100% MADE IN ITALY

www.**rpesrl**.com

CATALOGUE

50 years of **experience** high standard of **excellence** in the international market of solenoid **valves**

Made in Italy that makes the difference **since 1972**

www.**rpesrl**.com

L'Azienda

Da oltre 50 anni **RPE** progetta e **produce in Italia** elettrovalvole, solenoidi, riduttori di pressione, contalitri e filtri in ogni loro componente. I prodotti sono realizzati in tecnopolimeri termoplastici che consentono prestazioni elevate e l'utilizzo anche ad alte temperature. Il continuo **sviluppo di nuove tecnologie** e l'attenzione alle certificazioni hanno permesso a **RPE** di diventare negli anni un punto di riferimento internazionale nel mercato del controllo dei fluidi.
Oggi **RPE** è un'azienda improntata all'**industria 4.0** basata sulla continua **implementazione di nuove tecnologie produttive**.
RPE è stata fondata nel **1972** da un'idea dell'attuale Presidente Giuliano Ravazzani e nel corso degli anni si è specializzata sempre di più, fino ad integrare tutte le fasi del ciclo produttivo.
Nel **2023** l'**Azienda ha inaugurato la nuova sede direzionale**, al cui interno 5000 mq sono stati destinati alla produzione. Un traguardo importante questo, che consentirà l'incremento della capacità produttiva grazie alle **40 nuove macchine per lo stampaggio a iniezione**.

The Company

For over 50 years, **RPE** has been developing and **manufacturing** solenoid valves, pressure regulators, flow meters and filters in our facilities **in Italy**.
Our products are made of thermoplastic techno-polymers that provide high performance, outstanding reliability, and resistance to high temperatures. The continuous **development of new technologies** and attention to worldwide certifications have allowed **RPE** to become an international reference in the fluid control industry throughout the years.
Today **RPE** is a **4.0 Industry company** established on the steady **implementation of new technologies**.
RPE was founded in **1972** by our current President Mr. Giuliano Ravazzani, integrating over the years the specialization of all phases of the production cycle. In **2023**, the **company inaugurated their new headquarters**, of which 5,000 square meters alone were allocated to additional production space.
This is an important milestone for **RPE** that will increase production capacity thanks to the **40 new injection moulding machines** recently acquired.

Made in Italy that makes the difference **since 1972**

Punti di forza

I prodotti RPE sono **100% Made in Italy**, progettati e prodotti nei nostri stabilimenti di Carbonate e Mozzate in Provincia di Como.
Il nostro obiettivo è realizzare **prodotti di qualità** e agevolare il lavoro dei nostri clienti **realizzando con flessibilità soluzioni tecniche** per ogni loro esigenza.
La nostra conoscenza e competenza nelle norme specifiche del settore ci consente di utilizzare i materiali più idonei e di **fornire prodotti certificati e sicuri**.

Strenghts

RPE products are **100% Made in Italy**, designed and manufactured in our facilities located in Carbonate and Mozzate near Lake Como.
Our determination is to **manufacture high quality** products and help our customers work easier by **offering flexible and technical solutions** for their every need.
Our knowledge and capability in distinct standards of the sector enables us to use the most suitable materials and to **offer certified and safe products**.

Vision

Creare valore per i nostri clienti, implementando processi e attività in modo **efficiente e responsabile**. Investire costantemente nello sviluppo di tecnologie al fine di realizzare **prodotti all'avanguardia e innovativi**.

Vision

Create the best value for our customers by implementing process and actions **efficiently and responsibly**.
Continuously invest in the development of technologies and provide **state-of-the-art and innovative products**.

Mission

Poniamo un **costante impegno** nella **ricerca e sviluppo** di nuove valvole, progettando soluzioni per le più svariate esigenze di impiego.
RPE si contraddistingue per puntare da sempre sulla **customizzazione** dei propri prodotti, creando referenze ad hoc.
Il nostro Team di tecnici esperti è disponibile per progettare direttamente con il cliente le valvole richieste offrendo un servizio su misura.

Mission

We provide a **constant effort** to the **Research & Development** of new products and the continuous innovation and design of original solutions for a wide variety of requirements.
RPE stands out for always focusing on the **customization** of its products, creating ad hoc references. Our team of experienced technicians is available to design the required valves directly with the customer, offering a tailor-made service.

Certificazioni

RPE reputa fondamentale la gestione, il mantenimento ed il miglioramento degli standard qualitativi per il raggiungimento ed il consolidamento degli obiettivi di mercato ed in generale per un'evoluzione positiva del "sistema" aziendale nel suo complesso.
È volontà dell'azienda perseguire il **miglioramento continuo del Sistema di Gestione della Qualità** in conformità alla norma UNI EN ISO 9001:2015.
Tale sistema gestionale è costituito dalla struttura organizzativa, dai processi, dalle risorse e dalla documentazione occorrente per il conseguimento degli obiettivi di eccellenza enunciati nella Politica e nei programmi di miglioramento aziendali.

Certifications

RPE acknowledges the fundamental administration, maintenance and improvement of quality standards, essential on the creation and consolidation of our industry's objectives and in general for a positive evolution of the company's organization as a whole.
It is the company's ambition to **pursue an endless enhancement of the Quality Management System** in compliance with the UNI EN ISO 9001:2015 standard.
This system consists on the organisational structure, the different process, resources and documentation required to achieve the objectives of excellence set out in the company's policy and improvement plans.

Indice / Index

Serie R
R Series

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

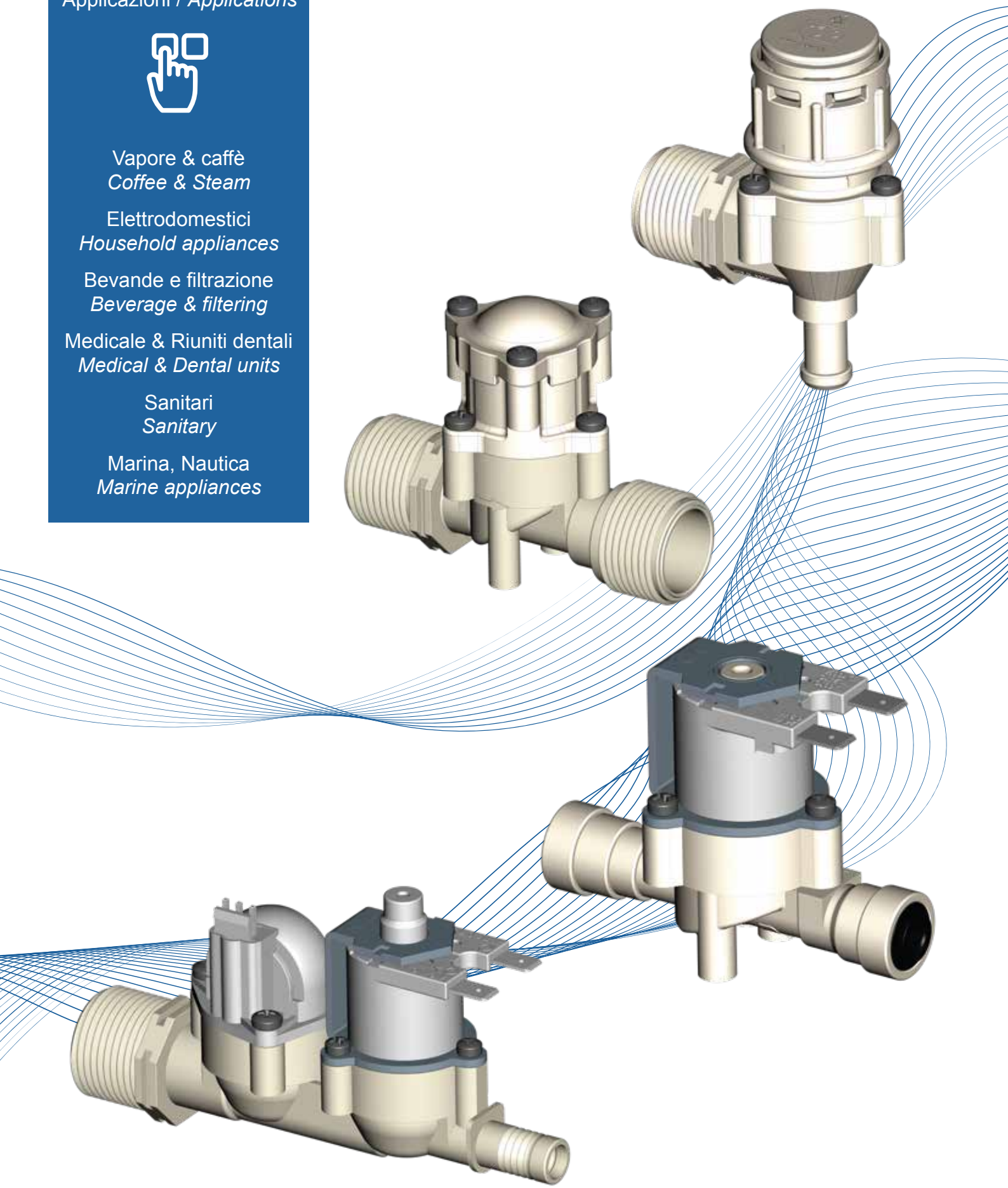
Elettrodomestici
Household appliances

Bevande e filtrazione
Beverage & filtering

Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances



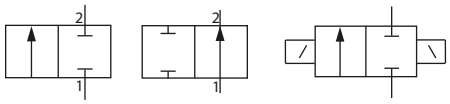
SPECIFICHE TECNICHE

- Elettrovalvole 2/2 vie, servo-comandate
- Pressione di esercizio: 0,2-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100%
  Tm 90°C (3 MIN ON - 5 MIN OFF)
- Membrana in NBR, EPDM e LSR
- Opzioni disponibili: (NC) Normalmente chiusa, (NA) Normalmente Aperta e Bistabile
- Geometria 90° o 180°
- Filetto BSP, GHT, NPT
- Certificazione ENEC o UL per il mercato Nord Americano

TECHNICAL SPECIFICATIONS

- *2/2 solenoid valve, servo-controlled*
- *Working pressure: 0,2-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100%*
  Tm 90°C (3 MIN ON - 5 MIN OFF)
- *NBR, EPDM and LSR diaphragm*
- *Options available: (NC) Normally Closed, Normally Open (NO) and Latching*
- *90° or 180° geometry*
- *BSP, GHT, NPT Thread*
- *ENEC or UL certified for the North American market*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Serie completa e versatile / *Complete and versatile series*
- Ampia gamma di solenoidi e accessori / *Wide range of solenoids and accessories*
- Contalitri, riduttori di pressione e filtri a completamento della gamma / *Flow meters, pressure reducers and filters complete the range*
- Disponibilità della versione ad azionamento diretto / *Direct drive version available*
- Possibilità di assemblare collettori multi ingresso e/o multi uscita
  Possibility of assembling multi-inlet and/or multi-outlet manifolds

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie R - Piloti servo-comandati

R Series - Servo-controlled pilots

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

Elettrodomestici
Household appliances

Bevande e filtrazione
Beverage & filtering

Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances

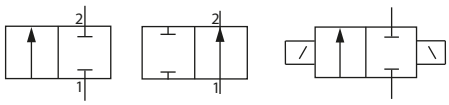
SPECIFICHE TECNICHE

- Operatori 2/2 vie servo-comandate
- Pressione di esercizio: 0,2-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100%
  Tm 90°C (3 MIN ON - 5 MIN OFF)
- Membrana in NBR, EPDM e LSR
- Opzioni disponibili: (NC) Normalmente chiusa, (NA)
  Normalmente aperta e Bistabile
- Certificazione ENEC o UL per il mercato Nord Americano

TECHNICAL SPECIFICATIONS

- *2/2-way servo-controlled operators*
- *Working pressure: 0,2-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100%*
  Tm 90°C (3 MIN ON - 5 MIN OFF)
- *NBR, EPDM and LSR diaphragm*
- *Options available: (NC) Normally closed,*
  (NA) Normally open and Latching
- *ENEC or UL certified for the North American market*

ICONE / *ICONS*

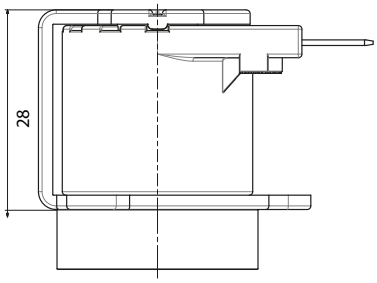


PUNTI DI FORZA / *HIGHLIGHTS*

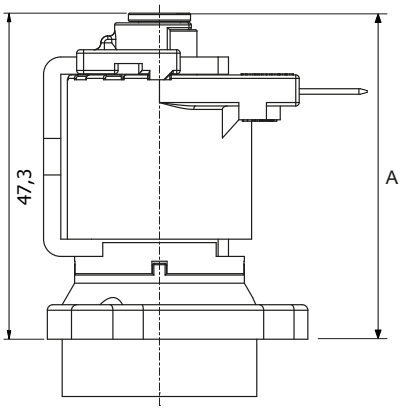
- Ampia gamma di solenoidi / *Wide range of solenoids*
- Compatibilità con tutti i corpi della Serie R / *Compatibility with all R Series bodies*
- Disponibilità di connessioni elettriche differenti (faston, cavi unipolari e bipolari)
  Availability of different electrical connections (faston, unipolar and bipolar wires)
- Solenoidi certificati / *Certified solenoids*

CERTIFICAZIONI / *CERTIFICATION*

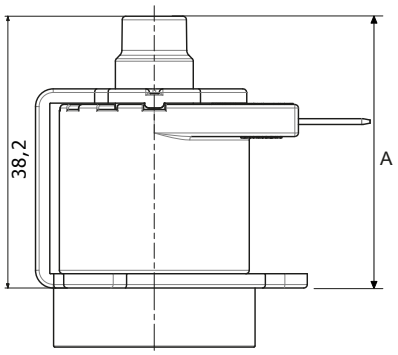
QUOTA A / *A DIMENSION*



NORMALMENTE CHIUSA / *NORMALLY CLOSED*

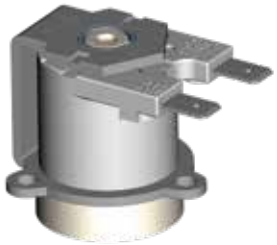


NORMALMENTE APERTA / *NORMALLY OPEN*



BISTABILE / *LATCHING*

NORMALMENTE CHIUSA — *NORMALLY CLOSED*



La posizione di riposo della valvola (elettromagnete non alimentato) è chiusa.
Quando l'elettromagnete viene alimentato, il nucleo mobile si solleva aprendo l'orifizio e consentendo il passaggio del fluido (valvola aperta); questo stato perdura fino a quando la bobina è eccitata.
Nel momento in cui si interrompe l'alimentazione dell'elettromagnete, la valvola torna nel suo stato di riposo (valvola chiusa).

The rest position of the valve (solenoid not energized) is closed.
When the electromagnet is energized, the movable armature is raised, opening the orifice and allowing fluid passage (valve open); this state lasts until the coil is energized.
Switching off the power of the electromagnet, the valve returns to its resting state (valve closed).

NC (basso assorbimento) Il pilotaggio PWM (Pulse Width Modulation), denominato a basso assorbimento, implica l'adozione di un circuito elettronico in grado di trasformare la tensione di alimentazione in impulsi modulati, offrendo il vantaggio del risparmio energetico.

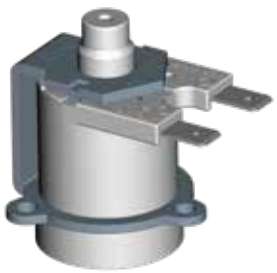
NC (low consuption) The PWM pilot (Pulse Width Modulation), called low consuption, needs the adoption of an electronic circuit able to transform the supply voltage into modulated pulses, offering the advantage of energy saving.

NORMALMENTE APERTA — *NORMALLY OPEN*

La posizione di riposo della valvola (elettromagnete non alimentato) è aperta.
Quando l'elettromagnete viene alimentato, il nucleo mobile si abbassa chiudendo l'orifizio ed impedendo il passaggio del fluido (valvola chiusa); questo stato perdura fino a quando la bobina è eccitata. Nel momento in cui si interrompe l'alimentazione dell'elettromagnete, la valvola torna nel suo stato di riposo (valvola aperta).

The rest position of the valve (solenoid not energized) is open.
When the electromagnet is energized, the movable armature is lowered by closing the orifice and preventing the passage of the fluid (valve closed); this state lasts until the coil is energized. Switching off the power of the electromagnet, the valve returns to its resting state (valve open).

BISTABILE — *LATCHING*



L'elettromagnete deve essere alimentato con impulsi di polarità opposta. Ad un impulso positivo l'elettromagnete apre la valvola, ad un impulso negativo l'elettromagnete chiude la valvola.
La durata dell'impulso deve essere di 15 ms **(si veda lo schema delle pagine successive)**. Terminato l'impulso, e a bobina non eccitata, la valvola rimane nell'ultimo stato di commutazione.

