

NEW AIR Treatment Units

Vesta TU-3 Series

ALUMINIUM BODY AIR TREATMENT UNITS G1/4", 3/8", 1/2"
GRUPPI TRATTAMENTO ARIA CORPO IN ALLUMINIO G1/4", 3/8", 1/2"

Acetal polymer piston
and NBR lip-seals

*Pistoni in tecnopolimero,
guarnizioni a labbro in NBR*

Filtering options
from 40 to 0,03 µm

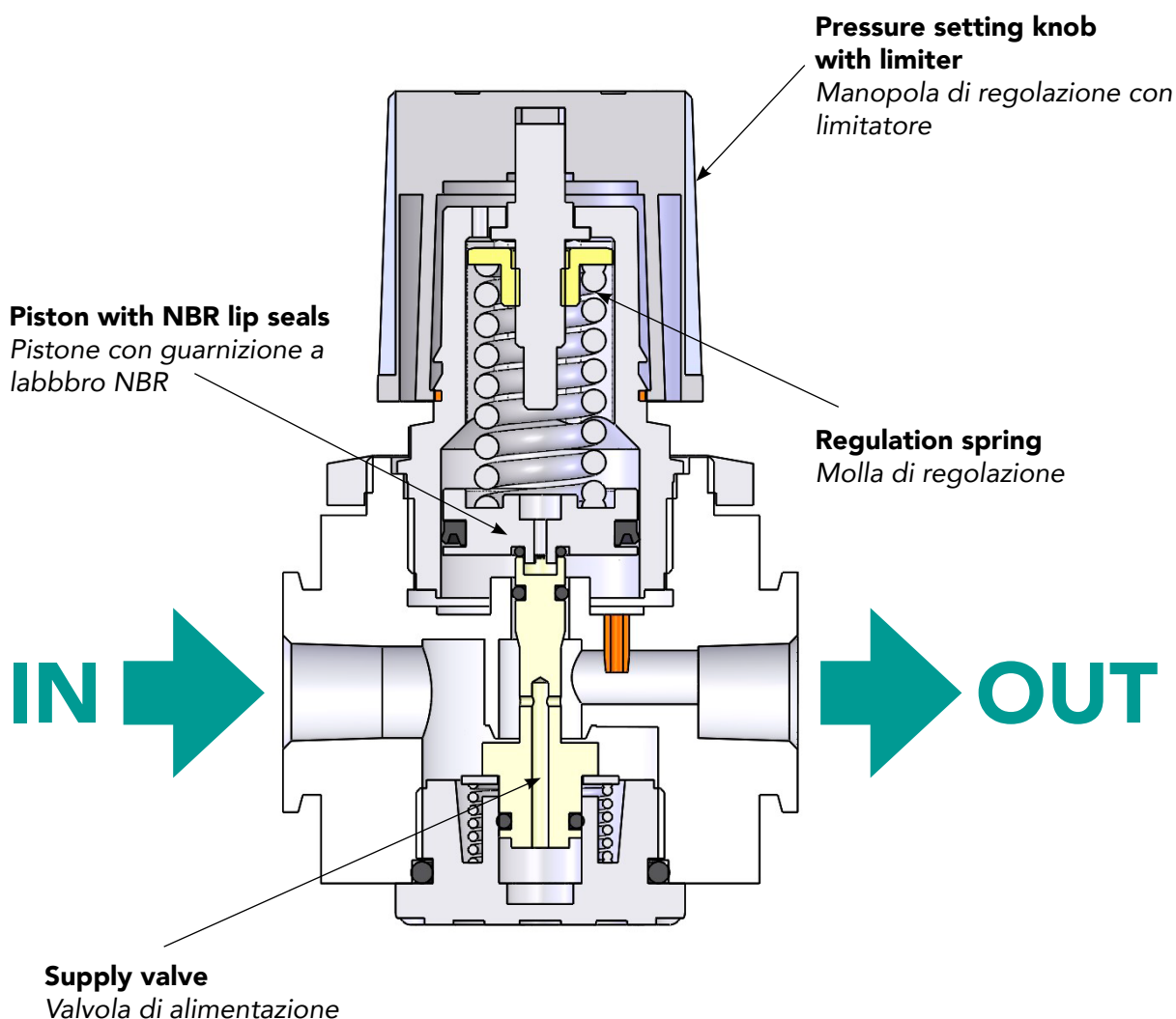
*Opzioni di filtrazione
da 40 a 0,03 µm*



CONSTRUCTION TECHNOLOGY / TECNOLOGIA DI COSTRUZIONE

Vesta TU series are conceived for durability and long use. The bodies for the whole series are in die-cast aluminium while bowls and setting knobs are made in special polymer for high resistance. For more durability, metal bowl versions with prismatic indicator are available for the TU-3, TU-4, TU-4H and TU-5 series. Finally in order to add more strength and better output control, pressure regulators are operated by an acetal polymer piston with NBR lip seals.

Le serie TU Vesta sono state progettate per durare a lungo. I corpi vengono realizzati in lega di alluminio, le tazze sono tutte in tecnopolimero ad alta resistenza e relativa protezione. Sono a disposizione anche le versioni con tazze metalliche provviste di indicatore di livello prismatico. Particolare accuratezza della regolazione viene ottenuta con sistemi a pistone con guarnizione a labbro che aumentano la precisione e la durata.



PRESSURE GAUGE OPTION / OPZIONI PER MANOMETRI

Regulators for TU-3, TU-4 and TU-5 series are assembled with gauge in the standard version. They can be ordered with pressure switch, or with a 1/8" port size adapter set to mount any kind of standard gauge or pressure switch.

I regolatori e i filtri regolatori della serie TU-3, TU-4, TU-5 vengono realizzati con manometri o pressostati digitali integrati. Possono essere sostituiti da un blocchetto filettato da 1/8".

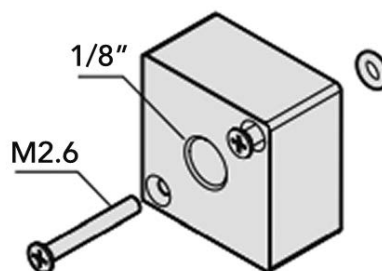
Standard gauge for TU series Manometro standard per serie TU



TU compatible pressure switch Pressostato digitale per serie TU



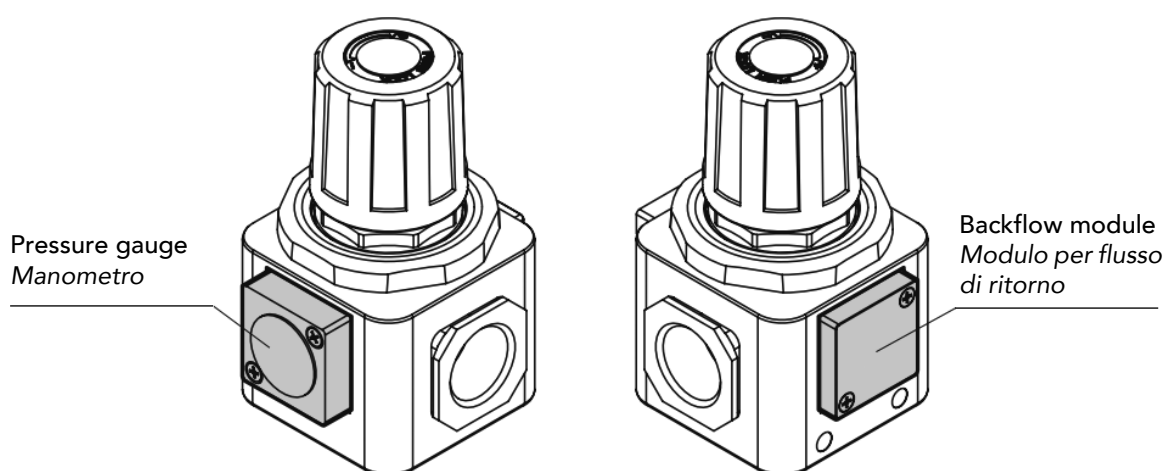
1/8" adapter set to mount any standard gauge or pressure switch. Adattatore 1/8" per assemblaggio di ogni manometro o pressostato digitale standard.



BACKFLOW FUNCTION OPTION / OPZIONE FLUSSO DI RITORNO

Regulators for TU series can be ordered with backflow function: in this assembly the regulator is equipped with a special valve that opens when air supply is cut off, exhausting the back pressure from the IN port, allowing a full reverse flow.

