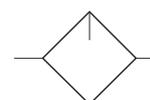


- Lubrificatore venturi con compensazione automatica della portata  
*Oil mist lubricator with flow compensation*
- Rifornimento olio manuale anche in presenza di pressione  
*Manual oil refilling, possible also in presence of pressure*
- Installazione verticale; staffa di fissaggio a richiesta  
*Vertical installation; bracket on request*
- Capacità tazza: 35 cm<sup>3</sup>  
*Bowl capacity: 35 cm<sup>3</sup>*



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		LUB 2MK-00
Attacchi <i>Ports</i>		G1/4"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C
Peso <i>Weight</i>		0.15 kg
Pressione di esercizio <i>Working pressure range</i>	$p_{min}$ $p_{max}$	1.5 bar; 0.15 MPa 12 bar; 1.2 MPa
Portata massima <i>Maximum flow rate</i>	$Q_{max}$	1400 NI/min
	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	

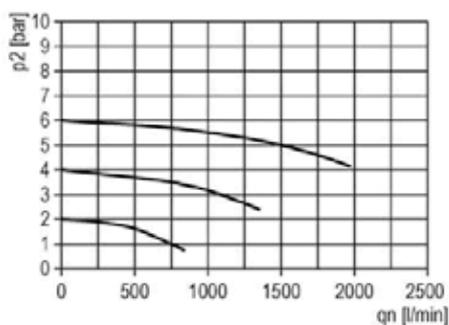
### Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX  
Tazza: policarbonato

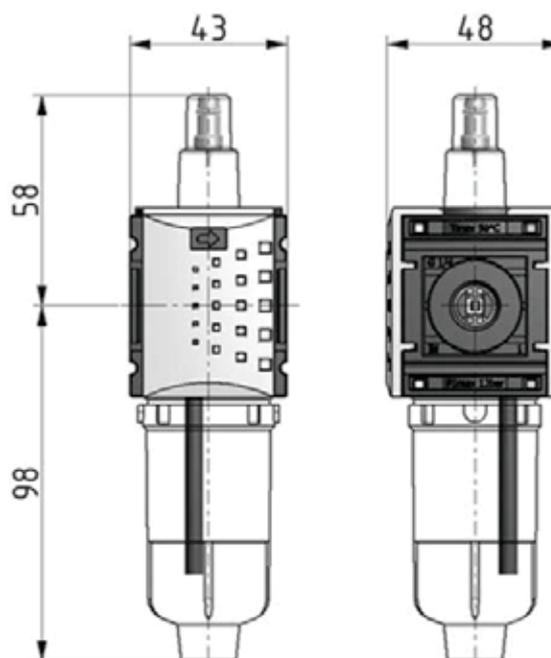
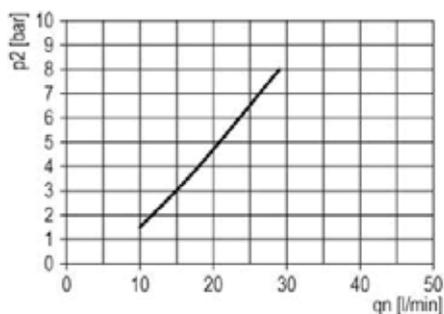
### Materials

Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel  
Bowl: polycarbonate

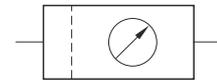
Caratteristiche di portata  
*Flow characteristics*



Rapporto olio/aria  
*Oil/air ratio*

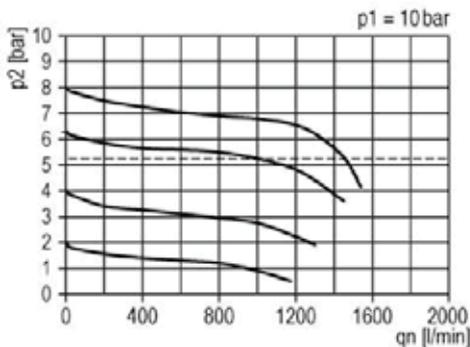


- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5  $\mu\text{m}$   
*Diaphragm-type pressure regulator with relieving; filtro 5  $\mu\text{m}$*
- Manometro incorporato  
*Embedded manometer*
- Installazione in linea o a pannello; staffa di fissaggio e ghiera a richiesta  
*In-line or panel mounting; mounting bracket and ring on request*

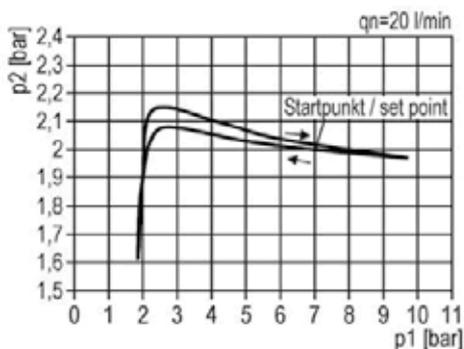


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR 2MK-08-05-S
Attacchi <i>Ports</i>		G1/4"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C
Peso <i>Weight</i>		0.23 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	1.5 bar; 0.15 MPa 12 bar; 1.2 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0 bar; 0 MPa 8 bar; 0.8 MPa
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ $Q_{\text{max}}$	1000 NI/min

Caratteristiche di portata  
*Flow characteristics*



Isteresi  
*Hysteresis*

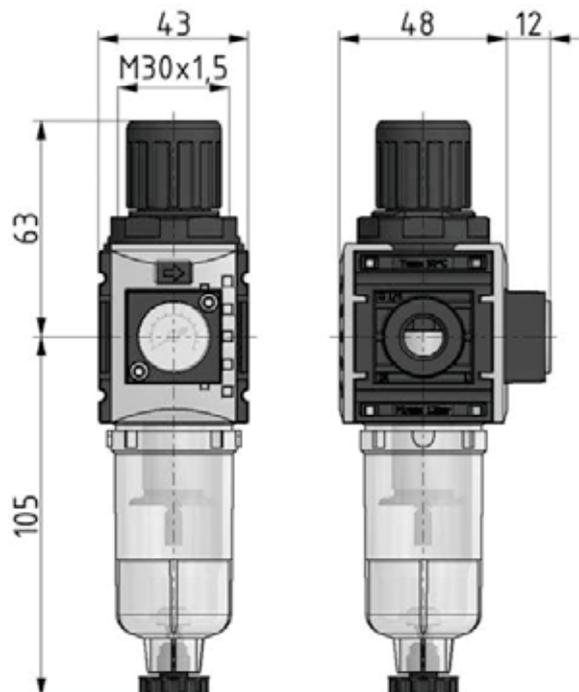


## Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX  
Tazza: policarbonato

## Materials

Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel  
Bowl: polycarbonate



- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5  $\mu\text{m}$   
*Diaphragm-type pressure regulator with relieving; filtro 5  $\mu\text{m}$*
- Manometro incorporato; capacità tazza: 35  $\text{cm}^3$   
*Embedded manometer; bowl capacity: 35  $\text{cm}^3$*
- Installazione in linea o a pannello; staffa di fissaggio e ghiera a richiesta  
*In-line or panel mounting; mounting bracket and ring on request*



CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 2MK-08-05-S
Attacchi <i>Ports</i>		G1/4"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C
Peso <i>Weight</i>		0.39 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	1,5 bar; 0.15 MPa 12 bar; 1.2 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0 bar; 0 MPa 8 bar; 0.8 MPa
Portata massima <i>Maximum flow rate</i>	$Q_{\text{max}}$	600 NI/min

$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$

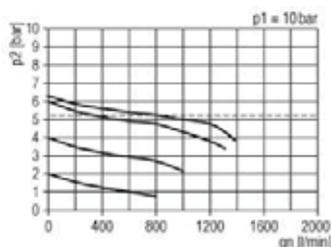
### Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX  
Tazza: policarbonato

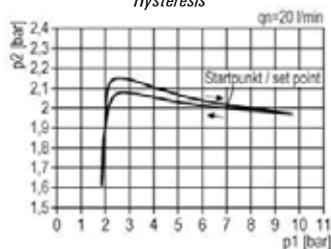
### Materials

Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel  
Bowl: polycarbonate

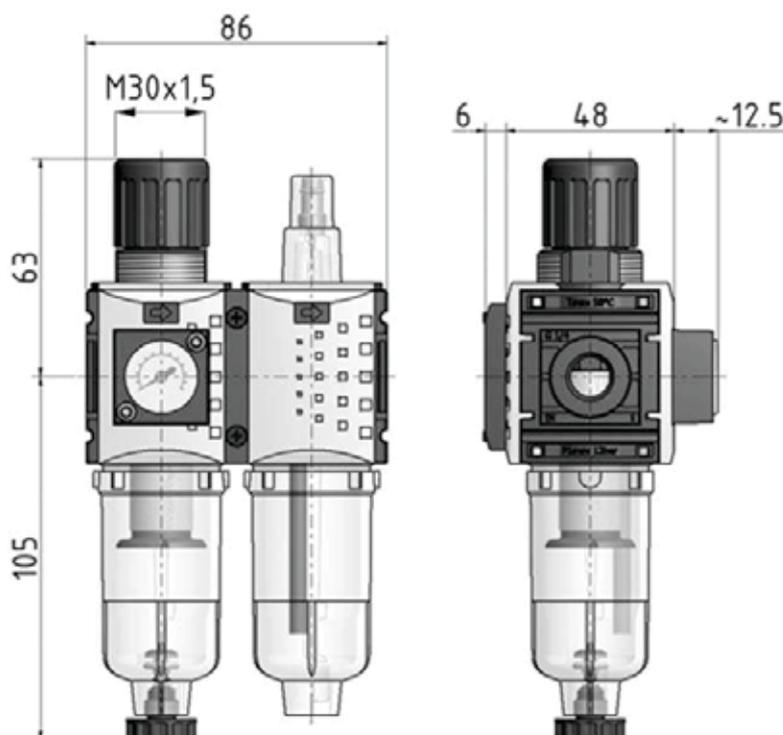
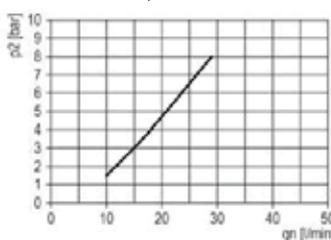
Caratteristiche di portata  
*Flow characteristics*



Isteresi  
*Hysteresis*



Rapporto olio/aria  
*Oil/air ratio*

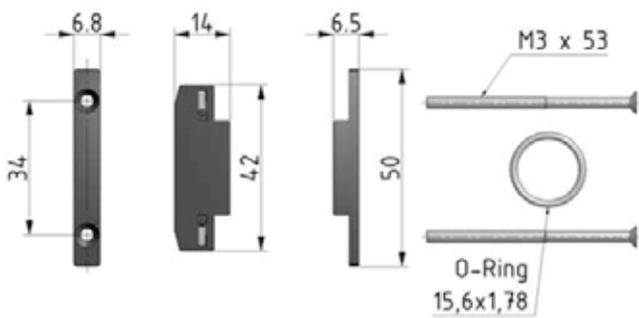


## KIT MONTAGGIO

*coupling kit*

### KIT 2MK-00

G1/4"

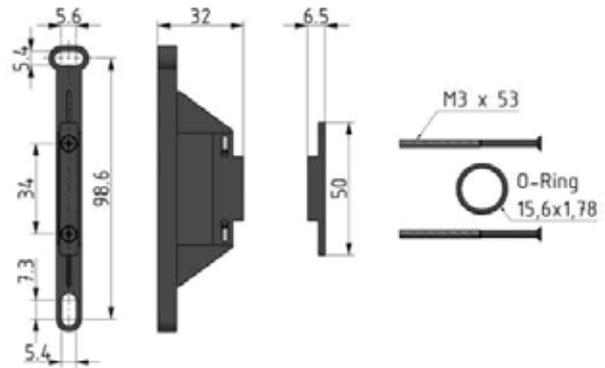


## KIT MONTAGGIO CON STAFFA DI FISSAGGIO

*coupling kit with mounting bracket*

### KIT 2MK-01

G1/4"

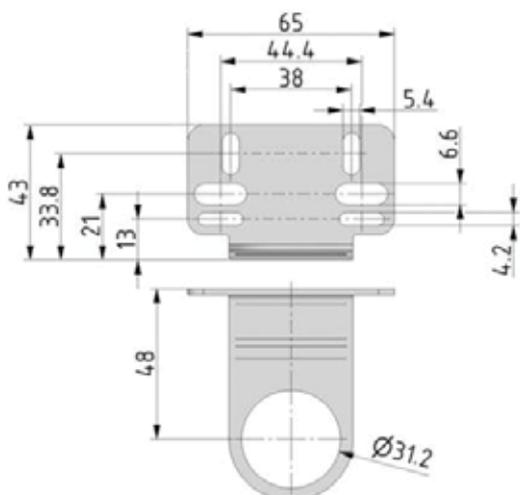


## STAFFA DI FISSAGGIO

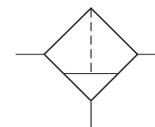
*mounting bracket*

### STF 2MK

G1/4"

