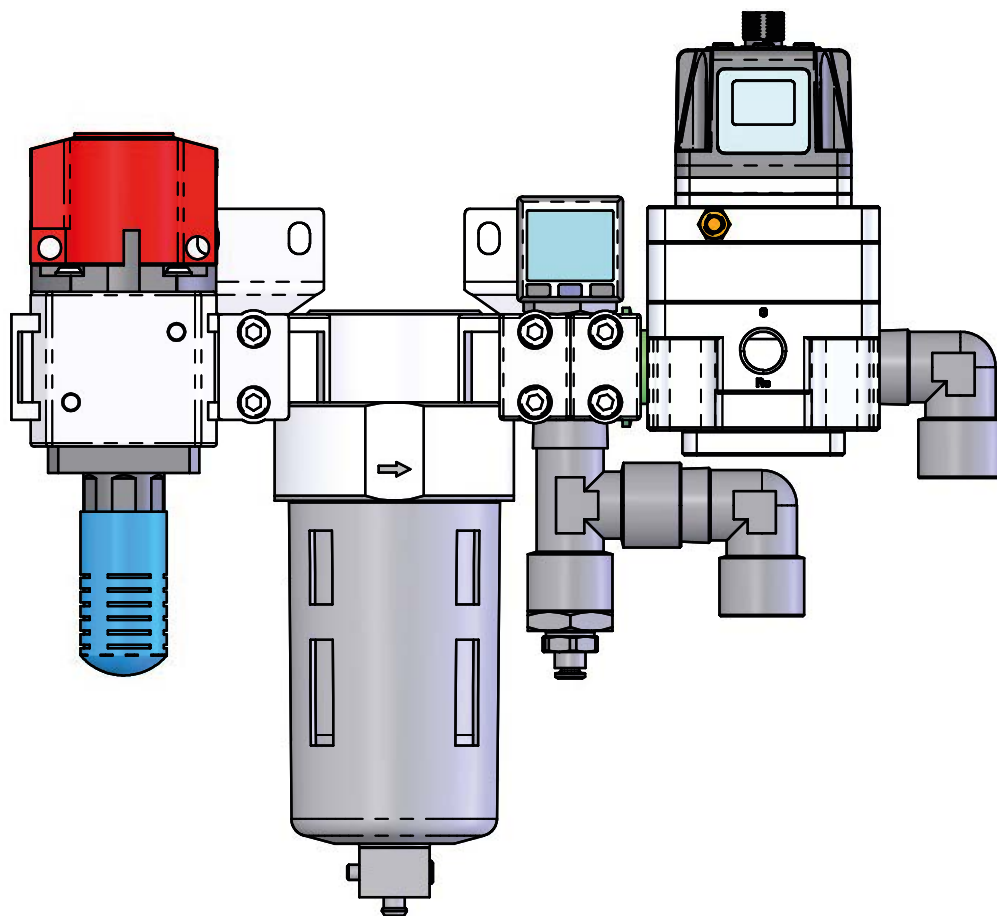


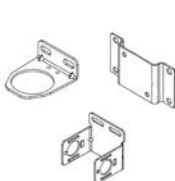
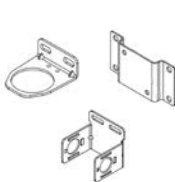
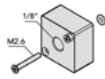
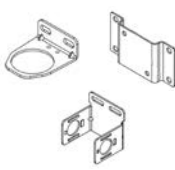
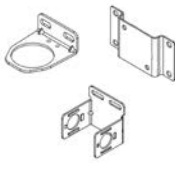
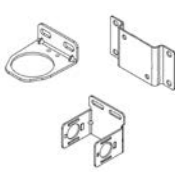
**FINE REGULATION &
AIR TREATMENT UNITS /**
*REGOLAZIONE DI PRECISIONE &
GRUPPI TRATTAMENTO ARIA*

TU / HPR / DPV



August / Agosto
2022

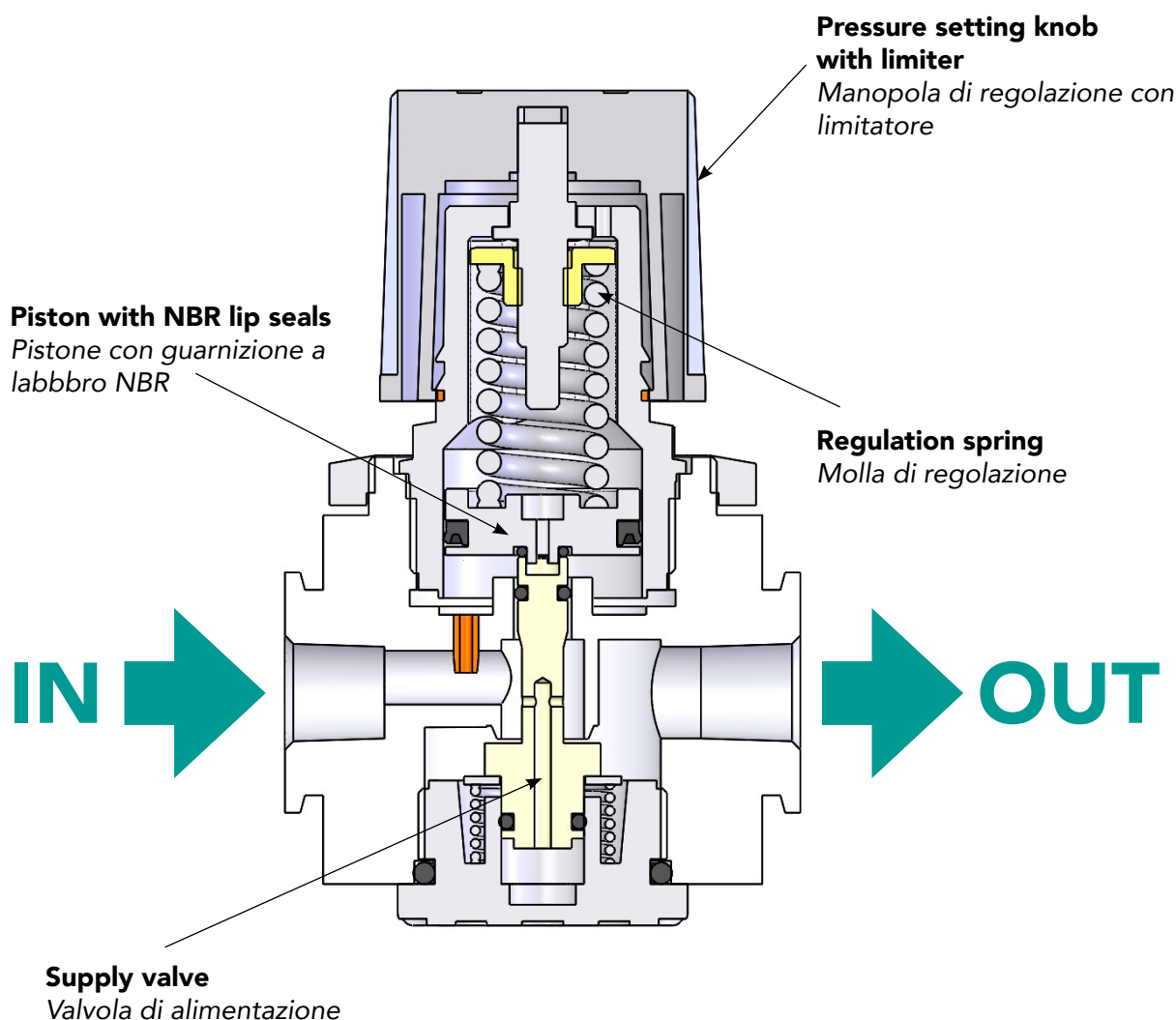
PRESSURE REGULATOR / REGOLATORE DI PRESSIONE		FILTER & PRESSURE REGULATOR / FILTRO & REGOLATORE		FRL UNIT / UNITÀ FRL		AIR FILTER / FILTRO D'ARIA		MICRO MIST FILTER / FILTRO DISOLEATORE	
									
Pag. 10		Pag. 12		Pag. 14		Pag. 16			
SIZE 2 / TAGLIA 2 (G 1/4", 1/8")									
TU-R2-14/18...		TU-FR2-14...		TU-FRL2-14...		TU-F2-14...			
Pag. 26		Pag. 28		Pag. 30		Pag. 32		Pag. 34	
SIZE 3 / TAGLIA 3 (G 1/4", 3/8", 1/2")									
TU-R3 14/38/12...		TU-FR3 14/38/12...		TU-FRL3 14/38/12...		TU-F3 14/38/12...		TU-MMF3 14/38/12...	
Pag. 44		Pag. 46		Pag. 48		Pag. 50		Pag. 52	
SIZE 4 / TAGLIA 4 (G 1/2")									
TU-R4-12...		TU-FR4-12...		TU-FRL4-12...		TU-F4-12...		TU-MMF4-12...	
Pag. 60		Pag. 62		Pag. 64					
SIZE 4H (HIGH PRESSURE) / TAGLIA 4H (ALTA PRESSIONE) (G 1/2")									
TU-R4H-12...		TU-FR4H-12...		TU-FRL4H-12...					
Pag. 68		Pag. 70		Pag. 72		Pag. 74			
SIZE 5 / TAGLIA 5 (G 3/4", 1")									
TU-R5- 34/10...		TU-FR5-34/10...		TU-FRL5-34/10...		TU-F5-34/10...			
Pag. 82						Pag. 84			
SIZE 6 / TAGLIA 6 (G 1 1/2")									
TU-R6-15...						TU-F6-15...			
Pag. 88						Pag. 90			
SIZE 7 / TAGLIA 7 (G 2")									
TU-R7-20...						TU-F7-20...			

LUBRICATOR / LUBRIFICATORE	SLOW START VALVE / VALVOLA DI AVVIAMENTO PROGRESSIVO	ON-OFF VALVE / VALVOLA ON-OFF	BRACKETS / STAFFE	ACCESSORIES / ACCESSORI	
					
Pag. 18	Pag. 22	Pag. 20	Pag. 24	Pag. 96	Pag. 94
					
TU-L2-14...	TU-VS2...	TU-VM2...		EP43	EP41
Pag. 36	Pag. 40	Pag. 38	Pag. 42	Pag. 92	Pag. 92
					
TU-L3 14/38/12...	TU-VS3...	TU-VM3...		TU-AS	K MM...
Pag. 54	Pag. 58	Pag. 56	Pag. 66	FINE PRESSION REGULATION / REGOLAZIONE DI PRECISIONE	
					
TU-L4-12...	TU-VS4...	TU-VM4...		Pag. 100	
Pag. 66				HIGH PRESSURE REGULATOR / REGOLATORE DI PRESSIONE DI PRECISIONE	
					
Pag. 76	Pag. 78	Pag. 80		HPR 18.. HPR 14.. HPR 12..	
				Pag. 108	
TU-L5-34/10...	TU-VM5...			DIGITAL PROPORTIONAL VALVE / VALVOLA PROPORZIONALE A COMANDO ELETTRICO	
Pag. 86					
				DPV 18.. DPV 14.. DPV 12..	
TU-L6-15...					

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.

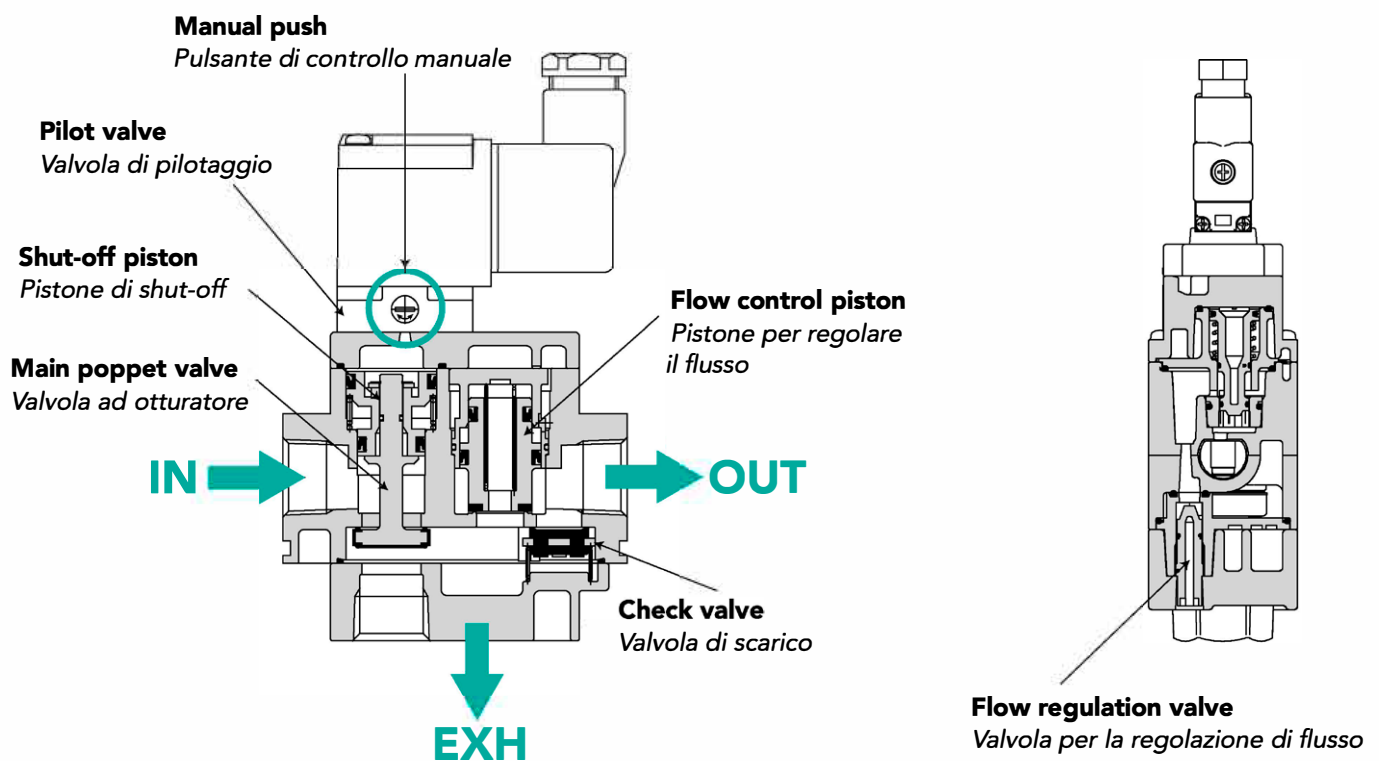


TU-VS DOUBLE FUNCTION / TU-VS CON DOPPIA FUNZIONE

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 (+).



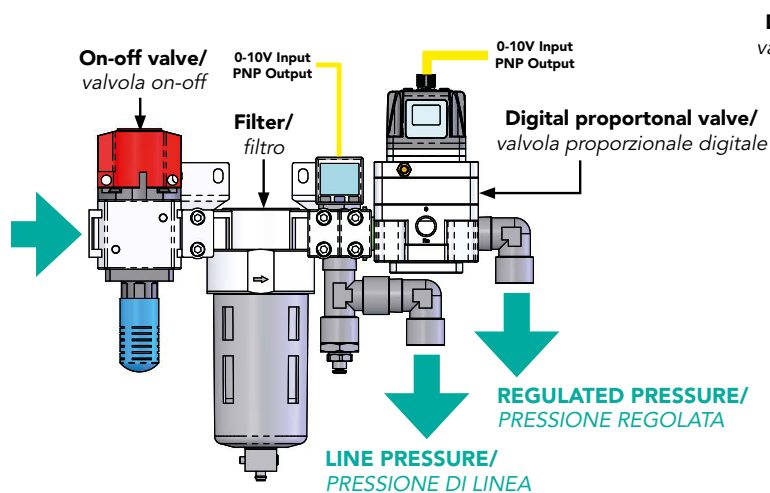
MODULARITY / MODULARITÀ

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.

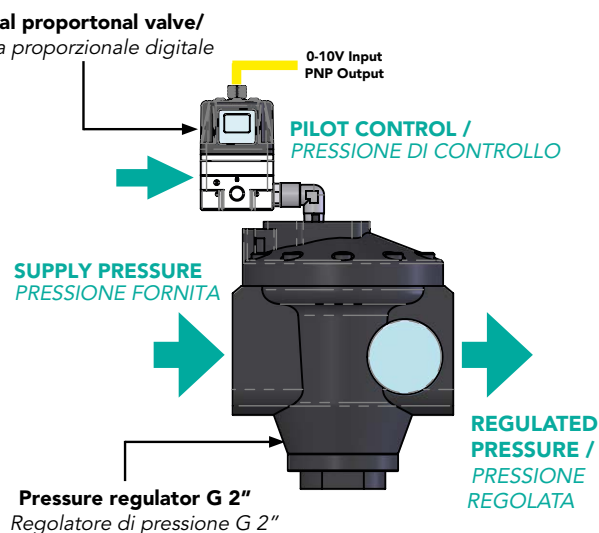
Groups can be easily assembled together to offer different advanced functions: **assembly example A** includes on-off manual control, filtering and multiple-pressure output. The group can be fully controlled by a PLC, with digital input (DPV series) and digital output (DPV and DPS series), for a precise 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

PRESSURE GAUGE / MANOMETRO

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



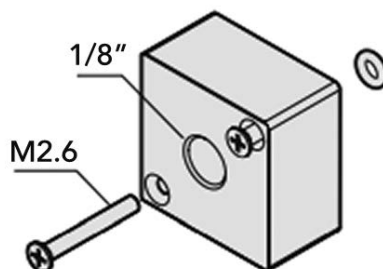
TU - G

TU compatible pressure switch
Pressostato digitale per serie TU



EP41 / DPS

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

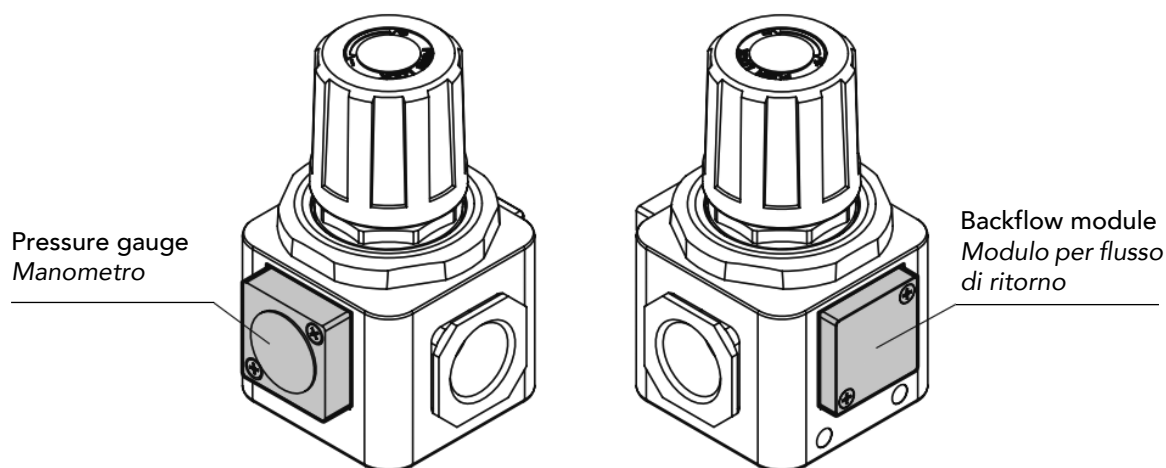


TU - AS

BACKFLOW FUNCTION / 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.

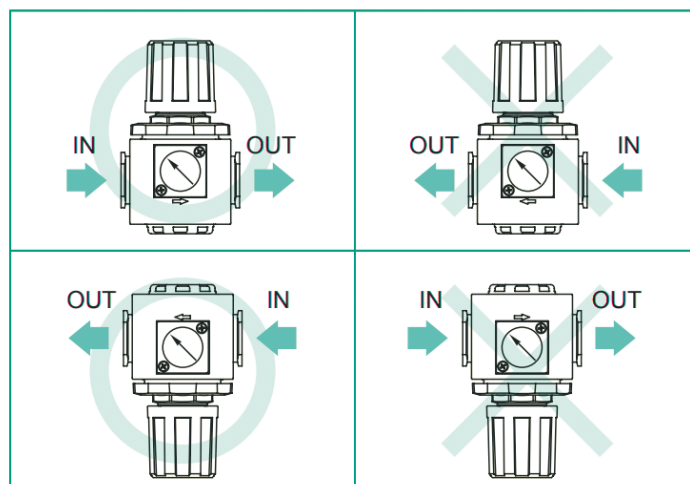
Questi regolatori possono essere inseriti tra valvola e cilindro. L'aria in scarico non passa attraverso il regolatore, permettendo una portata elevata.



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.

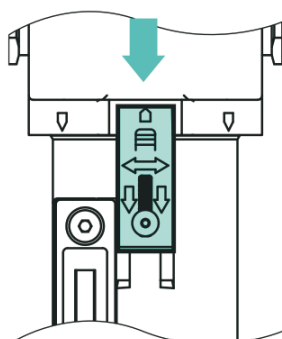
I componenti della serie TU-3, TU-4 e TU-5 possono essere ordinati con tazze in metallo, per avere maggiore resistenza agli urti, mentre la serie TU-4H permette una regolazione di pressione da 0 a 20 Bar.



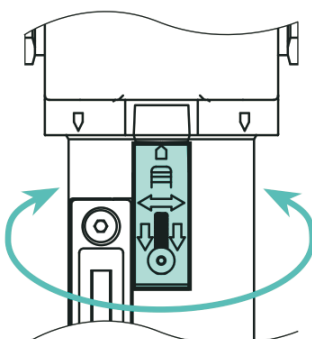
INSTALLATION / INSTALLAZIONE

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.

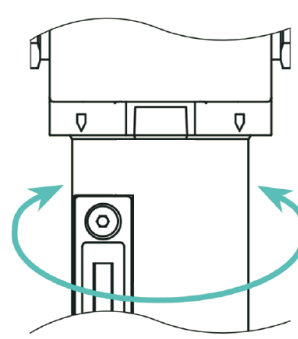


Locked bowl
Tazza bloccata



Unlocked bowl (rotate)
Tazza sbloccata (ruotare)

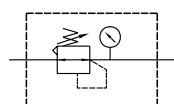
TU - 3



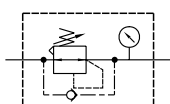
Push the bowl up to rotate
Spingere verso l'alto la tazza
per poterla ruotare

TU - 4

TU - R2

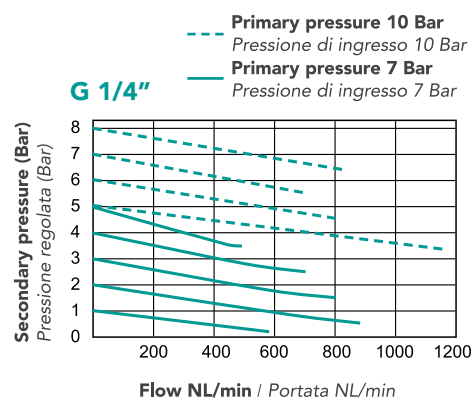
PRESSURE REGULATOR
REGOLATORE DI PRESSIONE

Standard / standard

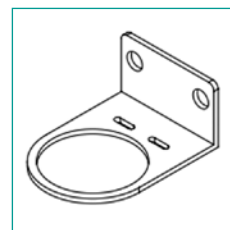


Backflow / flusso di ritorno

FLOW / PORTATA



Attachment / Accessori

L-type bracket (TU-BL2)
Staffa a L (TU-BL2)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

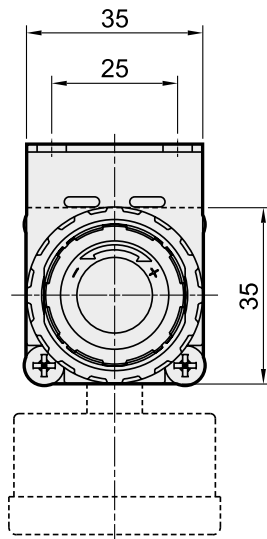
Port size / Connessione	G 1/4" G1/8"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	Version - Versione A: 0,5 ~ 2 Bar Version - Versione B: 0,5 ~ 4 Bar Version - Versione C: 0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Attachment / Accessori	Pressure gauge, L-type bracket (TU-BL2) Manometro, staffa tipo L (TU-BL2)
Weight / Peso	190 g

ENCODING / CODIFICA

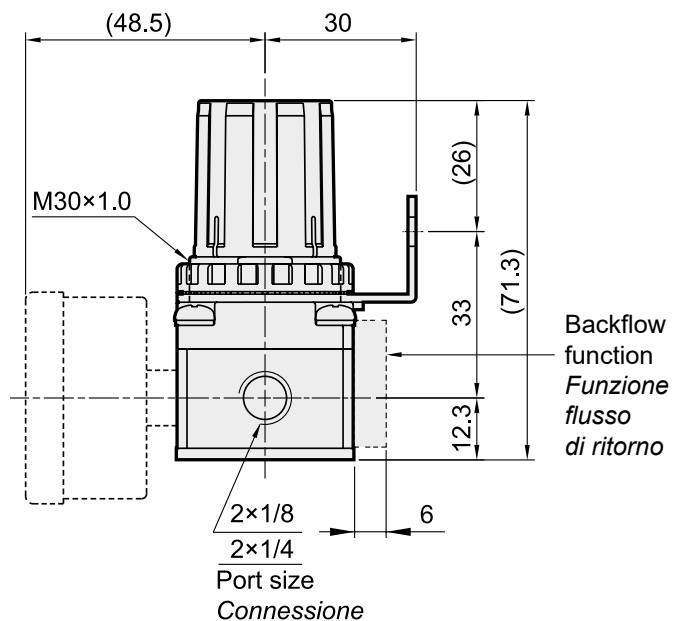
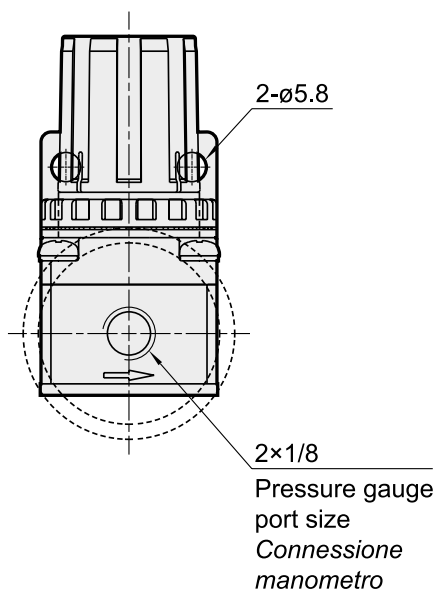
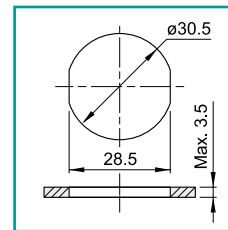
TU - R2 - -

Model <i>Modello</i>	Port size: <i>Connessione</i> 14 1/4" 18 1/8"	Backflow function: S Standard B Backflow function <i>Funzione flusso di ritorno</i>	Pressure range: <i>Range di pressione:</i> A (0,5÷2 Bar) B (0,5÷4 Bar) C (0,5÷8,5 Bar)	Exhaust mechanism: <i>Meccanismo di scarico:</i> R Relieving type con relieving N Non relieving type senza relieving
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DIMENSIONS / DIMENSIONI

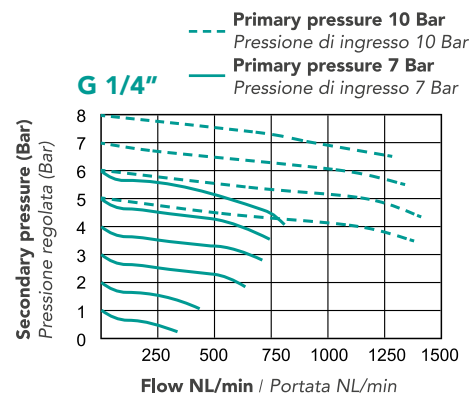
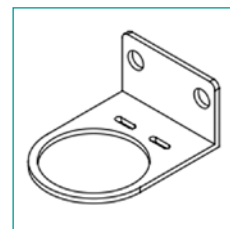


Panel mounting hole
Foro per montaggio a pannello



TU - FR2

FILTER AND PRESSURE REGULATOR
FILTRO E REGOLATORE DI PRESSIONE

FLOW / PORTATA

Attachment / Accessori

L-type bracket (TU-BL2)
 Staffa a L (TU-BL2)

***Pressure gauge to be ordered separately**
***Il manometro è da ordinare a parte**
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

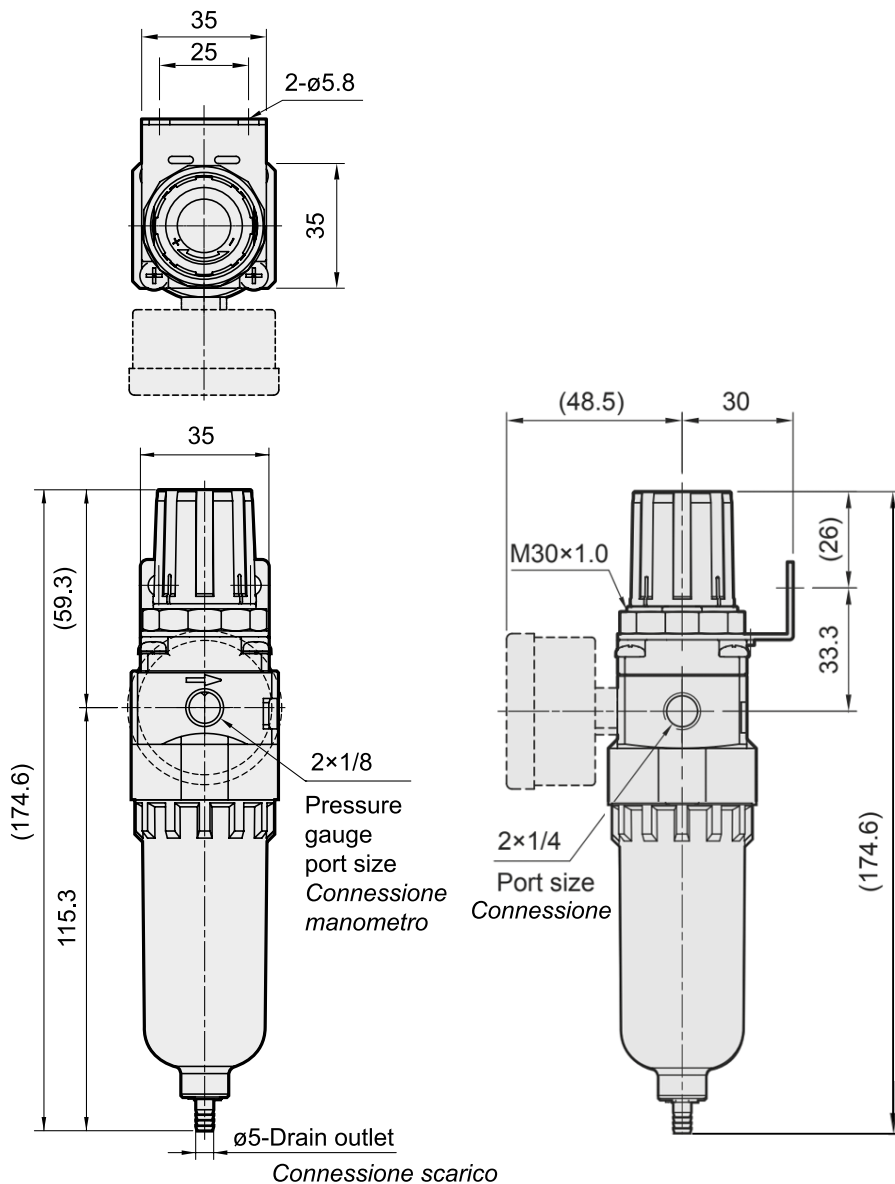
Port size / Connessione	G 1/4"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	Version - Versione A: 0,5 ~ 2 Bar Version - Versione B: 0,5 ~ 4 Bar Version - Versione C: 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	9,5 cm ³ (P), 25 cm ³ (L)
Attachment / Accessori	Pressure gauge, L-type bracket (TU-BL2) Manometro, staffa tipo L (TU-BL2)
Weight / Peso	257 g (P), 226 g (L)

ENCODING / CODIFICA

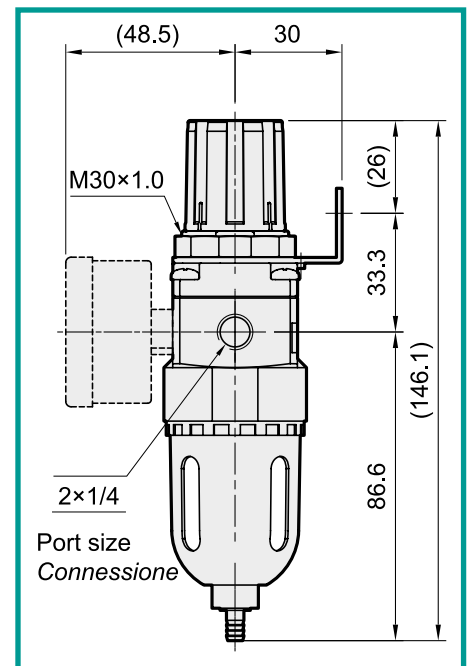
TU - FR2 - 14 -

Model Modello	Port size: Connessione: 14 1/4"	Adjustable press. range: Range di pressione regolabile: A (0,5÷2 Bar) B (0,5÷4 Bar) C (0,5÷8,5 Bar)	Bowl /Tazza: L Longer Case Tazza lunga P Protection case Tazza protetta	Filter element: Elemento filtrante: 4 40 µm 5 5 µm
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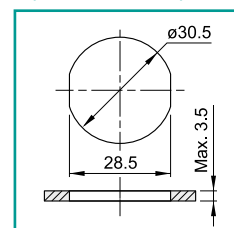
DIMENSIONS / DIMENSIONI



Protection case
Tazza protetta



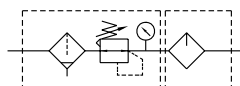
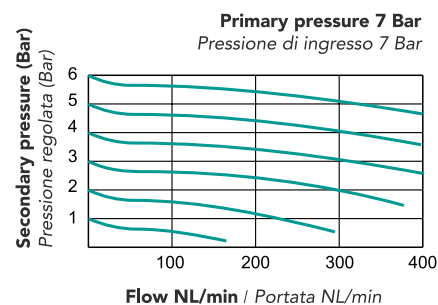
Panel mounting hole
Foro per montaggio a pannello



TU - FRL2

F.R.L UNIT
UNITÀ F.R.L.

FLOW / PORTATA



*Pressure gauge to be ordered separately
*Il manometro è da ordinare a parte

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

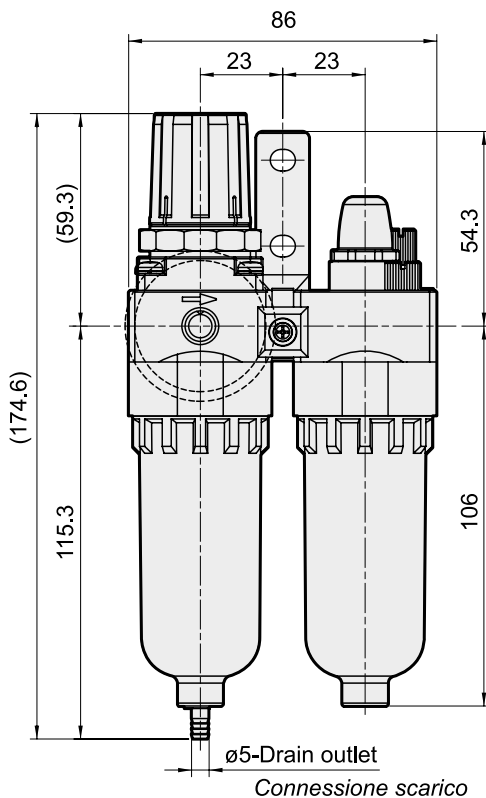
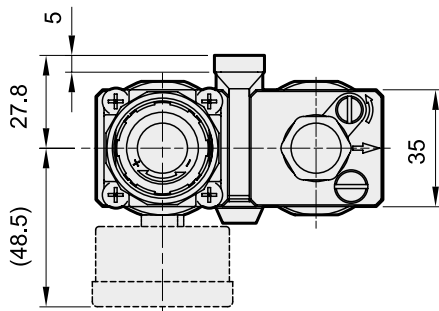
Port size / Connessione	G 1/4"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Lubricating oil capacity / Capacità tazza olio	20 c.c. (P) , 35 c.c. (L)
Min. flow for oil drip Flusso minimo gocciolamento olio	50L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Attachment / Accessori	Pressure gauge Manometro

ENCODING / CODIFICA

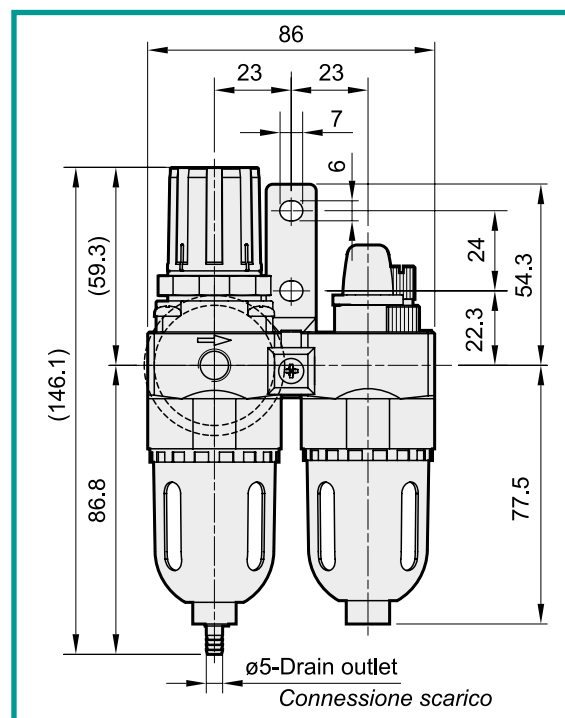
TU - FRL2 - 14 -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 14 1/4"	Bowl /Tazza: L Longer Case Tazza lunga P Protection case Tazza protetta	Filter element: <i>Elemento filtrante:</i> 4 40 µm 5 5 µm
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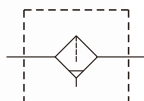
DIMENSIONS / DIMENSIONI



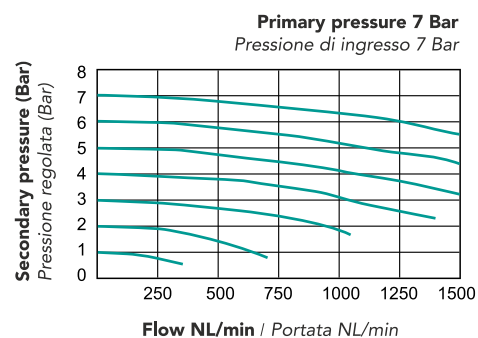
Protection case
Tazza protetta



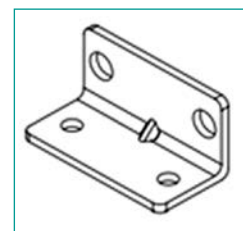
TU - F2

FILTER
FILTRO

FLOW / PORTATA



Attachment / Accessori

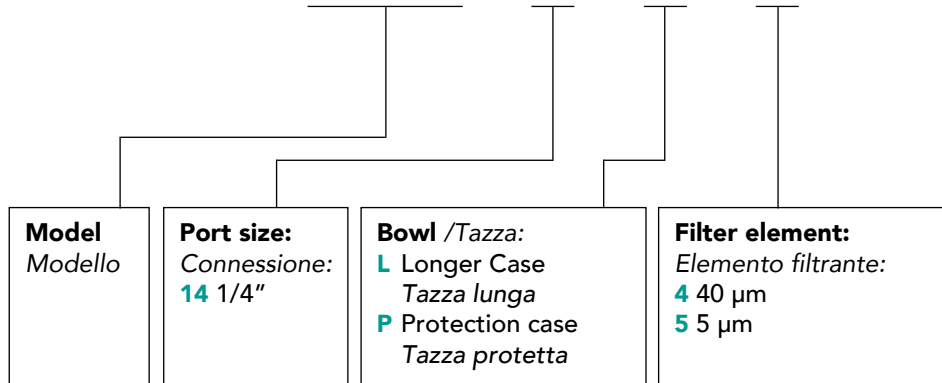


L-type bracket (TU-BC2F)
Staffa a L (TU-BC2F)

