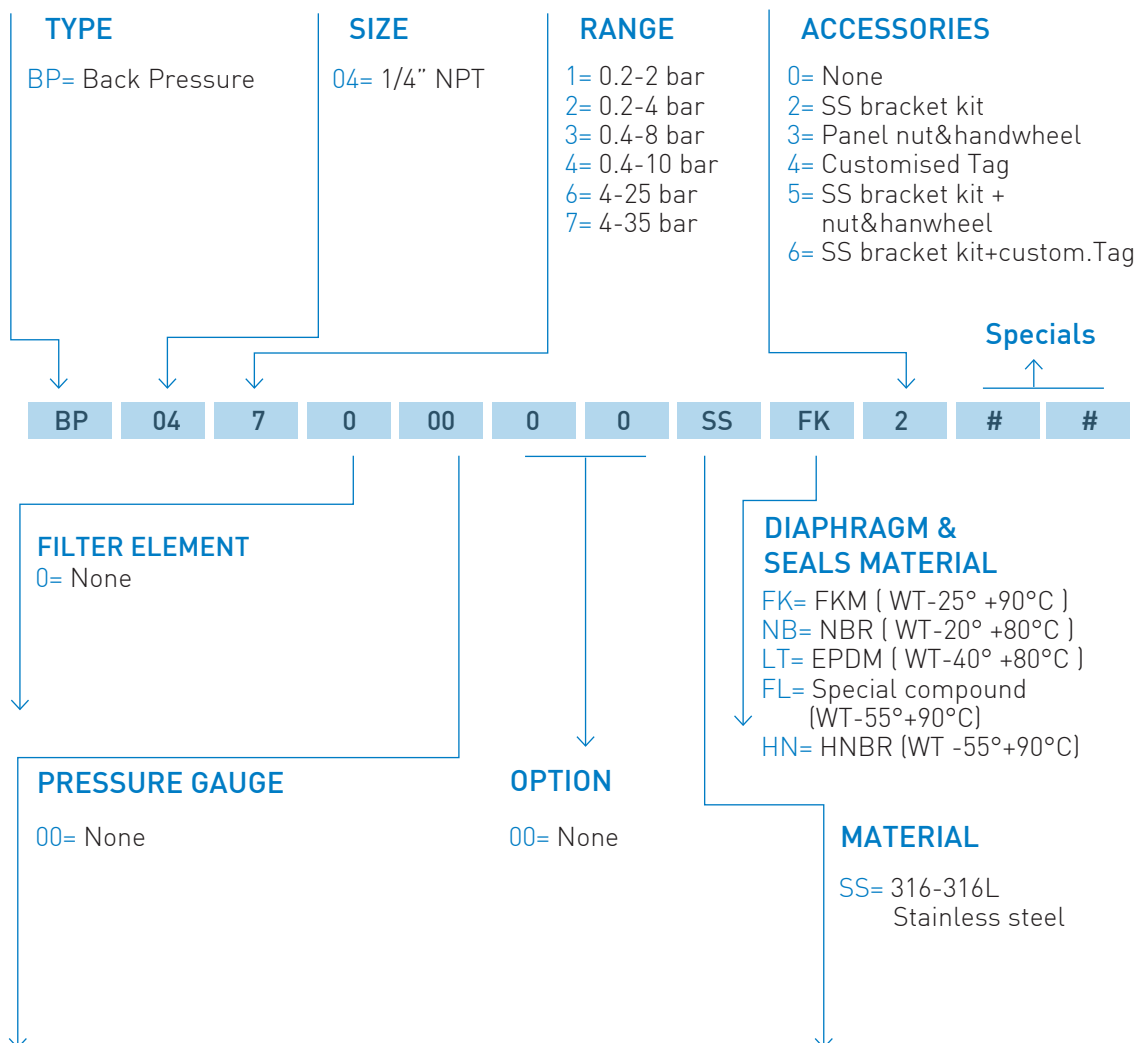
NB: aggiungere -HH alla fine del codice per avere la versione con pomello; per 1/4"NPT è standard

aggiungere PM alla fine del codice per avere la versione con dado per montaggio a pannello

# Ordering information - Back-pressure regulators

Come ordinare - Regolatori back-pressure

www.sitecna.eu



## CODE EXAMPLES

|    |    |   |   |    |   |   |    |    |   |  |  |
|----|----|---|---|----|---|---|----|----|---|--|--|
| BP | 04 | 7 | 0 | 00 | 0 | 0 | SS | FK | 2 |  |  |
|----|----|---|---|----|---|---|----|----|---|--|--|

**1/4"NPT, SS316, 4 to 35 bar range, back-pressure regulator, ss bracket kit and FKM diaphragm & seals**

Regolatore di back-pressure da 1/4"NPT in AISI316, range regolato 4/35 bar, staffa inox, diaframma e tenute in FKM

01-BP/20A

## AISI316L 1/4" back pressure regulator - BP Series

Regolatore di contropressione da 1/4" in AISI316- Serie BP

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Excellent accuracy
- Full material traceability
- Gauge port option
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved

- Adatto per automazione in applicazioni marine, petrolchimiche farmaceutiche, medicali e alimentari
- Eccellente precisione
- Completa rintracciabilità dei materiali
- Varianti connessioni manometri
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 



|                                                       |                                                                                                     |
|-------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Media / Fluido                                        | Compressed air, inert gases, sweet and sour gases                                                   |
| Port thread / Connessioni                             | 1/4" NPT                                                                                            |
| Gauge Connection<br>Connessione manometro             | 1/8"NPT (1/4"NPT option)                                                                            |
| Filtering element<br>Elemento filtrante               | coalescing or 5, 25, 40 micron in st. st. 316                                                       |
| Max inlet pressure /<br>Pressione massima di ingresso | Equal to pressure control range                                                                     |
| Drain valve/ Scarico condensa                         | Manual or automatic                                                                                 |
| Control range ( psi )<br>Campo di regolazione ( bar ) | 3-30 3-60 5-120 5-150 60-365 60-500<br>0.2-2 0.2-4 0.4-8 0.4-10 4-25 4-35                           |
| Working temperature /<br>Temperatura di esercizio     | -20°C up to 80°C (NBR); -25°C up to 90°C (FKM);<br>-40°C up to 80°C (EPDM); -55° up tp 90°C (FVMQ)* |

\*Special version in HNBR (WT -55°C + 90°C)

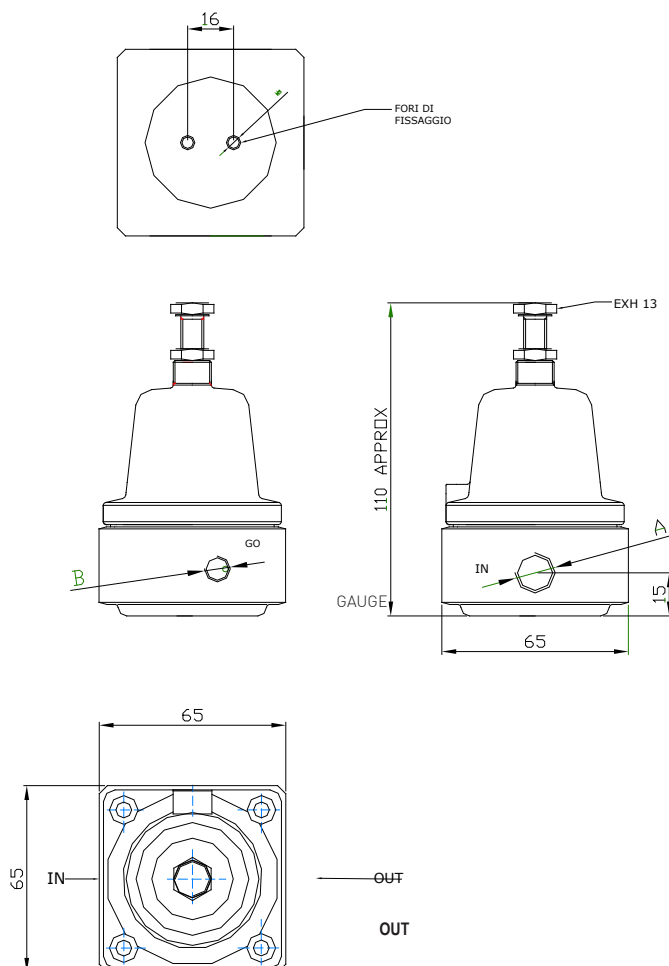
The BP series is a general-purpose regulator designed to control back-pressure levels in process or analytical systems upstream of the regulator. Its feature make it ideal for many type of application.

La serie BP è un regolatore per applicazioni generiche progettato per controllare i valori di contropressione a valle del regolatore di pressione nei sistemi di processo o di analisi. Le sue caratteristiche lo rendono adatto a molteplici applicazioni.

| BUILDING MATERIALS                                                                          | Materiali costruttivi                                                                                                |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Body, bonnet, end plate in AISI 316/316L stainless steel                                    | Corpo, coperchio, piastra inferiore acciaio inossidabile AISI316/316L                                                |
| Internals, adjustment screw, bracket, lock and panel nuts, fixing screws in stainless steel | Parti interne, vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile |
| Diaphragm & seals in elastomer                                                              | Diaframma eguarnizioni in elastomero                                                                                 |

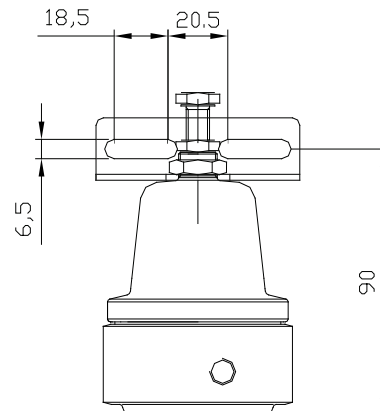
## Overall dimension

Dimensioni di ingombro



## Wall bracket dimension

Dimensioni staffa



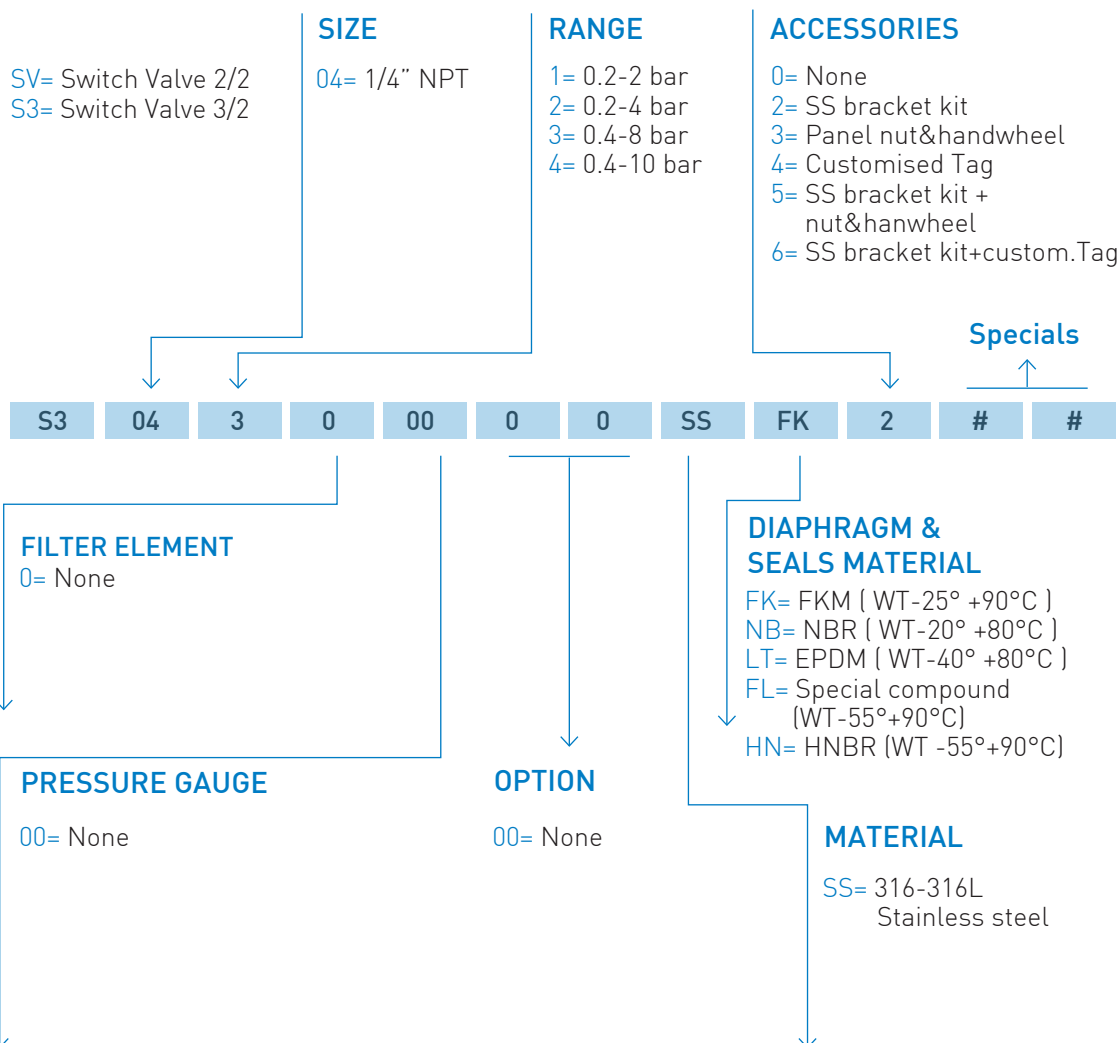
## Accessories

Accessori

|                                                                                                    |                                                                       |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 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                                                             |

# Ordering information - Switch valves

Come ordinare - Switch valves



## CODE EXAMPLES

SV 04 3 0 00 0 0 SS FK 2

**1/4"NPT, SS316, 0 to 8 bar range, 2 ways switch valve, ss bracket kit and FKM diaphragm & seals**

Valvola a due vie da 1/4"NPT in AISI316, range regolato 0/8 bar, staffa inox, diaframma e tenute in FKM

S3 04 4 0 00 0 0 SS LT 0

**1/4"NPT, SS316, 0 to 10 bar range, 3 ways switch valve, EPDM diaphragm & seals**

Valvola a tre vie da 1/4"NPT in AISI316, range regolato 0/10 bar, diaframma e tenute in EPDM

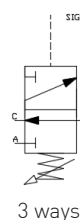
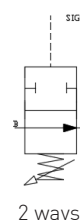
## AISI316L 1/4" switching valve pneumatically operated - SV and S3 Series

Valvola di commutazione ad azionamento pneumatico 1/4" in AISI316L - Serie SV e S3

- AISI 316L construction
- Excellent accuracy
- Easy, accurate adjustment
- 2/2 valve on off control
- 3/2 normally open switching valve
- ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X  
 II 2D Ex h IIIC T85°C/T100°C Db X

-  &  approved / SIL 3 - IEC 61508 

- Materiale di costruzione AISI 316L
- Eccellente precisione
- Facile e precisa regolazione
- Valvola 2/2 di controllo on off
- Valvola di commutazione 3/2 NA
- ATEX 2014/34/UE II 2G Ex h IIC T6/T5 Gb X  
 II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / SIL 3 - IEC 61508 



|                                                                  |                                                                                                     |               |                |                 |
|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------|----------------|-----------------|
| Media / Fluido                                                   | Compressed air, inert gases, sweet and sour gases                                                   |               |                |                 |
| Port thread / Connessioni                                        | 1/4" NPT                                                                                            |               |                |                 |
| Signal Port / Connessione segnale                                | 1/8"NPT (1/4"NPT option)                                                                            |               |                |                 |
| Max inlet pressure (psi)/<br>Pressione massima di ingresso (bar) | 150<br>10                                                                                           |               |                |                 |
| Maximum signal (psi) /<br>Segnale Massimo (bar)                  | 100<br>7                                                                                            |               |                |                 |
| Control range ( psi )<br>Campo di regolazione ( bar )            | 3-30<br>0.2-2                                                                                       | 3-60<br>0.2-4 | 5-120<br>0.4-8 | 5-150<br>0.4-10 |
| Working temperature /<br>Temperatura di esercizio                | -20°C up to 80°C (NBR); -25°C up to 90°C (FKM);<br>-40°C up to 80°C (EPDM); -55° up tp 90°C (FVMQ)* |               |                |                 |

\*Special version in HNBR (WT -55°C + 90°C)

The Types SV switching valves is a pneumatically operated and controlled units, built with a wide range of capabilities to handle those switching application that involve on-off control, and failure modes. Operation of valve occurs when the pneumatic signal changes accordingly to the spring range. The Sv model switching valve is typically used as a normally close on-off switch. The model S3 switching valve directs flow through three ports. With a choice of springs for optimum resolution, the switching point is set to a specific requirement by an adjusting screw placed on top of the cover.