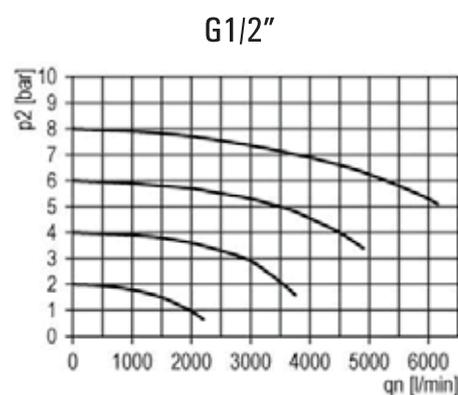
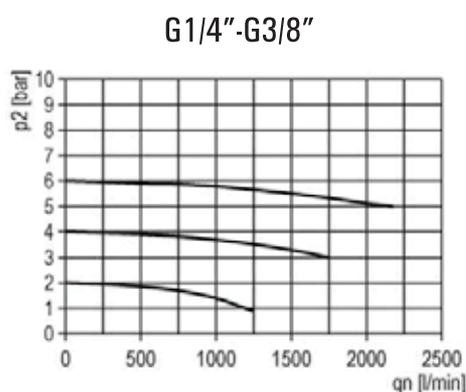


- Sistema di funzionamento: gruppo ciclone ed elemento filtrante  
*Cyclone system and filter element*
- Separazione condensa: 95%  
*Moisture separation: 95%*
- Scarico della condensa semiautomatico  
*Semi-automatic moisture exhaust*
- Installazione verticale; staffa di fissaggio a richiesta  
*Vertical installation; bracket on request*
- Protezione della tazza di serie  
*Bowl protection already mounted*



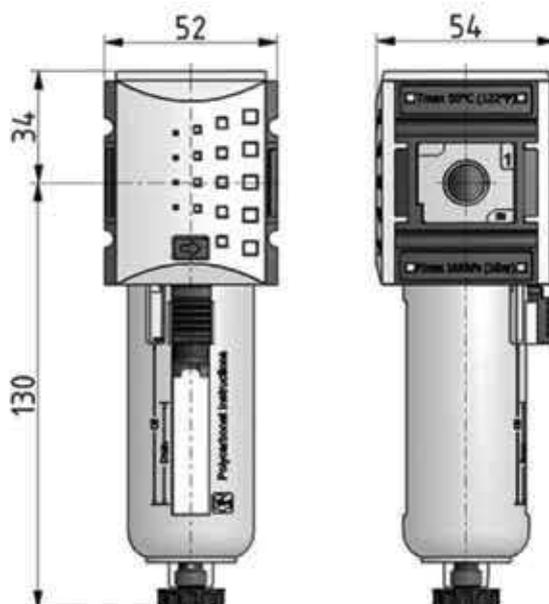
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FIL 2K-05-S	FIL 3K-05-S	FIL 4K-05-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Scarico della condensa <i>Moisture exhaust</i>		semiautomatico <i>semi-automatic</i>	semiautomatico <i>semi-automatic</i>	semiautomatico <i>semi-automatic</i>
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.25 kg	0.25 kg	0.4 kg
Pressione di esercizio <i>Working pressure range</i>	$p_{min}$ $p_{max}$	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa
Portata massima <i>Maximum flow rate</i>	$q_{max}$ $p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	2000 NI/min	2000 NI/min	3500 NI/min
Elemento filtrante <i>Filter element</i>		5 $\mu\text{m}$	5 $\mu\text{m}$	5 $\mu\text{m}$

Caratteristiche di portata  
*Flow characteristics*

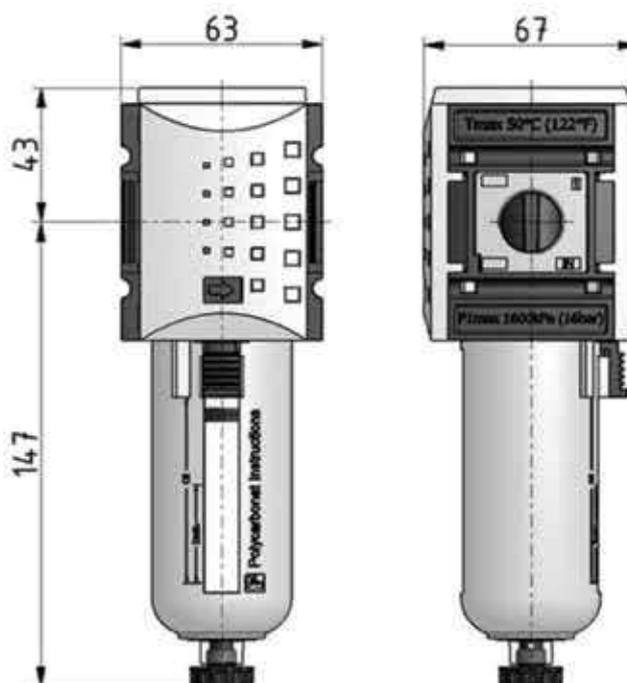


**FIL 2K-05-S**

**FIL 3K-05-S**



**FIL 4K-05-S**



## Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

Tazza interna: policarbonato

Protezione tazza: poliammide

## Materials

Body: technopolymer

Seals: NBR

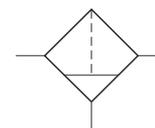
Internal parts: brass and stainless steel

Internal bowl: polycarbonate

Bowl protection: polyamide

La staffa di fissaggio deve essere acquistata separatamente.  
Mounting bracket is bought separately.

- Elementi filtranti speciali ad altissime prestazioni  
*Special filter elements with very high performances*
- Grado di filtrazione: 99.999%  
*Degree of filtration: 99.999%*
- Olio residuo: 0.01 mg/m<sup>3</sup> (concentrazione in entrata: 3 mg/m<sup>3</sup>)  
*Residual oil: 0.01 mg/m<sup>3</sup> (input concentration: 3 mg/m<sup>3</sup>)*
- Installazione verticale  
*Vertical installation*
- Protezione della tazza di serie  
*Bowl protection already mounted*



## Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX  
Tazza interna: policarbonato  
Protezione tazza: poliammide

## Materials

Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel  
Internal bowl: polycarbonate  
Bowl protection: polyamide

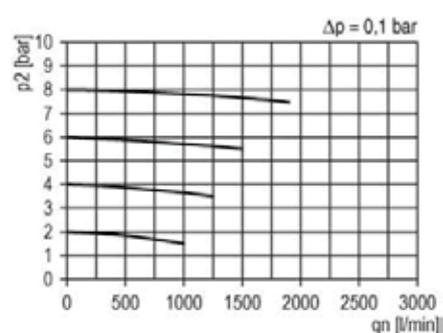
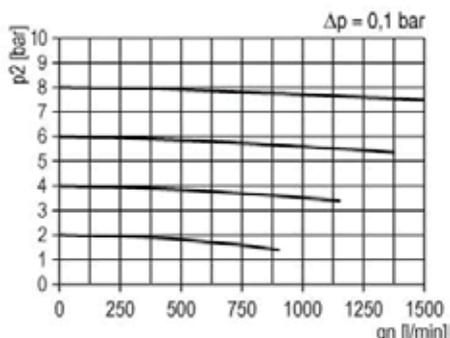
La staffa di fissaggio deve essere acquistata separatamente.  
*Mounting bracket is bought separately.*

CODICE DI ORDINAZIONE <i>ORDER CODE</i>		MFIL 2K-S	MFIL 3K-S	MFIL 4K-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.29 kg	0.29 kg	0.44 kg
Pressione di esercizio <i>Working pressure range</i>	$P_{min}$ $P_{max}$	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$Q_n$	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	350 NI/min	450 NI/min
Caduta di pressione a filtro nuovo <i>Pressure drop with new filter element</i>		0.1 bar	0.1 bar	0.1 bar
Caduta di pressione a filtro saturo <i>Pressure drop with saturated filter element</i>		0.3 bar	0.3 bar	0.3 bar

### G1/4"-G3/8"

### Caratteristiche di portata *Flow characteristics*

### G1/2"

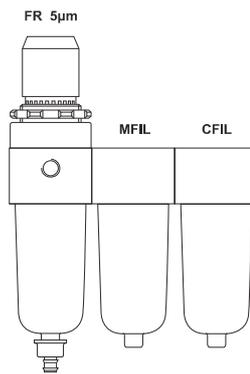


## Procedura per l'installazione

Per favorire la durata degli elementi filtranti raccomandiamo di installare, in serie, un filtro-regolatore da 5  $\mu\text{m}$ , un microfiltro e un filtro a carbone attivo.

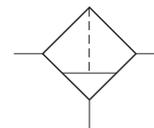
## Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter with 5  $\mu\text{m}$  degree, sub-micro-filter and activated carbon filter.



MFIL 2K-S		MFIL 3K-S		MFIL 4K-S	

- Elementi filtranti speciali a carbone attivo  
*Activated carbon filter elements*
- Olio residuo: 0.003 p.p.m. in combinazione con microfiltro  
*Residual oil: 0.003 p.p.m. in combination with sub-micro-filter*
- Installazione verticale  
*Vertical installation*
- Protezione della tazza di serie  
*Bowl protection already mounted*



### Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX  
Tazza interna: policarbonato  
Protezione tazza: poliammide

### Materials

Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel  
Internal bowl: polycarbonate  
Bowl protection: polyamide

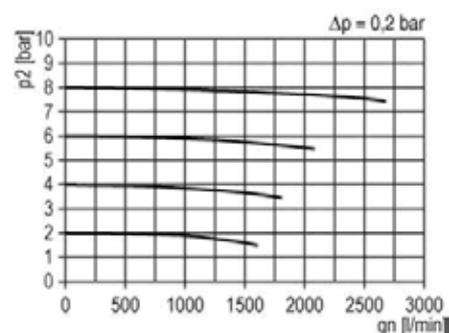
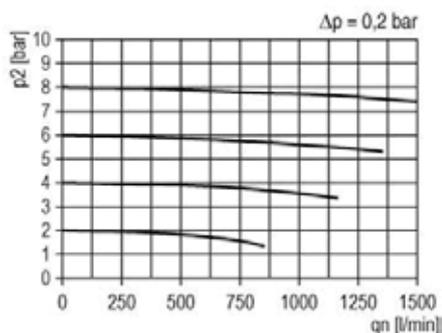
La staffa di fissaggio deve essere acquistata separatamente.  
*Mounting bracket is bought separately.*

CODICE DI ORDINAZIONE <i>ORDER CODE</i>		CFIL 2K-S	CFIL 3K-S	CFIL 4K-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.26 kg	0.26 kg	0.42 kg
Pressione di esercizio <i>Working pressure range</i>	$P_{min}$ $P_{max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata raccomandata <i>Recommended flow rate</i>	$Q_n$	$p = 6 \text{ bar a } 25 \text{ m/s}$ $p = 6 \text{ bar at } 25 \text{ m/s}$	500 NI/min	1600 NI/min
Caduta di pressione a filtro nuovo <i>Pressure drop with new filter element</i>		0.1 bar	0.1 bar	0.1 bar
Caduta di pressione a filtro saturo <i>Pressure drop with saturated filter element</i>		0.3 bar	0.3 bar	0.3 bar

### G1/4"-G3/8"

### Caratteristiche di portata *Flow characteristics*

### G1/2"

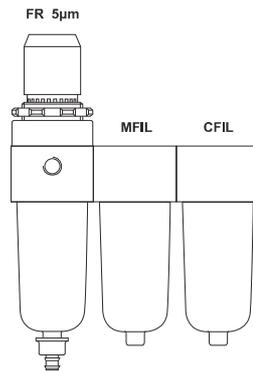


## Procedura per l'installazione

Per favorire la durata degli elementi filtranti raccomandiamo di installare, in serie, un filtro-regolatore da 5 µm, un microfiltro e un filtro a carbone attivo.

## Installation procedure

To increase the life span of the filter elements, we recommend the installation in the following order: filter with 5 µm degree, sub-micro-filter and activated carbon filter.