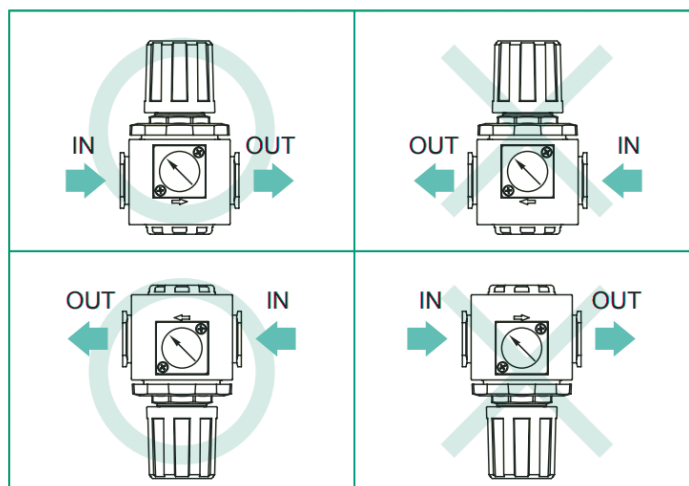
Questi regolatori possono essere inseriti tra valvola e cilindro. L'aria in scarico non passa attraverso il regolatore, permettendo una portata elevata.



INSTALLATION / INSTALLAZIONE

When choosing the flow direction, the backflow module can not be exchanged with the gauge.

Quando si decide la direzione del flusso, il modulo di backflow non può essere invertito con il manometro.



METAL BOWL / TAZZA DI METALLO

Filtering elements and lubricators of the TU-3, TU-4 and TU-5 series can be ordered with metal bowls, to provide better resistance and strength, and resist to higher pressures (see TU-4H series with 0-20 Bar regulation). Metal bowls are equipped with prismatic visual indicators. Sizes and dimensions of the metal bowl cases are the same of those standard.

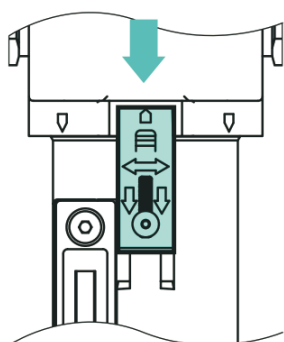
I componenti della serie TU-3, TU-4 e TU-5 possono essere ordinati con tazze in metallo, per avere maggiore resistenza agli urti, mentre la serie TU-4H permette una regolazione di pressione da 0 a 20 Bar.



INSTALLATION / INSTALLAZIONE

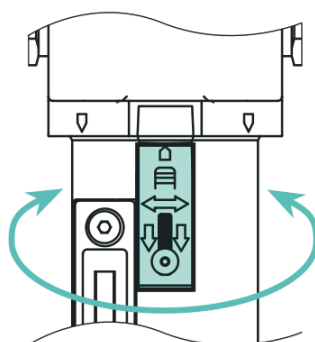
Before assembling or disassembling the bowl, push the lock plate down to the end, and confirm that it is detached from the body then rotate the bowl, otherwise the lock plate will be deformed or the body will be scratched.

Prima di assemblare o togliere la tazza, spingere verso il basso la chiusura di plastica per essere sicuri che sia staccata dal corpo, e solo in seguito ruotare, per evitare danni al corpo.

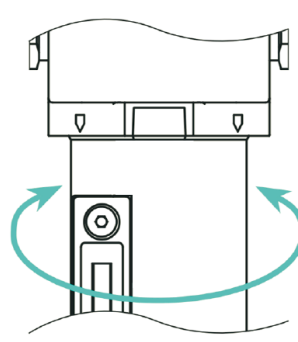


Locked bowl
Tazza bloccata

TU - 3



Unlocked bowl (rotate)
Tazza sbloccata (ruotare)



Push the bowl up to rotate
Spingere verso l'alto la tazza
per poterla ruotare

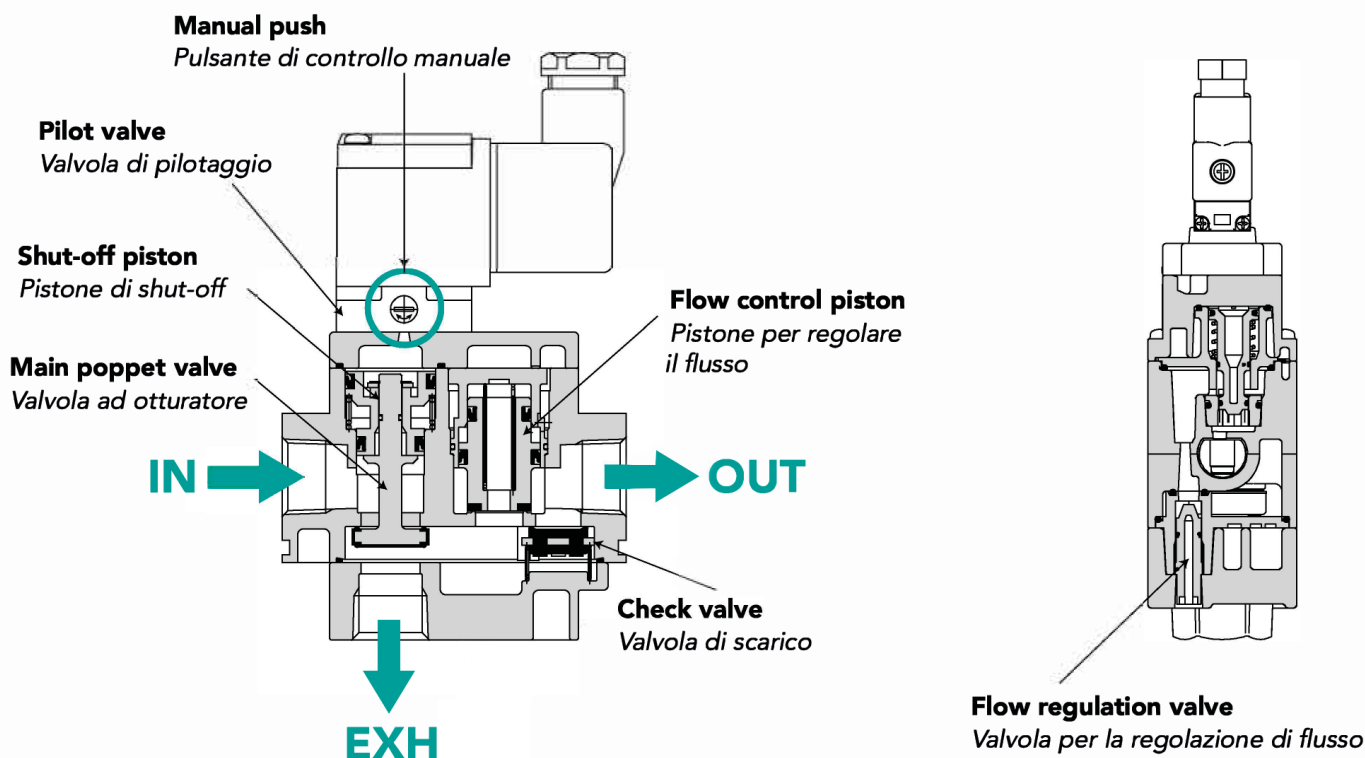
TU - 4

TU-VS DOUBLE FUNCTION / TU-VS CON DOPPIA FUNZIONE

The new TU-VS series combines two pneumatic functions into one convenient product: shut-off and slow-start functions. Available in size 2, 3 and 4 for different flow needs (from G1/4" to G1/2"), the shut-off function is controlled by a solenoid valve: when actuated, it opens the main supply valve closing the exhaust port and allowing passage of air. When not actuated or in the case of power cut (shut-off position) the main valve closes the input port, and connects the output port with the exhaust port. The check valve allows an extremely quick exhaust with maximum flow. The slow-start function is controlled by the manual flow regulator, allowing the output pressure/flow to slowly increase until the control piston switches, opening the full flow of air (at supply pressure). Manual regulation ranges from an immediate full pressure / flow output (-) to a slow time to reach full pressure / flow output (+).

La nuova serie TU-VS offre due funzioni pneumatiche in un unico più completo e conveniente prodotto: funzione di scarico rapido e funzione di avviamento progressivo.