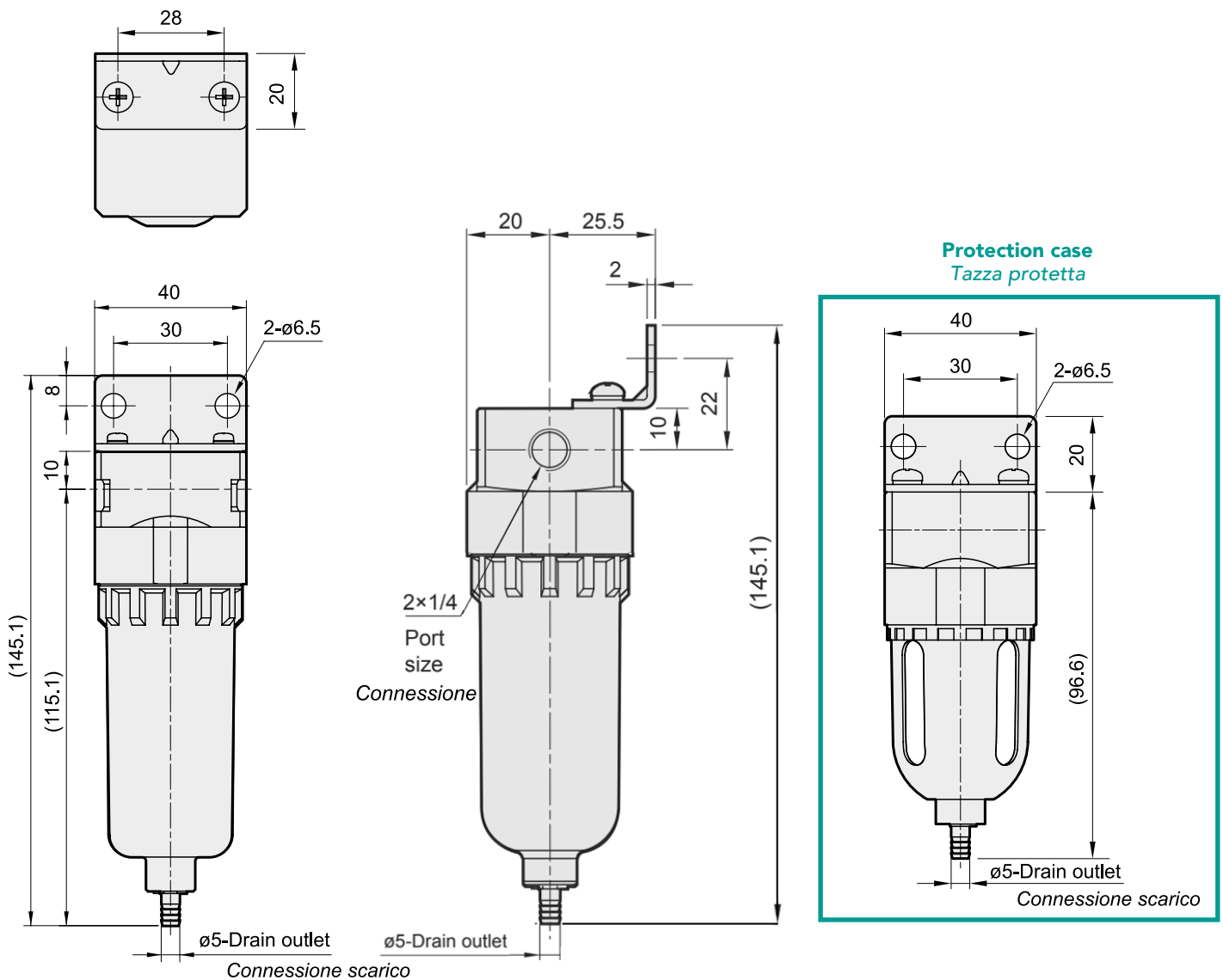
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 1/4"
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 di scarico	9,5 cm ³ (P), 25 cm ³ (L)
Weight / Peso	187 g (P), 155 g (L)
Attachment / Accessori	bracket (TU-BC2F) staffa (TU-BC2F)

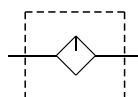
ENCODING / CODIFICA

TU - F2 - 14 - ☐ ☐

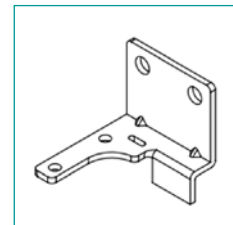
DIMENSIONS / DIMENSIONI



TU - L2

LUBRICATOR
LUBRIFICATORE

Attachment / Accessori

L-type bracket (TU-BC2L)
Staffa a L (TU-BC2L)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

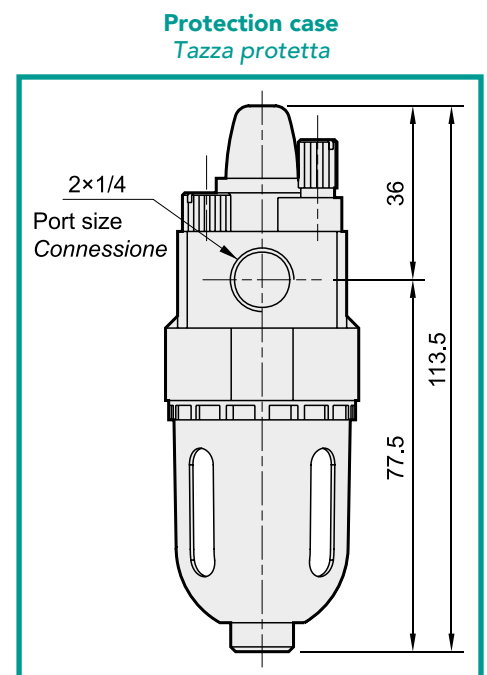
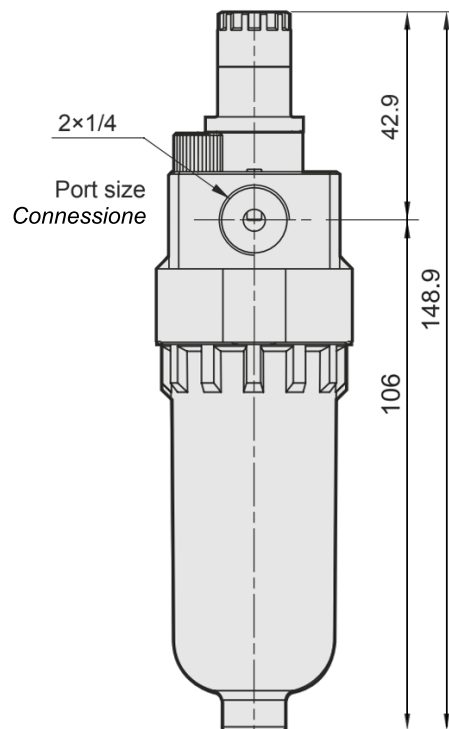
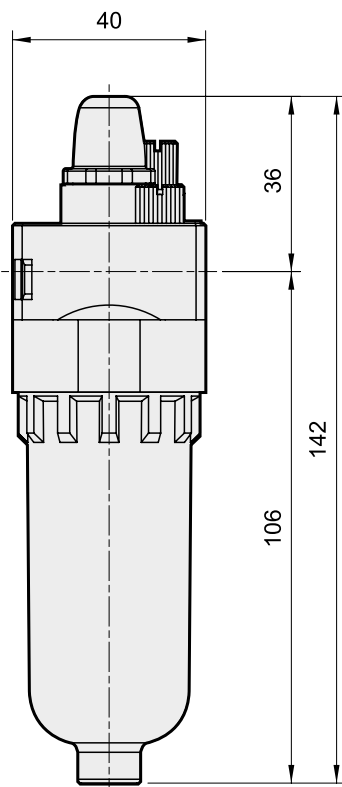
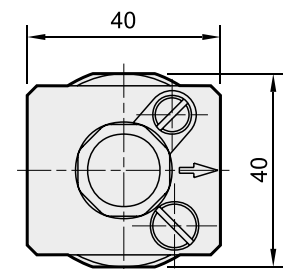
Port size / Taglia	G 1/4"
Fluid / Fluido	Air / Air
Max. operating pressure Range massimo di pressione	10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Lubricating oil capacity Capacità tazza olio	20 cc (P), 35 cc (L)
Min. flow for oil drip Flusso minimo gocciolamento olio	50 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Weight / Peso	150 g, 130 g (L)
Attachment / Accessori	L-type bracket (TU-BC2L) staffa a L (TU-BC2L)

ENCODING / CODIFICA

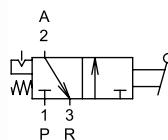
TU - L2 - 14 -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 14 1/4"	Bowl /Tazza: L Longer Case Tazza lunga P Protection case Tazza protetta
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DIMENSIONS / DIMENSIONI



TU - VM2

ON OFF VALVE
VALVOLA ON OFF

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1/4"
N° of port / N° di porti	3
N° of position / N° di connessioni	2
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	1 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Recommended lubricated oil Olio di lubrificazione consigliato	Turbine Oil ISOVG32
Weight / Peso	150 g

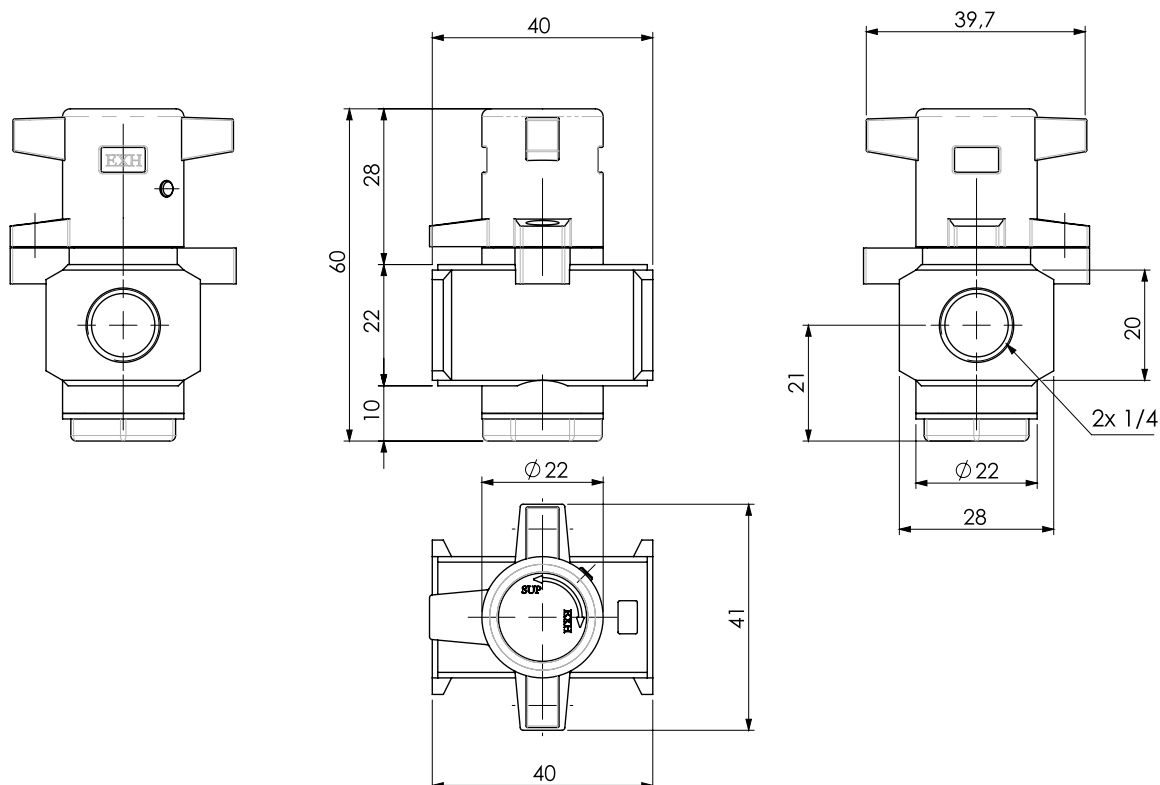
ENCODING / CODIFICA

TU - VM2 -

Model
Modello

Port size:
Connessione:
14 G 1/4"

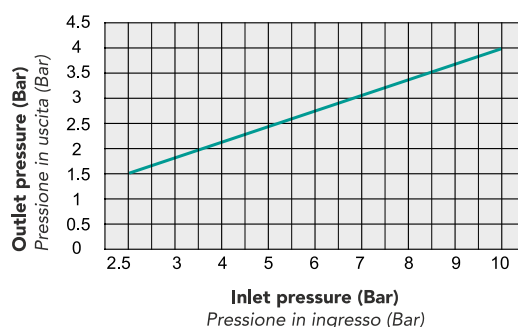
DIMENSIONS / DIMENSIONI



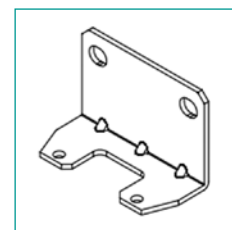
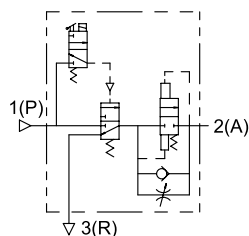
TU - VS2

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-BVS2)
Staffa a L (TU-BVS2)

*Pressure gauge to be ordered separately
*Il manometro è da ordinare a parte

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1/4"
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-BVS2) Manometro, staffa tipo L (TU-BVS2)
Weight / Peso	450 g

ENCODING / CODIFICA

TU - VS2 - -

Model
Modello

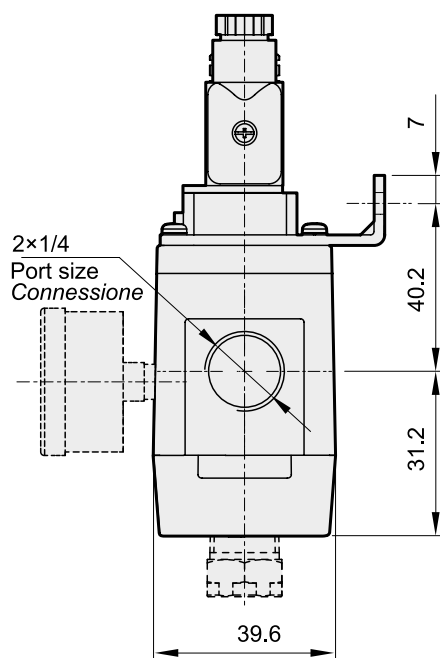
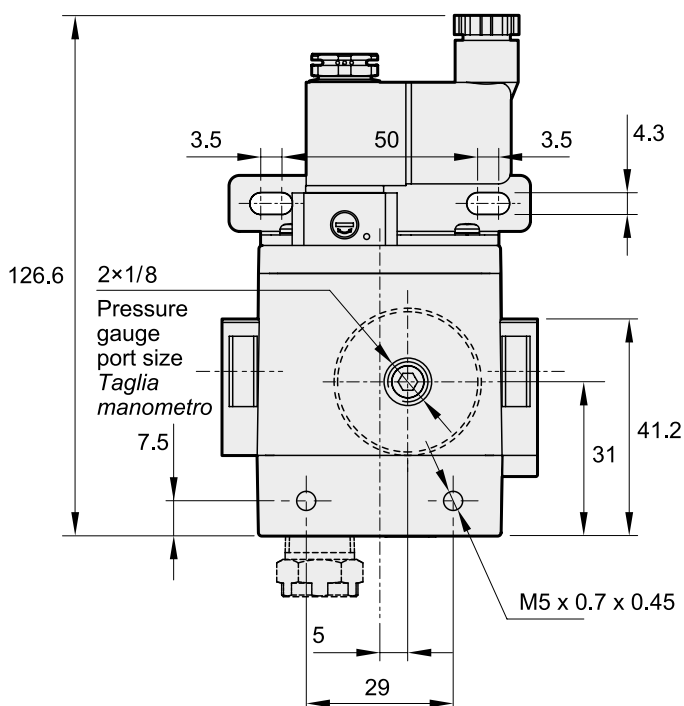
Port size:
Connessione:
14 1/4"

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

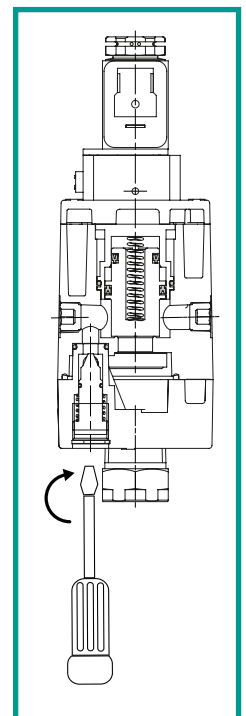
COIL / BOBINA

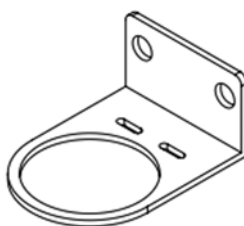
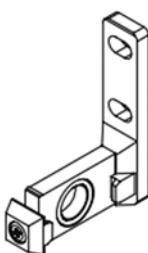
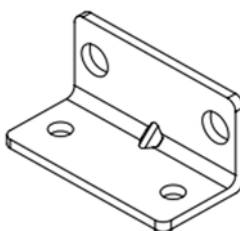
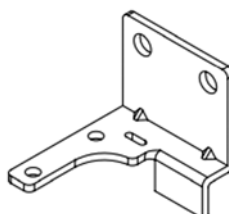
Code / Codice	Voltage / Tensione
MS01200	12 V DC
MS02400	24 V DC
MS02450	24 V 50/60Hz AC
MS11550	115 V 50/60Hz AC
MS23050	230 V 50/60Hz AC

DIMENSIONS / DIMENSIONI



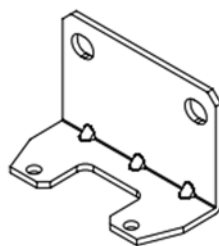
Slow-start regulation
Regolazione avviamento
progressivo



TU - BL2**L Bracket**
Staffa a L**TU - BT2****T Bracket**
Staffa a T**TU - BC2F****Bracket for F unit**
Staffa per unità F**TU - BC2L****Bracket for L unit**
Staffa per unità L

TU - BVS2

Bracket for TU-VS2
Staffa per TU-VS2



TU - FE2

40 micron filter
Filtro 40 micron

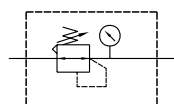


TU - FX2

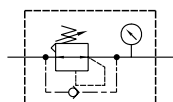
5 micron filter
Filtro 5 micron



TU - R3

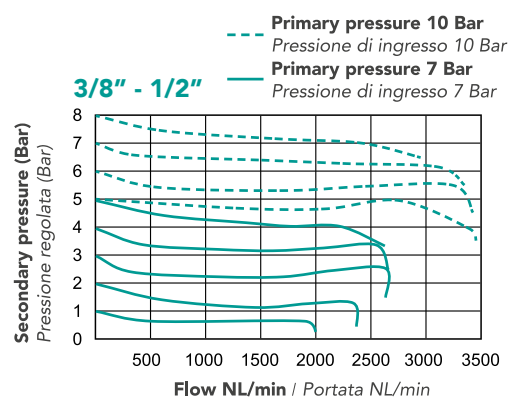
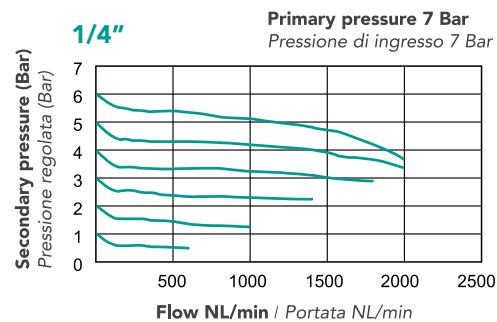
PRESSURE REGULATOR
REGOLATORE DI PRESSIONE

Standard / standard

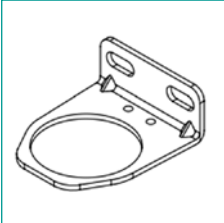


Backflow / flusso di ritorno

FLOW / PORTATA



Attachment / Accessori

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

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

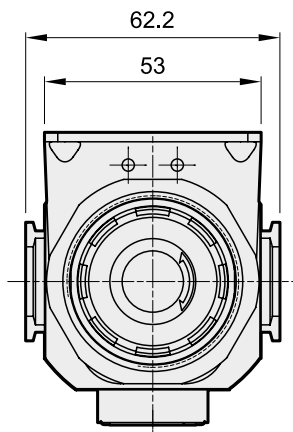
Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no 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

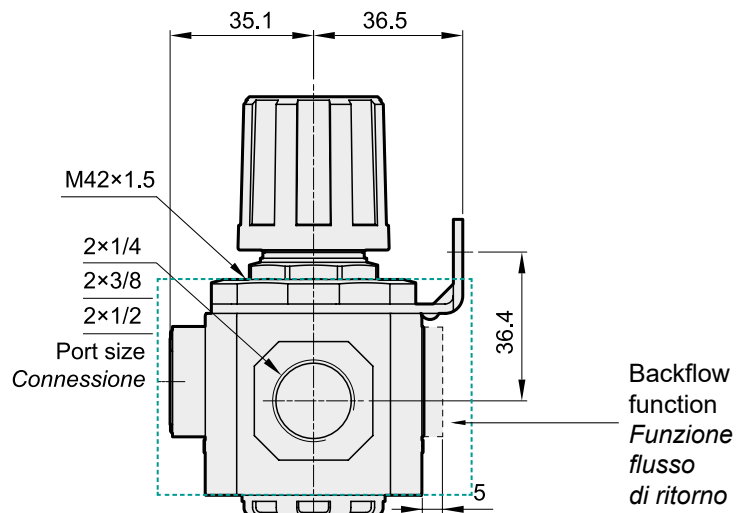
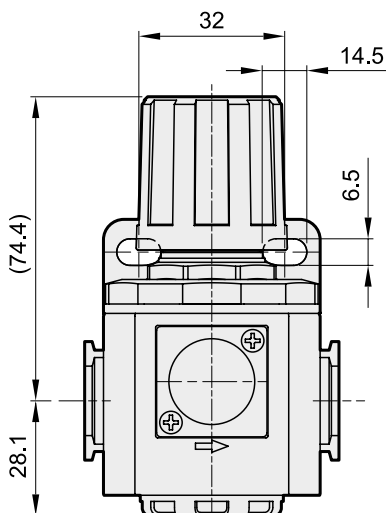
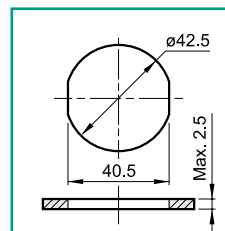
TU - R3 - -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 14 1/4" 38 3/8" 12 1/2"	Backflow function: S Standard B Backflow function <i>Funzione flusso di ritorno</i>	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 <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>
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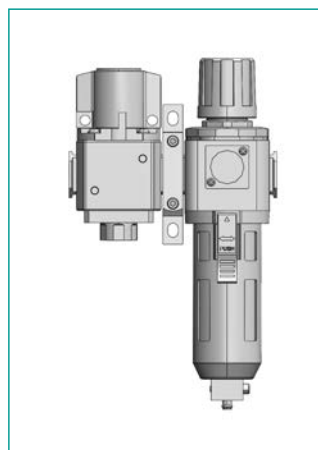
DIMENSIONS / DIMENSIONI



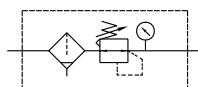
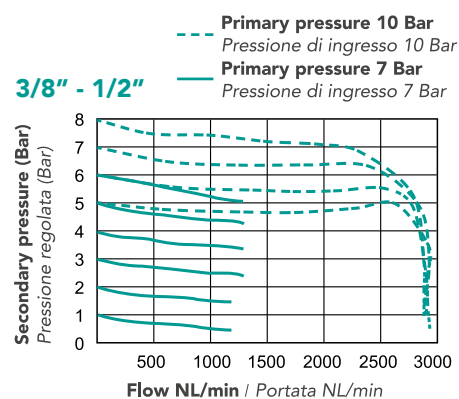
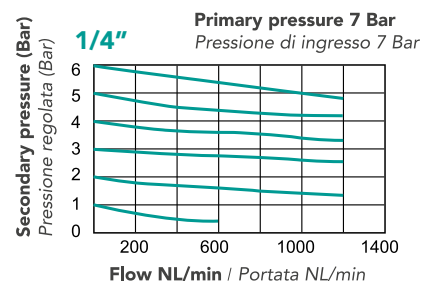
Panel mounting hole
Foro per montaggio a pannello



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 <i>Range di pressione operativa</i>	0,5 ~ 10 Bar
Proof pressure <i>Pressione di scoppio</i>	15 Bar
Regulated pressure range <i>Range di regolazione di pressione</i>	0,5 ~ 8,5 Bar
Ambient temperature <i>Temperatura ambiente</i>	- 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

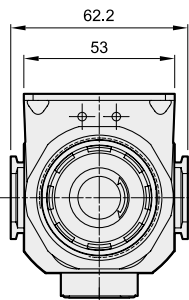
Filter element:
Elemento filtrante:
4 40 µm
5 5 µm

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

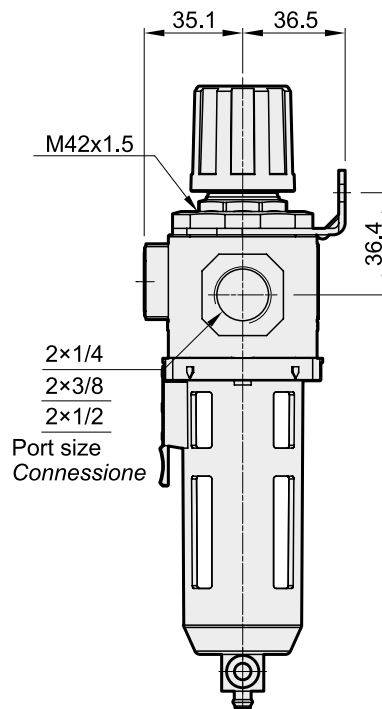
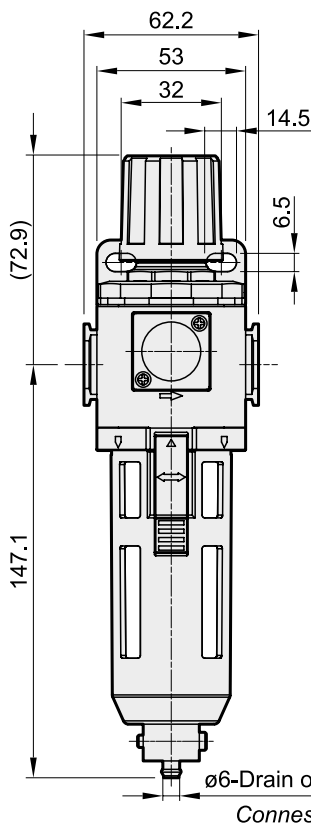
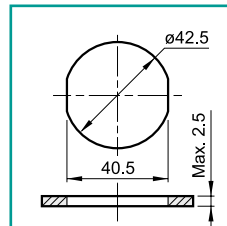
Pressure Gauge: / Manometro:
G Integrated pressure gauge
Manometro integrato
A Gauge adapter set (TU-AS)
Adattatore per manometro (TU-AS)
E Pressure switch (EP41)
Pressostato digitale (EP41)

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

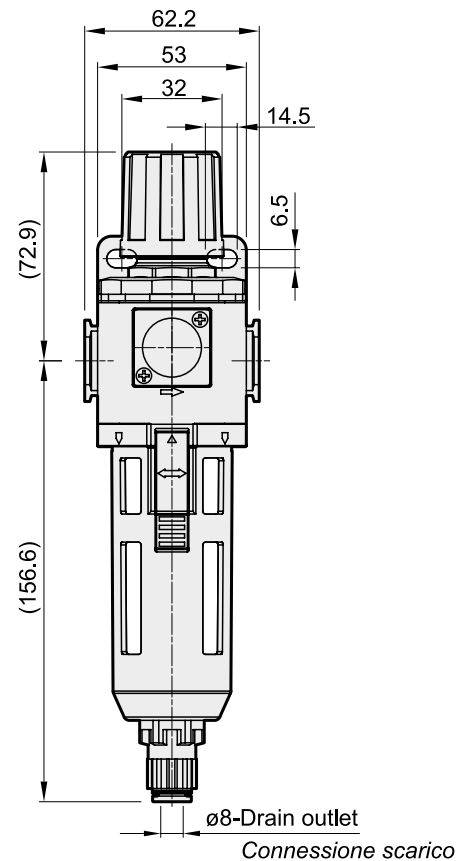
DIMENSIONS / DIMENSIONI



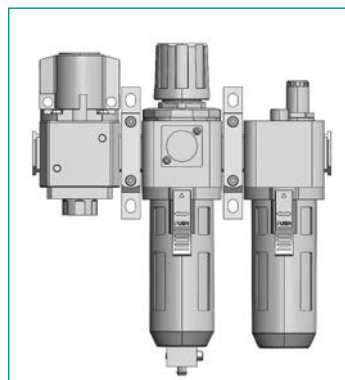
Panel mounting hole
Foro per montaggio a pannello



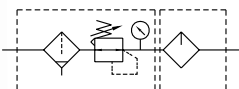
Auto drain
Scarico automatico



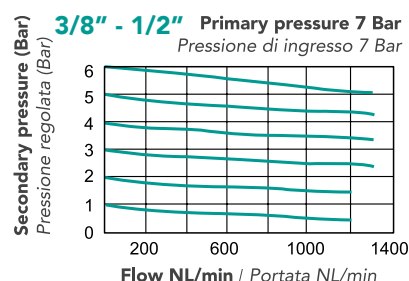
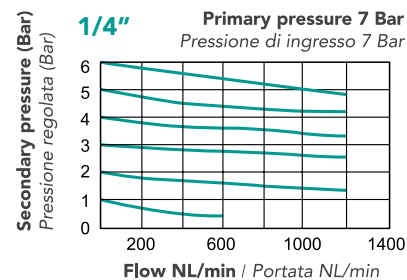
TU - FRL3

F.R.L UNIT
UNITÀ F.R.L.

Integrated ON OFF version
Versione con valvola ON OFF integrata



FLOW / PORTATA



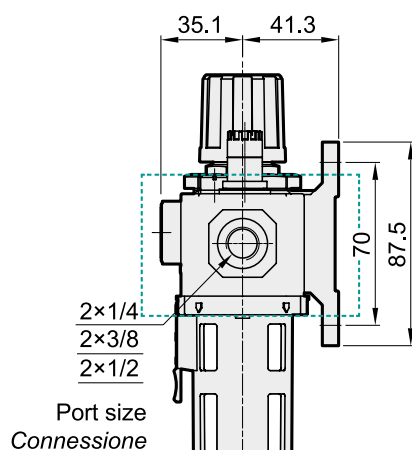
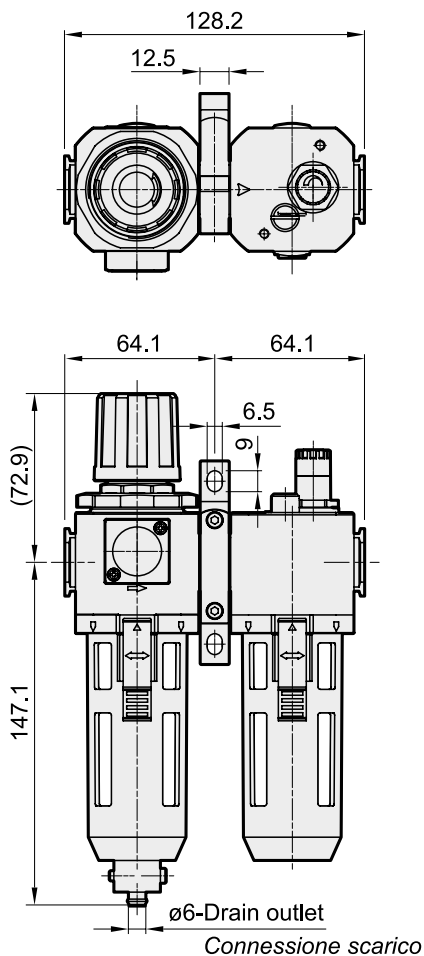
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

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

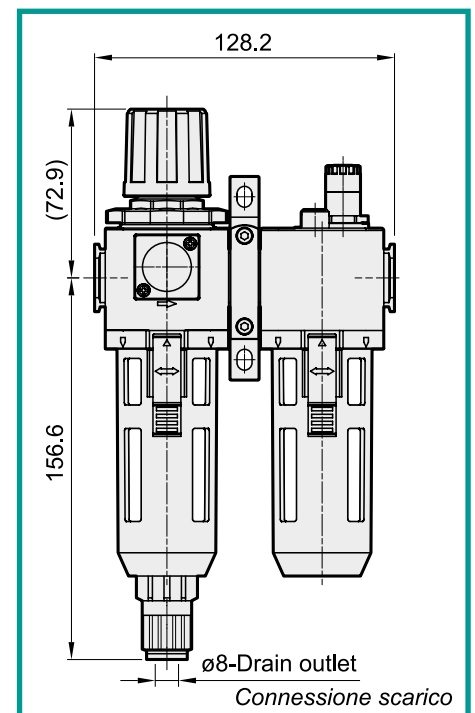
ENCODING / CODIFICA

TU - FRL3 -  -   		 - 	ON OFF Valve / Valvola ON OFF Blank No integrated valve Senza valvola integrata VM Integrated ON OFF valve Valvola ON OFF integrata
Model Modello	Port size: Connessione: 14 1/4" 38 3/8" 12 1/2"	Accessories / Accessori	
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



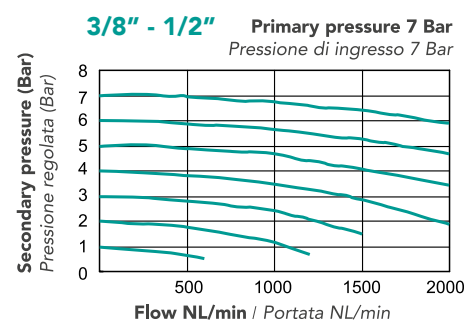
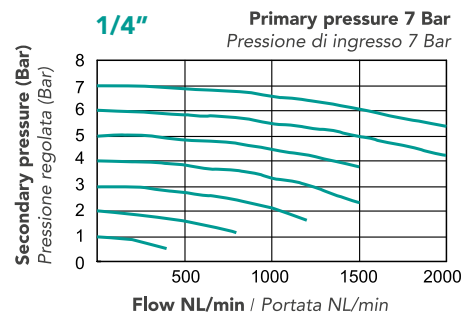
Auto drain valve
Scarico automatico



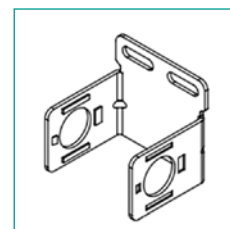
TU - F3

FILTER
FILTRO

FLOW / PORTATA



Attachment / Accessori



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

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

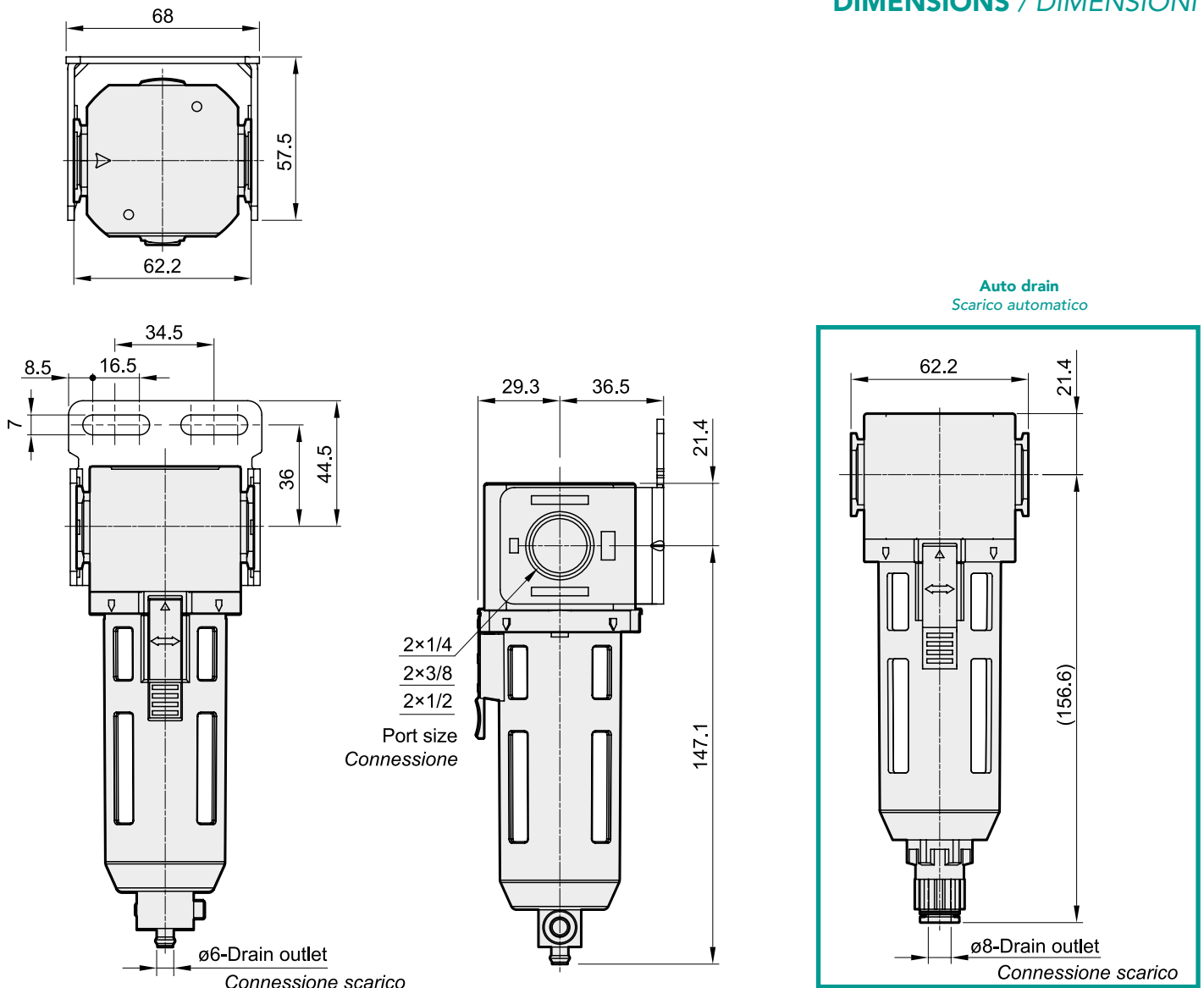
Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	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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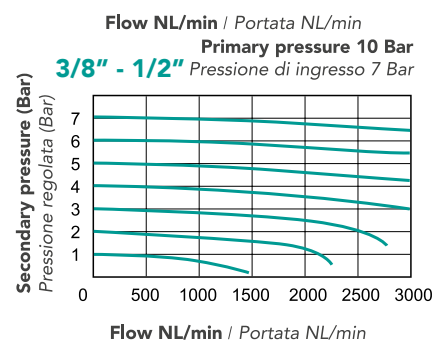
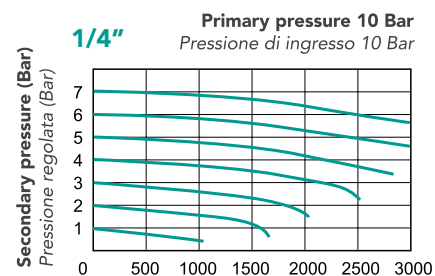
DIMENSIONS / DIMENSIONI