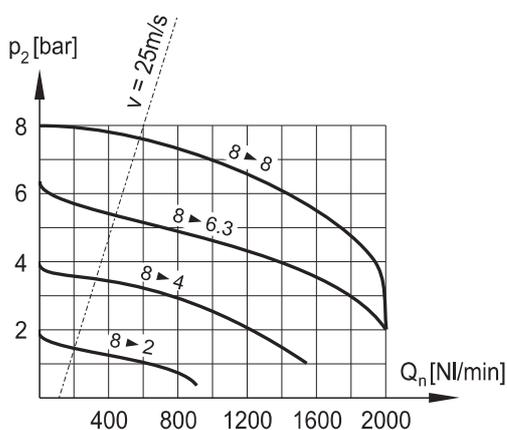
CFIL 2K-S	CFIL 3K-S	CFIL 4K-S	

- Regolatore a pistone con valvola di scarico sovrappressione (relieving)  
*Piston-type pressure regulator with relieving*
- Autocompensazione durante la regolazione  
*Self-compensated regulation*
- Corpo in alluminio 11S  
*Body in aluminium 11S*
- Grande sensibilità  
*Sensitive regulation*
- Installazione in linea o a pannello  
*In-line or panel mounting*

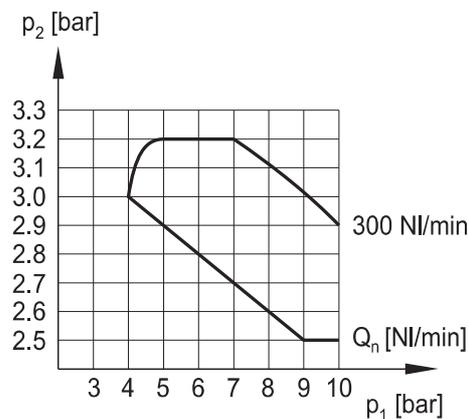


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		MREG 1-08	MREG 2-08	MREG 2-04
Attacchi <i>Ports</i>		G1/8"	G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C	max +50°C
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \min}$ $p_{1 \max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \min}$ $p_{2 \max}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.5 bar; 0.05 MPa 4 bar; 0.4 MPa
Differenza minima di pressione ( $\Delta p$ ) <i>Minimum pressure difference (<math>\Delta p</math>)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa	0.2 bar; 0.02 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	$Q_n$	300 NI/min	550 NI/min

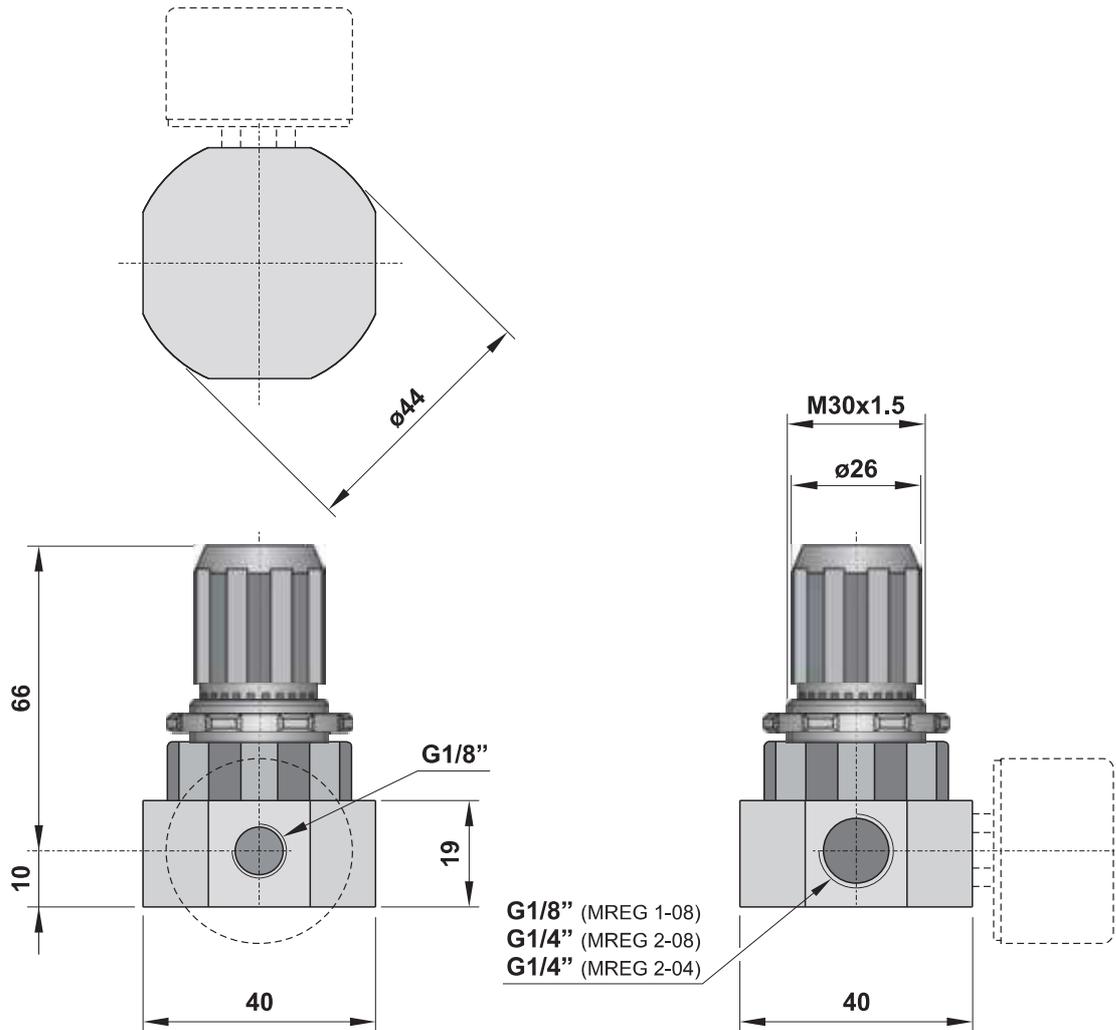
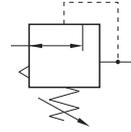
Caratteristiche di portata (MREG 2-08)  
*Flow characteristics (MREG 2-08)*



Variazione della pressione di utilizzo in presenza di fluttuazioni della pressione di alimentazione (MREG 2-08)  
*Outlet pressure variation with fluctuating inlet pressure (MREG 2-08)*



Il manometro deve essere acquistato separatamente.  
 The manometer is bought separately.



## Materiali

Corpo: alluminio 11S anodizzato naturale  
 Molle: INOX  
 Guarnizioni: NBR  
 Parti interne: ottone, INOX e polimeri

## Materials

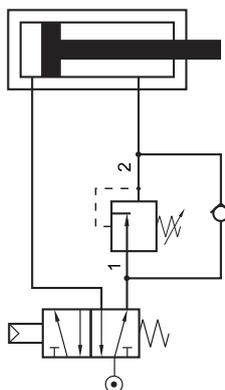
Body: aluminium 11S (natural anodize treatment)  
 Springs: stainless steel  
 Seals: NBR  
 Internal parts: brass, stainless steel and polymer

- Regolatore a pistone  
*Piston-type pressure regulator*
- Con valvola di non ritorno per scavalcare il regolatore nel senso da 2 a 1  
*With non-return valve to by-pass the regulator in direction from 2 to 1*
- Corpo in alluminio 11S  
*Body in aluminium 11S*
- Grande sensibilità  
*Sensitive regulation*
- Installazione in linea o a pannello  
*In-line or panel mounting*



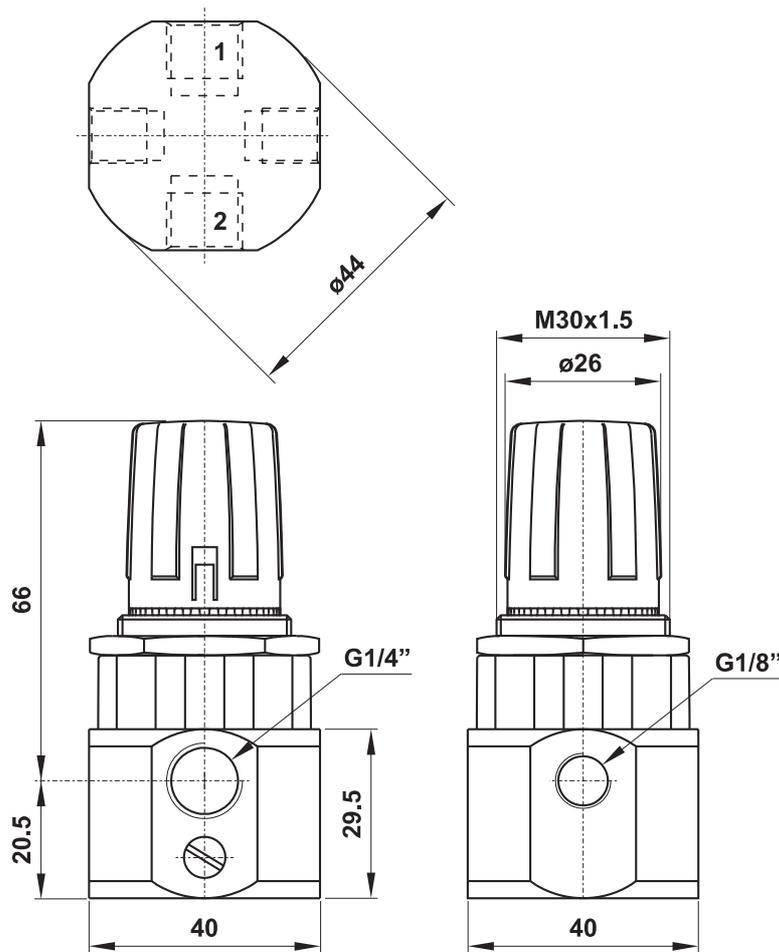
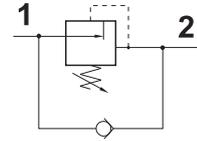
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		16.070.4	16.071.4
Attacchi <i>Ports</i>		G1/4"	G1/4"
Temperatura di esercizio <i>Temperature range</i>		max +50°C	max +50°C
Pressione di alimentazione <i>Inlet pressure range</i>	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa	0.2 bar; 0.02 MPa 1 bar; 0.1 MPa
Differenza minima di pressione ( $\Delta p$ ) <i>Minimum pressure difference (<math>\Delta p</math>)</i>	$p_1 - p_2$	0.2 bar; 0.02 MPa	0.1 bar; 0.01 MPa
Isteresi <i>Hysteresis</i>	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6	1.6 0.6
Portata raccomandata <i>Recommended flow rate</i>	$p_2 = 6.3 \text{ bar a } 25 \text{ m/s}$ $p_2 = 6.3 \text{ bar at } 25 \text{ m/s}$	$Q_n$	550 NI/min
Portata 2 $\Rightarrow$ 1 <i>Flow rate 2 <math>\Rightarrow</math> 1</i>	$p = 6 \text{ bar; } \Delta p = 1 \text{ bar}$		180 NI/min

**schema applicativo**  
*application sketch*



Ideale per l'applicazione tra cilindro e valvola di comando  
*Ideal for use between cylinder and valve*

Il manometro deve essere acquistato separatamente.  
 The manometer is bought separately.



### Materiali

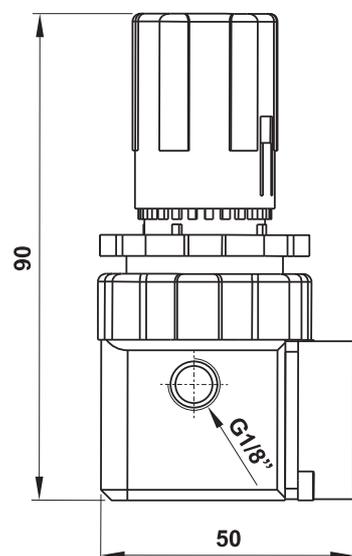
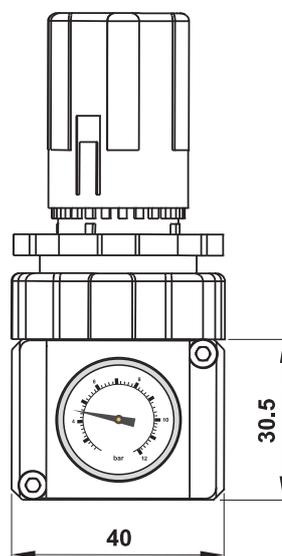
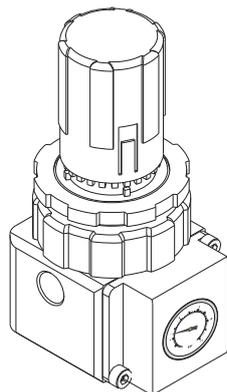
Corpo: alluminio 11S anodizzato naturale  
Molle: INOX  
Guarnizioni: NBR  
Parti interne: ottone, INOX e polimeri

### Materials

Body: aluminium 11S (natural anodize treatment)  
Springs: stainless steel  
Seals: NBR  
Internal parts: brass, stainless steel and polymer

# Mini-regolatore di pressione con manometro

- Regolatore a pistone con valvola di scarico sovrappressione (relieving)  
*Piston-type pressure regulator with relieving*
- Corpo in alluminio 11S  
*Body in aluminium 11S*
- Manometro incorporato  
*Manometer already present in the regulator body*
- Installazione in linea o a pannello  
*In-line or panel mounting*



## Materiali

Corpo: alluminio 11S anodizzato naturale

Molle: INOX

Guarnizioni: NBR

Parti interne: ottone, INOX e polimeri

## Materials

Body: aluminium 11S (natural anodize treatment)

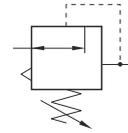
Springs: stainless steel

Seals: NBR

Internal parts: brass, stainless steel and polymer

CODICE DI ORDINAZIONE ORDER CODE		16.082.4
Attacchi Ports		G1/8"
Temperatura di esercizio Temperature range		max +50°C
Peso Weight		190 g
Pressione di alimentazione Inlet pressure range	$p_{1 \text{ min}}$ $p_{1 \text{ max}}$	0 bar; 0 MPa 10 bar; 1 MPa
Pressione di utilizzo Outlet pressure range	$p_{2 \text{ min}}$ $p_{2 \text{ max}}$	0.5 bar; 0.05 MPa 8 bar; 0.8 MPa
Differenza minima di pressione ( $\Delta p$ ) Minimum pressure difference ( $\Delta p$ )	$p_1 - p_2$	0.2 bar; 0.02 MPa
Isteresi Hysteresis	$p_1 = 10 \text{ bar} / p_2 = 0 \text{ bar}$ $p_1 = 10 \text{ bar} / p_2 = 8 \text{ bar}$	1.6 0.6
Portata raccomandata Recommended flow rate	$p_2 = 6 \text{ bar}$ a 25 m/s $p_2 = 6 \text{ bar}$ at 25 m/s	$Q_n$ 300 NI/min
Portata massima Maximum flow rate	$p_1 = 10 \text{ bar}; p_2 = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	$Q_{\text{max}}$ 550 NI/min

