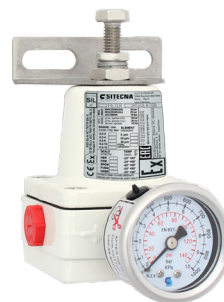


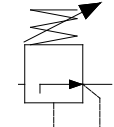
Copper free aluminum alloy 1/4"NPT pressure regulator – R Serie

Regolatore di pressione da 1/4"NPT in lega di alluminio esente rame – serie R

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66/ SIL 3 - IEC 61508 



Relieving



Non Relieving

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL 3 - IEC 61508 

Media / Fluido	Air, inert gases, sweet and sour gases, clean water
Port thread / Connessioni	1/4" NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Max inlet pressure Pressione massima di ingresso	25bar
Relieving / Scarico sovrappressioni	standard
Flow Rate (@10 bar inlet, 6bar regulated, delta P=1bar)/ Portata	940dm3/min Cv=0.9
Working Temperature Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

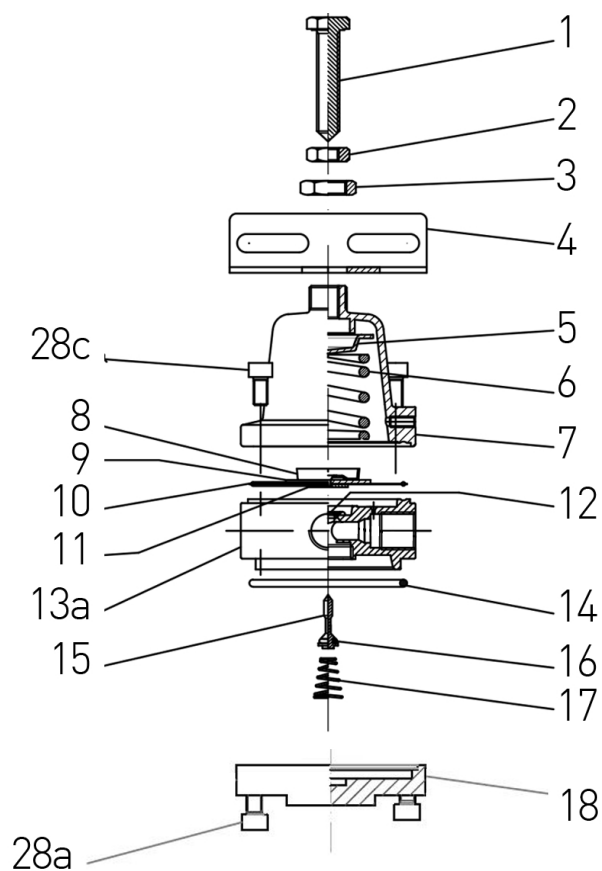
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316. Compact small package size /
 Permette una regolazione accurata per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI304/316 - Dimensioni di ingombro ridotte

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, end plate in tropicalized aluminum alloy	Corpo, tazza superiore, piastra inferiore in lega di alluminio tropicalizzata
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 e guarnizioni in elastomero

Product exploded view

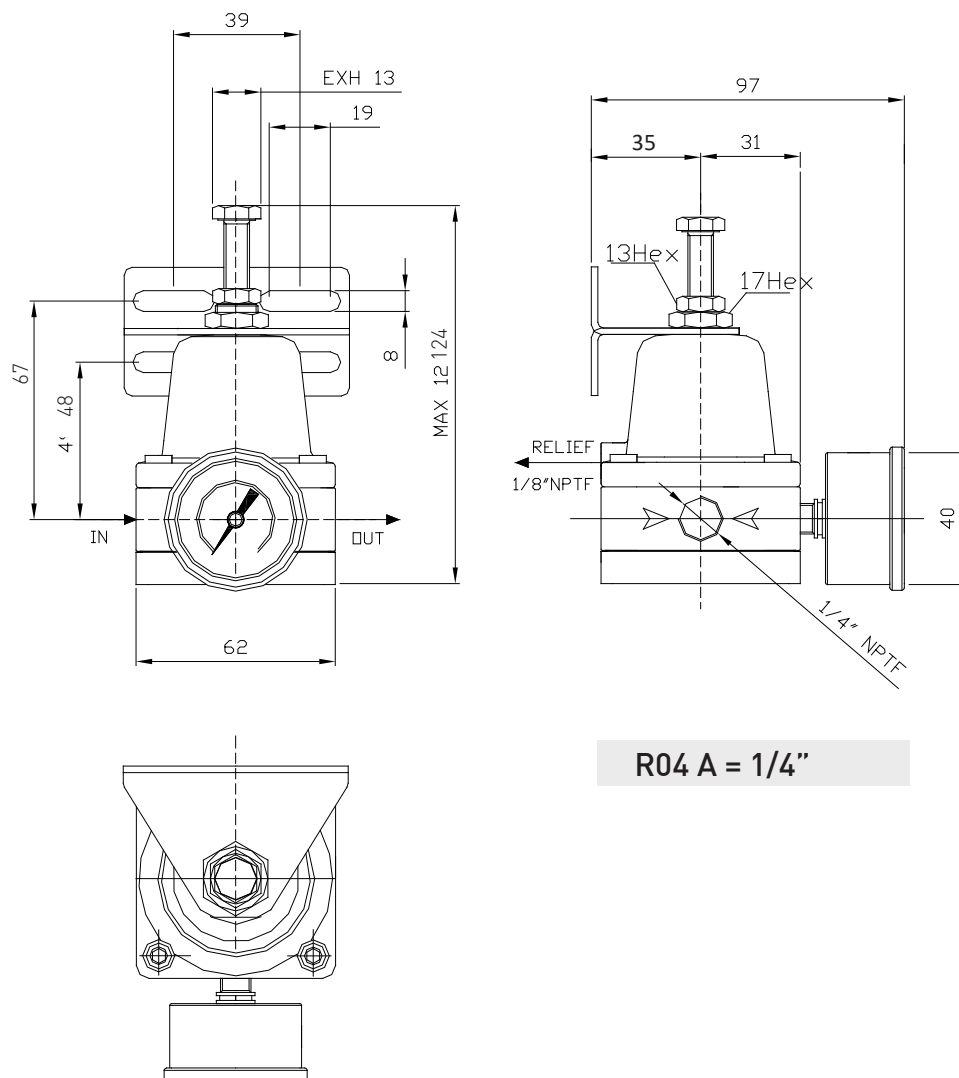
Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	DADO STAFFA
4a	1	BRACKET	STAFFA
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET	TAZZA SUPERIORE
8	1	LOWER SPRING GUIDE	GUIDA INFERIORE MOLLA
9	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
10	1	DIAPHRAGM	DIAFRAMMA
11	1	VALVE SEAT	SEDE VALVOLA
12	1	PTFE RING	ANELLO PTFE
13a	1	BODY	CORPO
14	1	O-RING	O-RING
15	1	VALVE STEM	CORPO VALVOLA
16	1	O'RING VALVE STEM	O'RING CORPO VALVOLA
17	1	VALVE SPRING	MOLLA VALVOLA
18	1	REGULATOR BOTTOM	PIATTELLO
28a	4	SCREW M5X10	VITI M5X10
28c	4	SCREW M5X10	VITI M5X10

Overall dimension

Dimensioni di ingombro



R04 A = 1/4"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-R04-0-* -AL-** [1/4"]
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket / Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

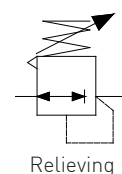
* Refers to relieving options: 0→Relieving 5 → Non Relieving

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

Copper free aluminum alloy 3/8", 1/2"NPT pressure regulator – R serie

Regolatore di pressione da 3/8" e 1/2"NPT in lega di alluminio esente rame – serie R

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL 3 - IEC 



Non Relieving

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL 3 - IEC 61508 

Media / Fluido	Air, inert gases, sweet and sour gases, clean water
Port thread / Conessioni	3/8"-1/2"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Max inlet pressure Pressione massima di ingresso	25bar
Relieving / Scarico sovrappressioni	standard
Flow Rate (@10 bar inlet, 6bar regulated, delta P=1bar)/ Portata	4500dm3/min Cv=4.5
Working Temperature Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

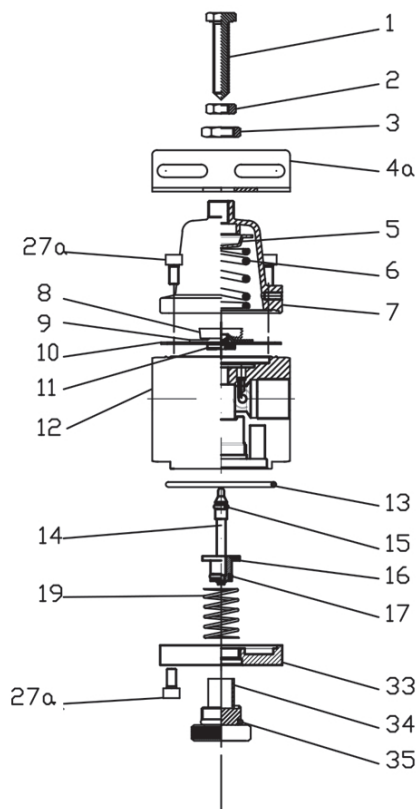
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316. Compact small package size – light weight / Permette una regolazione accurata per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI304/316 - Dimensioni di ingombro ridotte

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, end plate in tropicalized aluminum alloy	Corpo, tazza superiore, piastra inferiore in lega di alluminio tropicalizzata
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 e guarnizioni in elastomero

Product exploded view

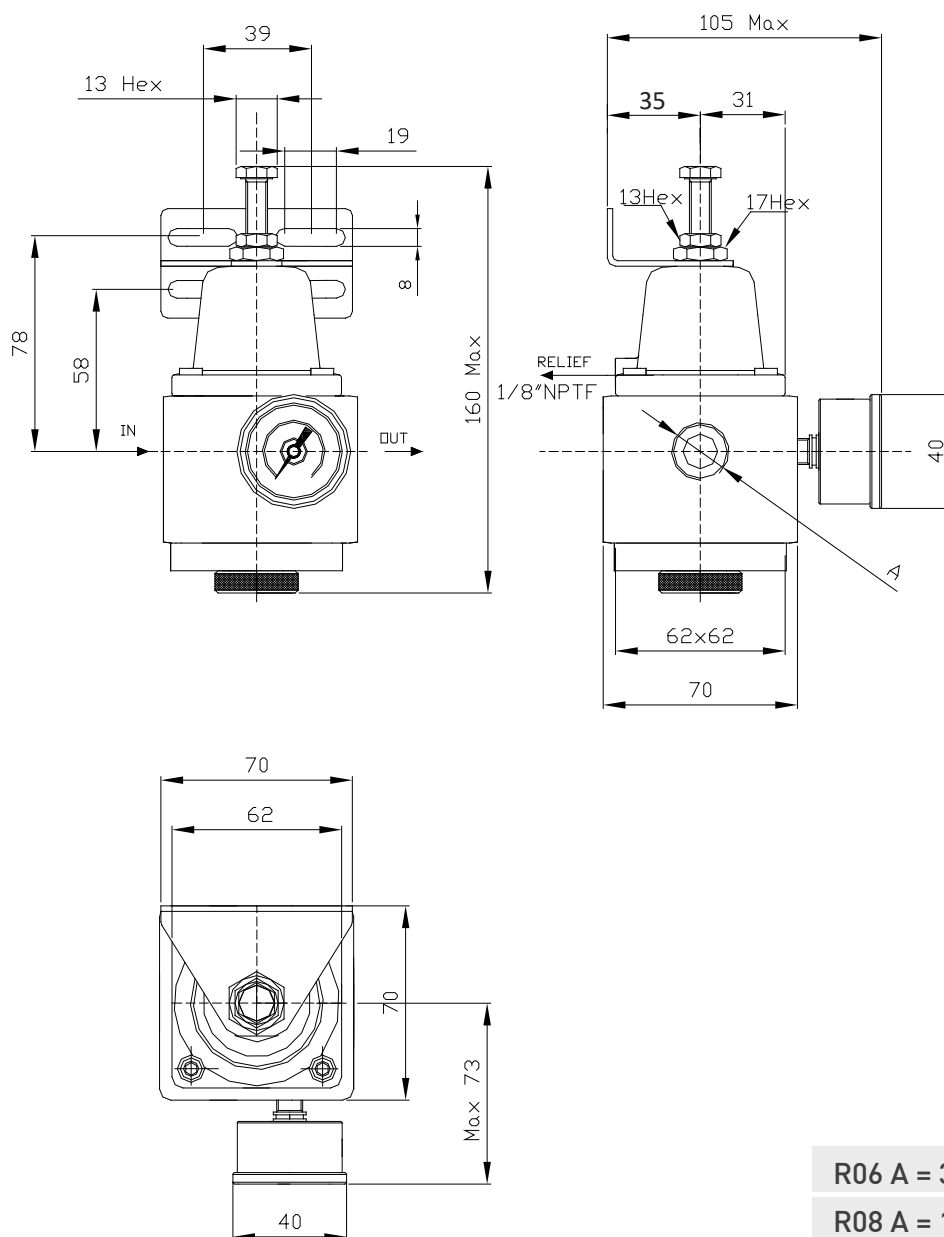
Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	DADO STAFFA
4a	1	BRACKET FR/R	STAFFA
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET	TAZZA SUPERIORE
8	1	LOWER SPRING GUIDE	GUIDA INFERIORE MOLLA
9	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
10	1	DIAPHRAGM	DIAFRAMMA
11	1	VALVE SEAT	SEDE VALVOLA
12	1	BODY	CORPO
13	1	O-RING	O-RING
14	1	VALVE STEM	CORPO VALVOLA
15	1	O'RING VALVE STEM	O'RING CORPO VALVOLA
16	1	VALVE	VALVOLA
17	1	O'RING VALVE	O'RING VALVE
19	1	VALVE SPRING	MOLLA VALVOLA
27a	8	SCREW M5X10	VITI M5X10
33	1	REGULATOR BOTTOM	PIATTELLO
34	1	REGULATOR VALVE SEAT	SEDE VALVOLA
35	1	O-RING	O-RING

Overall dimension

Dimensioni di ingombro



R06 A = 3/8"

R08 A = 1/2"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-R08-0-* -AL-**
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket /Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to relieving options: 0→Relieving 5 → Non Relieving

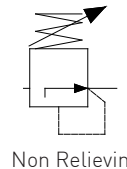
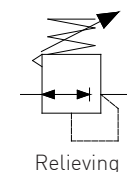
** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

Copper free aluminum alloy 3/4", 1"NPT pressure regulator – R serie

Regolatore di pressione da 3/4" - 1"NPT in lega di alluminio esente rame – serie R

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIC T85°C/T100°C Db X
-  &  approved / IP66/ SIL 3 - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb x
II 2D Ex h IIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL 3 - IEC 61508 



Media / Fluido	Air, inert gases, sweet and sour gases, clean water
Port thread / Connessioni	3/4" - 1" NPT
Gauge Connection Connessione manometro	1/4"NPT (1/8"NPT option)
Max inlet pressure / Pressione massima di ingresso	25bar
Relieving/ Scarico sovrappressioni	Standard
Flow rate (@10bar inlet, 6bar regulated, delta P=1bar) / Portata	11500dm3/min Cv=11.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

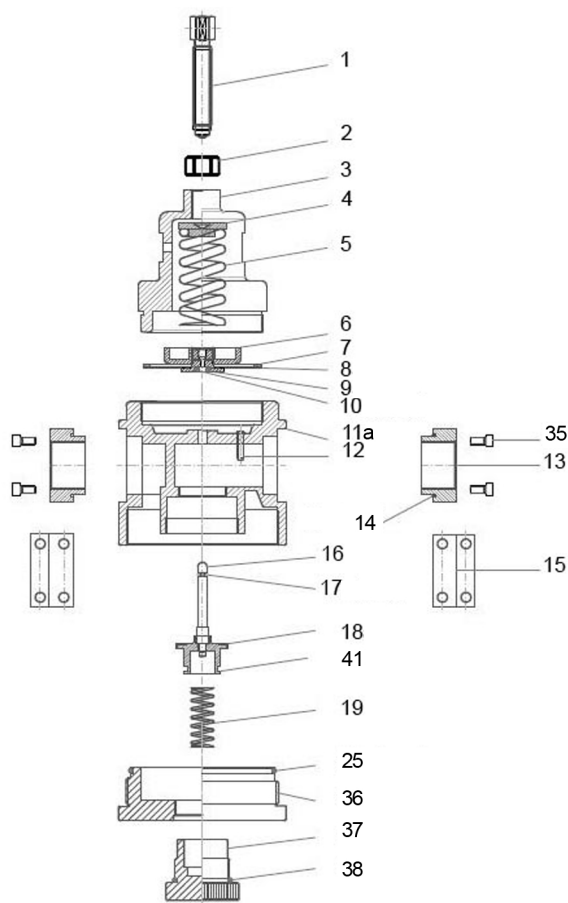
***Special version in HNBR (WT -60°C + 90°C)**