The electromagnet must be powered with pulses of opposite polarity. By a positive pulse the electromagnet opens the valve, by a negative pulse the electromagnet closes the valve.
*The pulse width must be 15 ms **(see diagram on the next pages)**. When the pulse ends, and coil is not energized, the valve remains in the last switching status.*

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	NBR	Model	NBR
Materiale inserto	POM	Insert material	POM
Approvazione alimentare	Su richiesta	Food approval	On demand

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	EPDM	Model	EPDM
Materiale inserto	POM / PPS	Insert material	POM / PPS
Approvazione alimentare	Sì	Food approval	Yes

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	LSR	Model	LSR
Materiale inserto	POM / PPS	Insert material	POM / PPS
Approvazione alimentare	Sì	Food approval	Yes

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	EPDM 8 fori	Model	EPDM 8 orifices
Materiale inserto	PPS	Insert material	PPS
Approvazione alimentare	Sì	Food approval	Yes

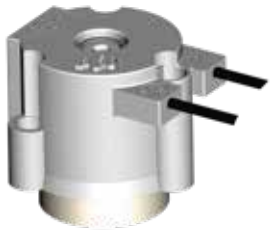
CARATTERISTICHE		*SPECIFICATIONS*	
Modello	LSR 8 fori	Model	LSR 8 orifices
Materiale inserto	PPS	Insert material	PPS
Approvazione alimentare	Sì	Food approval	Yes

Modello Model	Serie R R Series	Serie R Mini R Series Mini	Serie R Dispenser R Series Dispenser	Serie R Mod. e Comp. / R Series Mod. and Comp.	Serie R Dual R Series Dual	Serie R Universale R Series Universal
NBR	✓	✓	✓	✓	✓	✓
EPDM	✓	✓	✓	✓	✓	✓
LSR	✓	✓	✓	✓	✓	✓
EPDM 8 FORI		✓				✓
LSR 8 FORI		✓				✓

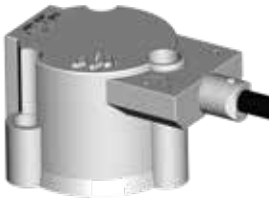
Serie R - Connessioni Elettriche

R Series - Electrical connections

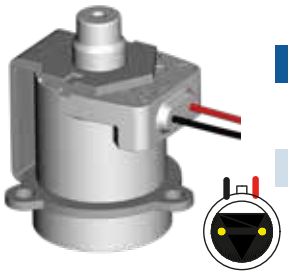
CARATTERISTICHE		*SPECIFICATIONS*	
Tipologia	Faston	Type	Faston
Dimensioni	6,3 x 0,8 mm	Dimensions	6,3 x 0,8 mm
Protezione	IP X0	Protection	IP X0



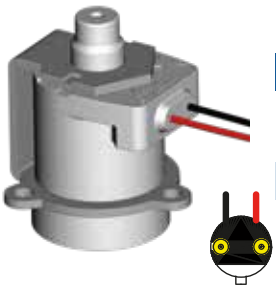
CARATTERISTICHE		*SPECIFICATIONS*	
Tipologia	Cavi Unipolari	Type	Unipolar wires
Lunghezze	Standard 300 mm; custom max 5000 mm	Length	Standard 300 mm; custom max 5000 mm
Protezione	IP 55	Protection	IP 55



CARATTERISTICHE		*SPECIFICATIONS*	
Tipologia	Cavi Bipolari	Type	Bipolar wires
Lunghezze	300; 620; 1020; 1450; 2000; 2500 mm; custom max 5000 mm	Length	300; 620; 1020; 1450; 2000; 2500 mm; custom max 5000 mm
Protezione	IP 55	Protection	IP 55



CARATTERISTICHE		*SPECIFICATIONS*	
Tipologia	Connettore IP 65 Maschio	Type	Male IP 65 Connector
Lunghezza	150 mm	Length	150 mm
Protezione	IP 55	Protection	IP 55



CARATTERISTICHE		*SPECIFICATIONS*	
Tipologia	Connettore IP 65 Femmina	Type	Female IP 65 Connector
Lunghezza	150 mm	Length	150 mm
Protezione	IP 55	Protection	IP 55

GRADO DI PROTEZIONE		*PROTECTION DEGREE*	
IP X0:	Nessuna protezione contro il contatto di corpi solidi esterni e contro la penetrazione dei liquidi	IP X0:	*No protection against contact with external solid and against the penetration of liquids*
IP 55:	Involucro protetto contro la polvere e i getti d'acqua	IP 55:	Wrap protected against dust and water jets
IP 65:	Garantisce la protezione totale alla penetrazione di corpi solidi, la penetrazione di liquidi da gocce, vapori, spruzzi e getti d'acqua in qualsiasi direzione	IP 65:	*It guarantees total protection against the penetration of solid bodies, the penetration of liquids by drops, vapors, sprays and jets of water in any direction*

			POTENZA POWER		ASSORBIMENTO CONSUPTION				CONNESSIONI CONNECTIONS		CONTROLLO CONTROL		
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. Holding Power	Potenza di spunto In Rush Power	Assorbim. (mA) in mantenimento Holding Current	Assorbim. (mA) in spunto In Rush Current	cos φ	ED (funzionamento) (duty cycle)	Faston (F) Cavi (wires)*** Unipolari (C)	Cavi (wires)*** bipolari (in mm)	Approvazioni Approvals	NC	NA** (NO)
1	12 V AC	50 HZ 60 HZ	5 VA 4,5 VA	5,9 VA 5,4 VA	429 mA 382 mA	490 mA 440 mA	0,63 0,57	100%	F			✓	✓
2	12 V AC/ DC	50 HZ 60 HZ =	4,4 VA 4,1 VA 8,5 W	5,2 VA 4,6 VA /	365 mA 340 mA 710 mA	433 mA 383 mA /	0,65 0,59 /	100%	F, C	2500	Enec	✓	✓
3	12 V AC/ DC	50 HZ 60 HZ =	4,4 VA 4,1 VA 8,5 W	5,2 VA 4,6 VA /	365 mA 340 mA 710 mA	433 mA 383 mA /	0,65 0,59 /	100%	F, C	2500	Enec, GW	✓	✓
4	12 V DC	=	5,4 W	/	450 mA	/	/	100%	F, C		Enec	✓	✓
5	12 V DC	=	5,4 W	/	450 mA	/	/	100%	F, C		Enec, GW	✓	✓
6	12 V DC (B.A.)	=	3,2 W	/	300 mA	/	/	100%	F, C			✓	✓
7	24 V AC	50 HZ 60 HZ	7,2 VA 6,5 VA	8,1 VA 7,3 VA	302 mA 270 mA	337 mA 305 mA	0,65 0,60	100%	F, C	620, 2500	Enec	✓	✓
8	24 V AC	50 HZ 60 HZ	7,2 VA 6,5 VA	8,1 VA 7,3 VA	302 mA 270 mA	337 mA 305 mA	0,65 0,60	100%	F		Enec, UL	✓	✓
9	24 V DC (B.A.)	=	3,2 W	/	134 mA	/	/	100%	F, C	1000, 1450, 2000, 2500		✓	✓
10	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F, C		Enec	✓	✓
11	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F, C		Enec, GW, UL	✓	✓
12	L6V DC	=	2,25 W (15ms)	/	375 mA	/	/	Bistabile Latching	F, C			Bistabile Latching	
13	100/120 V AC	50 HZ 60 HZ	8 VA	8,8 VA 7,9 VA	70 mA 63 mA	80 mA 72 mA	0,66 0,60	100%	F		UL	✓	✓
14	220/240 V AC	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%	F, C	620	Enec	✓	✓
15	220/240 V AC	50 HZ 60 HZ	12,65 VA 10,71 VA	13 VA 11,61 VA	55 mA 46 mA	58 mA 51 mA	0,69 0,61	3 min ON 5 min OFF	F, C	620	Enec	✓	✓
16	220/240 V AC	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%	F		UL	✓	✓
17	230V AC	50 HZ 60 HZ	8,4 VA 7,6 VA	9,7 VA 8,3 VA	36,5 mA 33 mA	42 mA 36 mA	0,74 0,70	100%	F, C	620, 1000, 1450, 2000, 2500	Enec	✓	✓
18*	230V AC	50 HZ 60 HZ	8,4 VA 7,6 VA	9,7 VA 8,3 VA	36,5 mA 33 mA	42 mA 36 mA	0,74 0,70	100%	F, C		Enec	✓	✓
19	220/240 V	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%			Enec	✓	✓
20	100/120 V	50 HZ 60 HZ	5 VA	/	50 mA	/	/	100%			Enec	✓	✓
21	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F		UL	✓	✓
22	12 V	50 HZ 60 HZ	4,38 VA	5,15 VA	360 mA	430 mA	/	100%	F		UL	✓	✓
23****	220/240 V AC	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%	F		Enec	✓	✓
24	24V DC	=	11,8 W	/	491 mA	/	/	50%	F		GW	✓	✓
25	24V DC	=	8 W	/	335 mA	/	/	100%	F		Enec	✓	✓
26	24V DC	=	8 W	/	335mA	/	/	100%	F		UL	✓	✓
27	L9V DC L12V DC	=	2,75 W (15ms) 4,9 W (15ms)	/	310mA 410mA	/	/	Bistabile Latching	F, C			Bistabile Latching	
28	L24V DC	=	2,35 W (15ms)	/	100mA	/	/	Bistabile Latching	F, C			Bistabile Latching	
29	L3V DC	=	2,25 W (15ms)	/	790mA	/	/	Bistabile Latching	F, C			Bistabile Latching	

Legenda / *Legend*
NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: GlowWire
ED: Funzionamento (*Duty Cycles*) = 100%

Approvazioni Approvals: ENEC, UL, GW
Faston: IP X0
Cavi (*wires*): IP 55
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F
Tipo faston (*Faston type*): 6,30x0,8mm

(*) Materiali approvati UL / *UL approved materials*
(**) I solenoidi NA non sono disponibili con cavi bipolari / *NO solenoids are not available with bipolar wires*
(***) I solenoidi unipolari e bipolari sono disponibili per le valvole della SERIE R DOPPIA, TRIPLA e QUADRUPLA
Solenoids with unipolar or bipolar wires are not available for R DOUBLE, TRIPLE or QUADRUPLE SERIES

Serie R - Piloti a basso assorbimento

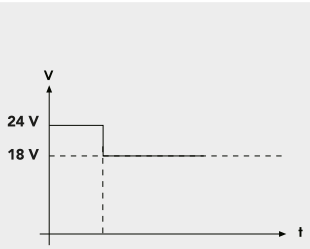
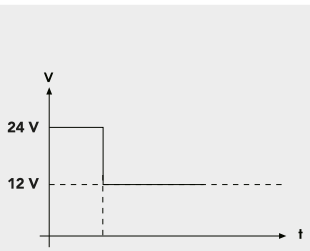
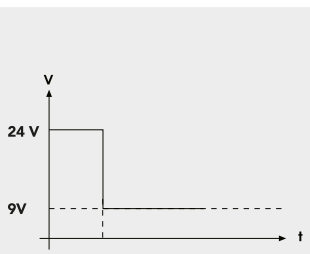
R Series - Low consumption Pilots

DESCRIZIONE

Il pilotaggio PWM (Pulse Width Modulation), denominato a basso assorbimento, implica l'adozione di un circuito elettronico in grado di trasformare la tensione di alimentazione in impulsi modulati, offrendo il vantaggio del risparmio energetico. Il sistema di controllo fornisce una corrente di picco fino alla fine del movimento meccanico per poi passare in modalità di mantenimento.

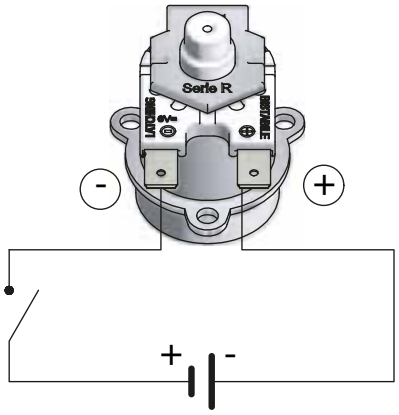
DESCRIPTION

The PWM pilot (Pulse Width Modulation), called low consuption, needs the adoption of an electronic circuit able to transform the supply voltage into modulated pulses, offering the advantage of energy saving. The control system provides a peak current until the end of the mechanical movement and then moved to maintenance mode.

24 V			12 V
	-	Durata impulso - Timing pulse	-
	-	Tensione impulso - Voltage pulse	-
	24 V	Tensione di mantenimento Maintained voltage	12 V
	175 mA	Assorbimento tensione di mantenimento Current consumption at maintained voltage	300 mA
	3,2 W	Potenza alla tensione di mantenimento Power consumption at maintained voltage	3,6 W
	-	Salto termico - Temperature rise	40 °C
	100 ms	Durata impulso - Timing pulse	100 ms
	24 V	Tensione impulso - Voltage pulse	12 V
	18 V	Tensione di mantenimento Maintained voltage	8 V
	103 mA	Assorbimento tensione di mantenimento Current consumption at maintained voltage	200 mA
	1,85 W	Potenza alla tensione di mantenimento Power consumption at maintained voltage	1,6 W
	-	Salto termico - Temperature rise	16 °C
	100 ms	Durata impulso - Timing pulse	100 ms
	24 V	Tensione impulso - Voltage pulse	12 V
	12 V	Tensione di mantenimento Maintained voltage	6 V
	69 mA	Assorbimento tensione di mantenimento Current consumption at maintained voltage	145 mA
	0,84 W	Potenza alla tensione di mantenimento Power consumption at maintained voltage	0,87 W
	-	Salto termico - Temperature rise	10 °C
	100 ms	Durata impulso - Timing pulse	100 ms
	24 V	Tensione impulso - Voltage pulse	12 V
	9 V	Tensione di mantenimento Maintained voltage	4 V
	51 mA	Assorbimento tensione di mantenimento Current consumption at maintained voltage	95 mA
	0,46 W	Potenza alla tensione di mantenimento Power consumption at maintained voltage	0,38 W
	-	Salto termico - Temperature rise	4 °C

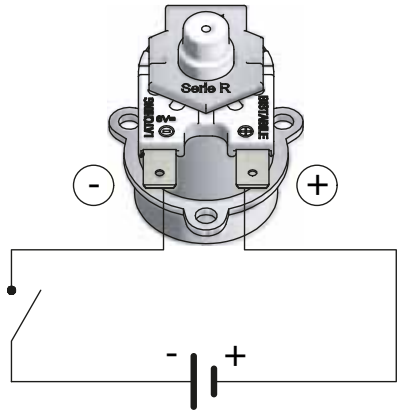
COMANDO DI APERTURA / *OPENING CONTROL* | **COMANDO DI CHIUSURA / *CLOSING CONTROL***

ON

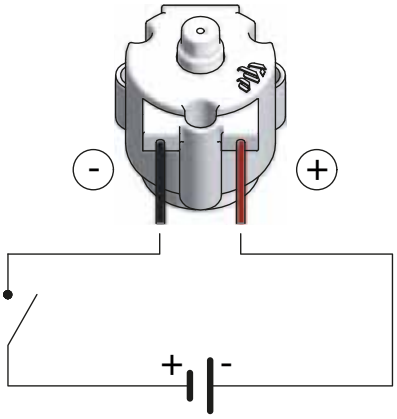


FASTON

OFF

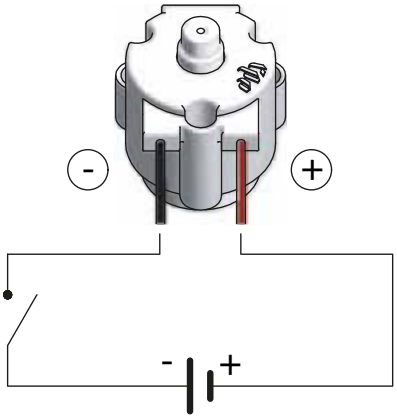


ON

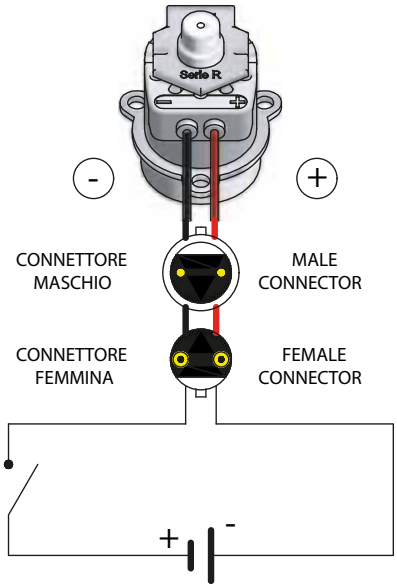


CAVI
Wires

OFF

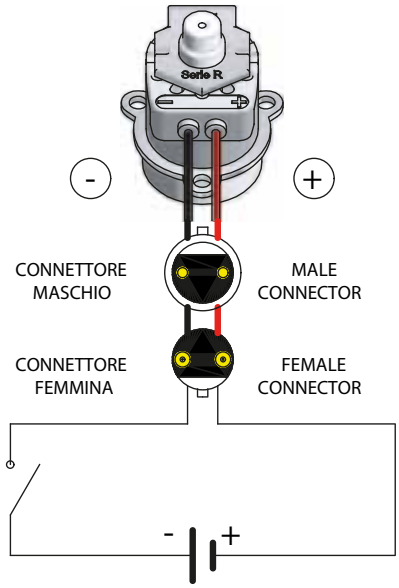


ON

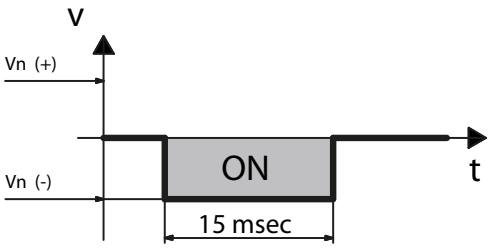


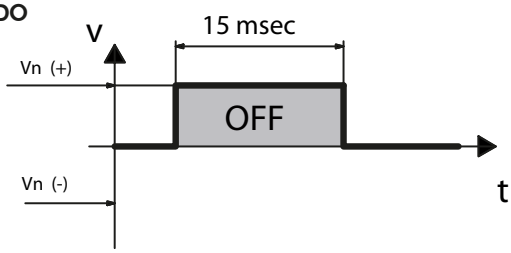
CONNETTORI IP 65
IP 65 connectors

OFF



IMPULSI DI COMANDO
Control impulse





Serie R - Piloti diretti
R Series - Direct pilots

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

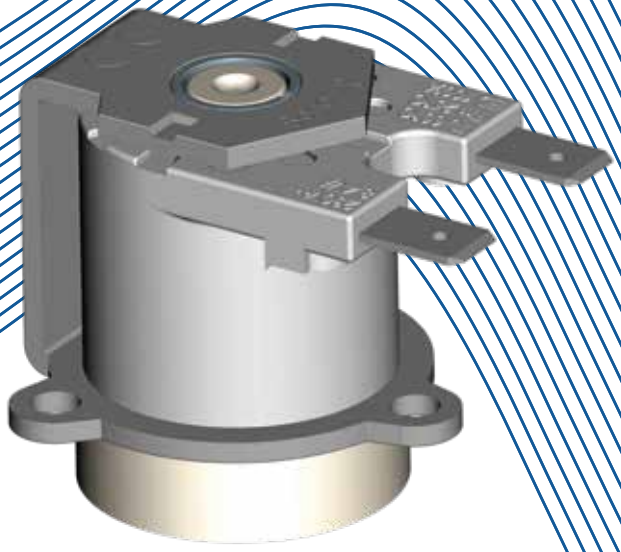
Elettrodomestici
Household appliances

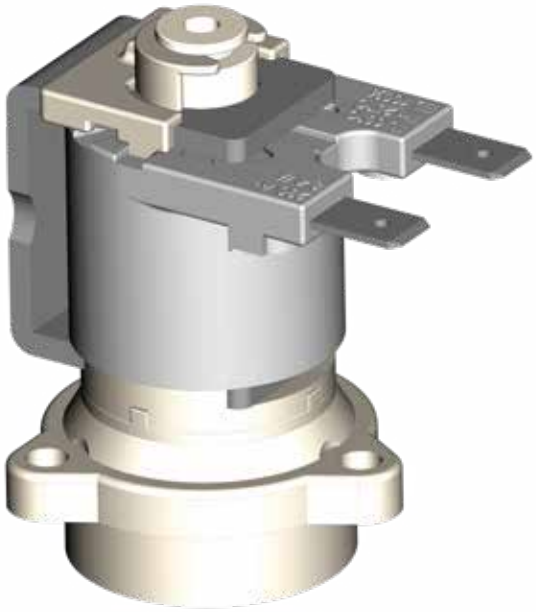
Bevande e filtrazione
Beverage & filtering

Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances





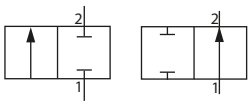
SPECIFICHE TECNICHE

- Operatori 2/2 vie diretti
- Pressione di esercizio: 0-10 bar
- Temperatura fluido: 0-60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 MIN ON - 5 MIN OFF)
- Guarnizioni in LSR
- Opzioni disponibili: (NC) Normalmente chiusa e (NA) Normalmente Aperta
- Certificazione ENEC o UL per il mercato Nord Americano

TECHNICAL SPECIFICATIONS

- *2/2-way direct operators*
- *Working pressure: 0-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 MIN ON - 5 MIN OFF)*
- *LSR seals*
- *Options available: (NC) Normally closed, (NO) Normally open*
- *ENEC or UL certified for the North American market*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di solenoidi / *Wide range of solenoids*
- Compatibilità con tutti i corpi della Serie R / *Compatibility with all R Series bodies*
- Disponibilità di connessioni elettriche differenti (faston, cavi unipolari e bipolari) *Availability of different electrical connections (faston, unipolar and bipolar wires)*
- Solenoidi certificati / *Certified solenoids*