Disponibile nelle taglie 2, 3 e 4 con diverse connessioni (dal G 1/4" al G 11/2"), la funzione di scarico rapido è controllata da una elettrovalvola: quando attuata, questa apre la valvola di alimentazione principale chiudendo il foro di scarico e consentendo il passaggio dell'aria. Quando non viene attivata o in caso di interruzione dell'alimentazione (posizione di scarico rapido) la valvola principale chiude la porta di ingresso e collega il foro di uscita con quello di scarico. La valvola di controllo consente uno scarico estremamente rapido con la massima portata. La funzione di avviamento progressivo è controllata dal regolatore di flusso manuale, consentendo alla pressione/flusso di uscita di aumentare lentamente fino a quando il pistone di comando sposta la sua posizione, aprendo completamente il passaggio del flusso d'aria (alla pressione di alimentazione). La regolazione manuale varia da un range massimo e immediato di pressione / flusso d'aria (-) a un avviamento lento che raggiunge progressivamente il valore massimo di pressione / flusso d'aria (+).



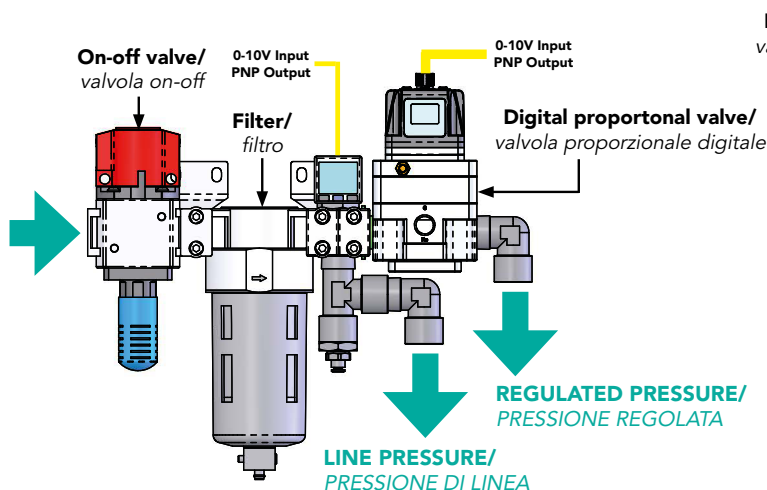
MODULARITY / MODULARITÀ

TU series are designed to offer a full range of options for filtering, regulation and lubrication of industrial compressed air, with a wide array of combinations among the different product families.

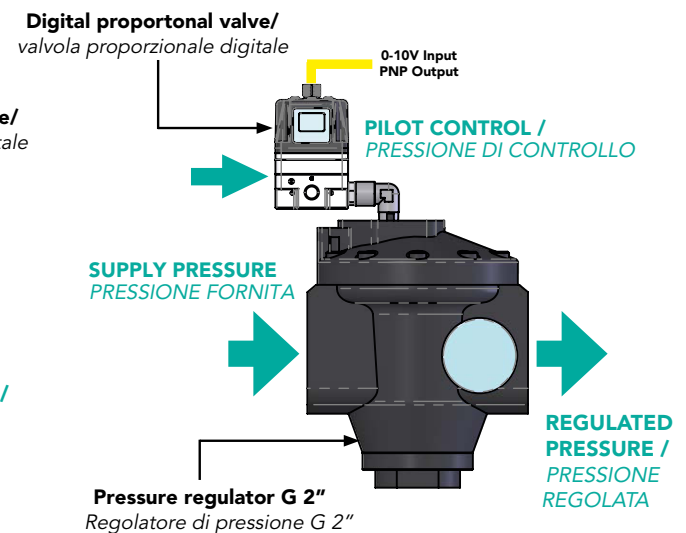
Groups can be easily assembled together to offer different advanced functions: **assembly example A** includes on-off manual control, filtering and multiple-pressure output. The group can be fully controlled by a PLC, with digital input (DPV series) and digital output (DPV and DPS series), for a precise visual and remote feedback on the different pressure outputs. For precision control with high flows, pilot regulators TU-R7 (with flow rate up to 60.000 NL/min) can be controlled by manual regulators, high-precision regulators (HPR series) or proportional valves (DPV series), for remote input and feedback, as in **assembly example B**.

Le serie TU sono progettate per offrire una gamma completa di opzioni di filtraggio, regolazione e lubrificazione dell'aria compressa industriale, con un'ampia gamma di combinazioni tra le diverse famiglie di prodotti.

I gruppi possono essere facilmente assemblati insieme per offrire un ampio range di funzioni avanzate: **l'esempio di assemblaggio A** include il controllo manuale on-off, il filtraggio e l'uscita a pressione multipla. Il gruppo può essere completamente controllato da un PLC, con ingresso digitale (serie DPV) e uscita digitale (serie DPV e DPS), per un preciso feedback visivo da remoto sulle diverse uscite di pressione. Per il controllo di precisione con portate elevate, i regolatori con funzione di pilotaggio TU-R1 (con portata fino a 60.000 NL/min) possono essere controllati da regolatori manuali, regolatori di alta precisione (serie HPR) o valvole proporzionali (serie DPV), per usufruire di un feedback visivo e da remoto, come nell'**esempio di montaggio B**.

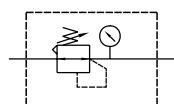


Assembly example A/
Esempio di assemblaggio A

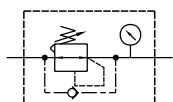


Assembly example B/
Esempio di assemblaggio B

TU - R3

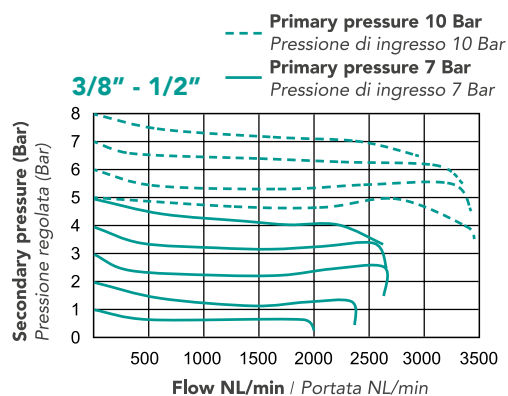
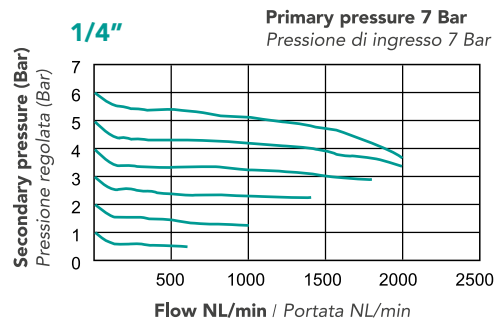
PRESSURE REGULATOR
REGOLATORE DI PRESSIONE

Standard / standard

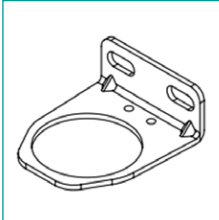


Backflow / flusso di ritorno

FLOW / PORTATA



Attachment / Accessori

L-type bracket (TU-BL3)
Staffa a L (TU-BL3)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

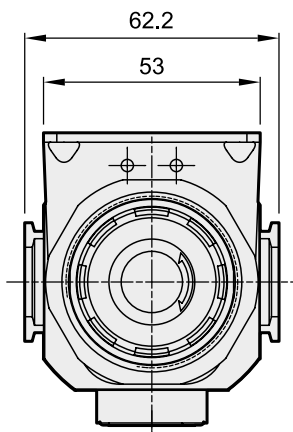
Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Attachment / Accessori	Pressure gauge, pressure switch, L-type bracket (TU-BL3) Manometro, pressostato digitale, staffa a L (TU-BL3)
Weight / Peso	270 g