It provides excellent regulation and for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316 / Permette un'accurata regolazione per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI316

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, end plate in tropicalized aluminum alloy	Corpo, tazza superiore, piastra inferiore in lega di alluminio tropicalizzata
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 e guarnizioni in elastomero

Product exploded view

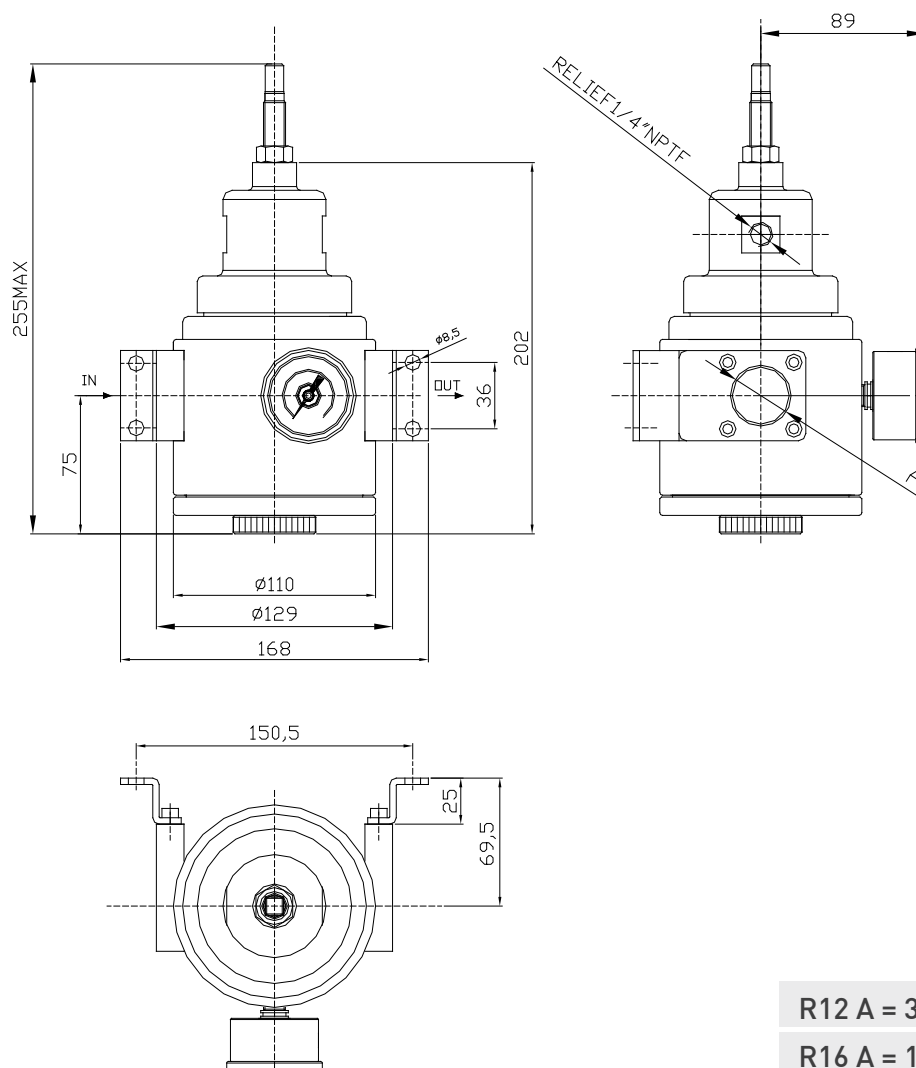
Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BONNET	TAZZA SUPERIORE
4	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
5	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
6	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
7	1	SLIP RING	SLIP RING
8	1	DIAPHRAGM	SEDE VALVOLA
9	1	VALVE SEAT	CORPO
10	1	O'RING (ONLY FOR RELIEVING)	O'RING (SOLO PER RELIEVING)
11a	1	BODY	CORPO
12	1	SIPHON	SIFONE
13	2	CONNECTION	TERMINALI FILETTATI
14	2	O'RING	O'RING
15	2	BRACKET	STAFFA
16	1	VALVE STEM	COPRO VALVOLA
17	1	O'RING	O'RING
18	1	VALVE	VALVOLA
19	1	VALVE SPRING	MOLLA VALVOLA
35	8	SCREW M5x16 DIN 912 A2	VITI M5X16
36	1	REGULATOR BOTTOM	PIATTELLO
37	1	REGULATOR VALVE SEAT	SEDE VALVOLA
38	1	O'RING	O'RING
41	1	O'RING VALVE	O'RING VALVE

Overall dimension

Dimensioni di ingombro



R12 A = 3/4"

R16 A = 1"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-R16-0-* -AL-**
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket / Staffa	SQ-FR16
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to relieving options: 0→Relieving 5 → Non Relieving

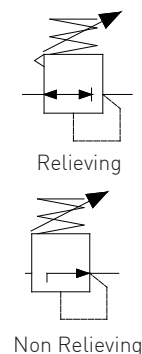
** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

AISI316L 1/4"NPT pressure regulator – R serie

Regolatore di pressione da 1/4"NPT in AISI316L – serie R

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66/ SIL 3 - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL 3 - IEC 61508 



Media / Fluido	Air, inert gases, sweet and sour gases, clean water
Port thread / Connessioni	1/4"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Max inlet pressure / Pressione massima di ingresso	30bar
Relieving/ Scarico sovrappressioni	Standard
Flow Rate (@10 bar inlet, 6bar regulated, delta P=1bar)/ Portata	940dm ³ /min Cv=0.9
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

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

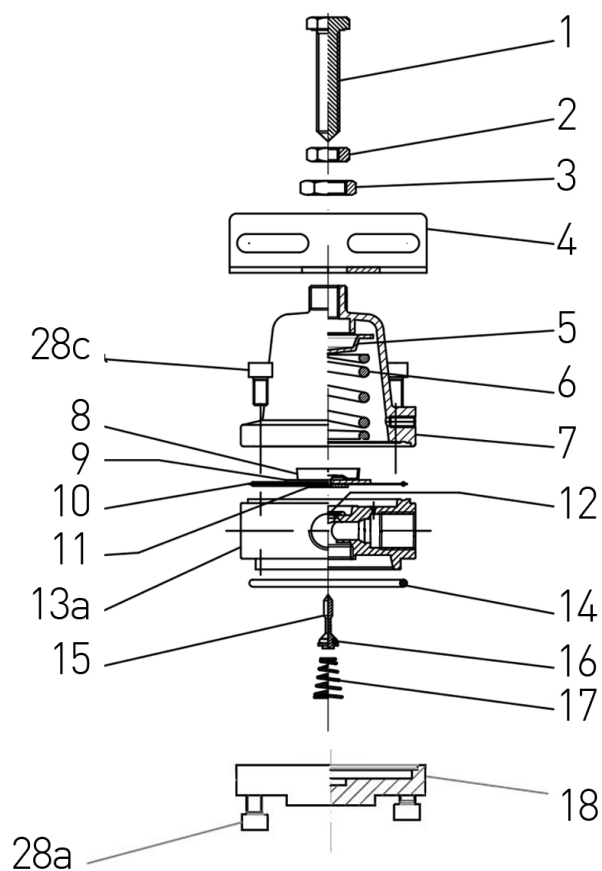
It provides excellent regulation for a wide range of applications. Rugged and corrosion resistant - made of 316/316L stainless steel.

Permette una regolazione accurata per una vasta gamma di applicazioni. Robusto e resistente alla corrosione - costruito in AISI316/316L.

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 e guarnizioni in elastomero

Product exploded view

Esploso del prodotto

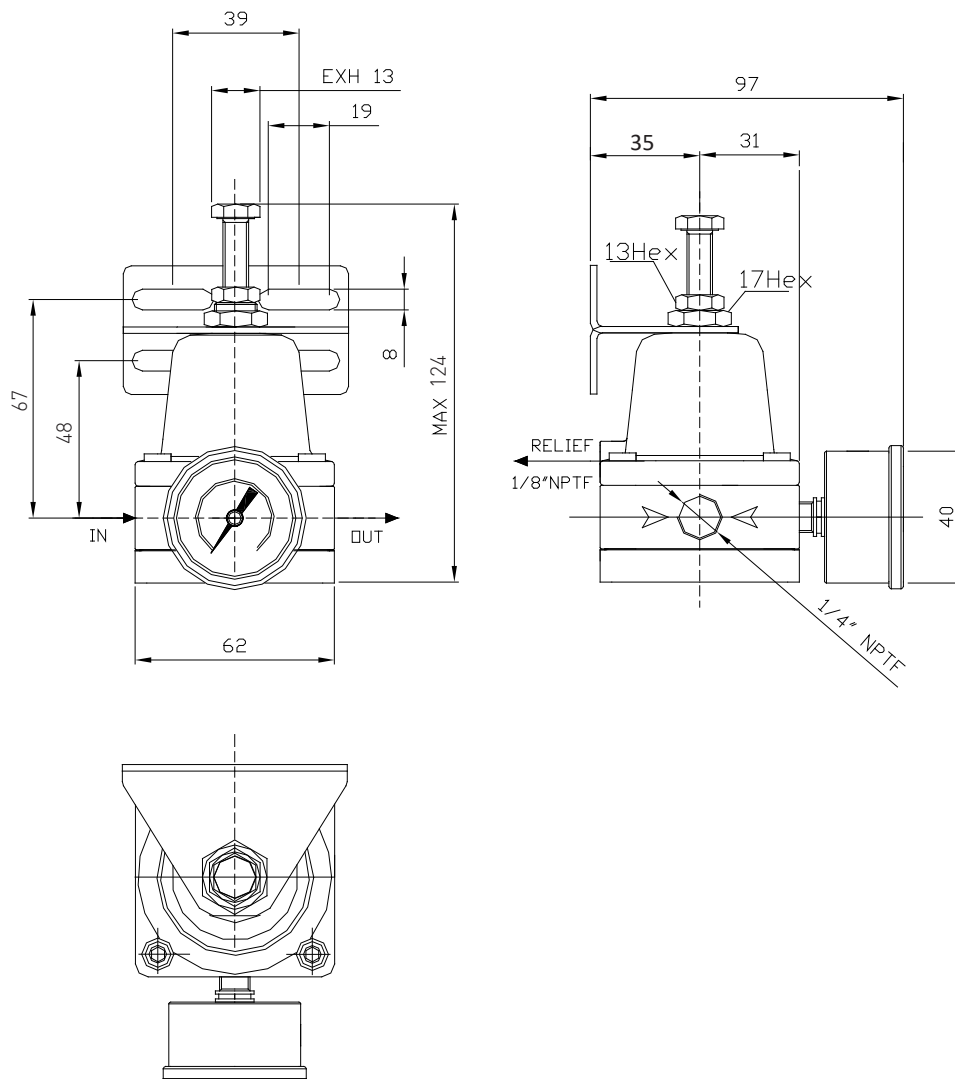


Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	DADO STAFFA
4a	1	BRACKET	STAFFA
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET	TAZZA SUPERIORE
8	1	LOWER SPRING GUIDE	GUIDA INFERIORE MOLLA
9	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
10	1	DIAPHRAGM	DIAFRAMMA
11	1	VALVE SEAT	SEDE VALVOLA
12	1	PTFE RING	ANELLO PTFE
13a	1	BODY	CORPO
14	1	O-RING	O-RING
15	1	VALVE STEM	CORPO VALVOLA
16	1	O-RING VALVE STEM	O-RING VALVE STEM
17	1	VALVE SPRING	MOLLA VALVOLA
18	1	REGULATOR BOTTOM	PIATTELLO
28a	4	SCREW M5X10	VITI M5X10
28c	4	SCREW M5X10	VITI M5X10

BT-R04SS/C23B

Overall dimension

Dimensioni di ingombro



R04 A = 1/4"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	K-R04-0-*-SS-** [1/4"]
Pressure gauge DN40mm, all inox, Bar+psi+kpa range / Manometro DN40mm, tutto inox, scala Bar+psi+kpa	0-2,5 bar MBS6P4S2PN04 0-4bar MBS6P4S2PN05 0-10bar MBS6P4S2PN07
Bracket / Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

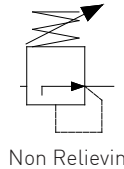
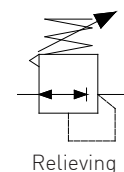
* Refers to relieving options: 0→Relieving 5 → Non Relieving

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

AISI316L 3/8"-1/2"NPT pressure regulator – R serie

Regolatore di pressione da 3/8" e 1/2"NPT in AISI316L – serie R

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66/ SIL 3 - IEC 61508 
- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL 3 - IEC 61508 



Media / Fluido	Air, inert gases, sweet and sour gases, clean water
Port thread / Conessioni	3/8"-1/2"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Max inlet pressure / Pressione massima di ingresso	30bar
Relieving/ Scarico sovrappressioni	Standard
Flow Rate (@10 bar inlet, 6bar regulated, delta P=1bar)/ Portata	4500dm3/min Cv=4.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

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

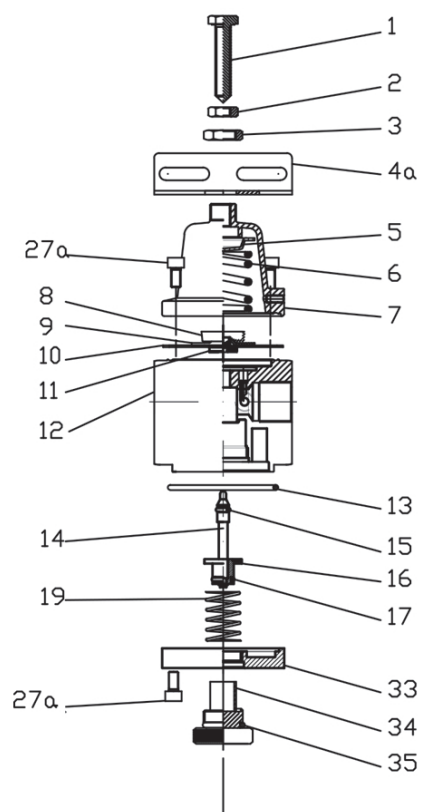
It provides excellent regulation for a wide range of applications. Rugged and corrosion resistant - made of 316/316L stainless steel.

Permette una regolazione accurata per una vasta gamma di applicazioni. Robusto e resistente alla corrosione - costruito in AISI316/316L.