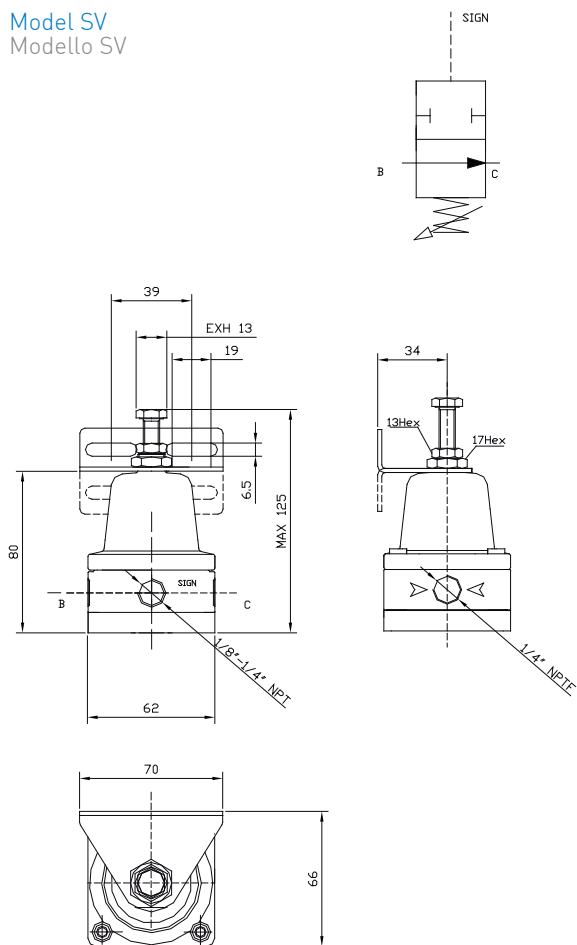
La valvola di commutazione tipo SV è un dispositivo azionato e controllato pneumaticamente, costruito con un'ampia gamma di possibilità per controllare applicazioni di commutazione che coinvolgono il controllo on-off e le modalità guasto. Il funzionamento della valvola avviene quando il segnale pneumatico varia in funzione delle caratteristiche della molla utilizzata. La valvola di commutazione modello SV è utilizzata tipicamente come interruttore on-off normalmente chiuso. Il modello S3 consente il passaggio del flusso in tre connessioni. Con la possibilità di scegliere diverse molle per una risoluzione ottimale, il punto di commutazione è regolato per mezzo di una vite posta nella parte superiore del coperchio.

| BUILDING MATERIALS                                                                          | Materiali costruttivi                                                                                                |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Body, bonnet, end plate in AISI 316/316L stainless steel                                    | Corpo, coperchio, piastra inferiore acciaio inossidabile AISI316/316L                                                |
| Internals, adjustment screw, bracket, lock and panel nuts, fixing screws in stainless steel | Parti interne, vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile |
| Diaphragm & seals in elastomer                                                              | Diaframma eguarnizioni in elastomero                                                                                 |

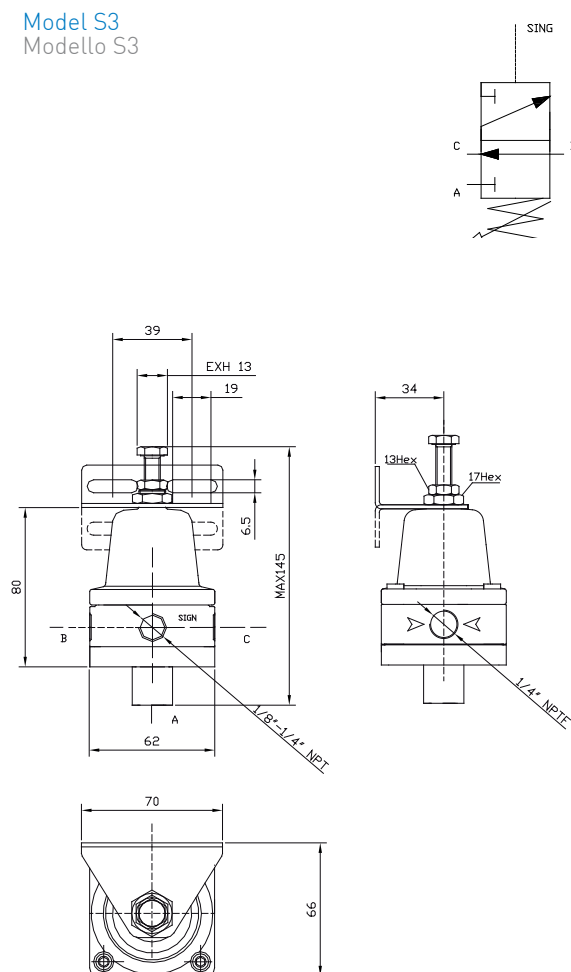
## Overall dimension

Dimensioni di ingombro

### Model SV Modello SV



### Model S3 Modello S3



## Accessories

Accessori

|                                                                                                    |                                                                       |
|----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| 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                                                             |

BT-SV04/C20B

## SS316L adjustable overlaid protector - Mod. SCLP30

Limitatore di pressione tarabile in AISI316L - Mod. SCLP30

This unit is intended as protector device to safeguard pressure gauges against the effect of pressures exceeding maximum pressure rating.

The overpressure protector consists of a piston valve spring actuated. Under normal pressure condition the spring holds the valve open. When in the system pressure exceeds the set value, the force exerted by the spring is overcome and the piston valve closes. The valve will remain in this position until the pressure value in the system drops approx 20-25% below the set pressure, then the force of the spring will open the valve.

The unit must not be used as safety device.



- No leakage when closing
- Adjustable from 0.4 to 400 bar
- Repeatability 1.6%
- Factory setting possible
- ATEX 2014/34/UE
  - II 2G Ex h IIC T6/T5 Gb X
  - II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved

- Tenuta perfetta in chiusura
- Regolabile da 0.4 a 400 bar
- Ripetibilità di intervento 1.6%
- Possibilità di taratura in fabbrica
- ATEX 2014/34/UE
  - II 2G Ex h IIC T6/T5 Gb X
  - II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 

Questo dispositivo è utilizzato come elemento di protezione per salvaguardare i manometri dagli effetti causati dal superamento di un valore massimo di pressione prefissato.

Il limitatore di pressione è costituito da una valvola a pistone azionata da una molla. In condizioni di normale funzionamento la molla mantiene in condizione di apertura il pistone. Quando nel sistema la pressione supera il valore di taratura la forza esercitata dalla molla viene superata e la valvola si chiude. La valvola rimane in questa posizione sino a che il valore di pressione nel sistema si riduce di circa il 20-25% al di sotto del valore di taratura, dopo di che la molla riaprirà la valvola.

Il dispositivo di protezione non deve essere considerato elemento di sicurezza.

### Versioni disponibili

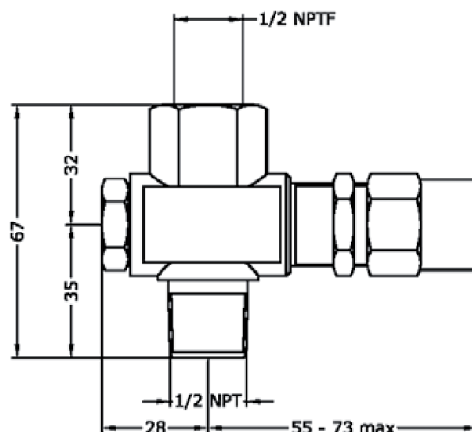
Versioni disponibili

| Cracking Pressure ranges<br>Campo di regolazione      | Part number<br>Codice | Weight<br>Peso |
|-------------------------------------------------------|-----------------------|----------------|
| 0.4 – 2.5 bar                                         | SCLP302               | 0.5 kg         |
| 1.5 – 12 bar                                          | SCLP303               | 0.5 kg         |
| 5 – 25 bar                                            | SCLP304               | 0.5 kg         |
| 10 – 40 bar                                           | SCLP305               | 0.5 kg         |
| 25 – 100 bar                                          | SCLP306               | 0.5 kg         |
| 50 – 250 bar                                          | SCLP307               | 0.5 kg         |
| 200 – 400 bar                                         | SCLP308               | 0.5 kg         |
| Special range on request / Campi speciali a richiesta |                       |                |



## Typical overall dimension

Dimensioni di ingombro tipiche



## Standard features

Caratteristiche standard

|                                                              |                |
|--------------------------------------------------------------|----------------|
| <b>Port connection</b><br>Conessioni                         | 1/2" NPT       |
| <b>Body</b><br>Corpo                                         | AISI316        |
| <b>Wetted parts</b><br>Parti a contatto con fluido           | AISI316L - FPM |
| <b>O ring</b><br>O ring                                      | FPM            |
| <b>Spring</b><br>Molla                                       | DIN 17224      |
| <b>Operating temperature</b><br>Temperatura di funzionamento | 2 + 80° C*     |

## Application

Applicazioni

- **Material of construction allow the unit To be used for corrosive pressure media, even in corrosive ambient**
- **Process industry**
- **Mechanical engineering and plan construction**
- **Onshore and offshore**
- **Power station**
- **Chemical and petrochemical plant**
- **Mining**
- I materiali di costruzione del dispositivo consentono l'impiego con fluidi aggressivi in pressione ed anche in ambienti aggressivi
- Industria di processo
- Ingegneria meccanica e delle costruzioni
- Onshore ed offshore
- Centrali elettriche
- Impianti chimici e petrolchimici
- Attività minerarie

## Section C – Section C – Instruments & accessories

### Sezione B – Strumenti ed accessori

#### A range of instruments and accessories designed for specific applications to optimize the installations

- Flow meters for analysis, Variable flow vacuum pumps, Silencers and Pressure gauges
- Stainless steel complete construction
- Idoneus for installation in classified areas
- Eventual seals available in FPM, EPDM, specials
- Strong construction
- Easy maintenance
- Full material traceability
- Certifications to EN10204 3,1
- 100% Italian production
- 100% tested
- 24 hours shipment service available
- ATEX and EAC certified range



#### Una gamma di accessori e strumenti realizzati per applicazioni specifiche e per ottimizzare le installazioni

- Flussimetri per analisi, Eiettori a portata variabile, Silenzianti e Manometri
- Costruzione completamente in acciaio inossidabile
- Idonei per installazione in area classificata
- Eventuali tenute in FPM, EPDM, speciali
- Costruzione robusta
- Facilità nelle eventuali manutenzioni
- Completa rintracciabilità di tutti i componenti
- Certificati EN10204 3,1
- Produzione 100% italiana
- Collaudo al 100%
- Spedizioni in 24 ore
- Certificati ATEX e EAC



#### AISI316L high flow, bug-screen & flush silencers

- Stainless steel 316L complete construction
- 1/8", 1/4", 3/8", 1/2", 3/4", 1" sizes
- Std NPT threads
- Certifications to EN10204 3,1, ATEX, EAC
- 100% Italian production

#### Silenziatori ad alta portata, anti-insetto e a scomparsa in AISI316L

- Costruzione completamente in AISI316L
- Taglie da 1/8", 1/4", 3/8", 1/2", 3/4", 1"
- Filettature std NPT
- Certificati EN10204 3,1, ATEX, EAC
- Produzione 100% italiana



## Index - Indice

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**p.158 Stainless steel 316L glass tube flow meter**

Flussimetri a tubo vi vetro in AISI316

1/8"NPT



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**p.159 SS316L variable flow vacuum pump**

Eiettori a portata regolabile in AISI316L

1/4"NPT



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**p.161 AISI316L sample probe**

Sonda di campionamento in AISI316L

**NEW  
PRODUCT**

1/2" NPT F



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**p.163 Aluminum & SS316L silencers**

Silenziatori di scarico in alluminio ed AISI316L

1/8", 1/4", 3/8", 1/2", 3/4", 1"NPT



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**p.165 Stainless steel 316L Dust Excluder**

Dust Excluder in AISI316L

1/4", 3/8", 1/2", 3/4", 1"NPT



BT-PIIA/C21A

**p.166 Bourdon type pressure gauges**

Manometri Bourdon

**DN 40, 50, 60**

SS case/nickel plated brass connection; all Stainless steel



**p.168 Stainless Steel 316L Tamperproof kit**

Kit anti/manomissione in AISI316L

**suitable for 1/4, 3/8, 1/2", 3/4", 1"NPT  
FR, R, RF, BP, SV, S3**



**p.169 AISI316L Hexagon ball valves**

Valvole a sfera in AISI316L

**1/4", 1/2"**



**p.170 Auxiliary assembly fittings**

Raccordo ausiliari per montaggio

**30bar /450psi max operating pressure**



## AISI 316L glass tube flowmeter – FLGS series

Flussimetro a tubo di vetro in AISI 316L – serie FLGS

- Instant flowmeters for low flows
- Excellent accuracy
- Rear ports
- FKM gasket (other on demand)
- Low cost
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
-  &  approved II 2D Ex h IIIC T85°C/T100°C Db X

- Flussimetro per misurazioni istantanee di basse portate
- Eccellente precisione
- Connessioni posteriori
- Guarnizioni in FKM (altre su richiesta)
- Basso costo
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
- Approvato  ed  II 2D Ex h IIIC T85°C/T100°C Db X



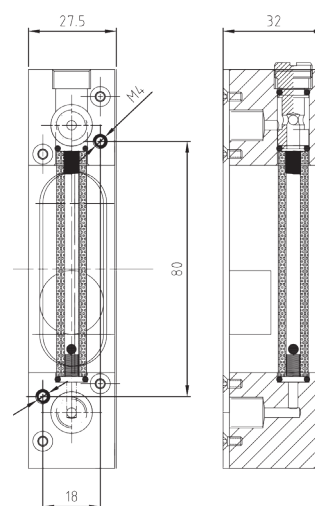
### Technical datas

Informazioni tecniche

|                                                    |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------|
| Port threads<br>Connessioni                        | 1/8" NPT F                                                          |
| Flow range<br>Portata                              | 0.2-2,5 NL/m air 20°C P=1013mbar<br>0.8-10 NL/m air 20°C P=1013mbar |
| Accuracy<br>Precisione                             | ± 5% of max scale value                                             |
| Length of reading scale<br>Lunghezza scala lettura | 63 mm                                                               |
| Float<br>Galleggiante                              | Stainless Steel                                                     |
| Body material<br>Materiale corpo                   | AISI 316L - Aluminum bracket                                        |
| Metering tube<br>Tubo di misura                    | Borosilicate glass (Pyrex)                                          |
| Linings - Guarnizioni                              | FKM (other on demand)                                               |
| Max Inlet Pressure<br>Pressione max ingresso       | 10 bar                                                              |
| Temperature range<br>Temperatura                   | -20° +90°C                                                          |
| Options<br>Opzioni                                 | Stainless steel bracket                                             |

### Dimension

Dimensioni



### Ordering information

Come ordinare

#### FLOW

A = Flow 0.2 - 2,5 NL/m  
H = Flow 0.8 - 10 NL/m

FLGSN

H

SE1

-VI

#### METERING VALVE

-- = none

VI = inlet metering valve

VO = outlet metering valve

#### SENSOR

000 = No alarm included

SE1 = monostable alarm P+F RC10-14-NO

SE2 = monostable alarm P+F NCB5-18GM40-NO\*

\*only with flow H

## AISI 316L Variable flow vacuum pump – VP serie

Eiettori a flusso variabile in AISI316L – serie VP

The variable performance of the vacuum pump is achieved by increasing the annular gap between the Venturi nozzle and the diffuser. Rotating the diffuser section counter clock-wise will increase the opening, allowing more compressed air to flow through the unit and increasing both the vacuum flow and the vacuum level. The result is variable vacuum pump that can be adjusted to meet an application's exact requirements.