ENCODING / CODIFICA

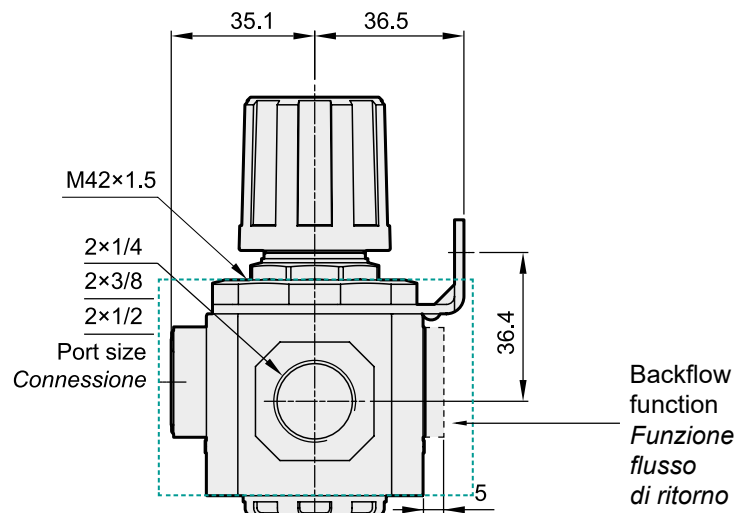
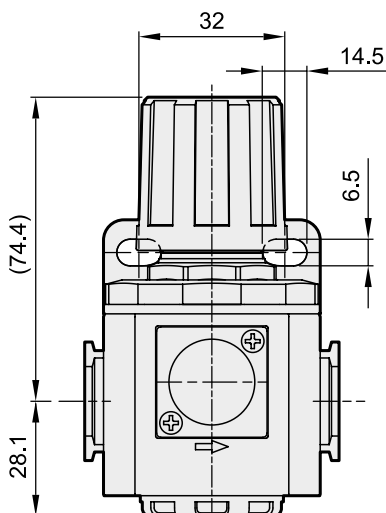
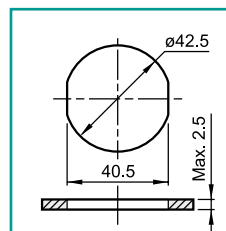
TU - R3 - -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 14 1/4" 38 3/8" 12 1/2"	Backflow function: <i>Funzione flusso di ritorno</i> S Standard B Backflow function	Exhaust mechanism: <i>Meccanismo di scarico:</i> R Relieving type con relieving N Non relieving type senza relieving	Pressure Gauge: / Manometro: G Integrated pressure gauge Manometro integrato A Gauge adapter set (TU-AS) Adattatore per manometro (TU-AS) E Pressure switch (EP41) Pressostato digitale (EP41)
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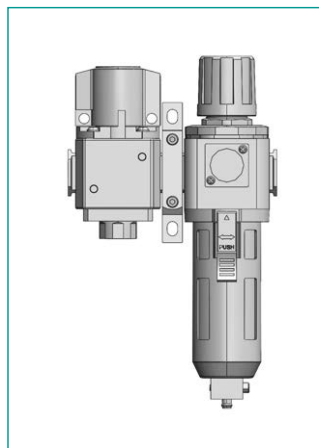
DIMENSIONS / DIMENSIONI



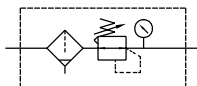
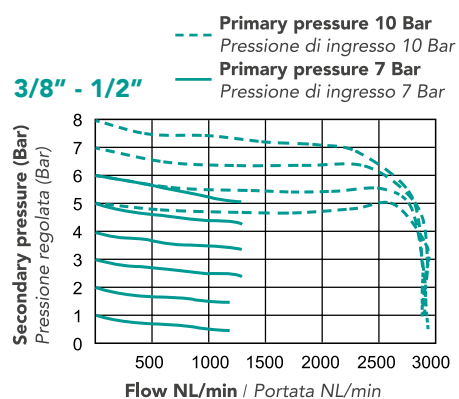
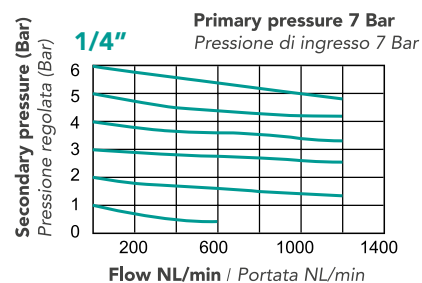
Panel mounting hole
Foro per montaggio a pannello



TU - FR3

FILTER AND PRESSURE REGULATOR
FILTRO E REGOLATORE DI PRESSIONE


Integrated ON OFF version
Versione con valvola ON OFF integrata

**FLOW / PORTATA****Attachment / Accessori**

L-type bracket (TU-BL3)
Staffa a L (TU-BL3)

**TECHNICAL FEATURES / CARATTERISTICHE TECNICHE**

Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Drain capacity / Capacità tazza	35 cm ³
Attachment / Accessori	Pressure gauge, pressure switch, L-type bracket (TU-BL3) Manometro, pressostato digitale, staffa a L (TU-BL3)
Weight / Peso	490 g

ENCODING / CODIFICA

TU - FR3 - ☐ - ☐ ☐ ☐

☐ - ☐

Model
Modello

Port size:
Connessione:
14 1/4"
38 3/8"
12 1/2"

Accessories / Accessori

ON OFF Valve / Valvola ON OFF
Blank No integrated valve
Senza valvola integrata
VM Integrated ON OFF valve
Valvola ON OFF integrata

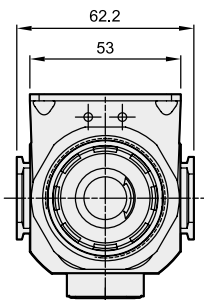
Filter element:
Elemento filtrante:
4 40 µm
5 5 µm

Bowl / Tazza:
P Protection case
Tazza protetta
M Metal bowl
Tazza di metallo

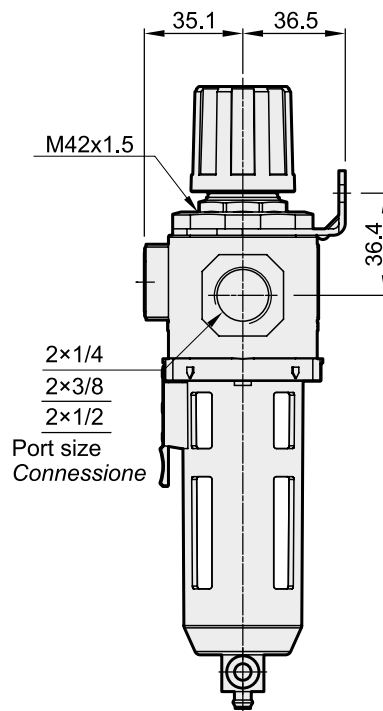
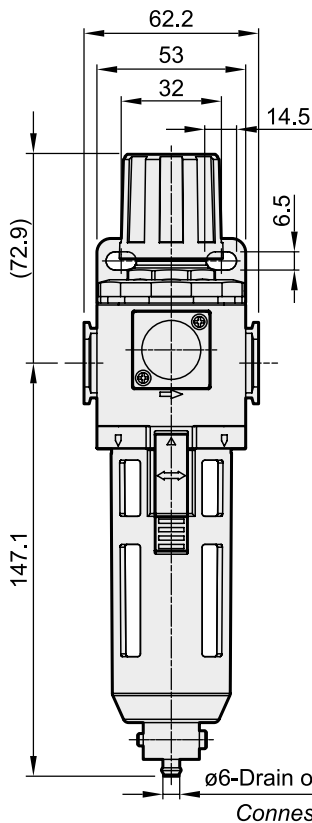
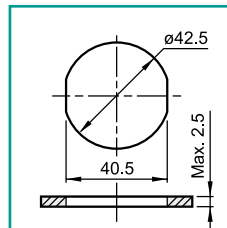
Pressure Gauge: / Manometro:
G Integrated pressure gauge
Manometro integrato
A Gauge adapter set (TU-AS)
Adattatore per manometro (TU-AS)
E Pressure switch (EP41)
Pressostato digitale (EP41)

Drain valve / Valvola di scarico
S Semi-auto drain
Scarico semiautomatico
D Auto drain
Scarico automatico