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

Product exploded view

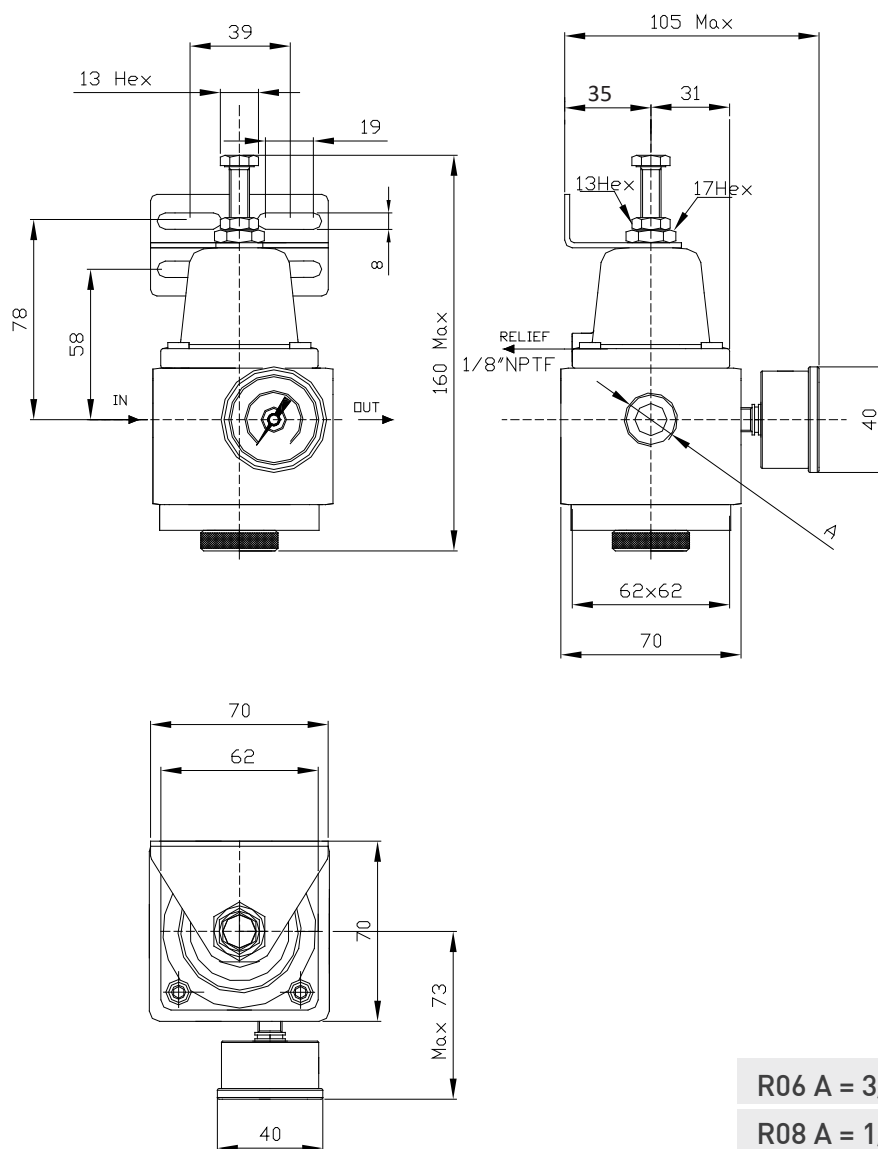
Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	DADO STAFFA
4a	1	BRACKET FR/R	STAFFA
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET	TAZZA SUPERIORE
8	1	LOWER SPRING GUIDE	GUIDA INFERIORE MOLLA
9	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
10	1	DIAPHRAGM	DIAFRAMMA
11	1	VALVE SEAT	SEDE VALVOLA
12	1	BODY	CORPO
13	1	O-RING	O-RING
14	1	VALVE STEM	CORPO VALVOLA
15	1	O'RING VALVE STEM	O'RING VALVE STEM
16	1	VALVE	VALVOLA
17	1	O'RING VALVE	O'RING VALVE
19	1	VALVE SPRING	MOLLA VALVOLA
27a	8	SCREW M5X10	VITI M5X10
33	1	REGULATOR BOTTOM	PIATTELLO
34	1	REGULATOR VALVE SEAT	SEDE VALVOLA
35	1	O-RING	O-RING

Overall dimension

Dimensioni di ingombro



R06 A = 3/8"

R08 A = 1/2"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-R08-0-* -SS- **
Pressure gauge DN40mm, all SS, Bar+psi+kpa range / Manometro DN40mm, tutto inox, scala Bar+psi+kpa	0-2,5 bar MBS6P4S2PN04 0-4bar MBS6P4S2PN05 0-10bar MBS6P4S2PN07
Bracket / Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to relieving options: 0→Relieving 5 → Non Relieving

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

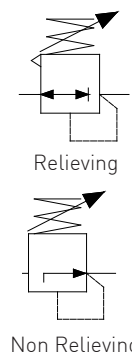
AISI316L 3/4"-1"NPT pressure regulator – R serie

Regolatore di pressione da 3/4" - 1"NPT in AISI316L – serie R

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

-  &  approved / IP66/ SIL 3 - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni  ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL 3 - IEC 61508 



Media / Fluido	Air, inert gases, sweet and sour gases, clean water
Port thread / Connessioni	3/4"-1" NPT
Gauge Connection Connessione manometro	1/4"NPT (1/8"NPT option)
Max inlet pressure / Pressione massima di ingresso	30bar
Relieving/ Scarico sovrappressioni	Standard
Flow rate (@10bar inlet, 6bar regulated, delta P=1bar) / Portata	11500dm3/min Cv=11.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

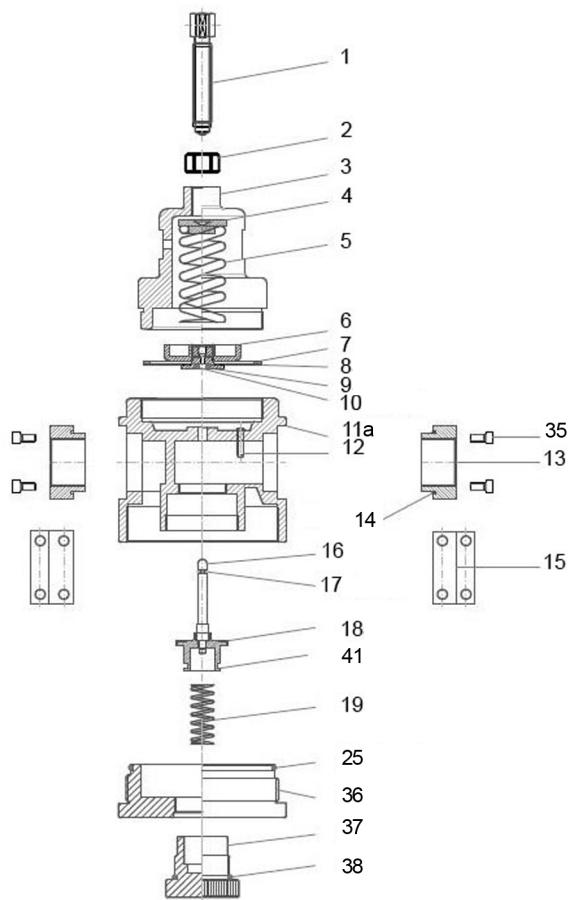
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and for a wide range of applications. Rugged and corrosion-resistant – made of 316L stainless steel / Permette un'accurata regolazione per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito in acciaio inossidabile 316L

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

Product exploded view

Esploso del prodotto

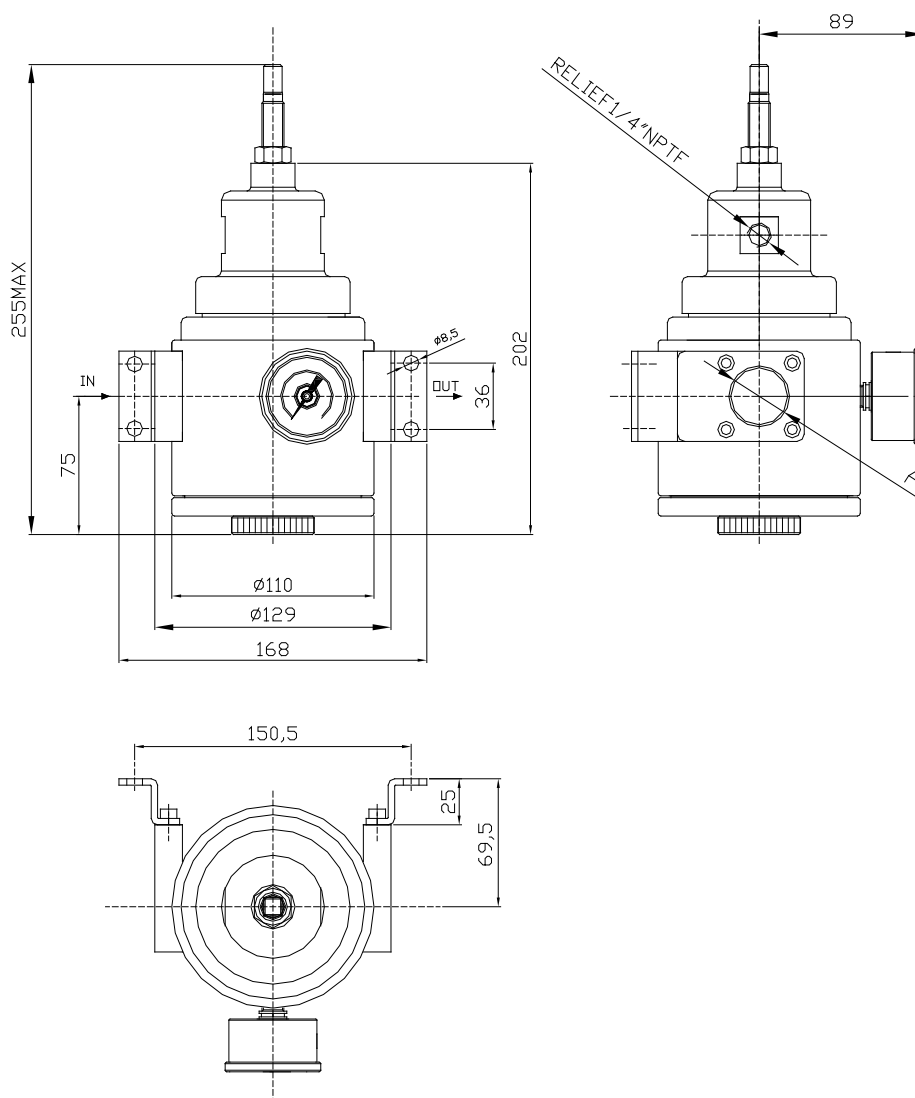


Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BONNET	TAZZA SUPERIORE
4	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
5	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
6	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
7	1	SLIP RING	SLIP RING
8	1	DIAPHRAGM	SEDE VALVOLA
9	1	VALVE SEAT	CORPO
10	1	O'RING (ONLY FOR RELIEVING)	O'RING (SOLO PER RELIEVING)
11a	1	BODY	CORPO
12	1	SIPHON	SIFONE
13	2	CONNECTION	TERMINALI FILETTATI
14	2	O'RING	O'RING
15	2	BRACKET	STAFFA
16	1	VALVE STEM	COPRO VALVOLA
17	1	O'RING	O'RING
18	1	VALVE	VALVOLA
19	1	VALVE SPRING	MOLLA VALVOLA
35	8	SCREW M5x16 DIN 912 A2	VITI M5X16
36	1	REGULATOR BOTTOM	PIATTELLO
37	1	REGULATOR VALVE SEAT	SEDE VALVOLA
38	1	O'RING	O'RING
41	1	O'RING VALVE	O'RING VALVE

BT-R16SS/C23B

Overall dimension

Dimensioni di ingombro



R12 A = 3/4"

R16 A = 1"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-R16-0-SS-** [1"]
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, tutto inox, scala Bar+psi+kpa	0-2,5 bar MBS6P4S2PN04 0-4bar MBS6P4S2PN05 0-10bar MBS6P4S2PN07
Bracket / Staffa	SQ-FR16
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

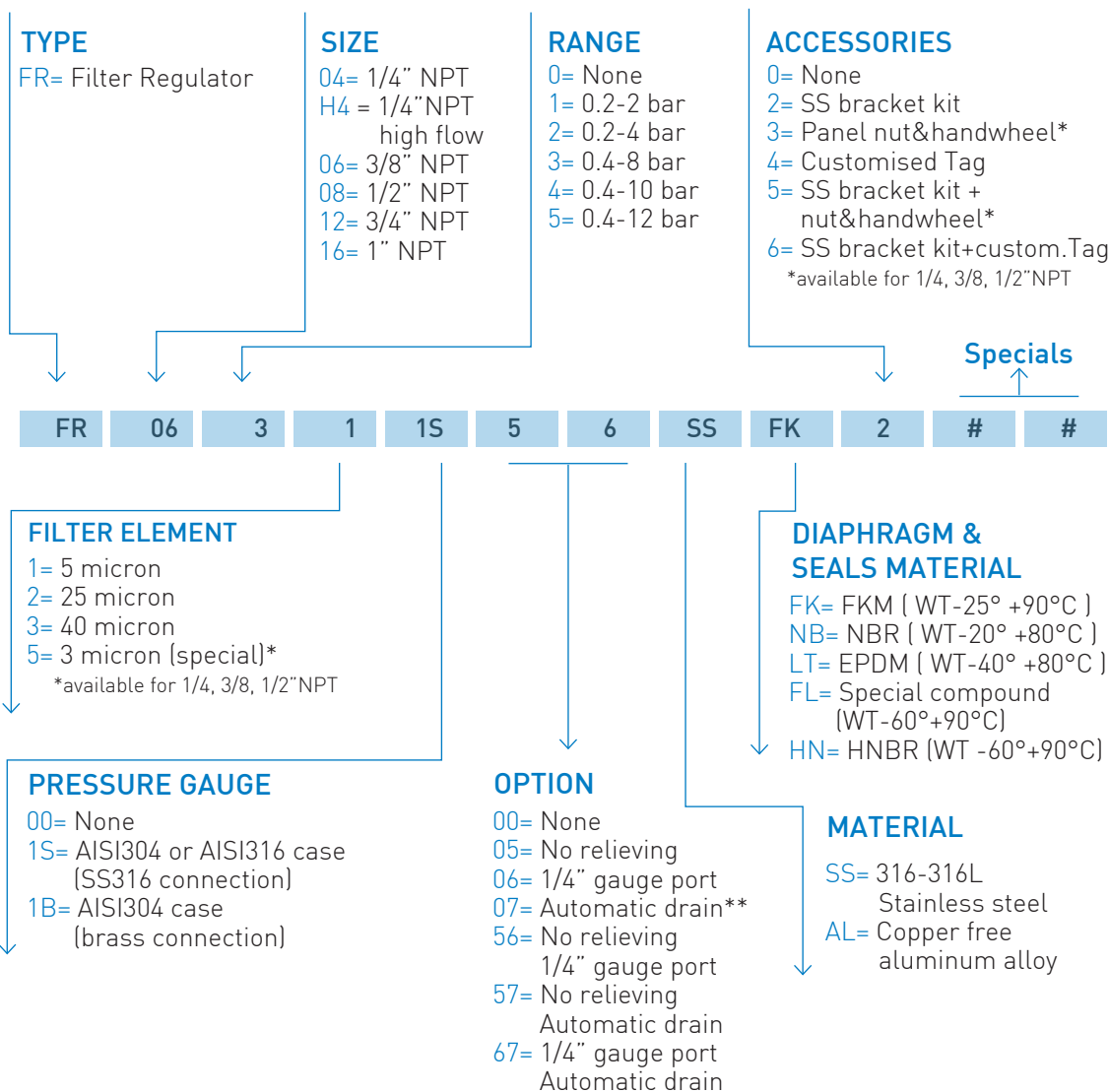
* Refers to relieving options: 0→Relieving 5 → Non Relieving

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

Ordering information - Filter regulators

Come ordinare - Filtri regolatori

www.sitecna.eu



CODE EXAMPLES

FR	08	3	3	1S	0	7	SS	FK	2	
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1/2" NPT, SS316, 0 to 8 bar range, filter regulator, with 40 micron filtering element, relieving, SS pressure gauge, automatic drain, ss bracket kit and FKM diaphragm & seals
 Filtro regolatore da 1/2" NPT in AISI316, range regolato 0/8 bar, elemento filtrante da 40 micron, manometro tutto inox, relieving, scarico condensa automatico, staffa inox, diaframma e tenute in FKM

FR	06	3	1	00	0	0	SS	FK	0	
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3/8" NPT, SS316, 0 to 8 bar range, filter regulator, with 5 micron filtering element, relieving and FKM diaphragm & seals

Filtro regolatore da 3/8" NPT in AISI316, range regolato 0/8 bar, elemento filtrante da 5 micron, relieving, diaframma e tenute in FKM

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

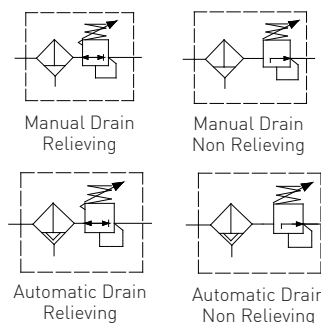
01-FR/23A

Copper free aluminum alloy 1/4"NPT filter regulator – FR serie

Filtro Regolatore da 1/4"NPT in lega di alluminio esente rame – serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL - IEC 61508 



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	1/4"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Max inlet pressure Pressione massima di ingresso	25bar (16bar automatic drain version)
Filtering element Elemento filtrante	3, 5, 25, 40 micron in st. st. 316
Drain valve / Scarico condensa	Manual or automatic
Flow Rate (@10 bar inlet, 6bar regulated, delta P=1bar)/ Portata	940dm ³ /min Cv=0.9
Working Temperature Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