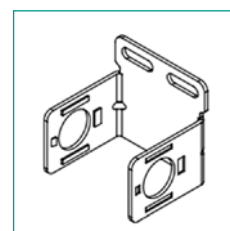
TU - MMF3

MICRO-MIST FILTER
FILTRO DISOLEATORE

FLOW / PORTATA



Attachment / Accessori

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

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

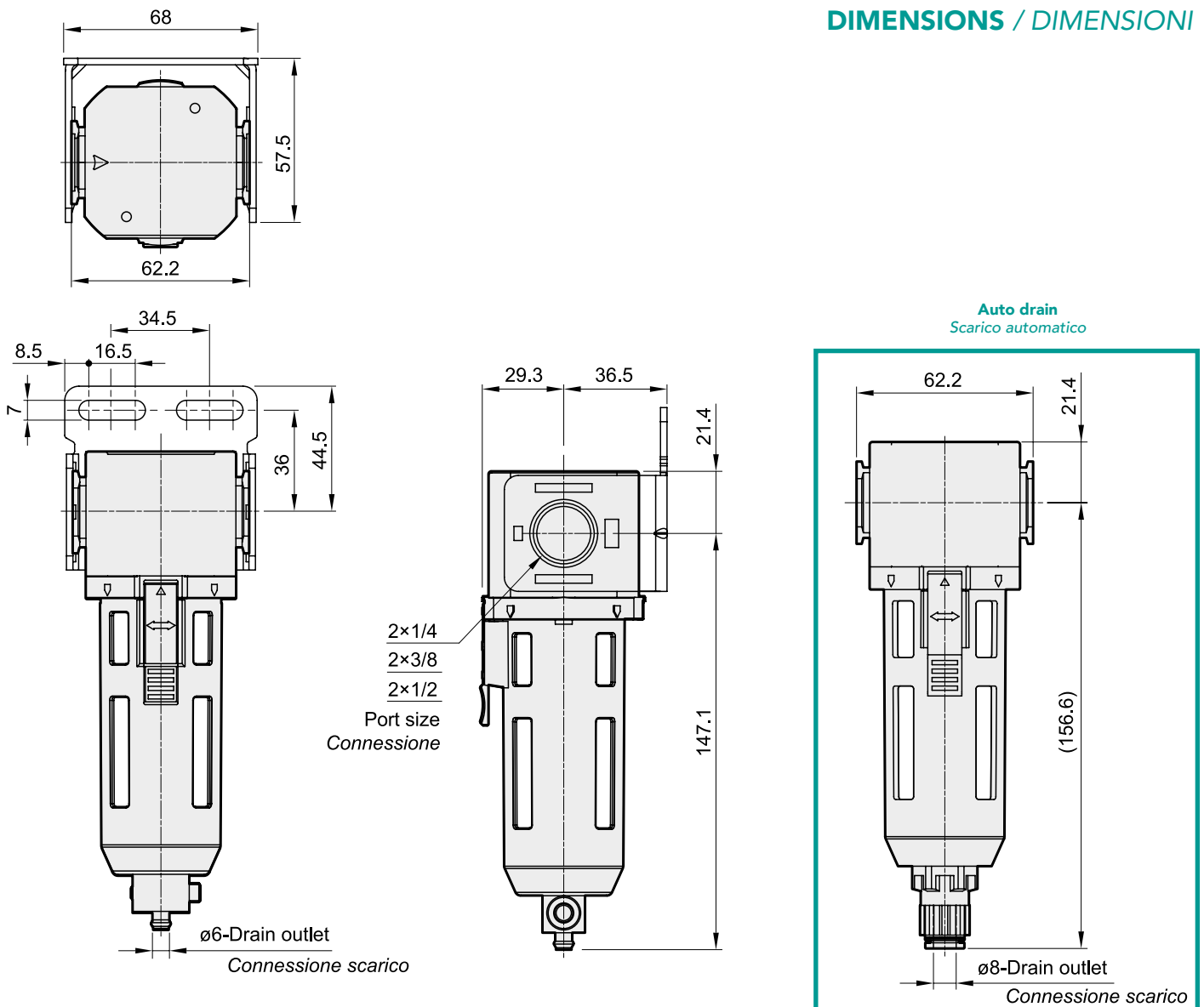
Port size / Connessione	G 1/4" G 3/8" G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante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

ENCODING / CODIFICA

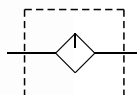
TU - MMF3 - -

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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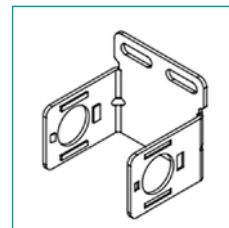
DIMENSIONS / DIMENSIONI



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

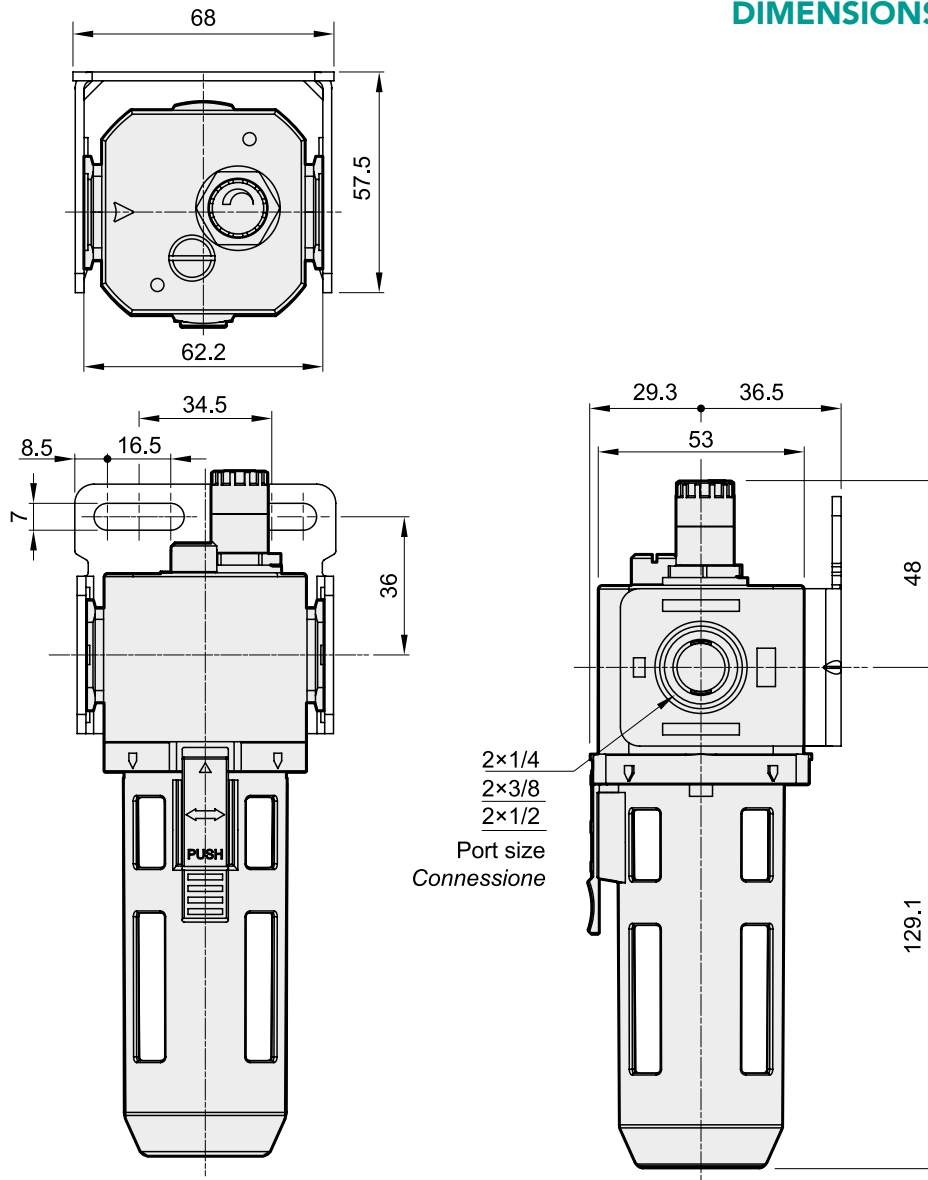
TU - L3 - -

Model
Modello

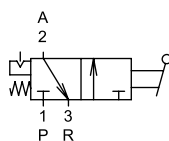
Port size:
Connessione:
14 1/4"
38 3/8"
12 1/2"

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

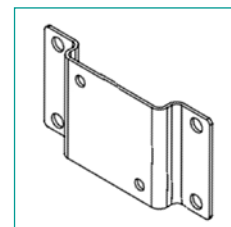
DIMENSIONS / DIMENSIONI



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

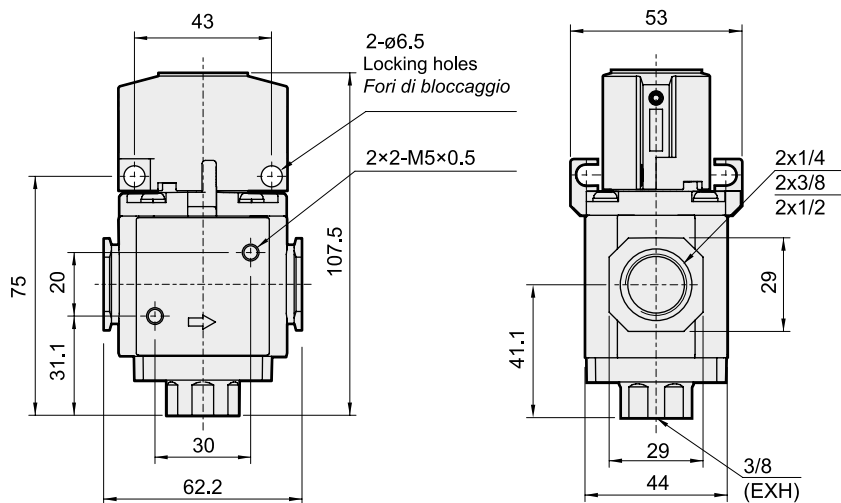
ENCODING / CODIFICA

TU - VM3 -

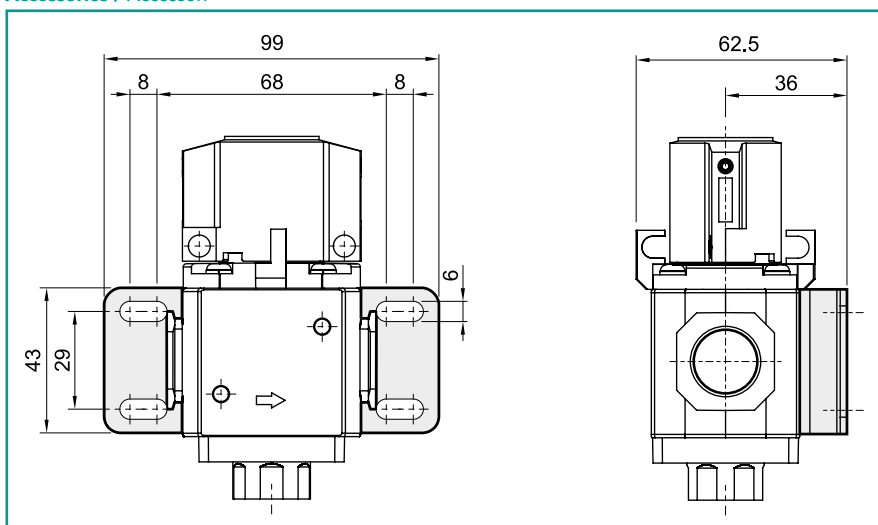
Model
Modello

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

DIMENSIONS / DIMENSIONI



Accessories / Accessori

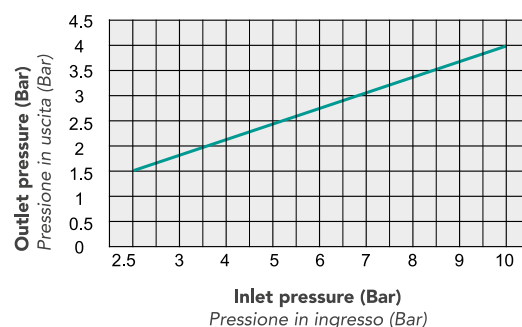


TU - VS3

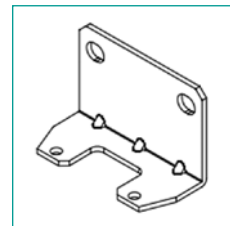
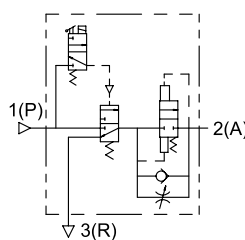
SLOW START / SHUT-OFF VALVE
VALVOLA DI AVVIAMENTO PROGRESSIVO

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

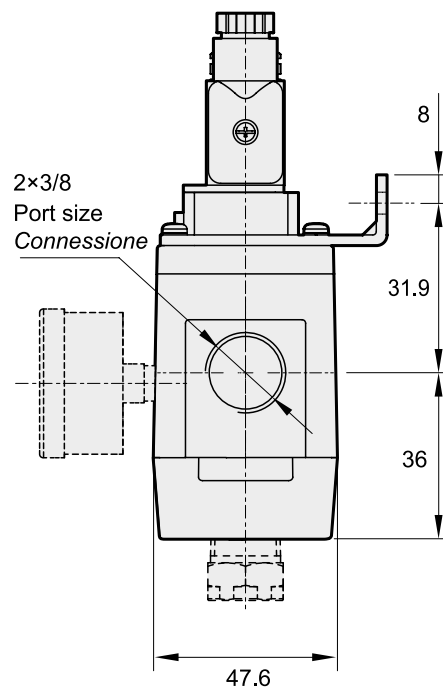
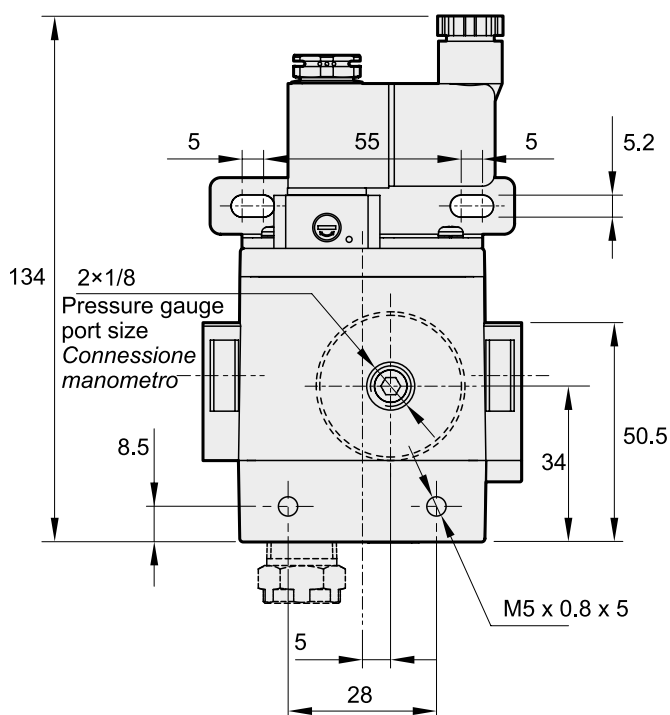
Port size:
Connezione:
38 3/8"

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

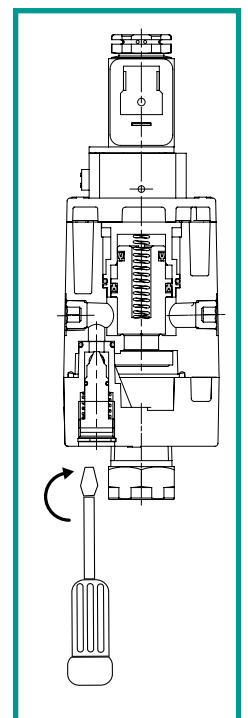
COIL / BOBINA

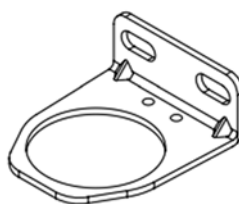
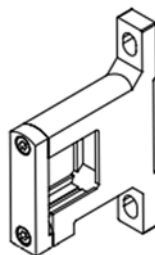
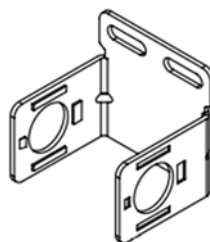
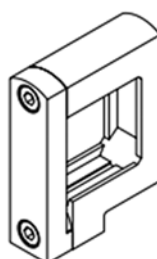
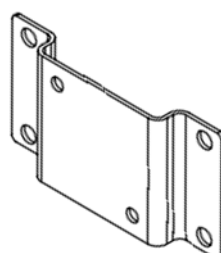
Code / Codice	Voltage / Tensione
MS01200	12 V DC
MS02400	24 V DC
MS02450	24 V 50/60Hz AC
MS11550	115 V 50/60Hz AC
MS23050	230 V 50/60Hz AC

DIMENSIONS / DIMENSIONI



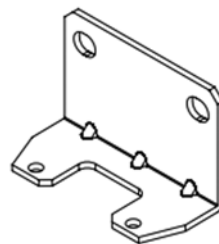
Slow-start regulation
Regolazione avviamento
progressivo



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

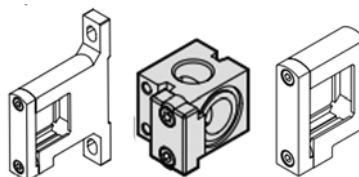
TU - BVS3

Bracket fot TU - VS3
Staffa per TU - VS3



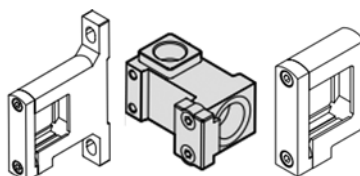
TU - T3 - 14, 38, 12

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

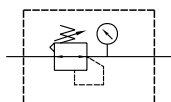


TU - FX3

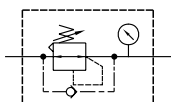
5 micron filter
Filtro 5 micron



TU - R4

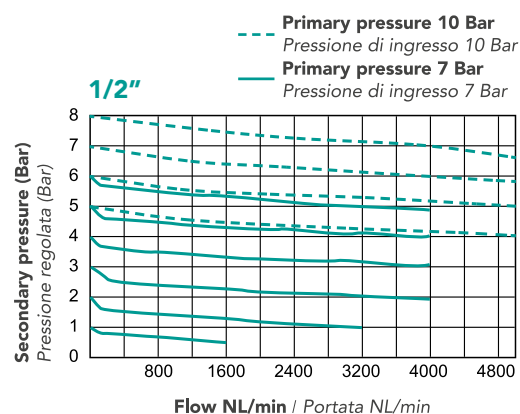
PRESSURE REGULATOR
REGOLATORE DI PRESSIONE

Standard / standard

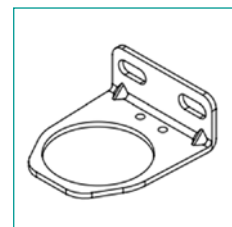


Backflow / flusso di ritorno

FLOW / PORTATA



Attachment / Accessori

L-type bracket (TU-BL4)
Staffa a L (TU-BL4)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

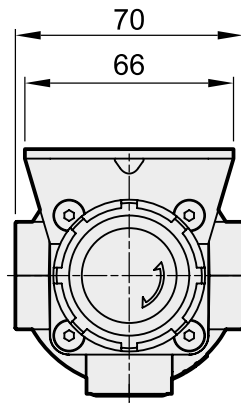
Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	10 Bar
Proof pressure Pressione di scoppio	15 Bar
Regulated pressure range Range di regolazione di pressione	1 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Attachment / Accessori	Pressure gauge, gauge adapter set, L-type bracket (TU-BL4) Manometro, adattatore per manometro, staffa a L (TU-BL4)
Weight / Peso	450 g

ENCODING / CODIFICA

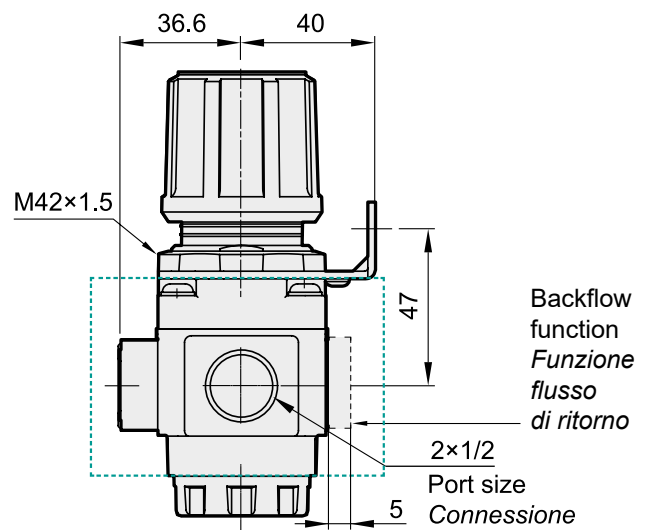
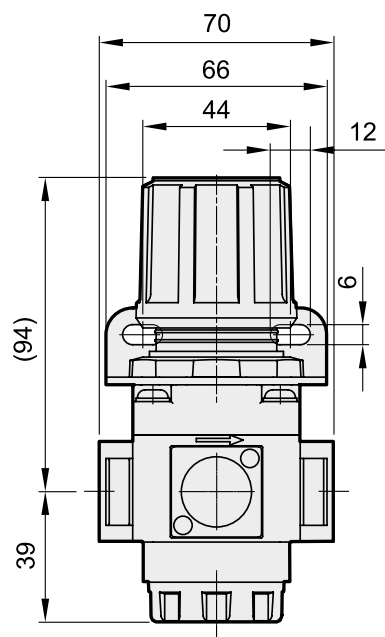
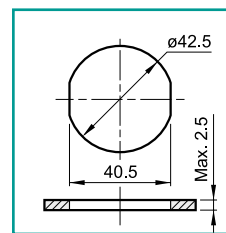
TU - R4 - -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 12 1/2"	Backflow function: S Standard B Backflow function <i>Funzione flusso di ritorno</i>	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 <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>
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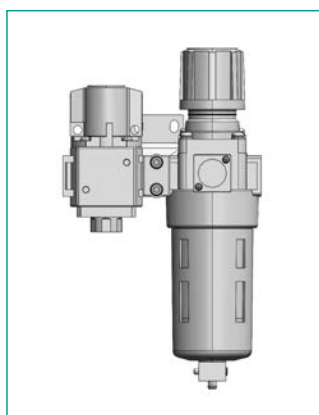
DIMENSIONS / DIMENSIONI



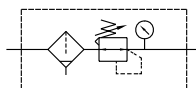
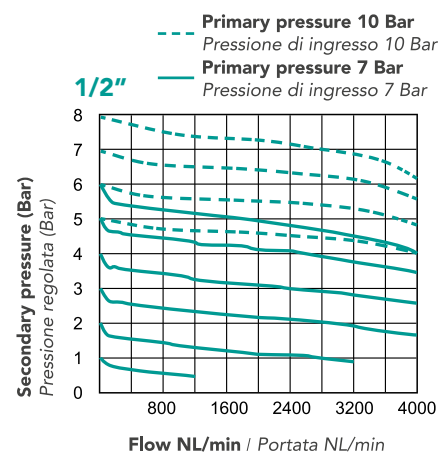
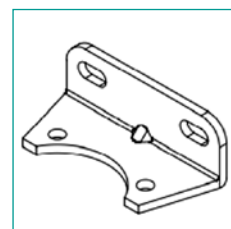
Panel mounting hole
Foro per montaggio a pannello



TU - FR4

FILTER AND PRESSURE REGULATOR
FILTRO E REGOLATORE DI PRESSIONE


Integrated ON OFF version
Versione con valvola ON OFF integrata

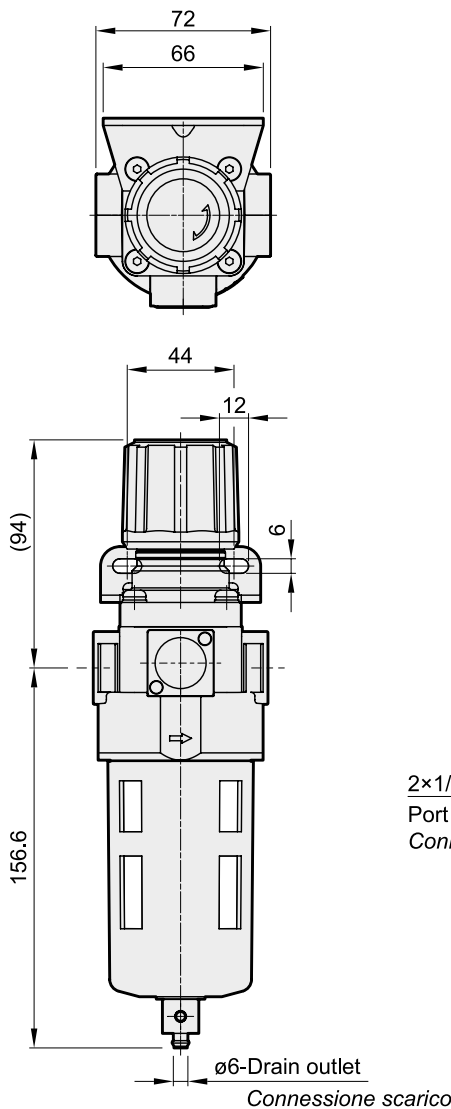
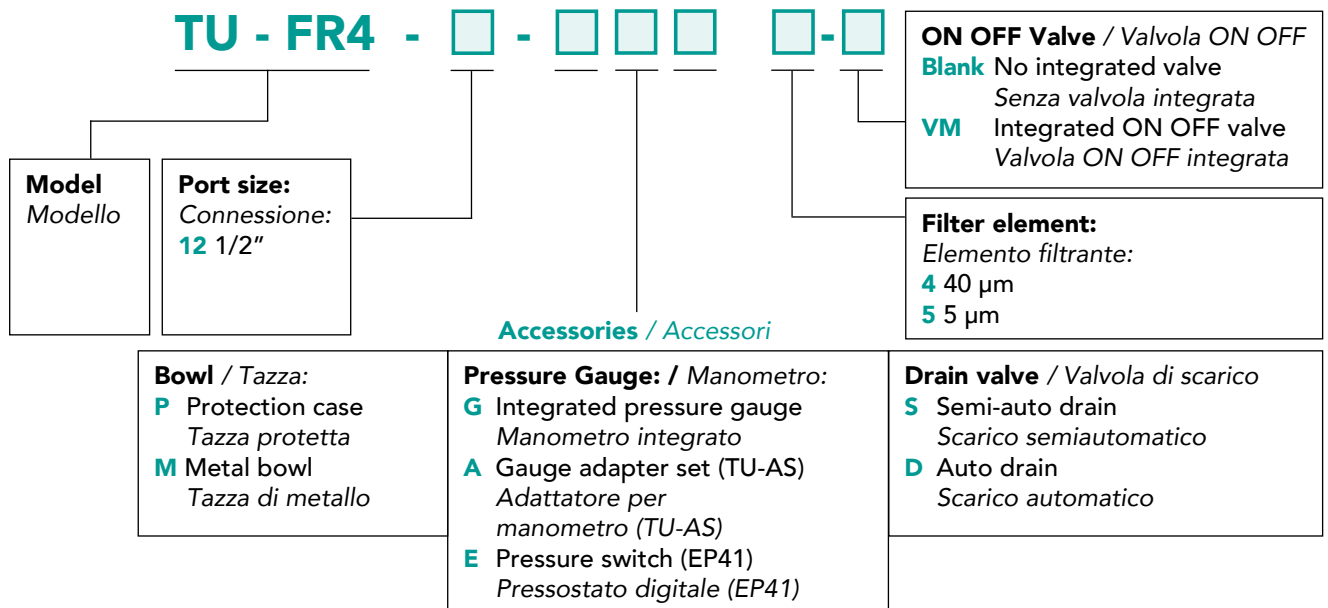

FLOW / PORTATA

Attachment / Accessori


L-type bracket (TU-BFR4)
Staffa a L (TU-BFR4)

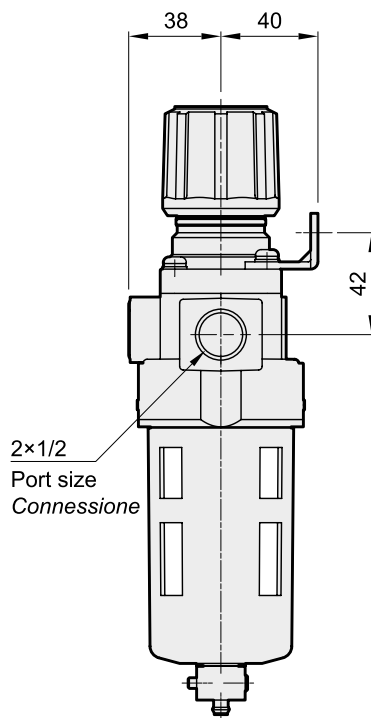
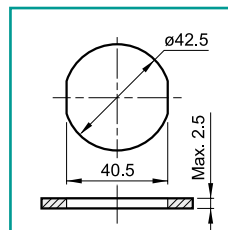
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range <i>Range di pressione operativa</i>	0,5 ~ 10 Bar
Proof pressure <i>Pressione di scoppio</i>	15 Bar
Regulated pressure range <i>Range di regolazione di pressione</i>	0,5 ~ 8,5 Bar
Ambient temperature <i>Temperatura ambiente</i>	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Drain capacity / Capacità tazza	75 cm ³
Attachment / Accessori	Pressure gauge, pressure switch, bracket (TU-BFR4) Manometro, pressostato digitale, staffa (TU-BFR4)
Weight / Peso	620 g

ENCODING / CODIFICA

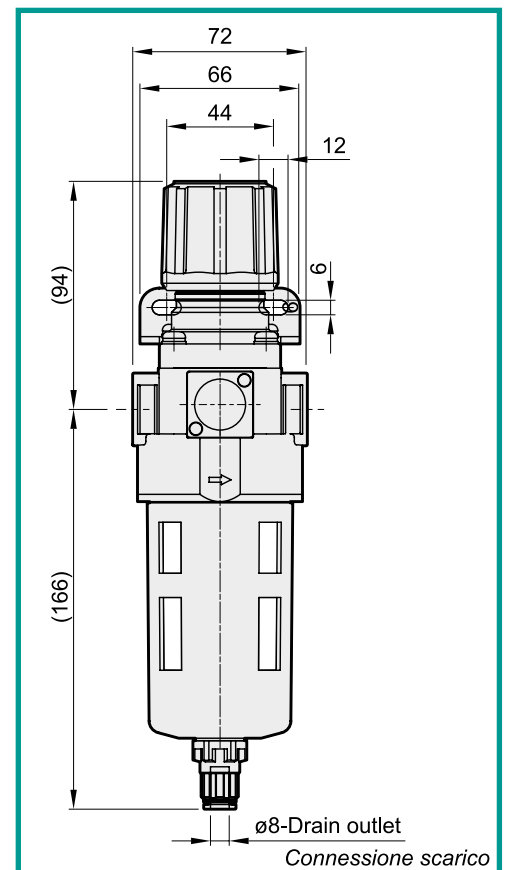


Panel mounting hole
Foro per montaggio a pannello

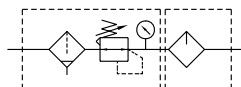


DIMENSIONS / DIMENSIONI

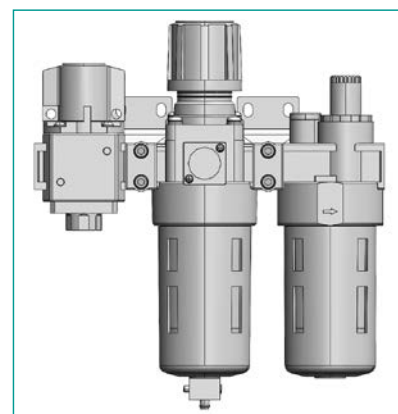
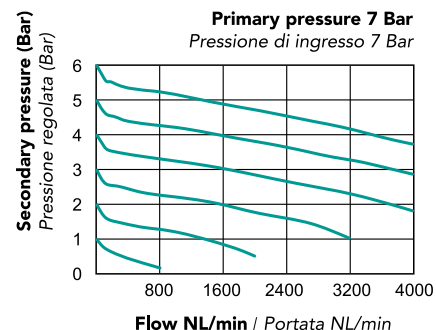
Auto drain
Scarico automatico



TU - FRL4

F.R.L UNIT
UNITÀ F.R.L.

FLOW / PORTATA

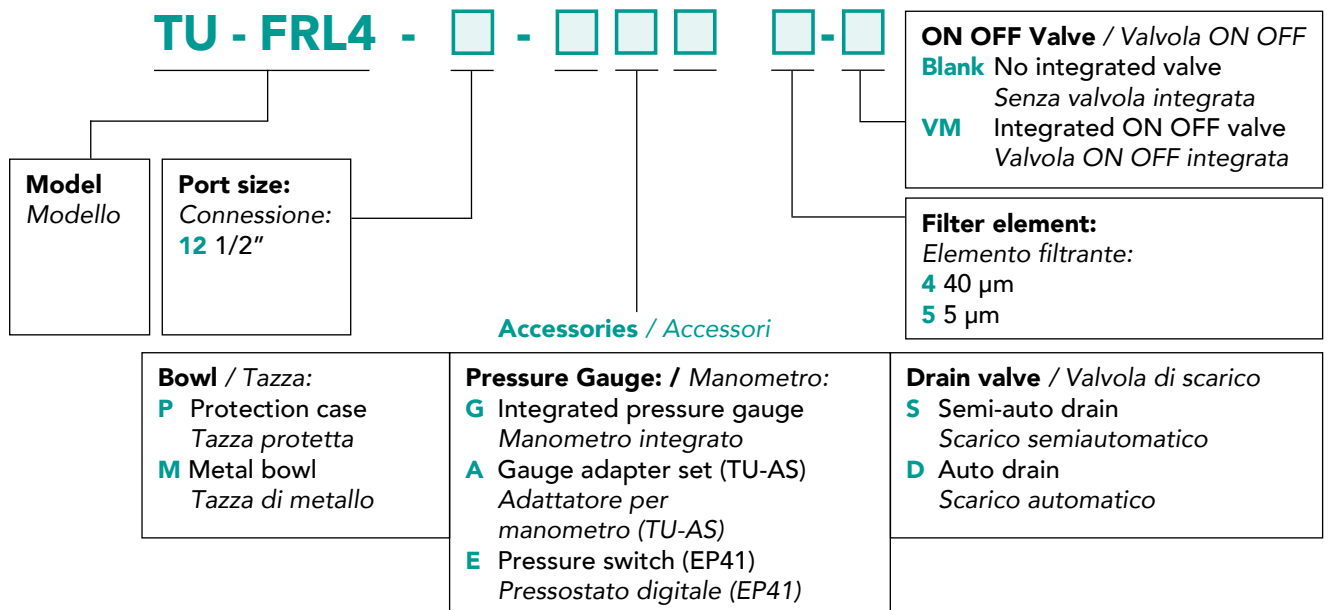


Integrated ON OFF version
Versione con valvola ON OFF integrata

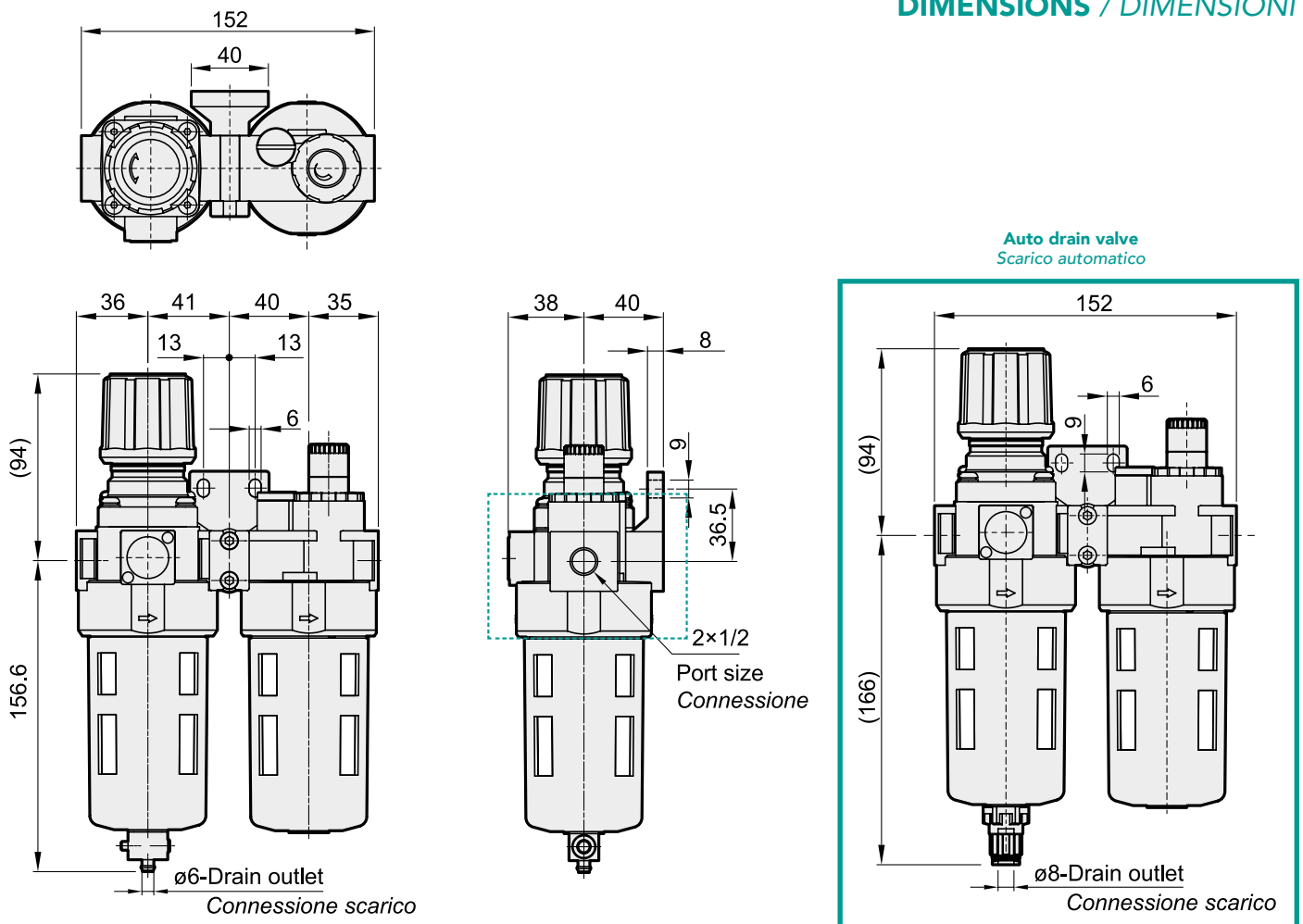
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	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	200 c.c.
Min. flow for oil drip Flusso minimo gocciolamento olio	80 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Attachment / Accessori	Pressure gauge, pressure switch Manometro, pressostato digitale
Weight / Peso	1100 g

ENCODING / CODIFICA



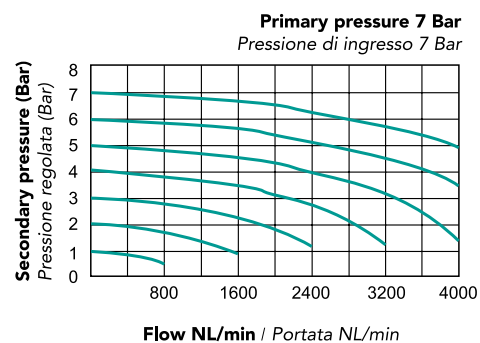
DIMENSIONS / DIMENSIONI



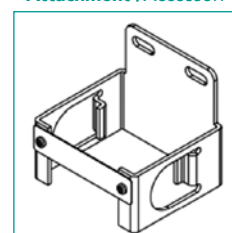
TU - F4

FILTER
FILTRO

FLOW / PORTATA



Attachment / Accessori



C-type bracket (TU-BC4)
Staffa a C (TU-BC4)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

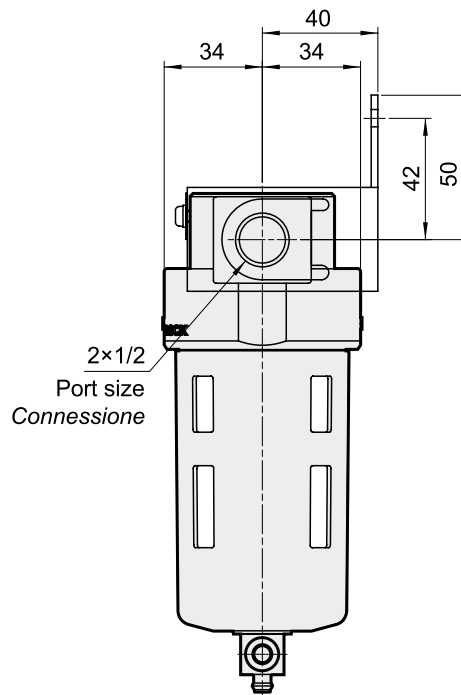
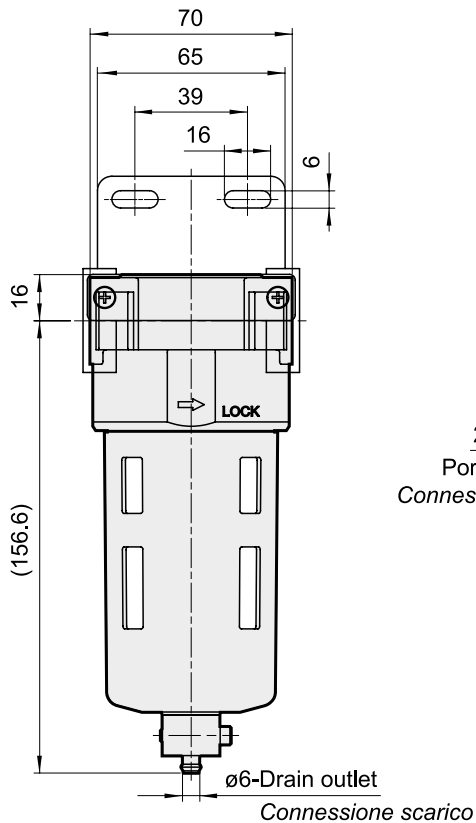
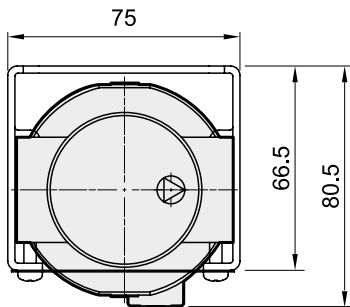
Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Drain capacity / Capacità tazza	75 cm ³
Weight / Peso	345 g
Attachment / Accessori	C-type bracket (TU-BC4) staffa a C (TU-BC4)