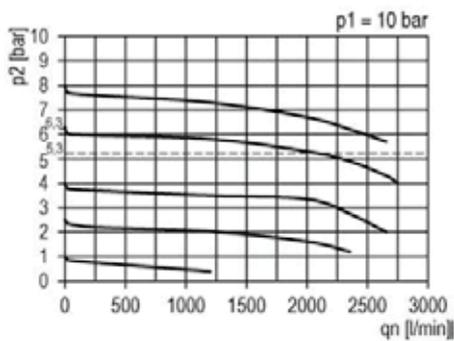
- Regolatore a membrana con valvola di scarico sovrappressione (relieving)  
*Diaphragm-type pressure regulator with relieving*
- Autocompensazione durante la regolazione  
*Self-compensated regulation*
- Installazione in linea o a pannello; staffa di fissaggio a richiesta  
*In-line or panel mounting; bracket on request*



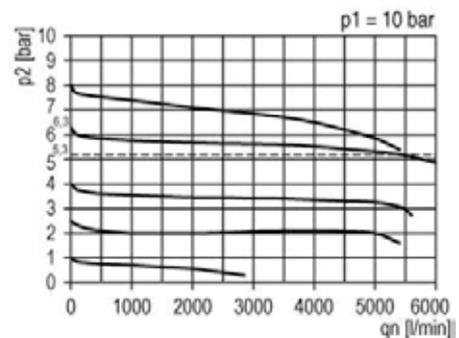
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		REG 2K-08	REG 3K-08	REG 4K-08
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.3 kg	0.3 kg	0.5 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$P_{1 \min}$ $P_{1 \max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$P_{2 \min}$ $P_{2 \max}$	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 8 MPa
Portata massima <i>Maximum flow rate</i>	$Q_{\max}$	2200 NI/min	2200 NI/min	5100 NI/min
$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$				

Caratteristiche di portata  
*Flow characteristics*

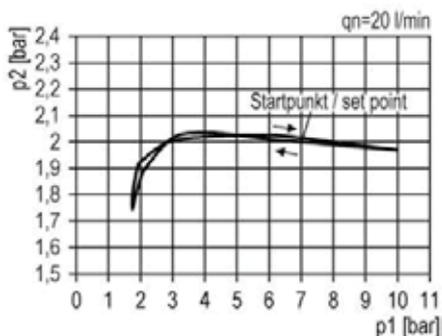
G1/4"-G3/8"



G1/2"

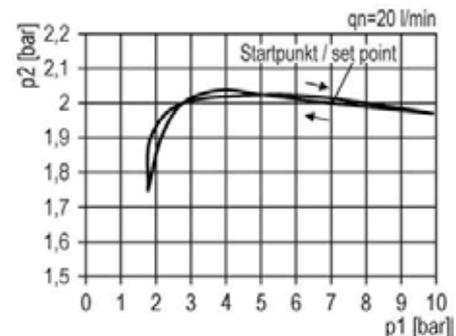


G1/4"-G3/8"



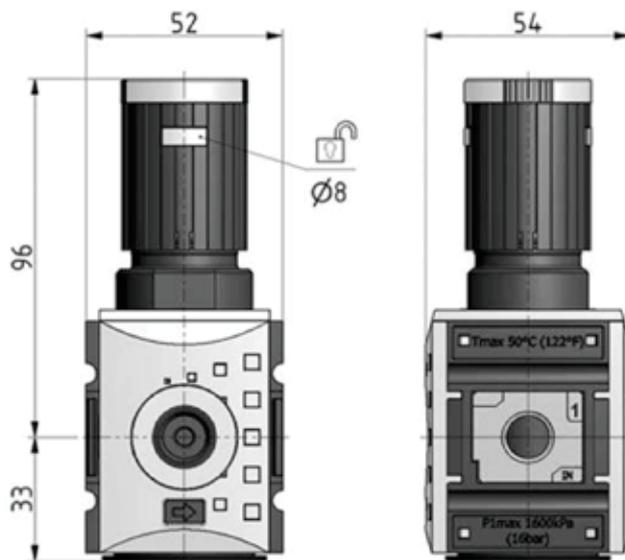
Isteresi  
*Hysteresis*

G1/2"

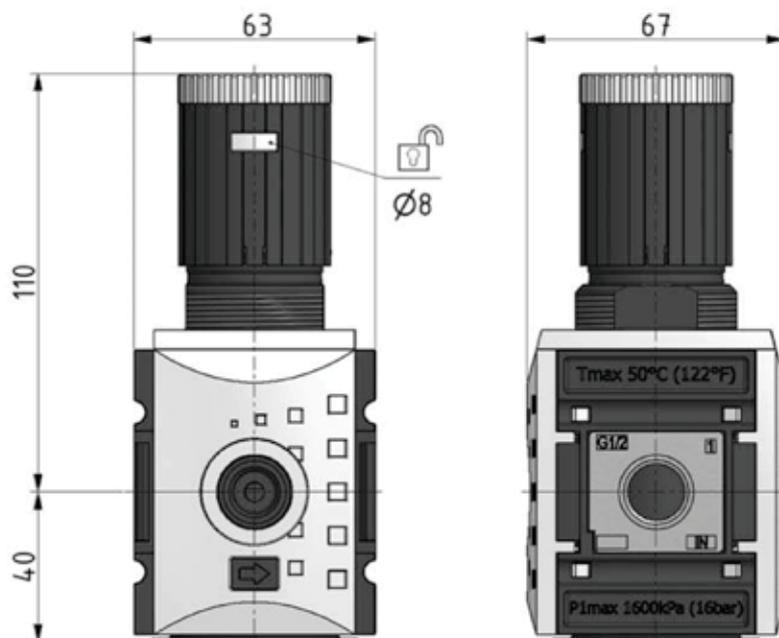


REG 2K-08

REG 3K-08



REG 4K-08



**Materiali**

Corpo: tecnopolimero  
 Guarnizioni: NBR  
 Parti interne: ottone e INOX

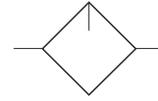
**Materials**

Body: technopolymer  
 Seals: NBR  
 Internal parts: brass and stainless steel

La staffa di fissaggio deve essere acquistata separatamente.  
 Mounting bracket is bought separately.

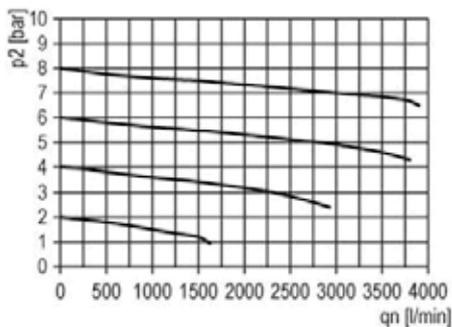
Filetto per manometro: G1/4".  
 Thread for manometer: G1/4".

- Lubrificatore venturi con compensazione automatica della portata  
*Oil mist lubricator with flow compensation*
- Rifornimento olio manuale anche in presenza di pressione  
*Manual oil refilling, possible also in presence of pressure*
- Installazione verticale; staffa di fissaggio a richiesta  
*Vertical installation; bracket on request*
- Protezione della tazza di serie  
*Bowl protection already mounted*
- Capacità tazza: 40 cm<sup>3</sup> (G1/4"-G3/8"); 80 cm<sup>3</sup> (G1/2")  
*Bowl capacity: 40 cm<sup>3</sup> (G1/4"-G3/8"); 80 cm<sup>3</sup> (G1/2")*



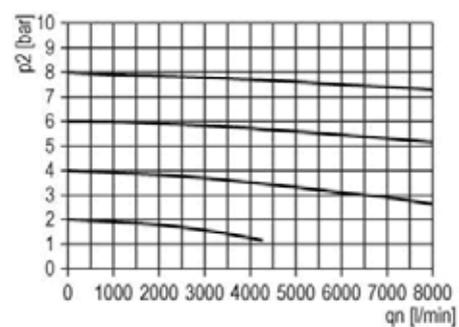
CODICE DI ORDINAZIONE <i>ORDER CODE</i>			LUB 2K-00	LUB 3K-00	LUB 4K-00
Attacchi <i>Ports</i>			G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>			0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>			0.28 kg	0.28 kg	0.42 kg
Pressione di esercizio <i>Working pressure range</i>		$P_{min}$ $P_{max}$	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$	$Q_{max}$	2800 NI/min	2800 NI/min	8000 NI/min

G1/4"-G3/8"

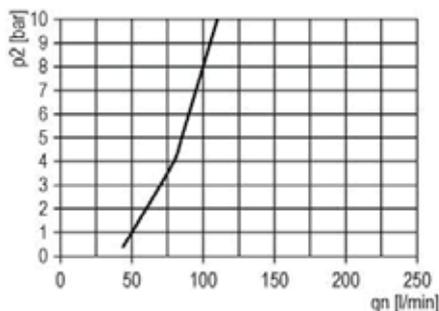


Caratteristiche di portata  
*Flow characteristics*

G1/2"

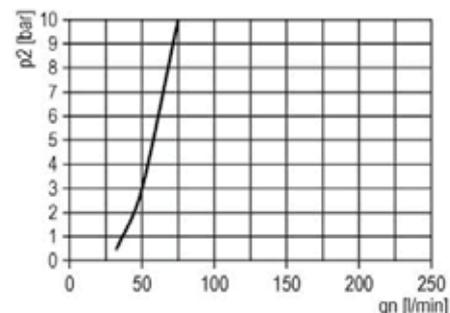


G1/4"-G3/8"



Rapporto olio/aria  
*Oil/air ratio*

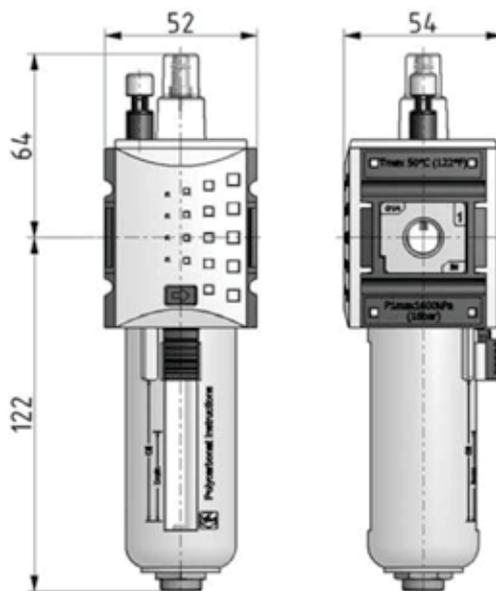
G1/2"



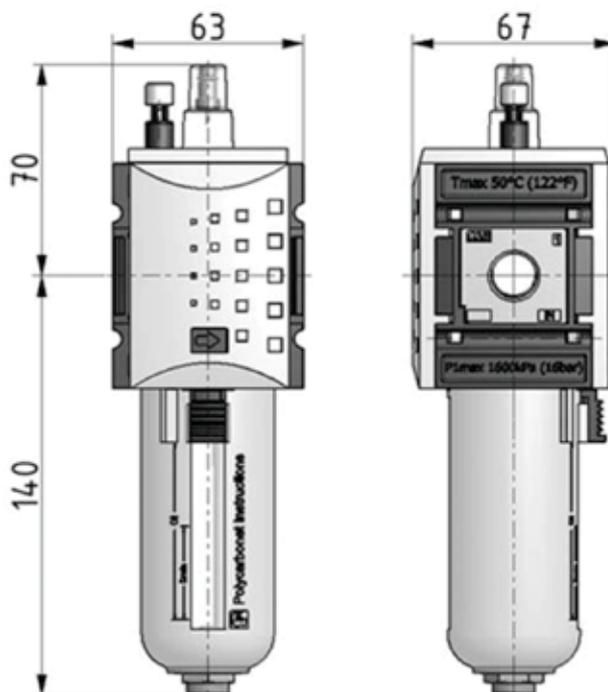
## Lubrificatore G1/4" - G3/8" - G1/2"

LUB 2K-00

LUB 3K-00



LUB 4K-00



### Materiali

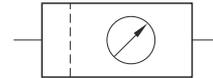
Corpo: tecnopolimero  
 Guarnizioni: NBR  
 Parti interne: ottone e INOX  
 Tazza interna: policarbonato  
 Protezione tazza: poliammide

### Materials

Body: technopolymer  
 Seals: NBR  
 Internal parts: brass and stainless steel  
 Internal bowl: polycarbonate  
 Bowl protection: polyamide

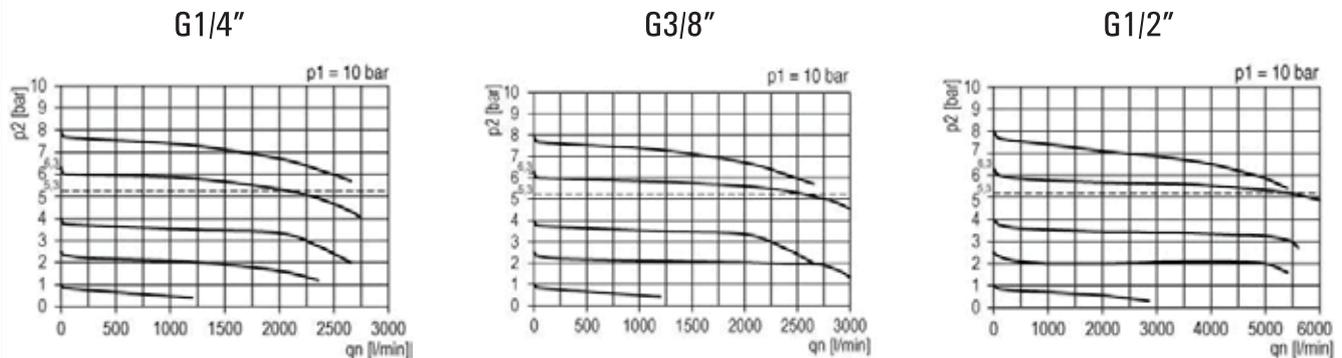
La staffa di fissaggio deve essere acquistata separatamente.  
 Mounting bracket is bought separately.

- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5  $\mu\text{m}$   
*Diaphragm-type pressure regulator with relieving; filtro 5  $\mu\text{m}$*
- Protezione della tazza di serie  
*Bowl protection already mounted*
- Installazione in linea o a pannello; staffa di fissaggio a richiesta  
*In-line or panel mounting; bracket on request*

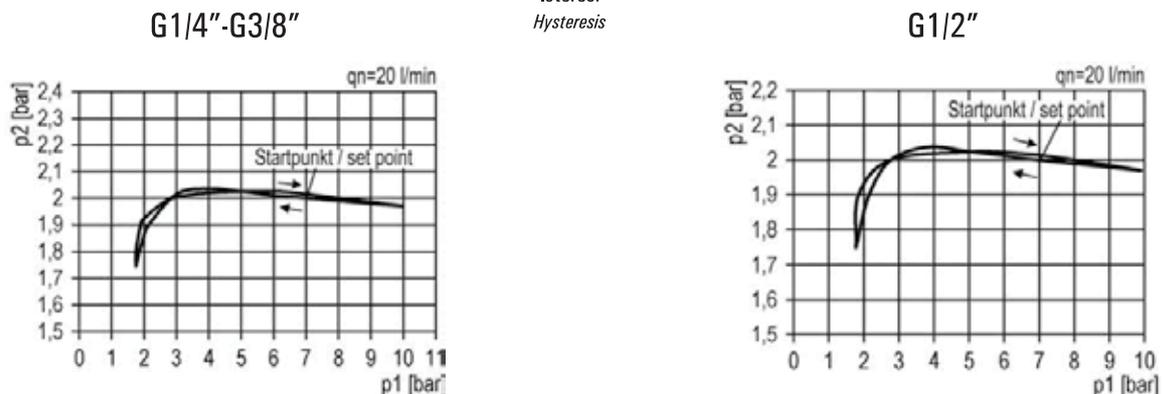


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR 2K-08-05-S	FR 3K-08-05-S	FR 4K-08-05-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.37 kg	0.37 kg	0.56 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$P_{1 \text{ min}}$ $P_{1 \text{ max}}$	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$P_{2 \text{ min}}$ $P_{2 \text{ max}}$	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 0.8 MPa
Portata massima <i>Maximum flow rate</i>	$q_n = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ $Q_{\text{max}}$	2200 NI/min	2600 NI/min	5100 NI/min

Caratteristiche di portata  
*Flow characteristics*

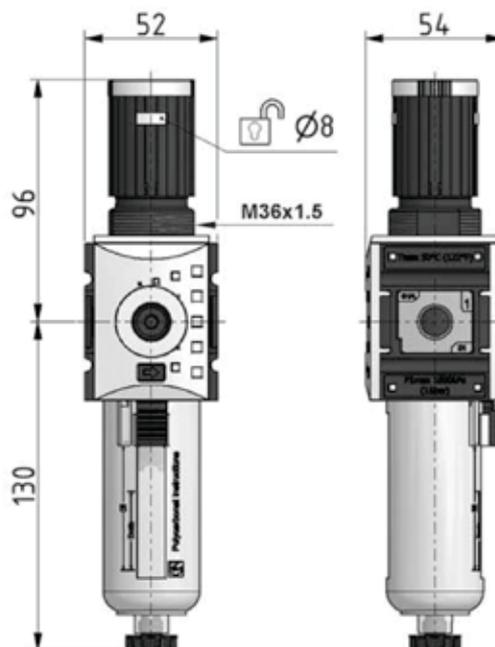


Isteresi  
*Hysteresis*

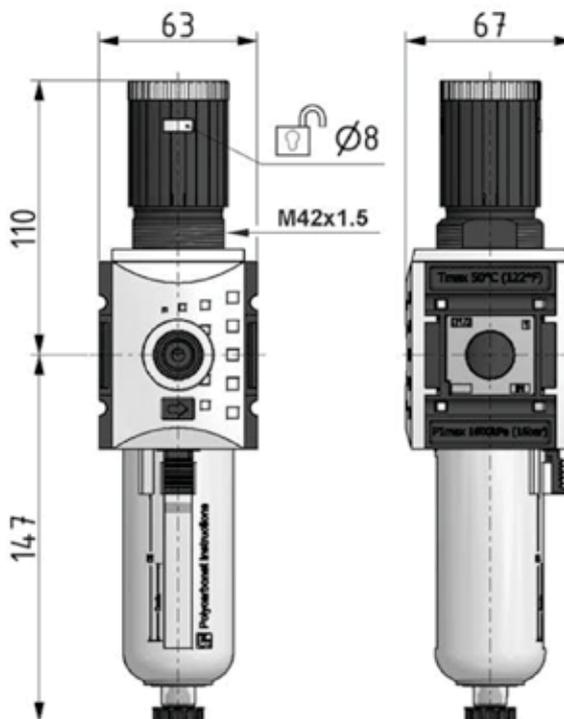


FR 2K-08-05-S

FR 3K-08-05-S



FR 4K-08-05-S



**Materiali**

Corpo: tecnopolimero  
 Guarnizioni: NBR  
 Parti interne: ottone e INOX  
 Tazza interna: policarbonato  
 Protezione tazza: poliammide

**Materials**

Body: technopolymer  
 Seals: NBR  
 Internal parts: brass and stainless steel  
 Internal bowl: polycarbonate  
 Bowl protection: polyamide

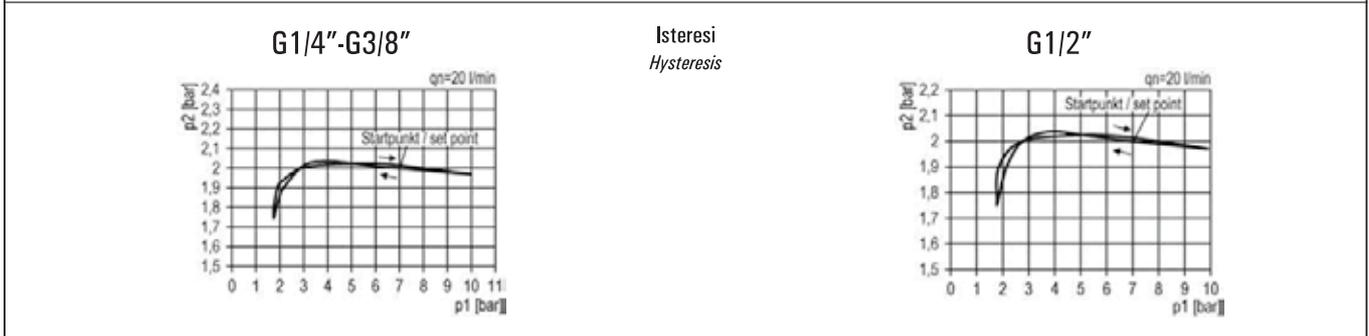
La staffa e la ghiera di fissaggio devono essere acquistate separatamente.  
 Mounting bracket and ring are bought separately.

Filetto per manometro: G1/4".  
 Thread for manometer: G1/4".

- Regolatore a membrana con valvola di scarico sovrappressione (relieving); filtro 5  $\mu\text{m}$   
*Diaphragm-type pressure regulator with relieving; filtro 5  $\mu\text{m}$*
- Capacità tazza: 40 cm<sup>3</sup> (G1/4"-G3/8"); 80 cm<sup>3</sup> (G1/2"); protezione della tazza di serie  
*Bowl capacity: 40 cm<sup>3</sup> (G1/4"-G3/8"); 80 cm<sup>3</sup> (G1/2"); bowl protection already mounted*
- Installazione in linea o a pannello; staffa di fissaggio a richiesta  
*In-line or panel mounting; bracket on request*

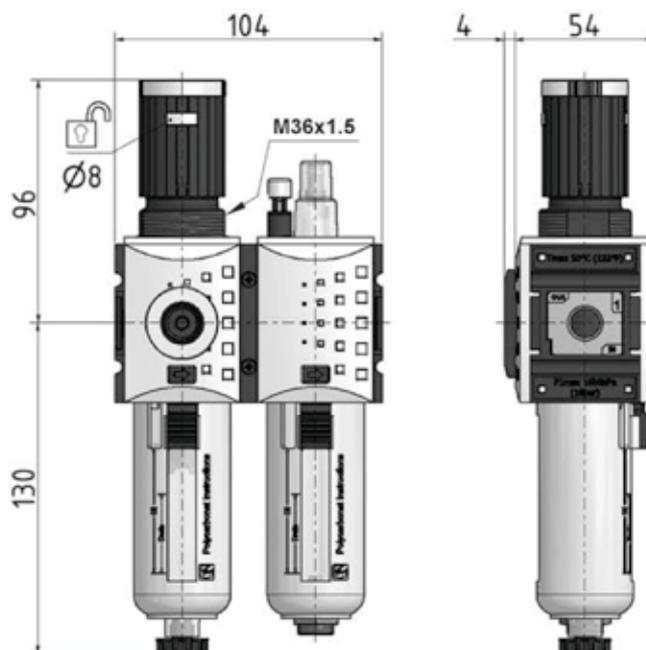


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		FR+L 2K-08-05-S	FR+L 3K-08-05-S	FR+L 4K-08-05-S
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.68 kg	0.68 kg	1.06 kg
Pressione di alimentazione <i>Inlet pressure range</i>	$P_{1 \text{ min}}$ $P_{1 \text{ max}}$	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa	1.5 bar; 0.15 MPa 16 bar; 1.6 MPa
Pressione di utilizzo <i>Outlet pressure range</i>	$P_{2 \text{ min}}$ $P_{2 \text{ max}}$	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 0.8 MPa	0 bar; 0 MPa 8 bar; 8 MPa
Portata massima <i>Maximum flow rate</i>	$p = 6.3 \text{ bar}; \Delta p = 1 \text{ bar}$ $Q_{\text{max}}$	1800 NI/min	1800 NI/min	3500 NI/min

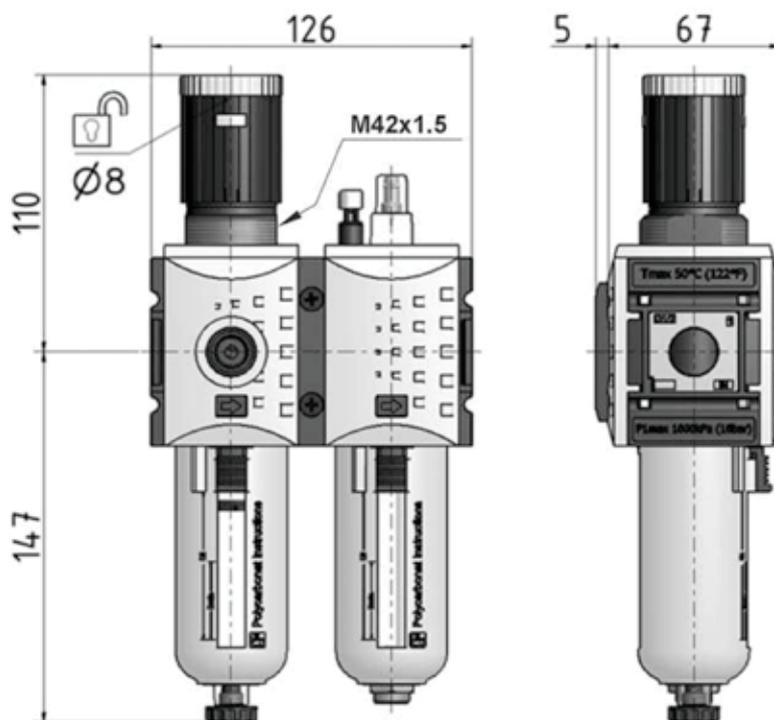


FR+L 2K-08-05-S

FR+L 3K-08-05-S



FR+L 4K-08-05-S



**Materiali**

Corpo: tecnopolimero  
 Guarnizioni: NBR  
 Parti interne: ottone e INOX  
 Tazza interna: policarbonato  
 Protezione tazza: poliammide

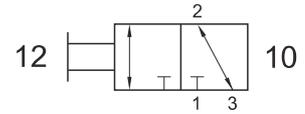
**Materials**

Body: technopolymer  
 Seals: NBR  
 Internal parts: brass and stainless steel  
 Internal bowl: polycarbonate  
 Bowl protection: polyamide

La staffa e la ghiera di fissaggio devono essere acquistate separatamente.  
 Mounting bracket and ring are bought separately.