CERTIFICAZIONI / *CERTIFICATION*

Serie R - Inserti

R Series - Inserts

CARATTERISTICHE		*SPECIFICATIONS*	
Orifizio	0,8 mm	Orifizio	0,8 mm
Materiale inserto	POM	Insert material	POM
Materiale membrana	LSR	Diaphragms material	LSR
Approvazione alimentare	Sì	Food approval	Yes

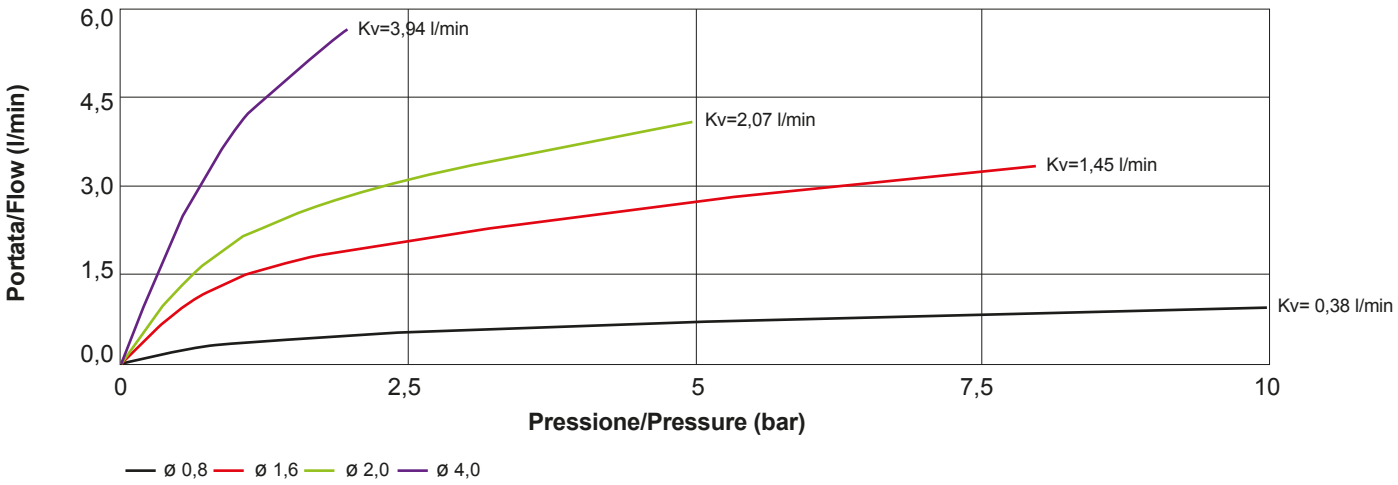
CARATTERISTICHE		*SPECIFICATIONS*	
Orifizio	1,6 mm	Orifizio	1,6 mm
Materiale inserto	POM	Insert material	POM
Materiale membrana	LSR	Diaphragms material	LSR
Approvazione alimentare	Sì	Food approval	Yes

CARATTERISTICHE		*SPECIFICATIONS*	
Orifizio	2,0 mm	Model	2,0 mm
Materiale inserto	POM	Insert material	POM
Materiale membrana	LSR	Diaphragms material	LSR
Approvazione alimentare	Sì	Food approval	Yes

CARATTERISTICHE		*SPECIFICATIONS*	
Orifizio	4,0 mm	Model	4,0 mm
Materiale inserto	POM	Insert material	POM
Materiale membrana	LSR	Diaphragms material	LSR
Approvazione alimentare	Sì	Food approval	Yes

Modello Model	Serie R R Series	Serie R Mini R Series Mini	Serie R Dispenser R Series Dispenser	Serie R Mod. e Comp. / R Series Mod. and Comp.	Serie R Dual R Series Dual	Serie R Universale R Series Universal
0,8 mm	✓	✓	✓	✓	✓	✓
1,6 mm	✓	✓	✓	✓	✓	✓
2,0 mm	✓	✓	✓	✓	✓	✓
4,0 mm	✓	✓	✓	✓	✓	✓

GRAFICO PORTATE / *FLOW RATES CHART*



Tensione Voltage	230 V AC	24 V AC	24 V DC	12 V AC-DC (AC)	12 VAC-DC (DC)	12V DC	220-240 V AC	110 V
Frequenza Frequency	50 HZ 60 HZ	50 HZ 60 HZ	=	50 HZ 60 HZ	=	=	50 HZ 60 HZ	50 HZ 60 HZ
Assorbimento Consuption	36,5 mA	302 mA	265 mA	365 mA	710 mA	450 mA	55 mA	70 mA 63 mA
Potenza Power	8,39 VA	7,24 VA	6,35 W	4,38 VA	8,52 W	5,4 W	12,65 VA	8 VA
ED (funzionamento) (duty cycle)	ED 100%	ED 100%	ED 100%	ED 100%	ED 100%	ED 100%	3 min ON 5 min OFF	ED 100%
	⬇	⬇	⬇	⬇	⬇	⬇	⬇	⬇
Pressione Pressure								
Ø 0,8 mm	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 - 10 bar
Ø 1,6 mm	0 ÷ 4 bar	0 ÷ 4 bar	0 ÷ 2,5 bar	0 ÷ 2 bar	0 ÷ 4 bar	0 ÷ 3 bar	0 ÷ 8 bar	0 - 2,5 bar
Ø 2 mm	0 ÷ 2,5 bar	0 ÷ 2,5 bar	0 ÷ 2 bar	0 ÷ 1 bar	0 ÷ 2,5 bar	0 ÷ 1,5 bar	0 ÷ 5 bar	0 ÷ 2,0 bar
Ø 4 mm	0 ÷ 0,8 bar	0 ÷ 0,8 bar	0 ÷ 0,5 bar	0 ÷ 0,5 bar	0 ÷ 0,8 bar	0 ÷ 0,5 bar	0 ÷ 1,6 bar	0 ÷ 0,05 bar

Il passaggio da ø 0,8 mm e ø 4 mm non è disponibile per valvole Normalmente Aperte (NA)
ø 0,8 mm and ø 4 mm orifice are not available for Normally Open (NO) valves

Serie R - Riduttori di pressione

R Series - Pressure Reducers

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

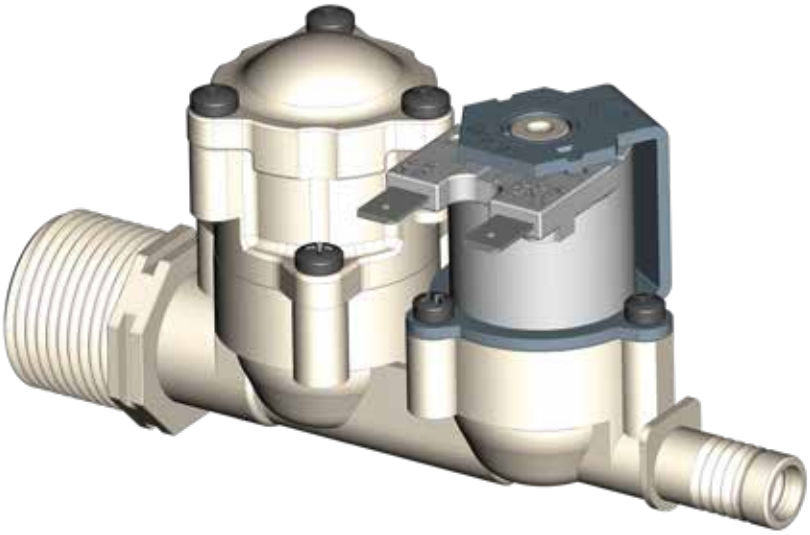
Elettrodomestici
Household appliances

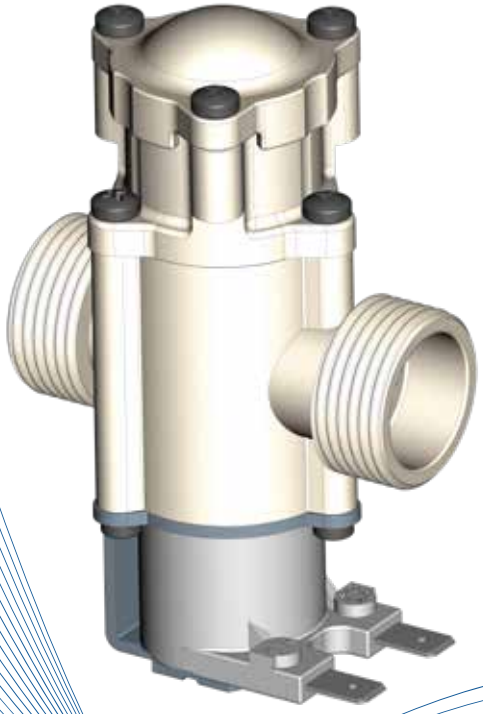
Bevande e filtrazione
Beverage & filtering

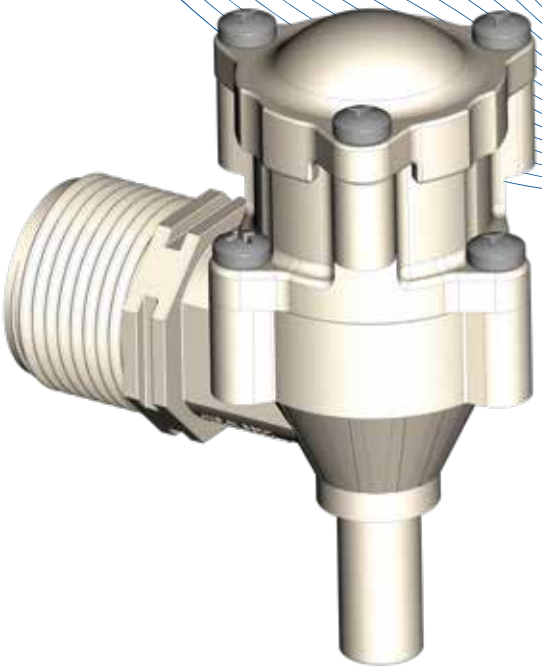
Medicale & Riuniti dentali
Medical & Dental units

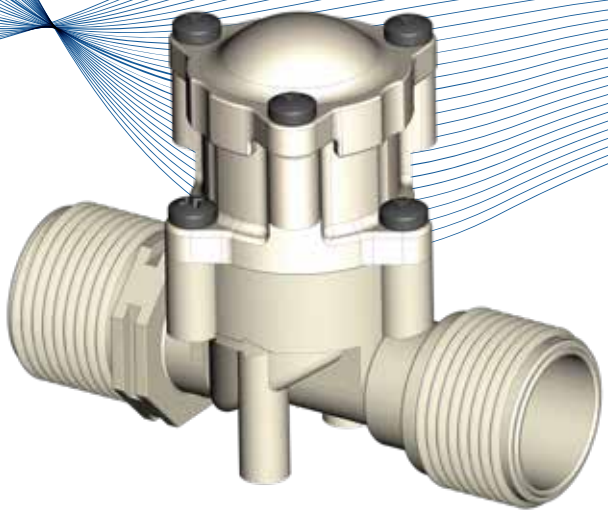
Sanitari
Sanitary

Marina, Nautica
Marine appliances









SPECIFICHE TECNICHE

- Pressione di esercizio: 0-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: 0-60°C
- DN: 5mm
- Unidirezionale

TECHNICAL SPECIFICATIONS

- *Working pressure: 0-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-60°C*
- *DN 5 mm*
- *Unidirectional*

ICONE / *ICONS*

PUNTI DI FORZA / *HIGHLIGHTS*

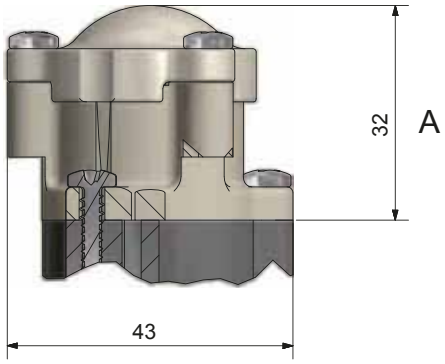
- Modularità e compattezza / *Modularity and compactness*
- Compatibile con tutti i corpi della Serie R / *Compatible with all R Series bodies*
- Taratura della pressione in uscita in fabbrica / *Outlet pressure calibration directly at the factory*
- Installabile in qualsiasi posizione / *Installable in any position*
- Certificati per il contatto con acqua e alimenti / *Element certified for contact with water and food*

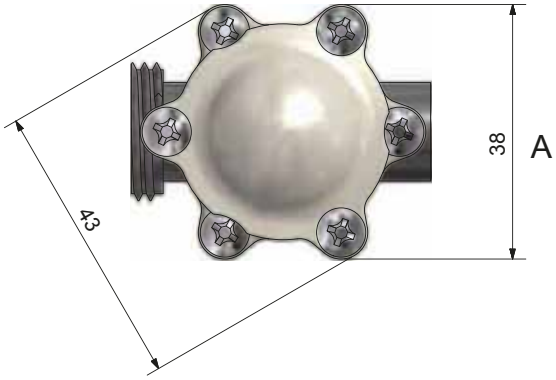
CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie R - Riduttori di pressione
R Series - Pressure Reducers

RIDUTTORE DI PRESSIONE / *PRESSURE REDUCER*

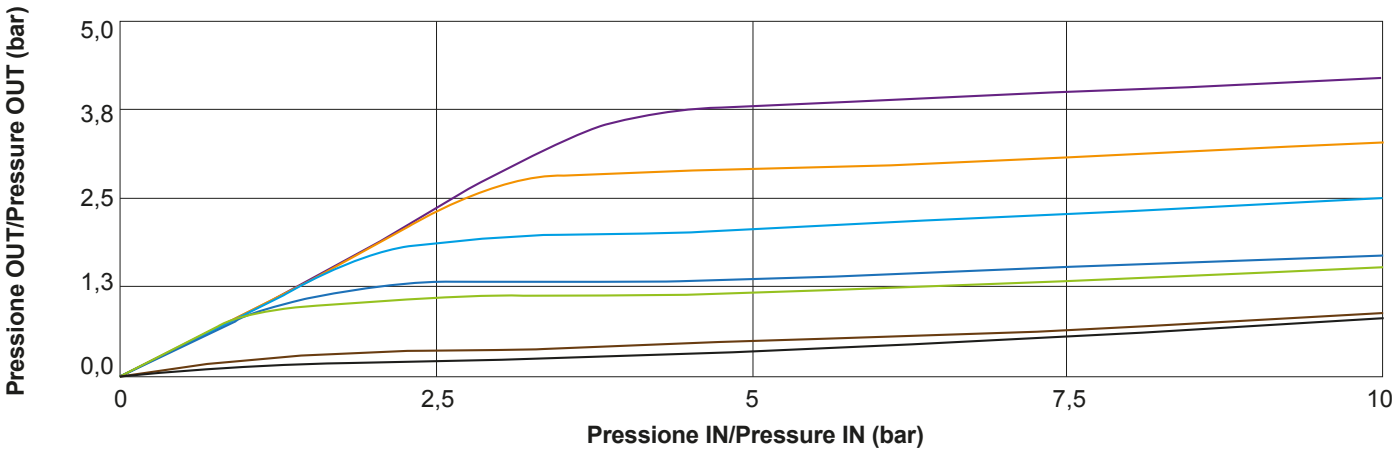




CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Montabile su	Tutta la Serie R	Can be fitted on	All the R Series
Rid. di pressione	PA 66 30% FV	Flow meter body	PA 66 30% GF
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
O-Ring	LSR / EPDM	O-Ring	LSR / EPDM
Membrana	EPDM + tessuto	Diaphragm	EPDM + textile
Stelo	POM	Rod	POM
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

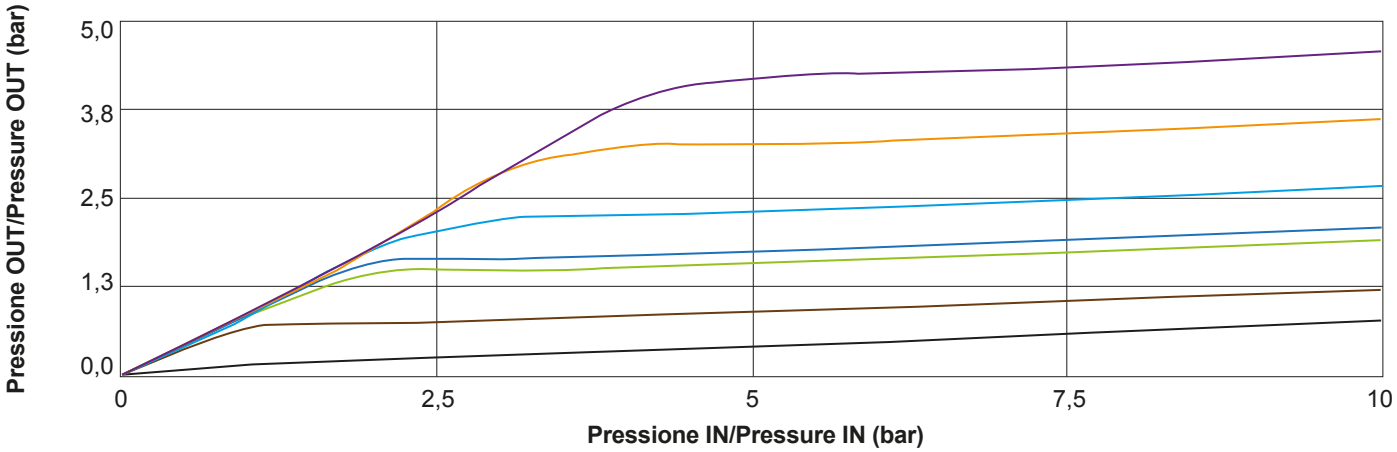
CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	Max 10 bar	Inlet pressure	Max 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 60° C	Fluid temperature	Tm 60° C
Direzione del fluido	Unidirezionale	Flow direction	Unidirectional
Riduzione	0,4 bar	Outlet pressure	0,4 bar
in uscita (fissa)	0,5 bar	restrictor (fixed)	0,5 bar
	1,2 bar		1,2 bar
	1,5 bar		1,5 bar
	2 bar		2 bar
	3 bar		3 bar
	4 bar		4 bar

GRAFICO PRESSIONE DINAMICA / DYNAMIC *PRESSURE CHART (P IN / P OUT)*



Per riduttore 0,4 bar: 0,5 l/min @4bar Per tutti gli altri: 1,0 l/min @4bar
For reducer 0,4 bar: 0,5 l/min @4bar For all the others: 1,0 l/min @4bar

GRAFICO PRESSIONE STATICA / *STATIC PRESSURE CHART (P IN / P OUT)*



Per riduttore 0,4 bar: 0,5 l/min @4bar Per tutti gli altri: 1,0 l/min @4bar
For reducer 0,4 bar: 0,5 l/min @4bar For all the others: 1,0 l/min @4bar