- ATEX 2014/34/UE  II 2G Exh IIC T6/T5 Gb x  
II 2D Exh IIIC T85°C/T100°C Db
-  &  approved

Le prestazioni della pompa per vuoto sono ottenute aumentando lo spazio tra l'ugello Venturi ed il diffusore. Ruotando la sezione del diffusore in senso orario l'apertura aumenta permettendo il passaggio di una quantità maggiore di aria compressa attraverso l'unità incrementando il flusso di aspirazione ed il livello di vuoto. Il risultato è una pompa per il vuoto a flusso variabile che può essere regolata per soddisfare la più esigente richiesta

- ATEX 2014/34/UE  II 2G Exh IIC T6/T5 Gb x  
II 2D Rxh IIIC T85°C/T100°C Db
- Approvato  ed 

### Performance data\*

Prestazioni\*

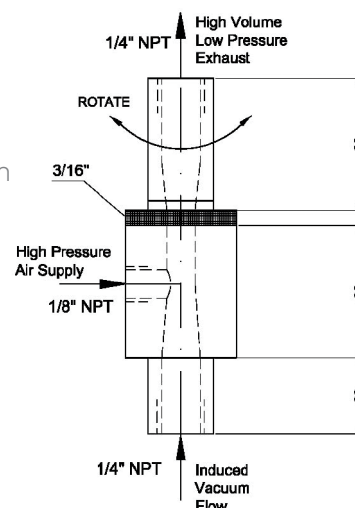
- Vacuum level : -15" HG
- Max vacuum flow : 10 scfm
- Air consumption : 6scfm
- Livello di vuoto : -15" HG
- Flusso massimo di vuoto : 10 scfm
- Consumo d'aria: 6scfm

\*@80psi pressare supply

\* a 5'5 bar di alimentazione

SS316L version Model

ST-VP0204N4P



- High performance for vacuum flow rate and vacuum level .

Ottime prestazioni di portata e di livello di vuoto

- Non-clogging, straight -through design .

La progettazione a passaggio diritto impedisce ogni possibilità di intasamento

- Low air consumption ratio

Bassi consumi di aria

- Air velocity and flow are field adjustable to provide a wide range of conditions to meet individual application requirements .

Possibilità di regolare la velocità e la portata dell'aria per fornire un'ampia versatilità di funzionamento e soddisfare le più varie esigenze.

- Can be used to pick and place concrete block or packaging materials

Può essere usato per realizzare l'effetto ventosa nell'automazione industriale

- Typical applications : remove liquid/solid mixtures in air driven vacuum cleaners from sump areas, blow drying, fume evacuation, cooling

Tipiche applicazioni : rimozione di composti solido/liquido in pompe di aspirazione per pozzi di estrazione, essiccazione, aspirazione fumi, raffreddamento

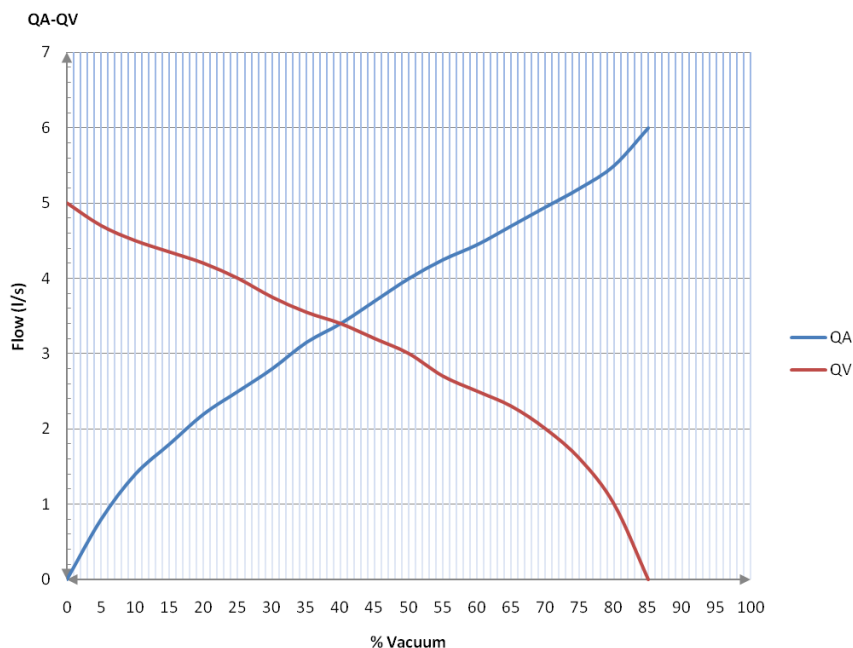
## Typical performance Characteristics

Caratteristiche tipiche

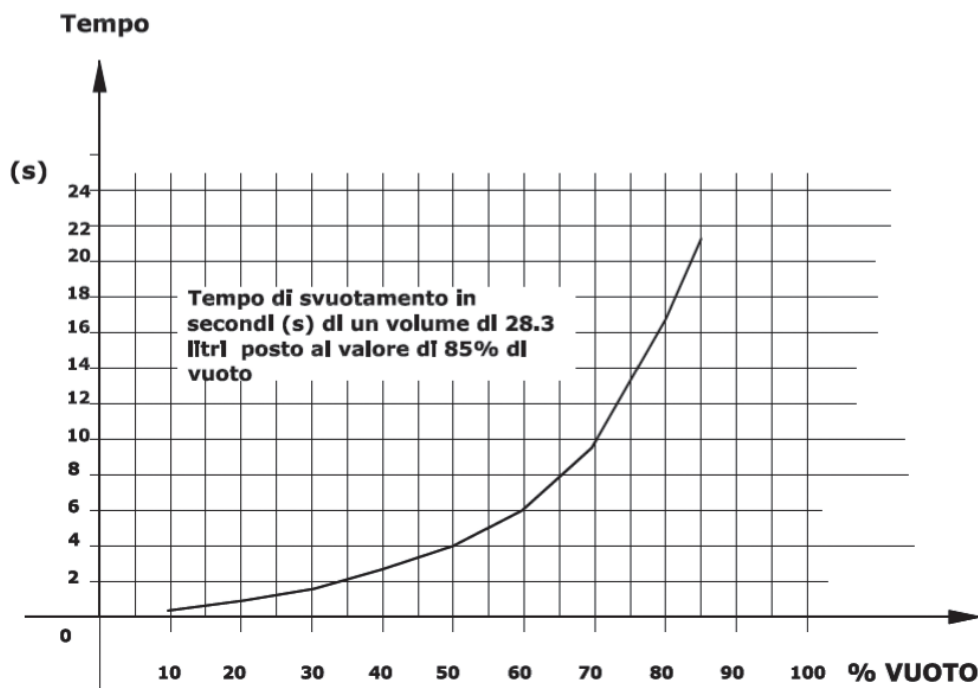
### Flow characteristics

Caratteristiche di portata

#### PORTATA



Air Consumption QA (l/s) vs Vacuum level (%) @ 5.5 bar



Evacuation time (seconds) based on 28.3 litres volume @ 85% vacuum level

## AISI316 Sample probe

Sonda di campionamento in AISI316

- Suitable to process sampling applications
- Full stainless steel 316 construction
- Suitable for corrosive environments
- NPT standard threads (other on demand)
- Available with 3 micron, 5 micron, 40 micron SS316 porous closed end tube
- Modular design allows different std probe lengths

- Adatto in applicazioni di campionamento di processo
- Costruzione completamente in acciaio inossidabile AISI316
- Idonea per ambienti corrosivi
- Filetti NPT standard (altri su richiesta)
- Disponibili con sonda in SS316 sinterizzato da 3, 5 o 40 micron
- La costruzione modulare consente differenti lunghezze standard della sonda



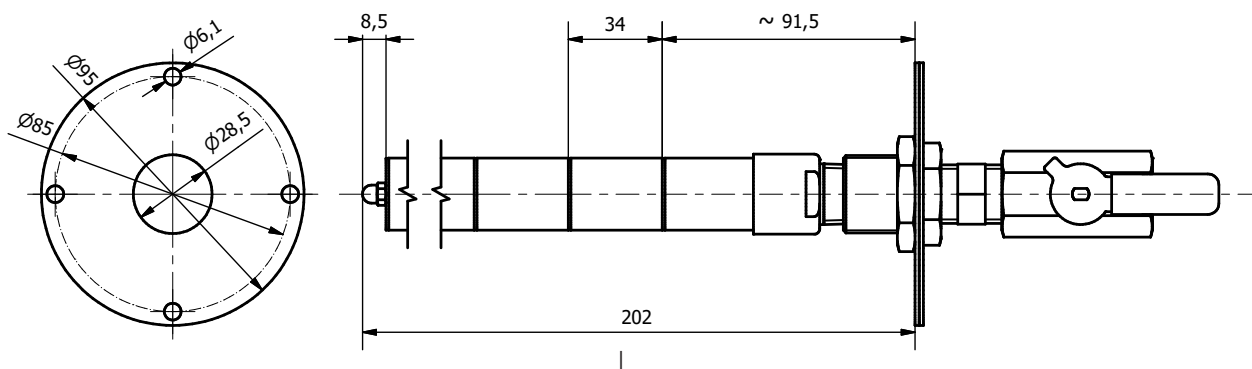
| Media / Fluido                                        | Sample gases                   |
|-------------------------------------------------------|--------------------------------|
| Port thread / Conessioni                              | 1/2"NPT F                      |
| Porous tube mesh<br>Dimensioni pori sonda             | 3, 5, 40 micron in st. st. 316 |
| Max working pressure /<br>Pressione massima di lavoro | vacuum to 10bar                |
| Working temperature /<br>Temperatura di esercizio     | -20 + 150°C                    |

| BUILDING MATERIALS                                           | Materiali costruttivi                                                  |
|--------------------------------------------------------------|------------------------------------------------------------------------|
| Flange in stainless steel AISI316                            | Flangia in AISI316                                                     |
| Seals in elastomer                                           | Tenute in elastomero                                                   |
| 3, 5, 40 micron filtering element in AISI316 stainless steel | Elemento filtrante da 3, 5 e 40 micron in acciaio inossidabile AISI316 |
| Ball valve & fittings in AISI316/316L                        | Valvola a sfera e raccordi in acciaio inossidabile AISI316/316L        |



## Overall dimension

Dimensioni



## Available Options & ordering info

Opzioni disponibili e come ordinare

### TYPE

SP= sample probe

### SIZE

08= DN 1/2"NPT + flanges

### CONNECTION OPTIONS

00= 1/2"NPT F  
01= male connector for 1/4"OD tube  
02= male connector for 6 mm OD tube  
B0= ball valve 1/2"NPT F  
B1= ball valve 1/2"NPT F+male connector for 1/4"OD tube  
B2= ball valve 1/2"NPT F+male connector for 6 mm OD tube

SP 08 B0 1 01 SS FK # #

### TUBE MESH

1= 5 micron  
3= 40 micron  
5= 3 micron

### PROBE LENGHT (L in drawing)

|              |             |             |             |             |
|--------------|-------------|-------------|-------------|-------------|
| 01= 91,5mm   | 07= 295,5mm | 13= 499,5mm | 19= 703,5mm | 25= 907,5mm |
| 02= 125,5 mm | 08= 329,5mm | 14= 543,5mm | 20= 737,5mm | 26= 941,5mm |
| 03= 159,5 mm | 09= 363,5mm | 15= 567,5mm | 21= 771,5mm | 27= 975,5mm |
| 04= 193,5mm  | 10= 397,5mm | 16= 601,5mm | 22= 805,5mm |             |
| 05= 227,5mm  | 11= 431,5mm | 17= 635,5mm | 23= 839,5mm |             |
| 06= 261,5mm  | 12= 465,5mm | 18= 669,5mm | 24= 873,5mm |             |

### Specials

## Stainless steel 316L & copper free aluminum silencers - SLHF/SLVP/SLSC\* series

Silenziatori in SS316L ed alluminio esente rame - Serie SLHF/SLVP/SLSC\*

- Available high flow, bug-screen and flush silencers
- Suitable to onshore, offshore, pharmaceutical, medical and food applications
- Full stainless steel 316L construction
- Suitable for corrosive environments
- NPT standard threads (other on demand)
- Quick delivery
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved



- Disponibili silenzatori ad alta portata, anti-insetto ed a scomparsa
- Adatto in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Costruzione completamente in acciaio inossidabile AISI316L
- Idonei per ambienti corrosivi
- Filetti NPT standard
- Rapida consegna
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 

|                                                          |                                                   |
|----------------------------------------------------------|---------------------------------------------------|
| <b>Media / Fluido</b>                                    | Compressed air, inert gases, sweet and sour gases |
| <b>Connection / Conessioni</b>                           | 1/8", 1/4", 1/2", 3/4", 1" NPT                    |
| <b>Working pressure</b><br>Pressione operativa           | 0...12bar                                         |
| <b>Operating Temperature</b><br>Temperatura di esercizio | -55°C up to 150°C                                 |
| <b>Rumor reduction</b><br>Riduzione del rumore           | 70%                                               |
| <b>Threads type / Tipi di filetto</b>                    | NPT male std, BSPP (on request)                   |

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

\*NB: 1/8" NPT SLSC flush silencers are available also with copper free aluminum alloy body