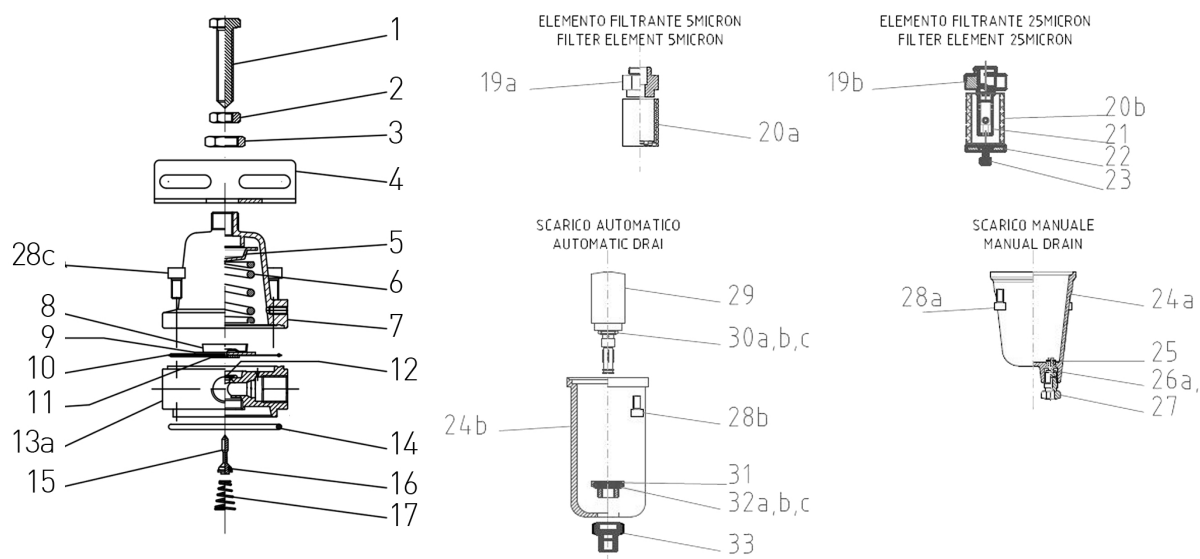
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and filtering for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316. Compact small package size / Permette un'accurata regolazione e filtraggio per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI316 - Dimensioni di ingombro ridotte

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, bowl in tropicalized copper free aluminum alloy	Corpo, coperchio, tazza in lega di alluminio esente rame tropicalizzata
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
3, 5, 25 & 40 micron filtering element in AISI316 SS	Elementi filtranti da 3, 5, 25 e 40micron in AISI316
Diaphragm & seals in elastomer	Diaframma e guarnizioni in elastomero

Product exploded view

Esploso del prodotto



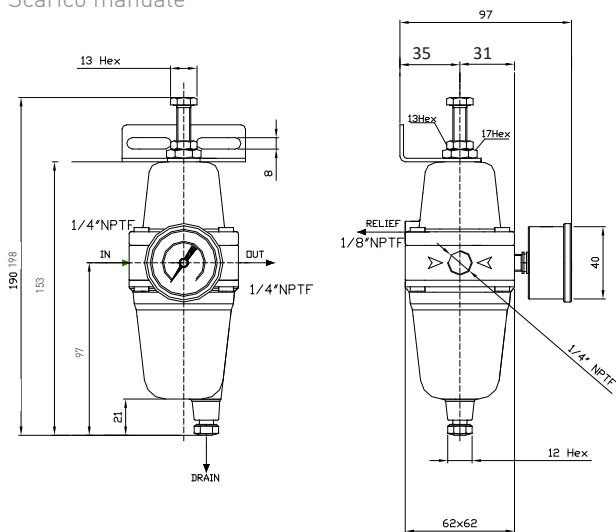
Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	VITE DI REGOLAZIONE
4a	1	BRACKET FR/R	DADO FISSAGGIO REGOLAZIONE
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET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

Overall dimension

Dimensioni di ingombro

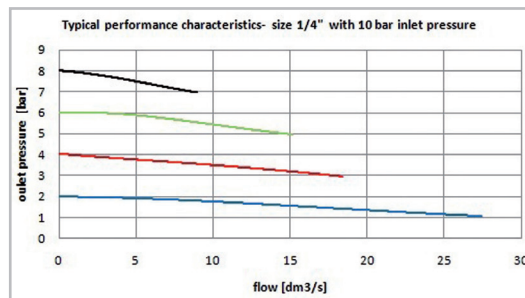
Manual drain

Scarico manuale



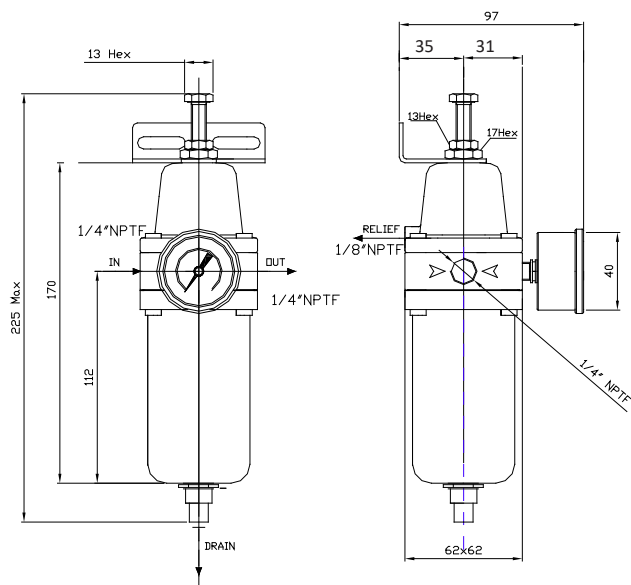
Flow characteristics

Caratteristiche di portata



Automatic drain

Scarico automatico



Note for automatic drain:

- max inlet pressure 16bar
- not recommended for $T < 2^{\circ}\text{C}$

Nota per scarico automatico:

- massima pressione di utilizzo 16bar
- non raccomandato per $T < 2^{\circ}\text{C}$

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione [1/4"]	Items K-FR04-*-*-AL-***
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket and lock nut / Staffa e Dado	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving 5→Non Relieving

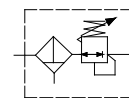
*** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

Copper free aluminum alloy 1/4"NPT high flow filter regulator – FRH serie

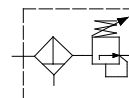
Filtro Regolatore ad alta portata da 1/4"NPT in lega di alluminio esente rame – serie FR

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

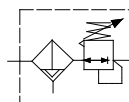
- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X



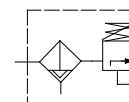
Manual Drain Relieving



Manual Drain Non Relieving



Automatic Drain Relieving



Automatic Drain Non Relieving

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

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

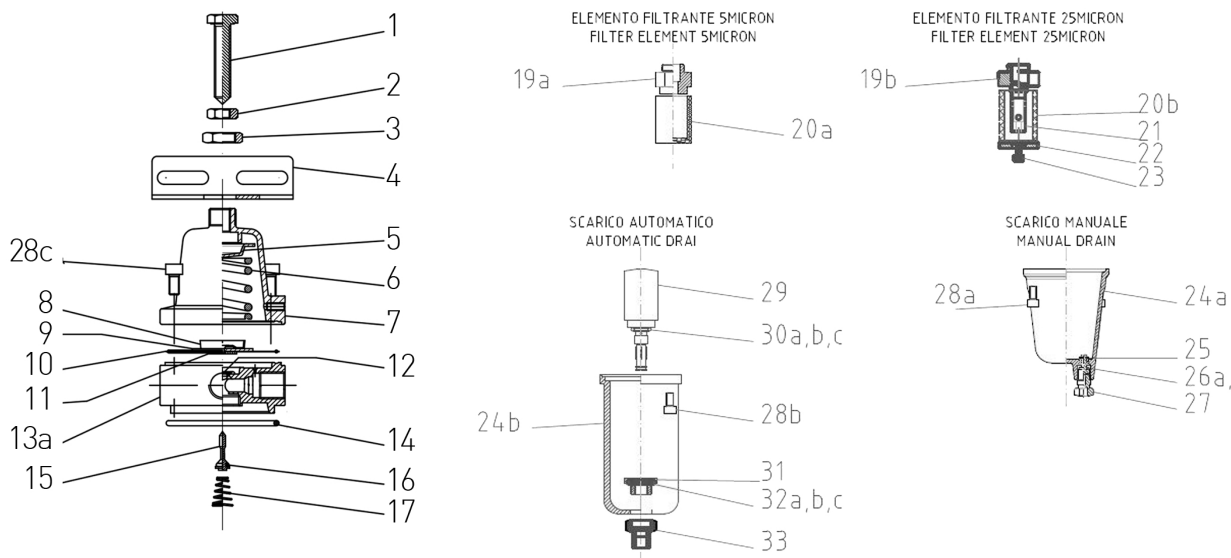
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and filtering for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316. Compact small package size / Permette un'accurata regolazione e filtraggio per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI316 - Dimensioni di ingombro ridotte

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, bowl in tropicalized copper free aluminum alloy	Corpo, coperchio, tazza in lega di alluminio esente rame tropicalizzata
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
5, 25 & 40 micron filtering element in AISI316 SS	Elementi filtranti da 5, 25 e 40micron in AISI316
Diaphragm & seals in elastomer	Diaframma e guarnizioni in elastomero

Product exploded view

Esploso del prodotto



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

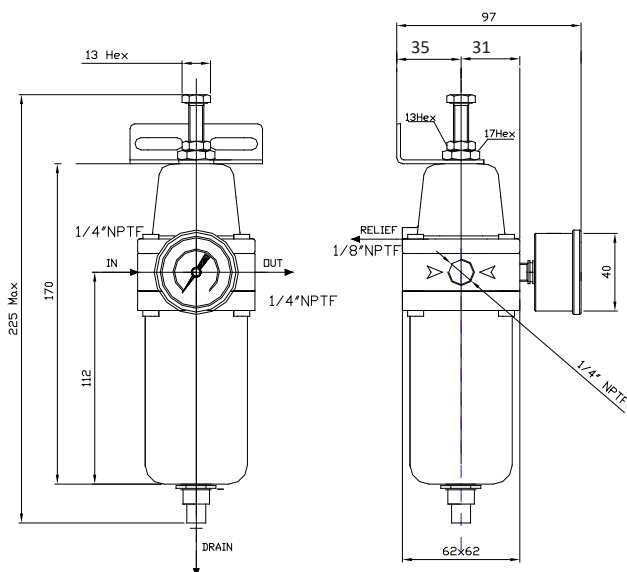
BT-FRH4AL/C23B

Overall dimension

Dimensioni di ingombro

Automatic drain

Scarico automatico



Note for automatic drain:

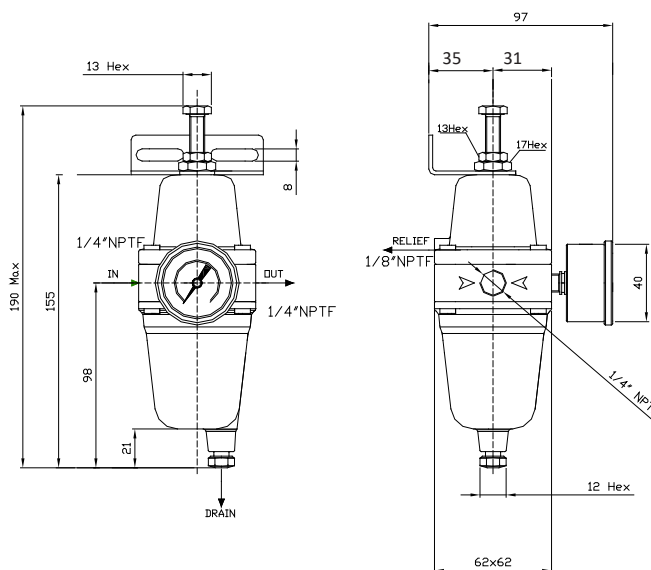
- max inlet pressure 16bar
- not recommended for $T < 2^{\circ}\text{C}$

Nota per scarico automatico:

- massima pressione di utilizzo 16bar
- non raccomandato per $T < 2^{\circ}\text{C}$

Manual drain

Scarico manuale



Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione [1/4"]	Items K-FRH4-*-*-AL-***
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket / Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving 5→Non Relieving

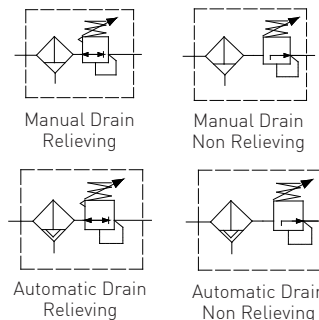
*** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

Copper free aluminum alloy 3/8", 1/2"NPT high flow filter regulator – FR serie

Filtro Regolatore da 3/8" e 1/2"NPT in lega di alluminio esente rame – serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL - IEC 61508 



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/8"-1/2"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Filtering element Elemento filtrante	3, 5, 25, 40 micron in st. st. 316
Max inlet pressure / Pressione massima di ingresso	25bar (16bar automatic drain version)
Drain valve/ Scarico condensa	Manual or automatic
Flow rate (@10bar inlet, 6bar regulated, delta P=1bar)/ Portata	4500dm3/min Cv=4.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

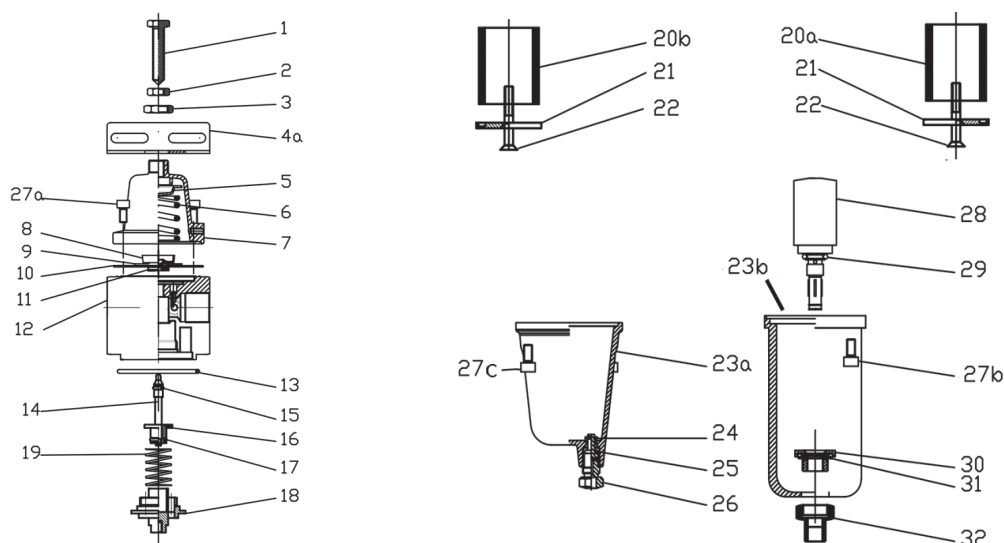
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and filtering for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316. Compact small package size / Permette un'accurata regolazione e filtraggio per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI316 - Dimensioni di ingombro ridotte

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, bowl in tropicalized copper free aluminum alloy	Corpo, coperchio, tazza in lega di alluminio esente rame tropicalizzata
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
3, 5, 25 & 40 micron filtering element in AISI316 SS	Elementi filtranti da 3, 5, 25 e 40micron in AISI316
Diaphragm & seals in elastomer	Diaframma e guarnizioni in elastomero

Product exploded view

Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	DADO STAFFA
4a	1	BRACKET	STAFFA
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET	TAZZA SUPERIORE
8	1	LOWER SPRING GUIDE	GUIDA INFERIORE MOLLA
9	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
10	1	DIAPHRAGM	DIAFRAMMA
11	1	VALVE SEAT	SEDE VALVOLA
12	1	BODY	CORPO
13	1	O-RING	O-RING
14	1	VALVE STEM	CORPO VALVOLA
15	1	O'RING VALVE STEM	O'RING CORPO VALVOLA
16	1	VALVE	VALVOLA
17	1	O'RING VALVE	O'RING VALVOLA
18	1	FILTER ELEMENT SUPPORT	SUPPORTO ELE. FILTRANTE
19	1	VALVE SPRING	MOLLA VALVOLA
20a	1	FILTER ELEMENT 5 MICRON	ELEMENTO FILTRANTE 5 MIC
20b	1	FILTER ELEMENT 25 MICRON	ELEMENTO FILTRANTE 25 MIC
21	1	FILTER ELEMENT PLUG	FONDELLO ELEMNTE FILTRANTE
22	1	SCREW M5X30	VITE M5X30
23a	1	MANUAL DRAIN BOLW	TAZZA SCARICO MANUALE
23b	1	AUTOMATIC DRAIN BOLW	TAZZA SCARICO AUTOMATICO
24	1	BENZIN	ANELLO BENZIN
25	1	O'RING DRAIN	O'RING DRAIN
26	1	MANUAL DRAIN	SCARICO MANUALE
27a	4	SCREW M5X10	VITI M5X10
27b	4	SCREW AUTO DRAIN M5X16	VITI SCARICO AUTO M5X16
27c	4	SCREW MAN DRAIN M5X10	VITI SCARICO MANUALE M5X10
28	1	AUTOMATIC DRAIN	SCARICO AUTOMATICO
29	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
30	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO
31	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
32	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO

Overall dimension

Dimensioni di ingombro

FR06 A = 3/8"