DIMENSIONS / DIMENSIONI

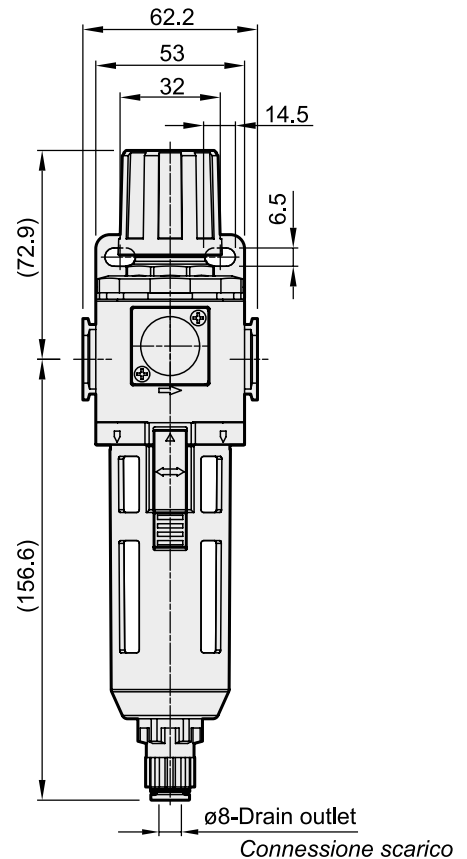


Panel mounting hole
Foro per montaggio a pannello

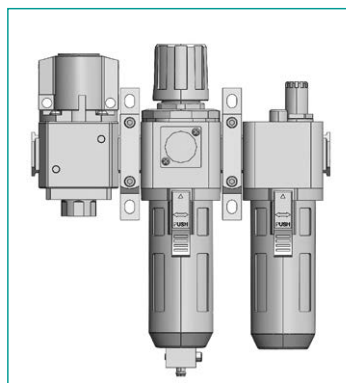


2x1/4
2x3/8
2x1/2
Port size
Connessione

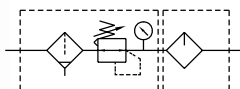
Auto drain
Scarico automatico



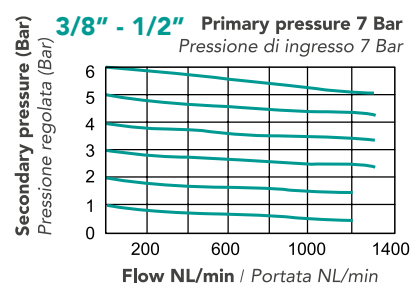
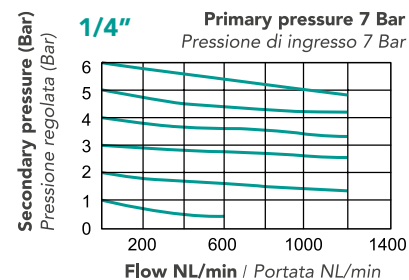
TU - FRL3

F.R.L UNIT
UNITÀ F.R.L.

Integrated ON OFF version
Versione con valvola ON OFF integrata



FLOW / PORTATA



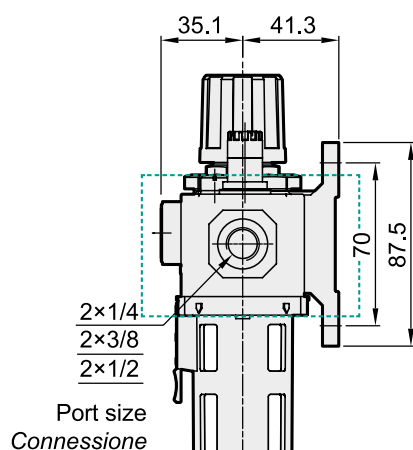
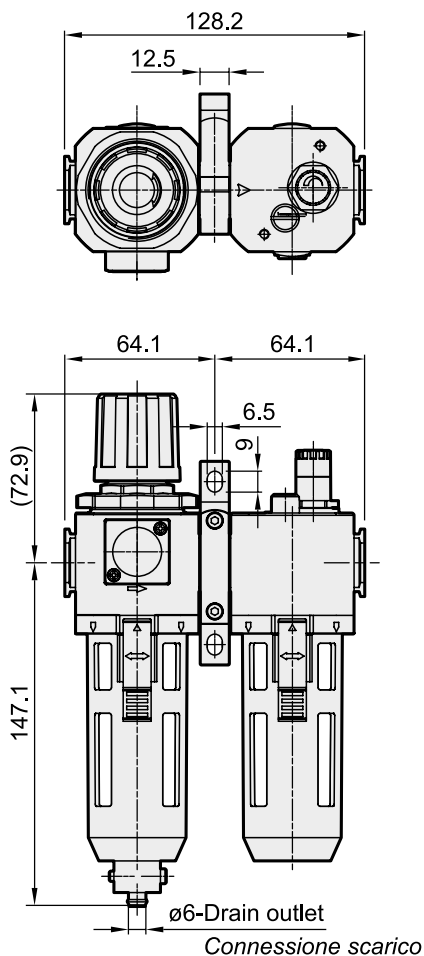
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Lubricating oil capacity / Capacità tazza olio	65 c.c.
Min. flow for oil drip Flusso minimo gocciolamento olio	50 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Attachment / Accessori	Pressure gauge, pressure switch Manometro, pressostato digitale
Weight / Peso	845 g

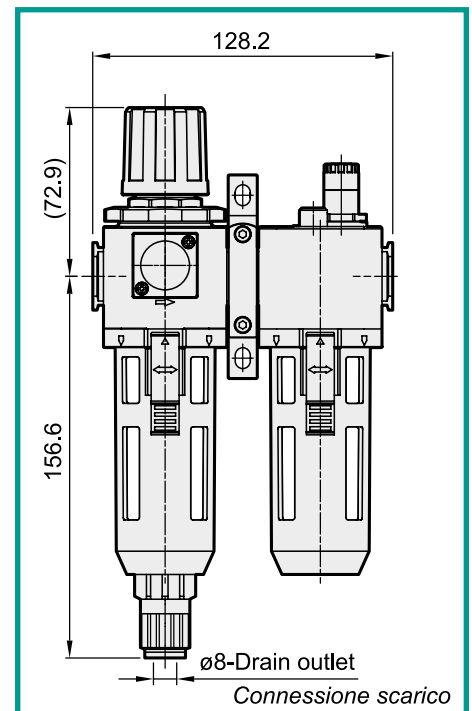
ENCODING / CODIFICA

TU - FRL3 -  -     - 		
Model <i>Modello</i>	Port size: <i>Connessione:</i> 14 1/4" 38 3/8" 12 1/2"	ON OFF Valve / Valvola ON OFF Blank No integrated valve <i>Senza valvola integrata</i> VM Integrated ON OFF valve <i>Valvola ON OFF integrata</i>
		Filter element: <i>Elemento filtrante:</i> 4 40 µm 5 5 µm
Accessories / Accessori		
Bowl / Tazza: P Protection case <i>Tazza protetta</i> M Metal bowl <i>Tazza di metallo</i>	Pressure Gauge: / Manometro: G Integrated pressure gauge <i>Manometro integrato</i> A Gauge adapter set (TU-AS) <i>Adattatore per manometro (TU-AS)</i> E Pressure switch (EP41) <i>Pressostato digitale (EP41)</i>	Drain valve / Valvola di scarico S Semi-auto drain <i>Scarico semiautomatico</i> D Auto drain <i>Scarico automatico</i>

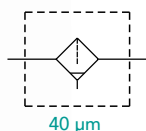
DIMENSIONS / DIMENSIONI



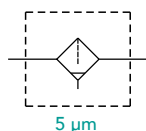
Auto drain valve
Scarico automatico



TU - F3

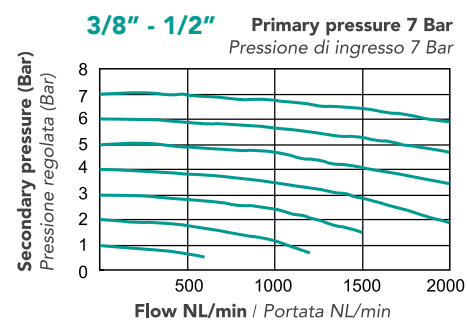
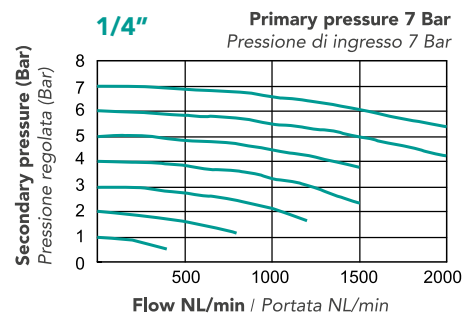
FILTER
FILTRO

40 µm

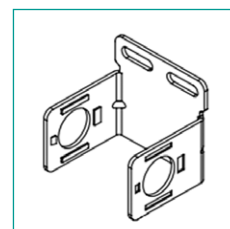


5 µm

FLOW / PORTATA



Attachment / Accessori

C-type bracket (TU-BC3)
Staffa a C (TU-BC3)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