\*NB: i silenzatori a scomparsa SLSC da 1/8"NPT sono disponibili con corpo in alluminio esente rame

| BUILDING MATERIALS SS316L VERSION             | Materiali costruttivi versione in 316L                      |
|-----------------------------------------------|-------------------------------------------------------------|
| Body in 316/316L bar stock stainless steel    | Corpo in acciaio inossidabile da barra AISI316/316L         |
| Cup in 316/316L bar stock stainless steel     | Fondello in acciaio inossidabile AISI316/316L               |
| Filter in sinterized 316 stainless steel wire | Filtro in filo di acciaio inossidabile AISI316 sinterizzato |
| Screws in A4 stainless steel                  | Viti in acciaio inossidabile A4                             |

| BUILDING MATERIALS ALUMINUM VERSION -ONLY SLSC 1/8"NPT SERIES | Materiali costruttivi versione in alluminio - solo serie SLSC 1/8"NPT |
|---------------------------------------------------------------|-----------------------------------------------------------------------|
| Body in copper free aluminum alloy                            | Corpo in alluminio esente rame                                        |
| Filter in 316 stainless steel wire                            | Filtro in filo di acciaio inossidabile AISI316                        |

## Overall dimension

Dimensioni di ingombro

### SLHF - high flow silencers

SLHF - silenziatori ad alta portata

Fig.1

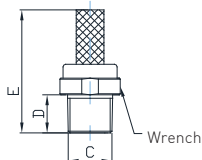
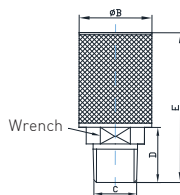


Fig.2



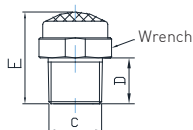
| Models<br>Modelli | Size-C<br>Taglia | Thread<br>Filetto | E<br>(mm) | D<br>(mm) | B<br>(mm) | Wrench<br>Chiave | Drawing<br>Disegno |
|-------------------|------------------|-------------------|-----------|-----------|-----------|------------------|--------------------|
| SLHF02NSS         | 1/8"             | NPT male          | 28,5      | 9         | -         | 13               | Fig 1              |
| SLHF04NSS         | 1/4"             | NPT male          | 35,5      | 11        | -         | 17               | Fig 1              |
| SLHF06NSS         | 3/8"             | NPT male          | 40,65     | 13        | -         | 19               | Fig 1              |
| SLHF08NSS         | 1/2"             | NPT male          | 48,15     | 18,5      | -         | 24               | Fig 1              |
| SLHF12NSS         | 3/4"             | NPT male          | 69,5      | 20        | 58        | 36               | Fig 2              |
| SLHF16NSS         | 1"               | NPT male          | 72,5      | 23        | 58        | 36               | Fig 2              |

For version with BSPP thread, substitute the 'N' in the code with 'P'  
Per la versione con filetto BSPP, sostituire la 'N' nel codice con 'P'

### SLVP - bug-screen silencers

SLVP - silenziatori anti insetto

Fig.3



| Models<br>Modelli | Size-C<br>Taglia | Thread<br>Filetto | E<br>(mm) | D<br>(mm) | Wrench<br>Chiave | Drawing<br>Disegno |
|-------------------|------------------|-------------------|-----------|-----------|------------------|--------------------|
| SLVP02NSS         | 1/8"             | NPT male          | 17        | 9         | 13               | Fig 3              |
| SLVP04NSS         | 1/4"             | NPT male          | 22        | 11        | 17               | Fig 3              |
| SLVP06NSS         | 3/8"             | NPT male          | 20,5      | 13        | 19               | Fig 3              |
| SLVP08NSS         | 1/2"             | NPT male          | 26,5      | 18,5      | 24               | Fig 3              |
| SLVP12NSS         | 3/4"             | NPT male          | 30        | 20        | 30               | Fig 3              |
| SLVP 16NSS        | 1"               | NPT male          | 37        | 24,5      | 36               | Fig 3              |

For version with BSPP thread, substitute the 'N' in the code with 'P'  
Per la versione con filetto BSPP, sostituire la 'N' nel codice con 'P'

### SLSC- Flush silencers

SLSC - Silenziatori a scomparsa

Fig.4

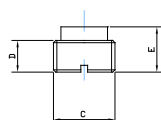
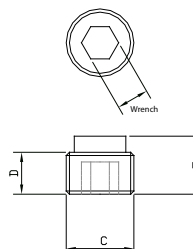


Fig.5



| Models<br>Modelli | Size-C<br>Taglia | Thread<br>Filetto | E<br>(mm) | D<br>(mm) | Wrench<br>Chiave | Drawing<br>Disegno |
|-------------------|------------------|-------------------|-----------|-----------|------------------|--------------------|
| SLSC02NSS*        | 1/8"             | NPT male          | 8         | 6,5       | 5                | Fig 5              |
| SLSC04NSS         | 1/4"             | NPT male          | 9,5       | 7         | -                | Fig 4              |

\* Copper free aluminum alloy body / Esecuzione con corpo alluminio esente ramemod: SLSC02NAL

## Stainless steel 316L dust excluder - PV & PVSL series

Dust excluder in SS316L - Serie PV e PVSL

- Effective protection of exhaust ports against dirt, dust, moisture and insects
- Large flow capacity (no obstruction of the flow)
- Tightly closed exhaust port
- Low break away pressure
- Self-cleaning action
- Stainless steel 316 construction
- Suitability for corrosive environments
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X

-  &  approved

- Protezione delle connessioni di scarico da sporco, polvere, umidità ed insetti.
- Grande capacità di flusso (nessuna ostruzione del passaggio)
- Porte di scarico a tenuta soffice
- Bassa caduta di pressione
- Azione auto-pulente
- Costruzione in acciaio inossidabile AISI316
- Idoneità agli ambienti corrosivi
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed 



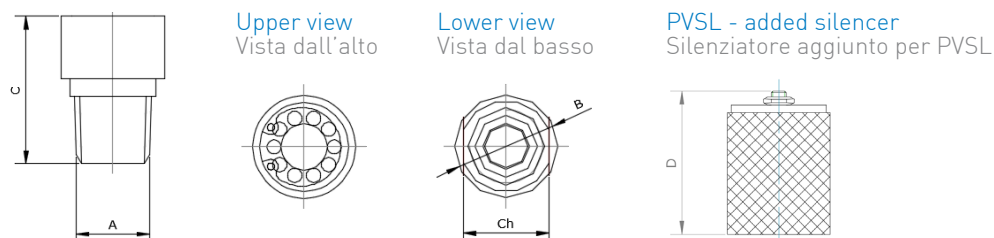
|                                                   |                                                   |
|---------------------------------------------------|---------------------------------------------------|
| Media / Fluido                                    | Compressed air, inert gases, sweet and sour gases |
| Connection / Connessioni                          | 1/4", 1/2", 3/4", 1" NPT                          |
| Operating Temperature<br>Temperatura di esercizio | -20°C up to 80°C                                  |
| Threads type / Tipi di filetto                    | NPT male                                          |

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

| BUILDING MATERIALS                                | Materiali costruttivi                                |
|---------------------------------------------------|------------------------------------------------------|
| Body in 316/316L bar stock stainless steel        | Corpo in acciaio inossidabile da barra AISI316/316L  |
| Loking disk in 316/316L bar stock stainless steel | Disco bloccante in acciaio inossidabile AISI316/316L |
| Diaphragm in NBR, HNBR, LT, FKM, Special          | Membrana in NBR, HNBR, LT, FKM, Speciali             |
| Screws and washers in stainless steel             | Viti e rondelle in acciaio inossidabile A4           |

## Overall dimension

Dimensioni di ingombro



| Models<br>Modelli | Size-A<br>Taglia | Thread<br>Filetto | B<br>(mm) | C<br>(mm) | Wrench<br>Chiave | D<br>(mm) |
|-------------------|------------------|-------------------|-----------|-----------|------------------|-----------|
| PV04NSS**0        | 1/4"             | NPT male          | 18        | 30        | 15               | 20        |
| PV08NSS**0        | 1/2"             | NPT male          | 29        | 42        | 24               | 38        |
| PV12NSS**0        | 3/4"             | NPT male          | 50        | 55        | 46               | 40        |
| PV16NSS**0        | 1"               | NPT male          | 50        | 55        | 46               | 40        |

\*\* Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

To have the AISI316 wire silencer mounted, use code PVSL (and for dimensions, add height D to height C)/  
per aggiungere silenziatore in filo in 316, usare il codice PVSL (per le dimensioni, aggiungere quota D ad altezza C)

## SS 304 case, nickel plated connection Bourdon pressure gauges – MBSN series

Manometri Bourdon cassa inox, connessione nichelata – Serie MBSN

- Suitable to onshore, pharmaceutical, chemical, medical and industrial applications
- Stainless steel case construction
- Suitable for gas or liquids not corrosive to the copper alloy
- EN837-1
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X /  II 2D Ex h IIC T85°C/T100°C Db X
- Adatto in applicazioni chimiche, farmaceutiche, medicali ed industriali
- Costruzione con cassa in acciaio inossidabile
- Idonei per gas o liquidi compatibili con le leghe di rame
- EN837-1

|                                                          |                                      |
|----------------------------------------------------------|--------------------------------------|
| <b>Media / Fluido</b>                                    | Compressed air, inert gases, liquids |
| <b>Gauge Connection /</b><br>Connessione manometro       | 1/8" - 1/4" NPT backside             |
| <b>Working range</b><br>Range operativo                  | 75% of full scale value              |
| <b>Overpressure</b><br>Sovrappressione                   | 25%                                  |
| <b>Accuracy / Precisione</b>                             | 2,5%                                 |
| <b>Operating Temperature</b><br>Temperatura di esercizio | -25°C up to 65°C                     |
| <b>Process Temperature</b><br>Temperatura di processo    | 0°C up to 65°C                       |
| <b>Weather protection</b><br>Protezione ambientale       | IP54                                 |



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

| Models<br>Modelli | Diameter<br>Diametro | Scale<br>Scala   | Thread<br>Filetto | Stocked<br>Gestito a magazzino |
|-------------------|----------------------|------------------|-------------------|--------------------------------|
| MBSNP4S2PN3S      | 40mm                 | 0/2BAR +psi+kpa  | 1/8" NPT backside | Yes                            |
| MBSNP4S2PN04      | 40mm                 | 0/2,5BAR+psi+kpa | 1/8" NPT backside | Yes                            |
| MBSNP4S2PN05      | 40mm                 | 0/4BAR+psi+kpa   | 1/8" NPT backside | Yes                            |
| MBSNP4S2PN6S      | 40mm                 | 0/7BAR+psi+kpa   | 1/8" NPT backside | Yes                            |
| MBSNP4S2PN07      | 40mm                 | 0/10BAR+psi+kpa  | 1/8" NPT backside | Yes                            |
| MBSNP4S2PN92      | 40mm                 | 0/10kg/cm2       | 1/8" NPT backside | Yes                            |
| MBSNP5S2PN07      | 50mm                 | 0/10BAR+psi+kpa  | 1/8" NPT backside | Yes                            |
| MBSNP5S4PN05      | 50mm                 | 0/4BAR+psi+kpa   | 1/4" NPT backside | Yes                            |
| MBSNP5S4PN6S      | 50mm                 | 0/7BAR+psi       | 1/4" NPT backside | Yes                            |
| MBSNP5S4PN07      | 50mm                 | 0/10BAR+psi      | 1/4" NPT backside | Yes                            |

Other execution om request / oltre versioni disponibili su richiesta

| Building Materials                         | Materiali costruttivi                              |
|--------------------------------------------|----------------------------------------------------|
| Threaded connection in nickel plated brass | Connessione filettata in ottone nichelato          |
| Bourdon tube C type in copper alloy        | Molla Bourdon di tipo c in lega di rame            |
| Movement in copper alloy                   | Movimento in lega di rame                          |
| Case in AISI304 stainless steel            | Cassa in acciaio inossidabile AISI304              |
| Case ring in AISI304 stainless steel       | Anello della cassa in acciaio inossidabile AISI304 |
| Pointer in black aluminum                  | Lancetta in alluminio nero                         |
| Dial in painted aluminum                   | Quadrante in alluminio verniciato                  |

## All stainless steel Bourdon type standard pressure gauges – MBS6 series

Manometri Bourdon standard tutto inox – Serie MBS6

- Suitable to offshore, onshore, pharmaceutical, chemical, medical and industrial applications
- Stainless steel case construction
- Suitable for gas or liquids
- Dry or liquid filled versions
- EN837-1
- 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 ad offshore/onshore applicazioni chimiche, farmaceutiche, medicali ed industriali
- Costruzione con cassa in acciaio inossidabile
- Idonei per gas o liquidi
- Versioni a secco o con riempimento
- EN837-1
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X  
II 2D Ex h IIIC T85°C/T100°C Db X

|                                                            |                                                             |
|------------------------------------------------------------|-------------------------------------------------------------|
| <b>Media / Fluido</b>                                      | Compressed air, inert gases, sweet and sour gases , liquids |
| <b>Gauge Connection /</b><br>Connessione manometro         | 1/8", 1/4"NPT radial or backside                            |
| <b>Working range /</b><br>Range operativo                  | 75% of full scale value                                     |
| <b>Overpressure /</b><br>Sovrappressione                   | 25%                                                         |
| <b>Accuracy / Precisione</b>                               | 2.5%                                                        |
| <b>Operating Temperature /</b><br>Temperatura di esercizio | -55°C up to +90°C                                           |
| <b>Process Temperature /</b><br>Temperatura di processo    | 100°C max                                                   |

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

| <b>Building Materials</b>                           | <b>Materiali costruttivi</b>                               |
|-----------------------------------------------------|------------------------------------------------------------|
| Threaded connection in AISI316/316L stainless steel | Connessione filettata in acciaio inossidabile AISI316/316L |
| Movement in AISI316 stainless steel                 | Movimento acciaio inossidabile AISI316                     |
| Case in AISI316 stainless steel                     | Cassa in acciaio inossidabile AISI316                      |
| Pointer in black aluminum                           | Lancetta in alluminio nero                                 |
| Dial in painted aluminum                            | Quadrante in alluminio verniciato                          |