ENCODING / CODIFICA

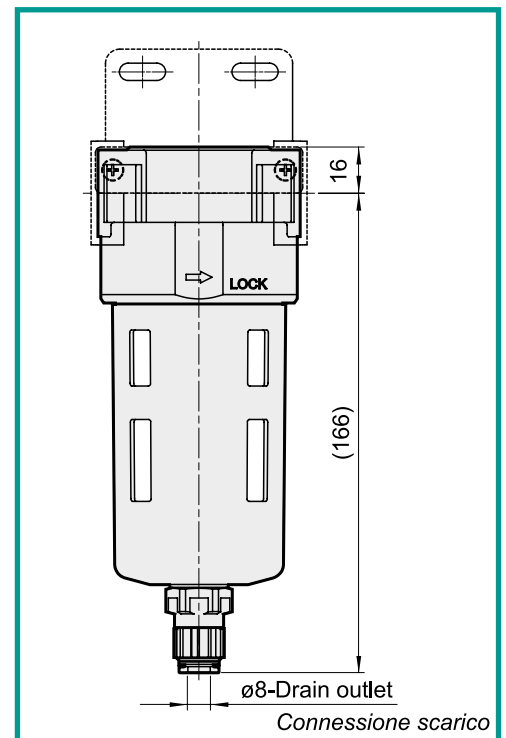
TU - F4 - -

Model Modello	Port size: Connessione: 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: Elemento filtrante: 4 40 µm 5 5 µm
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DIMENSIONS / DIMENSIONI



Auto drain valve
Scarico automatico



TU - MMF4

MICRO-MIST FILTER
FILTRO DISOLEATORE

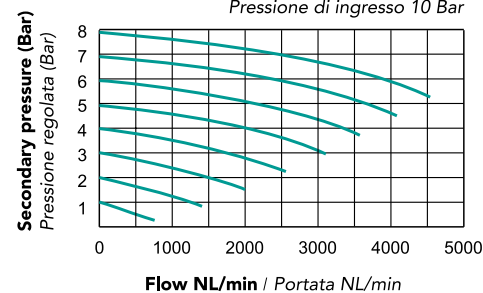
FLOW / PORTATA

0,3 µm

Filter / Filtro

Primary pressure 10 Bar

Pressione di ingresso 10 Bar

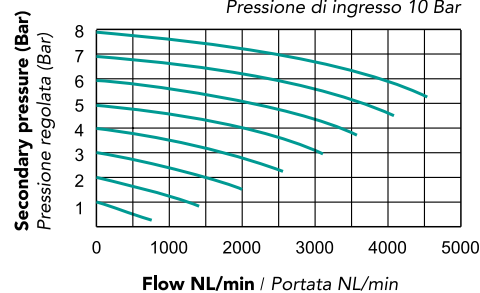


0,01 µm

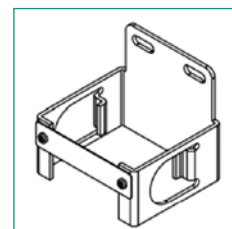
Filter / Filtro

Primary pressure 10 Bar

Pressione di ingresso 10 Bar



Attachment / Accessori

C-type bracket (TU-BC4)
Staffa a C (TU-BC4)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

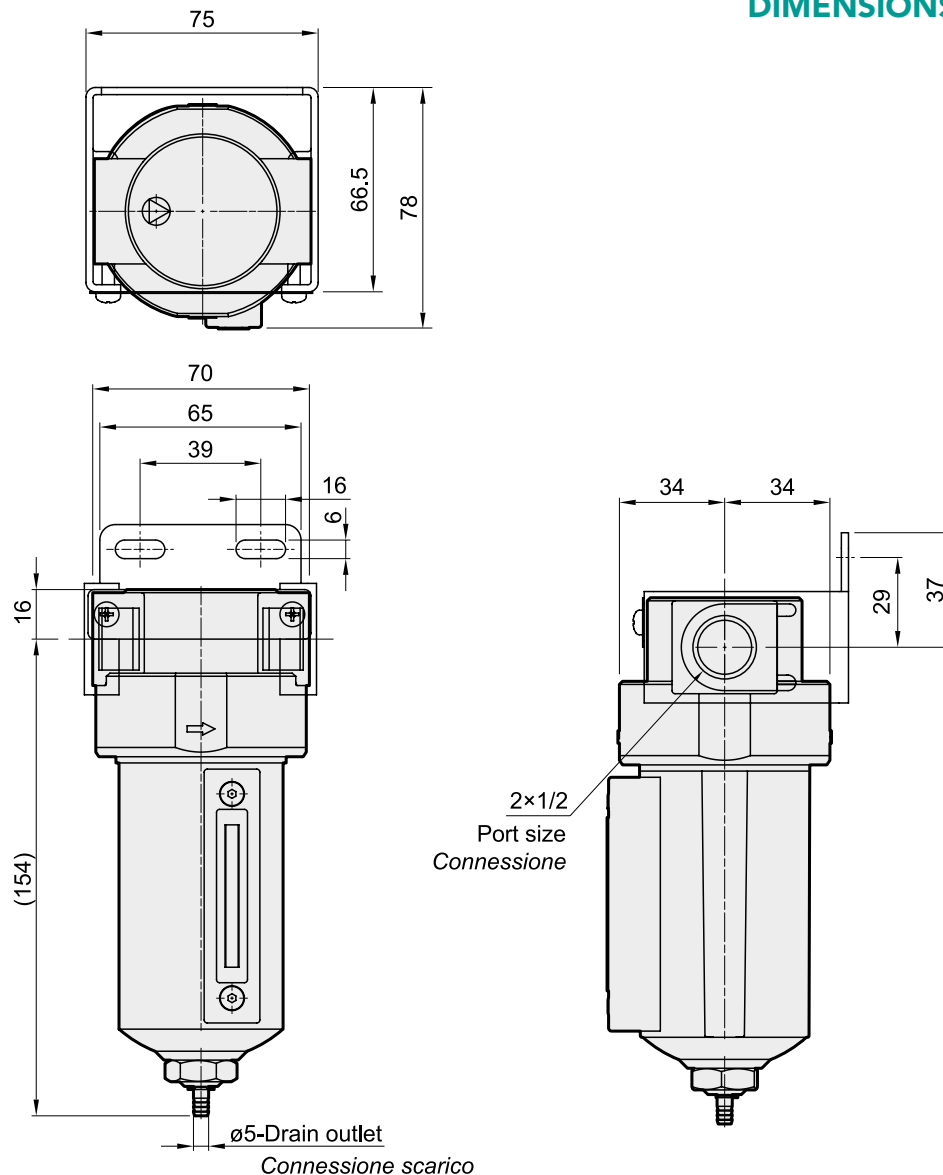
Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	20 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Version - Versione: 0,3 µm Version - Versione: 0,01 µm
Drain capacity / Capacità tazza	70 cm ³
Weight / Peso	480 g
Attachment / Accessori	C-type bracket (TU-BC4) staffa a C (TU-BC4)

ENCODING / CODIFICA

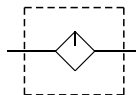
TU - MMF4 - - M

Model Modello	Port size: Connessione: 12 1/2"	Bowl /Tazza: 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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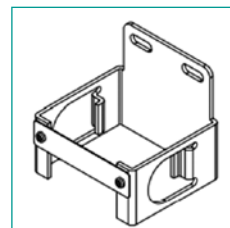
DIMENSIONS / DIMENSIONI



TU - L4

LUBRICATOR
LUBRIFICATORE

Attachment / Accessori

C-type bracket (TU-BC4)
Staffa a C (TU-BC4)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	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	200 cc (L)
Min. flow for oil drip Flusso minimo gocciolamento olio	80 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Weight / Peso	410 g
Attachment / Accessori	C-type bracket (TU-BC4) staffa a C (TU-BC4)

ENCODING / CODIFICA

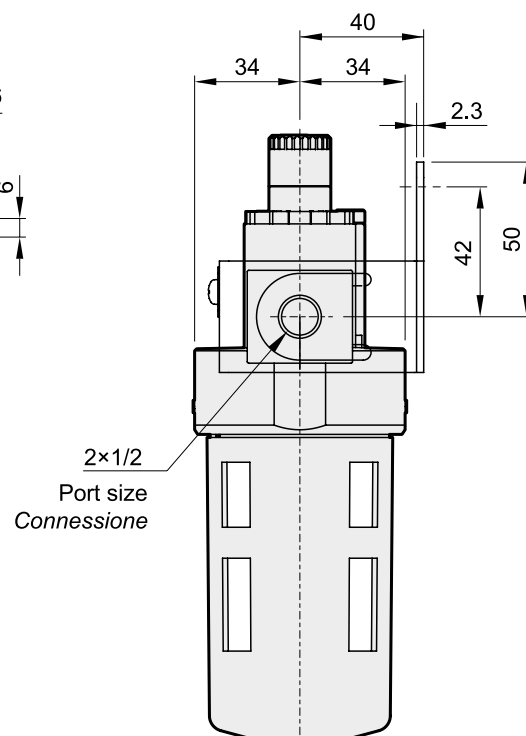
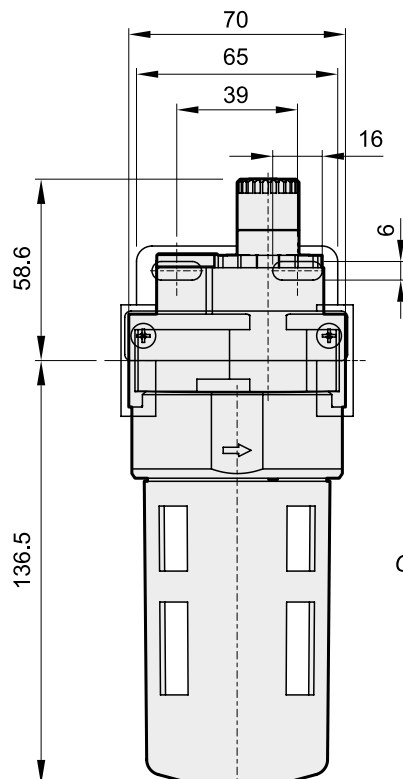
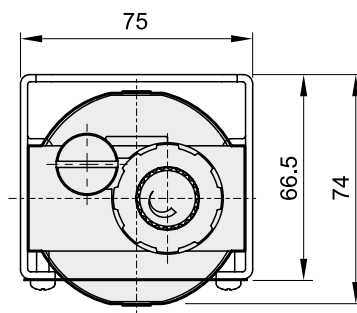
TU - L4 - -

Model
Modello

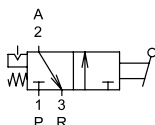
Port size:
Connessione:
12 1/2"

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

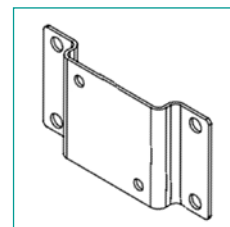
DIMENSIONS / DIMENSIONI



TU - VM4

ON OFF VALVE
VALVOLA ON OFF

Attachment / Accessori

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

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	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)
Attachment / Accessori	Bracket (TU-BVM) Staffa (TU-BVM)
Weight / Peso	311 g

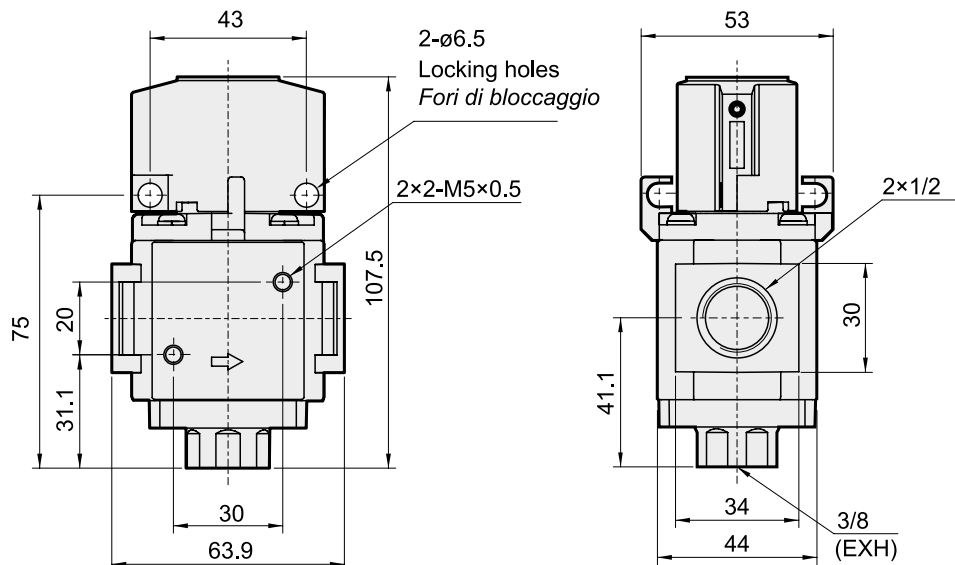
ENCODING / CODIFICA

TU - VM4 - 

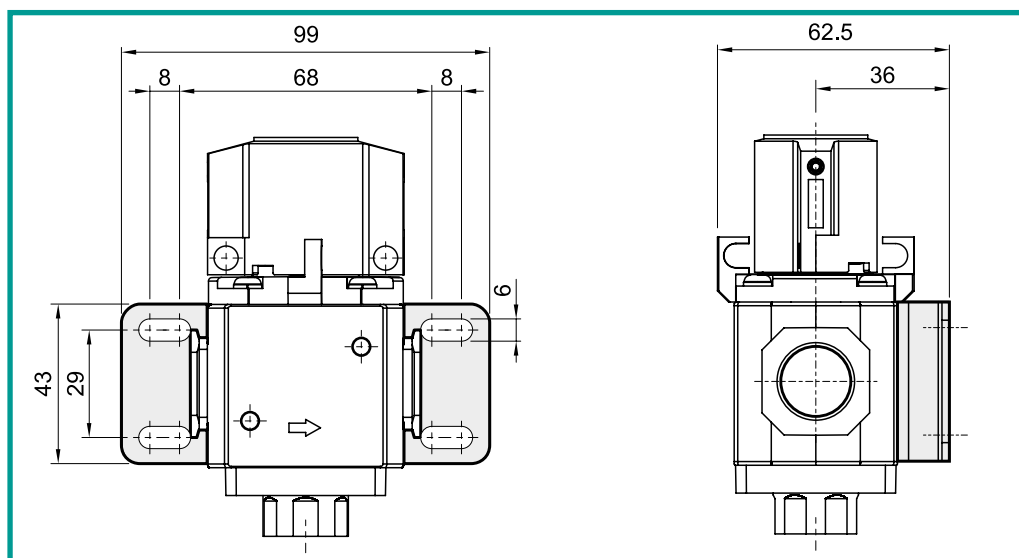
Model
Modello

Port size:
Connessione:
12 1/2"

DIMENSIONS / DIMENSIONI



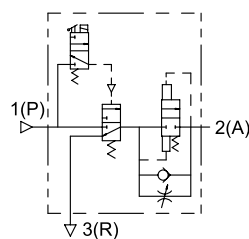
Accessories / Accessori



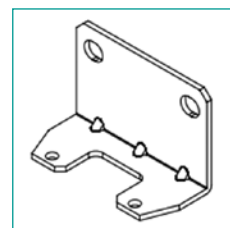
TU - VS4

SLOW START / SHUT-OFF VALVE
VALVOLA DI AVVIAMENTO PROGRESSIVO

FLOW / PORTATA



Attachment / Accessori

L-type bracket (TU-BVS4)
Staffa a L (TU-BVS4)*Pressure gauge to be ordered separately
*Il manometro è da ordinare a parte

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1/2"
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)
Attachment / Accessori	Pressure gauge, L-type bracket (TU-BVS4) Manometro, staffa tipo L (TU-BVS4)
Weight / Peso	800 g

ENCODING / CODIFICA

TU - VS4 - -

Model
Modello

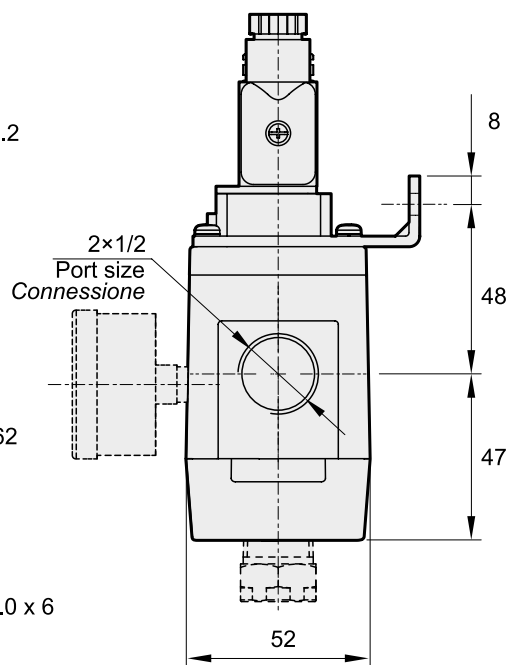
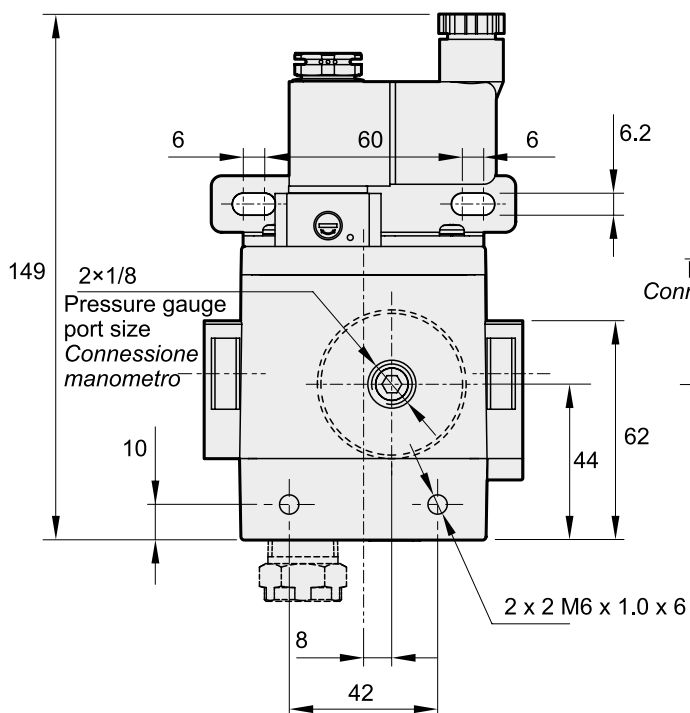
Port size:
Connessione:
12 1/2"

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

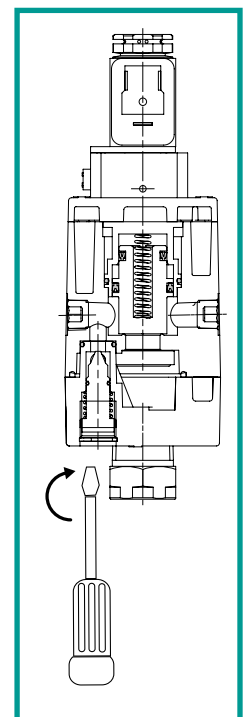
COIL / BOBINA

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

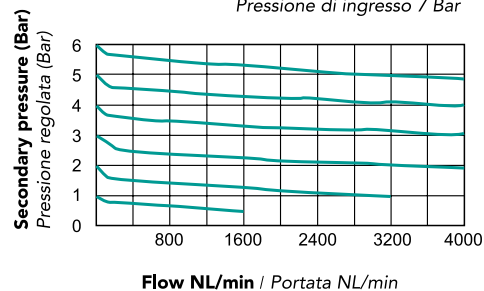


TU - R4H

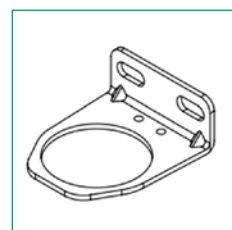
HIGH PRESSURE REGULATOR
REGOLATORE DI ALTA PRESSIONE

FLOW / PORTATA

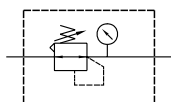
Primary pressure 7 Bar
Pressione di ingresso 7 Bar



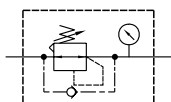
Attachment / Accessori



L-type bracket (TU-BL4)
Staffa a L (TU-BL4)



Standard / standard



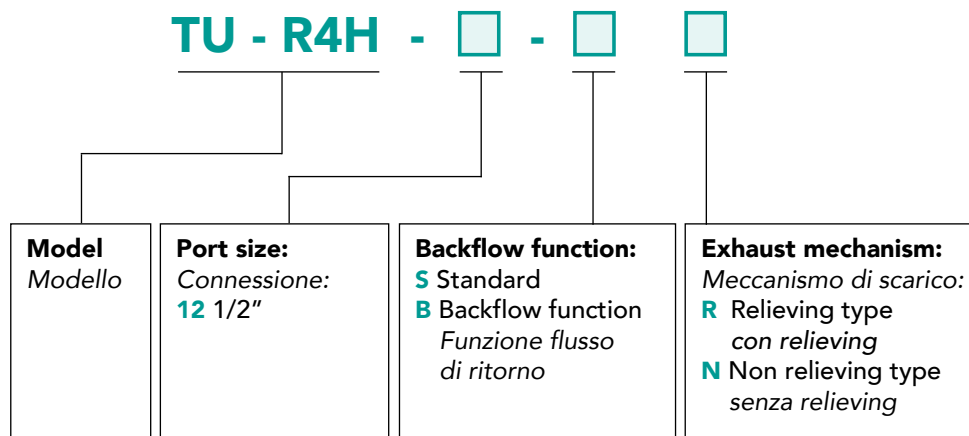
Backflow / flusso di ritorno

*Pressure gauge to be ordered separately
*Il manometro è da ordinare a parte

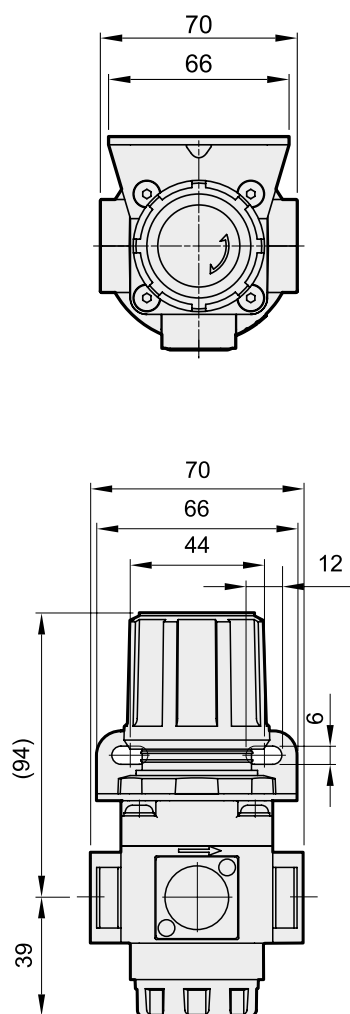
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	15 Bar
Proof pressure Pressione di scoppio	20 Bar
Regulated pressure range Range di regolazione di pressione	1 ~ 15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Attachment / Accessori	Pressure gauge, bracket (TU-BL4) Manometro, staffa (TU-BL4)
Weight / Peso	450 g

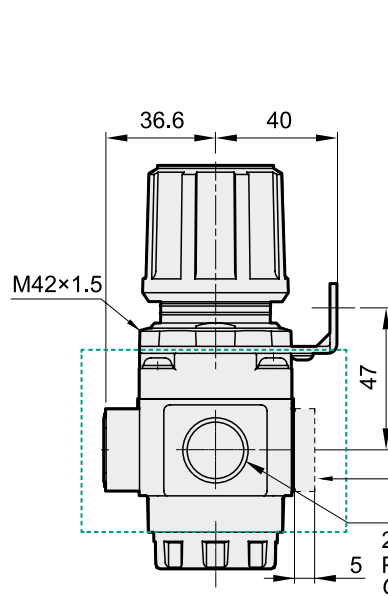
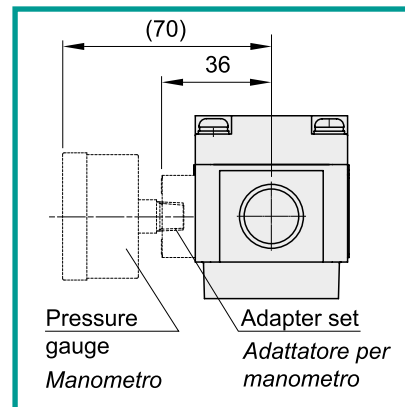
ENCODING / CODIFICA



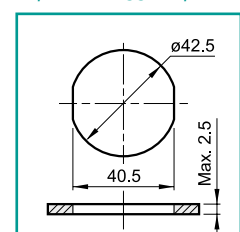
DIMENSIONS / DIMENSIONI



Accessories / Accessori

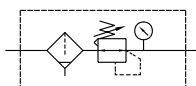
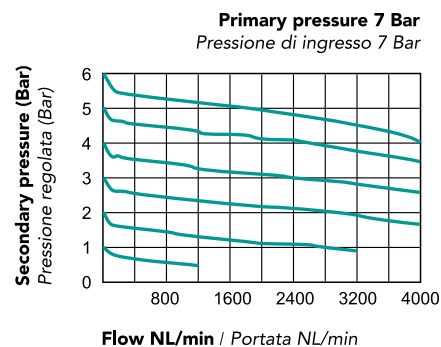
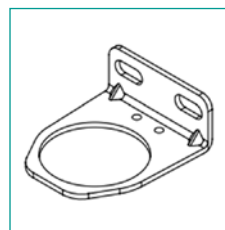
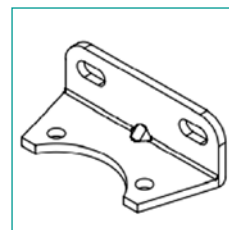


Panel mounting hole
Foro per montaggio a pannello



Backflow function
Funzione flusso di ritorno

TU - FR4H

FILTER AND HIGH-PRESSURE REGULATOR
FILTRO E REGOLATORE DI ALTA PRESSIONE

FLOW / PORTATA

Attachment / Accessori

L-type bracket (TU-BL4)
 Staffa a L (TU-BL4)

L-type bracket (TU-BFR4)
 Staffa a L (TU-BFR4)

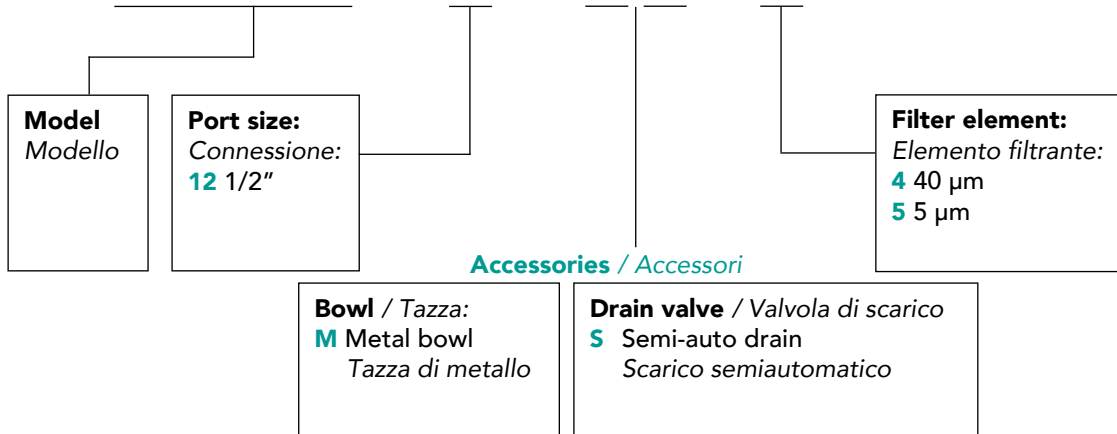
***Pressure gauge to be ordered separately**
 *Il manometro è da ordinare a parte

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 15 Bar
Proof pressure Pressione di scoppio	20 Bar
Regulated pressure range Range di regolazione di pressione	1 ~ 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	70 cm ³
Attachment / Accessori	Pressure gauge, bracket (TU-BFR4) Manometro, staffa (TU-BFR4)
Weight / Peso	800 g

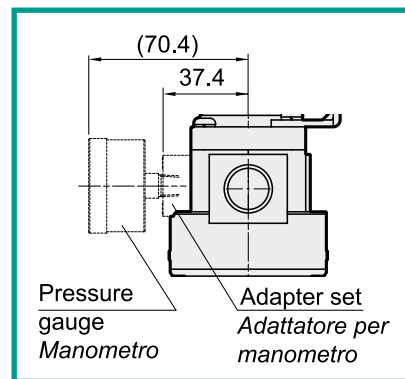
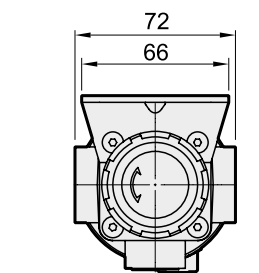
ENCODING / CODIFICA

TU - FR4H - 12 - M

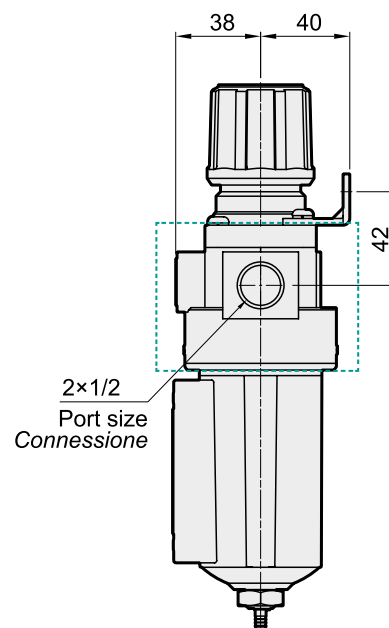
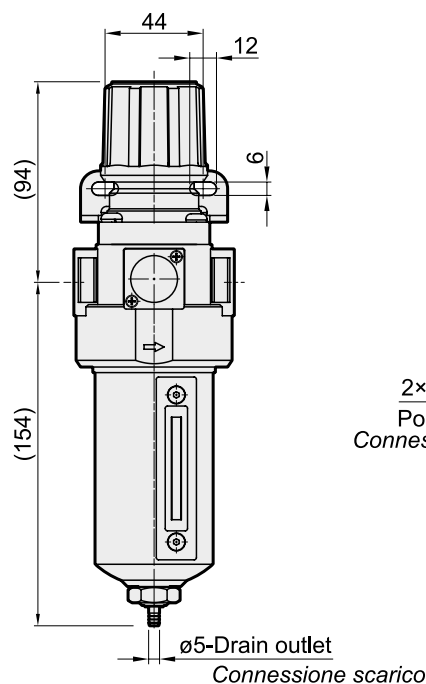
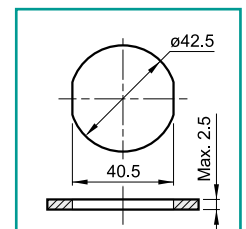


DIMENSIONS / DIMENSIONI

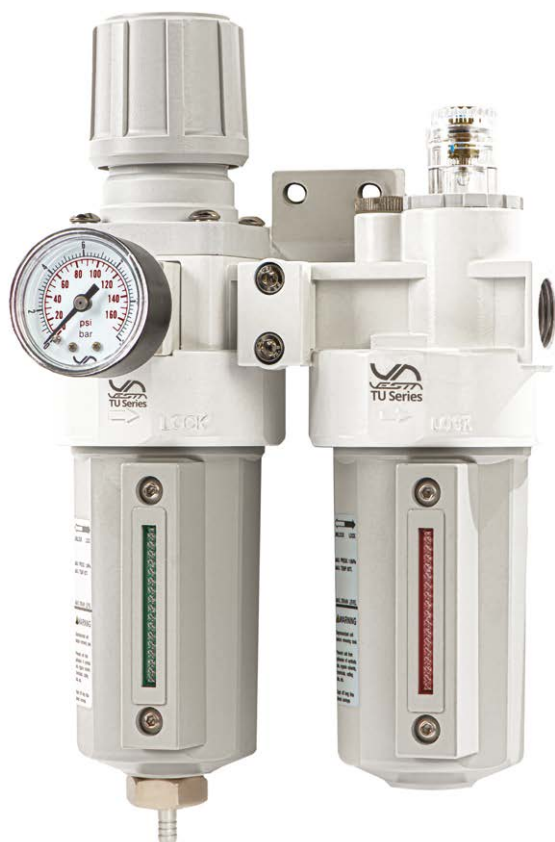
Accessories / Accessori



Panel mounting hole
Foro per montaggio a pannello

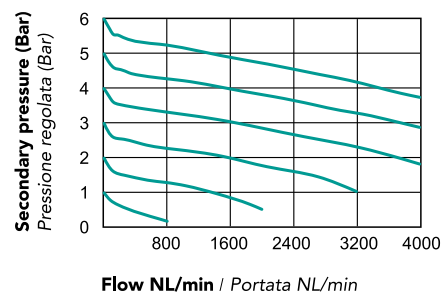


TU - FRL4H

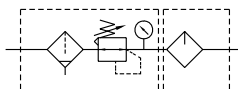
F.R.L UNIT
UNITÀ F.R.L.

FLOW / PORTATA

Primary pressure 7 Bar
Pressione di ingresso 7 Bar



*Pressure gauge to be ordered separately
*Il manometro è da ordinare a parte

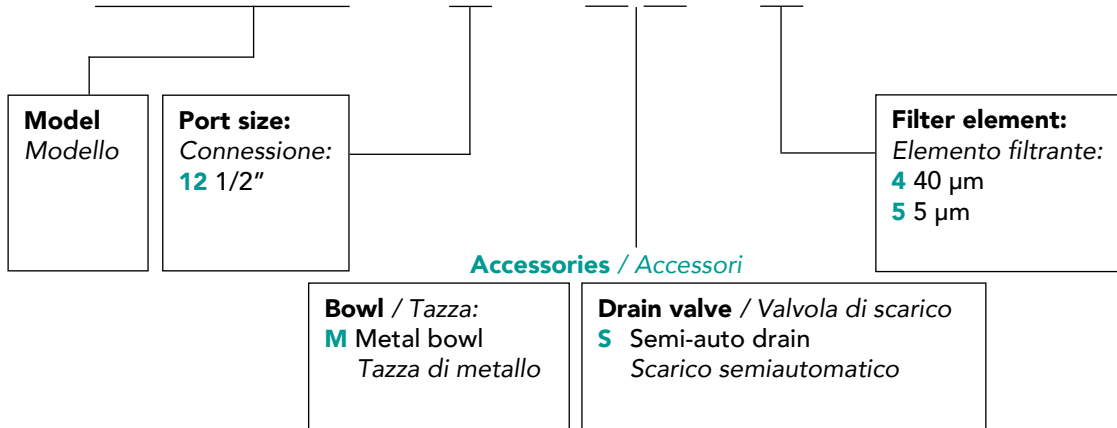


TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

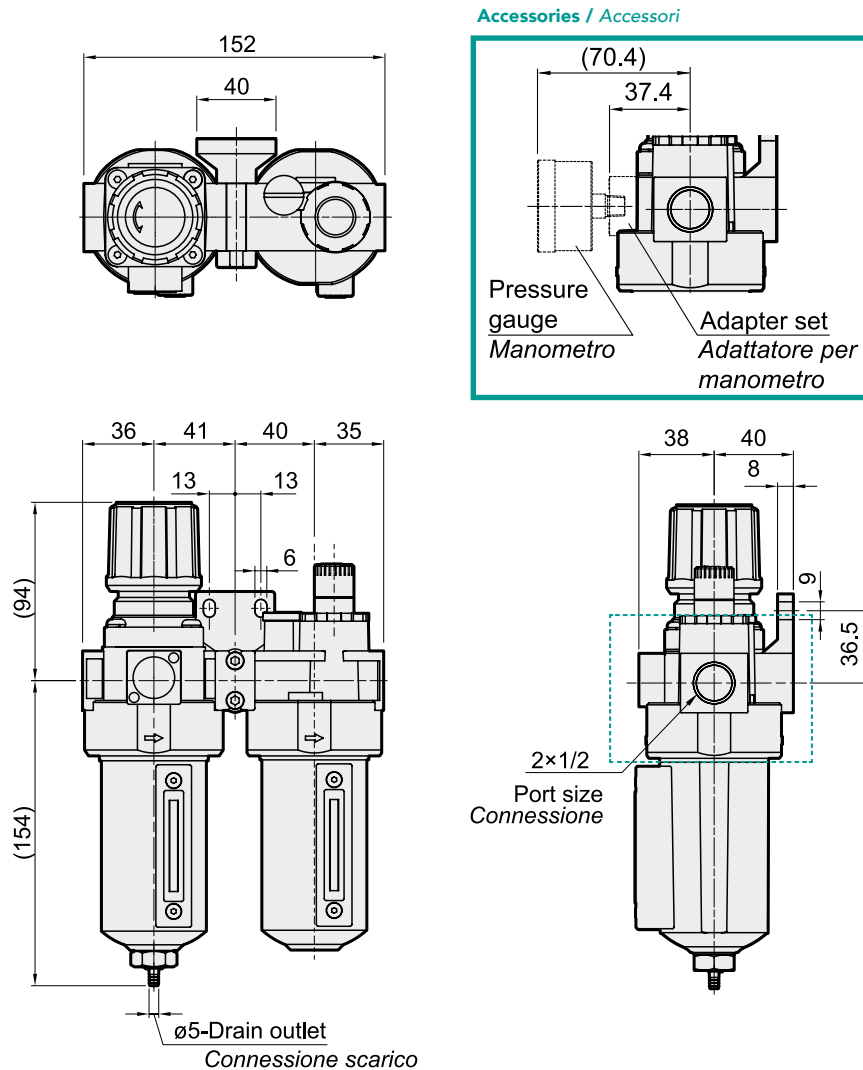
Port size / Connessione	G 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 15 Bar
Proof pressure Pressione di scoppio	20 Bar
Regulated pressure range Range di regolazione di pressione	1 ~ 15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	Standard - Standard: 40 µm Option - Opzione: 5 µm
Lubricating oil capacity / Capacità tazza olio	200 c.c.
Min. flow for oil drip Flusso minimo gocciolamento olio	80 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Attachment / Accessori	Pressure gauge Manometro
Weight / Peso	1518 g

ENCODING / CODIFICA

TU - FRL4H - 12 - M



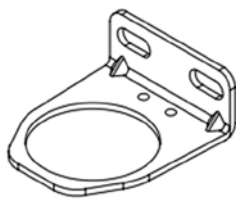
DIMENSIONS / DIMENSIONI



ACCESSORIES FOR TU - 4 AND TU -4H

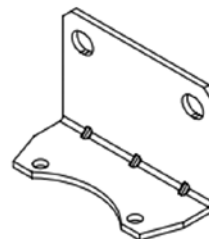
ACCESSORI PER TU - 4 E TU - 4H

TU - BL4



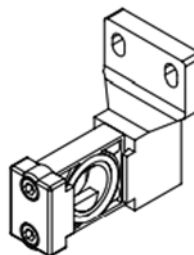
L Bracket for TU - R4 and TU - R4H
Staffa a L per TU - R4 and TU - R4H

TU - BFR4



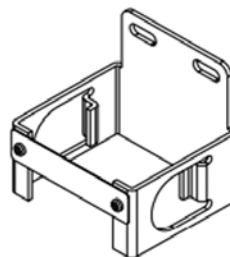
Bracket for TU - FR4 and TU - FR4H
Staffa per TU - FR4 and TU - FR4H

TU - BT4



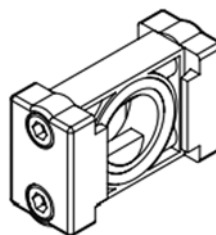
T Bracket and joiner
Staffa a T a giunzione