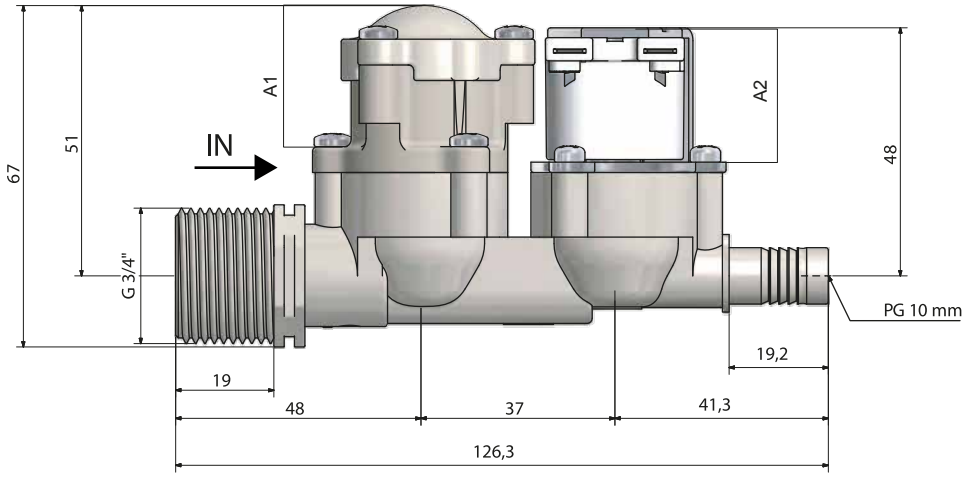
RIDUTTORE DI PRESSIONE + BOBINA / *PRESSURE REDUCER + COIL*

M.O.Q.:
48 pcs

IN:
G 3/4 " M

OUT:
PG 10 mm

A1: 32
A2: 28



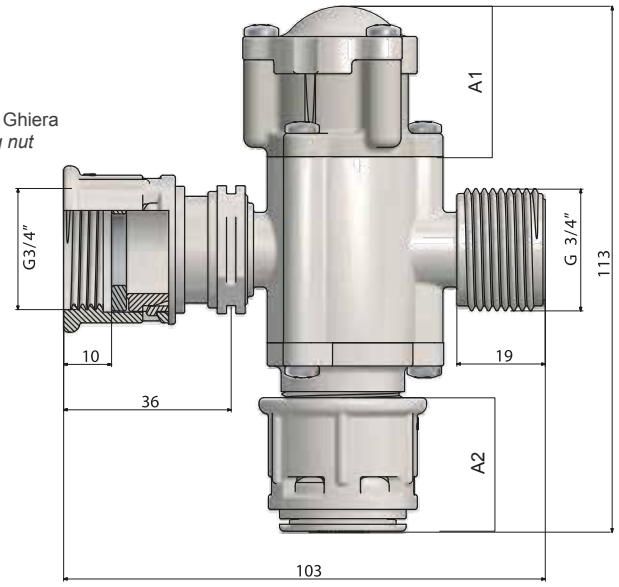
RIDUTTORE + FILTRO FM / *PRESSURE REDUCER + FILTER FM*

M.O.Q.:
48 pcs

IN:
3/4" F + Ghiera
whit ring nut

OUT:
3/4" M

A1: 32
A2: 40



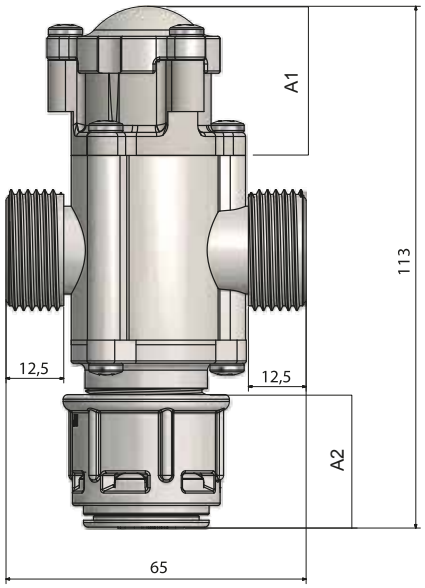
RIDUTTORE + FILTRO FF / *PRESSURE REDUCER + FILTER FF*

M.O.Q.:
48 pcs

IN:
3/4" BSPP

OUT:
3/4" BSPP

A1:32
A2:40



Serie R - Riduttori di pressione
R Series - Pressure Reducer

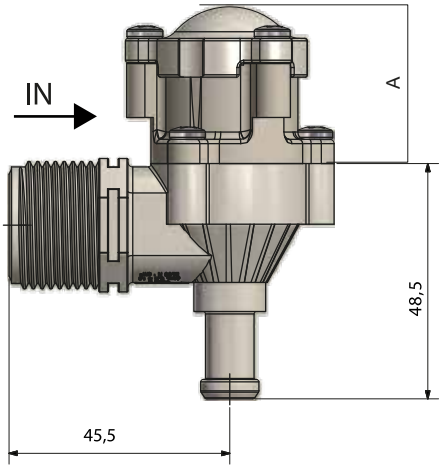
SERIE R 90° / *R SERIES 90°*

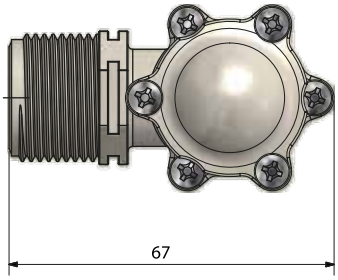
M.O.Q.:
120 pcs

IN:
1/2" M
3/4" M
3/4" M GHT

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
3/8" M
1/2" M

A:32





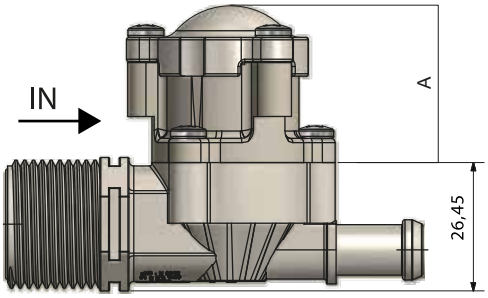
SERIE R 180° / *R SERIES 180°*

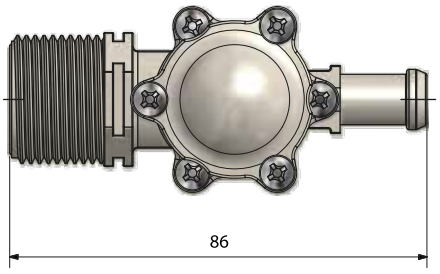
M.O.Q.:
160 pcs

IN:
3/4" M
PF 6 mm
PF 8 mm
PF 10 mm

OUT:s
PG 10 mm
PG 13 mm
Codolo
10 mm
PF 1/4
1/2" M
PG 6 mm
PG 8 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

A:32





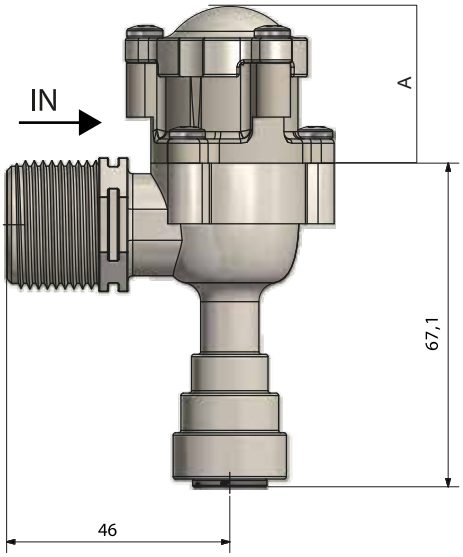
SERIE R 90° PF / *R SERIES 90° PF*

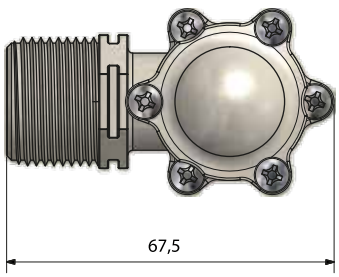
M.O.Q.:
120 pcs

IN:
3/4" M

OUT:
PF 6 mm
PF 8 mm
PF 10 mm
PF 12 mm

A:32



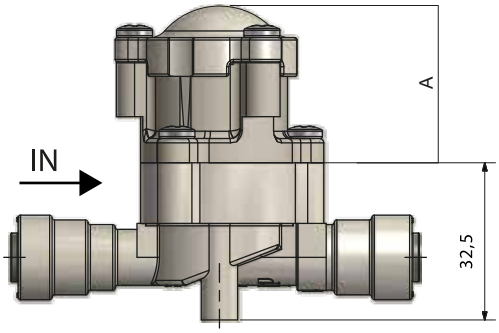


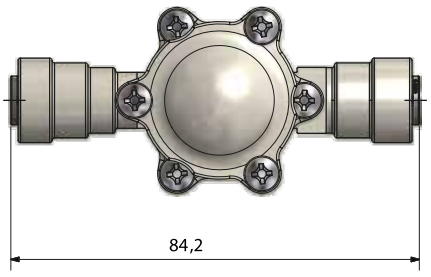
SERIE R MINI PF / *R SERIES MINI PF*

M.O.Q.:
160 pcs

IN = OUT:
PF 1/4"
PF 3/8"
PF 6 mm
PF 8 mm
PF 10 mm
PF 15 mm

A:32





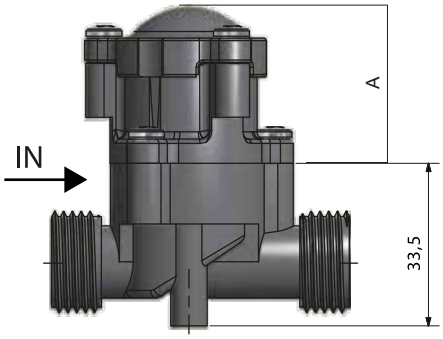
Misure in millimetri - Dimensions in millimeters

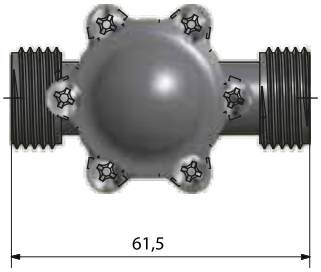
SERIE R MINI MASCHIO / *R SERIES MINI MALE*

M.O.Q.:
160 pcs

IN = OUT:
1/4" M
3/8" M
1/2" M
3/4" M

A:32



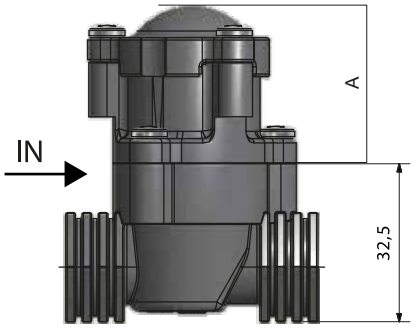


SERIE R MINI FEMMINA / *R SERIES MINI FEMALE*

M.O.Q.:
160 pcs

IN = OUT:
1/8" F
1/4" F
3/8" F
1/2" F

A:32



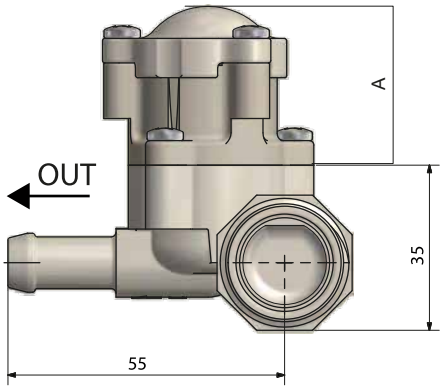
SERIE R MODULARE MASCHIO
R SERIES MODULAR MALE

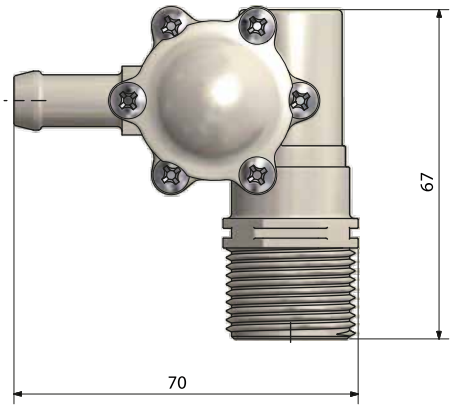
M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PF 10 mm

A:32





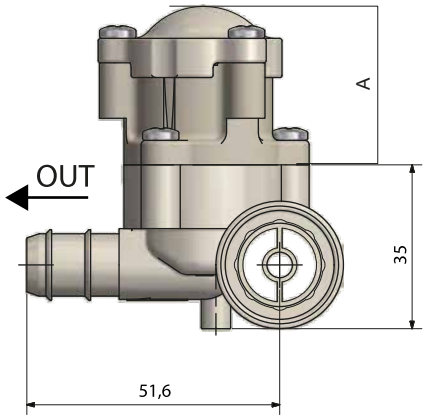
SERIE R COMPONIBILE FEMMINA
R SERIES COMPONIBLE FEMALE

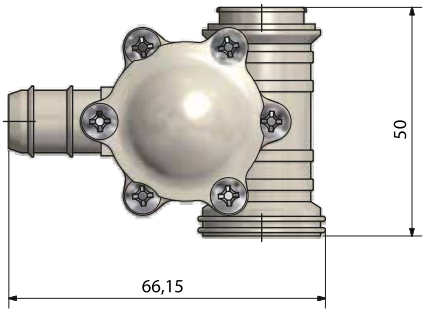
M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
PF 1/4
PG 6 mm
PG 8 mm
PG 10 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

A:32





Serie R - Filtro
R Series - Filter

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

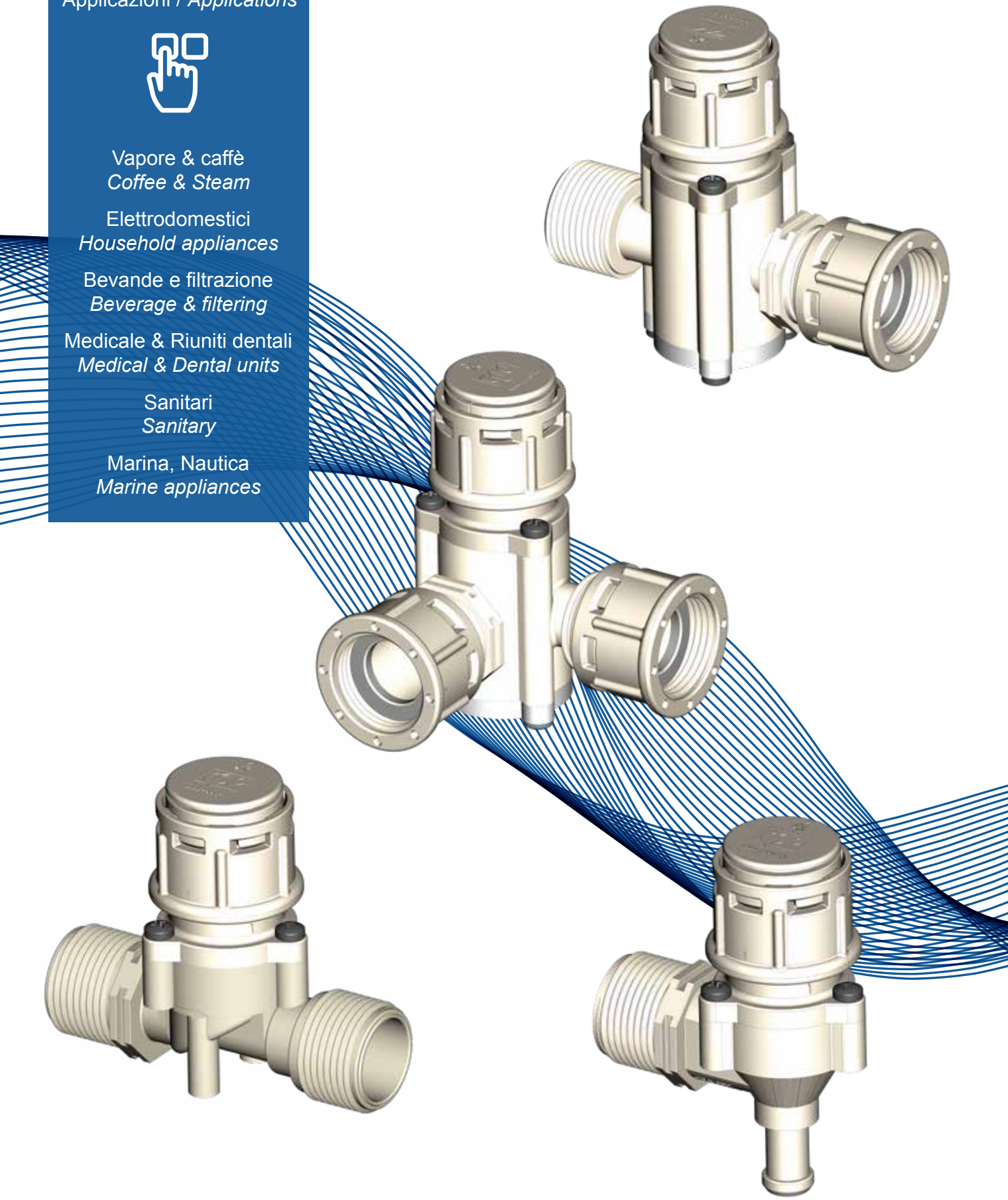
Elettrodomestici
Household appliances

Bevande e filtrazione
Beverage & filtering

Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances



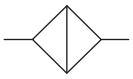
SPECIFICHE TECNICHE

- Pressione di esercizio: 0-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: 0-60°C
- DN: 11mm
- Ispezionabile
- Bidirezionale

TECHNICAL SPECIFICATIONS

- *Working pressure: 0-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-60°C*
- *DN 11 mm*
- *Inspectable*
- *Bidirectional*

ICONE / *ICONS*



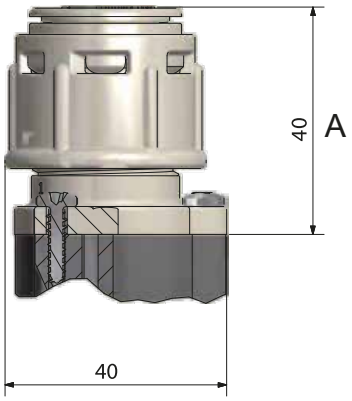
PUNTI DI FORZA / *HIGHLIGHTS*

- Modularità e compattezza / *Modularity and compactness*
- Compatibile con tutti i corpi della Serie R / *Compatible with all R Series bodies*
- Maglia filtrante da 49/64/86/114 Mesh / *49/64/86/114 filter Mesh*
- Facilità di pulizia / *Easy cleaning*
- Disponibile anche nella versione autobloccante / *Also available in a self-locking version*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

SERIE R FILTRO / *R SERIES FILTER*



CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Montabile su	Tutta la Serie R	Can be fitted on	All the R Series
Coperchio filtro	PA 66 30% FV	Filter cap	PA 66 30% GF
Corpo filtro	PA 66 30% FV	Filter body	PA 66 30% GF
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
O-Ring	NBR; LSR	O-Ring	NBR; LSR
Rete filtrante	Acciaio Inox	Filter mesh	Stainless steel
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione in ingresso	Max 10 bar	Inlet pressure	Max 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 60° C	Fluid temperature	Tm 60° C
Direzione fluido	Bidirezionale	Flow direction	Bidirectional
Gradi di filtrazione	131 µ (114 mesh)	Filtration	131 µ (114 mesh)
	168 µ (86 mesh)		168 µ (86 mesh)
	237 µ (64 mesh)		237 µ (64 mesh)
	307 µ (49 mesh)		307 µ (49 mesh)

CARATTERISTICHE		*SPECIFICATIONS*	

Colore	Verde	Color	Green
Grado di filtrazione	131 µ (114 mesh)	Filtration	131 µ (114 mesh)
Approvazione alimentare	Si	Food approval	Yes
Diametro	15,5 mm	Diameter	15,5 mm
Altezza	45 mm	Height	45 mm

Colore	Nero	Color	Black
Grado di filtrazione	168 µ (86 mesh)	Filtration	168 µ (86 mesh)
Approvazione alimentare	Si	Food approval	Yes
Diametro	15,5 mm	Diameter	15,5 mm
Altezza	45 mm	Height	45 mm