## Available models

Modelli disponibili

| Models<br>Modelli | Diameter<br>Diametro | Window<br>Trasparente | Scale<br>Scala      | Thread<br>Filetto |
|-------------------|----------------------|-----------------------|---------------------|-------------------|
| MBS6P4S2PN04-ATEX | 40mm                 | PC                    | 0/2,5 bar+psi+kpa   | 1/8"NPT backside  |
| MBS6V4S2PN04-ATEX | 40mm                 | Safety Glass          | 0/2,5 bar+psi+kpa   | 1/8"NPT backside  |
| MBS6P4S2PN05-ATEX | 40mm                 | PC                    | 0/4 bar+psi+kpa     | 1/8"NPT backside  |
| MBS6V4S2PN05-ATEX | 40mm                 | Safety Glass          | 0/4 bar+psi+kpa     | 1/8"NPT backside  |
| MBS6P4S2PN06-ATEX | 40mm                 | PC                    | 0/6 bar+psi+kpa     | 1/8"NPT backside  |
| MBS6P4S2PN6S-ATEX | 40mm                 | PC                    | 0/7 bar+psi+kpa     | 1/8"NPT backside  |
| MBS6P4S2PN24      | 40mm                 | PC                    | 0/8 bar+psi+kpa     | 1/8"NPT backside  |
| MBS6P4S2PN07-ATEX | 40mm                 | PC                    | 0/10 bar+psi+kpa    | 1/8"NPT backside  |
| MBS6P4S4PN07-ATEX | 40mm                 | PC                    | 0/10 bar+psi+kpa    | 1/4"NPT backside  |
| MBS6P4S2PN7S-ATEX | 40mm                 | PC                    | 0/12 bar+psi+kpa    | 1/8"NPT backside  |
| MBS6P4S2PN31      | 40mm                 | PC                    | 0/1,4 mpa+bar+psi   | 1/8"NPT backside  |
| MBS6P4S2PN102     | 40mm                 | PC                    | 0/2,5 kg/cm2+psi    | 1/8"NPT backside  |
| MBS6P4S2PN92-ATEX | 40mm                 | PC                    | 0/10 kg/cm2+psi     | 1/8"NPT backside  |
| MBS6P5S2PN6S-ATEX | 50mm                 | PC                    | 0/7 bar+psi+kpa     | 1/8"NPT backside  |
| MBS6P5S2PN07-ATEX | 50mm                 | PC                    | 0/10 bar+psi+kpa    | 1/8"NPT backside  |
| MBS6P5S4PN07-ATEX | 50mm                 | PC                    | 0/10 bar+psi+kpa    | 1/4"NPT backside  |
| MBS6P5S2RN07-ATEX | 50mm                 | PC                    | 0/10 bar+psi+kpa    | 1/8"NPT radial    |
| MBS6P5S4PN7S-ATEX | 50mm                 | PC                    | 0/12 bar+psi+kpa    | 1/4"NPT backside  |
| MBS6P5S2PN08-ATEX | 50mm                 | PC                    | 0/16 bar+psi+kpa    | 1/8"NPT backside  |
| MBS6P5S2PN8S-ATEX | 50mm                 | PC                    | 0/20 bar+psi+kpa    | 1/8"NPT backside  |
| MBS6P5S2PN92-ATEX | 50mm                 | PC                    | 0/10 kg/cm2+psi     | 1/8"NPT backside  |
| MBS6V5S2PN92-ATEX | 50mm                 | Safety Glass          | 0/10 kg/cm2+psi     | 1/8"NPT backside  |
| MBS6V5S4PN103     | 50mm                 | Safety Glass          | 0/10 bar+kg/cm2+mpa | 1/4"NPT backside  |
| MBS6V6S4PN04      | 60mm                 | Safety Glass          | 0/2,5 bar+psi+kpa   | 1/4"NPT backside  |
| MBS6V6S4PN07-ATEX | 60mm                 | Safety Glass          | 0/10 bar+psi+kg/cm2 | 1/4"NPT backside  |
| MBS6V6S4RN07-ATEX | 60mm                 | Safety Glass          | 0/10 bar+psi+kg/cm2 | 1/4"NPT radial    |
| MBS6V6S4PN08-ATEX | 60mm                 | Safety Glass          | 0/16 bar+psi+kg/cm2 | 1/4"NPT backside  |
| MBS6V6S4RN08-ATEX | 60mm                 | Safety Glass          | 0/16 bar+psi+kg/cm2 | 1/4"NPT radial    |
| MBS6P6S4PN21      | 60mm                 | PC                    | 0/16 bar+psi+kpa    | 1/4"NPT backside  |
| MBS6V6S4PN31-ATEX | 60mm                 | Safety Glass          | 0/14 bar+psi+mpa    | 1/4"NPT backside  |
| MBS6V6S4PN38      | 60mm                 | Safety Glass          | 0/10 bar+psi+kpa    | 1/4"NPT backside  |
| MBS6V6S4RN38-ATEX | 60mm                 | Safety Glass          | 0/10 bar+psi+kpa    | 1/4"NPT radial    |

\* All the MBS6 can be supplied with glycerine filling or silicon oil filling: substitute the S at the 7th digit of the code with G (for glycerine) or with SI (for silicon oil)

**Other execution on request / altre versioni disponibili su richiesta**



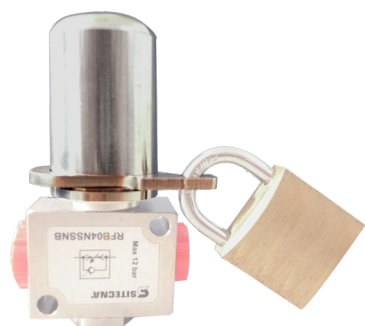
## Stainless steel tamperproof kit - KTAM series

Kit anti-manomissione in acciaio inossidabile - serie KTAM

The anti-tamper kit is an all stainless steel locking cap that prevents unintended or malicious pressure adjustment and accidental damage to the adjusting screw.

The cap is lockable by means of a padlock, an hasp or lock and so it provides rugged security and ease of use for all applications.

- Suitable to onshore, offshore, pharmaceutical, medical and food applications
- Full stainless steel construction
- Suitable for corrosive environments



Il kit anti-manomissione è un sistema di bloccaggio interamente in acciaio inossidabile che previene modifiche di pressione - involontarie o dolose - e danni accidentali alla vite di regolazione. Il sistema può essere chiuso tramite un lucchetto, un fermaglio o un cavo in acciaio e fornisce così sicurezza e facilità d'uso in tutte le applicazioni.

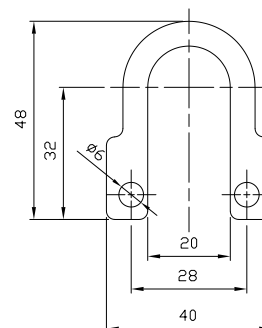
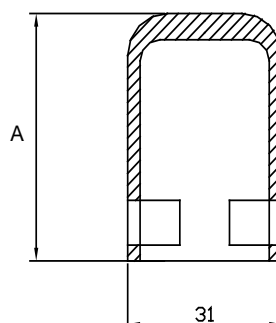
- Adatto in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Costruzione completamente in acciaio inossidabile
- Idonei per ambienti corrosivi

## Overall dimension

Dimensioni

KTAM 1/4", 3/8", 1/2": A = 47mm

KTAM 3/4", 1": A = 55mm



## Sitecna's products that can use KTAM

Prodotti Sitecna che possono montare il KTAM

| Product<br>Prodotto                   | Size<br>Dimensioni             | Models<br>Modello                                        |
|---------------------------------------|--------------------------------|----------------------------------------------------------|
| Filter Regulators                     | 1/4", 3/8", 1/2", 3/4", 1" NPT | FR04, FR06, FR08, FR12, FR16                             |
| Regulators                            | 1/4", 3/8", 1/2", 3/4", 1" NPT | R04, R06, R08, R12, R16                                  |
| Back Pressure Regulators              | 1/4" NPT                       | BP04                                                     |
| Pneumatic 2&3 Ways Switching Valves   | 1/4" NPT                       | SV04, S304                                               |
| Uni & Bi-Directional Flow Regulators  | 1/4" NPT                       | RFU04, RFB04                                             |
| Uni & Bi-Directional Flow Regulators* | 3/8", 1/2", 3/4", 1" NPT       | RFU06, RFU08, RFU12, RFU16<br>RFB06, RFB08, RFB12, RFB16 |

\*Available only as option on new products and not as retro-fit item

Disponibile solo come opzione su nuovi prodotti e non come accessorio a parte



## AISI316L Hexagonal ball valves - VS serie

Valvole a sfera esagonali in AISI316L - serie VS

- AISI 316L construction
- 2/2 ON/OFF function
- 1/4" (Dn 5mm) - 1/2" (Dn 9mm) sizes - 3/4" (DN 12,5mm)
- Compact size
- Low torque quarter turn actuation
- Bi-directional flow
- Anti blow-out spindle
- Standard NPT female threads
- Full material traceability
- ATEX 2014/34/UE 
-  &  approved



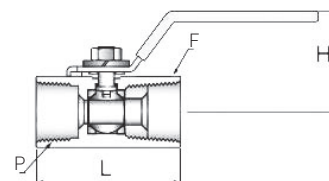
- Materiale di costruzione AISI 316L
- Funzione 2/2 ON/OFF
- Taglie da 1/4" (Dn 5 mm), 1/2" (Dn 9mm) e 3/4" (Dn 12,5mm)
- Dimensioni contenute
- Attuazione a un quarto di giro a bassa coppia
- Flusso bi-direzionale
- Stelo anti-espulsione
- Filetti femmina NPT standard
- Completa rintracciabilità dei materiali
- ATEX 2014/34/UE 
- Approvato  ed 

|                                                          |                                            |
|----------------------------------------------------------|--------------------------------------------|
| <b>Media / Fluido</b>                                    | <b>steam, water, air, compatible gases</b> |
| <b>Port thread / Connessioni</b>                         | <b>1/4", 1/2", 3/4" NPT F</b>              |
| <b>Working pressure</b><br>Pressione di lavoro           | <b>up to 1000 psi (70bar at 38°C)</b>      |
| <b>Working Temperature</b><br>Temperatura di esercizio   | <b>-50° up to 230°C</b>                    |
| <b>Stocking Temperature</b><br>Temperatura di stoccaggio | <b>-65 up to 230°C</b>                     |

## Overall dimension

Dimensioni

| CODE<br>Codici         | DIMENSIONS mm - Dimensioni mm |      |    |    |          |
|------------------------|-------------------------------|------|----|----|----------|
|                        | P                             | Dn   | L  | H  | Wrench F |
| <b>VS041K0000SSPT0</b> | 1/4"NPT                       | 5    | 40 | 33 | 17       |
| <b>VS081K0000SSPT0</b> | 1/2"NPT                       | 9    | 55 | 49 | 27       |
| <b>VS121K0000SSPT0</b> | 3/4"NPT                       | 12.5 | 61 | 54 | 32       |



|                                                   |                                              |
|---------------------------------------------------|----------------------------------------------|
| <b>BUILDING MATERIALS</b>                         | <b>Materiali costruttivi</b>                 |
| <b>Body &amp; nuts in AISI316 stainless steel</b> | Corpo e dadi in acciaio inossidabile AISI316 |
| <b>Internal parts in AISI316</b>                  | Parti interne in AISI316                     |
| <b>Handle in AISI304 + PVC</b>                    | Leva in AISI304 + PVC                        |
| <b>Ball seat in PTFE</b>                          | Sede valvola in PTFE                         |

BT-VSSS/C23A

## AISI316 Auxiliary assembly Fittings - 30bar / 450PSI max operationg pressure

Raccordi ausiliari per montaggio in AISI316 - pressione massima di utilizzo 30bar / 45PSI

- Suitable to onshore, offshore, pharmaceutical, medical and food applications
- Full stainless steel construction
- Suitable for corrosive environments
- NPT standard threads
- Quick delivery

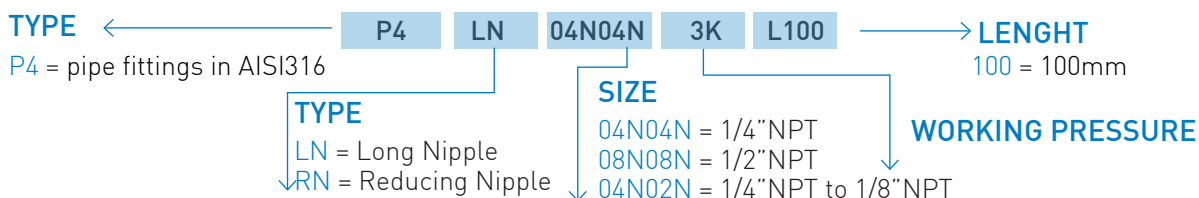
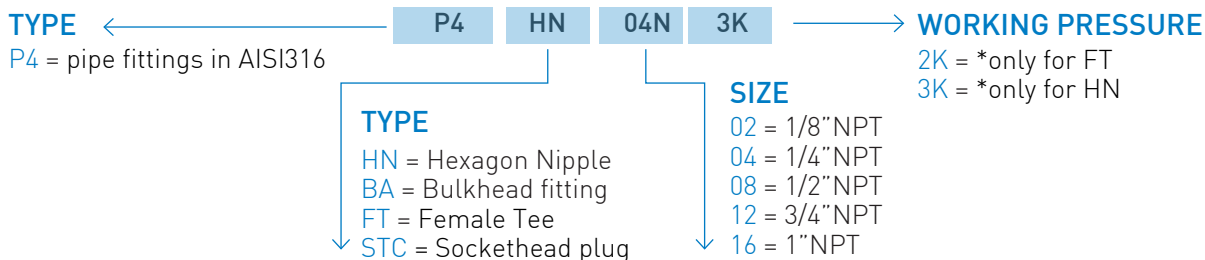
- Adatto in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Costruzione completamente in acciaio inossidabile
- Idonei per ambienti corrosivi
- Filetti NPT standard
- Rapida consegna



|                                                       |                                     |
|-------------------------------------------------------|-------------------------------------|
| Media / Fluido                                        | steam, water, air, compatible gases |
| Port thread / Connessioni                             | 1/8", 1/4", 1/2", 3/4", 1"NPT       |
| Max operating pressure<br>Pressione di lavoro massima | 30bar (450PSI)                      |

### Ordering information

Come ordinare



| BUILDING MATERIALS                                                              | Materiali costruttivi                                                          |
|---------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| machined from bar stock in AISI316/316L stainless steel (ASTM A479, ASME SA479) | lavorati da barra in acciaio inossidabile AISI316/316L (ASTM A479, ASME SA479) |
| shaped from castings in CF3M/316L stainless steel                               | In acciaio inossidabile microfuso CF3M/316L                                    |

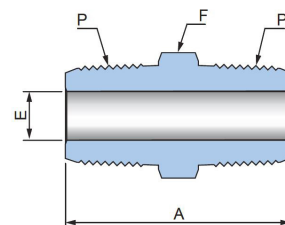
## Overall dimension

Dimensioni

### P4HN - Hexagon Nipple

P4HN - Nipplo esagonale

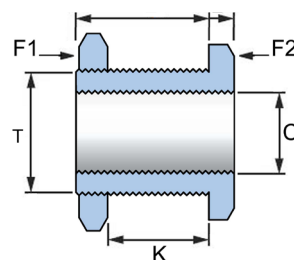
| CODE<br>Codici | DIMENSIONS mm - Dimensioni mm |      |          |      |
|----------------|-------------------------------|------|----------|------|
|                | P                             | E    | Wrench F | A    |
| P4HN04N3K      | 1/4"NPT                       | 6,8  | 14       | 35   |
| P4HN08N3K      | 1/2"NPT                       | 9,7  | 22       | 46,7 |
| P4HN12N3K      | 3/4"NPT                       | 15,3 | 27       | 46,7 |
| P4HN16N3K      | 1"NPT                         | 21,8 | 35       | 60   |



### P4BA - Bulkhead fitting

P4BA - Passaparete

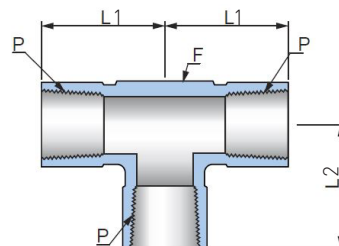
| CODE<br>Codici | DIMENSIONS mm - Dimensioni mm |        |    |      |    |    |      |
|----------------|-------------------------------|--------|----|------|----|----|------|
|                | C                             | Wrench |    | Kmax | L1 | L2 | T    |
|                |                               | F1     | F2 |      |    |    |      |
| P4BA04N        | 1/4"NPT                       | 27     | 24 | 17   | 23 | 5  | 20,5 |
| P4BA08N        | 1/2"NPT                       | 36     | 32 | 22   | 29 | 6  | 28,5 |
| P4BA12N        | 3/4"NPT                       | 41     | 41 | 22   | 30 | 6  | 34,5 |