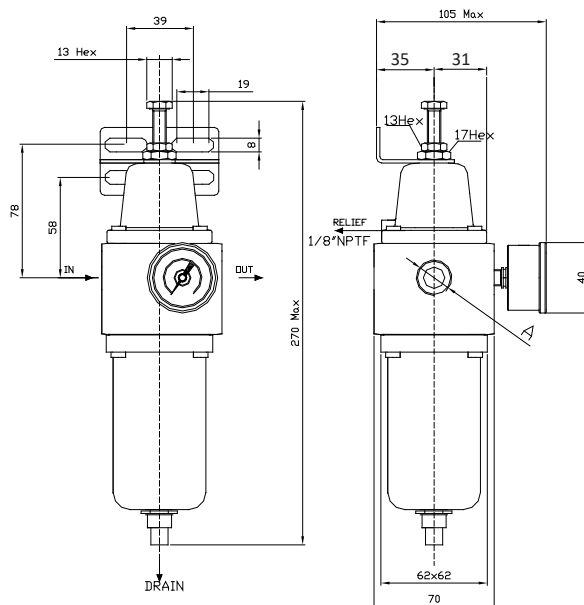
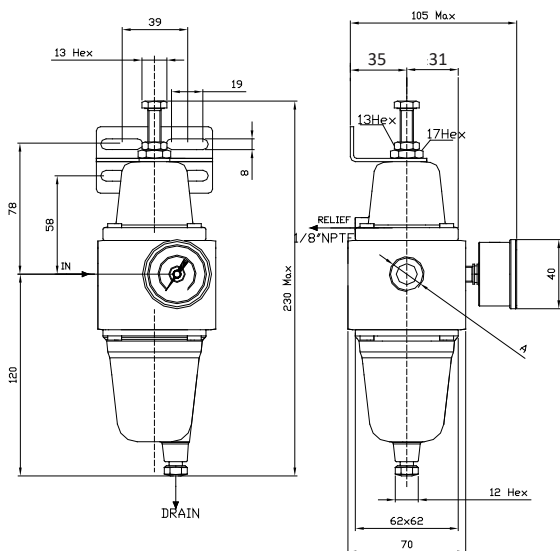
FR08 A = 1/2"

Manual drain

Scarico manuale

Automatic drain

Scarico automatico



Flow characteristics

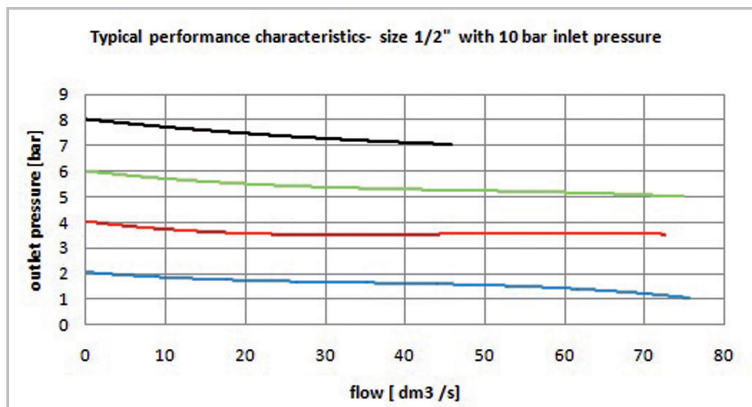
Caratteristiche di portata

Note for automatic drain:

- max inlet pressure 16bar
- not recommended for $T < 2^{\circ}\text{C}$

Nota per scarico automatico:

- massima pressione di utilizzo 16bar
- non raccomandato per $T < 2^{\circ}\text{C}$



Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-FR08-***-AL-*** [1/2"]
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket / Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving; 5→Non Relieving

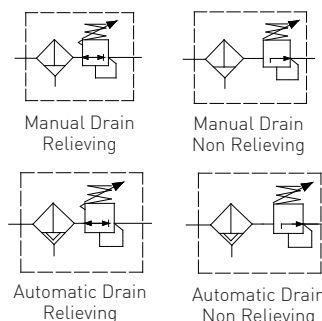
*** Refers to seals type: FK→FKM; NB→NBR; LT→EPDM; FL→FVMQ; HN→HNBR

Copper free aluminum alloy 3/4"-1"NPT filter regulator – FR serie

Filtro regolatore da 3/4"- 1"NPT in lega di alluminio esente rame- serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL - IEC 61508 



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/4"-1" NPT
Gauge Connection Connessione manometro	1/4"NPT (1/8"NPT option)
Filtering element Elemento filtrante	5, 25, 40 micron in st. st. 316
Max inlet pressure / Pressione massima di ingresso	25bar (16bar automatic drain version)
Drain valve/ Scarico condensa	Manual or automatic
Flow rate (@10bar inlet, 6bar regulated, delta P=1bar) / Portata	11500dm3/min Cv=11.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

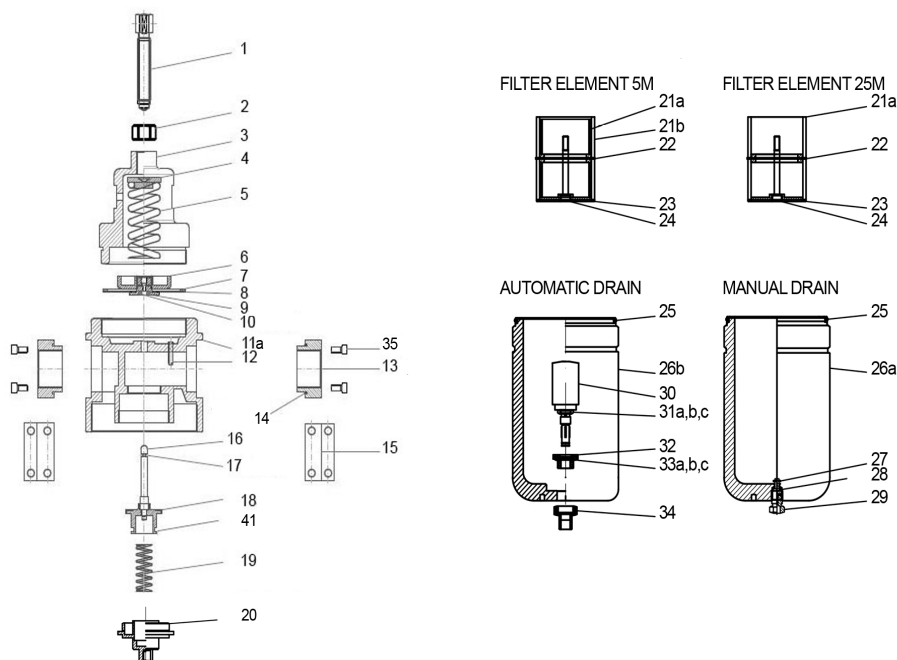
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and filtering for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316 / Permette un'accurata regolazione e filtraggio per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito lega di alluminio ed AISI316

BUILDING MATERIALS	Materiali costruttivi
Body, bonnet, bowl in tropicalized copper free aluminum alloy	Corpo, coperchio, tazza in lega di alluminio esente rame tropicalizzata
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
5, 25 & 40 micron filtering element in AISI316 SS	Elementi filtranti da 5, 25 e 40micron in AISI316
Diaphragm & seals in elastomer	Diaframma e guarnizioni in elastomero

Product exploded view

Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BONNET	TAZZA SUPERIORE
4	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
5	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
6	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
7	1	SLIP RING	SLIP RING
8	1	DIAPHRAGM	DIAFRAMMA
9	1	VALVE SEAT	SEDE VALVOLA
10	1	O'RING (ONLY FOR RELIEVING)	O'RING (SOLO PER RELIEVING)
11a	1	BODY	CORPO
12	1	SIPHON	SIFONE
13	2	CONNECTION	TERMINALI FILETTATI
14	2	O'RING	O'RING
15	2	BRACKET	STAFFA
16	1	VALVE STEM	CORPO VALVOLA
17	1	O'RING	O'RING
18	1	VALVE	VALVOLA
19	1	VALVE SPRING	MOLLA VALVOLA
20	1	FILTER ELEMENT SUPPORT	SUPPORTO ELE. FILTRANTE
21a	2	FILTER ELEMENT 5 MICRON	ELEMENTO FILTRANTE 5 MIC
21b	2	FILTER ELEMENT 25 MICRON	ELEMENTO FILTRANTE 25 MIC
22	1	FILTER ELEMENT RING	ANELLO ELEMENTO FILTRANTE
23	1	FILTER ELEMENT PLUG	FONDELLO ELEMENTO FILTRANTE
24	1	FILTER ELEMENT SCREW	VITE ELEMENTO FILTRANTE
25	1	O'RING BOWL	O'RING TAZZA
26a	1	MANUAL DRAIN BOWL	TAZZA SCARICO MANUALE
26b	1	AUTOMATIC DRAIN BOWL	TAZZA SCARICO AUTOMATICO
27	1	BENZIN	ANELLO BENZIN
28	1	O'RING DRAIN	O'RING DRAIN
29	1	MANUAL DRAIN	SCARICO MANUALE
30	1	AUTOMATIC DRAIN	SCARICO AUTOMATICO
31	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
32	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO
33	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
34	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO
35	8	SCREW M5x16 DIN 912 A2	VITI M5X16
41	1	O'RING VALVE	O'RING

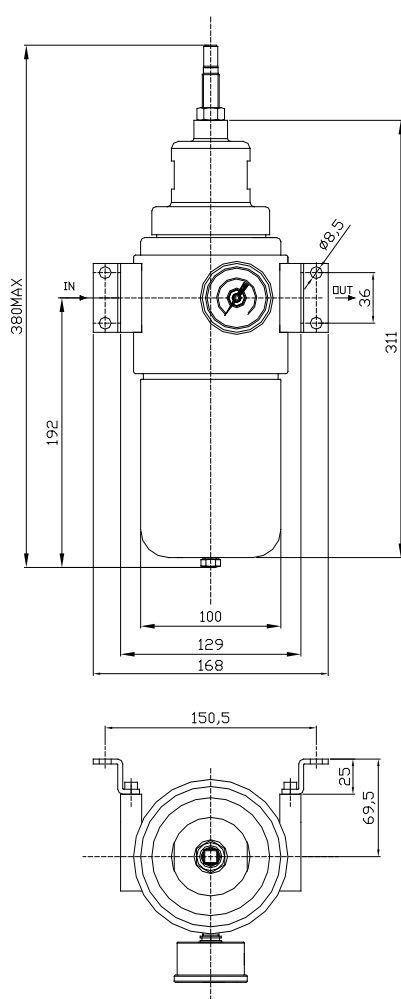
BT-FR16AL/C23B

Overall dimension

Dimensioni di ingombro

Manual drain

Scarico manuale

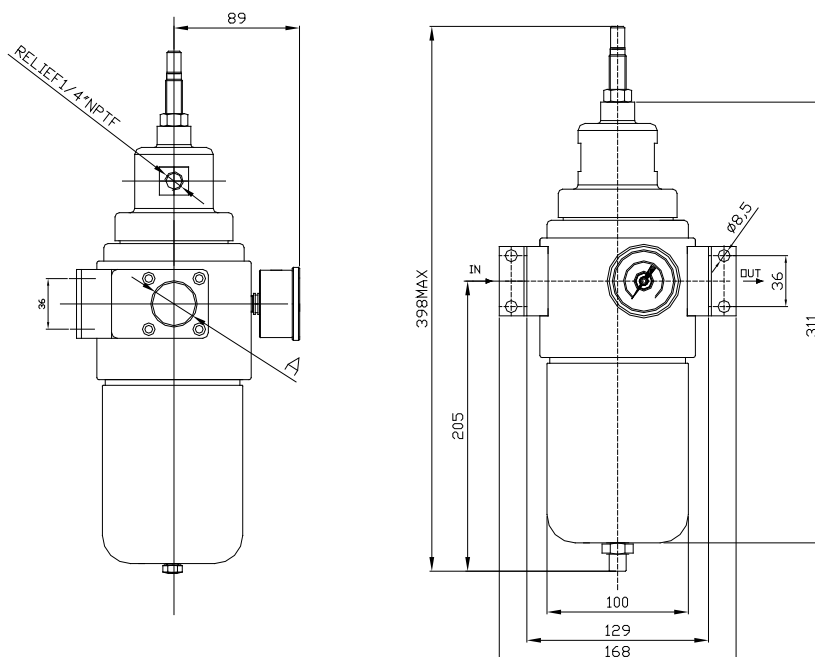


FR12 A = 3/4"

FR16 A = 1"

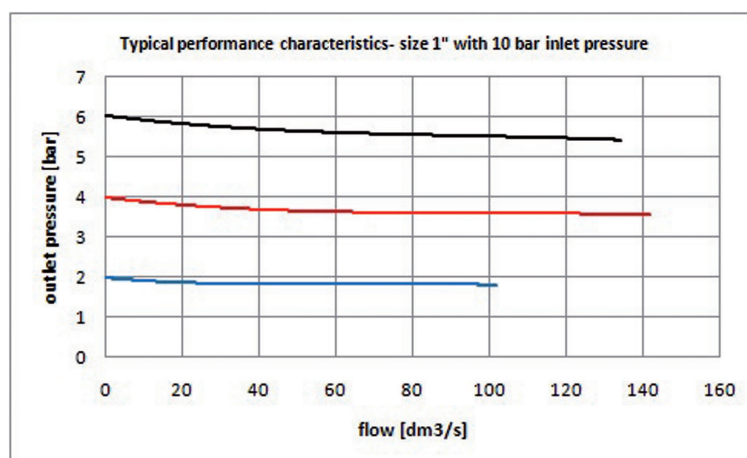
Automatic drain

Scarico automatico



Note for automatic drain / Nota per scarico automatico:

- max inlet pressure 16bar / massima pressione di utilizzo 16bar
- not recommended for $T < 2^{\circ}\text{C}$ / non raccomandato per $T < 2^{\circ}\text{C}$



Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-FR16-**-**-AL-***
Pressure gauge DN40mm, SS case, Bar+psi+kpa range / Manometro DN40mm, cassa inox, scala Bar+psi+kpa	0-2bar MBSNP4S2PN3S 0-4bar MBSNP4S2PN05 0-10bar MBSNP4S2PN07
Bracket / Staffa	SQ-FR16
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving 5→Non Relieving

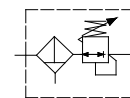
*** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

AISI316L 1/4"NPT instrument filter regulator – FR serie

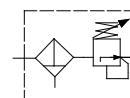
Filtro regolatore da 1/4"NPT in AISI316L – serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL - IEC 61508 

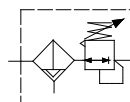
- Adatto per automazione in applicazioni marine petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL - IEC 61508 



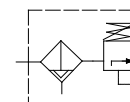
Manual Drain
Relieving



Manual Drain
Non Relieving



Automatic Drain
Relieving



Automatic Drain
Non Relieving

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Conessioni	1/4"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Filtering element Elemento filtrante	3, 5, 25, 40 micron in st. st. 316
Max inlet pressure Pressione massima di ingresso	30bar (16bar automatic drain version)
Drain valve / Scarico condensa	Manual or automatic
Flow Rate (@10bar inlet, 6bar regulated, delta P=1bar)/ Portata	940dm ³ /min Cv=0.9
Working Temperature Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

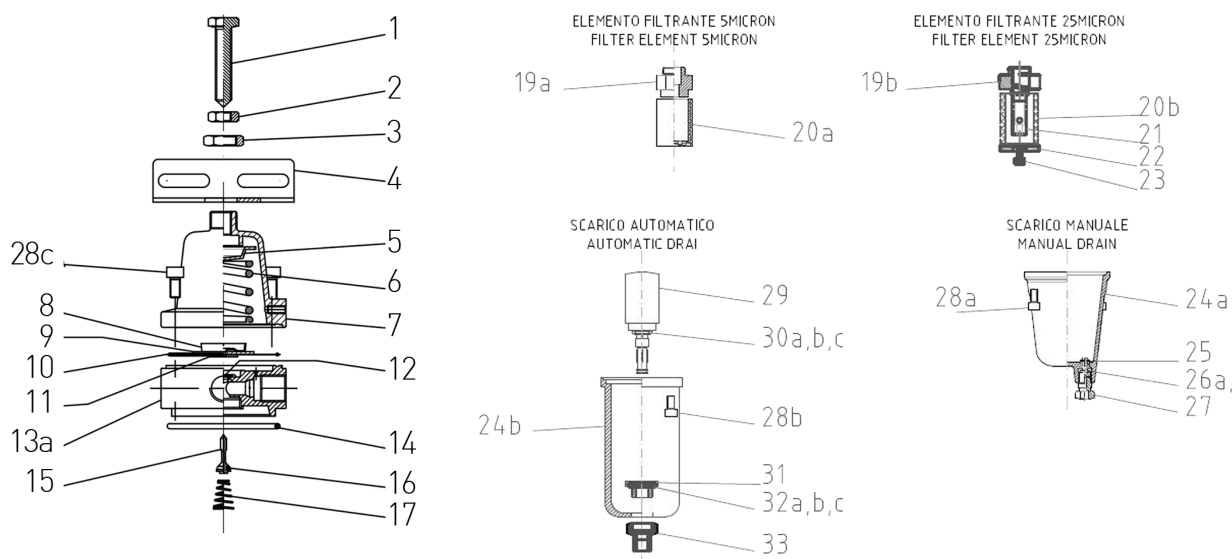
*Special version in HNBR (WT -60°C + 90°C)