Colore	Bianco	Color	White
Grado di filtrazione	237 µ (64 mesh)	Filtration	237 µ (64 mesh)
Approvazione alimentare	Si	Food approval	Yes
Diametro	15,5 mm	Diameter	15,5 mm
Altezza	45 mm	Height	45 mm

Colore	Blu	Color	Blue
Grado di filtrazione	307 µ (49 mesh)	Filtration	307 µ (49 mesh)
Approvazione alimentare	Si	Food approval	Yes
Diametro	15,5 mm	Diameter	15,5 mm
Altezza	45 mm	Height	45 mm

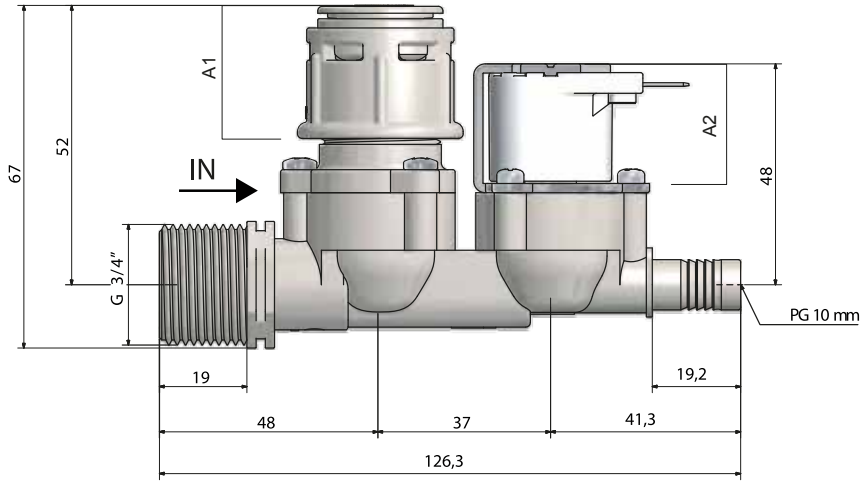
SERIE R DUAL FILTRO IN LINEA / *R SERIES DUAL FILTER*

M.O.Q.:
48 pcs

IN
3/4 " M

OUT
PG 10 mm

A1: 40
A2: 28



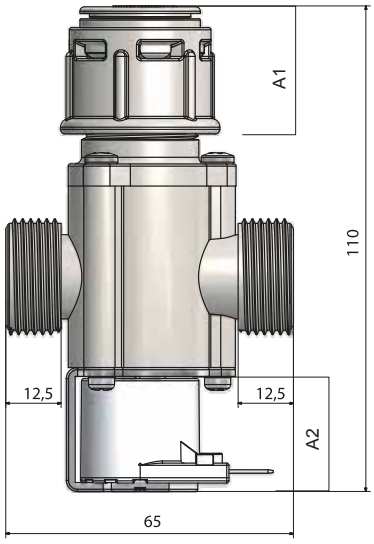
SERIE R DUAL FILTRO CONTRAPPOSTA
R SERIES DUAL FILTER

M.O.Q.:
48 pcs

IN
3/4" BSPP

OUT
3/4" BSPP

A1:40
A2:32



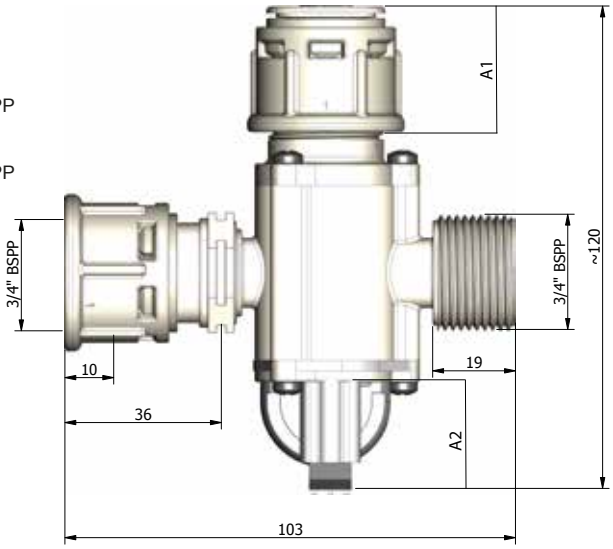
SERIE R DUAL CONTALITRI R FF
SERIES R DUAL FLOW METER FF

M.O.Q.:
48 pcs

IN
3/4" BSPP

OUT
3/4" BSPP

A1:40
A1:31



Serie R - Filtro
R Series - Filter

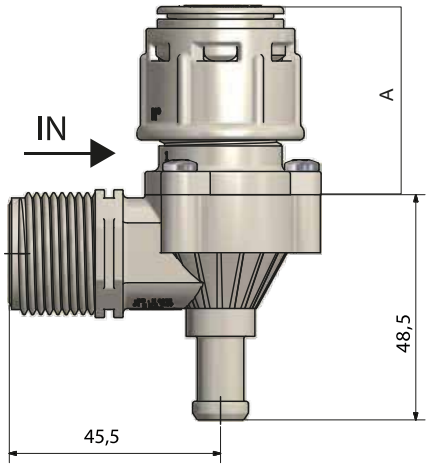
SERIE R 90° / *R SERIES 90°*

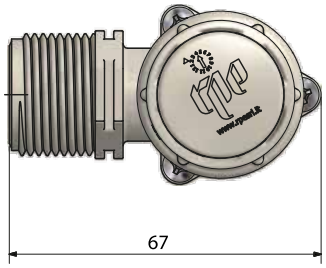
M.O.Q.:
120 pcs

IN:
1/2" M
3/4" M
3/4" M GHT

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
3/8" M
1/2" M

A:40





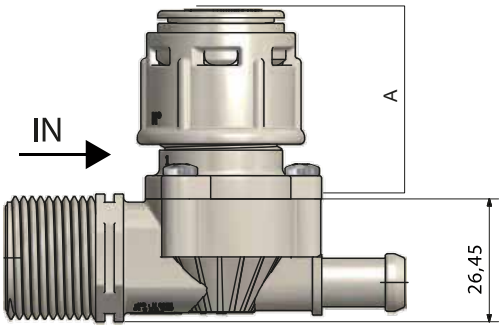
SERIE R 180° / *R SERIES 180°*

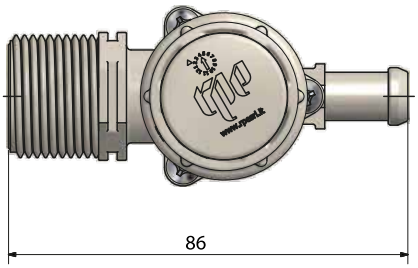
M.O.Q.:
160 pcs

IN:
3/4" M
PF 6 mm
PF 8 mm
PF 10 mm

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
PF 1/4
1/2" M
PG 6 mm
PG 8 mm
PG 10 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

A:40





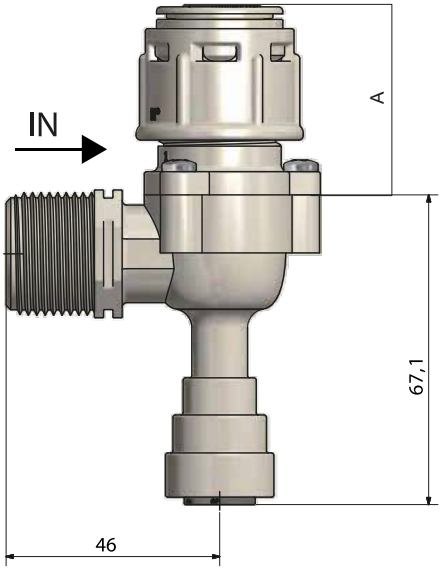
SERIE R 90° PF / *R SERIES 90° PF*

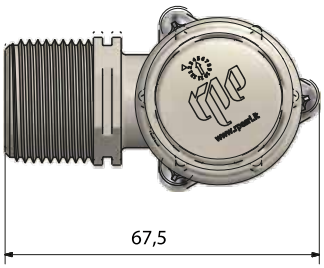
M.O.Q.:
120 pcs

IN:
3/4" M

OUT
PF 6 mm
PF 8 mm
PF 10 mm
PF 12 mm

A:40



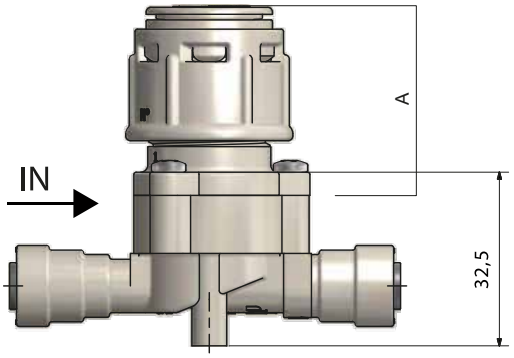


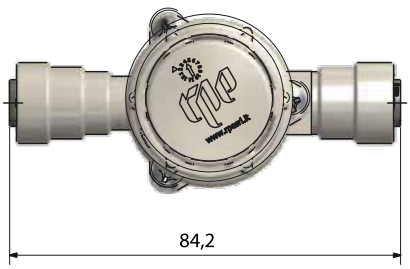
SERIE R MINI PF / *R SERIES MINI PF*

M.O.Q.:
160 pcs

IN = OUT:
PF 1/4"
PF 3/8"
PF 6 mm
PF 8 mm
PF 10 mm
PF 15 mm

A:40





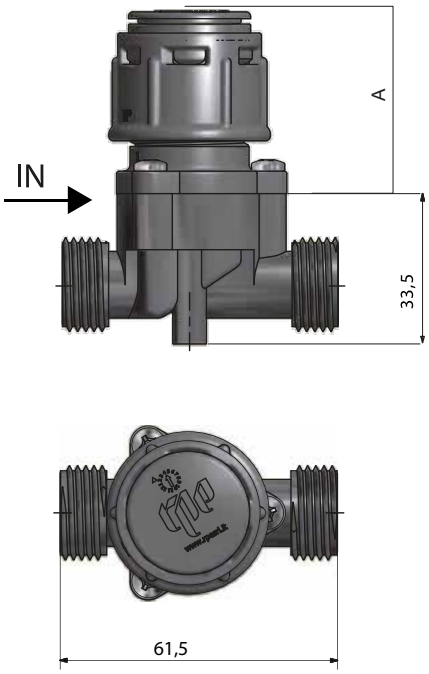
Misure in millimetri - Dimensions in millimeters

SERIE R MINI MASCHIO / *R SERIES MINI MALE*

M.O.Q.:
160 pcs

IN = OUT:
1/4" M
3/8" M
1/2" M
3/4" M

A:40

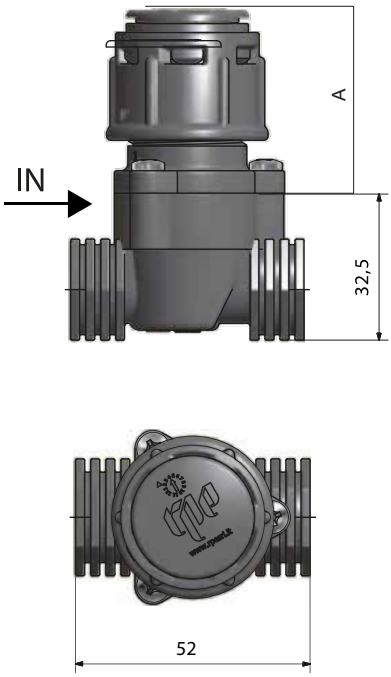


SERIE R MINI FEMMINA / *R SERIES MINI FEMALE*

M.O.Q.:
160 pcs

IN = OUT:
1/8" F
1/4" F
3/8" F
1/2" F

A:40



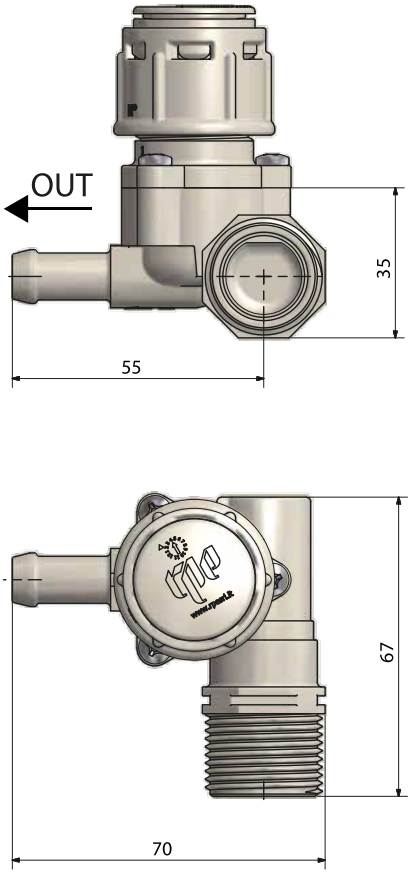
SERIE R MODULARE / *R SERIES MODULAR*

M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PF 10 mm

A:40



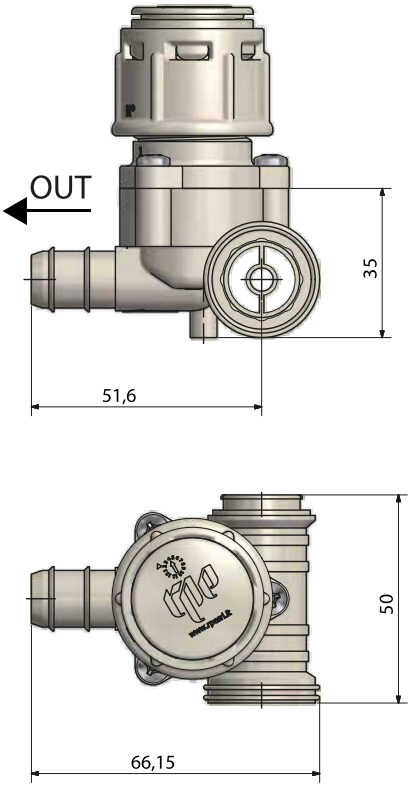
SERIE R COMPONIBILE / *R SERIES COMPONIBLE*

M.O.Q.:
160 pcs

IN:
3/4" M

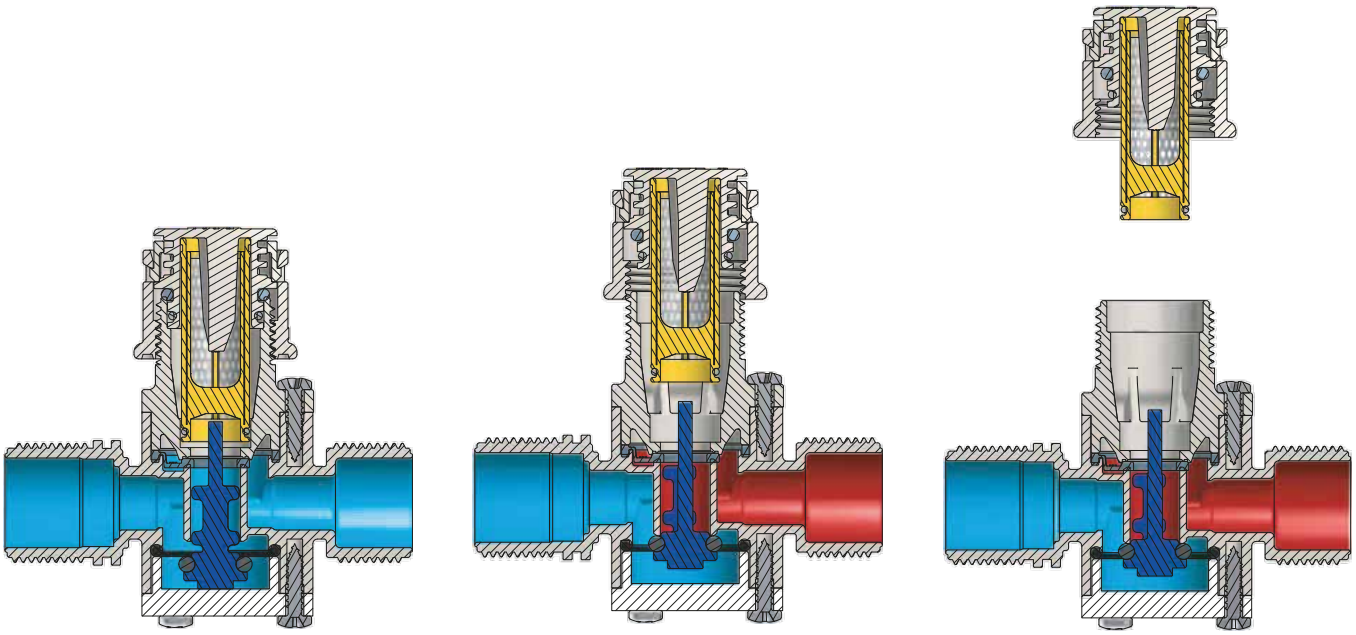
OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
PF 1/4"
PG 6 mm
PG 8 mm
PG 10 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