### P4FT- Female Tee

P4FT - Raccordo a T femmina

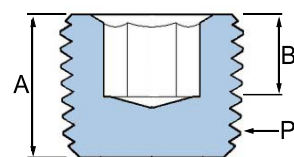
| CODE<br>Codici | DIMENSIONS mm - Dimensioni mm |    |      |          |
|----------------|-------------------------------|----|------|----------|
|                | P                             | L1 | L2   | Wrench F |
| P4FT04N2K      | 1/4"NPT                       | 19 | 18,5 | 14       |
| P4FT08N2K      | 1/2"NPT                       | 30 | 30   | 20       |



### P4STC - Sockethead plug

P4STC- Tappo ad esagono incassato

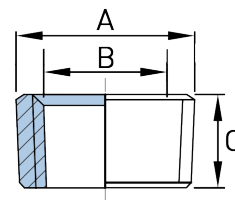
| CODE<br>Codici | DIMENSIONS mm - Dimensioni mm |    |   |        |
|----------------|-------------------------------|----|---|--------|
|                | P                             | A  | B | Wrench |
| P4STC02N       | 1/8"NPT                       | 7  | 4 | 4      |
| P4STC04N       | 1/4"NPT                       | 10 | 4 | 6      |



### P4RB - Reducing Nipple

P4RB - Riduzione

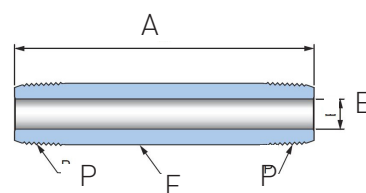
| CODE<br>Codici  | DIMENSIONS mm - Dimensioni mm |         |   |
|-----------------|-------------------------------|---------|---|
|                 | A                             | B       | C |
| P4RB04N02N-316L | 1/4"NPT                       | 1/8"NPT | 7 |



### P4LN - Long Nipple

P4LN - Nipplo lungo

| CODE<br>Codici   | DIMENSIONS mm - Dimensioni mm |     |          |     |
|------------------|-------------------------------|-----|----------|-----|
|                  | P                             | E   | Wrench F | A   |
| P4LN04N04N3KL100 | 1/4"NPT                       | 6,8 | 14       | 100 |
| P4LN08N08N3KL100 | 1/2"NPT                       | 12  | 22       | 100 |





# TECHNICAL INFORMATION



## Technical information Informazioni tecniche

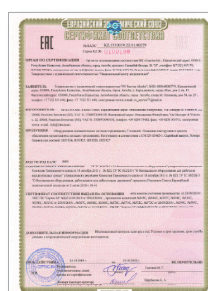
www.sitecna.eu



**ISO 9001 certificate**  
Certificato ISO 9001



**2014/34/EU air equipments declaration**  
Dichiarazione 2014/34/UE trattamento aria



**EAC certification**  
Certificazione EAC



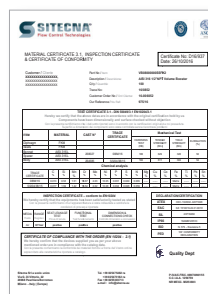
**PED declaration**  
Dichiarazione PED



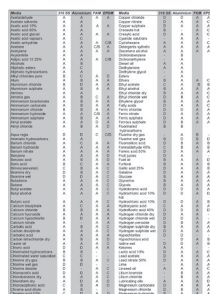
**SIL certificate**  
Certificato SIL



**IP66 test certificate**  
Certificato di prova IP66



**EN10204/3.1 & Test certificate prototype**  
Prototipo certificato EN10204/3.1  
e test di collaudo



**Materials compatibility & temperature chart**  
Tabella compatibilità e temperature  
dei materiali

BT-CTTC/C21A





## CERTIFICATO n. 579 - rev. 8

|                                          |                                                                                                                                                                        |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Il sistema di gestione per la qualità di | SITECNA Srl<br>Via G. Di Vittorio 22 - 20068 Peschiera Borromeo MI                                                                                                     |
| È conforme alla norma                    | UNI EN ISO 9001:2015                                                                                                                                                   |
| Per il seguente campo di applicazione    | Commercializzazione, sviluppo, progettazione e assemblaggio di apparecchiature e sistemi pneumatici, idraulici, elettromeccanici, elettrici ed elettronici (IAF 29/18) |
| Siti                                     | Peschiera Borromeo MI                                                                                                                                                  |

La validità del Certificato è soggetta al rispetto delle condizioni stabilite nel Regolamento per la certificazione di ANCIS Srl

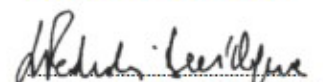
La validità del Certificato è subordinata a sorveglianza periodica ed al riesame completo con periodicità triennale

Riferirsi alla documentazione aziendale per i dettagli delle esclusioni ai requisiti della norma ISO 9001:2015

**16 gennaio 2012**  
*Prima emissione*

**12 gennaio 2024**  
*Emissione corrente*

**15 gennaio 2027**  
*Scadenza*

  
Amministratore delegato

### ANCIS Srl

segreteria@ancis.it • www.ancis.it  
I • 20122 Milano • Viale Bianca Maria 35  
Telefono +39 020062051 • Telefax +39 0276005647



MS N°0028

Membro degli Accordi  
di Mutuo Riconoscimento EA, IAF e ILAC  
Signatory of EA, IAF and ILAC  
Mutual Recognition Agreement



Trace No: xxxx

**Dichiarazione di conformità UE**  
**In accordo con la Direttiva Europea 2014/34/UE**
**EU-Declaration of Conformity**  
**In accordance with Directive 2014/34/EU**

Noi, Sitecna Srl, dichiariamo che i seguenti prodotti / Sitecna Srl declares that the following equipment:

| Product                | model  | Product             | model   | Product              | model                     |
|------------------------|--------|---------------------|---------|----------------------|---------------------------|
| Filter                 | F...   | Volume Booster      | VB...   | Flow regulator       | RFB..., RFL...            |
| Regulator              | R...   | Control spool valve | DP...   | Glass tube flowmeter | FLG55..., FLG5M           |
| Filter Regulator       | FR...  | Quick exhaust valve | VSR...  | Vacuum pump          | ST-VP...                  |
| Back Pressure valve    | BP...  | Lock-up valve       | LK...   | Silencer             | SLHF..., SLVP..., SLSC... |
| 2 ways switching valve | SV...  | Overload protector  | SCLP... | Dust excluder        | PV..., PVS...             |
| 3 ways switching valve | S3L... | Tee Filter          | TF      | Pressure gauge       | ME55..., ME56..., ME5M... |

Sono conformi alla normativa di armonizzazione dell'Unione / They comply with the Union harmonization legislation:

|                                  |                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Direttiva 2014/34/UE ATEX</b> | <b>Direttiva 2014/34/UE del Parlamento europeo e del Consiglio, del 26 febbraio 2014, concernente l'armonizzazione delle legislazioni degli Stati membri relative agli apparecchi e sistemi di protezione destinati a essere utilizzati in atmosfera potenzialmente esplosiva (rilusione) Testo rilevante ai fini del SEE.</b> |
|                                  | <b>Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (recast) Text with EEA relevance.</b>                                       |

Secondo le seguenti Norme di riferimento / As per following reference Normative Documents:

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EN ISO 20079-30:2010</b> | <b>Atmosfera esplosiva - Apparecchi non elettrici per atmosfera esplosiva - Metodo di base e requisiti</b><br>Explosive atmospheres - Non-Electrical equipment for explosive atmospheres - Basic method and requirements                                                                                                                                                                                                         |
| <b>EN ISO 20079-37:2010</b> | <b>Atmosfera esplosiva - Apparecchi non elettrici per atmosfera esplosiva - Tipo di protezione non elettrica per sicurezza costruttiva "t", per controllo della sorgente di accensione "t", per immersione in liquido "t"</b><br>Explosive atmospheres - Non-Electrical equipment for explosive atmospheres - Non-electrical type of protection constructional safety "t", control of ignition sources "t", liquid immersion "t" |
| <b>EN 1127-1:2011</b>       | <b>Atmosfera esplosiva - Prevenzione dell'esplosione e protezione contro l'esplosione - Concetti fondamentali e metodologia</b><br>Explosive atmospheres - Explosion prevention and protection - Basic concepts and methodology                                                                                                                                                                                                  |

Ai sensi della Direttiva 2014/34/UE, i prodotti sopra indicati riportano la seguente marcatura / According to the Directive 2014/34/EU, above mentioned products reports the following marking:


**II 2G Ex h IIC T105 Gb X**  
**II 2D Ex h IIC T135°C/T100°C Gb X**

 Inoltre, ai sensi della direttiva 2014/34/UE, i prodotti sopra menzionati sono oggetto, per gli aspetti relativi sia alla progettazione sia alla fabbricazione, al controllo interno di fabbricazione (Allegato VIII - Modulo A). Ref 557EX-Ab 321326 o/o N° 0035 TÜV Rheinland.  
 In conformity to Directive 2014/34/EU, the above mentioned equipment, regarding their design and production, are object to internal manufacturing check (Attachment VIII - Module A). Ref 557EX-Ab 321326 o/o N° 0035 TÜV Rheinland.

 La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.  
 This declaration of conformity is issued under exclusive responsibility of the manufacturer.

 Milan, 20/05/2020  
 Davide Matteo De Corrado  
 Managing Director



 Sitecna Srl a socio unico  
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 Milano - Italy ( Europe)

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 Fax +39 0255303713  
 e-mail : info@sitecna.eu

 P.IVA/C.FISC. 08973090155  
 NR MECC. MI253803  
 C.C.I.A.A. 1259759





# ЕВРАЗИЙСКИЙ ЭКОНОМИЧЕСКИЙ СОЮЗ СЕРТИФИКАТ СООТВЕТСТВИЯ

№ ЕАЭС KZ.1510019.22.01.00279

Серия KZ № 0100198

## ОРГАН ПО СЕРТИФИКАЦИИ

Орган по подтверждению соответствия ПК «Сертис-М», Юридический адрес: 030012, Республика Казахстан, Актобинская область, город Актобе, проспект Санкибай батыра, 26 "Н", телефон: 8(7132) 567170, 8(7132) 957524, электронная почта: info@sertis-m.com, факс: 8(7132) 567170, № аттестата KZ.O.050019 выдан 05/04/2016 года Товариществом с ограниченной ответственностью "Национальный центр аккредитации"

## ЗАЯВИТЕЛЬ

Товарищество с ограниченной ответственностью "SV Service Aktobe", БИН: 080640000779, Юридический адрес: 030004, Республика Казахстан, Актобинская область, город Актобе, с. Каргалинское, улица Абая, дом 3, кв. 17, Фактический адрес: 030000, Республика Казахстан, Актобинская область, город Актобе, улица М. Оспанова, дом 54, кв. 23, телефон: +7 7132 511 640, факс: +7 7132 511 640, электронная почта: e-mail: sv\_service77@mail.ru

## ИЗГОТОВИТЕЛЬ

SITECNA SRL в Socio Unico, Юридический адрес: Итальянская Республика, Via Giuseppe di Vittorio n. 22, 20068, Peschiera Borromeo (MI), VAT N.: IT08973090155; Фактический адрес: Итальянская Республика, Via Giuseppe di Vittorio n. 22, 20068, Peschiera Borromeo (MI), VAT N.: IT08973090155, телефон: +39 0254 75482, факс: +39 0255 303713, электронная почта: e-mail: info@sitecna.eu

## ПРОДУКЦИЯ

Оборудование пневматическое согласно приложению, 7 позиций. Описание конструкции и средств обеспечения взрывозащиты согласно приложению. Изготовлено в соответствии с UNI EN 13463-1. Серийный выпуск. Номера бланков приложений: 0053924, 0053925, 0053926, 0053927

КОД ТН ВЭД ЕАЭС 8481

## СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ

ТР ТС 010/2011 "О безопасности машин и оборудования" утвержденного решением Комиссии Таможенного союза от 18 октября 2011 г. № 823, ТР ТС 012/2011 "О безопасности оборудования для работы во взрывоопасных средах" утвержденного решением Комиссии Таможенного союза от 18 октября 2011 г. № 825, ТР ТС 032/2013 "О безопасности оборудования, работающего под избыточным давлением" принятого Решением Совета Евразийской экономической комиссии от 2 июня 2013 г. № 41

## СЕРТИФИКАТ СООТВЕТСТВИЯ ВЫДАН НА ОСНОВАНИИ

акта анализа состояния производства от 20/09/2019г. ОПС ПК "Сертис-М" №KZ.O.05.0019 от 05/04/2016г., протоколов испытаний №545C, №546C, №547C, №548C, №549C, №550C, №551C от 25/09/2019г., №567C, №568C, №569C, №570C, №571C, №572C, №573C от 26/09/2019г., №598C, №599C, №600C, №601C, №602C, №603C, №604C от 01/10/2019г. ИЦ ПК "Сертис-М" №KZ.I.05.0172 от 25/04/2016г. Схема: IC

## ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ

Инспекционный контроль один раз в год. Условия и срок хранения, срок службы указаны в сопроводительной документации изготовителя.



24.10.2019 г.

по 23.10.2024 г.

ВКЛЮЧИТЕЛЬНО

Руководитель  
(уполномоченное лицо)  
органа по сертификации

*Темкина М. Г.*  
(подпись)

Темкина М. Г.

(Ф.И.О.)

Эксперт (эксперт-аудитор)  
(эксперты(эксперты-аудиторы))

*Щербак Е. А.*  
(подпись)

Щербак Е. А.

(Ф.И.О.)



## 'CE' CONFORMITY DECLARATION - Compliant with 2014/68/EU

DICHIARAZIONE DI CONFORMITÀ 'CE' - In accordo con la Direttiva 2014/68/EU

### Compliant to Article 4 , Paragraph 3, all SITECNA® pneumatic product

Articolo 4 , Paragrafo 3 — tutti i prodotti pneumatici Sitecna®

*Filters, pressure regulators, filter regulators, back pressure regulators, 2&3 ways switching valves, spool valves, poppet valves, flow regulators, quick exhaust valves, lock-up valves, volume boosters, overload protectors, vacuum pumps, silencers, dust excluders, flowmeters, pressure gauges & tamper-proof kit, fittings.*

*Filtri, regolatori di pressione, filtri regolatori, valvole di back pressure, valvole di commutazione ad azionamento pneumatico a 2/3 vie, valvole a cassetta, valvole ad otturare, regolatori di flusso, scarichi rapidi, valvole di lock-up, volume boosters, limitatori di pressione tarabili, eiettori, silenziatori, dust excluder, flussimetri, manometri e kit anti-manomissione, raccordi.*

#### Series / Serie

**F02, F04, F06, F08, F12, F16, F24, F32, FMD4, FP, TF, R02, R04, RD6, R08, R12, R16, FR02, FR04, FRH4, FR06, FR08, FR12, FR16, BP04, SV04, S304, DP04, DP06, DP08, DP12, EP, XFUD2, XFUD4, XFUD6, XFUD8, XFUI2, XFUI6, XF802, RF804, XF806, RF808, RF812, XF816, VSR02, VSR04, VSR06, VSR08, VSR12, VRS16, LK04, LK08, V804, V808, V812, V816, SCLP, STVP, SLVP02, SLHF02, SLSC02, SLV704, SLHF04, SLSC04, SLVP06, SLHF06, SLV708, SLHF08, SLV712, SLHF12, SLVP16, SLHF16, PV, PVS, F1655, MBSN, MRS5 & KTAM, P4**

are excluded from the EC Pressure Equipment Directive, i.e. the products are not Pressure Equipment according to the specification of EU Pressure Equipment Directive 2014/68/EU and do not require special testing and conformity acceptance on the base of their design and properties . Furthermore no CE marking is required .

sono esclusi dalla 'Direttiva UE Apparecchi a Pressione 2014/68/EU', poiché, secondo le specifiche della suddetta direttiva, i prodotti citati non possono ritenersi 'Apparecchi a Pressione'. Per questo motivo- sulla base del loro design e delle loro proprietà - non richiedono test e conformità specifiche. Non è pertanto richiesto il marchio CE.