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

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

Product exploded view

Esploso del prodotto



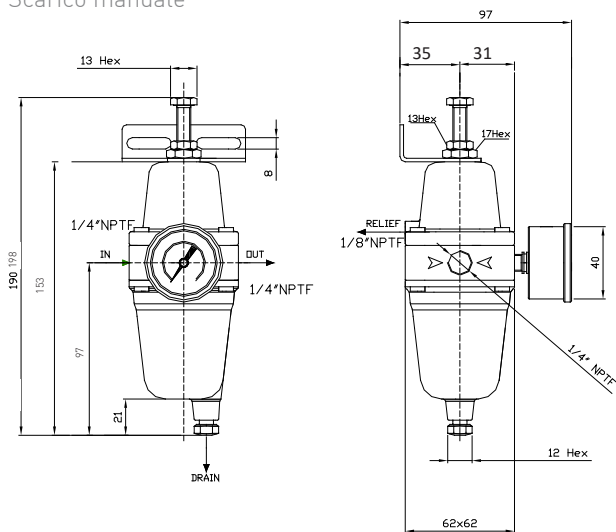
Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	VITE DI REGOLAZIONE
4a	1	BRACKET FR/R	DADO FISSAGGIO REGOLAZIONE
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET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

Overall dimension

Dimensioni di ingombro

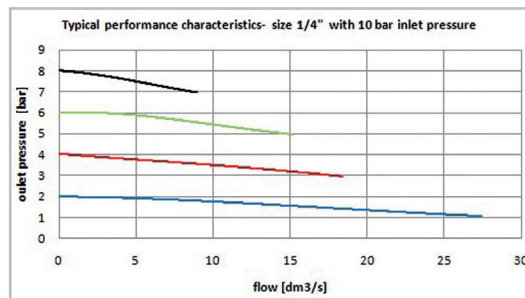
Manual drain

Scarico manuale



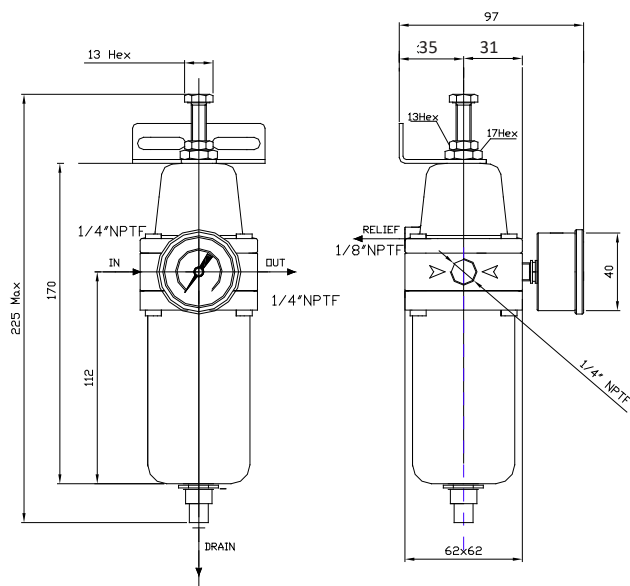
Flow characteristics

Caratteristiche di portata



Automatic drain

Scarico automatico



Note for automatic drain:

- max inlet pressure 16bar
- not recommended for $T < 2^{\circ}\text{C}$

Nota per scarico automatico:

- massima pressione di utilizzo 16bar
- non raccomandato per $T < 2^{\circ}\text{C}$

Accessories and repair kit

Accessori e ricambi

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

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving 5→Non Relieving

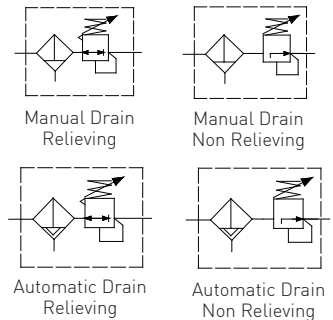
*** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

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

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

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

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



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

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

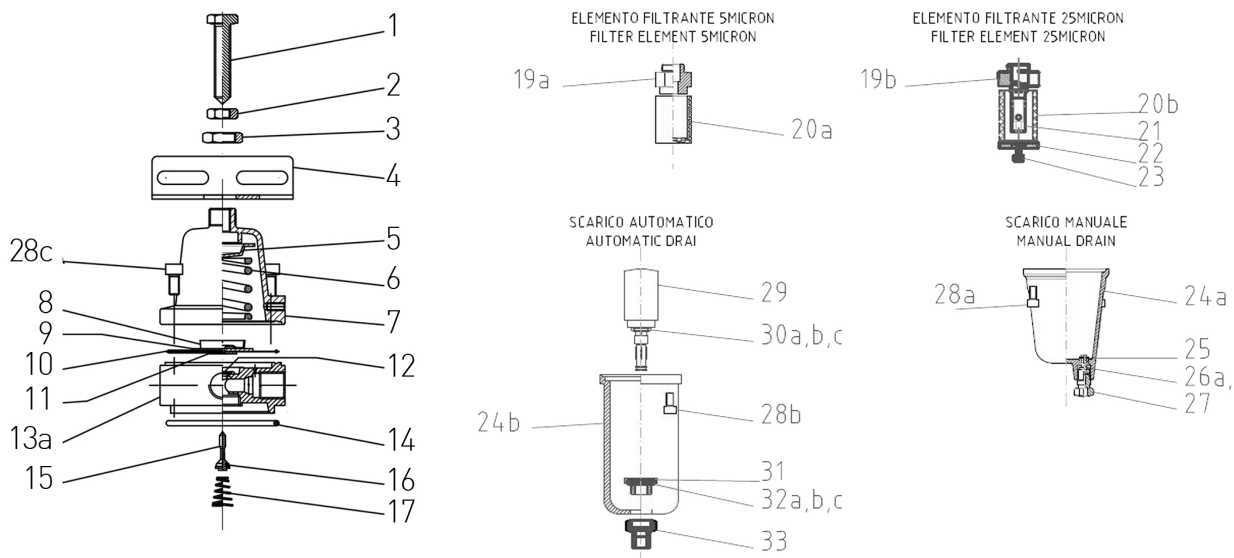
***Special version in HNBR (WT -60°C + 90°C)**

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

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

Product exploded view

Esploso del prodotto



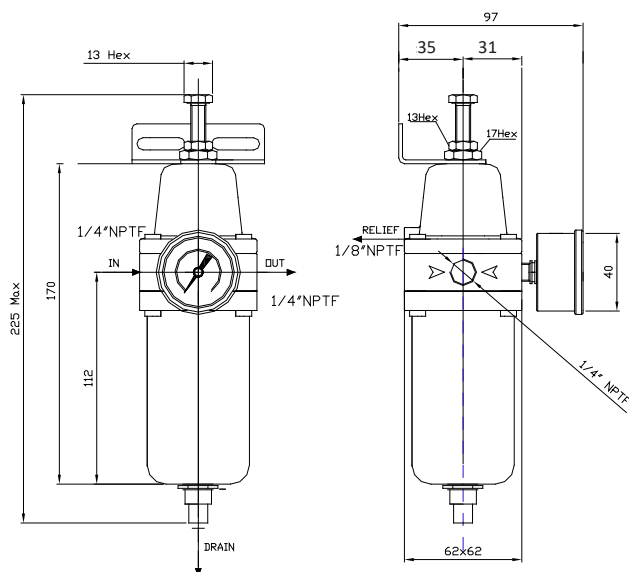
Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	VITE DI REGOLAZIONE
4a	1	BRACKET FR/R	DADO FISSAGGIO REGOLAZIONE
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET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

Overall dimension

Dimensioni di ingombro

Automatic drain

Scarico automatico



Manual drain

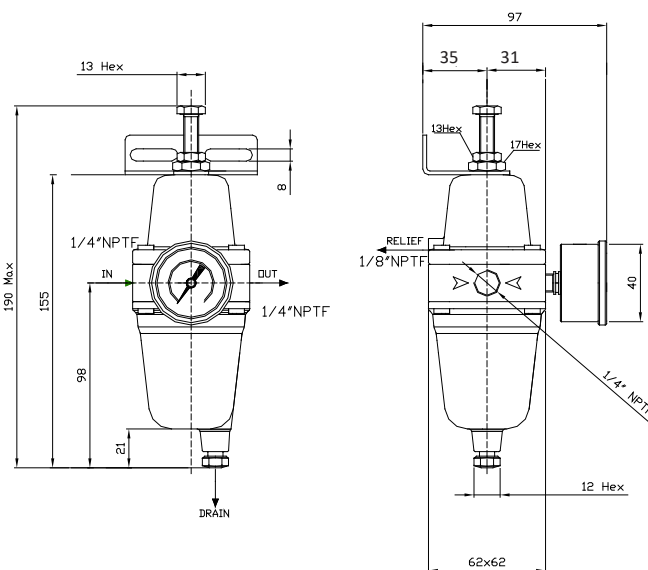
Scarico manuale

Note for automatic drain:

- max inlet pressure 16bar
- not recommended for $T < 2^{\circ}\text{C}$

Nota per scarico automatico:

- massima pressione di utilizzo 16bar
- non raccomandato per $T < 2^{\circ}\text{C}$



Accessories and repair kit

Accessori e ricambi

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

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving 5→Non Relieving

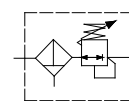
*** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

AISI316L 3/8"-1/2"NPT instrument filter regulator – FR serie

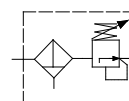
Filtro regolatore da 3/8" e 1/2"NPT in AISI316L – serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL - IEC 61508 

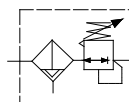
- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL - IEC 61508 



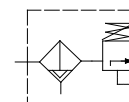
Manual Drain Relieving



Manual Drain Non Relieving



Automatic Drain Relieving



Automatic Drain Non Relieving

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Conessioni	3/8"-1/2"NPT
Gauge Connection Connessione manometro	1/8"NPT (1/4"NPT option)
Filtering element Elemento filtrante	3, 5, 25, 40 micron in st. st. 316
Max inlet pressure / Pressione massima di ingresso	30bar (16bar automatic drain version)
Drain valve/ Scarico condensa	Manual or automatic
Flow rate (Q10bar inlet, 6bar regulated, delta P=1bar) / Portata	4500dm3/min Cv=4.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

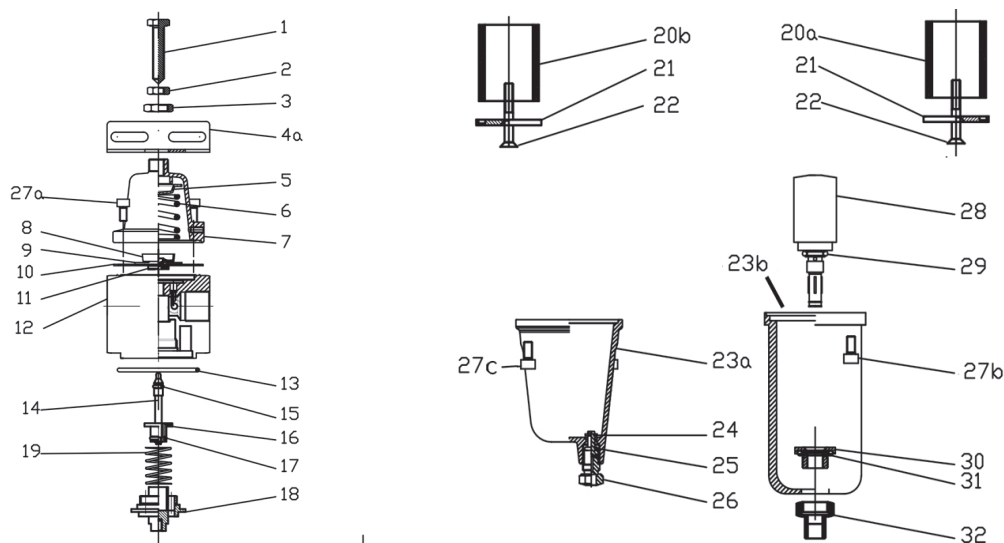
***Special version in HNBR (WT -60°C + 90°C)**

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

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

Product exploded view

Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BRACKET NUT	DADO STAFFA
4a	1	BRACKET	STAFFA
5	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
6	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
7	1	BONNET	TAZZA SUPERIORE
8	1	LOWER SPRING GUIDE	GUIDA MOLLA INFERIORE
9	1	LOWER SPRING RESET	RESET MOLLA INFERIORE
10	1	DIAPHRAGM	DIAFRAMMA
11	1	VALVE SEAT	SEDE VALVOLA
12	1	BODY	CORPO
13	1	O-RING	O-RING
14	1	VALVE STEM	CORPO VALVOLA
15	1	O'RING VALVE STEM	O'RING CORPO VALVOLA
16	1	VALVE	VALVOLA
17	1	O'RING VALVE	O'RING VALVOLA
18	1	FILTER ELEMENT SUPPORT	SUPPORTO ELE. FILTRANTE
19	1	VALVE SPRING	MOLLA VALVOLA
20a	1	FILTER ELEMENT 5 MICRON	SUPPORTO ELE. FILTRANTE 5 MIC
20b	1	FILTER ELEMENT 25 MICRON	SUPPORTO ELE. FILTRANTE 25 MIC
21	1	FILTER ELEMENT PLUG	FONDELLO ELEMNTE FILTRANTE
22	1	SCREW M5X30	VITE M5X30
23a	1	MANUAL DRAIN BOLW	TAZZA SCARICO MANUALE
23b	1	AUTOMATIC DRAIN BOLW	TAZZA SCARICO AUTOMATICO
24	1	BENZIN	ANELLO BENZIN
25	1	O'RING DRAIN	O'RING DRAIN
26	1	MANUAL DRAIN	SCARICO MANUALE
27a	4	SCREW M5X10	VITI M5X10
27b	4	SCREW AUTO DRAIN M5X16	VITI SCARICO AUTO M5X16
27c	4	SCREW MAN DRAIN M5X10	VITI SCARICO MANUALE M5X10
28	1	AUTOMATIC DRAIN	SCARICO AUTOMATICO
29	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
30	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO
31	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
32	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO

Overall dimension

Dimensioni di ingombro

FR06 A = 3/8"

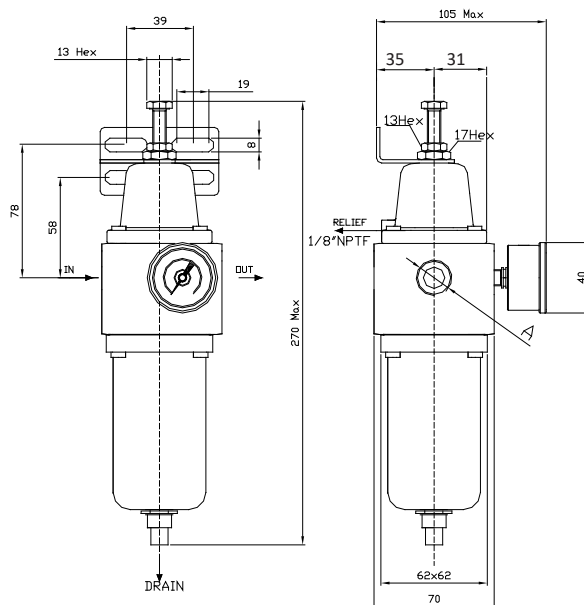
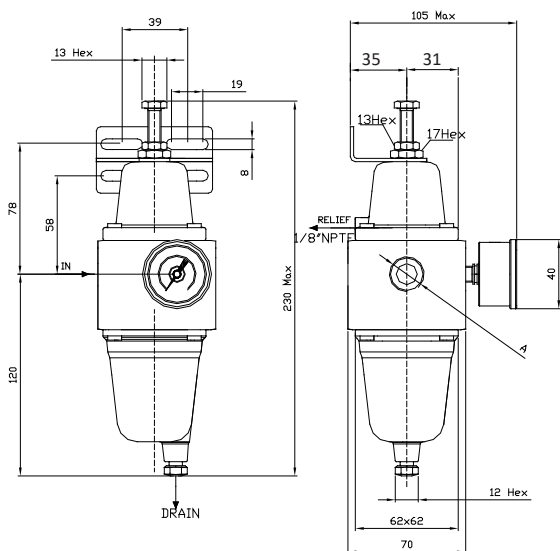
FR08 A = 1/2"