A:40



Misure in millimetri - Dimensions in millimeters

DETTAGLIO FILTRO AUTO-BLOCCANTE / *SELF-LOCKING FILTER DETAIL*



APERTO / OPEN | CHIUSO / CLOSED | CHIUSO / CLOSED

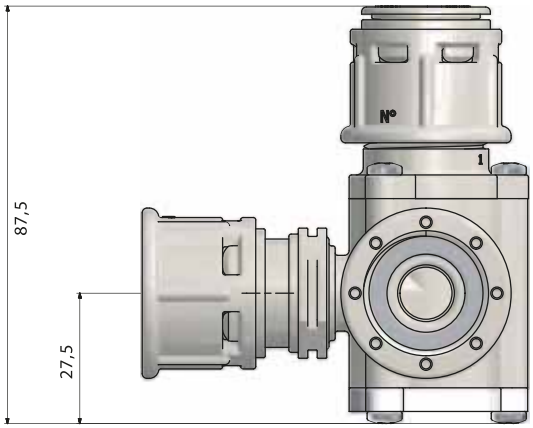
90°

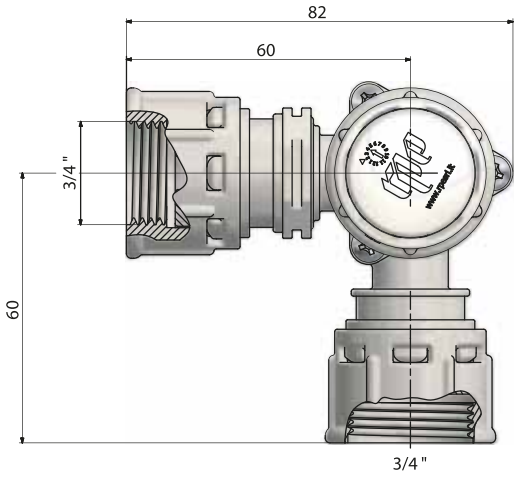
M.O.Q.:
80 pcs

IN:
3/4“ F + Ghiera
whit ring nut

OUT:
3/4“ F + Ghiera
whit ring nut

A: 40





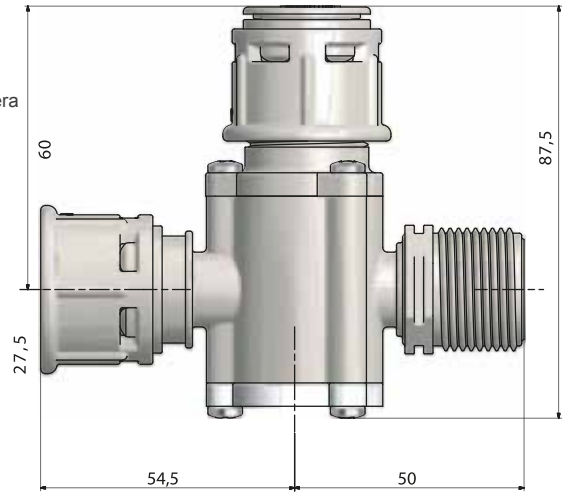
180°

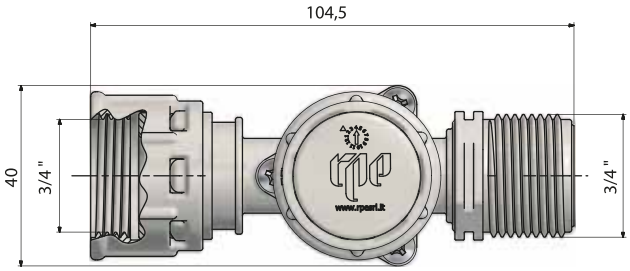
M.O.Q.:
80 pcs

IN:
3/4“ F + Ghiera
whit ring nut

OUT:
3/4“ M

A: 40





Misure in millimetri - Dimensions in millimeters

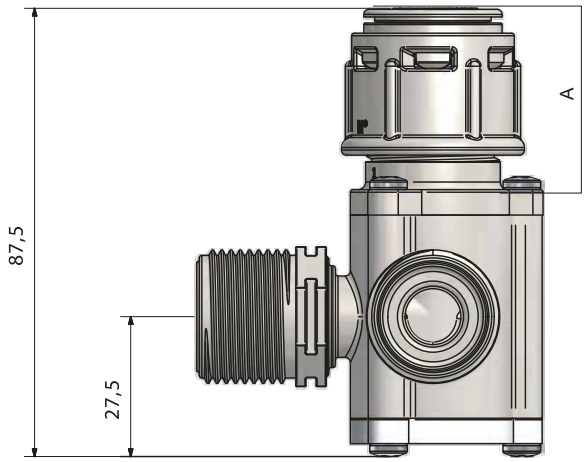
90°

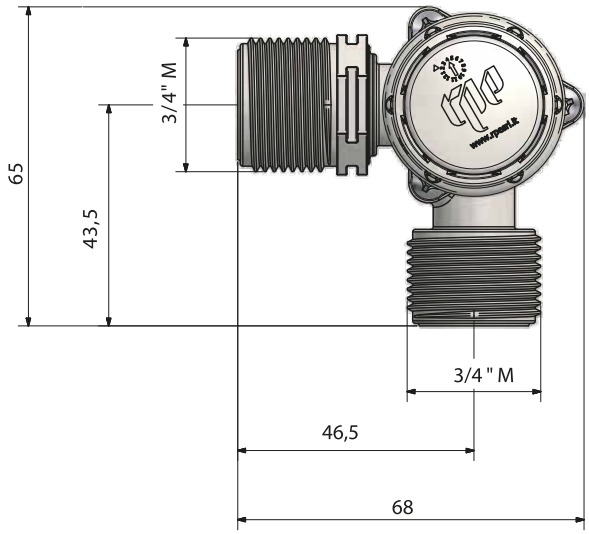
M.O.Q.:
80 pcs

IN:
3/4" M

OUT:
3/4" M

A:40





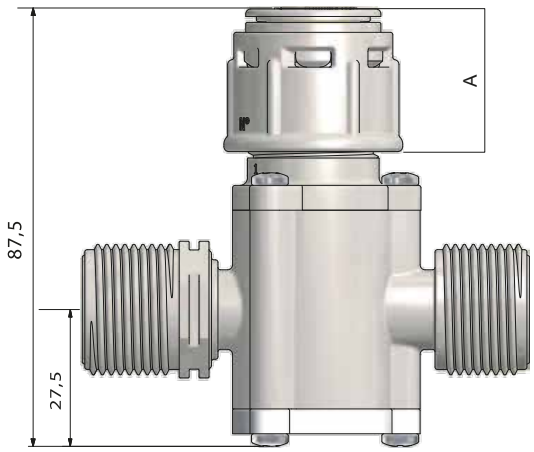
180°

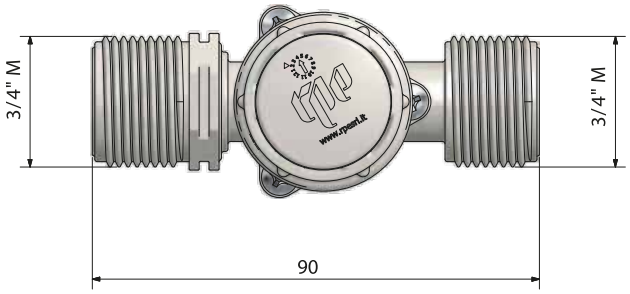
M.O.Q.:
80 pcs

IN:
3/4" M

OUT:
3/4" M

A:40





Misure in millimetri - Dimensions in millimeters

ACCESSORI / *ACCESSORIES*




	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	3/4" M	✓		✓	✓
OUT	3/4" M			✓	

Serie R - Contalitri

R Series - Flow meter

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

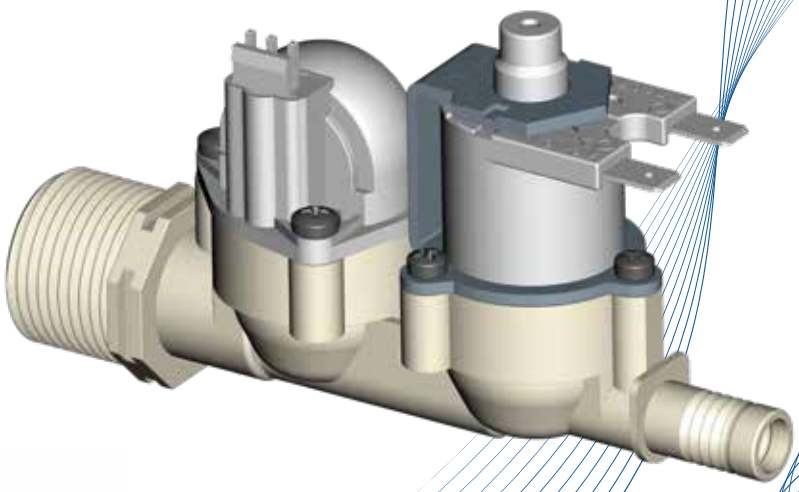
Elettrodomestici
Household appliances

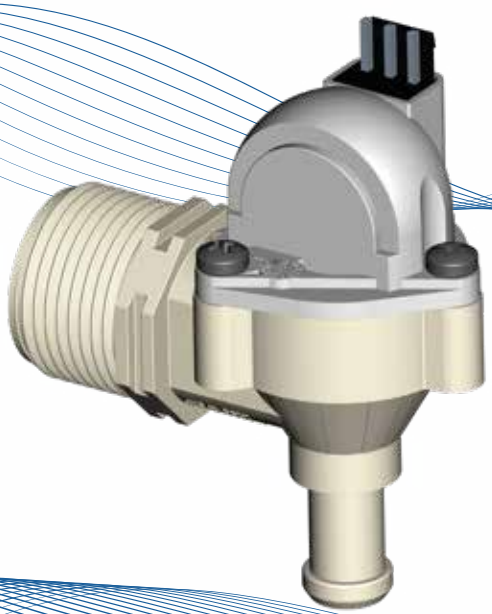
Bevande e filtrazione
Beverage & filtering

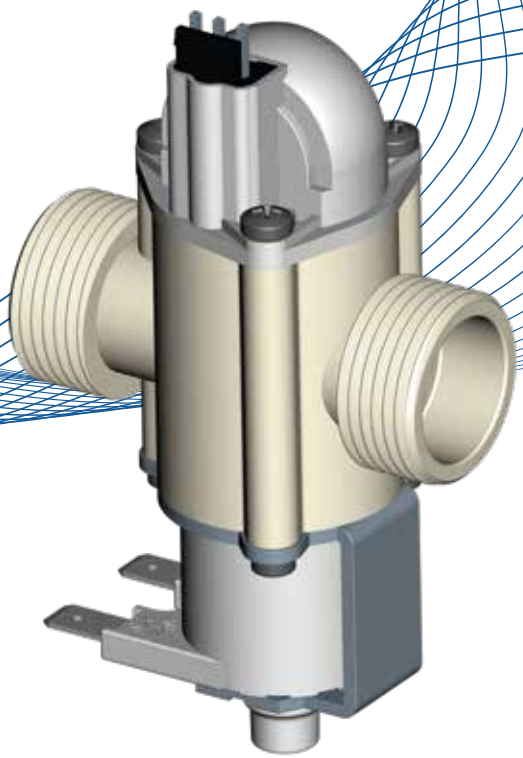
Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances







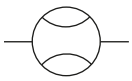
SPECIFICHE TECNICHE

- Pressione di esercizio: 0-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: 0-60°C
- Unidirezionale
- Sensore Hall o Reed

TECHNICAL SPECIFICATIONS

- *Working pressure: 0-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-60°C*
- *Unidirectional*
- *Hall or Reed sensor*

ICONE / *ICONS*



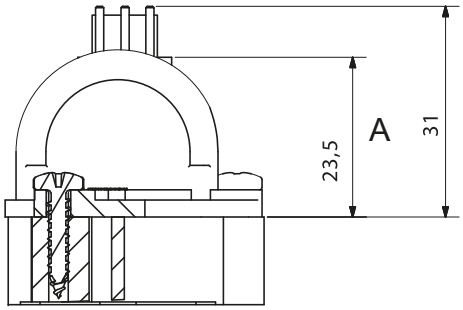
PUNTI DI FORZA / *HIGHLIGHTS*

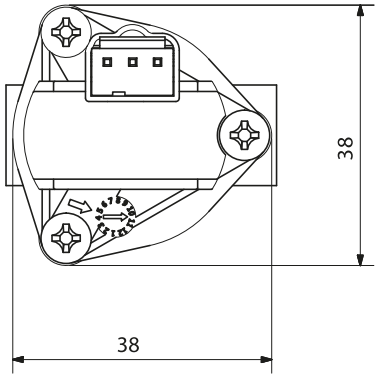
- Compatibile con tutti i corpi della Serie R / *Compatible with all R Series bodies*
- Disponibile con sensori Hall e Reed / *Available with Hall and Reed sensors*
- 4 opzioni disponibili, da 3.6 fino a 30lt/min / *4 options available, from 3.6 up to 30lt/min*
- Connessioni in uscita con pin o cavo con connettore / *Output connections with pin or cable with connector*
- Lettura costante e ripetitiva / *Constant and repetitive readings*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

CONTALITRI / *FLOW METER*





CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Montabile su	Tutta la Serie R	Can be fitted on	All the R Series
Corpo calotta	POM	Flow meter body	POM
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
Guarnizione	NBR; Silicone; LSR	Gasket	NBR; Silicone; LSR
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 - 10 bar	Working pressure	0 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 60° C	Flow direction	Tm 60° C
Direzione fluido	Unidirezionale	Fluid temperature	Unidirectional

CONNESSIONI ELETTRICHE		*ELECTRICAL CONNECTIONS*	
Connettore Hall	JST 3 poli (nero)	Hall connector	JST 3 pin (black)
Connettore Reed	JST 2 poli (bianco)	Reed connector	JST 2 pin (white)
Cavo Hall	1050; 2800 mm	Hall cable	1050; 2800 mm
	+ 3 poli connettore (rosso)		+ 3 pin connector (red)
Cavo Reed	1050; 2800 mm	Reed cable	1050; 2800 mm
	+ 2 poli connettore (bianco)		+ 2 pin connector (white)

MODELLO S	*MODEL S*
Range funzionamento: 0,5-3,6 L/min	Performance: 0,5-3,6 L/min
Impulsi / litro nominali: 2337 - 3162	Nominal pulse / liter: 2337 - 3162
Precisione: ± 5 %	Tolerance: ± 5 %
N° magneti: 2	Magnet No.: 2
Senza ByPass	NO ByPass

MODELLO M	*MODEL M*
Range funzionamento: 1-7 L/min	Performance: 1-7 L/min
Impulsi / litro nominali: 672 - 1008	Nominal pulse / liter: 672 - 1008
Precisione: ± 5 %	Accuracy: ± 5 %
N° magneti: 1	Magnet No.: 1
Senza ByPass	No ByPass

MODELLO L	*MODEL L*
Range funzionamento: 3-15 L/min	Performance: 3-15 L/min
Impulsi / litro nominali: 412 - 618	Nominal pulse / liter: 412 - 618
Precisione: ± 5 %	Tolerance: ± 5 %
N° magneti: 2	Magnet No.: 2
Con ByPass	With ByPass

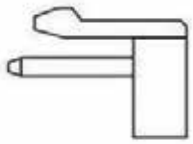
MODELLO XL	*MODEL XL*
Range funzionamento: 5-30 L/min	Performance: 5-30 L/min
Impulsi / litro nominali: 248 - 372	Nominal pulse / liter: 248 - 372
Precisione: ± 5 %	Tolerance: ± 5 %
N° magneti: 2	Magnet No.: 2
Con ByPass	With ByPass

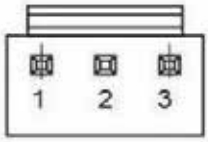
*I valori specificati devono essere considerati come valori approssimativi. Il numero di impulsi per litro può variare a seconda del mezzo e dell'installazione. Si consiglia di calibrare il numero di impulsi per litro in linea con l'installazione completa.
The values specified must be considered as approximate values. The number of pulses per litre may differ depending on medium and installation. We recommend to calibrate the number of pulses per litre in line with the complete installation.

**Valori rilevati secondo protocollo di prova RPE con Pressione di 5 bar, uscita parzializzata ad 1 l/min per il modello S, 2l/min per il modello M, 5 l/min per il modello L, 10 l/min per il modello XL.
Measured values according to RPE test protocol with 5 bar pressure, output at 1 l/min for the S model, 2l/min for the M model, 5 l/min for the L model, 10 l/min for the XL model.

Serie R - Contalitri
R Series - Flow meter

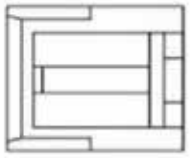
CONNESSIONI ELETTRICHE — *ELECTRICAL CONNECTIONS*

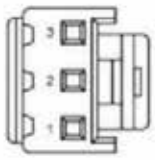




Sensore HALL	
Tipo di uscita	Collettore aperto NPN
Tensione	5 - 28 Vcc
Corrente	Massima 10 mA
Connessione	Connettore tripolare maschio (nero)
Tipo connettore	JST B3P-VH-BK (3 poli/p. 3,96)
	pin 1 = uscita
	pin 2 = negativo (-)
	pin 3 = positivo (+)

HALL sensor	
Output type	Open collector NPN
Voltage	5 - 28 Vdc
Current	Maximum 10 mA
Connection	Tripolar male connector (black)
Connector type	JST B3P-VH-BK (3 pin/p. 3,96)
	pin 1 = output
	pin 2 = negative (-)
	pin 3 = positive (+)

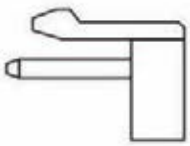


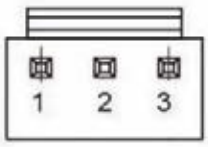


Sensore HALL	
Connessione	Cavo con connettore tripolare femmina (rosso)
Lunghezza cavo	1m / 2,8m
Tipo connettore	JST VHR-3N-R (3 poli/p. 3,96)
	pin 1 = uscita (cavo bianco)
	pin 2 = positivo (+) (cavo marrone)
	pin 3 = negativo (-) (cavo verde)

HALL sensor	
Connection	Cable with tripolar female connector (red)
Cable length	1m / 2,8m
Connector type	JST VHR-3N-R (3 pin/p. 3,96)
	pin 1 = output (white wire)
	pin 2 = positive (+) (brown wire)
	pin 3 = negative (-) (green wire)

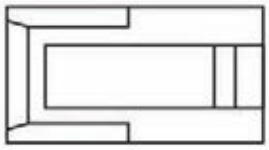
CONNESSIONI ELETTRICHE — *ELECTRICAL CONNECTIONS*

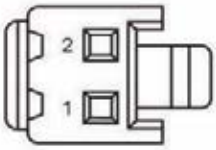




Sensore REED	
Tipo di uscita	Contatto NA
Tensione	5 - 28 Vcc
Corrente	Massima 500 mA
Connessione	Connettore tripolare maschio (bianco)
Tipo connettore	JST B3P-VH (3poli/p.3,96)
	pin 1 = contatto
	pin 2 = libero (nc)
	pin 3 = contatto

REED sensor	
Output type	Contact NO
Voltage	5 - 28 Vdc
Current	Maximum 500 mA
Connection	Tripolar male connector (white)
Connector type	JST B3P-VH (3 pin/p. 3,96)
	pin 1 = contact
	pin 2 = free (nc)
	pin 3 = contact

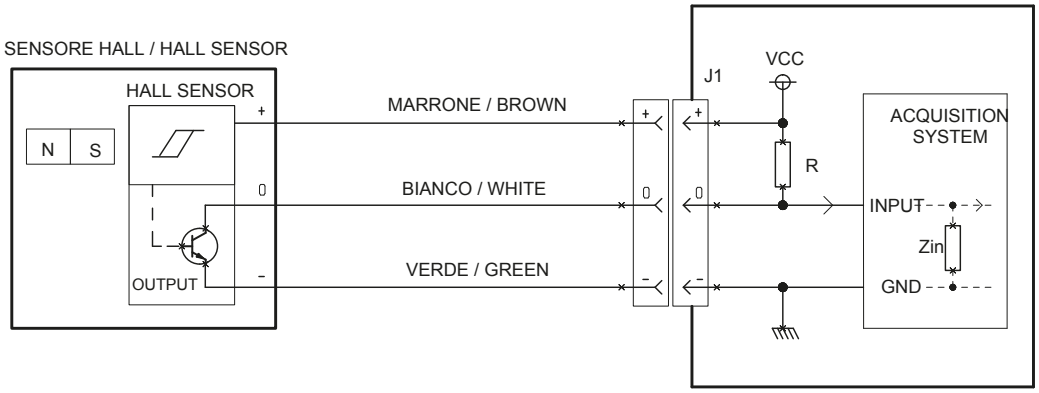




Sensore REED	
Connessione	Cavo con connettore bipolare femmina (bianco)
Lunghezza cavo	1m / 2,8m
Tipo connettore	JST VHR-2N (2 poli/p. 3,96)
	pin 1 = contatto (cavo marrone)
	pin 2 = contatto (cavo bianco)

REED sensor	
Connection	Cable with bipolar female connector (white)
Cable length	1m / 2,8m
Connector type	JST VHR-2N (2 pin/p. 3,96)
	pin 1 = contact (brown wire)
	pin 2 = contact (white wire)