TU - BC4



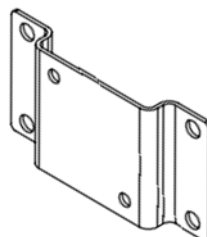
C Bracket for F, MMF and L units
Staffa a C per unità F, MMF e L

TU - BS4



Joiner unit
Giunzione

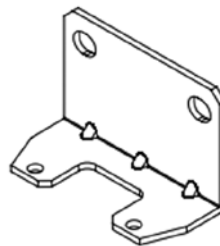
TU - BVM



Bracket for TU VM 4
Staffa per TU VM 4

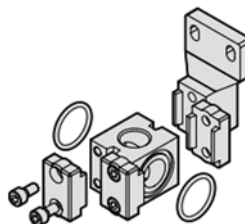
TU - BVS4

Bracket fot TU VS 4
Staffa per TU VS 4



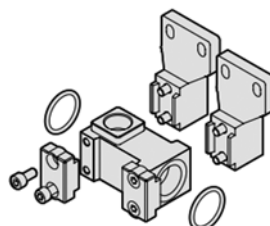
TU - T4 - 12

Module mounting bracket
Blocchetto di derivazione



TU - K4 - 38

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



TU - FE4

40 micron filter
Filtro 40 micron

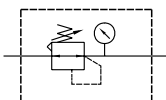


TU - FX4

5 micron filter
Filtro 5 micron



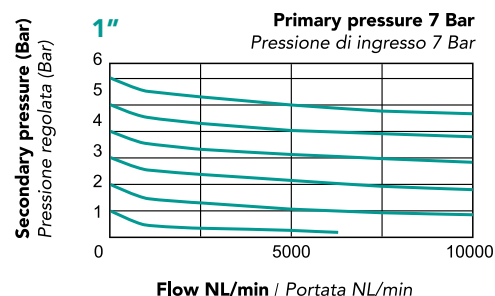
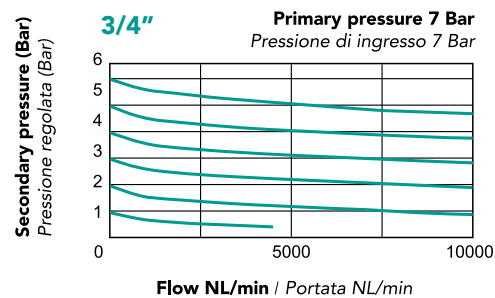
TU - R5

PRESSURE REGULATOR
REGOLATORE DI PRESSIONE

*Panel nut to be ordered separately

*Il dado del pannello è da ordinare a parte

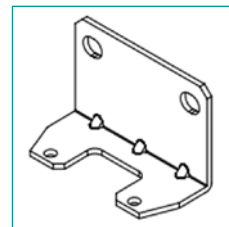
FLOW / PORTATA



Attachment / Accessori



Panel nut (TU-J5)
Dado del pannello (TU-J5)



L-type bracket (TU-BL5)
Staffa a L (TU-BL5)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 3/4" G 1"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	15 Bar
Proof pressure Pressione di scoppio	20 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Repeatability Ripetibilità	± 7% F.S.
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Attachment / Accessori	Pressure gauge, L-type bracket (TU-BL5) Manometro, staffa di tipo L (TU-BL5)
Weight / Peso	1460 g

ENCODING / CODIFICA

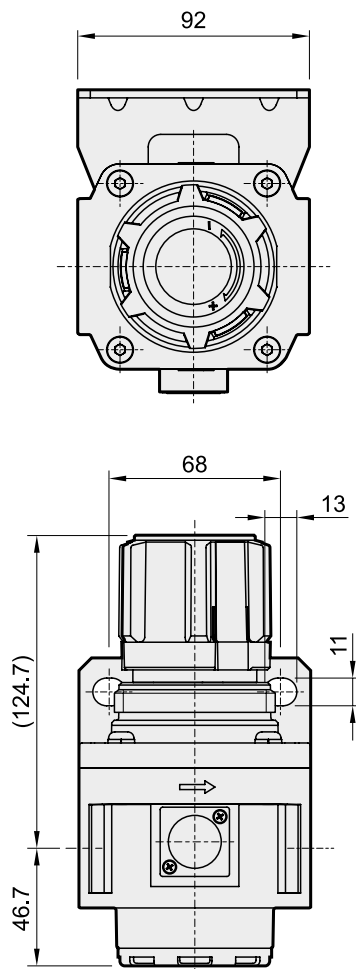
TU - R5 -  - 

Model
Modello

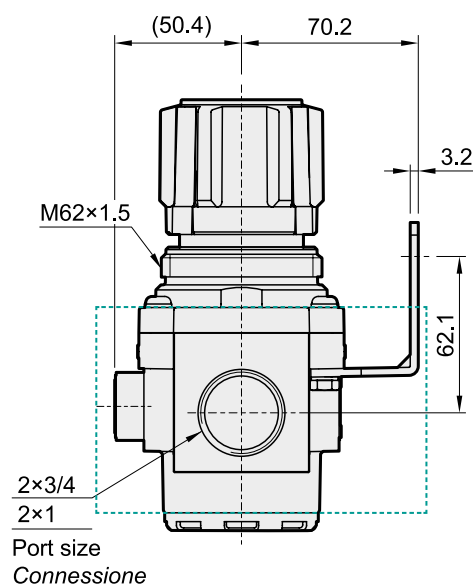
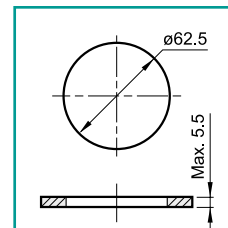
Port size:
Connessione:
34 3/4"
10 1"

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)

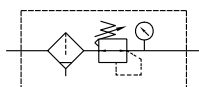
DIMENSIONS / DIMENSIONI



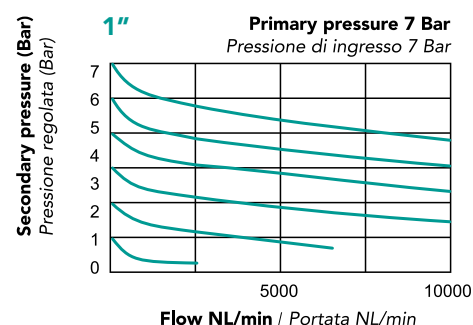
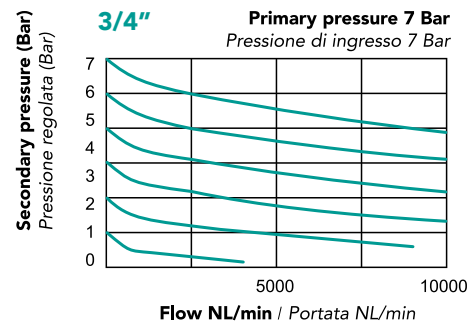
Panel mounting hole
Foro per montaggio a pannello



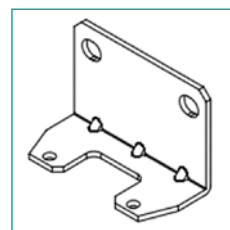
TU - FR5

FILTER AND PRESSURE REGULATOR
FILTRO E REGOLATORE DI PRESSIONE


***Panel nut to be ordered separately**
**Il dado del pannello è da ordinare a parte*

FLOW / PORTATA

Attachment / Accessori


Panel nut (TU-J5)
Dado del pannello (TU-J5)



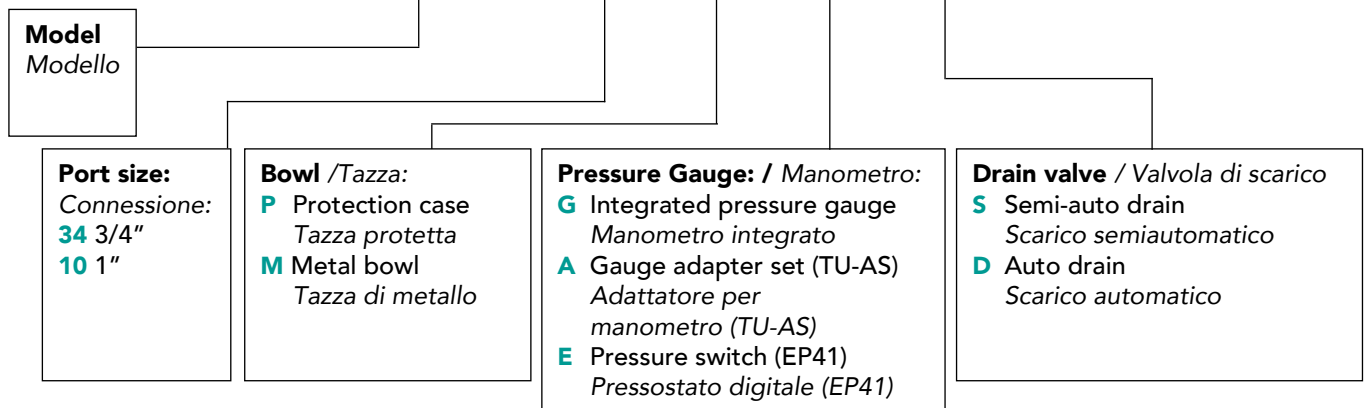
L-type bracket (TU-BL5)
Staffa a L (TU-BL5)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

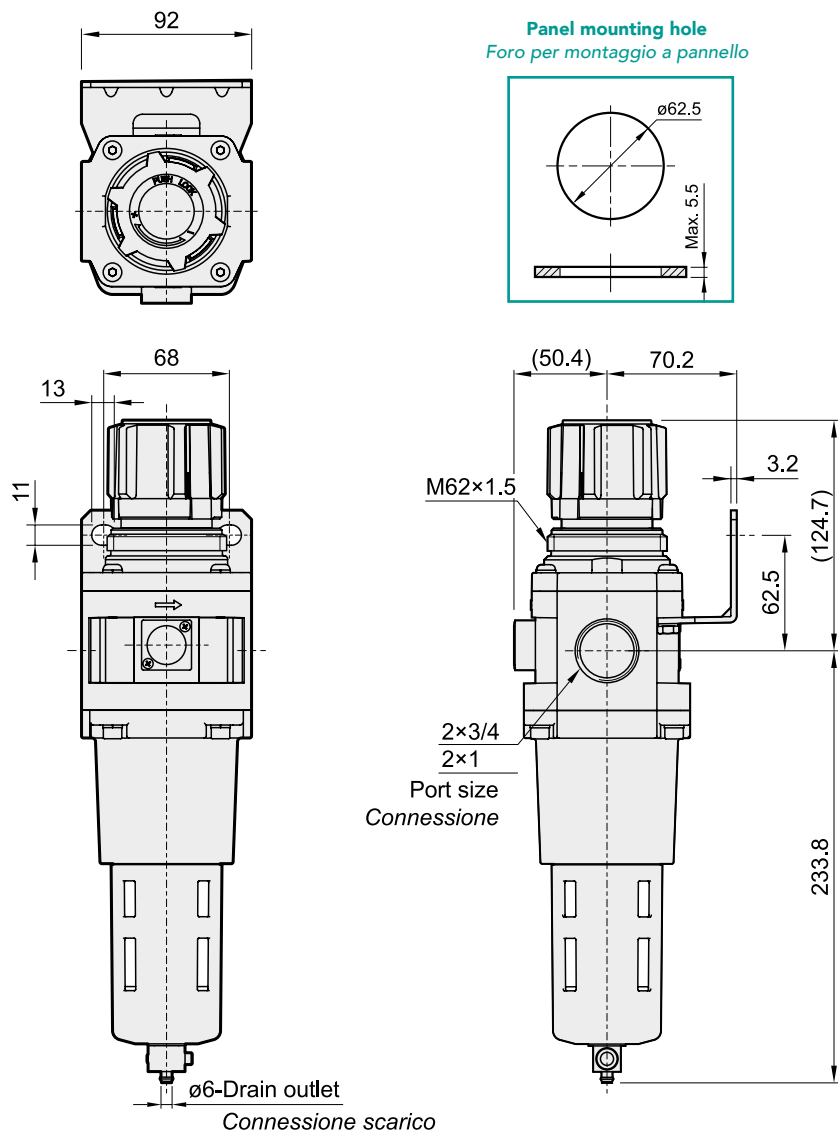
Port size / Connessione	G 3/4" G 1"
Fluid / Fluido	Air / Aria
Operating pressure range <i>Range di pressione operativa</i>	PC bowl / Tazza protetta: 0,5 ~ 10 Bar Metal bowl / Tazza in metallo: 0,5 ~ 20 Bar
Proof pressure <i>Pressione di scoppio</i>	PC bowl / Tazza protetta: 15 Bar Metal bowl / Tazza in metallo: 20 Bar
Regulated pressure range <i>Range di regolazione di pressione</i>	1 ~ 8,5 Bar
Ambient temperature <i>Temperatura ambiente</i>	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	40 µm
Drain capacity / Capacità tazza	PC bowl / Tazza protetta: 75 cm³ Metal bowl / Tazza in metallo: 70 cm³
Attachment / Accessori	Pressure gauge, L-type bracket (TU-BL5) Manometro, staffa di tipo L (TU-BL5)
Weight / Peso	PC bowl / Tazza protetta: 1940 g Metal bowl / Tazza in metallo: 2060 g

ENCODING / CODIFICA

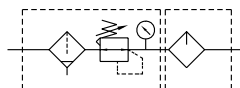
TU - FR5 - ☐ - ☐ ☐ ☐



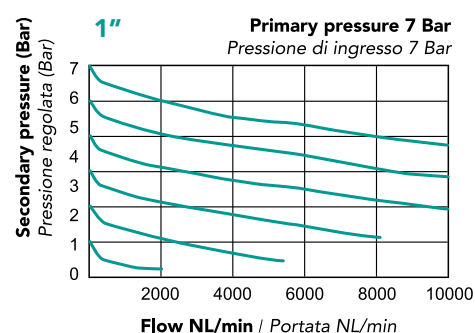
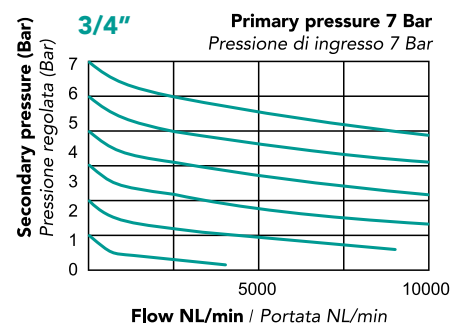
DIMENSIONS / DIMENSIONI



TU - FRL5

F.R.L UNIT
UNITÀ F.R.L.

FLOW / PORTATA



TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

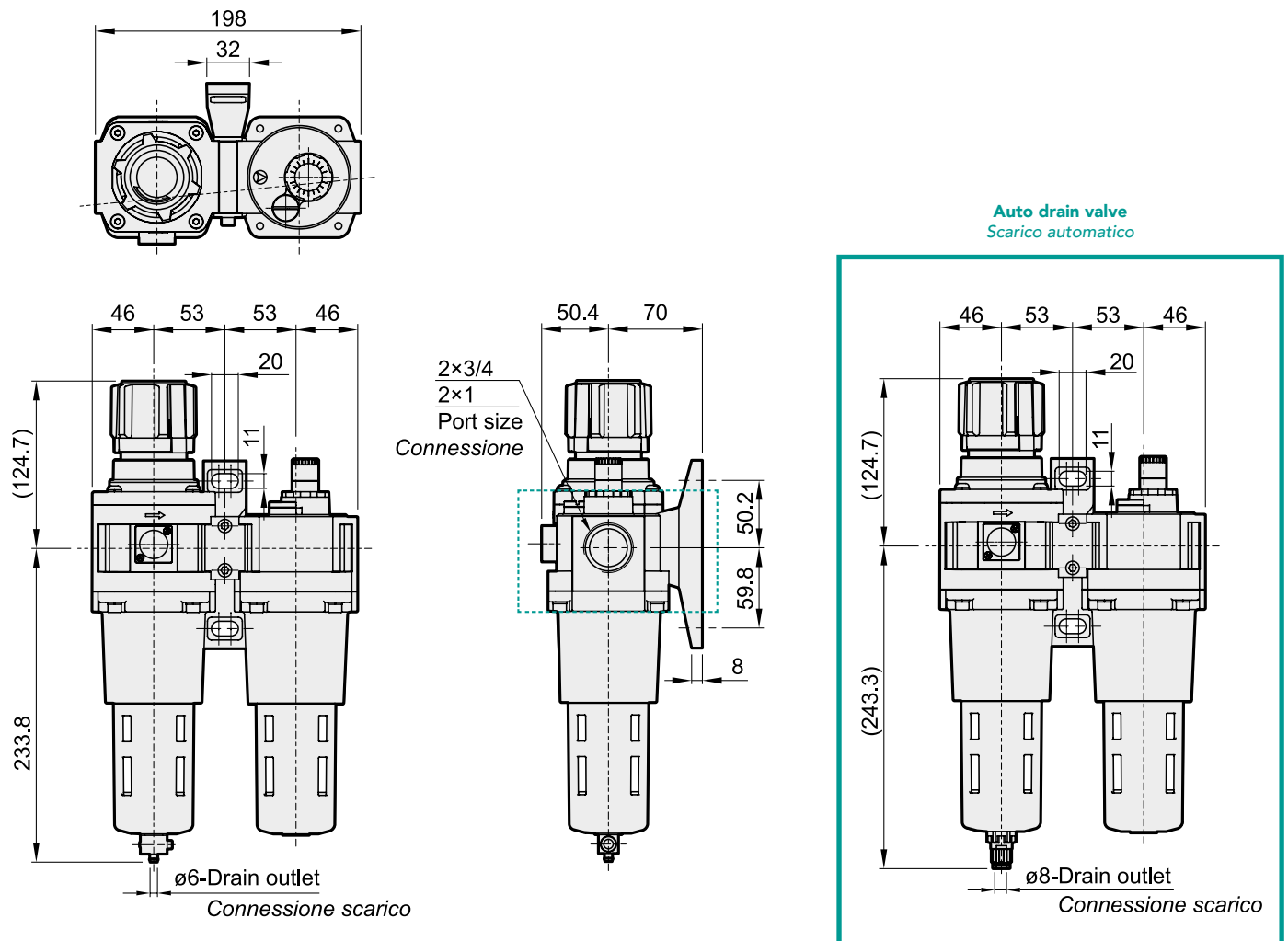
Port size / Connessione	G 3/4" G 1"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	1,5 Bar
Regulated pressure range Range di regolazione di pressione	0,5 ~ 8,5 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element / Elemento filtrante	40 µm
Lubricating oil capacity / Capacità tazza olio	200 c.c.
Min. flow for oil drip Flusso minimo gocciolamento olio	25 L/min 33 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Attachment / Accessori	Pressure gauge Manometro
Weight / Peso	PC bowl / Tazza protetta: 3480 g Metal bowl / Tazza in metallo: 3720 g

ENCODING / CODIFICA

TU - FRL5 - -

Model Modello				
Port size: Connessione: 34 3/4" 10 1"		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

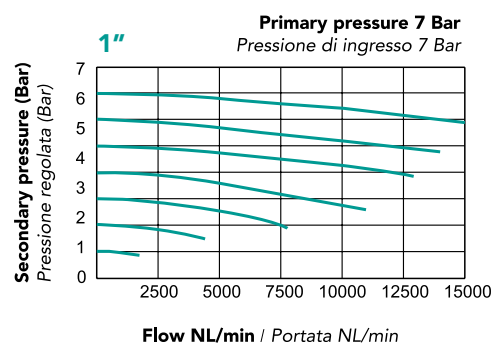
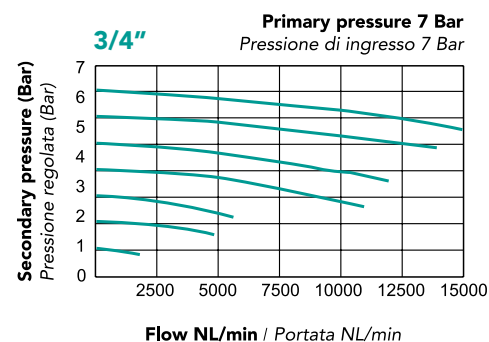
DIMENSIONS / DIMENSIONI



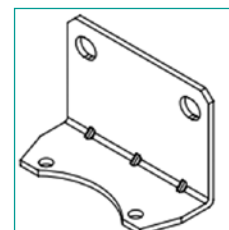
TU - F5

FILTER
FILTRO

FLOW / PORTATA



Attachment / Accessori



L-type bracket (TU-BC5)
Staffa a L (TU-BC5)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

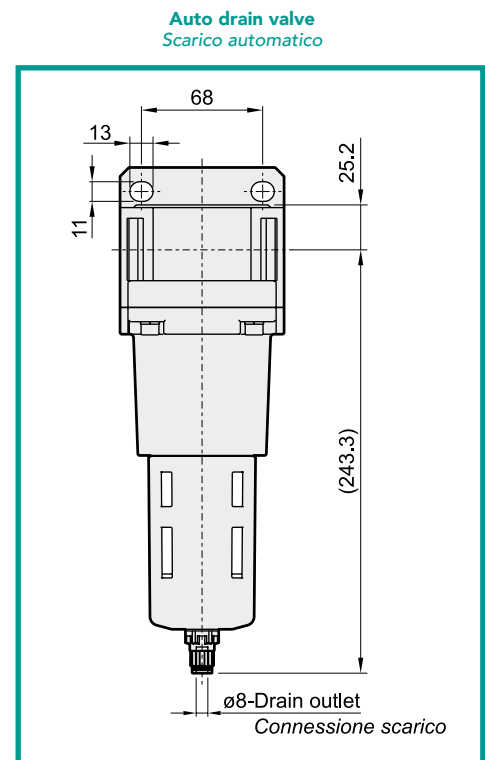
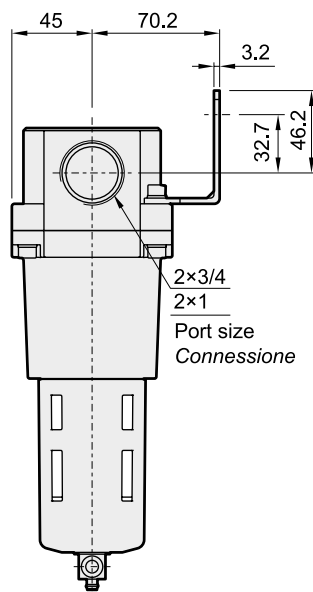
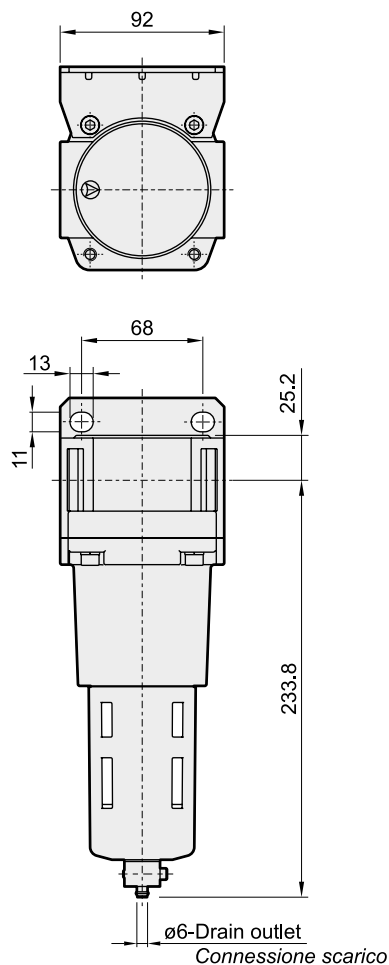
Port size / Connessione	G 3/4" G 1"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	PC bowl / Tazza protetta: 15 Bar Metal bowl / Tazza in metallo: 20 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Filter element Elemento filtrante	40 µm
Drain capacity / Capacità di scarico	PC bowl / Tazza protetta: 75 cm ³ Metal bowl / Tazza in metallo: 70 cm ³
Weight / Peso	PC bowl / Tazza protetta: 1180 g Metal bowl / Tazza in metallo: 1300 g
Attachment / Accessori	C-type bracket (TU-BC5) Staffa a C (TU-BC5)

ENCODING / CODIFICA

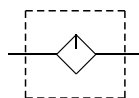
TU - F5 - -

Model <i>Modello</i>	Port size: <i>Connessione:</i> 34 3/4" 10 1"	Bowl /Tazza: P Protection case <i>Tazza protetta</i> M Metal bowl <i>Tazza di metallo</i>	Drain valve / Valvola di scarico S Semi-auto drain <i>Scarico semiautomatico</i> D Auto drain <i>Scarico automatico</i>
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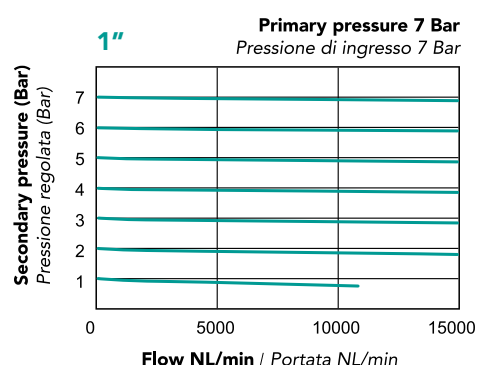
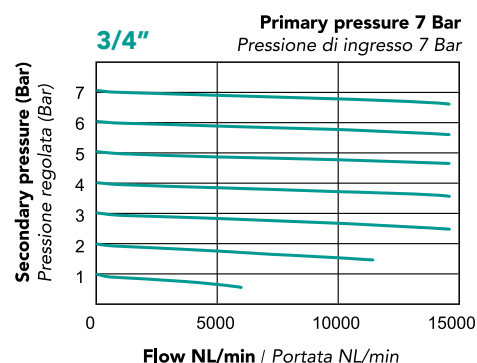
DIMENSIONS / DIMENSIONI



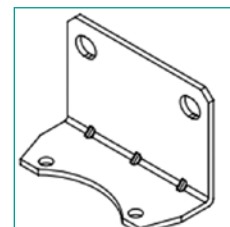
TU - L5

LUBRICATOR
LUBRIFICATORE

FLOW / PORTATA



Attachment / Accessori

L-type bracket (TU-BC5)
Staffa a L (TU-BC5)

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

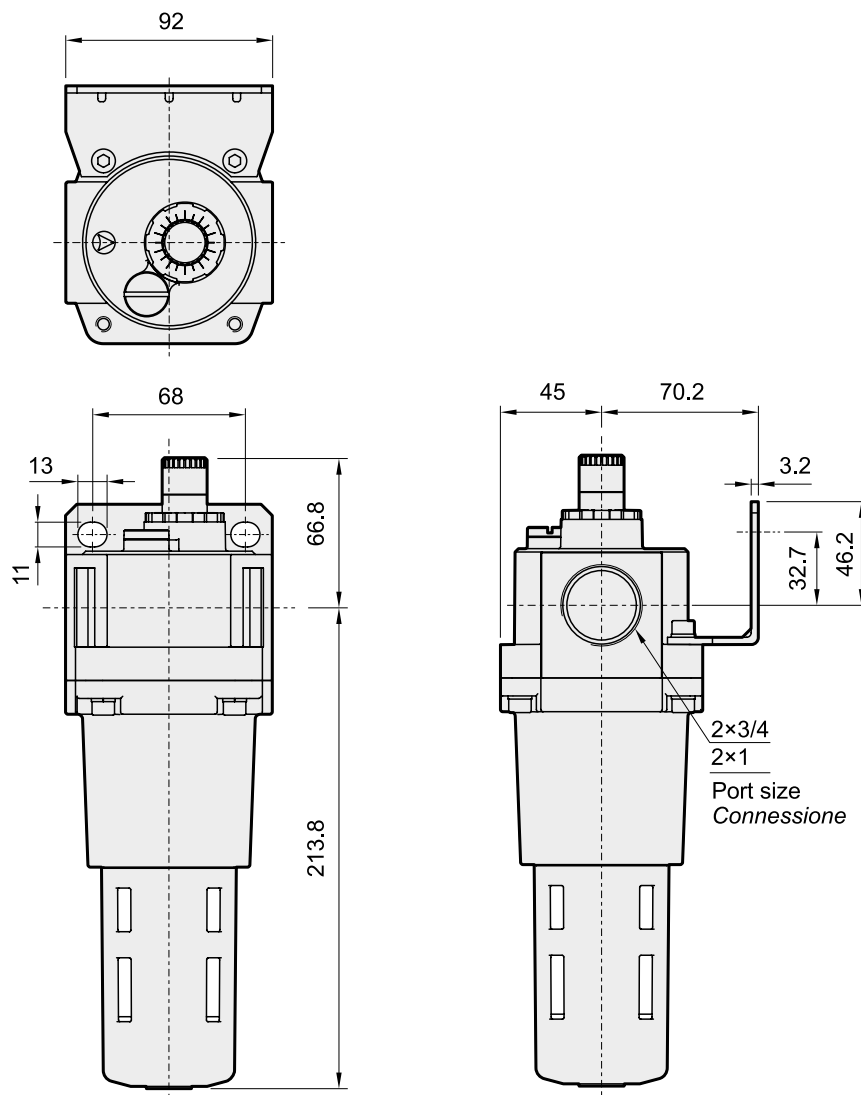
Port size / Taglia	G 3/4" G 1"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 10 Bar
Proof pressure Pressione di scoppio	PC bowl / Tazza protetta: 15 Bar Metal bowl / Tazza in metallo: 20 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Lubricating oil capacity Capacità tazza olio	200 cc
Min. flow for oil drip Flusso minimo gocciolamento olio	25 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Weight / Peso	PC bowl / Tazza protetta: 1260 g Metal bowl / Tazza in metallo: 1380 g
Attachment / Accessori	C-type bracket (TU-BC5) Staffa a C (TU-BC5)

ENCODING / CODIFICA

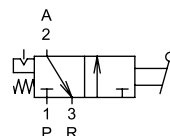
TU - L5 - □ - □

Model <i>Modello</i>	Port size: <i>Connessione:</i> 34 3/4" 10 1"	Bowl /Tazza: P Protection case Tazza protetta M Metal bowl Tazza di metallo
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DIMENSIONS / DIMENSIONI



TU - VM5

ON OFF VALVE
VALVOLA ON OFF

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1"
N° of port / N° di porti	3
N° of position / N° di connessioni	2
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	1 ~ 10 Bar
Proof pressure Pressione di scoppio	15 Bar
Ambient temperature Temperatura ambiente	- 5 ~ +60°C (no freezing - no congelamento)
Recommended lubricated oil Olio di lubrificazione consigliato	Turbine Oil ISOVG32
Weight / Peso	950 g

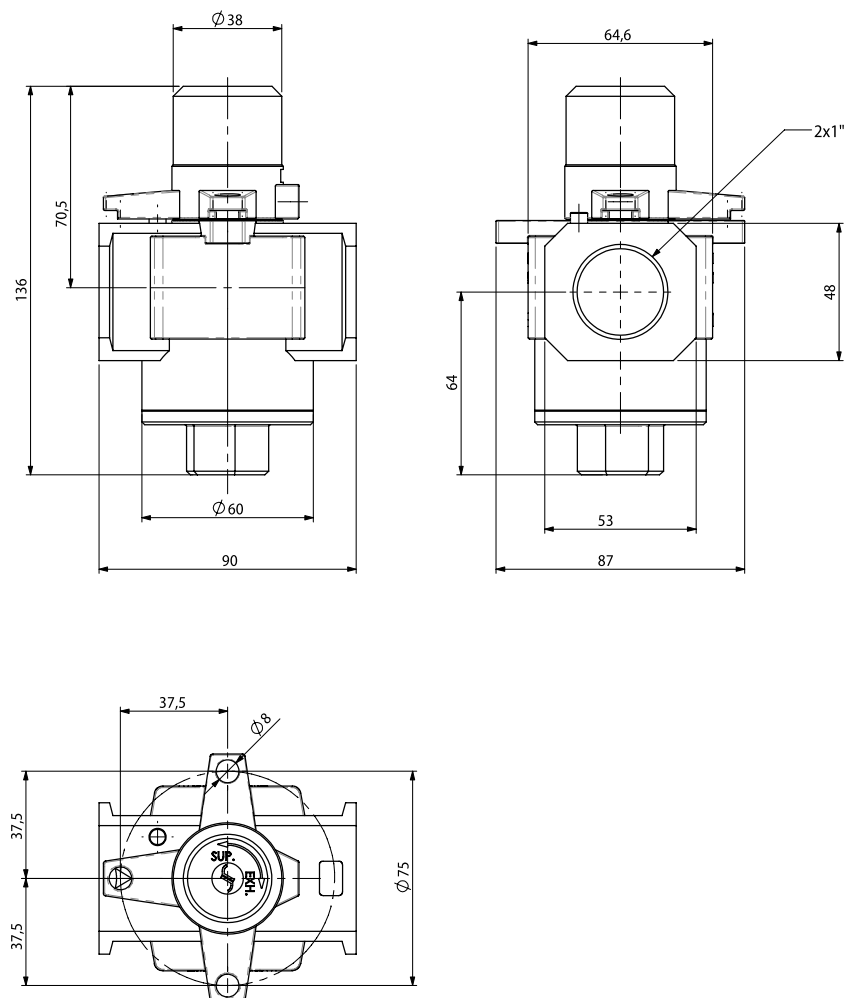
ENCODING / CODIFICA

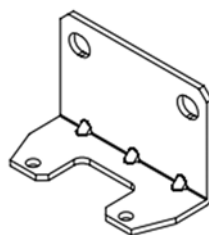
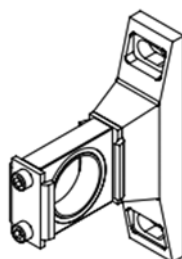
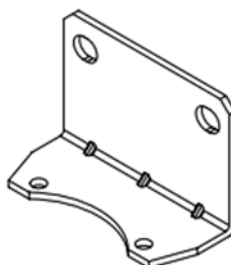
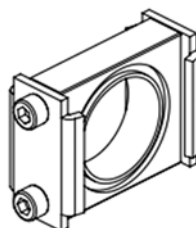
TU - VM5 -

Model
Modello

Port size:
Connessione:
14 G 1"

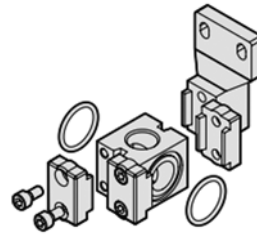
DIMENSIONS / DIMENSIONI



TU - BL5**L Bracket**
Staffa a L**TU - BT5****T Bracket and joiner**
Staffa a T e giunzione**TU - BC5****Bracket for F and L units**
Staffa per unità F e L**TU - BS5****Joiner unit**
Giunzione

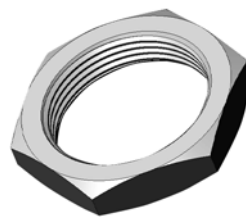
TU - T5 - 12

Module mounting bracket
Blocchetto di derivazione



TU - J5

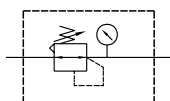
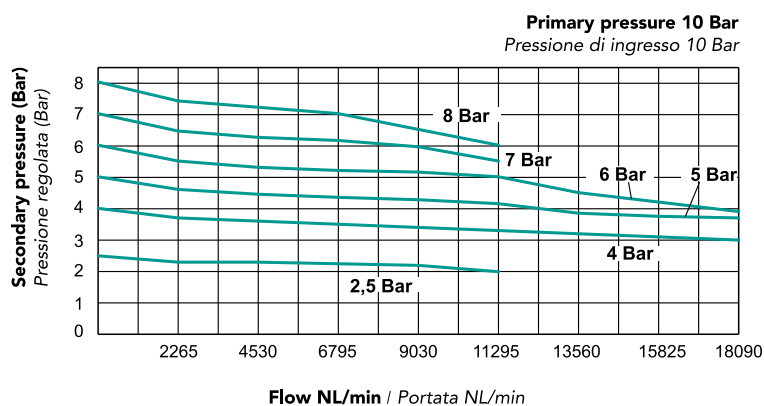
Panel mounting nut
Dado per montaggio a pannello



TU - R6

PRESSURE REGULATOR
REGOLATORE DI PRESSIONE

FLOW / PORTATA



*Pressure gauge to be ordered separately

*Il manometro è da ordinare a parte

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 1 1/2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	21 Bar
Regulated pressure range Range di regolazione di pressione	0,9 ~ 8,6 Bar
Ambient temperature Temperatura ambiente	0 ~ +80°C (no freezing - no congelamento)
Attachment / Accessori	Pressure gauge Manometro
Weight / Peso	1208 g

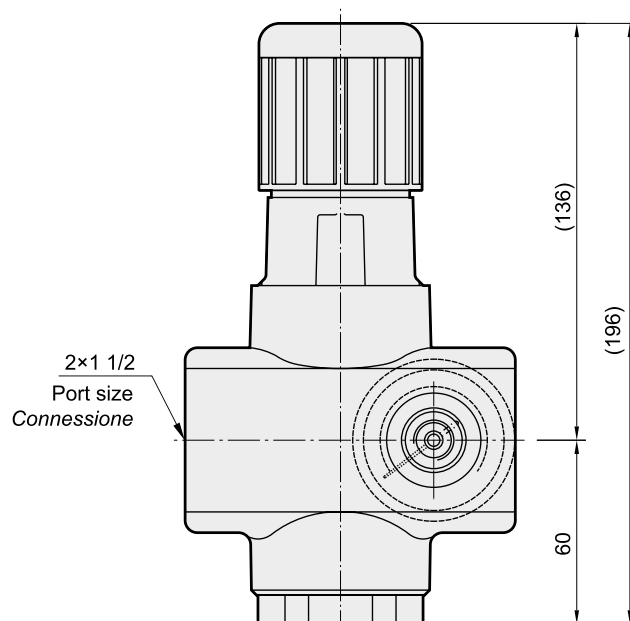
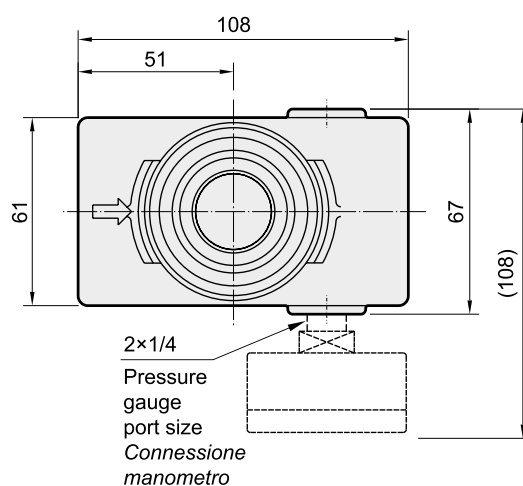
ENCODING / CODIFICA

TU - R6 - 

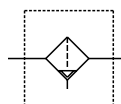
Model
Modello

Port size:
Connessione:
15 1 1/2"

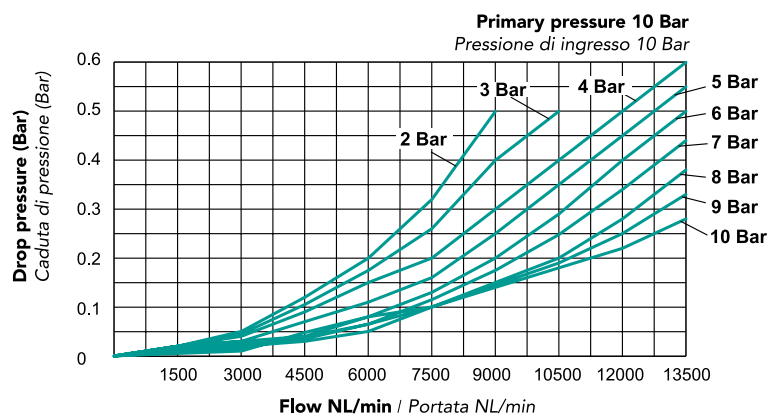
DIMENSIONS / DIMENSIONI



TU - F6

AIR FILTER
FILTRO D'ARIA

FLOW / PORTATA



TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

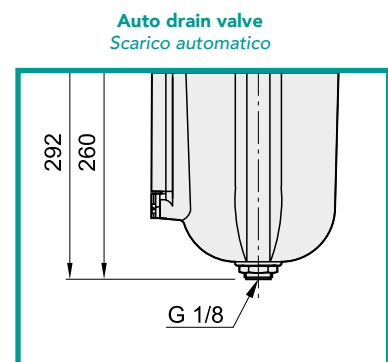
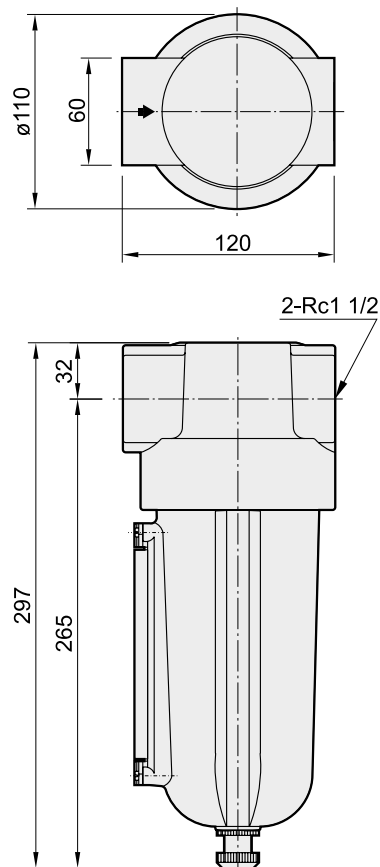
Port size / Connessione	G 1 1/2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 17,5 Bar
Ambient temperature Temperatura ambiente	0 ~ +80°C (no freezing - no congelamento)
Filter element Elemento filtrante	Standard 50 µm, sintered bronze / bronzo sinterizzato
Standard nominal flow rate Flusso nominale standard	20000 L/min
Drain-type Tipo di scarico	Auto drain Scarico automatico
Weight / Peso	2035 g