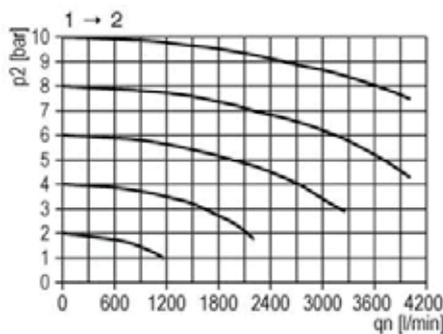
Filetto per manometro: G1/4".  
 Thread for manometer: G1/4".

- Elemento modulare ad alte prestazioni  
*High performance modular element*
- Elevata portata in scarico  
*High exhaust flow rate*
- Possibilità di chiusura a lucchetto  
*It can be secured with a padlock*
- Installazione in qualsiasi posizione  
*Installation in any position*



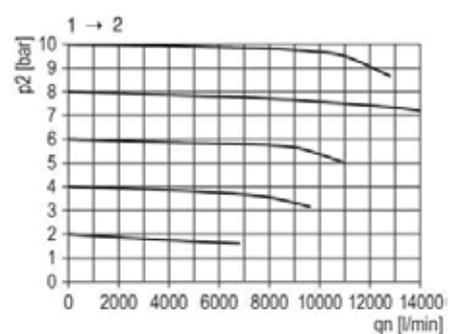
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SR-M2K	SR-M3K	SR-M4K
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.27 kg	0.27 kg	0.53 kg
Pressione di esercizio <i>Working pressure range</i>	$P_{min}$ $P_{max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata massima in entrata <i>Inlet maximum flow rate</i>	$Q_{max}$	1900 NI/min	1900 NI/min	11000 NI/min
Portata massima in scarico <i>Exhaust maximum flow rate</i>	$Q_{max}$	400 NI/min	400 NI/min	3000 NI/min

G1/4"-G3/8"

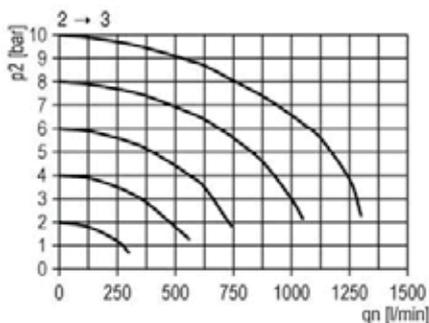


Portata in entrata  
*Inlet flow rate*

G1/2"

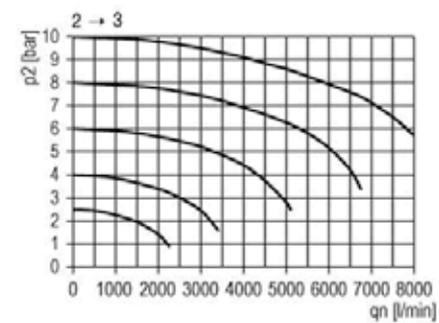


G1/4"-G3/8"



Portata in scarico  
*Exhaust flow rate*

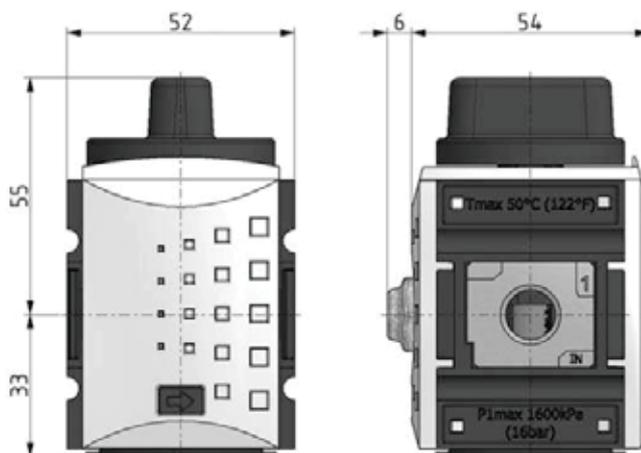
G1/2"



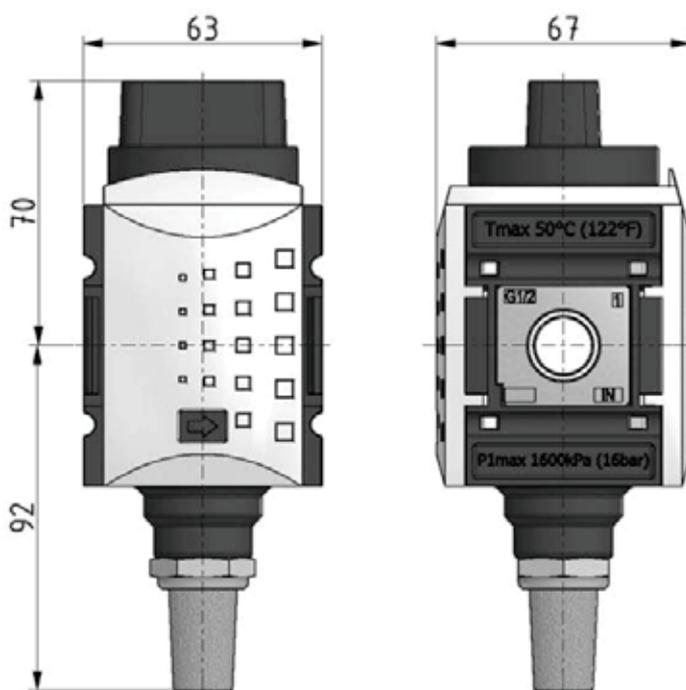
## Valvole sezionamento circuito 3/2 G1/4" - G3/8" - G1/2"

SR-M2K

SR-M3K



SR-M4K



### Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

### Materials

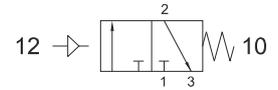
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

La staffa di fissaggio deve essere acquistata separatamente.  
Mounting bracket is bought separately.

- Valvola 3/2 a comando pneumatico  
*Pneumatically actuated 3/2 valve*
- Elevata portata in scarico  
*High exhaust flow rate*

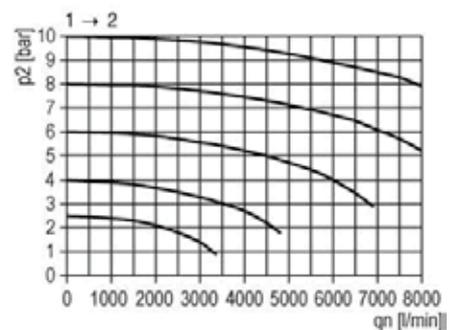
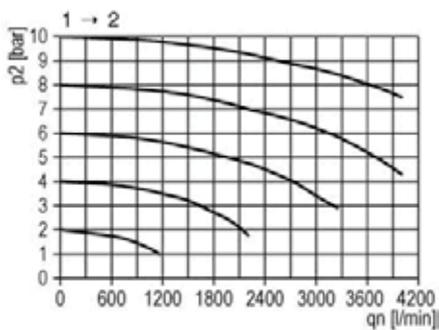


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SCR 2K-P	SCR 3K-P	SCR 4K-P
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.26 kg	0.26 kg	0.56 kg
Pressione di esercizio <i>Working pressure range</i>	$P_{min}$ $P_{max}$	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa	0 bar; 0 MPa 16 bar; 1.6 MPa
Portata massima in entrata <i>Inlet maximum flow rate</i>	$Q_{max}$	2000 NI/min	2000 NI/min	4300 NI/min
Portata massima in scarico <i>Exhaust maximum flow rate</i>	$Q_{max}$	400 NI/min	400 NI/min	3000 NI/min

G1/4"-G3/8"

Portata in entrata  
*Inlet flow rate*

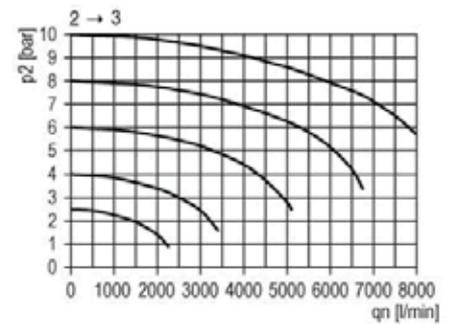
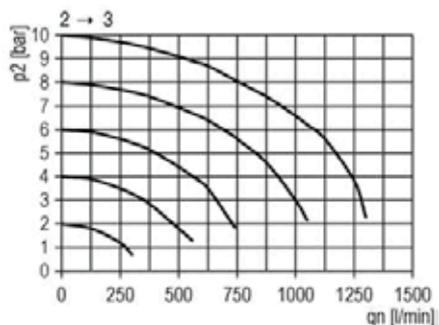
G1/2"



G1/4"-G3/8"

Portata in scarico  
*Exhaust flow rate*

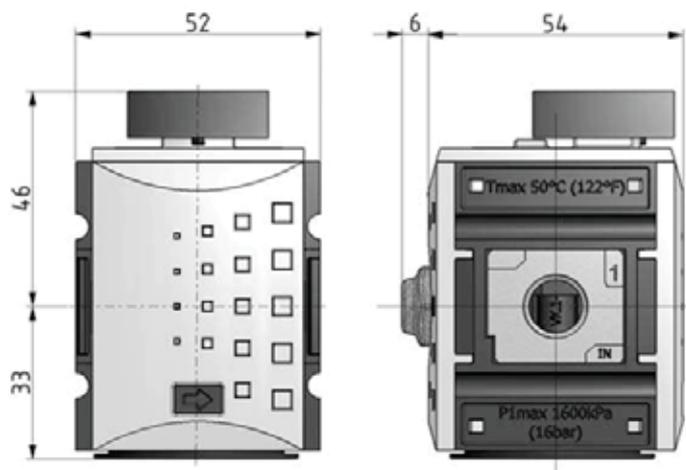
G1/2"



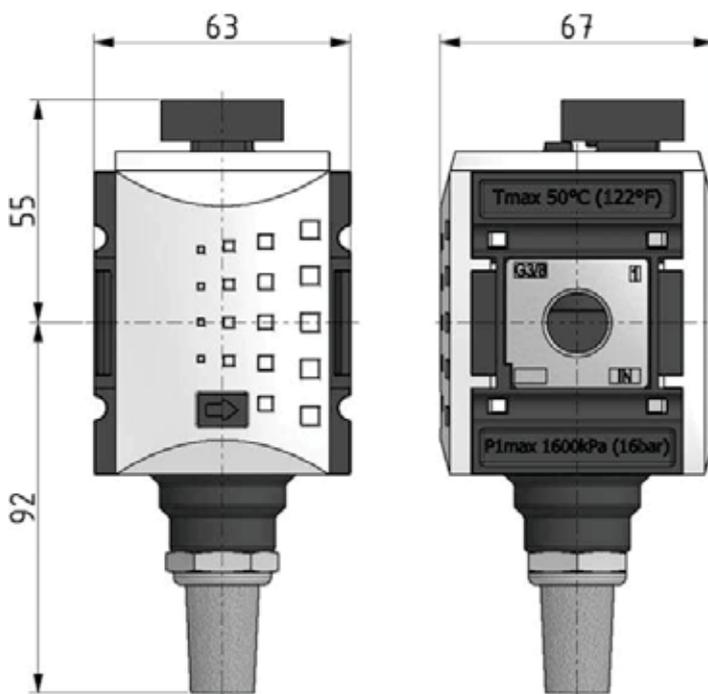
## Valvola di scarico rapido G1/4" - G3/8" - G1/2"

SCR 2K-P

SCR 3K-P



SCR 4K-P



### Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

### Materials

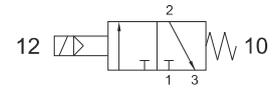
Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

La staffa di fissaggio deve essere acquistata separatamente.  
Mounting bracket is bought separately.