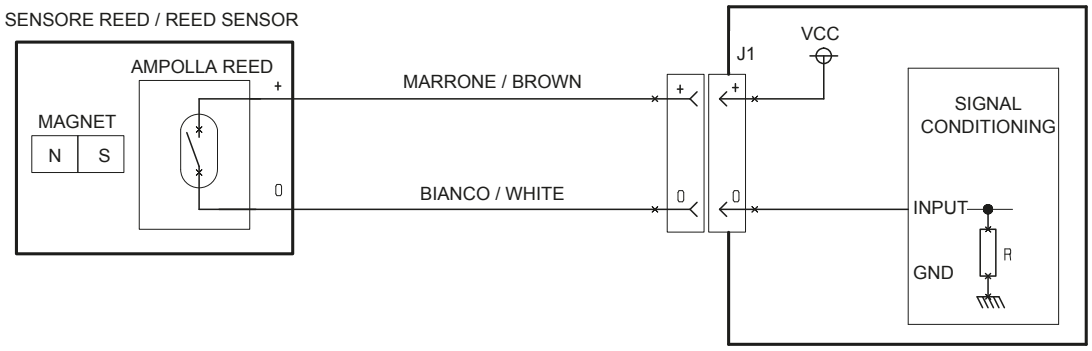
SENSORE HALL - CAVI / *HALL SENSOR - CABLES*



Tipo di uscita: Collettore aperto NPN	
Output type: NPN open collector	
Corrente di uscita: Max 10 mA	
Output current: Max 10 mA	
Corrente di carico:	
VCE di saturazione: 0,4 V	
VCE saturation: 0.4V	
Outlet type: Open collector NPN	
Outlet type: Open collector NPN	
Outlet current: Max 10 mA	
Outlet current: Max 10 mA	

Alimentazione VCC	5 - 28 VCC
VDC power supply	
Corrente di carico	0,05 mA @ 3 mA (tipico)
Load Current	0.05mA @ 3mA (typical)
Resistenza di carico: R =	
Load Resistance: R =	4,7 Kohm / 0,25 W (tipico A 5 VCC)
Resistenza di carico: R =	4.7 Kohm / 0.25 W (typical At 5 VDC)
Load Resistance: R =	10 Kohm / 0,25 W (tipico A 28 VCC)
Resistenza di carico: R =	10 Kohm / 0.25 W (Typical At 28 VDC)
Load Resistance: R =	100 Kohm / 0,25 W (Max)

SENSORE REED - CAVI / *REED SENSOR - CABLES*



Tipo di uscita: Switch libero da tensione	
Output type: Voltage free switch	
Corrente di uscita: Max 10 mA	
Output current: Max 10 mA	
Tipo di uscita: interruttore libero per tensione IN	
Outlet type: Free switch by voltage	
Outlet current: Max 10 mA	
Outlet current: Max 10 mA	

Alimentazione VCC	5 - 28 VCC
VDC power supply	
Corrente di carico	0,05 mA @ 3 mA (tipico)
Load Current	0.05mA @ 3mA (typical)
Resistenza di carico: R =	
Load Resistance: R =	4,7 Kohm / 0,25 W (tipico A 5 VCC)
Resistenza di carico: R =	4.7 Kohm / 0.25 W (typical At 5 VDC)
Load Resistance: R =	10 Kohm / 0,25 W (tipico A 28 VCC)
Resistenza di carico: R =	10 Kohm / 0.25 W (Typical At 28 VDC)
Load Resistance: R =	100 Kohm / 0,25 W (Max)

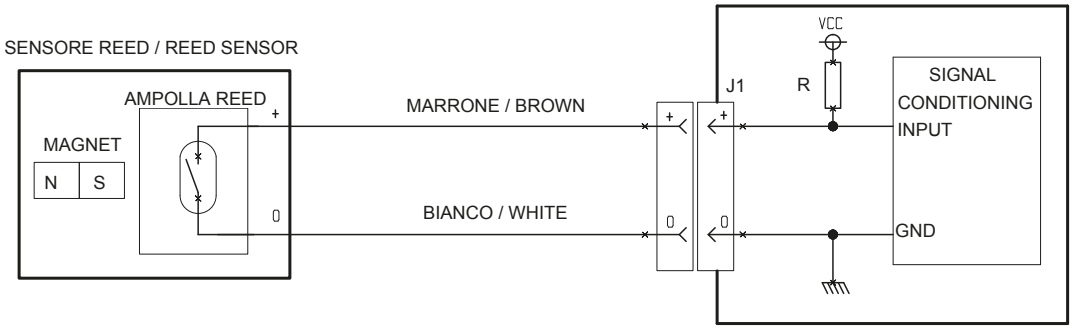
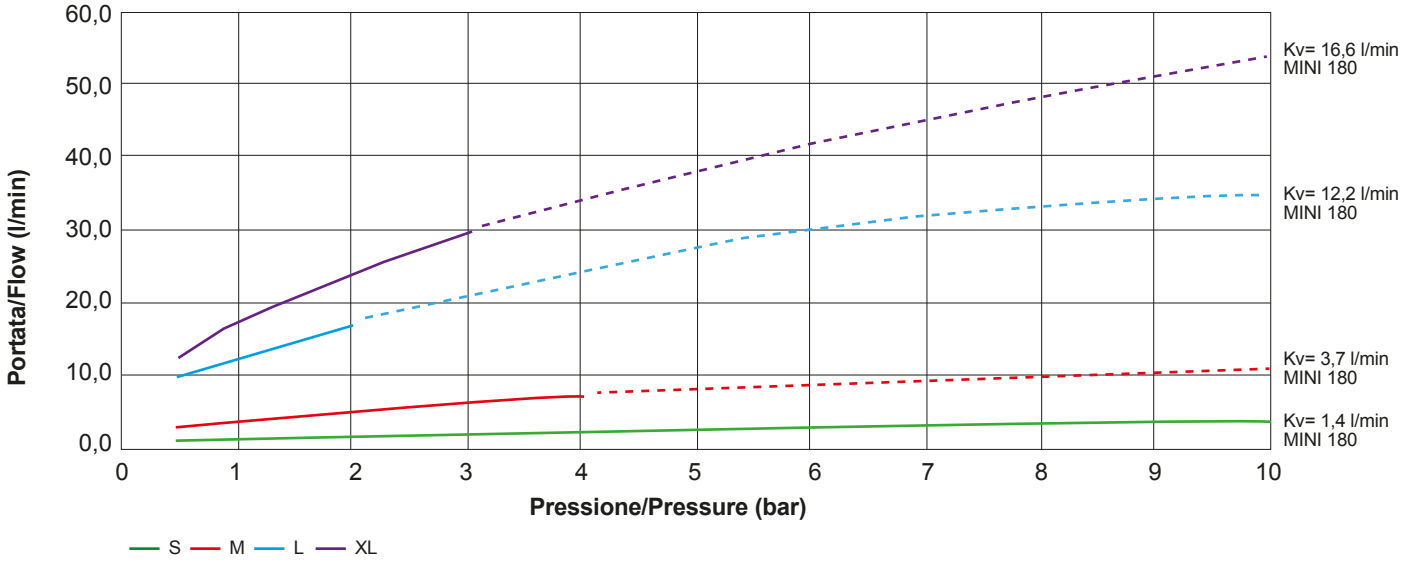
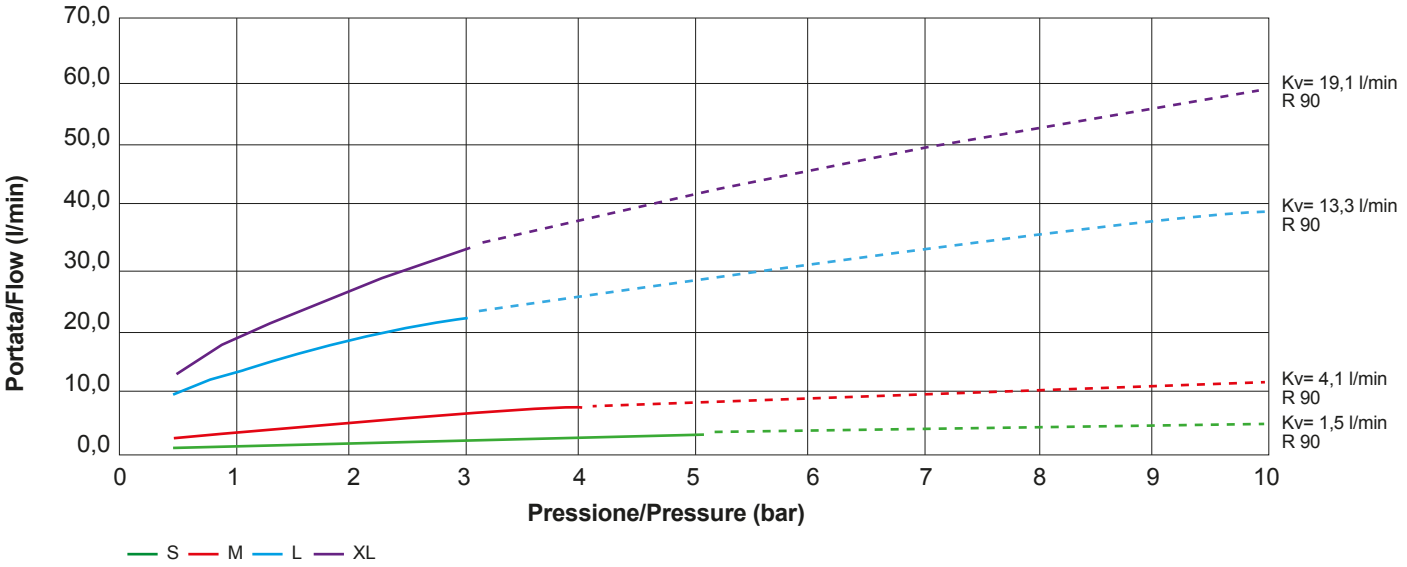


GRAFICO PORTATE / *FLOW RATES CHART*





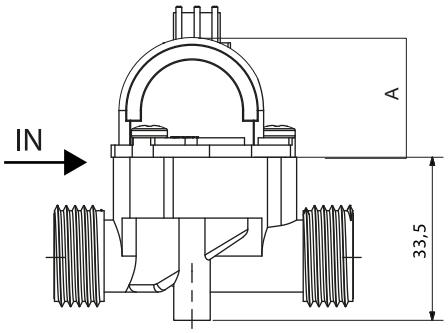
Misure in millimetri - Dimensions in millimeters

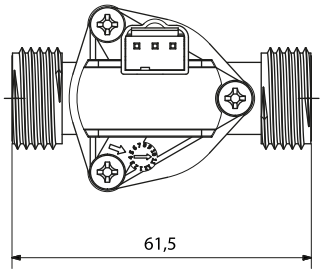
SERIE R MINI MASCHIO / *R SERIES MINI MALE*

M.O.Q.:
160 pcs

IN = OUT:
1/4" M
3/8" M
1/2" M
3/4" M

A:23,5



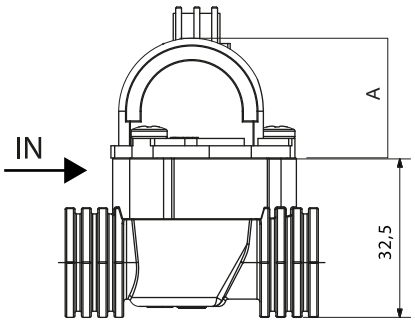


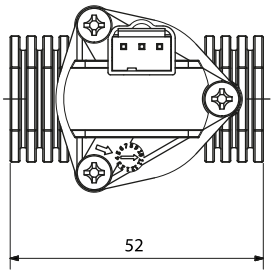
SERIE R MINI FEMMINA / *R SERIES MINI FEMALE*

M.O.Q.:
160 pcs

IN = OUT:
1/8" M
1/4" M
3/8" M
1/2" M

A:23,5





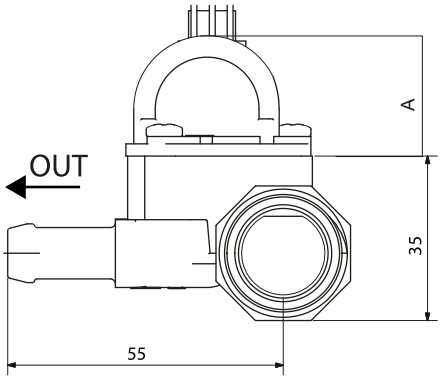
SERIE R MODULARE / *R SERIES MODULAR*

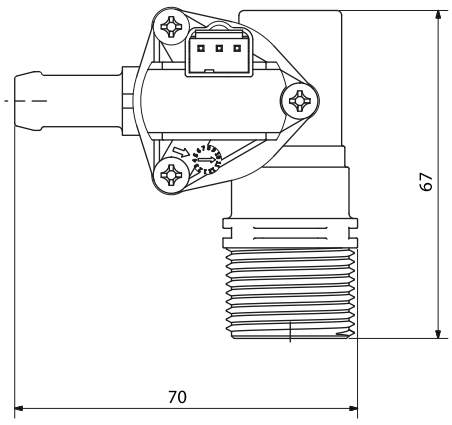
M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PF 10 mm

A:23,5





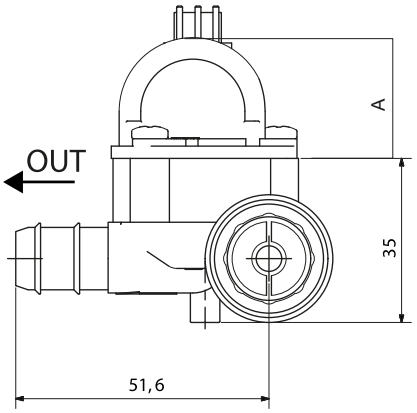
SERIE R COMPONIBILE / *R SERIES COMPONIBLE*

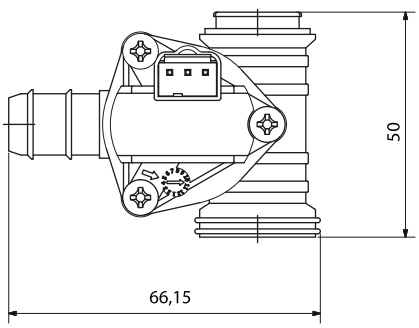
M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PG 10 mm
PG 13 mm
Codolo
10 mm
PF 1/4"
PG 6 mm
PG 8 mm
PG 10 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

A:23,5





Misure in millimetri - Dimensions in millimeters

Serie R - Contalitri

R Series - Flow meter

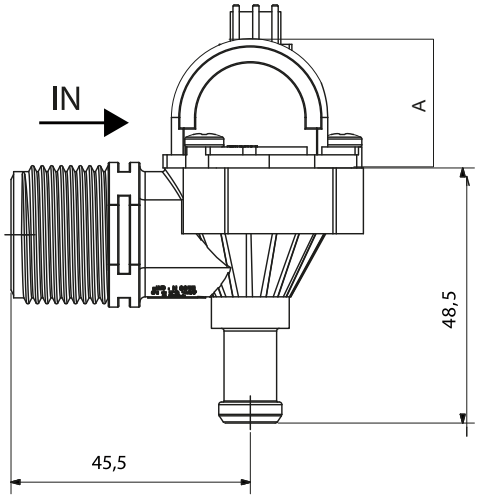
SERIE R 90° / R SERIES 90°

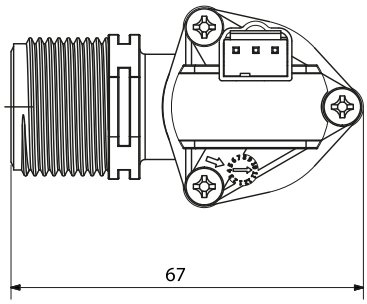
M.O.Q.:
120 pcs

IN
1/2" M
3/4" M
3/4" M GHT

OUT
PG 10 mm
PG 13 mm
Codolo
10 mm
3/8" M
1/2" M

A:23,5





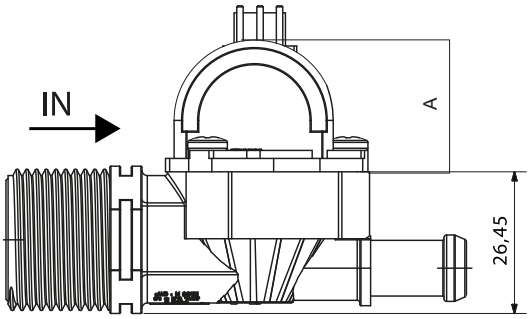
SERIE R 180° / R SERIES 180°

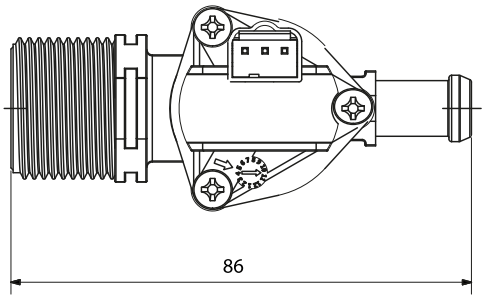
M.O.Q.:
160 pcs

IN
3/4" M
PF 6 mm
PF 8 mm
PF 10 mm

OUT
PG 10 mm
PG 13 mm
Codolo
10 mm
PF 1/4"
1/2" M
PG 6 mm
PG 8 mm
PG 10 mm
PG 12 mm
1/4" M
3/8" M
1/2" M
3/4" M

A:23,5





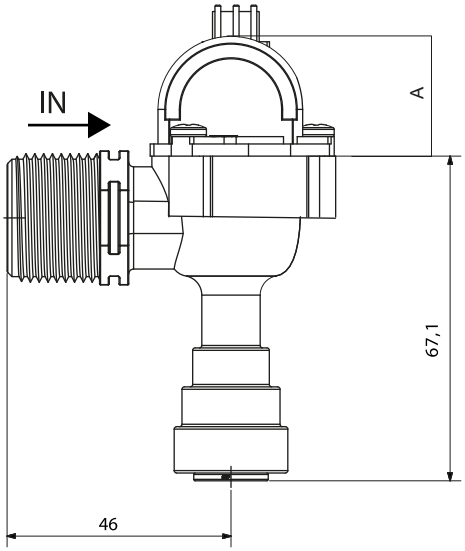
SERIE R 90° PF / *R SERIES 90° PF*

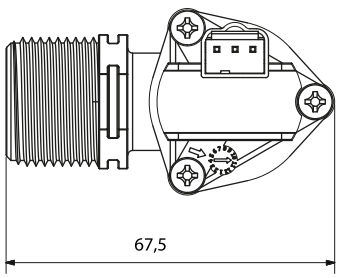
M.O.Q.:
160 pcs

IN
3/4" M

OUT
PF 6 mm
PF 8 mm
PF 10 mm
PF 12 mm

A:23,5





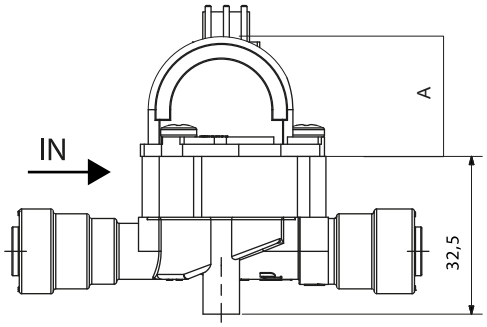
SERIE R MINI PF / *R SERIES MINI PF*

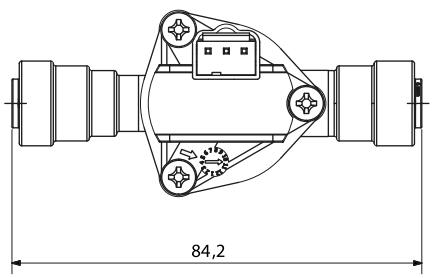
M.O.Q.:
160 pcs

IN/OUT

3/4" M
3/8" M
1/2" M
3/4" M
1/8" M
1/4" M
3/8" M
1/2" M
PG 10 mm
PF 1/4"
PF 3/8"
PF 6 mm
PF 8 mm
PF 10 mm
PF 15 mm