ENCODING / CODIFICA

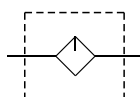
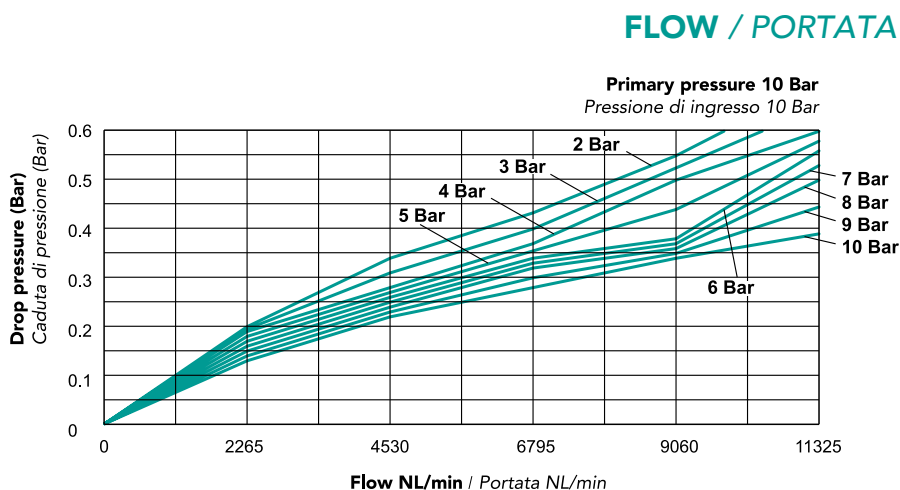
TU - F6 - 

Model Modello	Port size: Connessione: 15 1 1/2"
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DIMENSIONS / DIMENSIONI



TU - L6

LUBRICATOR
LUBRIFICATORE

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Taglia	G 1 1/2"
Fluid / Fluido	Air / Aria
Max. Operating pressure range Range massimo di pressione	17,5 Bar
Ambient temperature Temperatura ambiente	0 ~ +80°C (no freezing - no congelamento)
Lubricating oil capacity Capacità tazza olio	1000 cc
Min. flow for oil drip Flusso minimo gocciolamento olio	200 L/min
Standard nominal flow rate Flusso nominale standard	12000 L/min
Recommended lubricating oil Olio di lubrificazione consigliato	ISO-VG32
Weight / Peso	1766 g

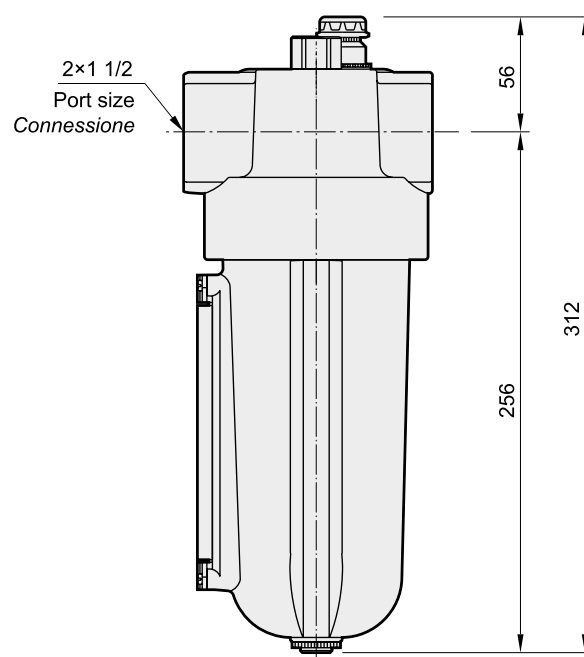
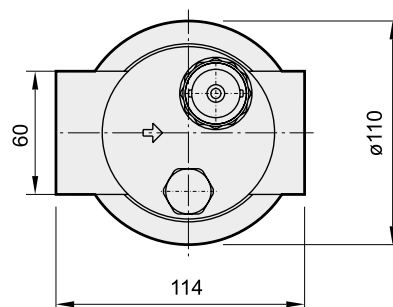
ENCODING / CODIFICA

TU - L6 - 

Model
Modello

Port size:
Connessione:
15 1/2"

DIMENSIONS / DIMENSIONI

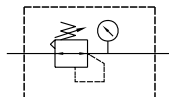
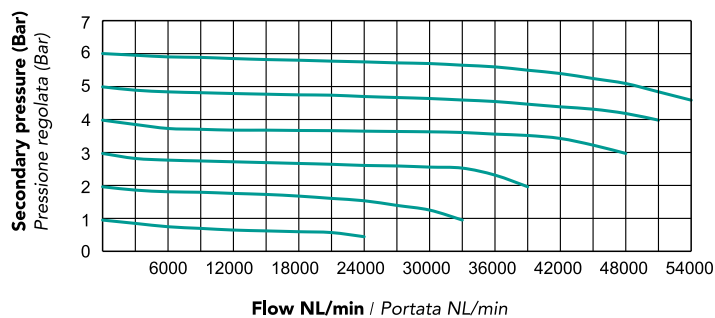


TU - R7

EXTERNAL PILOT PRESSURE REGULATOR
REGOLATORE DI PRESSIONE PILOTATO

FLOW / PORTATA

Primary pressure 10 Bar
Pressione di ingresso 10 Bar



*Pressure gauge to be ordered separately
*Il manometro è da ordinare a parte

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 2"
Fluid / Fluido	Air / Aria
Max. operating pressure Range massimo di pressione	31 Bar
Regulated pressure range Range di regolazione di pressione	Up to / fino a: 17,5 Bar
Ambient temperature Temperatura ambiente	0 ~ +80°C (no freezing - no congelamento)
Standard nominal flow rate Flusso nominale standard	59000 L/min
Attachment / Accessori	Pressure gauge Manometro
Weight / Peso	3055 g

ENCODING / CODIFICA

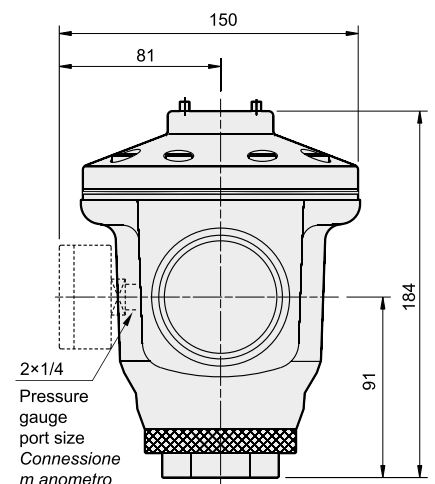
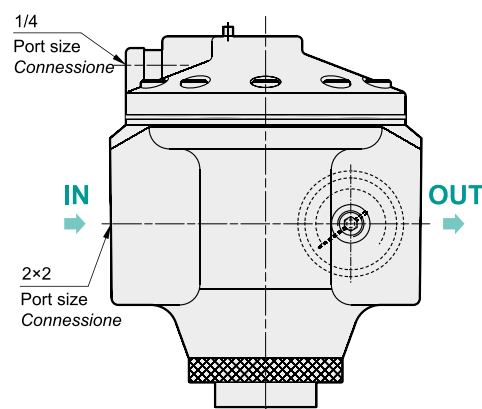
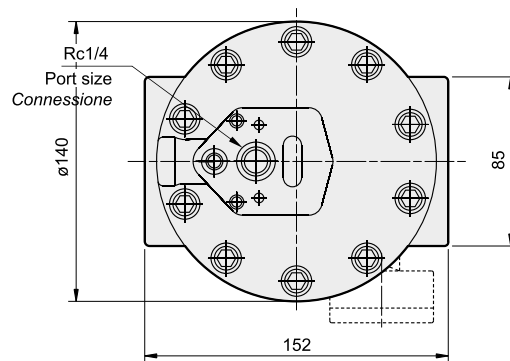
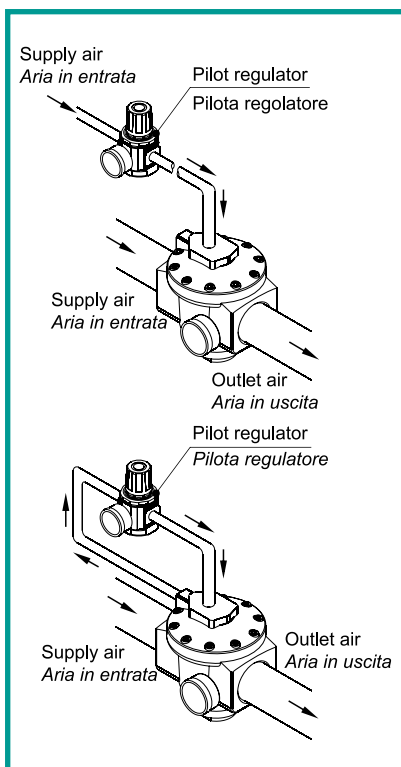
TU - R7 - 

Model
Modello

Port size:
Connessione:
20 2"

DIMENSIONS / DIMENSIONI

Pilot operation
Operazione pilota

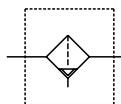
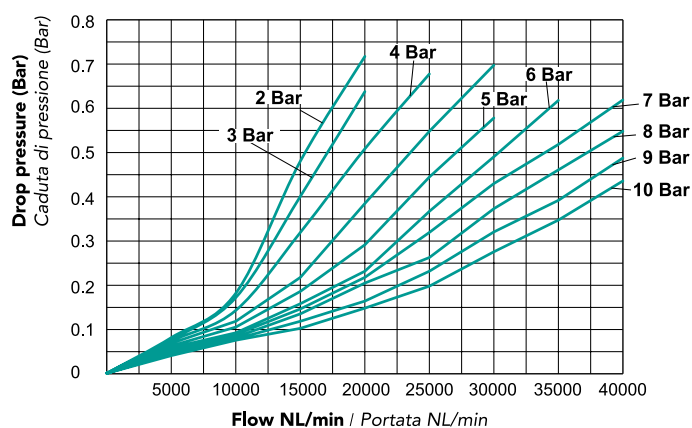


TU - F7

AIR FILTER
FILTRO D'ARIA

FLOW / PORTATA

Primary pressure 10 Bar
Pressione di ingresso 10 Bar



TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Port size / Connessione	G 2"
Fluid / Fluido	Air / Aria
Operating pressure range Range di pressione operativa	0,5 ~ 17,5 Bar
Ambient temperature Temperatura ambiente	0 ~ +80°C (no freezing - no congelamento)
Filter element Elemento filtrante	Standard 50 µm
Standard nominal flow rate Flusso nominale standard	63000 L/min
Drain-type Tipo di scarico	Auto drain Scarico automatico
Weight / Peso	6930 g

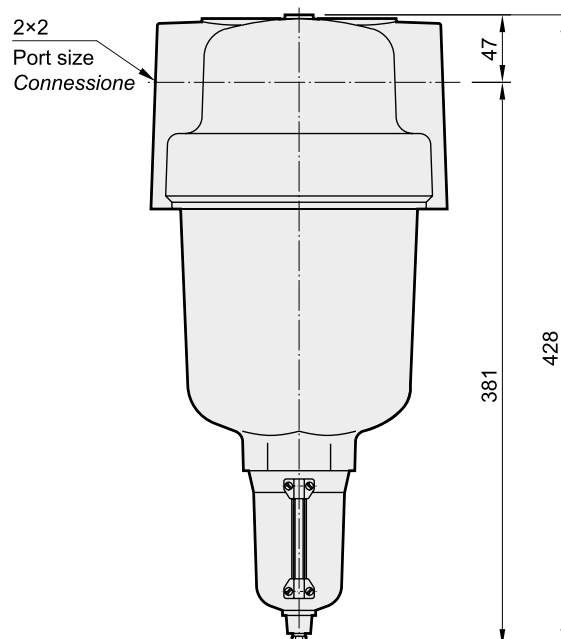
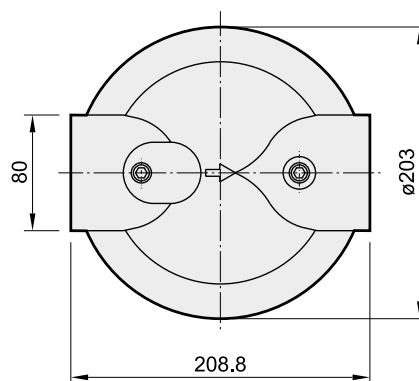
ENCODING / CODIFICA

TU - F7 - 

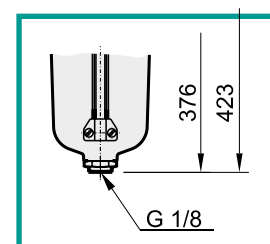
Model
Modello

Port size:
Connessione:
20 2"

DIMENSIONS / DIMENSIONI



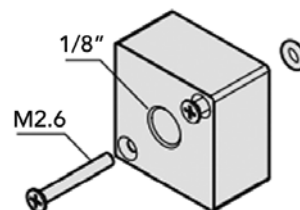
Auto drain valve
Scarico automatico



TU - AS

1/8" gauge adapter set for TU-3, TU-4, TU-5 R and FR units

Adattatore per manometro 1/8" per le unità R e FR TU-3, TU-4, TU-5.



GAUGE / MANOMETRO G1/8

Code / Codice	Connections / Conessioni	Series / Serie
K MM40 06 Ø40 0÷6 Bar	G 1/8"	TU-2, TU-3, TU-4, TU-4H, TU-5
K MM40 12 Ø40 0÷12 Bar	G 1/8"	TU-2, TU-3, TU-4, TU-4H, TU-5
K MM50 06 Ø50 0÷6 Bar	G 1/8"	TU-2, TU-3, TU-4, TU-4H, TU-5
K MM50 12 Ø50 0÷12 Bar	G 1/8"	TU-2, TU-3, TU-4, TU-4H, TU-5
K MM63 12 Ø63 0÷12 Bar	G 1/4"	TU-6, TU-7



PLUG / GRANO

Code / Codice	Connections / Conessioni	Series / Serie
K GC18	G 1/8"	TU-2, TU-3, TU-4, TU-4H, TU-5
K GC14	G 1/4"	TU-6, TU-7



EP41

Pressure switch for TU-3, TU-4, TU-5 R and FR units

Pressostato digitale per le unità R e FR TU-3, TU-4, TU-5



DPS

Pressure switch

Pressostato digitale



VSC - P4 - 020

4 poles cable (2000 mm) for pressure switch extension

Cavo a 4 fili (2000 mm) per prolunga pressostato digitale



EP41

HIGH PRECISION DIGITAL PRESSURE SWITCH

PRESSOSTATO DIGITALE AD ALTA PRECISIONE



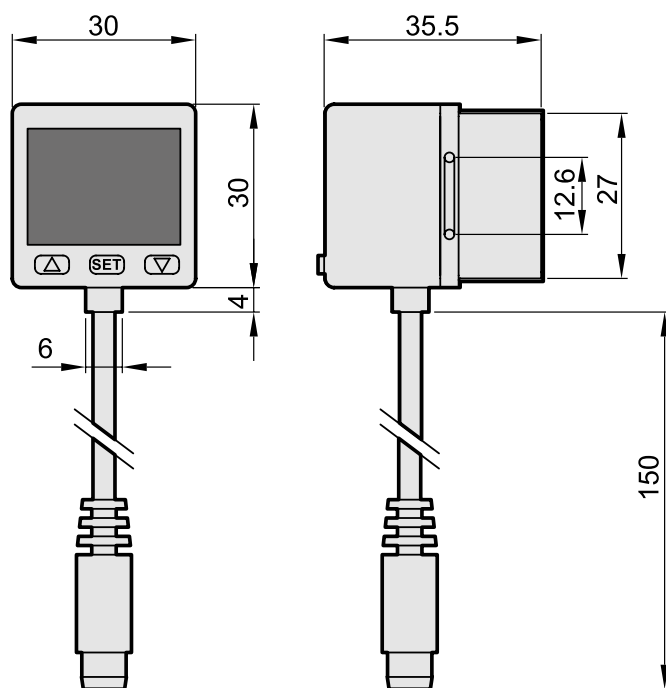
FEATURES / CARATTERISTICHE

- **2 PNP Output**
Uscita 2 PNP
- **-1 ~ 10 Bar range**
Range di pressione -1 ~ 10 Bar
- **Hysteresis adjustable**
Regolazione d'isteresi
- **High accuracy and resolution**
Alta precisione e risoluzione
- **Pressure unit selectable:**
kPa, MPa, kgf/cm², bar, psi, inHg, mmHg
Unità di pressione selezionabili:
kPa, MPa, kgf/cm², bar, psi, inHg, mmHg
- **2 meter cable available (VSC - P4 - 020)**
Cavo di 2 metri disponibile (VSC - P4 - 020)
- **Compatible with TU - 3, TU - 4, TU - 5 series**
Compatibile con le serie TU - 3, TU - 4, TU - 5

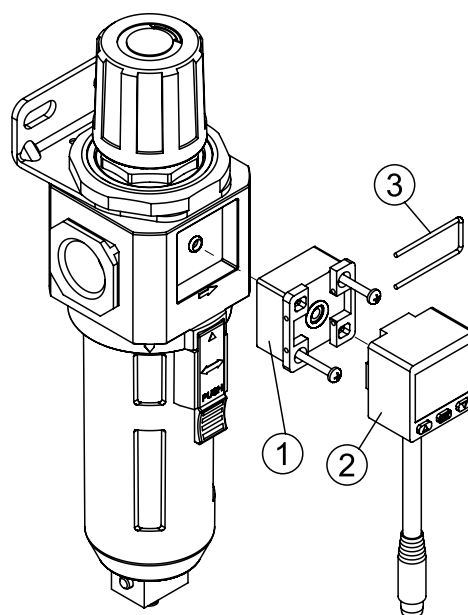
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Rated pressure range		0.0 ~ 10 Bar
Setting pressure range		-1 ~ 10 Bar
Withstand pressure		15 Bar
Fluid		Air, Non-corrosive gases, incombustible gases
Set pressure resolution	KPa / MPa	- / 0.001
	kgf/cm ² / Bar	0.01
	psi	0.1
	inHg / mmHg	-
Power supply voltage		12 to 24V DC $\pm 10\%$, Ripple (P-P) 10% or less
Current consumption		$\leq 40\text{mA}$ (With no load)
Switch output	Output type	2 PNP open collector
	Max. load current	125mA
	Max. supply voltage	24V DC (at PNP output)
	Residual voltage	$\leq 1.5\text{V}$
Response time		Chattering-proof function: 50ms, 250ms, 500ms, 1000ms, 3000ms selections
Output short circuit protection		Yes
Display	LCD display	Two color (Red/Green) main & unit display, Orange sub-display (Sampling rate: 5 times/1sec.
	Switch On indicator	Orange (1 & 2 indicator) OUT1 OUT2
	Updates time	Adjustable
	Indicator accuracy	$\leq \pm 2\%$ F.S. ± 1 digit (ambient temperature: $25 \pm 3^\circ\text{C}$)
Repeatability (switch output)		$\leq \pm 0.2\%$ F.S. ± 1 digit
Environment	Enclosure	IP40
	Ambient temp. range	Operation: $0 \sim 50^\circ\text{C}$, storage: $-10 \sim 60^\circ\text{C}$ (No condensation or freezing)
	Ambient humidity range	$35 \sim 85\%$ RH (No condensation)
	Withstand voltage	1000V AC in 1-min. (between case and lead wire)
	Insulation resistance	50M Ω min. (at 500V DC, between case and lead wire)
	Vibration	Total amplitude 1.5mm or 10G, 10Hz-150Hz-10Hz scan for 1 minute, wo hours each direction of X, Y and Z
Shock		100m/s ² (10G), 3 times each in direction of X, Y, and Z
Temperature characteristic		$\leq \pm 2\%$ F.S. of detected pressure (25°C) at temp. Range of $0 \sim 50^\circ\text{C}$
Lead wire		Oil resistance cable (0.15mm ²)
Weight		Approx. 65g (with 2 meter lead wire), Approx. 30g (with male connector)

DIMENSIONS / DIMENSIONI

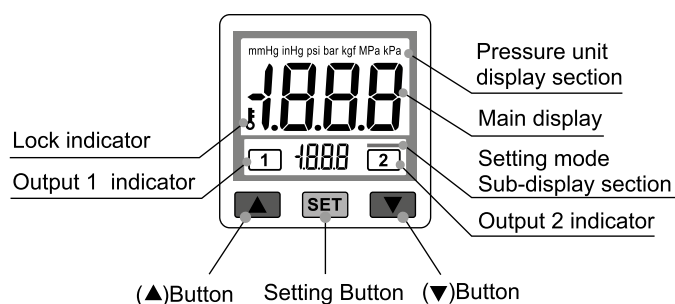


MOUNTING PROCEDURES PROCEDURE DI MONTAGGIO

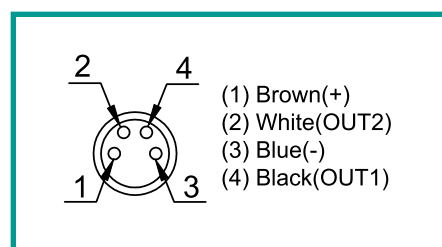


- 1. Fix the holder**
Fissare il supporto
- 2. Assembly the digital pressure switch**
Assemblare il pressostato digitale
- 3. Button the n-ring**
Introdurre la guarnizione a "n"

PANEL INSTRUCTIONS ISTRUZIONI DEL PANNELLO



QD PINOUT SCHEMA



TU - DPS

GENERAL FEATURES

CARATTERI GENERALI



Quick intallation

Intallazione veloce

- **Save installation time**
Installazione veloce
- **Easy removal**
Facile rimozione

Copy setting

Impostazione di copia

- **Reduce setting time**
Riduce il tempo di settaggio
- **Avoid setting errors**
Evita errori di settaggio

Easy unit identification

Identificazione facile dell'unità

- **Conversion unit is on display and easy to read**
Unità di conversione facile da leggere nel display

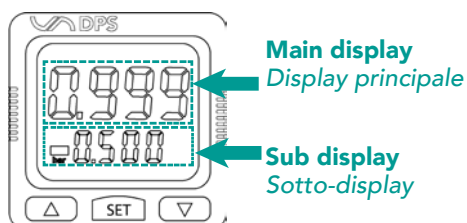
Setting value easy indication

Indicatore di settaggio facile

- **User can easily observe the setting value from sub-display**
L'utente può facilmente osservare il settaggio dal sotto-display

Main / Sub-display

Display principale / sotto-display

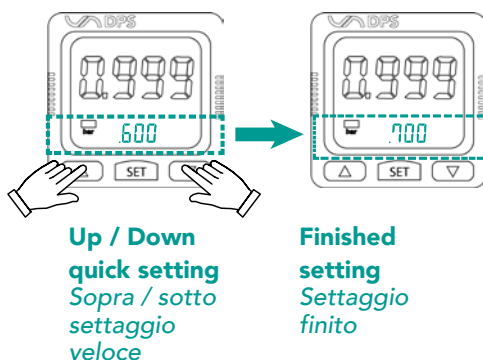


Main display

Display principale

Sub display

Sotto-display



**Up / Down
quick setting**
*Sopra / sotto
settaggio
veloce*

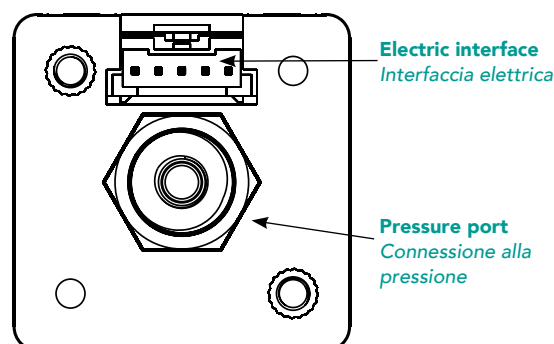
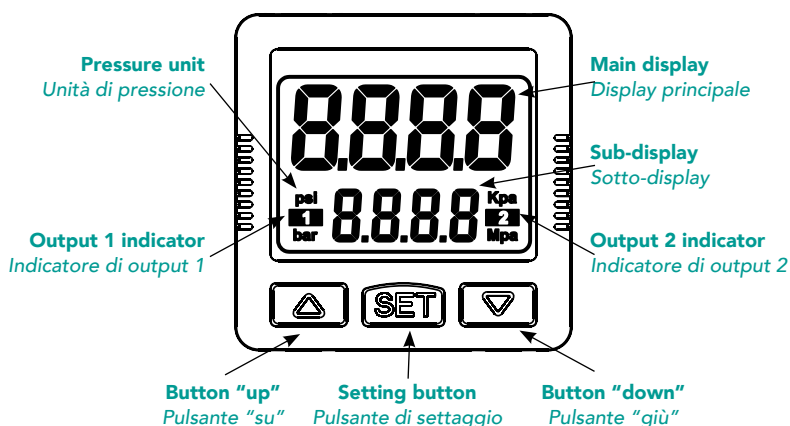
**Finished
setting**
*Settaggio
finito*

2-Color main display

Display a 2 colori

- **User programmable color mode, for different setting conditions**
Colore settabile in base alle diverse condizioni di settaggio

PANEL / INTERFACCIA

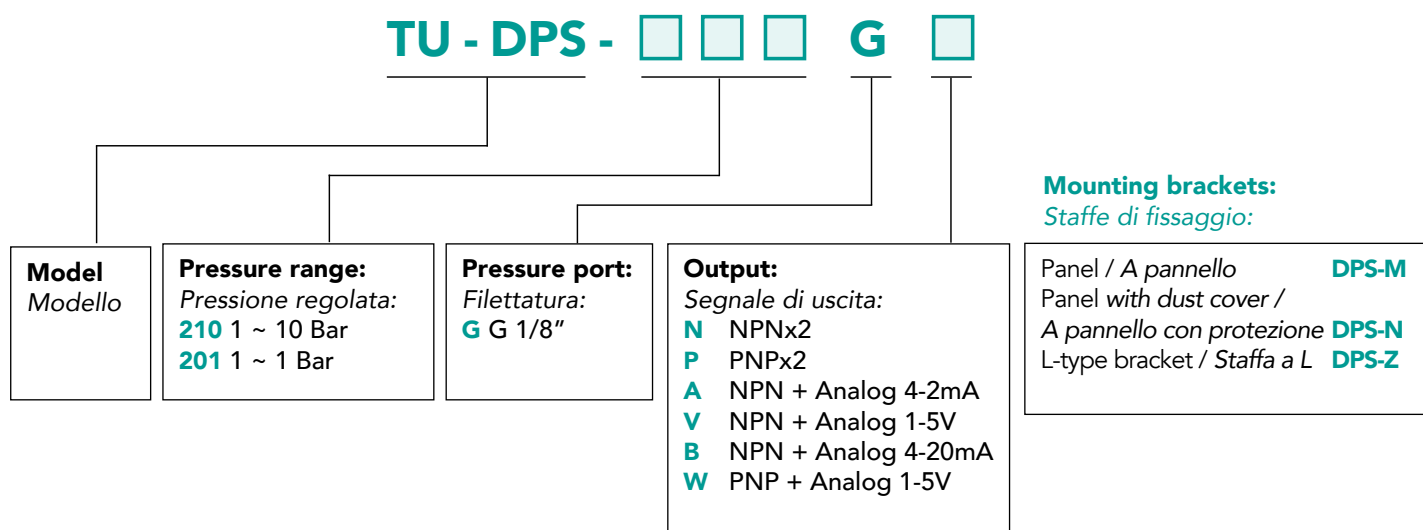


* All the information about settings are available in the DPS Operation Manual
Tutte le informazioni sui settaggi sono disponibili nel Manuale Operativo DPS

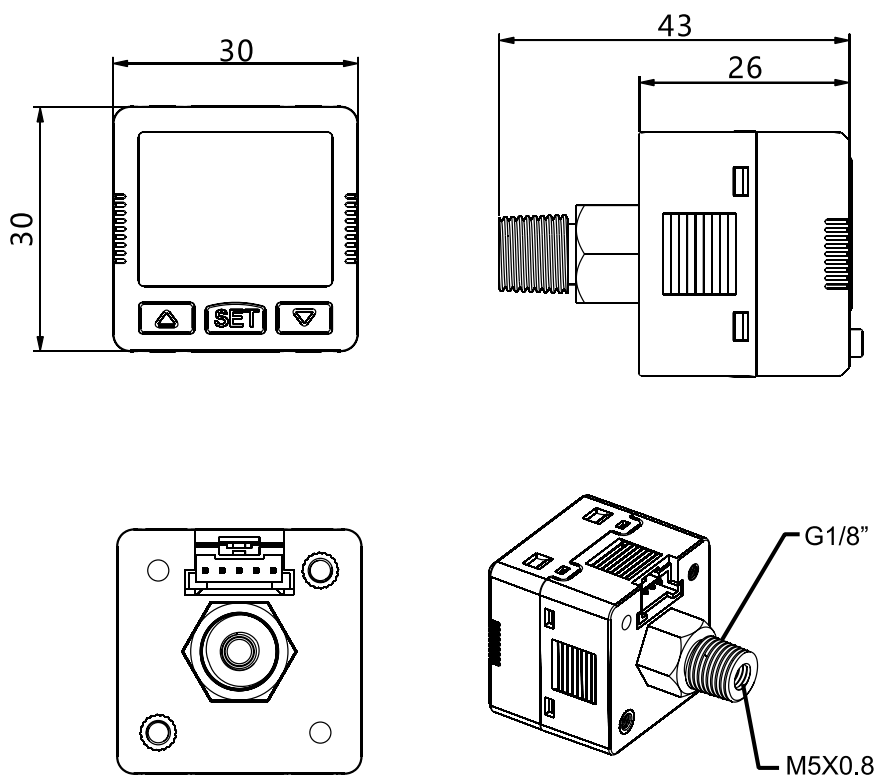
TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Model / Modello	DPS - 210	DPS - 201
Pressure range / Pressione regolata	1 ~ 10 Bar	-1 ~ 1 Bar
Withstand pressure / Pressione di scoppio	15 Bar	5 bar
Fluid / Tipo di fluido	Non-flammable, non corrosive gas / non infiammabile, gas non corrosivo	
Measure accuracy / Precisione di misurazione	$\leq \pm 2\%$ F.S. (ambient temperature 25° / temperatura ambiente 25°)	
Temperature error / Temperatura di errore	$\leq \pm 3\%$ F.S. (temperature range 0~50° / temperatura ambiente 0~50°)	
Measure pattern / Tipologia di misurazione	Hysteresis mode and compare mode / Modalità isteresi e modalità confronto	
Port threads / Filettature	External G1/8" option, internal thread M5 / filettatura esterna da G1/8", filettatura interna M5	
LCD display / Display LCD	Double LCD display / doppio display LCD	
Status display / Visualizzazione dello stato	4-digital measurement value, unit display, output status display / valore di misurazione a 4 cifre, display dell'unità, display dello stato dell'output	
Display model / Tipo di display	Adjustable backlight, 4 groups of display models / Retroilluminazione regolabile, 4 gruppi di modelli di display	
Voltage range / Range di voltaggio	12 ~ 24 VDC $\leq \pm 10\%$	
Max power consumption / Consumo energetico massimo	40 mA	
Transistor output / Uscita transistor	NPN open-collector output Max output current: 80mA Voltage drop: $\leq 1V$	PNP open-collector output Max output current: 80mA Voltage drop: $\leq 1V$
	Uscita NPN a collettore aperto Max corrente di uscita: 80 mA Caduta di tensione: $\leq 1V$	Uscita PNP a collettore aperto Max corrente di uscita: 80 mA Caduta di tensione: $\leq 1V$
Analog output / Uscita analogica	Voltage output Signal amplitude: 1~ 5V Load resistance: $\geq 1K\Omega$	Current output Signal amplitude: 4~ 20 mA Load resistance: $\leq 400\Omega$
	Tensione d'uscita Ampiezza del segnale: 1 ~ 5 V Resistenza di carico: $\geq 1K\Omega$	Corrente d'uscita Ampiezza del segnale: 4 ~ 20 mA Resistenza di carico: $\leq 400\Omega$
Response time / Tempo di risposta	Adjustable: 2.5ms, 20ms, 100ms, 500ms, 1000ms, 2000ms / Regolabile: 2.5ms, 20ms, 100ms, 500ms, 1000ms, 2000ms	
Short-circuit protection / Protezione anti-cortocircuito	Yes / Sì	
IP level / Livello IP	IP40	
Ambient temperature / Temperatura ambiente	Operating: 0~50°, storage: -20~60° / Operativa: 0~50°, di stoccaggio: -20~60°	
Ambient humidity / Umidità ambiente	35~80RH	
Insulation voltage / Tensione di isolamento	1000VAC 1min	
Insulation resistance / Resistenza di isolamento	$\geq 50 M\Omega$ (500VDC)	

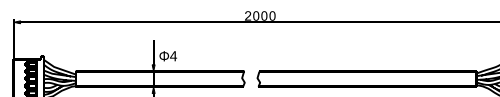
ENCODING / CODIFICA



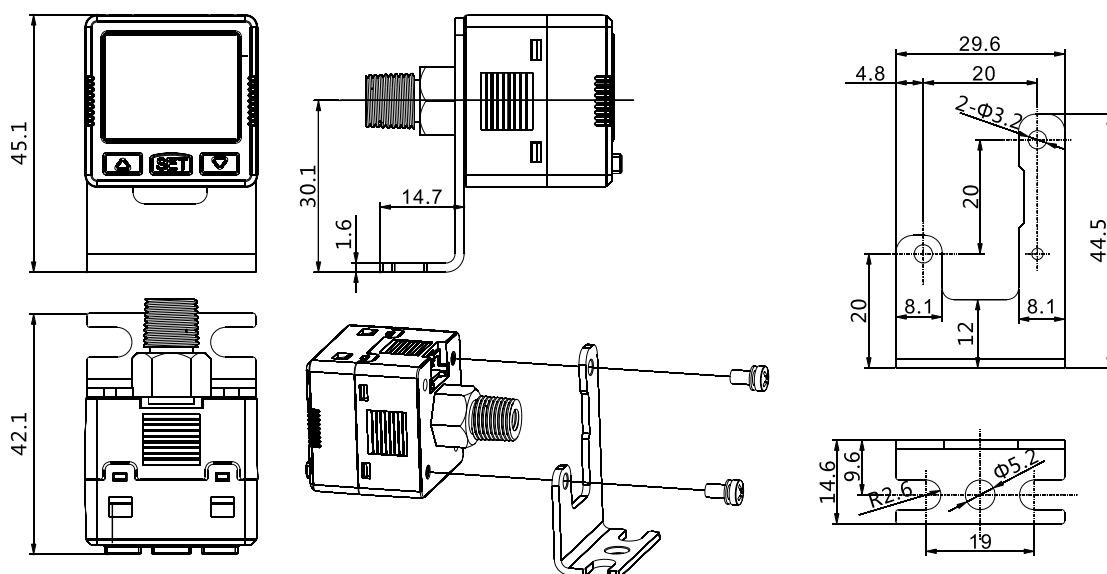
DIMENSIONS / DIMENSIONI



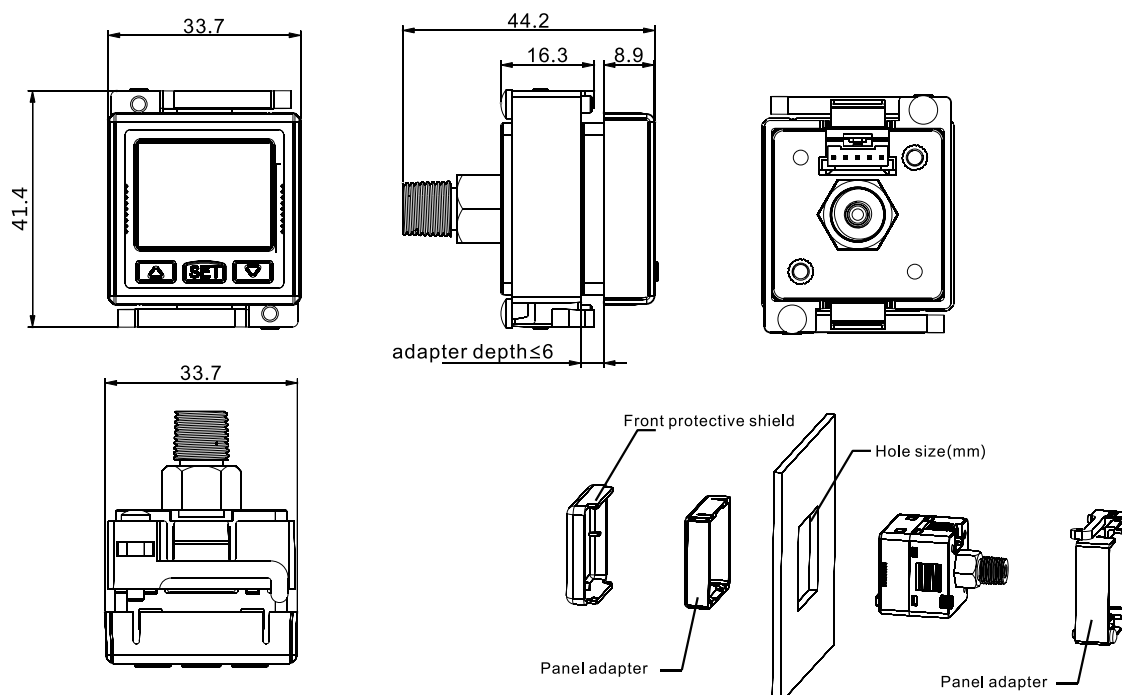
WIRE DIMENSIONS / DIMENSIONI DEL CAVO



MOUNTING L-BRACKET / MONTAGGIO DELLA STAFFA A L



PANEL MOUNTING / MONTAGGIO A PANNELLO





DESCRIPTION / DESCRIZIONE

Light and compact precision pressure regulator with aluminium painted body. Complete with 2-position bracket, gauge on request. The 0,05÷8 Bar regulation range allows great precision, due to the **multi-diaphragm construction concept**, the air escape and the high exhaust capacity for over pressure. These factors guarantee a rapid pressure regulation, while limiting fluctuation. Vesta HPR Series is perfect for **contact pressure control**, for regulating balancing and precise tension, and to control sealing and pressure-loss systems.

The high precision pressure regulators are **available in three sizes**, for different air flows and ports (1/8", 1/4", 1/2").

Regolatori di precisione leggeri e compatti con corpo in alluminio verniciato completi di staffa di fissaggio a due posizioni, e manometro a richiesta. Il range di regolazione 0,05÷8 Bar offre grande precisione, grazie al **concetto costruttivo multi-membrana**, alla fuga d'aria e alla elevata capacità di scarico delle sovrappressioni. Tutto questo rende possibile una rapida regolazione della pressione limitandone la fluttuazione. I regolatori Vesta HPR sono particolarmente idonei per il **controllo della pressione di contatto**, per la regolazione di sistemi di bilanciamento e tensionamento, per controllo di sistemi di tenuta o in perdita. **Disponibile in tre taglie**, a cui corrispondono diverse dimensioni, diverse portate e diverse connessioni (1/8", 1/4", 1/2").