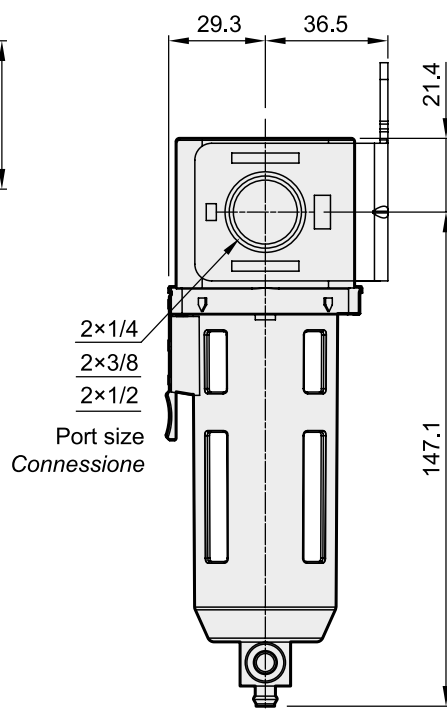
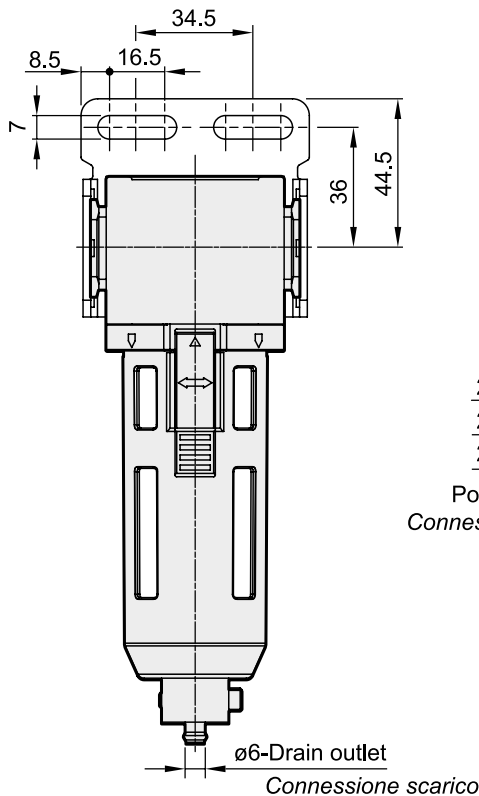
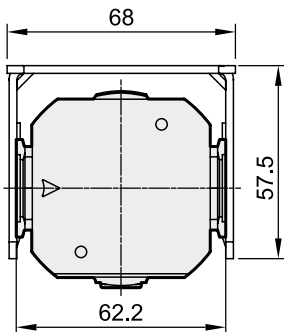
Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Drain capacity / Capacità tazza	35 cm ³
Weight / Peso	365 g

ENCODING / CODIFICA

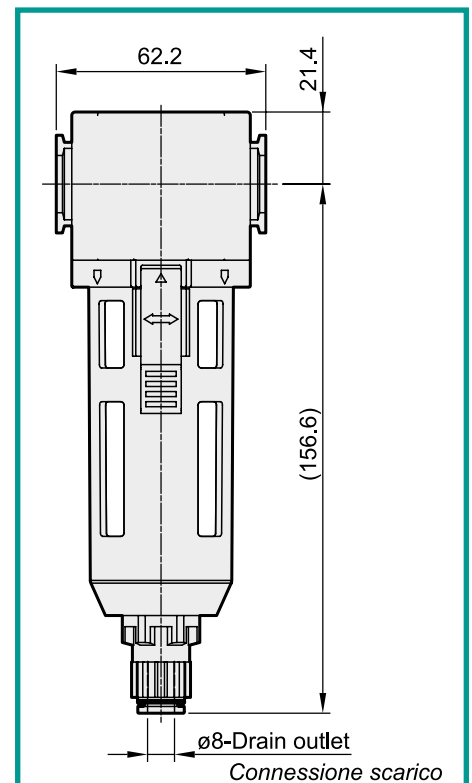
TU - F3 - -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 14 1/4" 38 3/8" 12 1/2"	Bowl /Tazza: P Protection case Tazza protetta M Metal bowl Tazza di metallo	Drain valve / Valvola di scarico S Semi-auto drain Scarico semiautomatico D Auto drain Scarico automatico	Filter element: <i>Elemento filtrante:</i> 4 40 µm 5 5 µm
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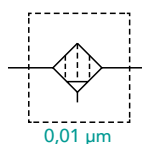
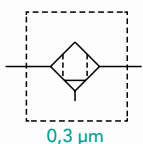
DIMENSIONS / DIMENSIONI



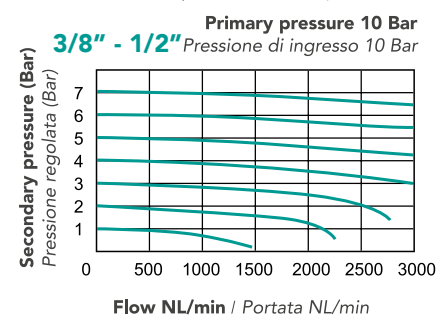
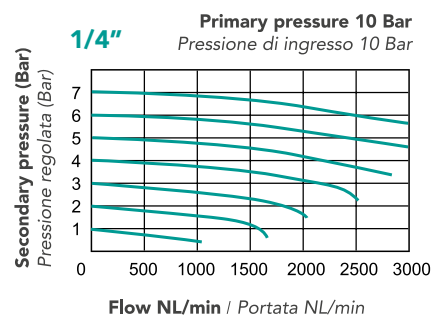
Auto drain
Scarico automatico



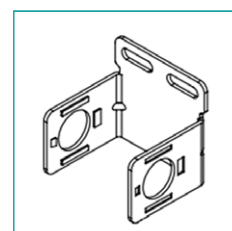
TU - MMF3

MICRO-MIST FILTER
FILTRO DISOLEATORE

FLOW / PORTATA



Attachment / Accessori

C-type bracket (TU-BC3)
Staffa a C (TU-BC3)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

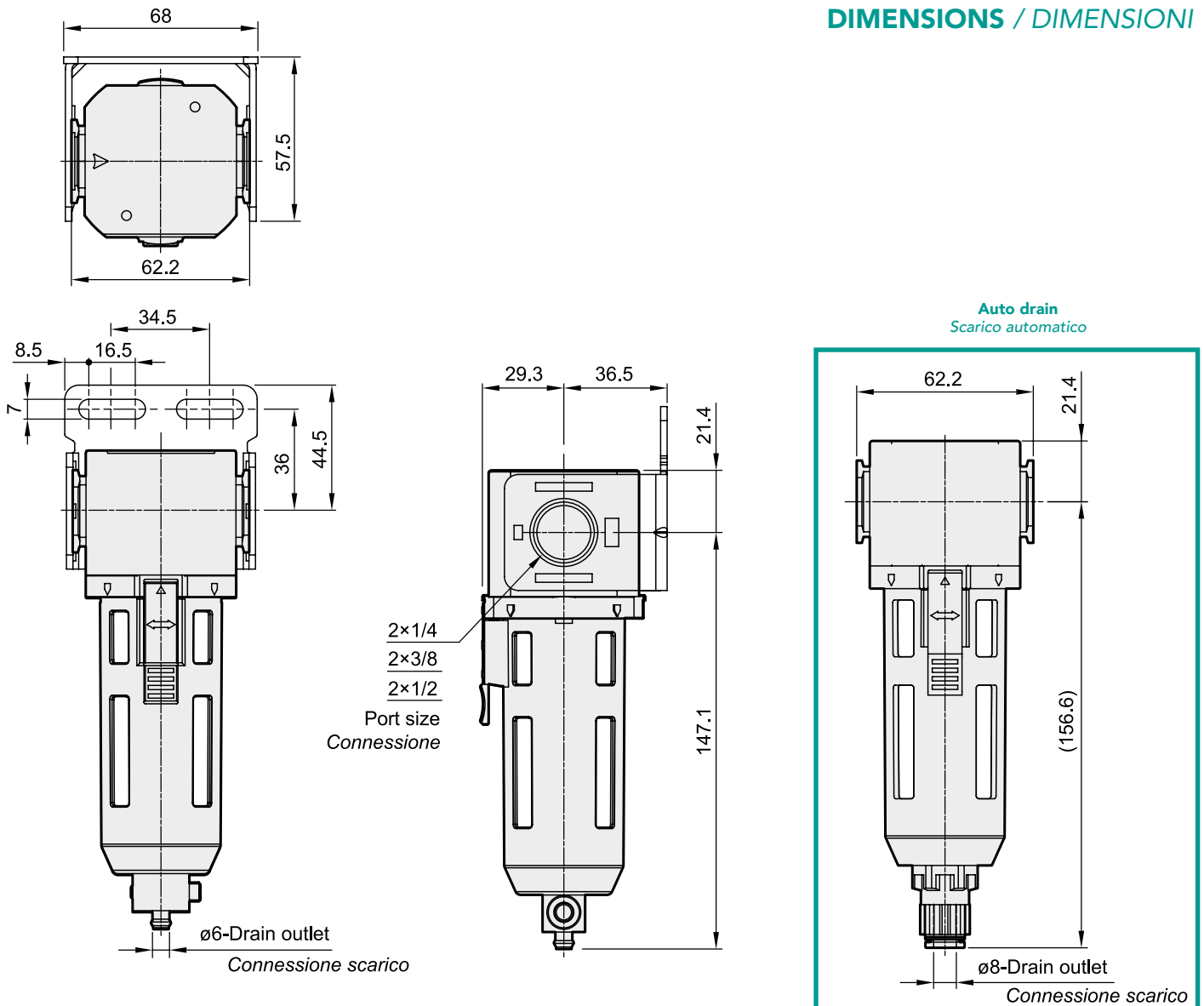
Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Version - Versione: 0,3 µm Version - Versione: 0,01 µm
Drain capacity / Capacità tazza	35 cm ³
Weight / Peso	365 g