**SITECNA® products satisfy the requirements of Article 4 , Paragraph 3 of the EC Pressure Equipment Directive as , in terms of pressure and nominal size , they do not exceed specific limits\*\***

I prodotti Sitecna soddisfano le specifiche dell'Articolo 4, Paragrafo 3 della 'Direttiva EC per Apparecchi a pressione' in quanto, in termini di pressione e dimensione nominale, non superano i limiti specifici. \*\* .

**Any more we confirm product compliance with fundamental requirements of safety .**

Confermiamo quindi la conformità dei prodotti con i fondamentali requisiti di sicurezza

**\*\*( the pressure and volume of the product must not exceed 50bar litre )**

**\*\*(il rapporto tra pressione e volume del prodotto non deve superare i 50bar/litro )**

**Peschiera Borromeo, MI, Italy**

**14/12/2021**

**Quality department  
Dott.ssa Gaia Crocella**



Sitecna Srl a Socio Unico  
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P.IVA/C.FISC. 08973090155  
C.C.I.A.A. 1259759  
NR. MECC. MI253803


**MATERIAL CERTIFICATE 3.1, INSPECTION CERTIFICATE  
& CERTIFICATE OF CONFORMITY**

 Certificate No: D21/027  
 Date: 17/02/2021

Customer / Cliente

 XXXXXXXX,  
 XXXXXXXXXXXXXXXX  
 XXXXXXXXXXXXXXXX  
 XXXXXX

Part No / Item:

FR04411B00ALNB2

Description / Descrizione:

Aluminum alloy 1/2"NPT Filter regulator

Q.ty / Quantità:

10

Trace No:

21/0253

Customer Order No / Ord Cliente:

160134

Our Reference / Ns Ref:

147/21

DDT

185 - 11/02/2021

**TEST CERTIFICATE 3.1 - DIN 50049/3.1 EN10204/3.1**

Hereby we certify that the above datas are in accordance with the original certification hold by us  
 Components have been dimensionally and surface checked without objection  
 Con la presente certifichiamo che i dati sotto riportati sono in accordo con le certificazioni originali da noi possedute.  
 Superfici e dimensioni dei componenti sono state controllate senza riscontrare problemi

| ITEM                           | MATERIAL               | CAST N°     | TRACE<br>CERTIFICATE | Mechanical Test                        |                                           |                                         |                                |         |         |         |         |         |         |         |         |
|--------------------------------|------------------------|-------------|----------------------|----------------------------------------|-------------------------------------------|-----------------------------------------|--------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
|                                |                        |             |                      | HARDNESS<br>TEST<br>(HRB)<br>Min - max | TENSILE<br>STRENGHT<br>(MPa)<br>Min - max | YIELD<br>STRENGHT<br>(MPa)<br>Min - max | ELONGATION<br>(%)<br>Min - max |         |         |         |         |         |         |         |         |
|                                |                        |             |                      |                                        |                                           |                                         |                                |         |         |         |         |         |         |         |         |
| Diphragm                       | NBR                    |             |                      |                                        |                                           |                                         |                                |         |         |         |         |         |         |         |         |
| Seals                          | NBR                    |             |                      |                                        |                                           |                                         |                                |         |         |         |         |         |         |         |         |
| Bonnet                         | Aluminum Alloy YL104   | 11-19       | 135/M/20             | NR                                     | NR                                        | NR                                      | NR                             |         |         |         |         |         |         |         |         |
| Body                           | EN AW 6082 T6          | 5399/Z/6041 | 08/M/21              | 95                                     | 310-NR                                    | 260-NR                                  | 8-NR                           |         |         |         |         |         |         |         |         |
| Bowl                           | UNI 3051 GALSI 9 Mn Mg | Y4DA4xcd    | 174/M/20             | NR                                     | NR                                        | NR                                      | NR                             |         |         |         |         |         |         |         |         |
| Chemical analysis              |                        |             |                      |                                        |                                           |                                         |                                |         |         |         |         |         |         |         |         |
| TRACE CERTIFICATE /<br>CAST N° |                        | Al<br>%     | Mn<br>%              | Si<br>%                                | Cr<br>%                                   | Ni<br>%                                 | Ca<br>%                        | Zn<br>% | Sb<br>% | Sn<br>% | Mg<br>% | Cu<br>% | Fe<br>% | Ti<br>% | Pb<br>% |
| 135/M/20                       | Min                    | —           | 0.20                 | 8.00                                   | ---                                       | ---                                     | ---                            | ---     | ---     | ---     | 0.30    | ---     | 0.50    | ---     | ---     |
|                                | Rilevata               | resto       | 0.31                 | 8.95                                   | 0.0435                                    | <0.001                                  | 0.0038                         | 0.161   | ---     | <0.001  | 0.49    | 0.147   | 0.606   | 0.0196  | 0.0119  |
|                                | Max                    | —           | 0.50                 | 10.50                                  | ---                                       | ≤ 0.10                                  | ---                            | ≤ 0.30  | ---     | ≤ 0.01  | 0.50    | ≤ 0.30  | 0.80    | ---     | ≤ 0.05  |
| 08/M/21                        | Min                    | —           | 0.4                  | 0.70                                   | ---                                       | ---                                     | ---                            | ---     | ---     | ---     | 0.6     | ---     | ---     | ---     | ---     |
|                                | Rilevata               | resto       | ---                  | ---                                    | ---                                       | ---                                     | ---                            | ---     | ---     | ---     | ---     | ---     | ---     | ---     | ---     |
|                                | Max                    | —           | 1.0                  | 1.30                                   | 0.25                                      | ---                                     | ---                            | 0.20    | ---     | ---     | 1.2     | ---     | 0.5     | 0.1     | ---     |
| 174/M/20                       | Min                    | —           | 0.4000               | 8.5000                                 | ---                                       | ---                                     | ---                            | ---     | ---     | ---     | 0.3000  | ---     | ---     | ---     | ---     |
|                                | Rilevata               | resto       | 0.4745               | 8.8282                                 | 0.0077                                    | 0.0059                                  | 0.0009                         | 0.0237  | <0,0001 | 0.0011  | 0.4101  | 0.0394  | 0.3278  | 0.1145  | 0.00210 |
|                                | Max                    | —           | 0.6000               | 9.5000                                 | 0.0500                                    | 0.1000                                  | ---                            | 0.0500  | ---     | ---     | 0.4500  | 0.0500  | 0.5000  | 0.1500  | 0.0500  |

**INSPECTION CERTIFICATE – conform to EN10204**

We hereby certify that the equipments has been satisfactorily tested as stated  
 Con la presente certifichiamo che l'apparecchiatura è stata collaudata e soddisfa le  
 condizioni di prova qui riportate

| MEDIA  | RANGE      | SEAT LEAKAGE<br>TEST | FUNCTIONAL<br>TEST | DIMENSION &<br>CONNECTIONS CHECK   |
|--------|------------|----------------------|--------------------|------------------------------------|
| Fluido | Regolaz.   | Prova di tenuta      | Test funzionamento | Controllo dimensioni e connessioni |
| Air    | 0.4/10 bar | positive             | positive           | positive                           |

**CERTIFICATE OF COMPLIANCE WITH THE ORDER (EN 10204 - 2.1)**

We hereby confirm that the devices supplied you as per your above  
 mentioned order are in compliance with the catalog data.

Con la presente confermiamo la conformità dei materiali forniti a fronte del Vostro ordine  
 sopraccitato alle caratteristiche riportate a catalogo.

**DECLARATION/CERTIFICATION**

|      |                                |
|------|--------------------------------|
| ATEX | TÜV 557/Ex-Ab 3213/20          |
| EAC  | KZ. 1510019.22.01.00279        |
| SIL3 | TÜV 19-SIL-0010513-05-TIC      |
| IP66 | ICEPI 6AMB12348C               |
| ISO  | N. 579 – Revisione 7           |
| PED  | 'CE' CONFORMITY<br>DECLARATION |



Quality Dept

 Sitecna Srl a socio unico  
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 P.IVA/C.FISC. 08973090155  
 C.C.I.A.A. 1259759  
 NR MECC. MI253803



# C E R T I F I C A T E

**Certificate no. 19-SIL-0010513-05-TIC**

WE HEREDY CERTIFY THAT

**Product description** FILTER REGULATORS / REGULATORS

**Models** SERIES FR / R

**Manufacturer** **SITECNA S.r.l. a socio unico**  
**Via Giuseppe Di Vittorio 22 – 20068 Peschiera Borromeo MI**

IS IN COMPLIANCE WITH THE REQUIREMENTS OF THE STANDARDS

**IEC 61508 Parts 1–7:2010**

AS RESULT OF THE ASSESSMENT ACCORDING TO THE PROVISION  
 SET OUT IN THE ABOVE-MENTIONED STANDARDS

**Summary Report no. RC-1119-SIL-TIC-PC-0010513-19-10**

**Expiry date** 26.11.2022

**Note**

This certificate is issued upon the request of the manufacturer as voluntary certification; it does not include the production surveillance.

This certificate does not allow the manufacturer to use the safety mark of TÜV INTERCERT.



Reggio Emilia, 27.11.2019

  
 Dip. Ing. Feridoon Sergizzarea

TÜV INTERCERT Certification Body

Page 1 of 2

TÜV InterCert S.r.l. - Group of TÜV Saarland - Via Cecati 1/1 - 42123 Reggio Emilia ITALY  
 www.tuvintercert.it

BT-CTSIL/C21A



Istituto Certificazione Europea Prodotti Industriali S.p.A.

## CERTIFICATO DI PROVA

TEST CERTIFICATE

16AMB12348C

■ Nome e indirizzo del detentore del certificato  
■ Name and address of the holder of the certificate

**SITECNA S.r.l. A SOCIO UNICO**  
**Via G. Di Vittorio, 22**  
**20068 Peschiera Borromeo (MI) - ITALY**

■ Nome e indirizzo del costruttore  
■ Name and address of the manufacturer

**SITECNA S.r.l. A SOCIO UNICO**  
**Via G. Di Vittorio, 22**  
**20068 Peschiera Borromeo (MI) - ITALY**

■ Genere prodotto  
■ Product designation

**Filter regulator – Filter - Regulator**

■ Serie / Tipo  
■ Series / type

**FR – F – R**

■ Norma(e) di riferimento  
■ Reference standard(s)

**UNI CEI EN ISO/IEC 17025:2005;**  
**CEI EN 60529:1997 + A1:2000 + A2:2014**

■ Risultato delle verifiche  
■ Verification results

I campioni sono stati testati in accordo alla norma CEI EN 60529:1997 + A1:2000 + A2:2014 e soddisfano i requisiti del grado IP66.  
*The samples have been tested in accordance with the standard CEI EN 60529: 1997 + A1:2000 + A2:2014 and meets the requirements of IP66 degree.*

I risultati, le condizioni e le modalità di prova sono contenuti nel rapporto di prova 16AMB12348 r00.  
*The results, conditions and test methods are included in 16AMB12348 r00 test report.*

■ Condizioni  
■ Conditions

Questo certificato non autorizza l'apposizione di alcun tipo di marcatura CE. È vietata la parziale riproduzione del certificato senza l'approvazione di ICEPI S.p.A.  
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Variazioni delle norme di riferimento e/o eventuali modifiche rispetto al campione testato, fanno decadere la validità del presente certificato di prova.  
*The validity of the certificate depends on the change of the reference standard and on the modifications regarding the sample tested.*

Revisione r00 / Rev r00  
Piacenza, 04.10.2016

Il Sostituto Responsabile del  
laboratorio di prova  
*Test Laboratory Deputy Manager*  
  
per. ind. Andrea Braghieri

Il Direttore Tecnico  
*The Technical Manager*  
  
Dott. Ing. Andrea Guido Esposito

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## Corrosion resistance chart & temperature informations

Tabelle di compatibilità materiali e dati sulle temperature

**The information given in the following tables , is a general guide to the chemical resistance of the materials used by Sitecna® .**

Le seguenti tabelle danno delle informazioni generali relative alla resistenza chimica dei materiali utilizzati da Sitecna® .

**It is worth mentioning that many factors ie temperature, concentration, pressure and degree of contamination etc. may vary and so effect certain ratings in the table.**

and degree of contamination etc. may vary and so effect certain ratings in the table.

E' corretto precisare che le informazioni possono variare in funzione di molti fattori come la temperatura, la concentrazione, ed il grado di contaminazione.

**We therefore advise that the ratings given be used as a guide only for your choice of materials and not as the absolute answer .**

Raccomandiamo pertanto di utilizzare le seguenti tabelle come una guida per la selezione di materiali idonei alla propria applicazione, senza valutare i dati forniti come valori assoluti .