ENCODING / CODIFICA

HPR -

Model:

Modello:

18 G1/8" port

14 G1/4" port

12 G1/2" port

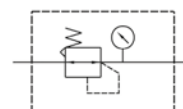
Pressure range:

Range di pressione:

A (0,05÷2 Bar)

B (0,05÷4 Bar)

C (0,05÷8 Bar)



Brackets / Staffe

L bracket for HPR-18

HPR-B18

Staffa a L per HPR-18

L bracket for HPR-14

HPR-B14

Staffa a L per HPR-14

L bracket for HPR-12

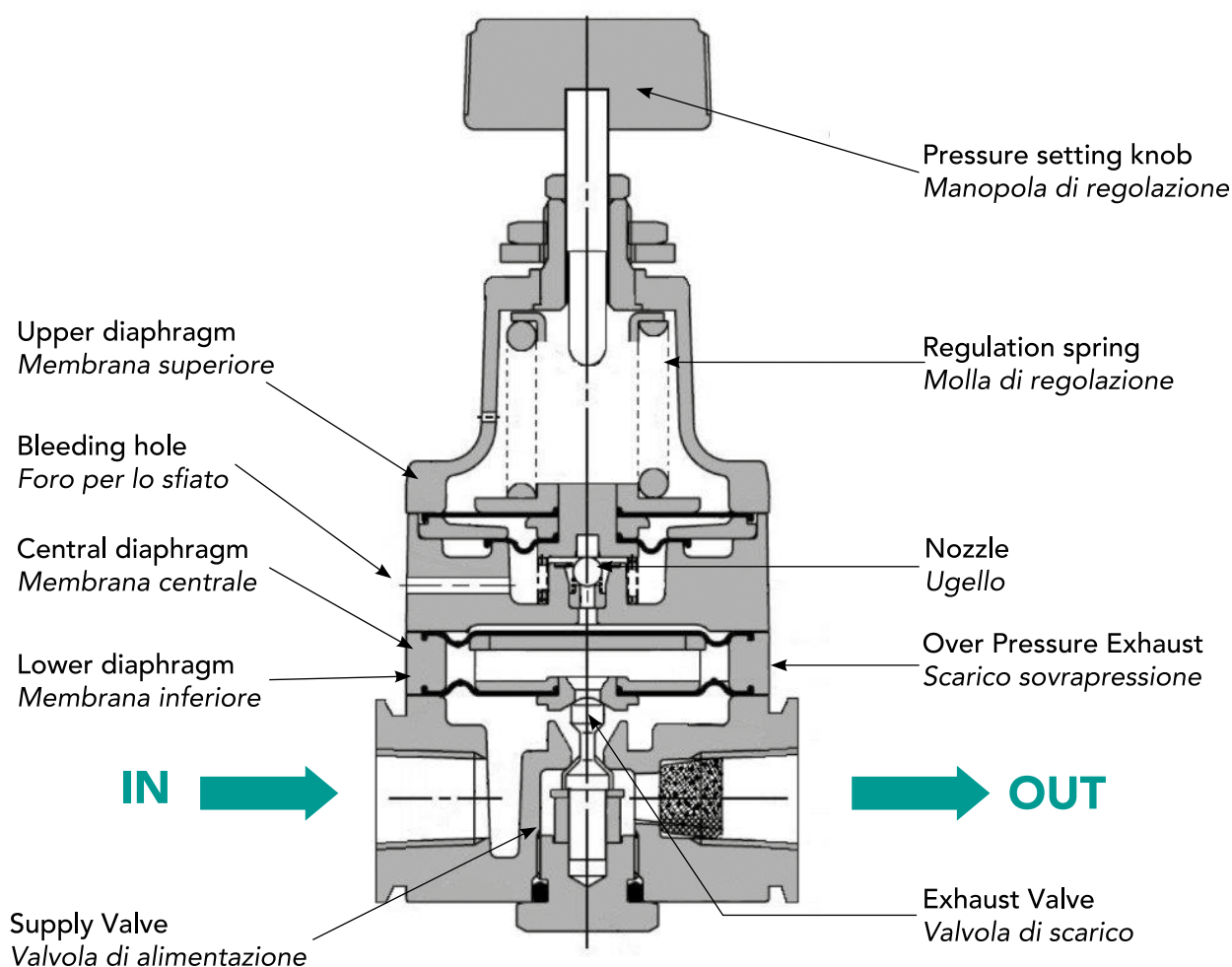
HPR-B12

Staffa a L per HPR-12

FUNCTIONING / FUNZIONAMENTO

By manually turning the pressure setting knob the spring is compressed and acts on the nozzle, and the communication between the central and lower diaphragm open the supply valve allowing flow from IN to OUT (SUP, OUT indicated on the valve body). The output pressure acting on the central and upper diaphragm keeps the precision pressure control, by closing the supply valve. Over pressure (or back pressure) is managed by the diaphragms, with the control function of closing the supply valve and opening the high-flow exhaust valve, guaranteeing a low hysteresis time. The constant bleeding allows high precision control for output pressure.

La regolazione avviene girando la manopola, comprimendo la molla che agisce sull'ugello; la comunicazione tra la membrana centrale e la membrana inferiore permettono l'apertura della valvola di alimentazione, aprendo il flusso in pressione da IN a OUT (indicati con su SUP e OUT nel corpo del regolatore). La pressione in uscita agisce sulle membrane centrale e superiore per il controllo della regolazione, chiudendo la valvola di alimentazione. La sovrappressione (o contropressione) è gestita dal sistema di membrane, chiudendo la valvola di alimentazione ed aprendo la valvola di scarico ad alta portata, garantendo un basso tempo di isteresi. Lo sfiato costante garantisce alta precisione nel controllo della pressione in uscita.



TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Pressure range

Range di pressione

A - 0.05 / 2 Bar

B - 0.05 / 4 Bar

C - 0.05 / 8 Bar

Maximum inlet pressure

Pressione massima di ingresso

10 Bar

Minimum inlet pressure

Pressione minima di ingresso

Set Pressure / Pressione regolata
+1 Bar**Air consumption (NL/min) 10 Bar**

Consumo d'aria (NL/min) 10 Bar

HPR18 - Max 3.5

Sensitivity / Sensibilità

0,2% F.S.

Accuracy / Ripetibilità

+/- 0.5% F.S.

Gauge port size

Connessione manometro

G1/8"

Weight / Peso

HPR18 - 150gr

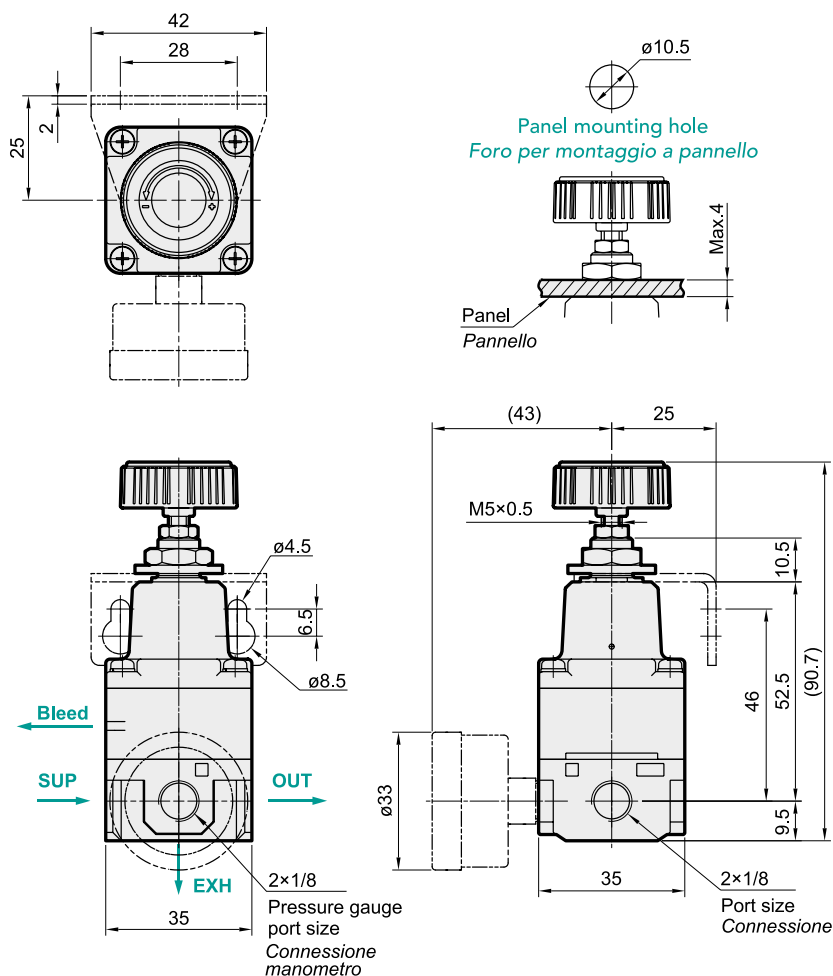
Ambient and fluid temperature

Temperatura ambiente e fluido

-5/+60°

Note: for optimal use, filtered air (5μ) not lubricated / Nota: per utilizzo ottimale, aria filtrata (5μ) non lubrificata

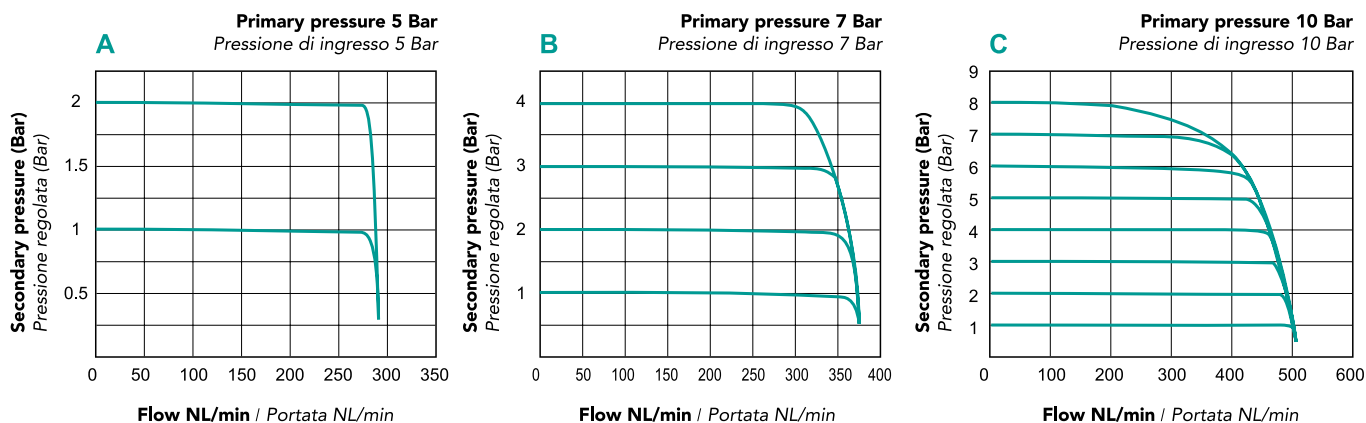
DIMENSIONS HPR18 / DIMENSIONI HPR18



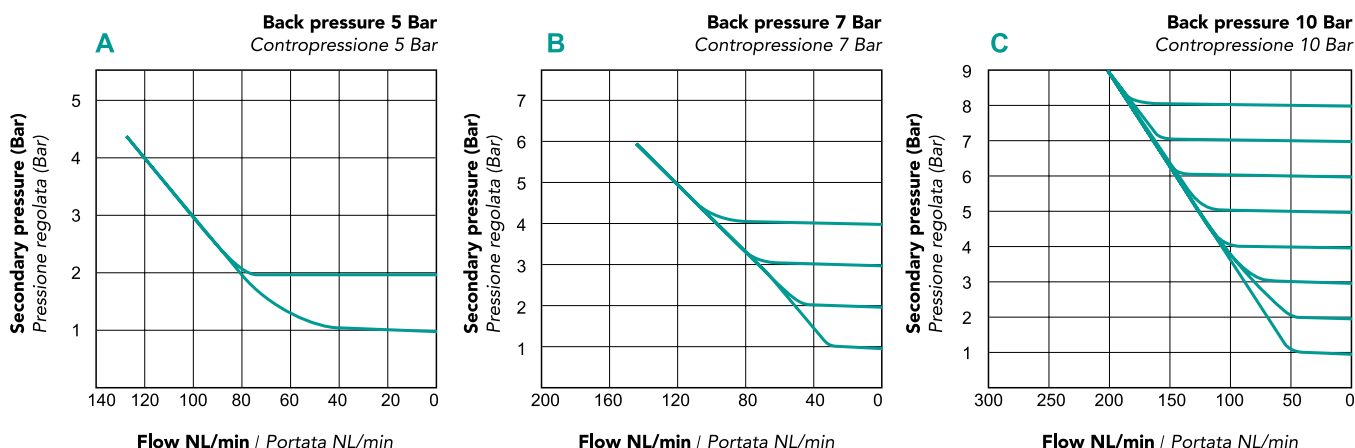
FLOW FEATURE / DIAGRAMMI DI REGOLAZIONE

HPR18

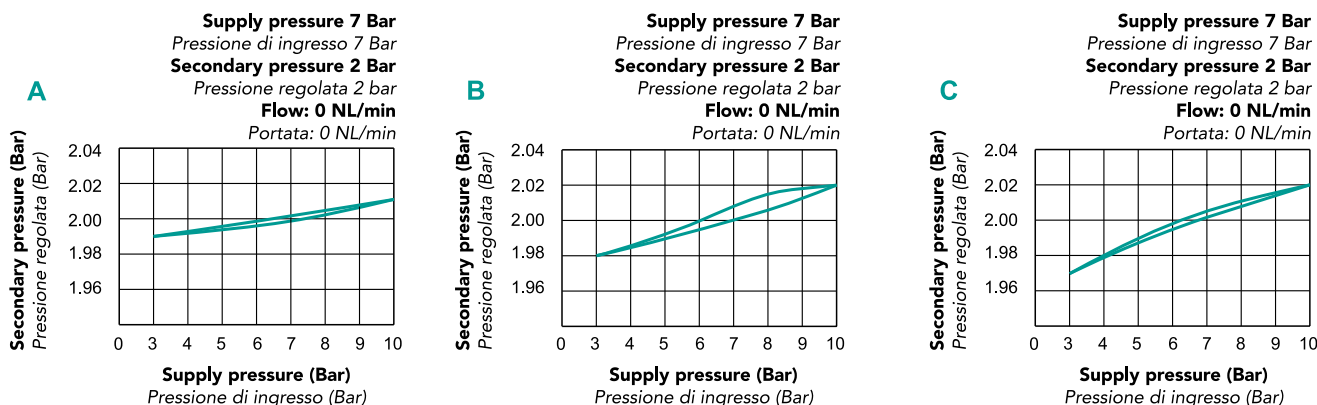
FLOW RATE HPR18 / PORTATA HPR18



RELIEF CHARACTERISTICS HPR18 / SCARICO SOVRAPRESSIONE HPR18



PRESSURE CHARACTERISTICS HPR18 / PRESSIONE HPR18

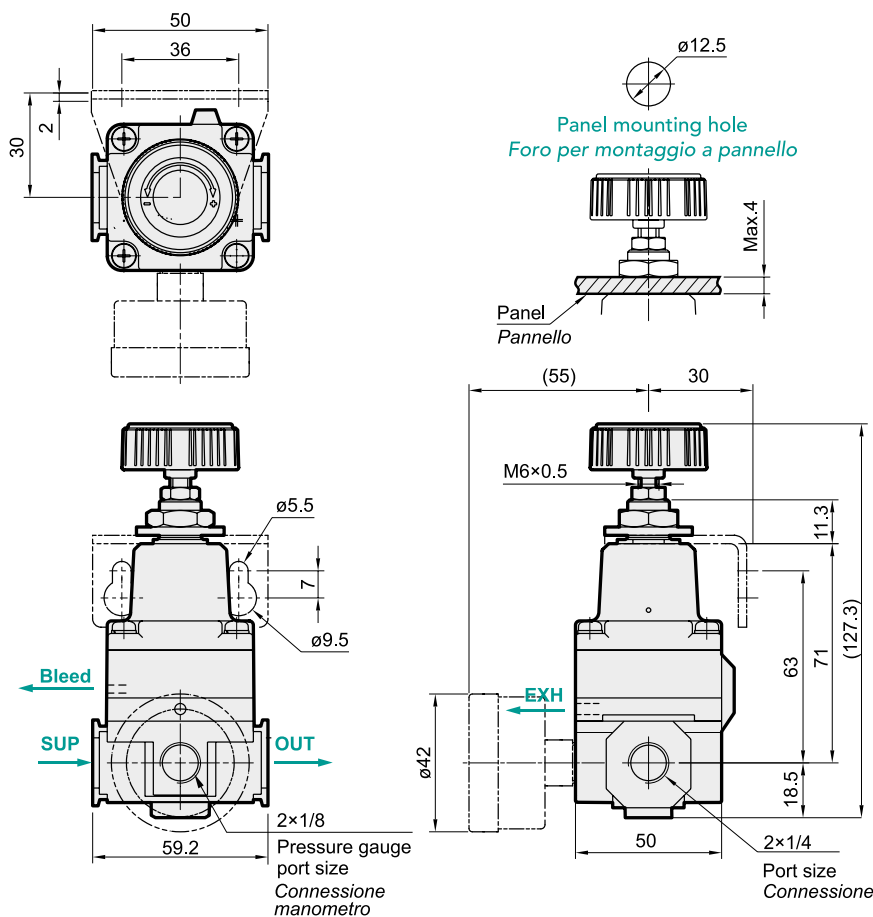


TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Pressure range <i>Range di pressione</i>	A - 0.05 / 2 Bar B - 0.05 / 4 Bar C - 0.05 / 8 Bar
Maximum inlet pressure <i>Pressione massima di ingresso</i>	10 Bar
Minimum inlet pressure <i>Pressione minima di ingresso</i>	Set Pressure / <i>Pressione regolata</i> +1 Bar
Air consumption (NL/min) 10 Bar <i>Consumo d'aria (NL/min) 10 Bar</i>	HPR14 - Max 3.1
Sensitivity / <i>Sensibilità</i>	0,2% F.S.
Accuracy / <i>Ripetibilità</i>	+/- 0.5% F.S.
Gauge port size <i>Connessione manometro</i>	G1/8"
Weight / <i>Peso</i>	HPR14 - 320gr
Ambient and fluid temperature <i>Temperatura ambiente e fluido</i>	-5/+60°

Note: for optimal use, filtered air (5μ) not lubricated / *Nota: per utilizzo ottimale, aria filtrata (5μ) non lubrificata*

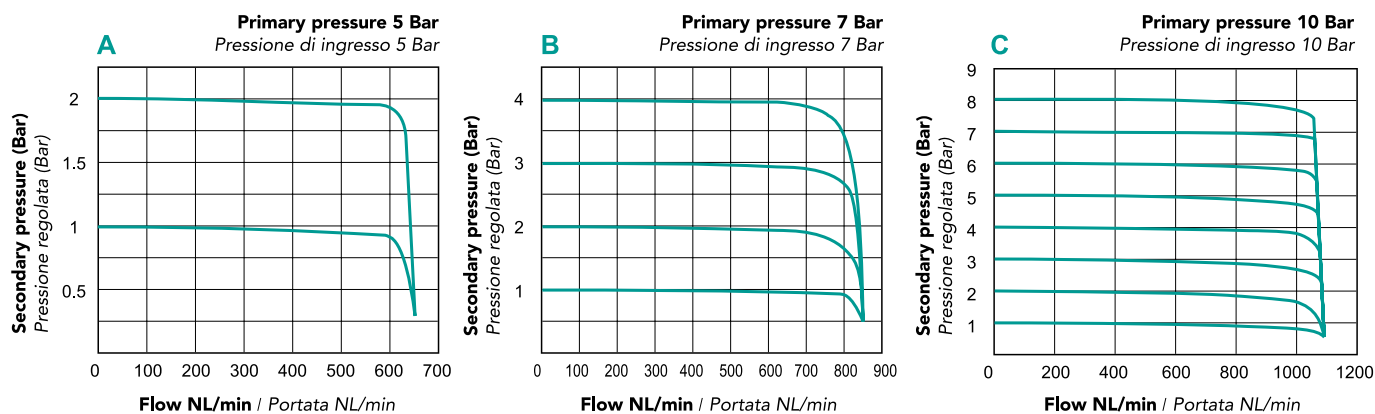
DIMENSIONS HPR14 / DIMENSIONI HPR14



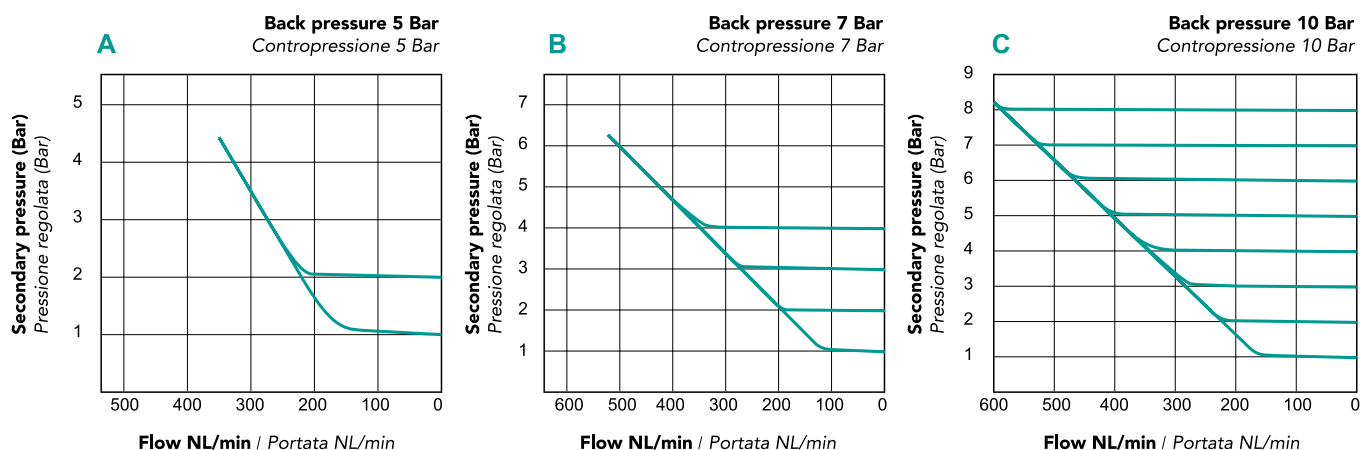
FLOW FEATURE / DIAGRAMMI DI REGOLAZIONE

HPR14

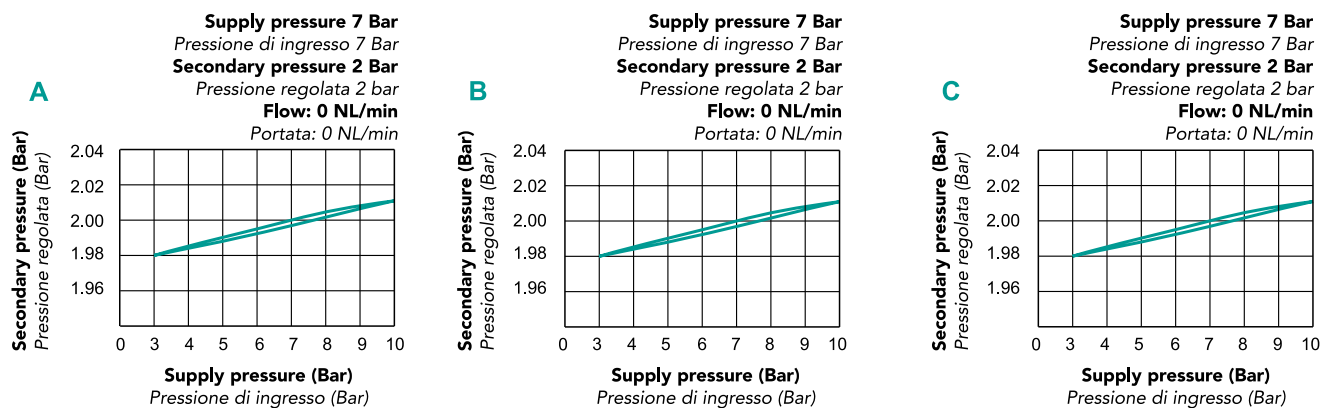
FLOW RATE HPR14 / PORTATA HPR14



RELIEF CHARACTERISTICS HPR14 / SCARICO SOVRAPRESSIONE HPR14



PRESSURE CHARACTERISTICS HPR14 / PRESSIONE HPR14



TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Pressure range

Range di pressione

A - 0.05 / 2 Bar

B - 0.05 / 4 Bar

C - 0.05 / 8 Bar

Maximum inlet pressure

Pressione massima di ingresso

10 Bar

Minimum inlet pressure

Pressione minima di ingresso

Set Pressure / Pressione regolata
+1 Bar**Air consumption (NL/min) 10 Bar**

Consumo d'aria (NL/min) 10 Bar

HPR12 - Max 9.5

Sensitivity / Sensibilità

0,2% F.S.

Accuracy / Ripetibilità

+/- 0.5% F.S.

Gauge port size

Connessione monometro

G1/8"

Weight / Peso

HPR12 - 685gr

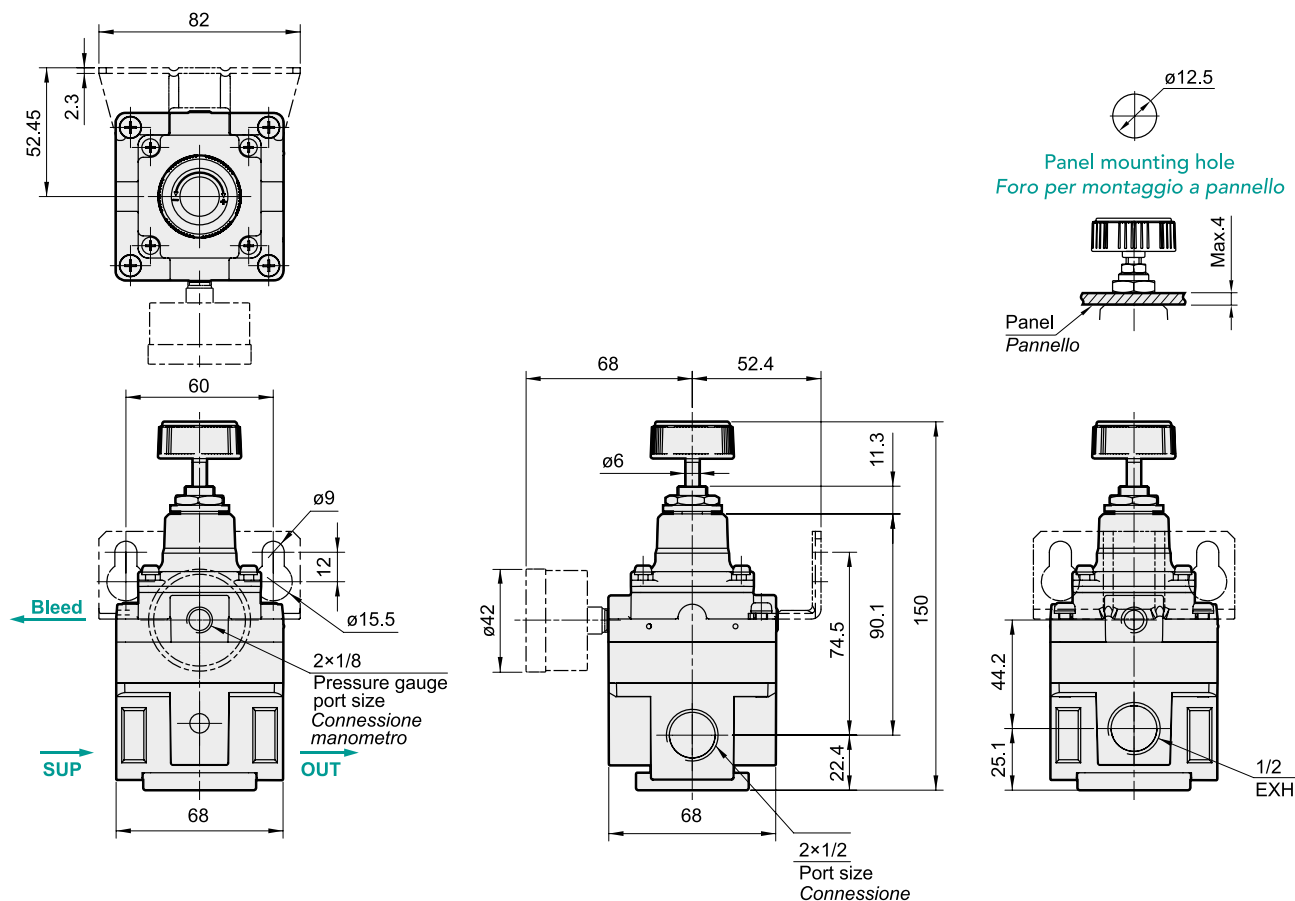
Ambient and fluid temperature

Temperatura ambiente e fluido

-5/+60°

Note: for optimal use, filtered air (5μ) not lubricated / Nota: per utilizzo ottimale, aria filtrata (5μ) non lubrificata

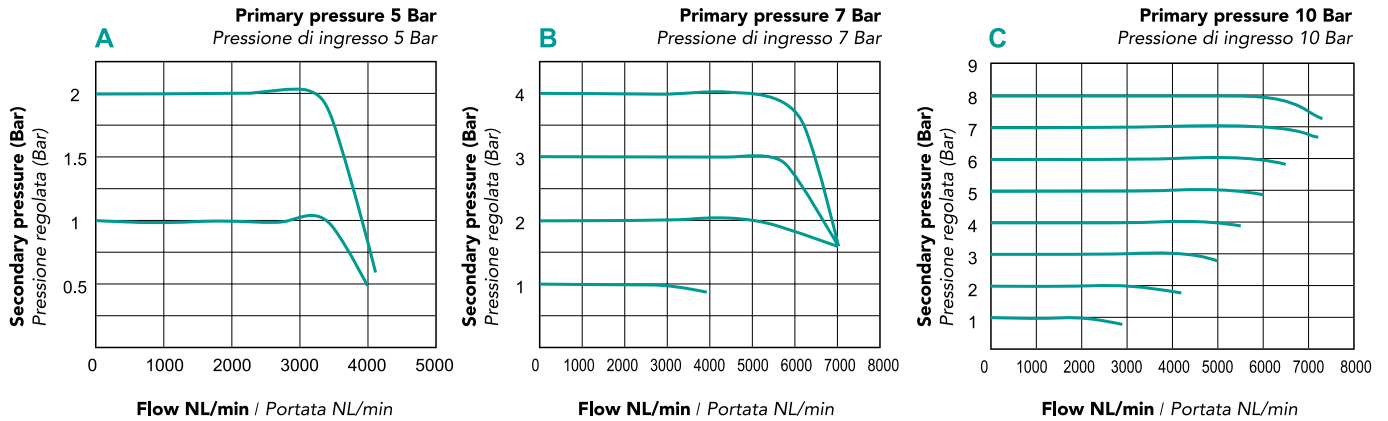
DIMENSIONS HPR12 / DIMENSIONI HPR12



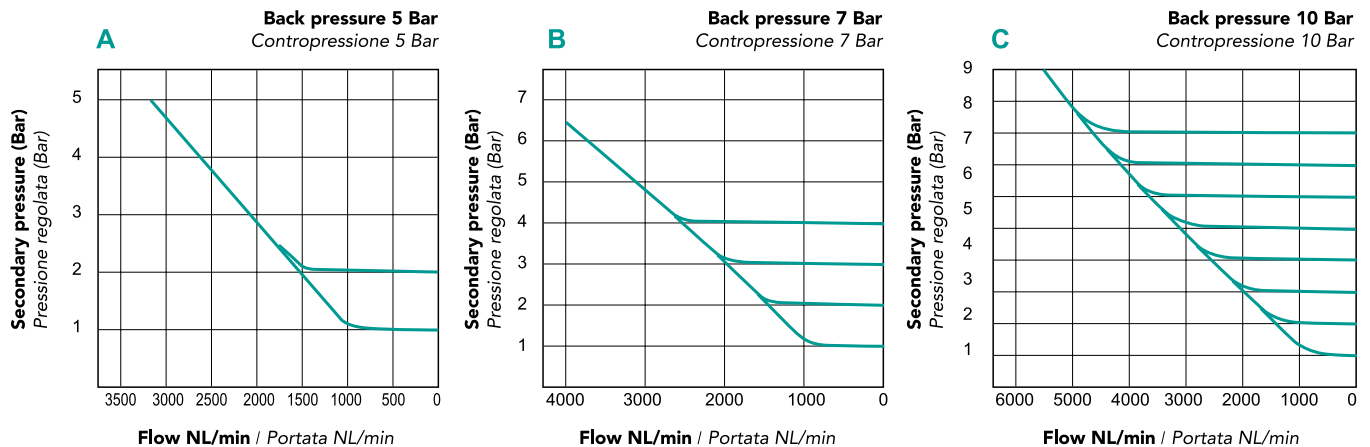
FLOW FEATURE / DIAGRAMMI DI REGOLAZIONE

HPR12

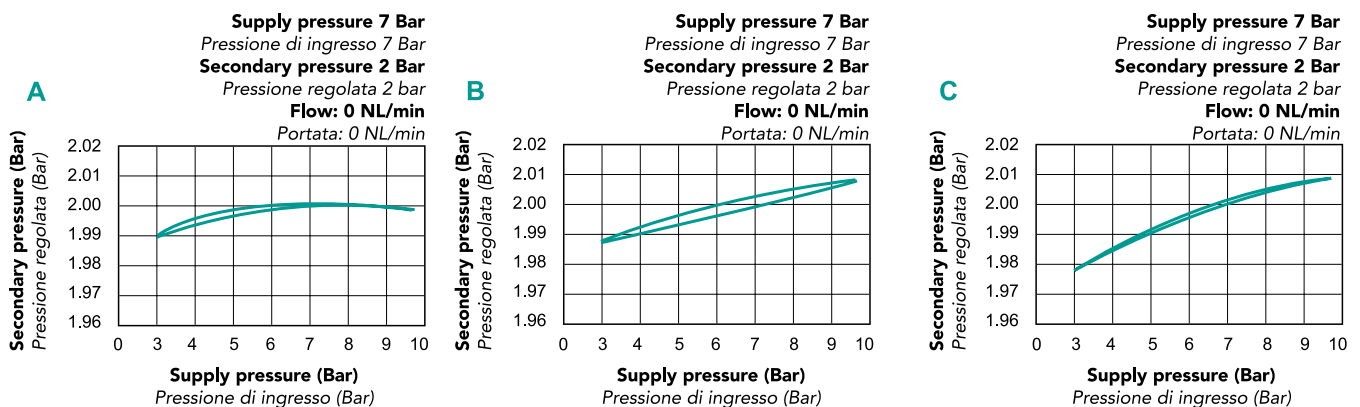
FLOW RATE HPR12 / PORTATA HPR12



RELIEF CHARACTERISTICS HPR12 / SCARICO SOVRAPRESSIONE HPR12



PRESSURE CHARACTERISTICS HPR12 / PRESSIONE HPR12





DESCRIPTION / DESCRIZIONE

Vesta DPV series guarantees a stepless control of pressure by proportional electric signals, along with a construction technology based on a pneumatic-pilot high-sensitivity diaphragm. Easy and quick to program, DPV can be controlled with 4 different input signals (current or voltage) and it provides 4 different output signals (analog or switch). Power supply is DC24V. The display can be set in MPA, BAR, PSI pressure units. The series is available in three sizes: 1/8", 1/4" and 1/2", each of them with 3 different options of pressure ranges, from 0.05 to 9 Bar.

Vesta DPV garantisce un controllo continuo e preciso della pressione tramite segnali elettrici proporzionali, uniti ad una tecnologia costruttiva a membrana con pilotaggio pneumatico ad alta sensibilità. La programmazione è semplice ed immediata; può essere comandata con 4 diversi segnali input (in corrente o tensione) e comunicare con 4 diversi segnali output (analogico o digitale/switch). L'alimentazione è DC24V. Il display può essere letto con diverse unità di misura della pressione (MPa, BAR, e PSI). La serie è disponibile in tre diverse taglie: 1/8", 1/4" e 1/2", ognuna con 3 diverse opzioni di range di pressione regolabile, da 0,05 a 9 Bar.

ENCODING / CODIFICA

DPV -

Model:

Modello:

18 1/8" size, G1/4 port

14 1/4" size, G1/4 port

12 1/2" size, G1/2 port

Pressure range:

Range di pressione:

A (0,05÷1 Bar)

B (0,05÷5 Bar)

C (0,05÷9 Bar)

Input:

Input:

0 Current DC 4-20mA

1 Current DC 0-20mA

2 Voltage DC 0-5 V

3 Voltage DC 0-10 V

Output:

Output:

1 Analog DC 1-5 V

2 Switch NPN Output

3 Switch PNP Output

4 Analog DC 4-20mA

Cables and brackets / Cavi e staffe di fissaggio (DPV18/14/12)

90° 3mt. cable M12x3 / Cavo 90° 3mt. M12x3

Straight 3mt. cable M12x3 / Cavo dritto 3mt. M12x3

Flat Bracket / Staffa piatta

L bracket / Staffa a L

DPV-X

DPV-Y

DPV-F

DPV-L

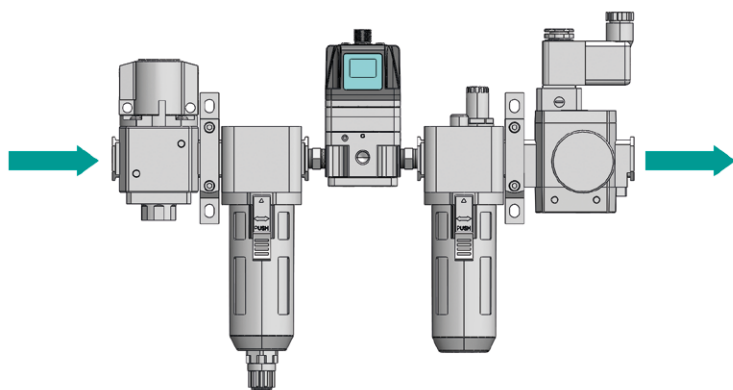
FIELDS OF APPLICATION / SETTORI DI APPLICAZIONE

Vesta DPV proportional valves series can be applied in different industrial fields, for a number of precision control applications. Different sizes offer different flow rates, making DPV suitable for a wide range of automation needs:

La serie di valvole proporzionali Vesta DPV può essere usata in diversi ambiti industriali, per un ampio numero di applicazioni dove è richiesto controllo di precisione. Le diverse taglie offrono diverse portate, rendendo la valvola DPV adatta a rispondere a svariate esigenze di automazione:

- **Plastic moulding , for securing application and control in extrusion**
Stampa plastica, per il controllo preciso e dinamico dell'estrusione
- **Winding and laminating , for friction roller precision deceleration and contact systems**
Avvolgimento e laminazione, sistemi a contatto e decelerazione di precisione
- **Printing and packaging, for controlling contact winding rollers for precise paper tension**
Stampa e packaging, per tensionamento preciso e controllato della carta
- **Lifting and handling , for precise manipulation and gripping, zero gravity load manipulators**
Manipolazione e sollevamenti, per il controllo di azzeratori di gravità
- **Welding, for maximum control in welding guns approaching and precision holding**
Saldatura, per il massimo controllo nel posizionamento delle pistole di saldatura
- **Lapping and polishing , for precision holding in special fields (glass and marble surfaces)**
Smerigliatura e lucidatura, per sistemi di blocco in settori speciali (vetro e marmo)
- **Pneumatic system testing, for checking pressure ramps , leak proof , dynamic response**
Test di sistemi pneumatici, per il controllo di rampe di pressione e perdite
- **Fluid process, for precisely adjusting the pressure output of pumps and blowing applications**
Processo per regolazione precisa dell'output di pompe e sistemi di soffio

FRL GROUP ASSEMBLY / ASSEMBLAGGIO IN GRUPPO FRL



The proportional valve can be mounted within a FRL/air treatment group, after the filtering element (5µ filtering element for optimal use) and before the lubricator.

La valvola proporzionale può essere montata all'interno del gruppo FRL/unità di trattamento dell'aria, collocata a valle del filtro (per un utilizzo ottimale si consiglia un elemento filtrante da 5µ) e prima del lubrificatore.