Manual drain

Scarico manuale

Automatic drain

Scarico automatico



Flow characteristics

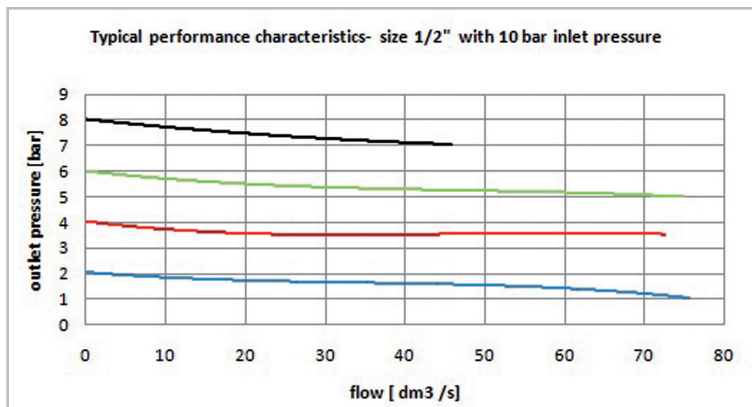
Caratteristiche di portata

Note for automatic drain:

- max inlet pressure 16bar
- not recommended for $T < 2^{\circ}\text{C}$

Nota per scarico automatico:

- massima pressione di utilizzo 16bar
- non raccomandato per $T < 2^{\circ}\text{C}$



Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	K-FR08-*-*SS-***
Pressure gauge DN40mm, all inox, Bar+psi+kpa range / Manometro DN40mm, tutto inox, scala Bar+psi+kpa	0-2,5 bar MBS6P4S2PN04 0-4bar MBS6P4S2PN05 0-10bar MBS6P4S2PN07
Bracket /Staffa	SQ-FR04
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

** Refers to relieving options: 0→Relieving 5→Non Relieving

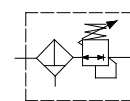
*** Refers to seals type: FK→FKM NB→NBR LT→EPDM FL→FVMQ HN→HNBR

AISI316L 3/4" - 1"NPT instrument filter regulator – FR serie

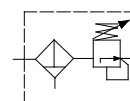
Filtro regolatore da 3/4" – 1"NPT in AISI316L – serie FR

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
-  &  approved / IP66 / SIL - IEC 61508 

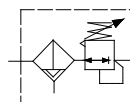
- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- ATEX 2014/34/UE  II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X
- Approvato  ed  / IP66 / SIL - IEC 61508 



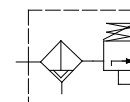
Manual Drain Relieving



Manual Drain Non Relieving



Automatic Drain Relieving



Automatic Drain Non Relieving

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/4"-1" NPT
Gauge Connection Connessione manometro	1/4"NPT (1/8"NPT option)
Filtering element Elemento filtrante	5, 25, 40 micron in st. st. 316
Max inlet pressure / Pressione massima di ingresso	30bar (16bar automatic drain version)
Drain valve/ Scarico condensa	Manual or automatic
Flow rate (@10bar inlet, 6bar regulated, delta P=1bar)/ Portata	11500dm3/min Cv=11.5
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Regulated pressure Pressioni regolate	0.2/2, 0.2/4, 0.4/8, 0.4/10, 0.4/12bar

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

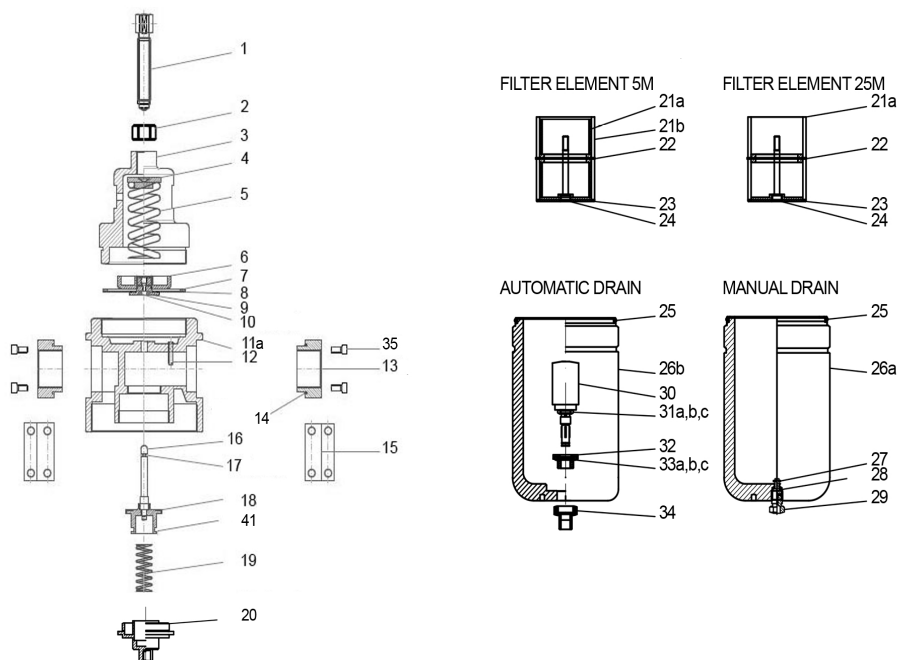
*Special version in HNBR (WT -60°C + 90°C)

It provides excellent regulation and filtering for a wide range of applications. Rugged and corrosion-resistant – made of 316L stainless steel / Permette un'accurata regolazione e filtraggio per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – costruito in acciaio inossidabile 316

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

Product exploded view

Esploso del prodotto



Pos.	Q.ty	Description	Descrizione
1	1	ADJUSTMENT SCREW	VITE DI REGOLAZIONE
2	1	LOCK ADJUSTMENT NUT	DADO FISSAGGIO REGOLAZIONE
3	1	BONNET	TAZZA SUPERIORE
4	1	UPPER SPRING SEAT	SEDE SUPERIORE MOLLA
5	1	ADJUSTMENT SPRING	MOLLA DI REGOLAZIONE
6	1	LOWER SPRING RESET	RESET INFERIORE MOLLA
7	1	SLIP RING	SLIP RING
8	1	DIAPHRAGM	DIAFRAMMA
9	1	VALVE SEAT	SEDE VALVOLA
10	1	O'RING (ONLY FOR RELIEVING)	O'RING (SOLO PER RELIEVING)
11a	1	BODY	CORPO
12	1	SIPHON	SIFONE
13	2	CONNECTION	TERMINALI FILETTATI
14	2	O'RING	O'RING
15	2	BRACKET	STAFFA
16	1	VALVE STEM	CORPO VALVOLA
17	1	O'RING	O'RING
18	1	VALVE	VALVOLA
19	1	VALVE SPRING	MOLLA VALVOLA
20	1	FILTER ELEMENT SUPPORT	SUPPORTO ELE. FILTRANTE
21a	2	FILTER ELEMENT 5 MICRON	ELEMENTO FILTRANTE 5 MIC
21b	2	FILTER ELEMENT 25 MICRON	ELEMENTO FILTRANTE 25 MIC
22	1	FILTER ELEMENT RING	ANELLO ELEMENTO FILTRANTE
23	1	FILTER ELEMENT PLUG	FONDELLO ELEMENTO FILTRANTE
24	1	FILTER ELEMENT SCREW	VITE ELEMENTO FILTRANTE
25	1	O'RING BOWL	O'RING TAZZA
26a	1	MANUAL DRAIN BOWL	TAZZA SCARICO MANUALE
26b	1	AUTOMATIC DRAIN BOWL	TAZZA SCARICO AUTOMATICO
27	1	BENZIN	ANELLO BENZIN
28	1	O'RING DRAIN	O'RING DRAIN
29	1	MANUAL DRAIN	SCARICO MANUALE
30	1	AUTOMATIC DRAIN	SCARICO AUTOMATICO
31	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
32	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO
33	1	O'RING AUTO DRAIN	O'RING SCARICO AUTO
34	1	AUTOMATIC DRAIN SEAT	SEDE SCARICO AUTOMATICO
35	8	SCREW M5x16 DIN 912 A2	VITI M5X16
41	1	O'RING VALVE	O'RING

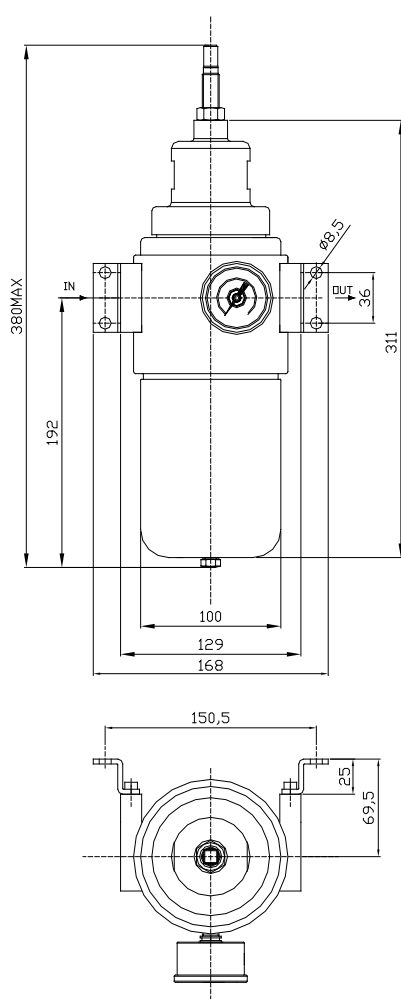
BT-FR16SS/C23B

Overall dimension

Dimensioni di ingombro

Manual drain

Scarico manuale

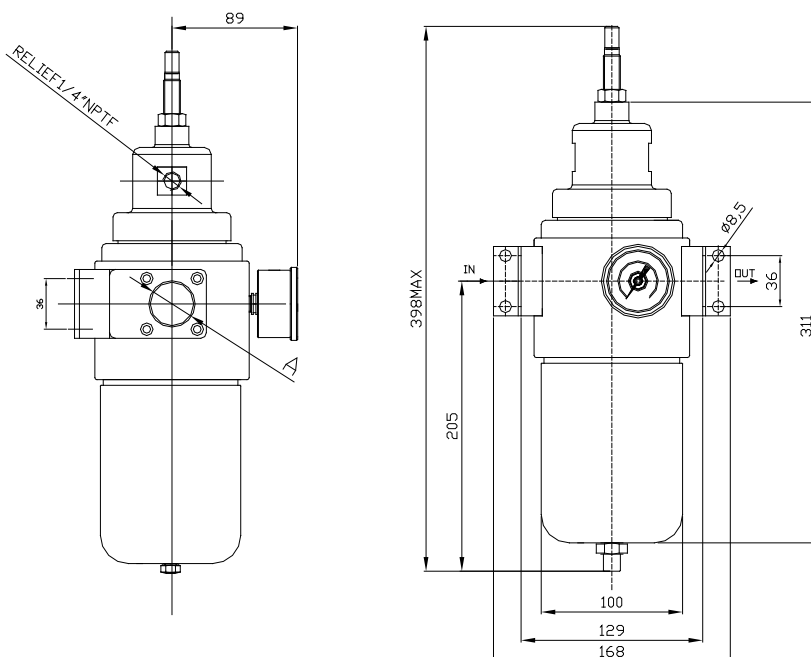


FR12 A = 3/4"

FR16 A = 1"

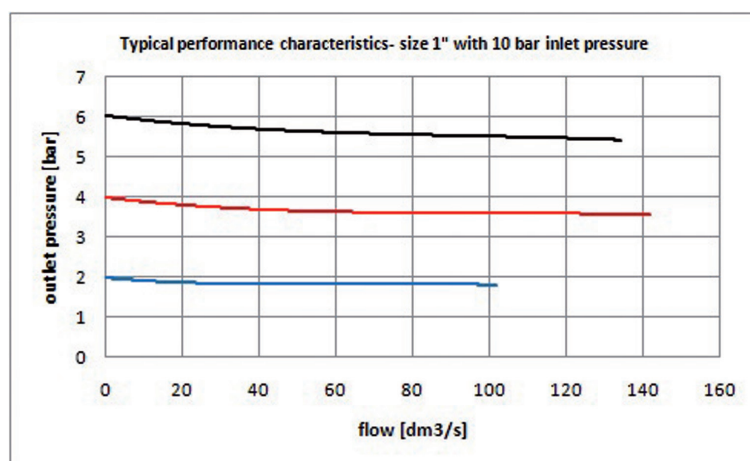
Automatic drain

Scarico automatico



Note for automatic drain / Nota per scarico automatico:

- max inlet pressure 16bar / massima pressione di utilizzo 16bar
- not recommended for $T < 2^{\circ}\text{C}$ / non raccomandato per $T < 2^{\circ}\text{C}$



Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	K-FR16-*-*-*SS-***
Pressure gauge DN40mm, all SS, Bar+psi+kpa range / Manometro DN40mm, tutto inox, scala Bar+psi+kpa	0-2,5 bar MBS6P4S2PN04 0-4bar MBS6P4S2PN05 0-10bar MBS6P4S2PN07
Bracket / Staffa	SQ-FR16
Anti-tamper kit / Kit anti-manomissione	KTAM04-08

* Refers to filter element option: 1→5 micron; 2→25 micron; 3→40 micron; 5→3 micron

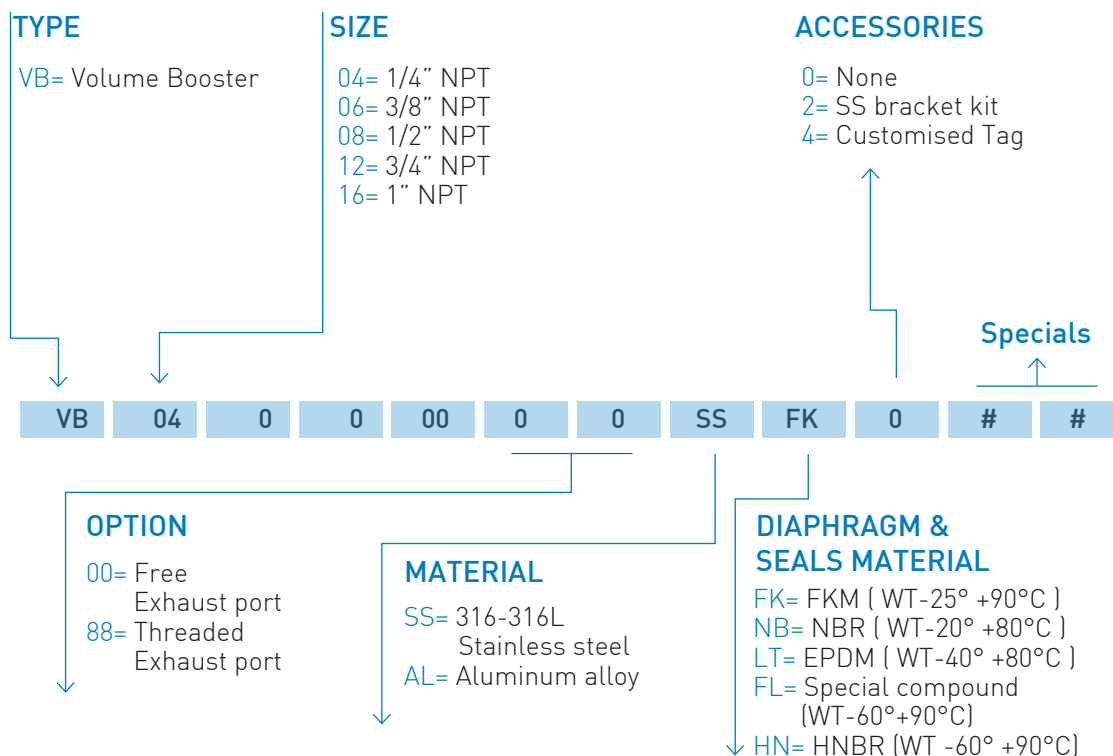
** Refers to relieving options: 0→Relieving 5→Non Relieving

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

Ordering information

Come ordinare

www.sitecna.eu



CODE EXAMPLES

VB 04 0 0 00 0 0 SS FK 0

1/4"NPT, SS316L, Volume booster, with FKM diaphragm & seals, Cv In - 2.20 exhaust- 2.40, WT -25°C to 90°C

Amplificatore di flusso da 1/4"NPT in AISI316L con diaframma e tenute in FKM, Cv In - 2.20 exhaust- 2.40, temperatura di lavoro da -25°C a +90°C

VB 08 0 0 00 8 8 AL LT 0

1/2"NPT, Epoxy painted aluminium alloy + SS304 or 316L, volume booster with FKM diaphragm & seals, threaded exhaust, Cv In/exhaust 2.80, WT -25°C to +90°C

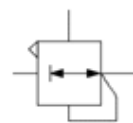
Amplificatore di flusso da 1/2"NPT in Lega di alluminio con verniciatura epossidica + AISI304-316L con diaframma e tenute in EPDM, Cv In/Exhaust 2.80, scarico filettato, temperatura di lavoro da -40°C a +80°C