### Approximate service temperature range for used basic polymer types :

Temperature indicative di lavoro per i polimeri base utilizzati :

**Nitrile (General Service) -34°C to 121°C (-30°F to 250°F)\***

**Ethylene Propylene (EPDM) -57°C to 121°C (-70°F to 250°F)\***

**Fluorocarbon -26°C to 205°C (-15°F to 400°F)\***

**Hifluor (FKM) -26°C to 205°C (-15°F to 400°F)\***

**Polyurethane -40°C to 82°C (-40°F to 180°F)\***

**Fluorosilicone -73°C to 177°C (-100°F to 350°F)\***

**Silicone -54°C to 232°C (-65°F to 450°F)\***

**A = Excell ent / Eccellente**

**B =Good/Buona**

**C=Fair,probably unsuitable /Scarsa,probabilmente non idoneo**

**D= Not recommended /Non raccomandato**

**- = No informations / Nessuna informazione**

| Media                       | 316 SS | Aluminium | FKM | EPDM | Media                     | 316 SS | Aluminium | FKM | EPDM |
|-----------------------------|--------|-----------|-----|------|---------------------------|--------|-----------|-----|------|
| Acetaldehyde                | A      | A         | A   | A    | Copper chloride           | D      | D         | A   | A    |
| Acetate solvents            | A      | A         |     |      | Copper nitrate            | D      | A         | A   | C    |
| Acetic acid 10%             | A      | A         | A   | A    | Copper sulphate           | D      | A         | A   | A    |
| Acetic acid 60%             | A      | A         |     |      | Creosote hot              | B      | -         | A   | C    |
| Acetic acid glacial         | A      | A         | A   | A    | Cresylic acid             | D      | A         | A   | C    |
| Acetic acid vapours         | A      | C         |     |      | Cyanide solutions         | -      | A         | A   | -    |
| Acetic anhydride            | A      | A         | A   | C/B  | Cyclohexane               | A      | A         | A   | C    |
| Acetone                     | A      | A         | C/B | A    | Detergents sythetic       | A      | A         | A   | A    |
| Acetylene                   | A      | A         | A   | A    | Diacetone alcohol         | A      | A         | A   | A    |
| Acrylonitrile               | A      | A         |     |      | Dichlorobenzene           | -      | B         |     |      |
| Adipic acid 15 25%          | A      | A         | A   | C/B  | Dichloroethylene          | -      | A         |     |      |
| Alcohols                    | A      | B         |     |      | Diesel oil                | A      | A         |     |      |
| Aliphatic esters            | A      | C         |     |      | Diethylamine              | A      | A         |     |      |
| Aliphatic hydrocarbons      | A      | A         |     |      | Diethylene glycol         | -      | A         |     |      |
| Alkyl chlorides pure        | B      | C         | A   | D    | Esters                    | -      | A         |     |      |
| Alum                        | A      | B         | A   | A    | Ethers                    | B      | A         | A   | C    |
| Aluminium chloride          | B      | D         | A   | A    | Ethyl acetate             | C      | A         | B   | B    |
| Aluminium sulphate          | A      | B         | A   | A    | Ethyl alcohol             | B      | A         | A   | A    |
| Amines                      | A      | A         |     |      | Ethyl chloride dry        | B      | A         | A   | C    |
| Amonia gas                  | A      | B         | C   | A    | Ethyl chloride wet        | D      | B         | A   | C    |
| Ammonium bicarbonate        | A      | B         | A   | A    | Ethylene glycol           | B      | A         | A   | A    |
| Ammonium carbonate          | A      | B         | A   | A    | Fatty acids               | D      | A         | A   | C    |
| Ammonium chloride           | B      | B         | A   | A    | Ferric chloride           | D      | D         | A   | A    |
| Ammonium hydroxide          | A      | A         | C/B | A    | Ferric nitrate            | D      | A         | A   | A    |
| Ammonium sulphate           | A      | B         | A   | A    | Ferric sulphate           | D      | A         | A   | A    |
| Amyl acetate                | A      | A         | D   | A    | Ferrous sulphate          | D      | B         | A   | A    |
| Amyl chloride               | A      | B         | A   | D    | Fluorinated hydrocarbons  | B      | B         |     |      |
| Aqua regia                  | D      | D         | C   | C/D  | Fluorine dry gas          | -      | A         | B   | -    |
| Aromatic hydrocarbons       | A      | A         |     |      | Fluorine wet gas          | B      | D         | B   | D    |
| Barium chloride             | A      | C         | A   | A    | Fluorosilicic acid        | D      | B         | A   | B    |
| Barium hydroxide            | A      | A         | A   | A    | Formaldehyde 40%          | C      | B         | A   | B    |
| Barium nitrate              | A      | A         | A   | A    | Formic acid 50%           | D      | A         | A   | A    |
| Benzene                     | A      | A         | A   | D    | Fruit juices              | D      | A         | -   | -    |
| Benzoic acid                | A      | B         | A   | D    | Fuel oil                  | B      | A         | A   | D    |
| Boric acid                  | B      | C         | A   | A    | Furfural                  | B      | A         | A   | B    |
| Brines(seawater)            | C      | B         | A   | C    | Gallic acid 25%           | D      | A         | A   | B    |
| Bromine dry                 | D      | B         | A   | C    | Gelatine                  | D      | A         | A   | A    |
| Bromine wet                 | D      | D         | A   | C    | Glucose                   | B      | A         | A   | A    |
| Butadiene                   | A      | A         | A   | C    | Glycerine                 | B      | A         | A   | A    |
| Butane                      | A      | A         | A   | C    | Glycols                   | B      | A         | A   | A    |
| Butyl acetate               | A      | A         | A   | C    | Hydrobromic acid          | D      | D         | A   | A    |
| Butyl alcohol               | A      | A         | A   | C    | Hydrochloric acid 10% hot | D      | D         | A   | D    |
| Butyric acid                | A      | A         | A   | C    | Hydrochloric acid 10%     | D      | D         | A   | B    |
| Calcium bisulphate          | A      | C         | A   | A    | Hydrocyanic acid          | C      | A         | A   | A    |
| Calcium chloride            | B      | B         | A   | A    | Hydrofluoric acid 40%     | D      | D         | A   | D    |
| Calcium hyroxide            | A      | A         | A   | A    | Hydrogen chloride dry     | D      | A         | A   | -    |
| Calcium hypochlorite        | B      | D         | A   | A    | Hydrogen chloride wet     | D      | D         | A   | -    |
| Calcium nitrate             | A      | -         | A   | A    | Hydrogen peroxide         | D      | B         | A   | A    |
| Carbolic acid               | A      | B         | A   | C    | Hydrogen sulphide dry     | B      | A         | A   | A    |
| Carbon disulphide           | A      | A         | A   | C    | Hydrogen sulphide wet     | D      | A         | A   | A    |
| Carbonic acid               | A      | A         | A   | A    | Hypochlorites             | D      | D         | -   | -    |
| Carbon tetrachloride dry    | A      | B         | A   | D    | Hypochlorous acid         | -      | D         | A   | B    |
| Castor oil                  | A      | A         | A   | C    | Iodine wet                | D      | D         | A   | B    |
| Chloric acid                | D      | D         | A   | A    | Ketones                   | A      | A         | -   | -    |
| Chlorinated hydrocarbons    | B      | B         | -   | -    | Lactic acid 10%           | D      | A         | A   | C    |
| Chlorinated water saturated | C      | C         | -   | -    | Lead acetate              | D      | A         | A   | A    |
| Chlorine dry gas            | B      | B         | A   | C    | Lead nitrate 50%          | D      | A         | A   | A    |
| Chlorine wet gas            | D      | D         | -   | -    | Lime                      | -      | A         | A   | A    |
| Chlorine dioxide            | D      | -         | A   | C    | Linseed oil               | A      | A         | A   | C    |
| Chloroacetic acid           | D      | D         | A   | C    | Litium bromide            | -      | B         | A   | A    |
| Chlorobenzene dry           | A      | A         | A   | C    | Litium chloride           | -      | B         | A   | A    |
| Chloroform dry              | A      | D         | A   | D    | Lubricating oils          | A      | A         | A   | D    |
| Chlorosulphonic acid        | C      | B         | A   | D    | Magnesium carbonate       | D      | A         | A   | A    |
| Chrome acid dilute          | A      | B         | -   | -    | Magnesium chloride        | D      | B         | A   | A    |
| Chromic acid 50%            | C      | D         | A   | D    | Magnesium hydroxide       | B      | A         | A   | A    |
| Citric acid                 | A      | C         | A   | A    | Magnesium nitrate         | D      | A         | A   | A    |

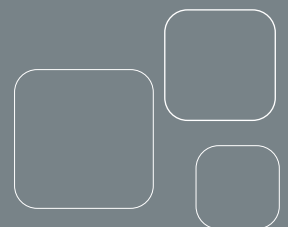


| Media                          | 316 SS | Aluminium | FKM | EPDM | Media                   | 316 SS | Aluminium | FKM | EPDM |
|--------------------------------|--------|-----------|-----|------|-------------------------|--------|-----------|-----|------|
| Magnesium sulphate             | A      | B         | A   | A    | Sea water               | B      | A         | A   | A    |
| Maleic acid                    | B      | C         | A   | D    | Siliconers              | A      | A         | -   | -    |
| Malic acid                     | A      | A         | A   | B    | Silver bromide          | D      | D         | A   | A    |
| Mercuric chloride              | C      | D         | A   | A    | Silver chloride         | D      | D         | A   | A    |
| Mercuric cyanide 5%            | A      | D         | A   | A    | Silver nitrate          | B      | D         | A   | A    |
| Mercuric iodine                | -      | D         | A   | A    | Soaps                   | A      | C         | A   | A    |
| Mercuric nitrate 5%            | A      | D         | A   | A    | Sodium acetate          | A      | B         | A   | A    |
| Mercurous nitrate 5%           | A      | D         | A   | A    | Sodium aluminate        | B      | D         | A   | A    |
| Mercury                        | A      | D         | A   | A    | Sodium bicarbonate      | A      | A         | A   | A    |
| Methyl alcohol                 | A      | B         | A   | A    | Sodium bisulphate       | B      | C         | A   | A    |
| Methyl chloride dry            | B      | D         | A   | C    | Sodium bisulphite       | A      | C         | A   | A    |
| Methyl chloride wet            | A      | C         | A   | C    | Sodium borate hot       | A      | C         | A   | A    |
| Methyl ethyl ketone            | A      | A         | A/B | A    | Sodium bromide          | B      | B         | A   | A    |
| Methyl isobutyl ketone         | A      | A         | A   | C    | Sodium carbonate        | A      | D         | A   | A    |
| Methyl methacrylate            | A      | -         | A   | D    | Sodium chloride         | B      | B         | A   | A    |
| Milk                           | A      | A         | A   | A    | Sodium chromate         | A      | A         | A   | A    |
| Mixed acids nitric & sulphuric | B      | B         | A   | A    | Sodium cyanide          | A      | B         | A   | A    |
| Molasses                       | A      | B         | -   | -    | Sodium dichromate       | B      | A         | -   | -    |
| Naphtha                        | A      | A         | A   | D    | Sodium hydroxide 30%    | A      | D         | A   | -    |
| Naphthalene                    | B      | A         | A   | D    | Sodium hypochlorite     | C      | C         | A   | A    |
| Nickel chloride                | C      | D         | A   | A    | Sodium metaphosphate    | A      | A         | A   | A    |
| Nickel nitrate 5 10%           | A      | D         | A   | A    | Sodium metasilicate     | A      | A         | A   | A    |
| Nickel sulphate                | A      | D         | A   | A    | Sodium nitrate          | A      | A         | A   | A    |
| Nitric acid 25%                | A      | D         | A   | B    | Sodium perborate        | A      | A         | A   | A    |
| Nitric acid 70%                | A      | D         | B   | D    | Sodium peroxide 10%     | A      | D         | A   | A    |
| Nitric acid 100%               | A      | A         | B   | D    | Sodium phosph. tribasic | B      | D         | A   | A    |
| Nitrobenzene                   | A      | A         | A   | A    | Sodium sulphate         | A      | B         | A   | A    |
| Nonylphenol                    | A      | -         | -   | -    | Sodium sulphide         | B      | D         | A   | A    |
| Oils essential                 | A      | B         | -   | -    | Sodium sulphite         | A      | B         | A   | A    |
| Oils mineral                   | A      | A         | -   | -    | Sodium thiosulphate     | A      | A         | A   | A    |
| Oils vegetable and animal      | A      | A         | -   | -    | Stannic chloride        | B      | D         | A   | A    |
| Oleic acid                     | B      | A         | A   | D    | Stannous chloride       | B      | D         | A   | A    |
| Oleum                          | B      | B         | A   | D    | Starch                  | A      | A         | -   | -    |
| Oxalic acid 10%                | B      | C         | A   | A    | Steam 0/400°F           | A      | A         | A   | A    |
| Oxalic acid 30%                | B      | D         | A   | A    | Stearic acid            | A      | A         | A   | B    |
| Oxalic acid 50% boiling        | C      | D         | A   | A    | Sugar liquors           | A      | A         | -   | -    |
| Palmitic acid                  | A      | B         | A   | B    | Sulphonic acids         | B      | C         | A   | A    |
| Paraffins                      | A      | A         | A   | D    | Sulphur fused           | A      | A         | -   | -    |
| Petrol                         | A      | A         | A   | D    | Sulphur dioxide dry     | A      | A         | A   | A    |
| Phenol                         | A      | B         | A   | D    | Sulphur dioxide wet     | B      | B         | A   | A    |
| Phosphoric acid 10%            | A      | D         | A   | -    | Sulphuric acid 5%       | B      | C         | A   | A    |
| Phosphoric acid 30%            | A      | D         | A   | -    | Sulphuric acid 5 20%    | C      | D         | A   | A    |
| Phosphoric acid 50%            | A      | D         | A   | -    | Sulphuric acid 20 80%   | D      | D         | A   | C    |
| Phosphoric acid 10% boiling    | B      | D         | -   | -    | Sulphuric acid 80%      | B      | C         | A   | D    |
| Phosphorus trichloride dry     | B      | C         | A   | A    | Sulphuric acid fuming   | B      | B         | B   | D    |
| Phthalic acid                  | A      | A         | A   | A    | Sulphurous acid         | B      | C         | A   | B    |
| Picric acid                    | A      | B         | A   | A    | Sulphur trioxide dry    | B      | A         | -   | -    |
| Potassium bromide              | A      | B         | A   | A    | Tannic acid             | B      | C         | A   | A    |
| Potassium carbonate            | A      | B         | A   | A    | Tar hot                 | A      | A         | A   | D    |
| Potassium chlorate             | B      | A         | A   | A    | Tartaric acid           | A      | B         | A   | B    |
| Potassium chloride             | B      | B         | A   | A    | Tetrahydrofuran         | B      | -         | -   | -    |
| Potassium chromate             | A      | A         | A   | A    | Toluene                 | A      | A         | B   | D    |
| Potassium cyanide              | A      | C         | A   | A    | Trichlorethylene dry    | B      | A         | A   | D    |
| Potassium dichromate           | A      | A         | A   | A    | Triethanolamine         | A      | A         | A   | B    |
| Potassium ferricyanide 25%     | A      | A         | A   | A    | Turpentine              | A      | A         | A   | D    |
| Potassium hydroxide 10%        | A      | D         | A   | A    | Urea                    | A      | B         | A   | A    |
| Potassium hydroxide 50%        | B      | D         | A   | A    | Varnish hot             | A      | A         | A   | D    |
| Potassium nitrate              | A      | A         | A   | A    | Vinagar                 | A      | B         | A   | B    |
| Potassium permanganate dilute  | A      | A         | A   | A    | Vinyl chloride          | B      | A         | A   | D    |
| Potassium silicate             | A      | A         | A   | -    | Water distilled         | A      | A         | A   | A    |
| Potassium sulphate             | A      | A         | A   | A    | Water fresh             | A      | B         | A   | A    |
| Propane                        | A      | A         | A   | D    | Whiskey                 | A      | B         | A   | A    |
| Propyl acetate                 | A      | A         | A   | B    | Wine                    | A      | B         | A   | A    |
| Propyl alcohol                 | A      | A         | A   | A    | Xylene                  | A      | A         | A   | D    |
| Pyridine                       | A      | B         | B   | B    | Zinc chloride           | B      | C         | A   | A    |
| Pyrogalllic acid               | A      | B         | A   | D    | Zinc nitrate            | B      | B         | A   | A    |
| Salicyclic acid                | A      | B         | A   | A    | Zinc sulphate           | A      | C         | A   | A    |



Sitecna® is also the sole Italian distributor of the following brands:

- PMV
- Sigma HLR
- Alkon
- Condor Technology
- Imperial
- Waverley brownall
- Uni-lok
- Seetru
- Glass Specialist





Manufacturer of digital positioners, analog positioners and switchboxes



Manufacturer of fittings, flow regulators & electro-pneumatic valves



Manufacturer of atmospheric or enclosed discharge safety relief valves, change-over valves, liquid level gauges



Manufacturer of controller units, manual relays, pressure sensors, hydraulic & quick exhaust valves



Manufacturer of instrumentation fittings, ball, needle, check, relief valves



Manufacturer of instrumentation fittings, ball, needle, check, diaphragm, bellows, manifold valves



Manufacturer of instrumentation heaters & thermostats for hazardous locations



Manufacturer of plastic tubing, valves & instrumentation solutions



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