ENCODING / CODIFICA

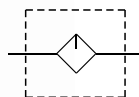
TU - MMF3 - -

Model Modello	Port size: Connessione: 14 1/4" 38 3/8" 12 1/2"	Bowl /Tazza: P Protection case Tazza di protezione M Metal bowl Tazza di metallo	Drain valve / Valvola di scarico S Semi-auto drain Scarico semiautomatico D Auto drain Scarico automatico	Filter element: Elemento filtrante: 3 0.3 µm 1 0.01 µm
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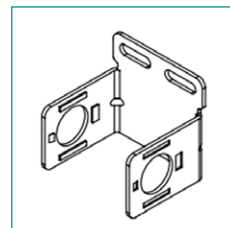
DIMENSIONS / DIMENSIONI



TU - L3

LUBRICATOR
LUBRIFICATORE

Attachment / Accessori

C-type bracket (TU-BC3)
Staffa a C (TU-BC3)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Lubricating oil capacity Capacità tazza olio	65 cc (L)
Min. flow for oil drip Flusso minimo gocciolamento olio	50 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Weight / Peso	345 g

Attachment / Accessori

C-type bracket (TU-BC3)
staffa a C (TU-BC3)

ENCODING / CODIFICA

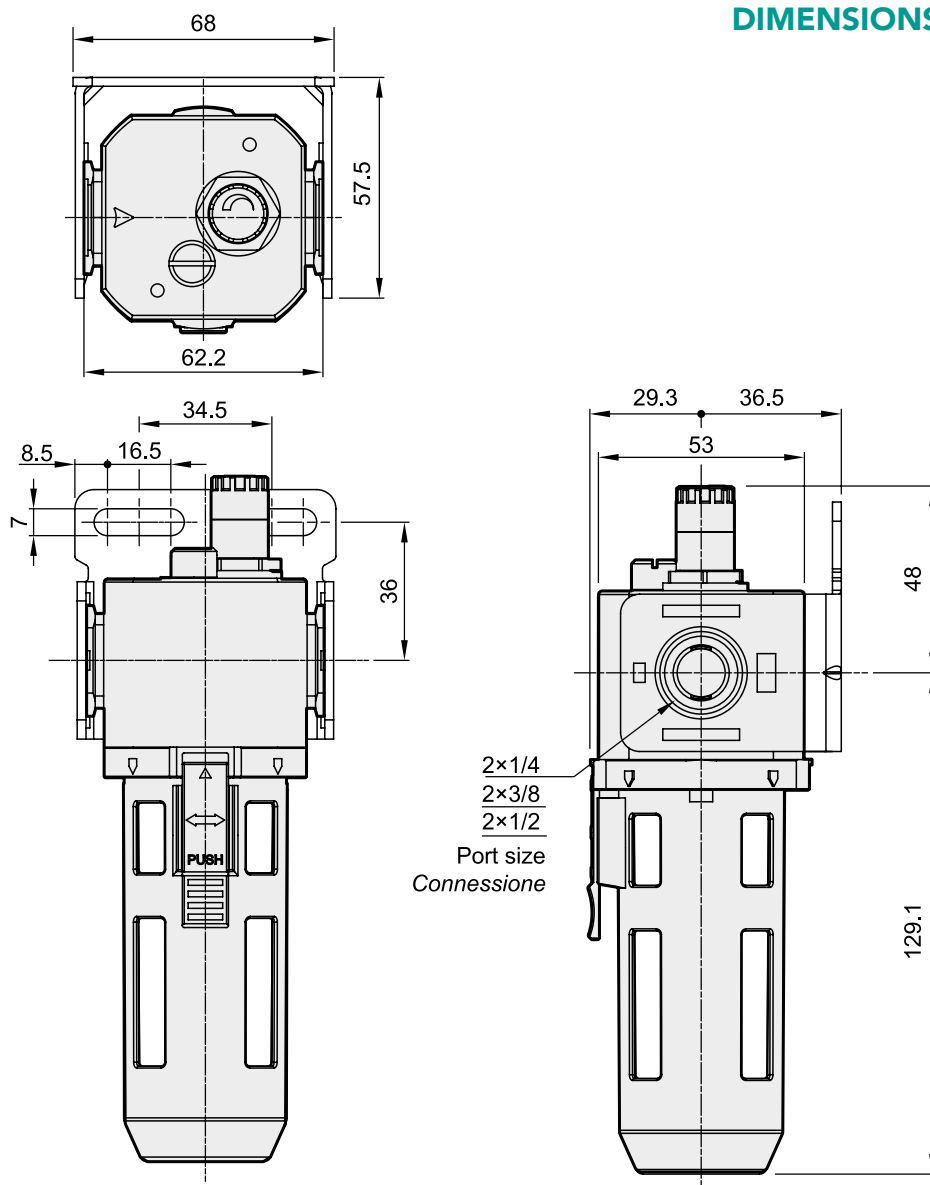
TU - L3 - -

Model
Modello

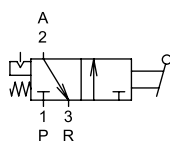
Port size:
Connessione:
14 1/4"
38 3/8"
12 1/2"

Bowl /Tazza:
P Protection case
Tazza protetta
M Metal bowl
Tazza di metallo

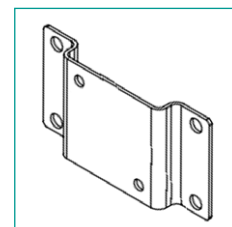
DIMENSIONS / DIMENSIONI



TU - VM3

ON OFF VALVE
VALVOLA ON OFF

Attachment / Accessori

Bracket (TU-BVM)
Staffa (TU-BVM)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1/4" G 3/8" G 1/2"
N° of port / N° di porti	3
N° of position / N° di posizione	2
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Option / Opzioni	Bracket (TU-BVM) Staffa (TU-BVM)
Weight / Peso	323 g

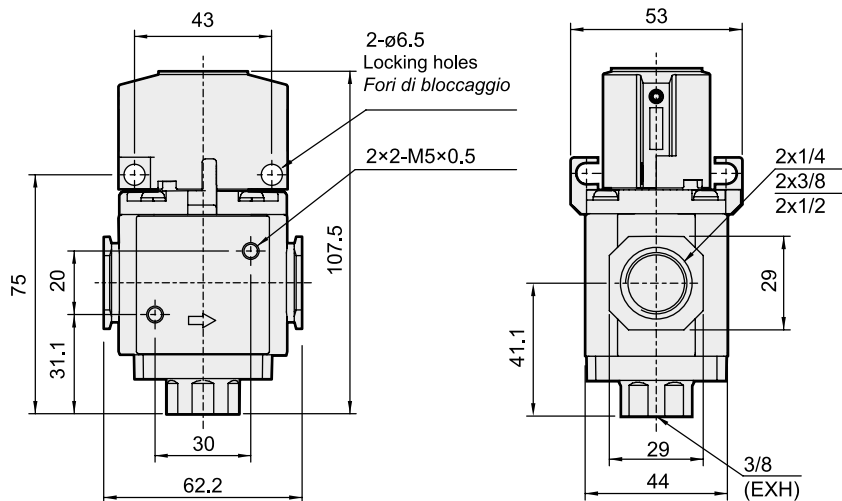
ENCODING / CODIFICA

TU - VM3 -

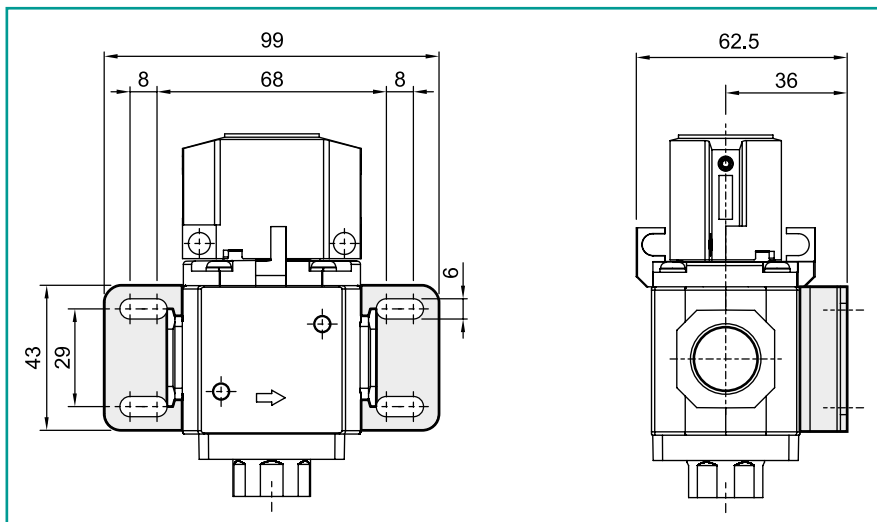
Model
Modello

Port size:
Connessione:
14 1/4"
38 3/8"
12 1/2"