- Valvola 3/2 a comando elettrico  
*Solenoid actuated 3/2 valve*
- Elevata portata in scarico  
*High exhaust flow rate*

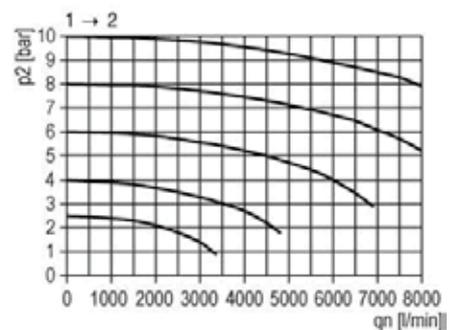
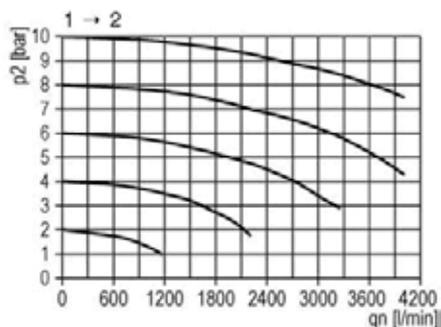


CODICE DI ORDINAZIONE <i>ORDER CODE</i>		SCR 2K-E	SCR 3K-E	SCR 4K-E
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.38 kg	0.38 kg	0.68 kg
Pressione di esercizio <i>Working pressure range</i>	$P_{min}$ $P_{max}$	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa	0 bar; 0 MPa 10 bar; 1 MPa
Portata massima in entrata <i>Inlet maximum flow rate</i>	$Q_{max}$	2000 NI/min	2000 NI/min	4300 NI/min
Portata massima in scarico <i>Exhaust maximum flow rate</i>	$Q_{max}$	400 NI/min	400 NI/min	3000 NI/min

G1/4"-G3/8"

Portata in entrata  
*Inlet flow rate*

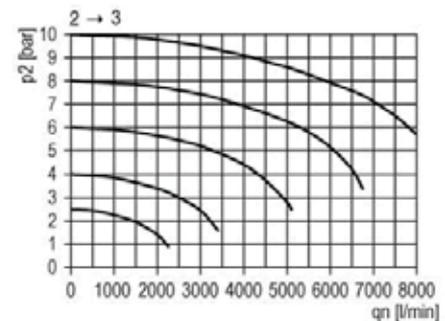
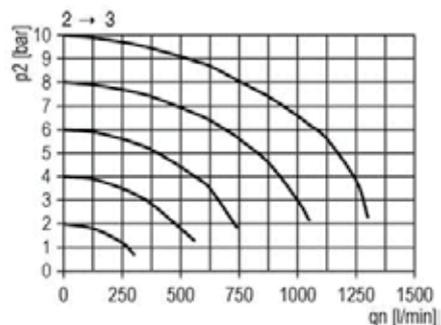
G1/2"



G1/4"-G3/8"

Portata in scarico  
*Exhaust flow rate*

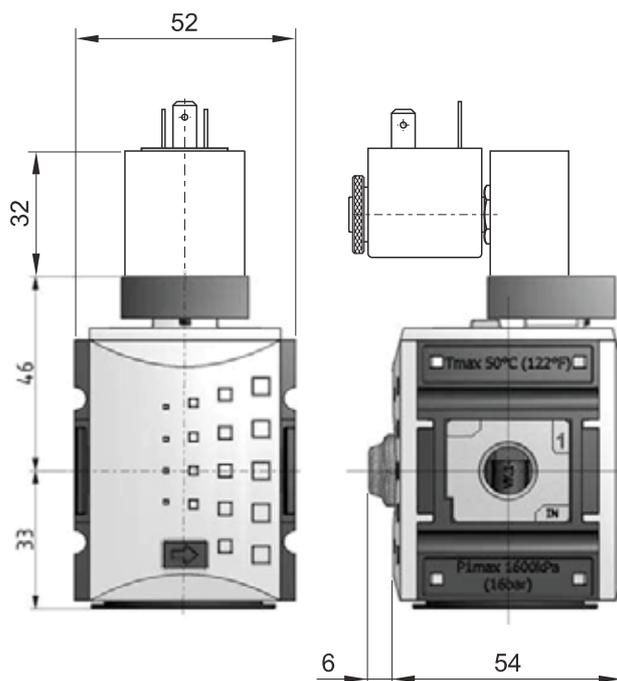
G1/2"



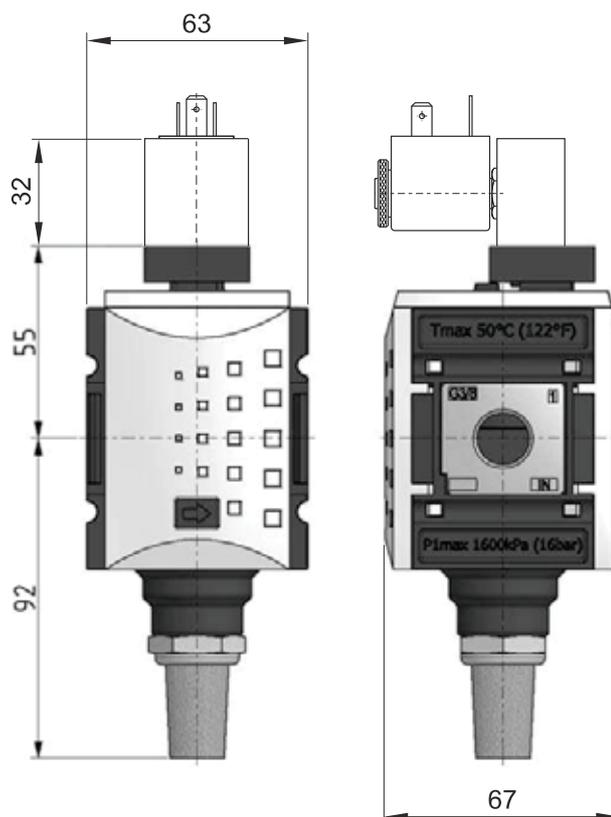
## Valvola di scarico rapido G1/4" - G3/8" - G1/2"

SCR 2K-E

SCR 3K-E



SCR 4K-E



### Materiali

Corpo: tecnopolimero

Guarnizioni: NBR

Parti interne: ottone e INOX

### Materials

Body: technopolymer

Seals: NBR

Internal parts: brass and stainless steel

La staffa di fissaggio deve essere acquistata separatamente.

Mounting bracket is bought separately.

Il prodotto è venduto senza bobina, da acquistarsi separatamente (vedi pag. 372).

The product is sold without coil, which is bought separately (refer to page 372).

## Modalità di funzionamento

La valvola fornisce a un circuito pneumatico aria a pressione progressivamente crescente fino a raggiungere la metà della pressione di rete nel tempo impostato con la vite di regolazione integrata. Durante questa fase non devono essere attivi gli elementi del circuito che consumano aria. Raggiunta la soglia di commutazione, l'avviatore progressivo passa automaticamente a fornire la pressione di rete.

L'avviatore progressivo impedisce eventuali movimenti improvvisi dei dispositivi pneumatici montati nel circuito, che si potrebbero avere se venisse fornita immediatamente la pressione di rete.

## Valve operation

The valve applies to a pneumatic circuit a progressively increasing pressure over a period of time set by the integrated screw. During this phase no air consumption is allowed in the circuit. After having reached the half of the system pressure, the slow-start valve begins to automatically feed the circuit with the system pressure.

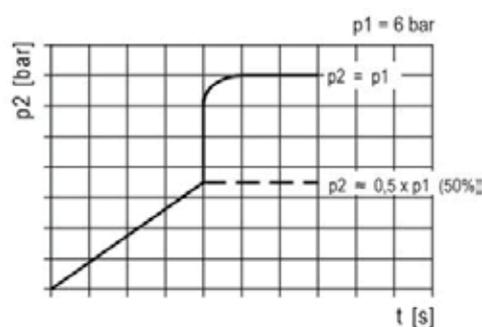
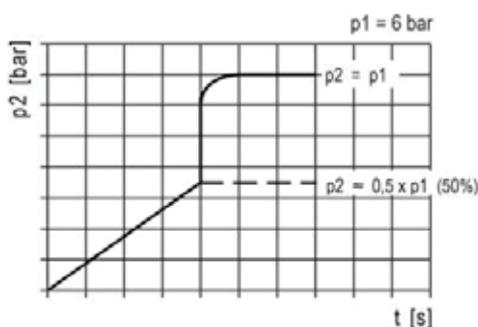
The slow-start valve prevents from unexpected motions of the pneumatic devices in the circuit, which could happen by applying directly the system pressure.

CODICE DI ORDINAZIONE ORDER CODE		AVP 2K-P	AVP 3K-P	AVP 4K-P
Attacchi Ports		G1/4"	G3/8"	G1/2"
Temperatura di esercizio Temperature range		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso Weight		0.24 kg	0.24 kg	0.53 kg
Pressione di esercizio Working pressure range	$P_{min}$ $P_{max}$	2.5 bar; 0.25 MPa 16 bar; 1.6 MPa	2.5 bar; 0.25 MPa 16 bar; 1.6 MPa	2.5 bar; 0.25 MPa 16 bar; 1.6 MPa
Portata massima Maximum flow rate	$Q_{max}$	1900 NI/min	1900 NI/min	400 NI/min

G1/4"-G3/8"

Rapporto tempo/pressione  
Time/pressure ratio

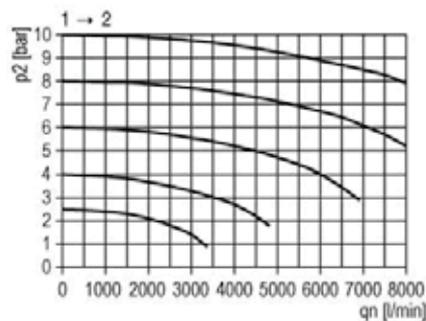
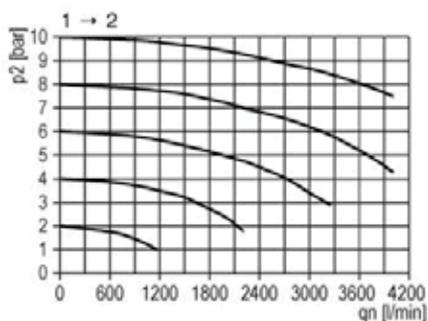
G1/2"



G1/4"-G3/8"

Portata in scarico  
Exhaust flow rate

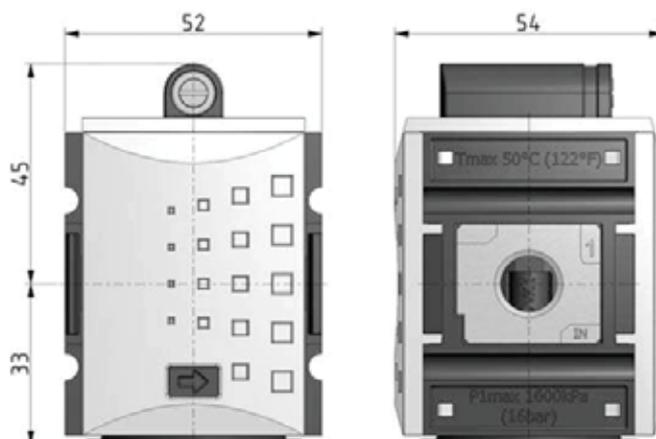
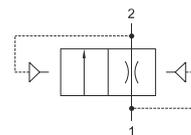
G1/2"



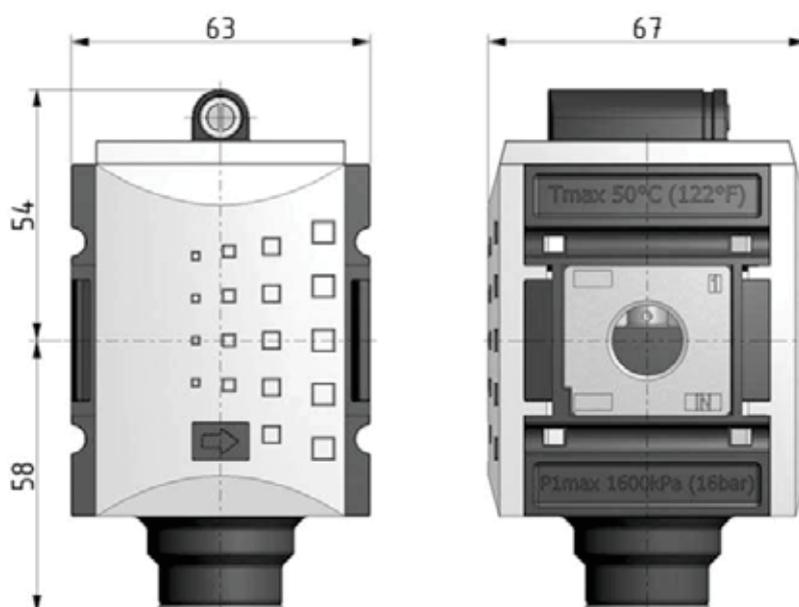
## Avviatore progressivo G1/4" - G3/8" - G1/2"

AVP 2K-P

AVP 3K-P



AVP 4K-P



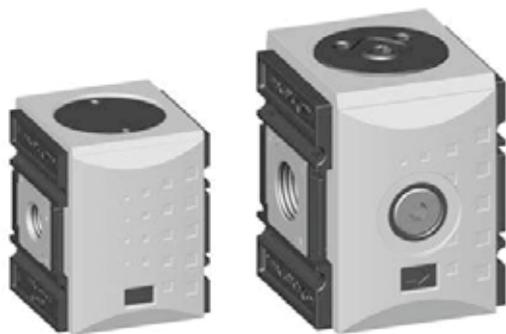
### Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX

### Materials

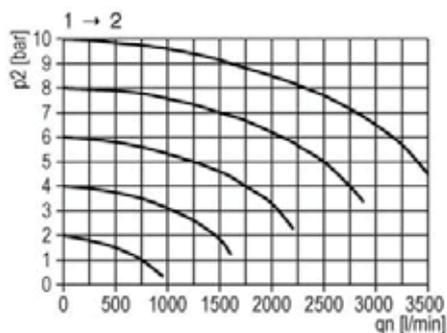
Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel

La staffa di fissaggio deve essere acquistata separatamente.  
Mounting bracket is bought separately.