TECHNICAL FEATURES / CARATTERISTICHE TECNICHE

Pressure range <i>Range disponibili:</i>		A - 0.05 / 1 Bar B - 0.05 / 5 Bar C - 0.05 / 9 Bar
Maximum inlet pressure <i>Pressione massima di ingresso</i>	DPV-A DPV-B/C	2 Bar 10 Bar
Minimum inlet pressure <i>Pressione minima</i>		Set Pressure + 1 Bar
Ambient and fluid temperature <i>Temperatura ambiente e fluido</i>		0-50°C
Protection class <i>Classe di protezione</i>		IP65
Power Supply <i>Alimentazione elettrica</i>		DC 24V±10%
Input Signal <i>Segnale Input</i>	Voltage / Voltaggio Current / Tensione	DC 4~20mA, DC 0~20mA DC 0~5V, DC 0~10V
Input Impedance <i>Impedenza Input</i>	Voltage / Voltaggio Current / Tensione	≤10Ω ~6,5 KΩ
Output Signal <i>Segnale Output</i>	Analog / Analogico Switch / Digitale	DC 1~5V (impedance 1KΩ or more) DC 4~20mA (impedance 250Ω or less) NPN. PNP: 30mA
Linearity <i>Linearità</i>		1% F.S.
Hysteresis <i>Isteresi</i>		0,5% F.S.
Repeatability <i>Ripetibilità</i>		0,5% F.S.
Temperature Drift <i>Variazione di temperatura</i>		2% F.S.
Response time <i>Tempo di risposta</i>	DPV18 DPV14 DPV12	0,2-0,3s 0,2-0,3s 0,3-0,4s
Display <i>Display</i>	Accuracy / Precisione Unit / Unità di misura	2% F.S. M Pa, bar, PSI
Weight <i>Peso</i>	DPV18 DPV14 DPV12	270 gr 385 gr 800 gr

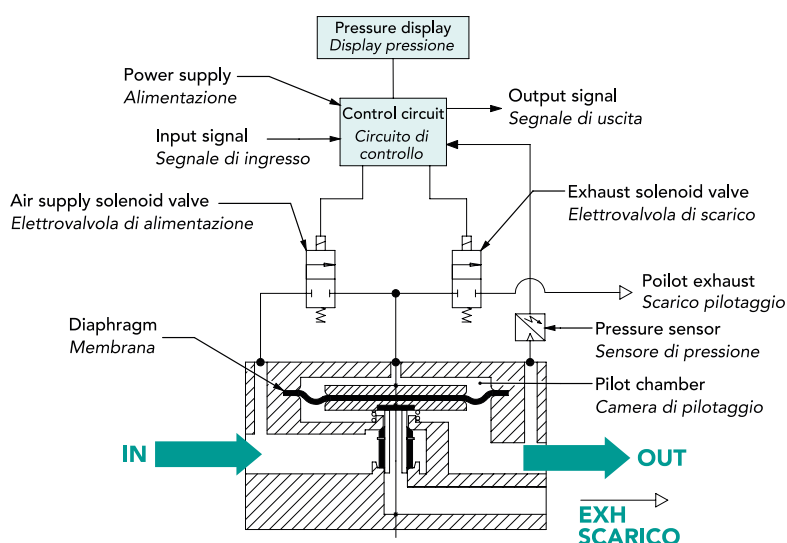
Note: for optimal use, filtered air (5μ) not lubricated / *Nota: per utilizzo ottimale, aria filtrata (5μ) non lubrificata*

PNEUMATIC FUNCTIONING / FUNZIONAMENTO PNEUMATICO

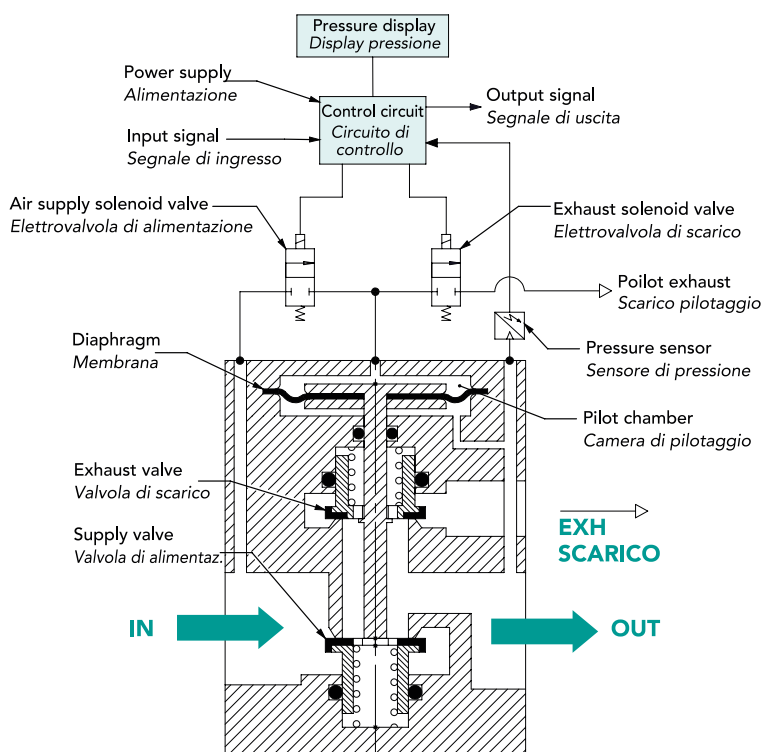
As the electric input signal increases, the supply and exhaust solenoid valves provide pressure control to the diaphragm that opens the supply valve; this guarantees a precise output of pressure that is constantly controlled by an electronic sensor, and kept regulated proportionally to the input signal. Over pressure (or back pressure) is quickly exhausted by a high-flow exhaust valve. The exhaust of the pilot solenoid valves can be conveyed.

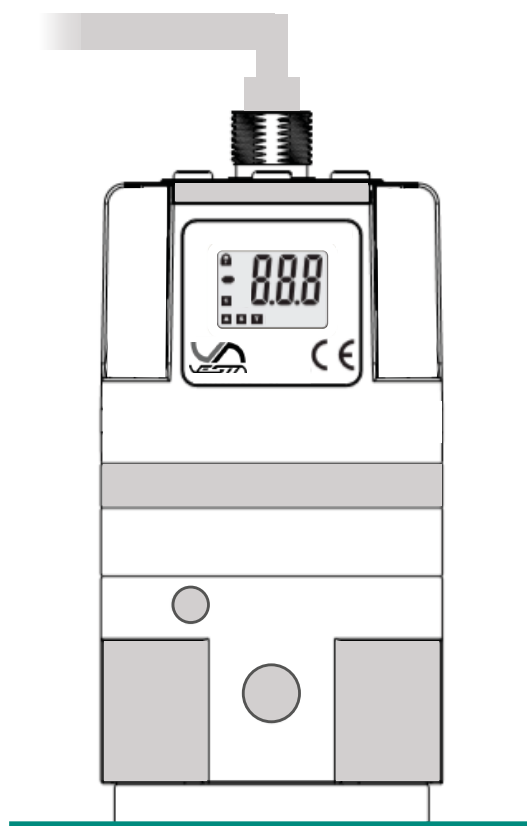
Con l'aumento del segnale elettrico di input, le elettrovalvole di carico e scarico comandano pressione sulla membrana che controlla l'apertura della valvola di alimentazione; questo permette di un preciso output di pressione in uscita, che viene costantemente monitorata da un sensore elettronico, e tenuta regolata proporzionalmente al segnale di input. La sovrappressione (o contropressione) viene velocemente scaricata da una valvola di scarico ad alta portata. Lo scarico delle elettrovalvole di pilotaggio può essere convogliato.

DPV18



DPV14-12





SIGNAL & DISPLAY / SEGNALE E DISPLAY

DPV valve is controlled by a 14 bit internal analog-to-digital converter capable of analyzing high resolution input signals (Current: 4-20mA, 0-20mA or Voltage: 0-5V, 0-10V).

The high-brightness LCD display can be set in different units (BAR, MPA, PSI) and allows different settings, such as the scaling of input signal, manual pressure regulation, programmable pressure ranges and different levels of response/sensitivity. Safety features include the manumission-protection locking of the keyboard, and the pressure retainment of the last input if power supply is cut off.

More information available in the Operation Manual.

La valvola DPV è controllata da un convertitore analogico-digitale interno a 14 bit, in grado di apprezzare valori di segnale input ad elevata risoluzione, in corrente (4-20mA, 0-20mA) o tensione (0-5V, 0-10V).

Il display ad alta luminosità riproduce diverse unità di misura (BAR, MPA, PSI) e permette di accedere a diversi tipi di setting, come la gestione del segnale di ingresso, la regolazione manuale della pressione, la programmazione di range di pressione e la gestione della risposta/sensibilità della valvola.

Ulteriori caratteristiche sono il bloccaggio antimanomissione della tastiera, e la tenuta della pressione dell'ultimo segnale in caso di perdita di corrente.

Maggiori informazioni sono disponibili nel manuale operativo.

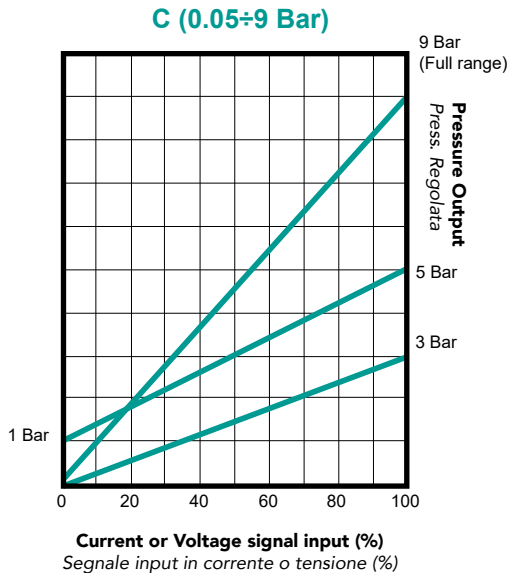
OPERATION MANUAL / MANUALE OPERATIVO

The following instructions are available in the Operation Manual:

Le seguenti istruzioni sono disponibili nel manuale operativo

- **Wiring & Connections**
- *Cablaggio e connessioni elettriche*
- **Setting Method: manual setting of minimum and maximum pressure (P1-P2)**
- *Settaggio manuale della pressione minima e pressione massima (P1-P2)*
- **Switch Output mode (Window Comparator, Hysteresis, Out Of Range)**
- *Modalità di output switch (Window Comparator, Hysteresis, Out Of Range)*
- **Function settings (F01 Unit, F02 Input Adjustment, F03 Gain Level, F04 Zero Clear, F05 Initialize)**
- *Regolazione funzioni (F01 unità di misura, F02 segnale input, F03 sensibilità, F04 Zero Clear, F05 reset)*
- **Preset pressure setting**
- *Preset dei valori di pressione*
- **Error messages & Actions**
- *Messaggi di errore e azioni di ripristino*

INPUT SIGNAL LINEARITY / LINEARITÀ DEL SEGNALE INPUT



DPV allows to set different ranges of pressure, always using 100% of the input signal (Current or Voltage).

This chart shows the linearity of different examples of applications with a regulation range from 0 to 9 Bar.

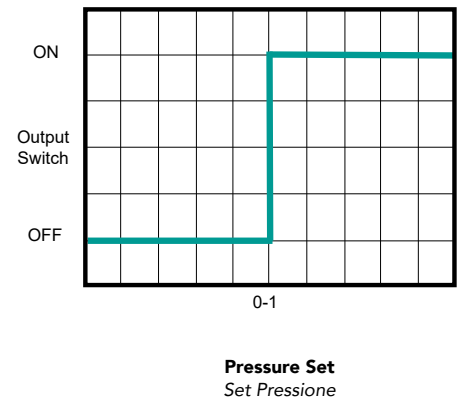
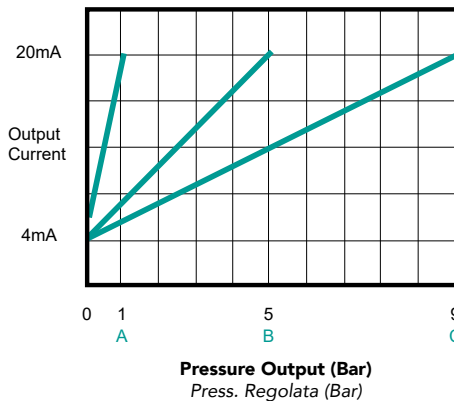
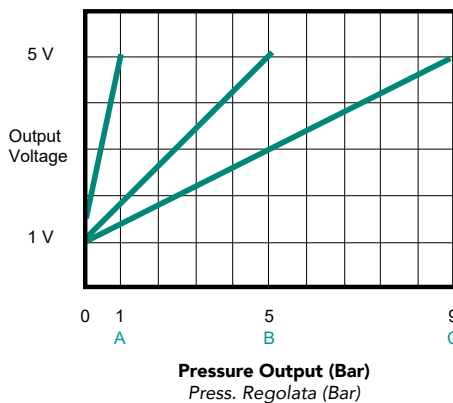
The input signal can control the full pressure range (from 0 to 9 Bar), or different levels of maximum and minimum pressure (P1 and P2), which can be manually reduced from the top and/or the bottom of the available pressure range (shown examples are from 0 to 3 Bar and from 1 to 5 Bar).

La valvola DPV permette di settare diversi range di pressione, utilizzando sempre il 100% del segnale input (in corrente o tensione).

Questo grafico mostra la linearità di diverse applicazioni esemplificative con un range di regolazione da 0 a 9 Bar.

Il segnale input può controllare l'intero range di pressione (da 0 a 9 Bar), o diversi livelli di pressione minima e massima (P1 e P2), che possono essere ridotti manualmente dall'altro e/o dal basso del range di pressione disponibile (gli esempi mostrati sono da 0 a 3 Bar e da 1 a 5 Bar).

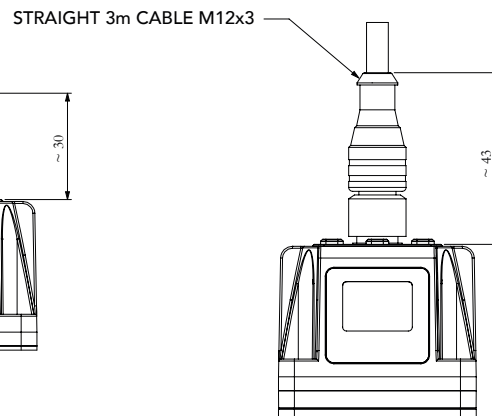
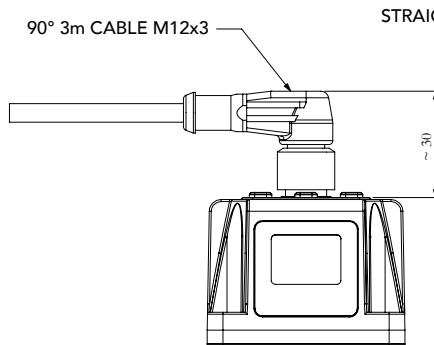
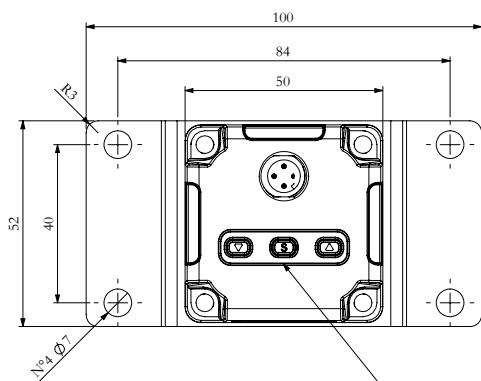
OUTPUT SIGNAL / SEGNALE OUTPUT



Operating pressure value output is available with analog signal (Current 4-20mA or Voltage 1-5V) or with switch ON-OFF signal (PNP, NPN) that can be read in three modes: Window Comparator, Hysteresis, Out of Range. More information available in the Operation Manual.

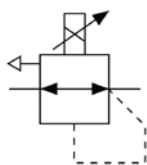
L'output per la rilettura del valore di pressione è disponibile con segnali analogici (in corrente 4-20mA o tensione 1-5V) o con segnale digitale switch ON-OFF (PNP, NPN) che possono essere letti in tre modalità: Window Comparator, Hysteresis, Out of Range. Maggiori informazioni sono disponibili nel manuale operativo.

DIMENSIONS / DIMENSIONI

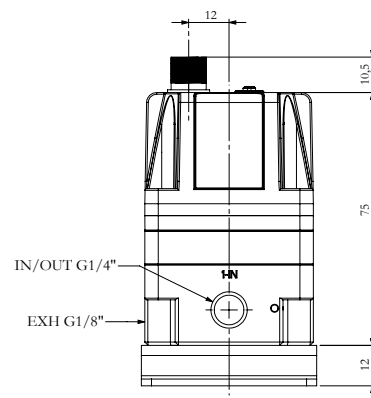
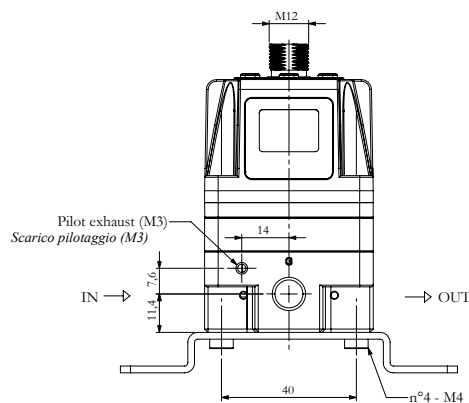


Keys for Unit setting, Display settings, Manual pressure settings, Error settings.
All information about Setting Method is available in the DPV Operation Manual.

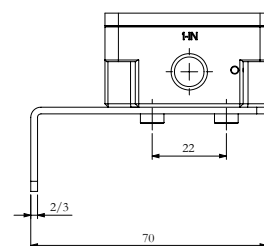
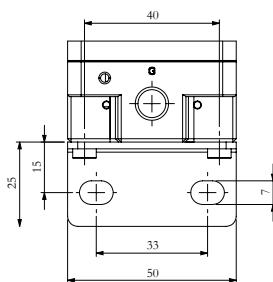
*Pulsanti per Unit setting, Display settings, Manual pressure settings, Error settings.
Tutte le informazioni sono disponibili nel Manuale Operativo.*



FLAT BRACKET ASSEMBLY STAFFA PIATTA

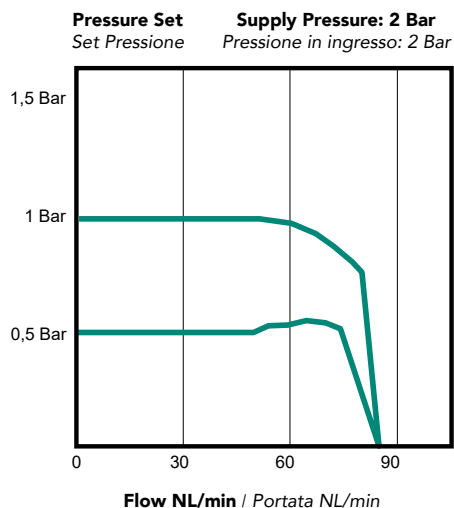


L BRACKET ASSEMBLY STAFFA A L

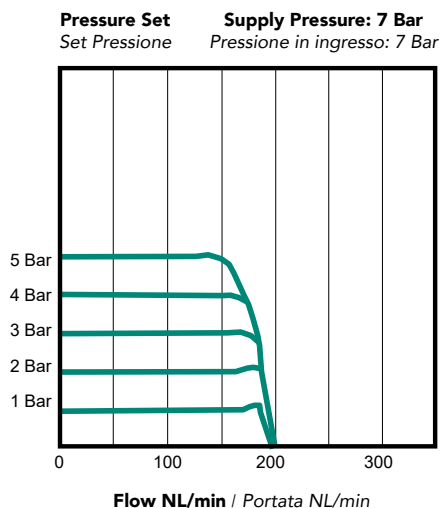


FLOW RATE DPV18 / PORTATA DPV18

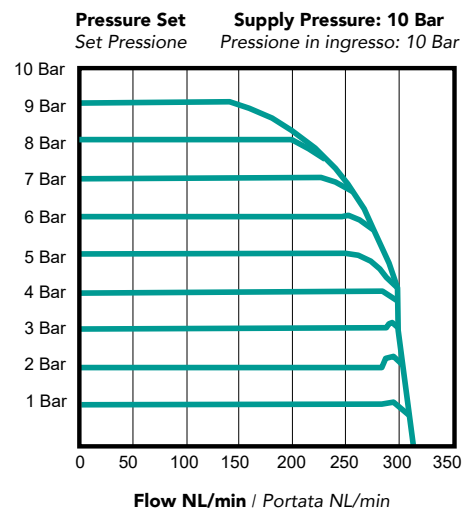
A (0.05÷1 Bar)



B (0.05÷5 Bar)

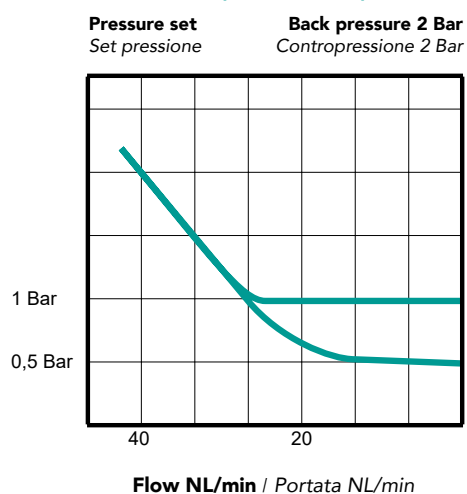


C (0.05÷9 Bar)

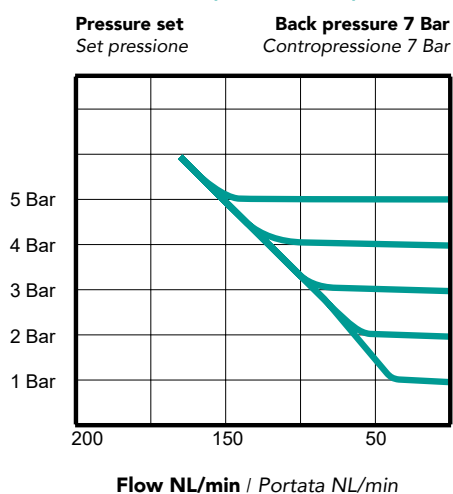


RELIEF CHARACTERISTICS DPV18 / SCARICO PRESSIONE DPV18

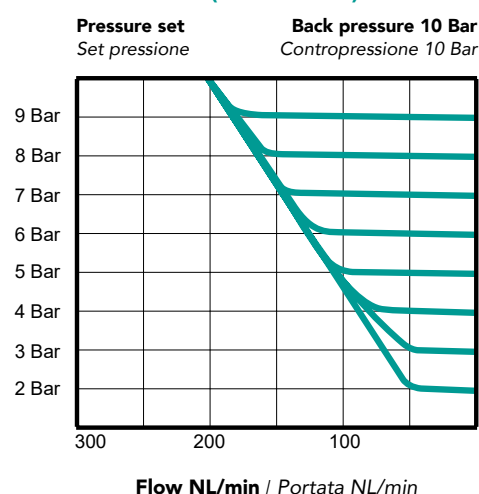
A (0.05÷1 Bar)



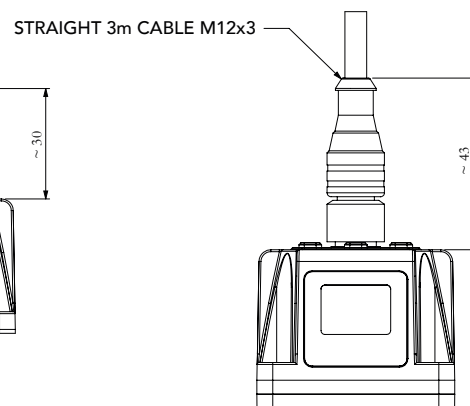
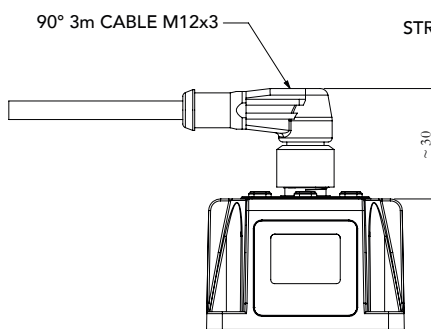
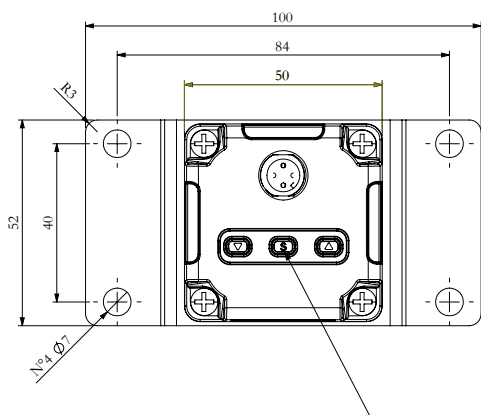
B (0.05÷5 Bar)



C (0.05÷9 Bar)

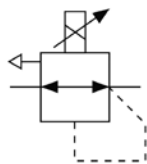


DIMENSIONS / DIMENSIONI

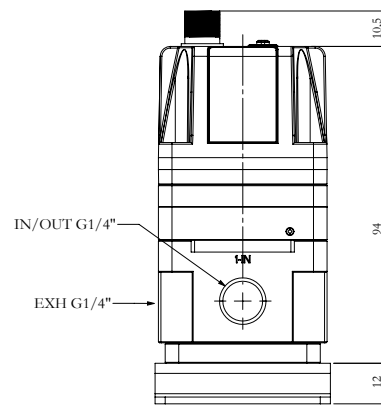
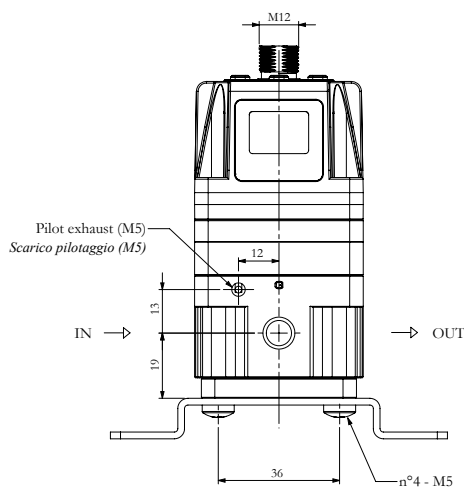


Keys for Unit setting, Display settings, Manual pressure settings, Error settings.
All information about Setting Method is available in the DPV Operation Manual.

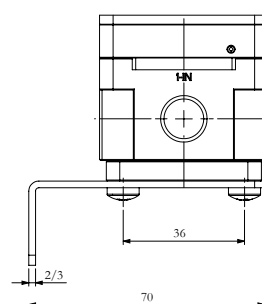
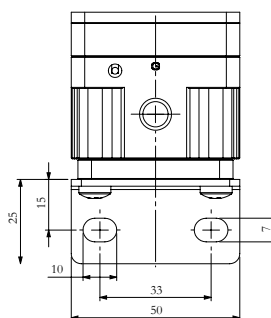
Pulsanti per Unit setting, Display settings, Manual pressure settings, Error settings.
Tutte le informazioni sono disponibili nel Manuale Operativo.



FLAT BRACKET ASSEMBLY STAFFA PIATTA

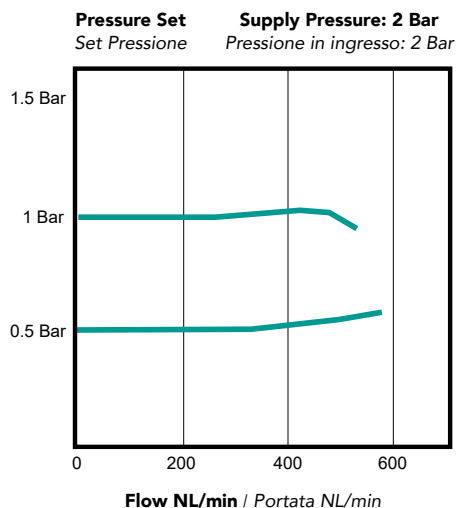


L BRACKET ASSEMBLY STAFFA A L

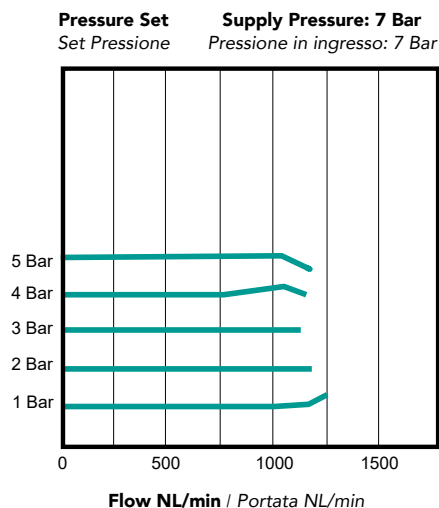


FLOW RATE DPV14 / PORTATA DPV14

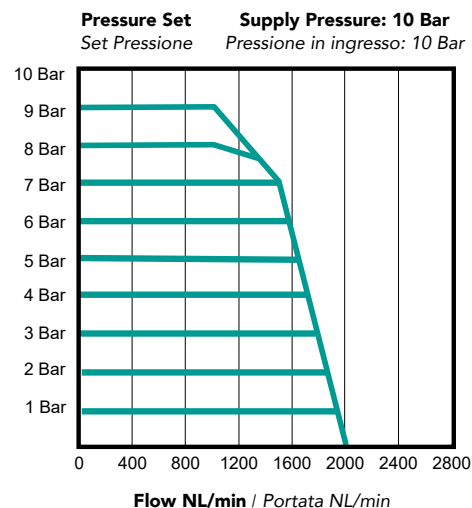
A (0.05÷1 Bar)



B (0.05÷5 Bar)

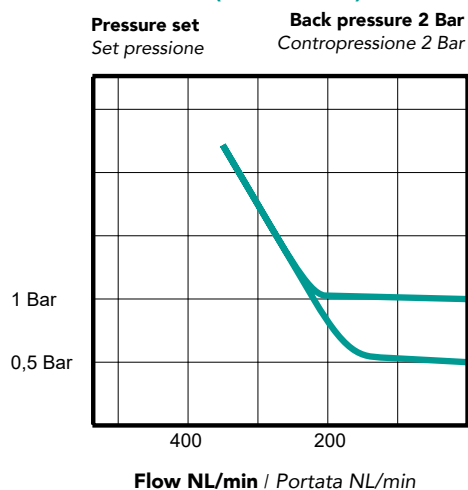


C (0.05÷9 Bar)

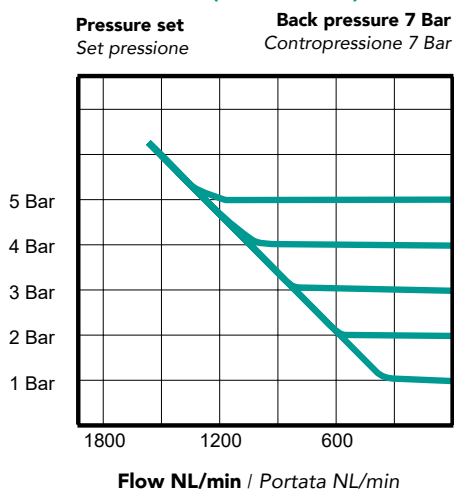


RELIEF CHARACTERISTICS DPV14 / SCARICO PRESSIONE DPV14

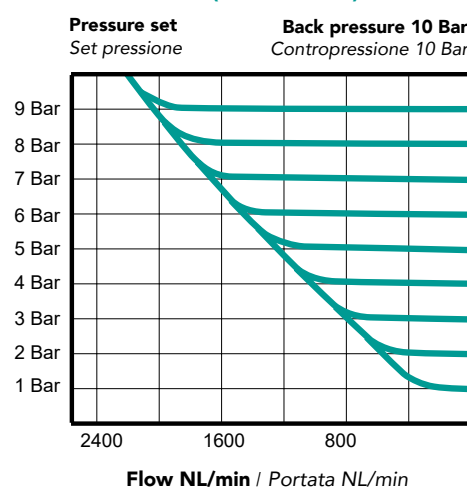
A (0.05÷1 Bar)



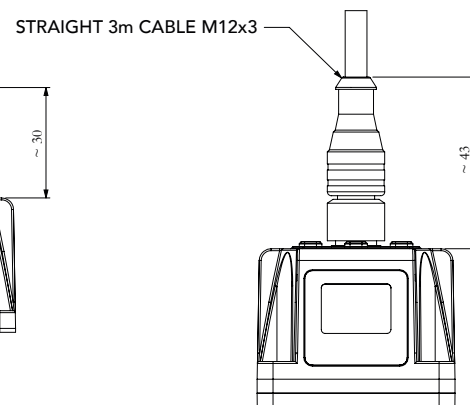
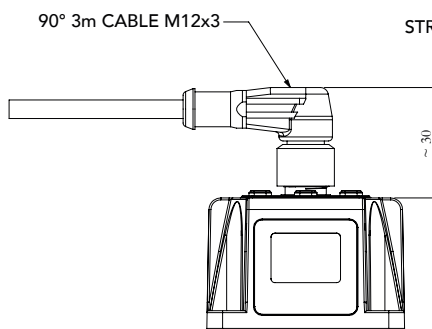
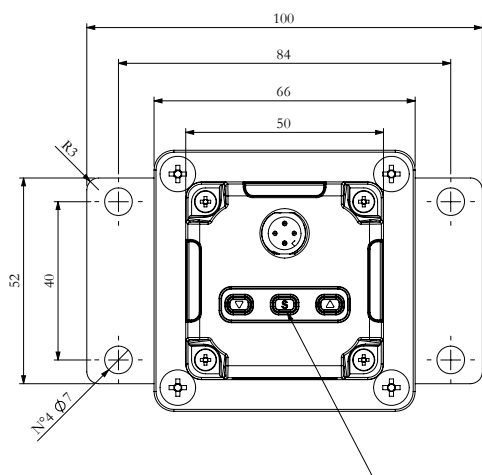
B (0.05÷5 Bar)



C (0.05÷9 Bar)

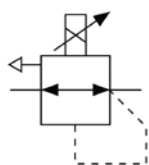
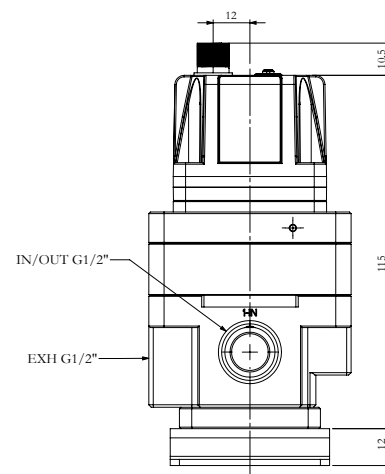
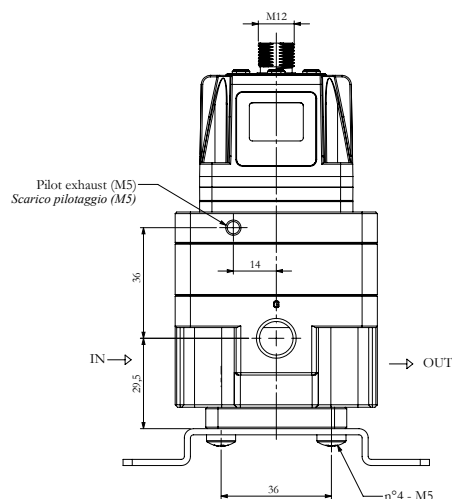
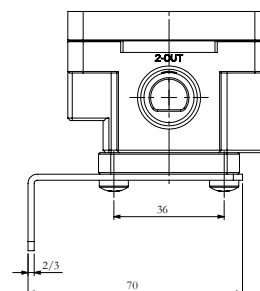
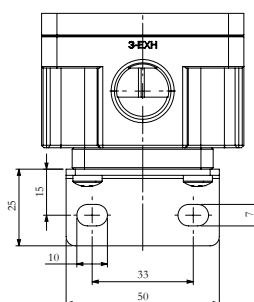


DIMENSIONS / DIMENSIONI



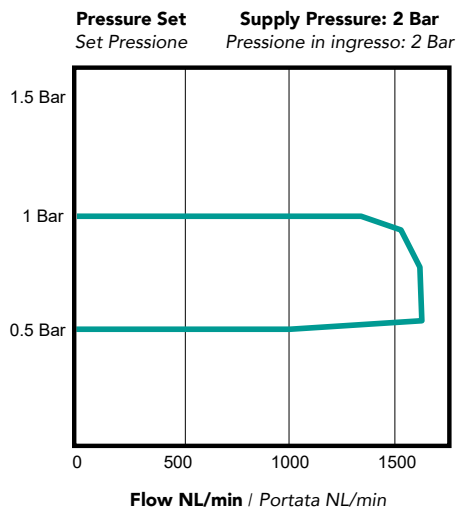
Keys for Unit setting, Display settings, Manual pressure settings, Error settings.
All information about Setting Method is available in the DPV Operation Manual.

Pulsanti per Unit setting, Display settings, Manual pressure settings, Error settings.
Tutte le informazioni sono disponibili nel Manuale Operativo.

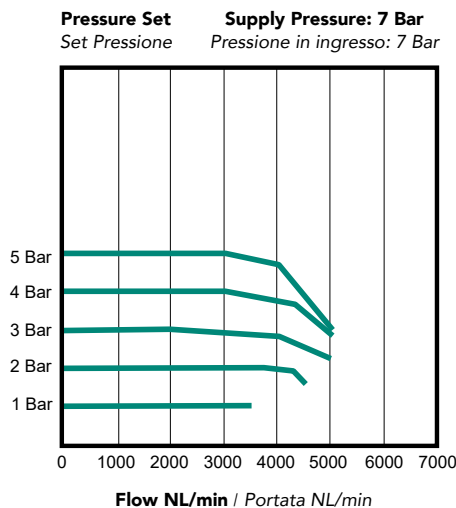
FLAT BRACKET ASSEMBLY
STAFFA PIATTAL BRACKET ASSEMBLY
STAFFA A L

FLOW RATE DPV12 / PORTATA DPV12

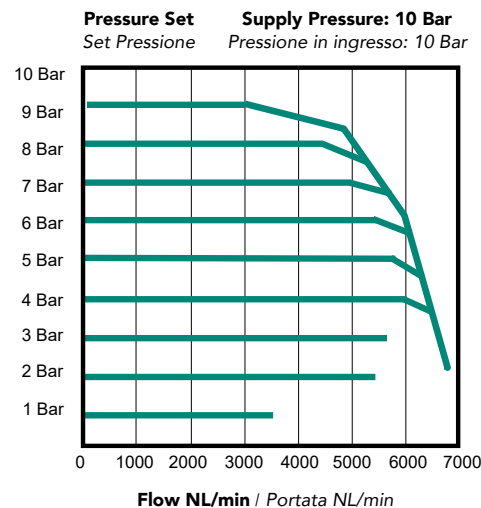
A (0.05÷1 Bar)



B (0.05÷5 Bar)

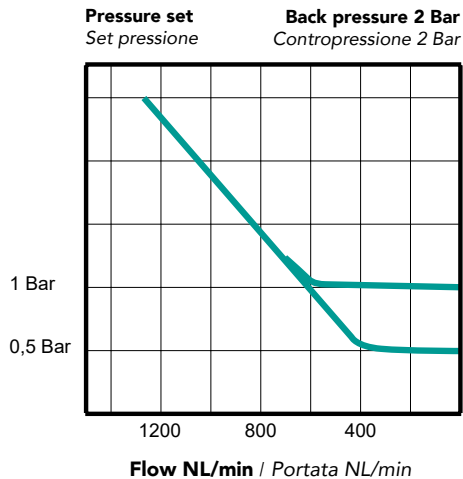


C (0.05÷9 Bar)

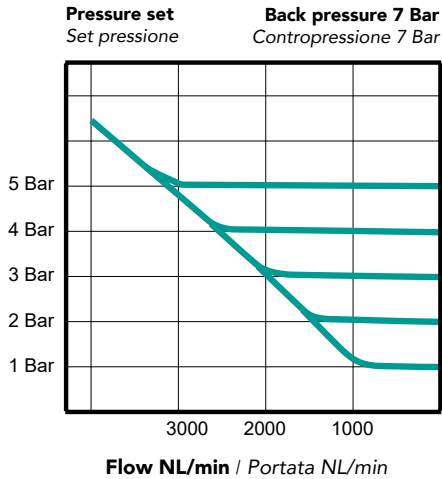


RELIEF CHARACTERISTICS DPV12 / SCARICO PRESSIONE DPV12

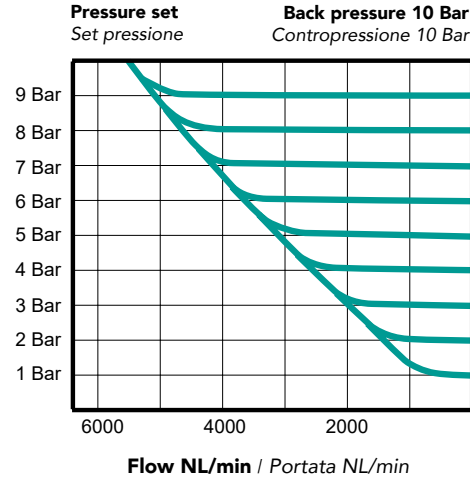
A (0.05÷1 Bar)



B (0.05÷5 Bar)



C (0.05÷9 Bar)



NOTE