DIMENSIONS / DIMENSIONI



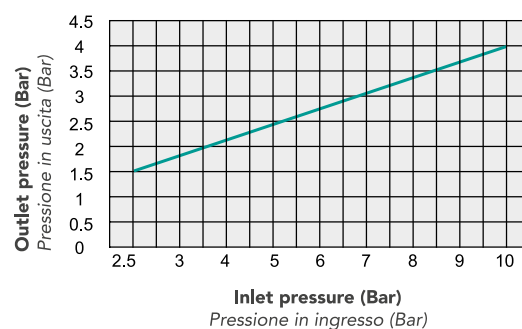
Accessories / Accessori



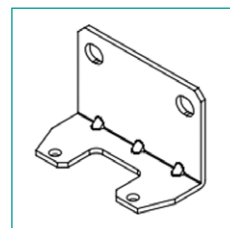
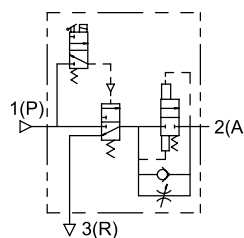
TU - VS3

SLOW START / SHUT-OFF VALVE
VALVOLA DI AVVIAMENTO PROGRESSIVO

FLOW / PORTATA

Piston B switching pressure (Close - Open)
Pressione di scambio (Chiuso - Aperto)

Attachment / Accessori

L-type bracket (TU-BVS3)
Staffa a L (TU-BVS3)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 3/8"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	2,5 ~ 10 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Option / Opzioni	Pressure gauge, L-type bracket (TU-BVS3) Manometro, staffa tipo L (TU-BVS3)
Weight / Peso	520 g

ENCODING / CODIFICA

TU - VS3 - -

Model
Modello

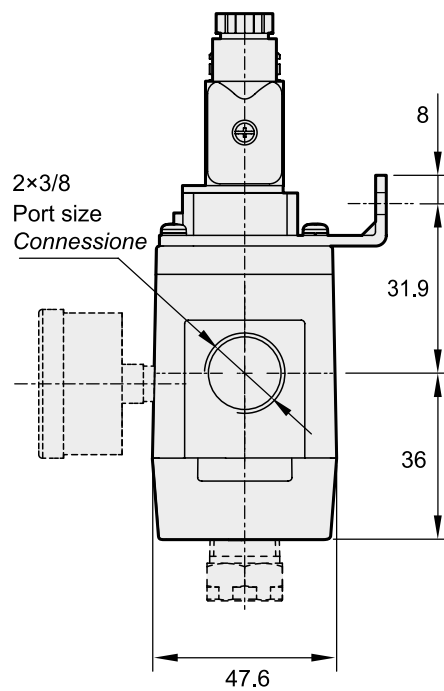
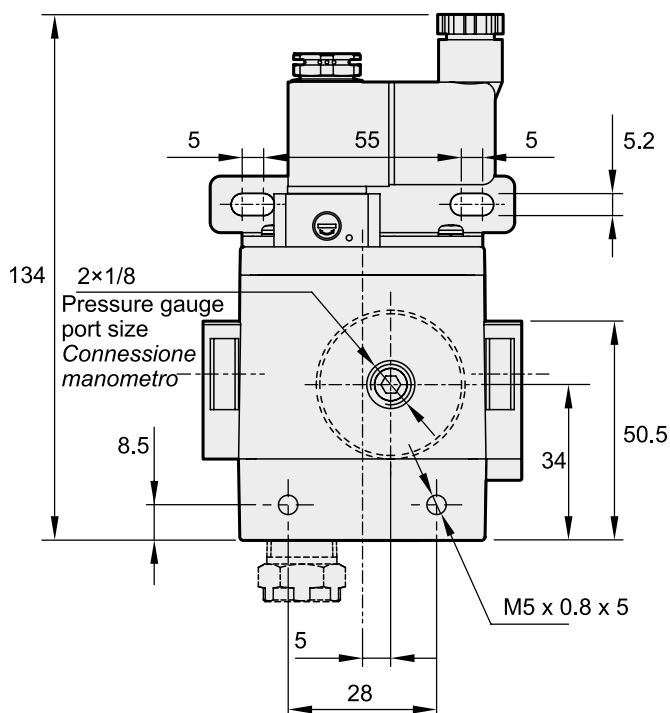
Port size:
Connezione:
38 3/8"

Coil
Bobina:
1 01200
2 02400
3 02450
4 11550
5 23050

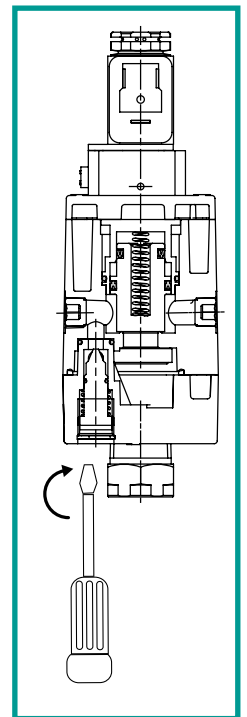
COIL / BOBINA

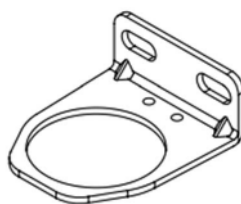
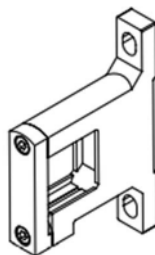
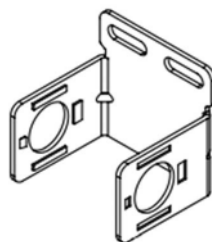
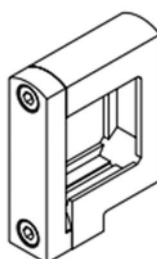
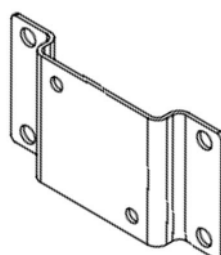
Code / Codice	Voltage / Tensione
MS01200	12 V DC
MS02400	24 V DC
MS02450	24 V 50/60Hz AC
MS11550	115 V 50/60Hz AC
MS23050	230 V 50/60Hz AC

DIMENSIONS / DIMENSIONI



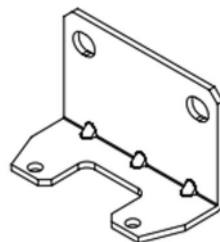
Slow-start regulation
Regolazione avviamento
progressivo



TU - BL3**L Bracket**
Staffa a L**TU - BT3****T Bracket and joiner**
Staffa a T a giunzione**TU - BC3****C Bracket for F, MMF**
Staffa a C per unità F, MMF e L**TU - BS3****Joiner unit**
Giunzione**TU - BVM****Bracket for TU - VM3**
Staffa per TU - VM3

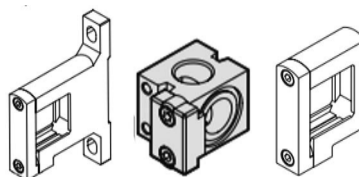
TU - BVS3

Bracket fot TU - VS3
Staffa per TU - VS3



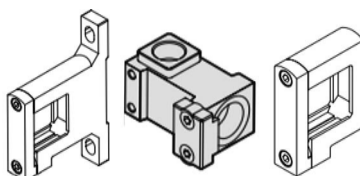
TU - T3 - 14, 38, 12

Module mounting bracket
Blocchetto di derivazione



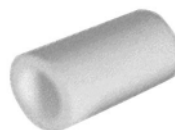
TU - K3 - 14, 38

Module bracket with check valve
*Blocchetto di derivazione
con valvola di non ritorno*



TU - FE3

40 micron filter
Filtro 40 micron



TU - FX3

5 micron filter
Filtro 5 micron