Copper free aluminum alloy 1/4"-1/2"NPT volume booster – VB serie

Amplificatore di flusso da 1/4" -1/2"NPT in lega di alluminio esente rame – serie VB

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Integral by-pass 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 / IP66/ SIL 3 - IEC 61508 



- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Valvola di by-pass integrale
- 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  / IP66/ SIL 3 - IEC 61508 

Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Conessioni	1/4"-1/2" NPT
Signal Connection Connessione segnale	1/4"NPT
Max supply pressure Pressione massima di ingresso	10bar
Max signal/output pressure Pressione massima segnale/uscita	10bar
Flow rate (Cv)/Portata	1/4" - Input = 2.20; Exhaust = 2.40 1/2" - Input = 2.80; Exhaust = 2.80
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Linearity/Linearità	+/- 0.90 FS
In/Output pressure ratio Rapporto di pressione In/Out	1:1

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

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

It provides excellent regulation with high flow for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316 – Compact small package size – light weight / Permette una regolazione accurata con grandi portate per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito in lega di alluminio ed AISI304/316 – Dimensioni di ingombro ridotte – Leggero

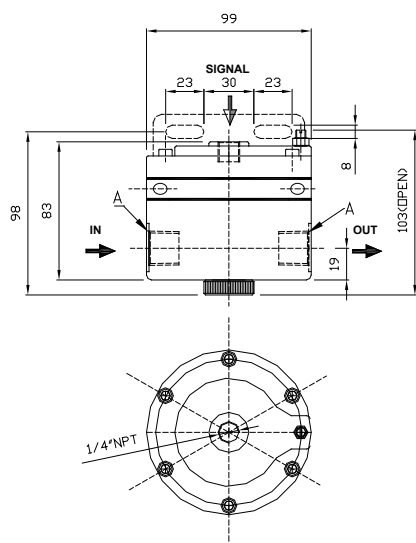
BUILDING MATERIALS	Materiali costruttivi
Body, spacer, top in epoxy painted copper free aluminum alloy	Corpo, distanziale, coperchio in lega di alluminio esente rame con verniciatura epossidica
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile

Overall dimension

Dimensioni di ingombro

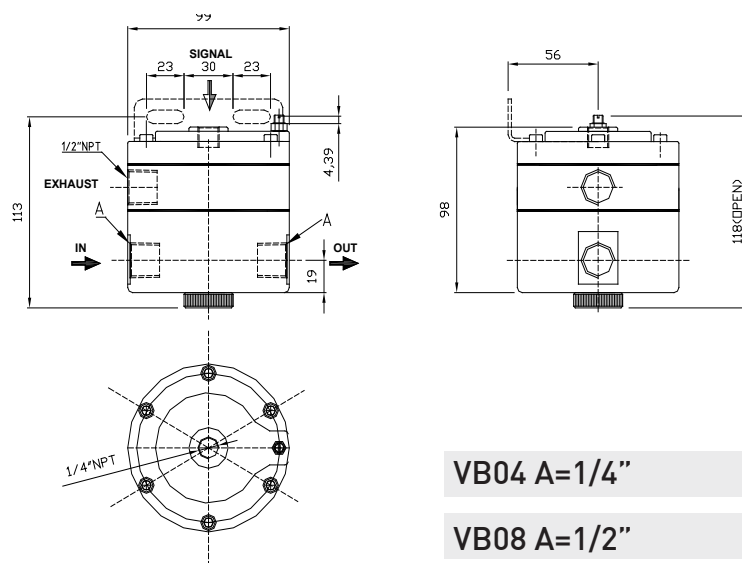
Free exhaust port

Scarico libero



Threaded exhaust port

Scarico convogliato



VB04 A=1/4"

VB08 A=1/2"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-VB08-* -AL-**
Bracket /Staff	C0607-031

* Refers to exhaust port: 00= free exhaust; 88 = threaded exhaust

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

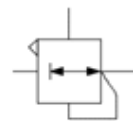
Copper free aluminum alloy 3/4"-1"NPT volume booster – VB serie

Amplificatore di flusso da 3/4" -1"NPT in lega di alluminio esente rame – serie VB

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Integral by-pass 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 / IP66/ SIL 3 - IEC 61508 

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Valvola di by-pass integrale
- 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  / IP66/ SIL 3 - IEC 61508 



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Conessioni	3/4"-1" NPT
Signal Connection Connessione segnale	1/4"NPT
Max supply pressure Pressione massima di ingresso	10bar
Max signal/output pressure Pressione massima segnale/uscita	10bar
Flow rate (Cv)/Portata	3/4" - Input = 5.60; Exhaust = 6.50 1" - Input = 8; Exhaust = 8
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Linearity/Linearità	+/- 1.00 FS
In/Output pressure ratio Rapporto di pressione In/Out	1:1

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

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

It provides excellent regulation with high flow for a wide range of applications. Rugged and corrosion-resistant – made of aluminum alloy and SS AISI304/316 - Compact small package size – light weight / Permette una regolazione accurata con grandi portate per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito in lega di alluminio ed AISI304/316 - Dimensioni di ingombro ridotte – Leggero

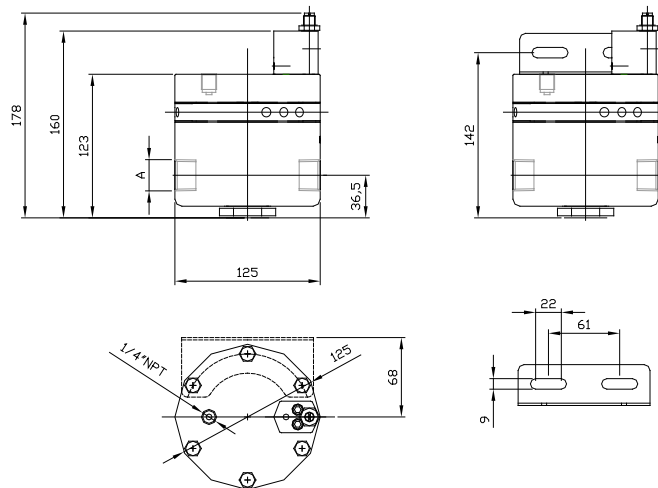
BUILDING MATERIALS	Materiali costruttivi
Body, spacer, top in epoxy painted copper free aluminum alloy	Corpo, distanziale, coperchio in lega di alluminio esente rame con verniciatura epossidica
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile

Overall dimension

Dimensioni di ingombro

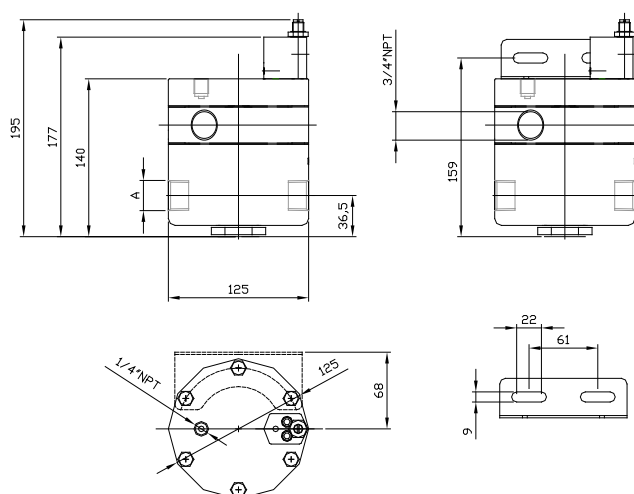
Free exhaust port

Scarico libero



Threaded exhaust port

Scarico convogliato



VB12 A=3/4"

VB16 A=1"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-VB16-*-AL-** [1"]
Bracket and lock nut / Staffa e Dado	C0740-40

* Refers to exhaust port: 00= free exhaust; 88 = threaded exhaust

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

BT-VB16AL/C22B

AISI316L 1/4"-1/2"NPT volume booster – VB serie

Amplificatore di flusso da 1/4" -1/2"NPT in AISI316L – serie VB

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Integral by-pass 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 / IP66/ SIL 3 - IEC 61508

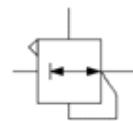


- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Valvola di by-pass integrale
- ATEX 2014/34/UE



II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X

- Approvato ed / IP66/ SIL 3 - IEC 61508



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Conessioni	1/4"-1/2" NPT
Signal Connection Connessione segnale	1/4"NPT
Max supply pressure Pressione massima di ingresso	10bar
Max signal/output pressure Pressione massima segnale/uscita	10bar
Flow rate (Cv)/Portata	1/4" - Input = 2.20; Exhaust = 2.40 1/2" - Input = 2.80; Exhaust = 2.80
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Linearity/Linearità	+/- 0.90 FS
In/Output pressure ratio Rapporto di pressione In/Out	1:1

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

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

It provides excellent regulation with high flow for a wide range of applications. Rugged and corrosion-resistant – made in SS316L - Compact small package size – light weight

Permette una regolazione accurata con grandi portate per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito completamente in AISI316L - Dimensioni di ingombro ridotte – Leggero

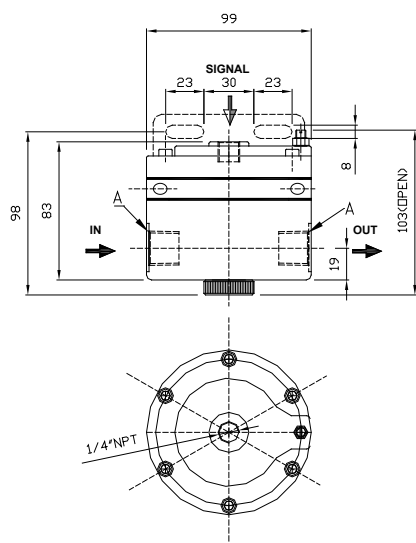
BUILDING MATERIALS	Materiali costruttivi
Body, spacer, top AISI316/316L stainless steel	Corpo, distanziale, coperchio in acciaio inossidabile AISI316/316L
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
Diaphragm & seals in elastomer	Diaframma e guarnizioni in elastomero

Overall dimension

Dimensioni di ingombro

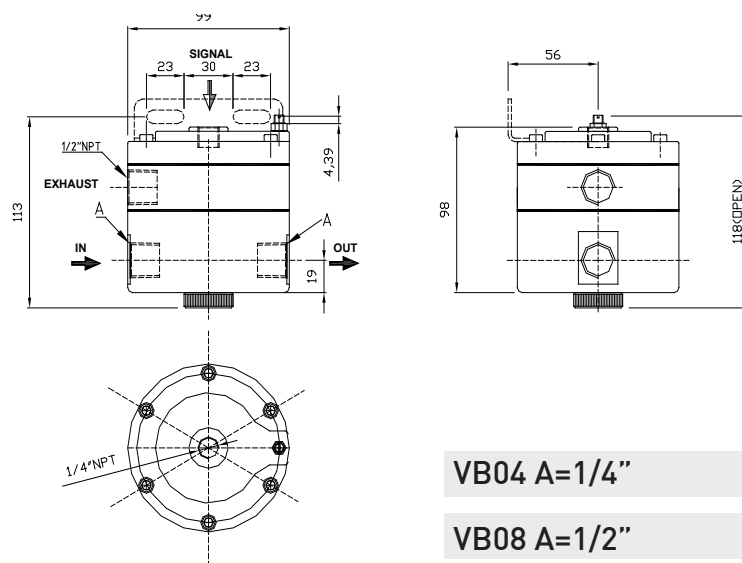
Free exhaust port

Scarico libero



Threaded exhaust port

Scarico convogliato



VB04 A=1/4"

VB08 A=1/2"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-VB08-*-SS-** [1/2"]
Bracket /Staffa	C0607-031

* Refers to exhaust port: 00= free exhaust; 88 = threaded exhaust

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

AISI316L 3/4"-1"NPT volume booster – VB serie

Amplificatore di flusso da 3/4" -1"NPT in AISI316L – serie VB

- Suitable for automation equipment to onshore, offshore, pharmaceutical, medical and food applications
- Full material traceability
- Excellent stability and repeatability
- Accurate adjustment and high flow capacity
- Integral by-pass valve
- ATEX 2014/34/UE



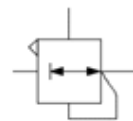
II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X

- &  approved / IP66/ SIL 3 - IEC 61508

- Adatto per automazione in applicazioni marine, petrolchimiche, farmaceutiche, medicali e alimentari
- Completa rintracciabilità dei materiali
- Eccellente stabilità e ripetibilità
- Precise regolazioni ed elevate portate
- Valvola di by-pass integrale
- ATEX 2014/34/UE
- Approvato  ed  / IP66/ SIL 3 - IEC 61508



II 2G Ex h IIC T6/T5 Gb X
II 2D Ex h IIIC T85°C/T100°C Db X



Media / Fluido	Compressed air, inert gases, sweet and sour gases
Port thread / Connessioni	3/4"-1" NPT
Signal Connection Connessione segnale	1/4"NPT
Max supply pressure Pressione massima di ingresso	10bar
Max signal/output pressure Pressione massima segnale/uscita	10bar
Flow rate (Cv)/Portata	3/4" - Input = 5.60; Exhaust = 6.50 1" - Input = 8; Exhaust = 8
Working temperature / Temperatura di esercizio	-20°C up to 80°C (NBR); -25°C up to 90°C (FKM); -40°C up to 80°C (EPDM); -60° up tp 90°C (FVMQ)*
Linearity/Linearità	+/- 1.00 FS
In/Output pressure ratio Rapporto di pressione In/Out	1:1

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

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

It provides excellent regulation with high flow for a wide range of applications. Rugged and corrosion-resistant – made in SS316L - Compact small package size – light weight

Permette una regolazione accurata con grandi portate per una vasta gamma di applicazioni. Robusto e resistente alla corrosione – Costruito completamente in AISI316L - Dimensioni di ingombro ridotte – Leggero

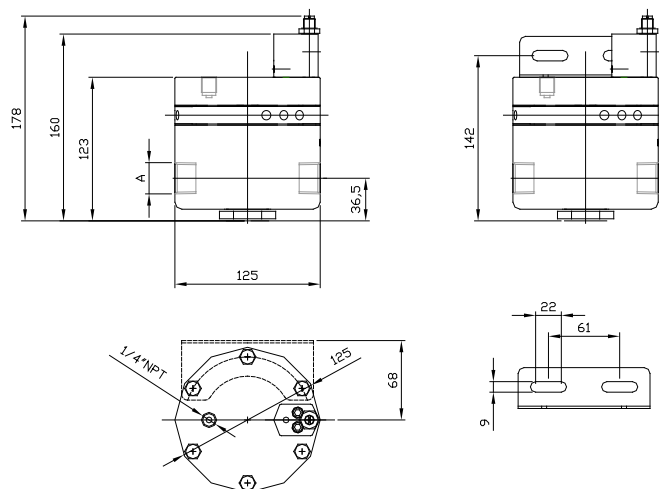
BUILDING MATERIALS	Materiali costruttivi
Body, spacer, top AISI316/316L stainless steel	Corpo, distanziale, coperchio in acciaio inossidabile AISI316/316L
Internals, bracket, lock and panel nuts, fixing screws in stainless steel	Vite di regolazione, staffa, dadi di bloccaggio e pannello, viti di fissaggio in acciaio inossidabile
Diaphragm & seals in elastomer	Diaframma e guarnizioni in elastomero

Overall dimension

Dimensioni di ingombro

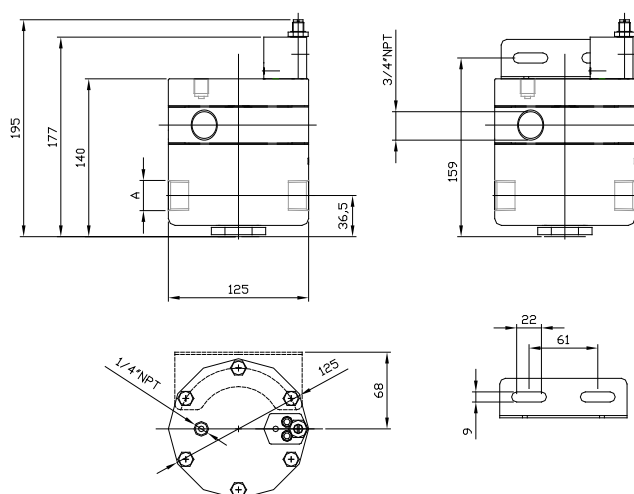
Free exhaust port

Scarico libero



Threaded exhaust port

Scarico convogliato



VB12 A=3/4"

VB16 A=1"

Accessories and repair kit

Accessori e ricambi

Maintenance kit / Kit manutenzione	Items K-VB16-* -SS-** [1"]
Bracket/Staffa	C0740-40

* Refers to exhaust port: 00= free exhaust; 88 = threaded exhaust

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