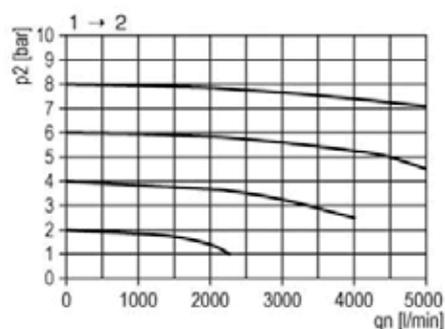
CODICE DI ORDINAZIONE <i>ORDER CODE</i>		VNR 2K	VNR 3K	VNR 4K
Attacchi <i>Ports</i>		G1/4"	G3/8"	G1/2"
Temperatura di esercizio <i>Temperature range</i>		0 ... +50°C	0 ... +50°C	0 ... +50°C
Peso <i>Weight</i>		0.24 kg	0.24 kg	0.37 kg
Pressione di esercizio <i>Working pressure range</i>	$P_{min}$ $P_{max}$	0.4 bar; 0.04 MPa 16 bar; 1.6 MPa	0.4 bar; 0.04 MPa 16 bar; 1.6 MPa	0.4 bar; 0.04 MPa 16 bar; 1.6 MPa
Portata massima diretta <i>Direct maximum flow rate</i>	$Q_{max}$	1250 NI/min	1250 NI/min	4500 NI/min
Portata massima laterale <i>Maximum flow rate in side direction</i>	$Q_{max}$	700 NI/min	700 NI/min	1150 NI/min

G1/4"-G3/8"

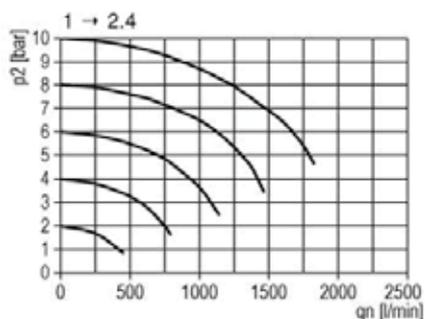


Portata diretta  
*Direct flow rate*

G1/2"

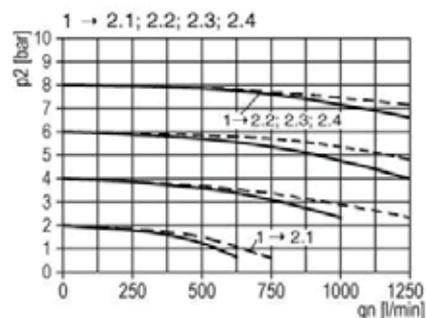


G1/4"-G3/8"



Portata laterale  
*Side flow rate*

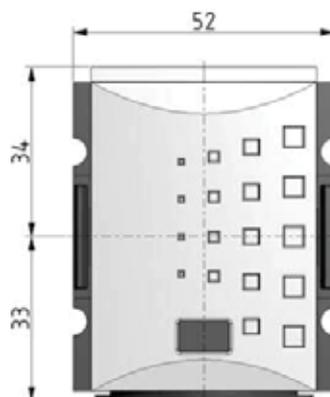
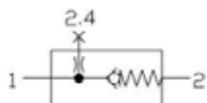
G1/2"



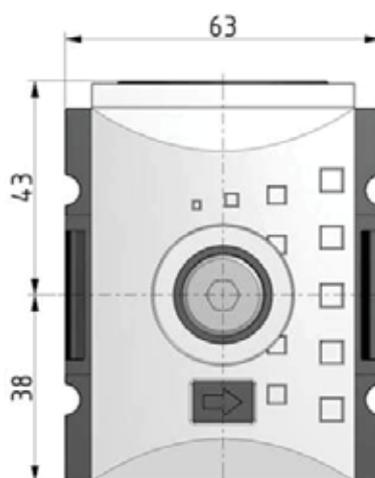
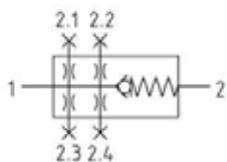
## Valvola di non ritorno G1/4" - G3/8" - G1/2"

VNR 2K

VNR 3K



VNR 4K



### Materiali

Corpo: tecnopolimero  
Guarnizioni: NBR  
Parti interne: ottone e INOX

### Materials

Body: technopolymer  
Seals: NBR  
Internal parts: brass and stainless steel

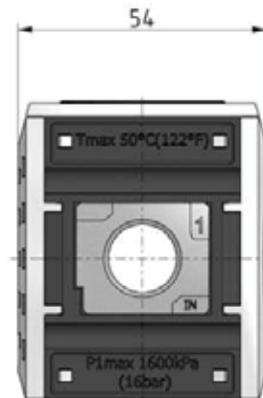
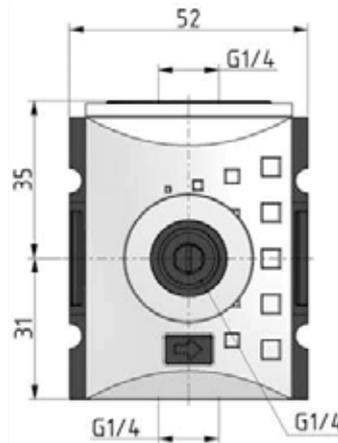
La staffa di fissaggio deve essere acquistata separatamente.  
Mounting bracket is bought separately.

## PRESA D'ARIA *porting block*

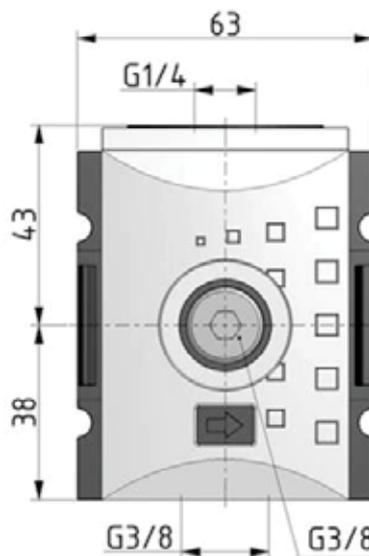
Puo essere utilizzata per prelevare aria non lubrificata e/o non regolata.  
*It can be used to provide unlubricated and/or unregulated air.*

**G1/4"**      **PAI 2K-00**

**G3/8"**      **PAI 3K-00**

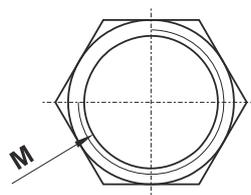


**G1/2"**      **PAI 4K-00**



## GHIERA DI FISSAGGIO *mounting ring*

codice <i>part number</i>	per serie <i>for series</i>	M
16.044.0	MINI G1/4"	M30x1.5
16.030.0	G1/4"-G3/8"	M36x1.5
16.329.0	G1/2"	M42x1.5

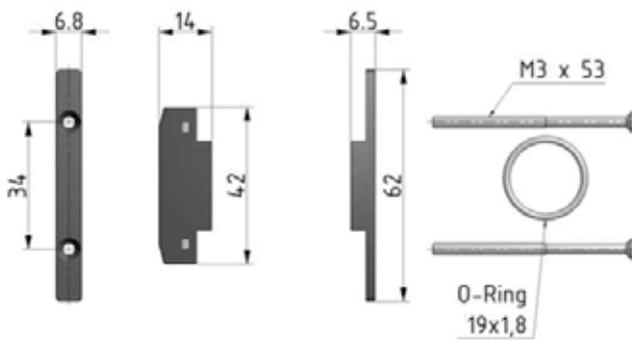


**KIT MONTAGGIO**

*coupling kit*

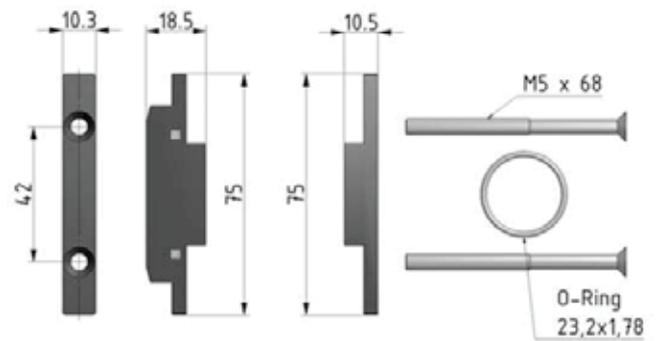
**KIT 2K-00**

G1/4"-G3/8"



**KIT 4K-00**

G1/2"

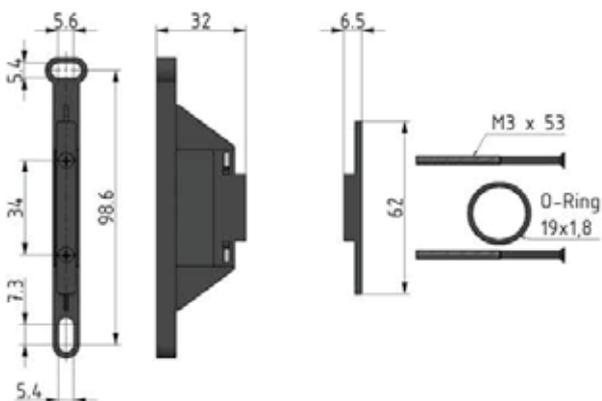


**KIT MONTAGGIO CON STAFFA DI FISSAGGIO**

*coupling kit with mounting bracket*

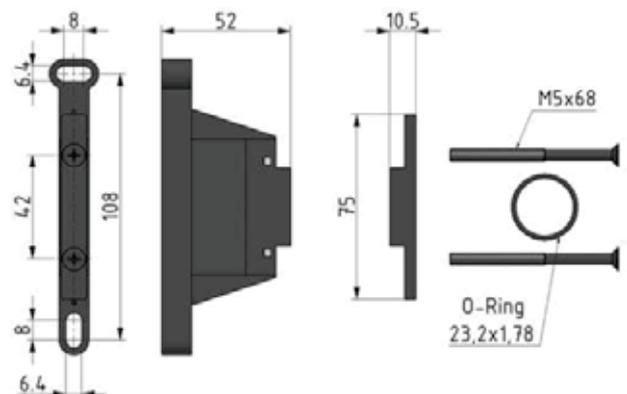
**KIT 2K-01**

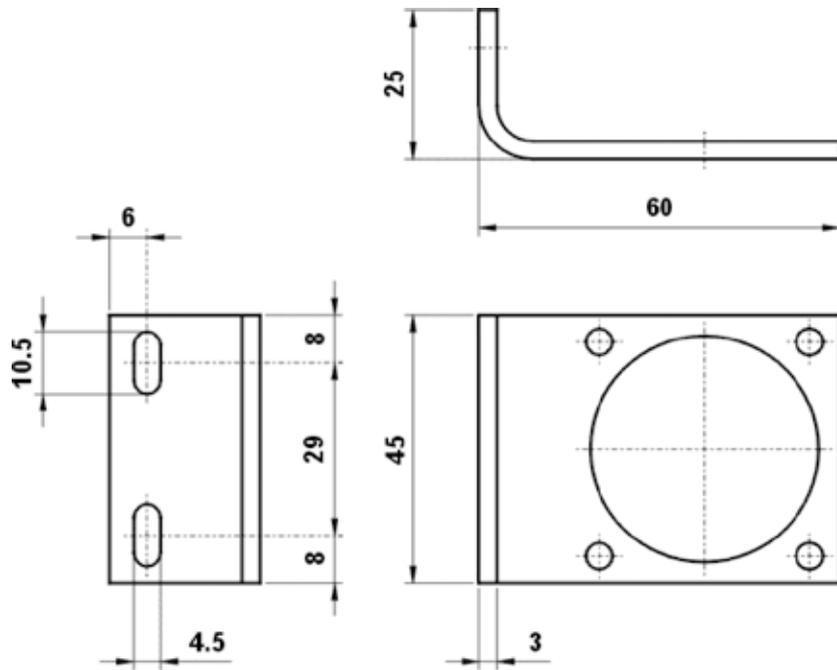
G1/4"-G3/8"

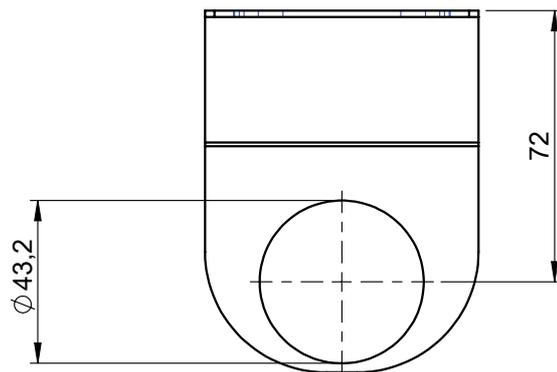
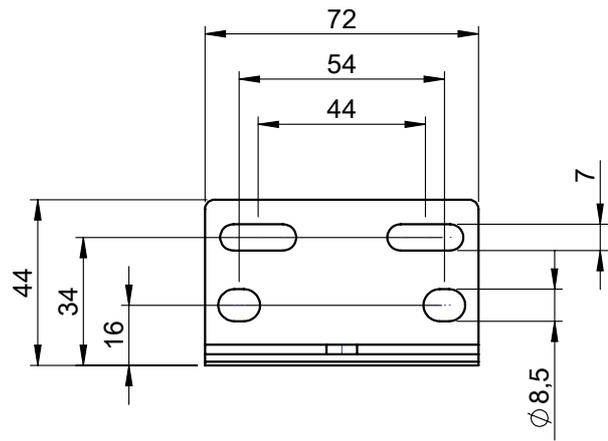
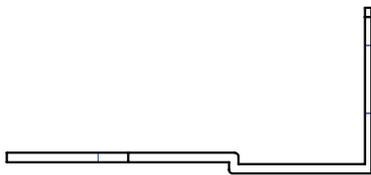


**KIT 4K-01**

G1/2"









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