A:23,5





Misure in millimetri - Dimensions in millimeters

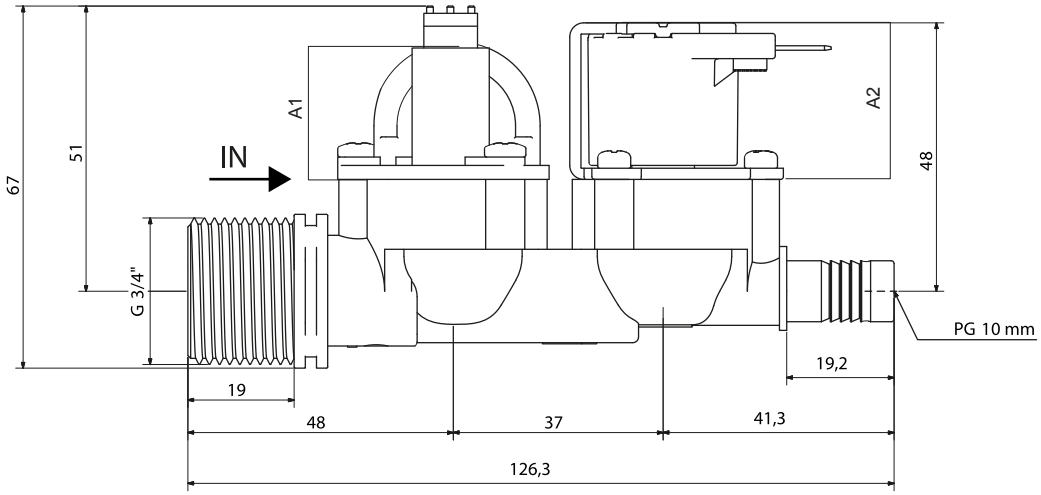
SERIE R DUAL CONTALITRI / *SERIES DUAL FLOW METER*

M.O.Q.:
80 pcs

IN
3/4 " M

OUT
PG 10 mm

A1: 23,5
A2: 32



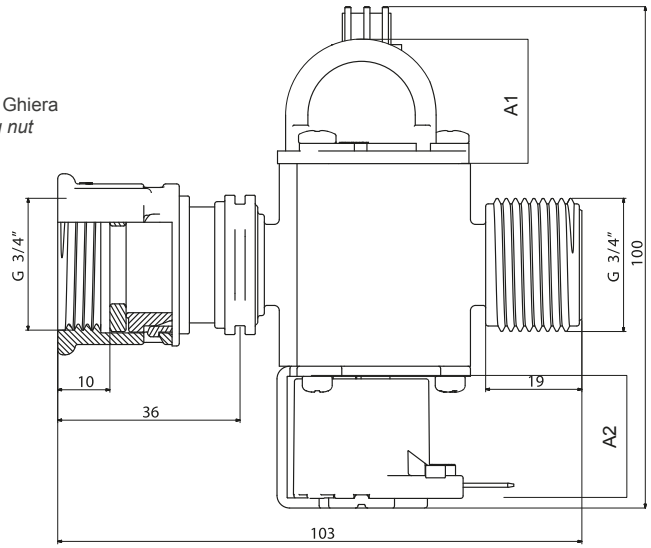
SERIE R DUAL CONTALITRI R FM
SERIES R DUAL FLOW METER FM

M.O.Q.:
80 pcs

IN
3/4" F + Ghiera
whit ring nut

OUT
3/4" M

A1:23,5
A2:32



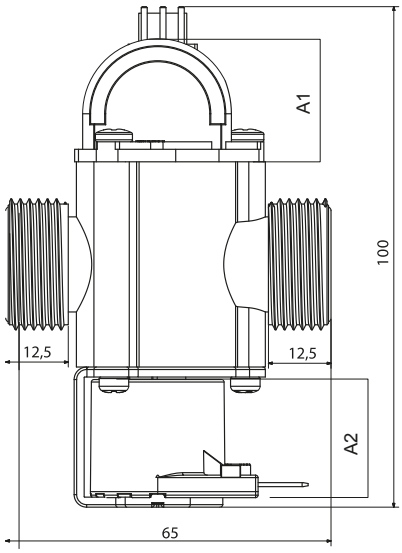
SERIE R DUAL CONTALITRI R
SERIES R DUAL FLOW METER

M.O.Q.:
80 pcs

IN
3/4" M BSPP

OUT
3/4" M BSPP

A1:23,5
A2:32



Serie R - Accessori

R Series - Accessories

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

Elettrodomestici
Household appliances

Bevande e filtrazione
Beverage & filtering

Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances

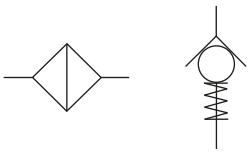
SPECIFICHE TECNICHE

- Pressione di esercizio: 0-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: 0-60°C

TECHNICAL SPECIFICATIONS

- *Working pressure: 0-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-60°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di accessori che completano la Serie R:
  Wide range of accessories that complete the Series:
- Regolatori in ingresso e Riduttori di portata in uscita / *Inlet regulators and Outlet flow reducers*
- Filtri / *Filters*
- Check valve / *Check valves*
- Staffe / *Brackets*

CERTIFICAZIONI / *CERTIFICATION*

CE

SERIE R - REGOLATORI DI FLUSSO ENTRATA / *R SERIES - INLET FOW REGULATORS*

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Montabile su	Tutte le connessioni 3/4" M	Can be fitted on	All 3/4" M connections
Struttura	POM	Holde	POM
Compensatore	NBR / LSR	Flow adjuster	NBR / LSR

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 - 10 bar	Working pressure	0 - 10 bar
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

Colore Color	Portata Flow rate L/min	Portata Flow rate GAL/min	Tolleranza Tolerance	Compensatore in LSR Flow adjuster in LSR	M.O.Q. (pcs)
Giallo / Yellow	4,5 L/min	1.19 GAL/min	± 10%		1000
Blu / Blue	5 L/min	1.32 GAL/min	± 7%	✓	1000
Rosso / Red	6 L/min	1.59 GAL/min	± 10%		1000
Marrone / Brown	7 L/min	1.85 GAL/min	± 10%		1000
Bianco / White	10 L/min	2.64 GAL/min	± 10%		1000
Nero / Black	12 L/min	3.17 GAL/min	± 10%		1000
Verde / Green	15 L/min	3.59 GAL/min	± 10%	✓	1000
Grigio / Grey	19,5 L/min	5.15 GAL/min	± 10%		1000

*Per la determinazione della portata dei regolatori di flusso in entrata e dei riduttori di portata in uscita si considera la media dei valori riscontrati in tre cicli completi. Per ciclo completo si intende 2 rampe da 1 a 10 bar in salita e discesa, con incrementi di 1 bar e relativa misurazione.
For the determination of the flow rate of the inlet flow regulators and outlet flow restrictors, the average of the values found in three complete cycle shall be considered. Complete cycle means 2 ramps from 1 to 10 bar in ascent and descent, with increments of 1 bar and relative measurement.

DETTAGLIO SEDE REGOLATORE / *REGULATOR SEAT DETAIL*

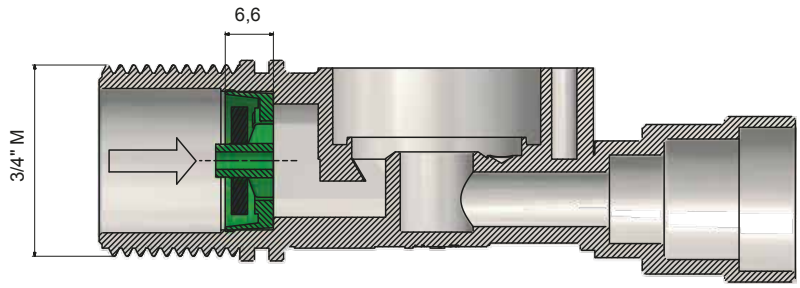
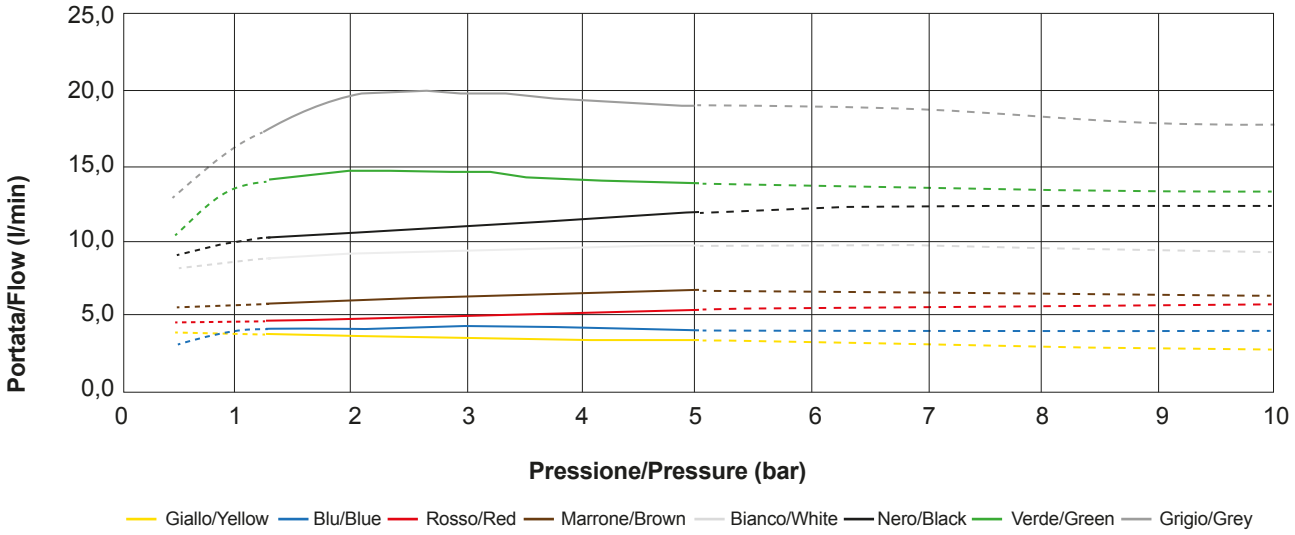


GRAFICO PORTATE / *FLOW RATES CHART (Tu 60°C - Tm 25°C)*



SERIE R - RIDUTTORI DI PORTATA IN USCITA / *R SERIES - OUTLET FLOW RESTRICTORS*

CARATTERISTICHE FISICHE / *PHYSICAL SPECIFICATIONS*

Montabile su	Connessioni 8 - 10 mm	Can be fitted on	8 - 10 mm connections
Struttura	POM	Holde	POM
Compensatore	NBR / LSR	Flow adjuster	NBR / LSR

CARATTERISTICHE DI LAVORO / *WORKING SPECIFICATIONS*

Pressione di esercizio	0 - 10 bar	Working pressure	0 - 10 bar
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

Colore Color	Portata Flow rate L/min	Portata Flow rate GAL/min	Tolleranza * Tolerance *	Compensatore in LSR Flow adjuster in LSR	M.O.Q. (pcs)
Beige	0,08 L/min	0.02 GAL/min	± 0,05 L/min	✓	1000
Marrone / Brown	0,10 L/min	0.03 GAL/min	± 0,05 L/min		1000
Rosa / Pink	0,15 L/min	0.04 GAL/min	± 0,05 L/min	✓	1000
Rosso / Red	0,25 L/min	0.07 GAL/min	± 0,05 L/min	✓	1000
Verde / Green	0,40 L/min	0.11 GAL/min	± 0,05 L/min	✓	1000
Lime	0,50 L/min	0.13 GAL/min	± 10%	✓	1000
Grigio / Grey	0,60 L/min	0.16 GAL/min	± 10%	✓	1000
Ciano / Cyan	0,90 L/min	0.24 GAL/min	± 10%		1000
Bianco / White	1,10 L/min	0.29 GAL/min	± 10%		1000
Grigio Scuro / Dark Grey	1,40 L/min	0.37 GAL/min	± 10%		1000
Giallo / Yellow	1,70 L/min	0.45 GAL/min	± 10%		1000
Viola / Violet	2,15 L/min	0.57 GAL/min	± 10%		1000
Nero / Black	2,70 L/min	0.71 GAL/min	± 10%		1000
Blu / Blue	5,50 L/min	1.45 GAL/min	± 10%		1000
Arancione / Orange	8,40 L/min	2.22 GAL/min	± 10%		1000

* Tolleranza da valutare in base all'effettivo impiego.
Tolerance to be evaluated based on actual use.

** Per le portate vedere * a pagina 50.
** For flow rate see * at page 50.

DETTAGLIO SEDE REGOLATORE / *REGULATOR SEAT DETAIL*

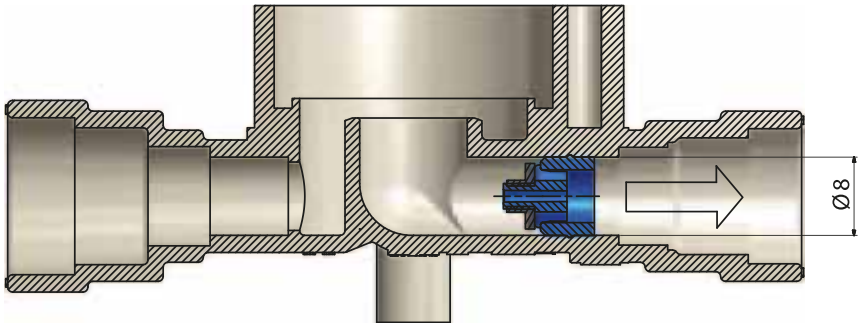


GRAFICO PORTATE / *FLOW RATES CHART (Tu 60°C - Tm 25°C)*

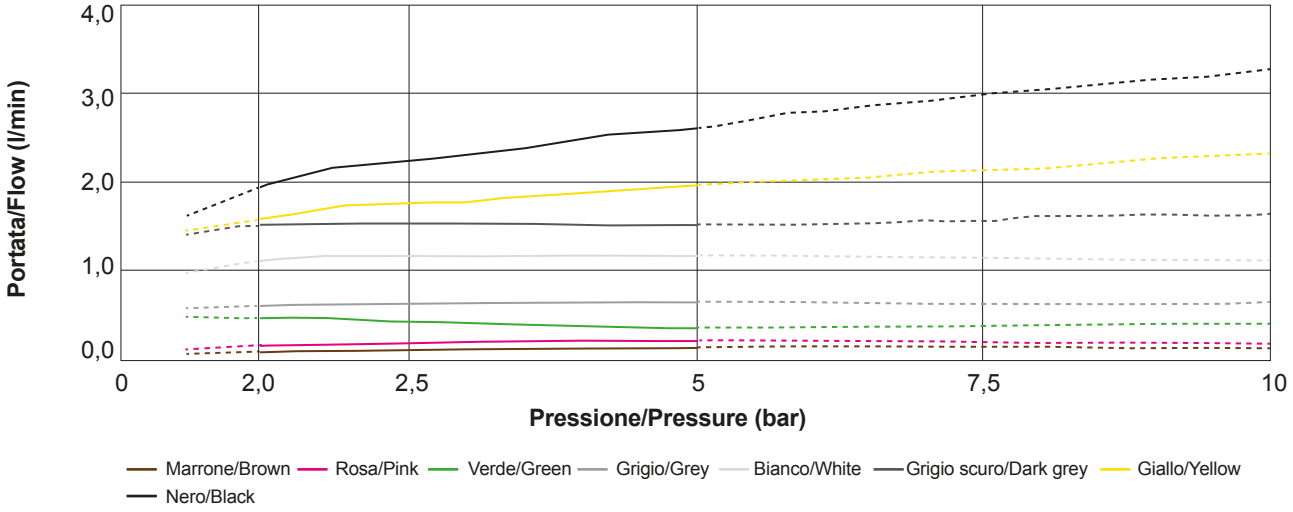
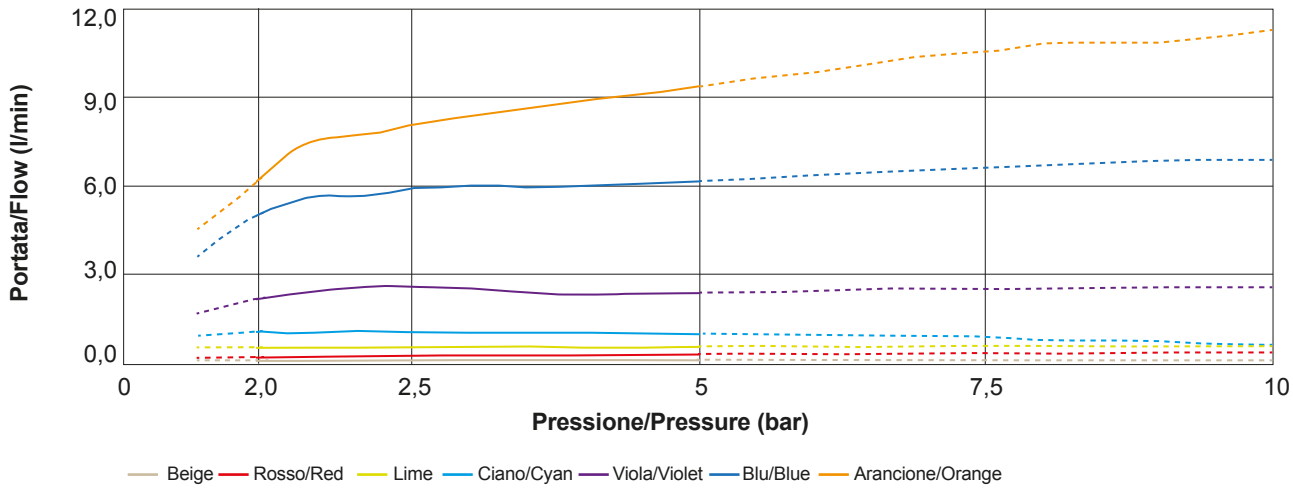


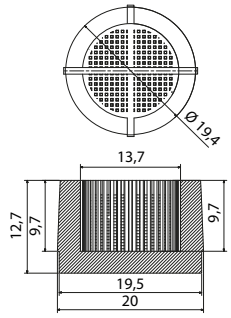
GRAFICO PORTATE / *FLOW RATES CHART (Tu 60°C - Tm 25°C)*



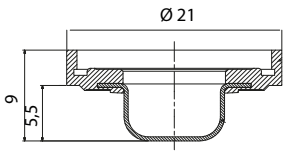
*Per la determinazione della portata dei regolatori di flusso in entrata e dei riduttori di portata in uscita si considera la media dei valori riscontrati in tre cicli completi. Per ciclo completo si intende 2 rampe da 1 a 10 bar in salita e discesa, con incrementi di 1 bar e relativa misurazione.
For the determination of the flow rate of the inlet flow regulators and outlet flow restrictors, the average of the values found in a three complete cycle shall be considered. Complete cycle means 2 ramps from 1 to 10 bar in ascent and descent, with increments of 1 bar and relative measurement.

FILTRI INGRESSO / *INLET FILTER*

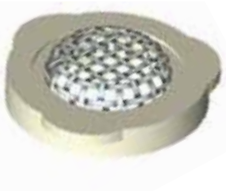
CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Materiale filtro	Hostaform / Acciaio inox TF9WCS / TF8WCS / LSR	Filter Material	Hostaform / Acciaio inox TF9WCS / TF8WCS / LSR
Materiale trama filtrante	Acciaio Inox	Filter seals material	Stainless Steel
Grado di filtraggio	40 – 55 Mesh	Texture filtering	40 – 55 Mesh

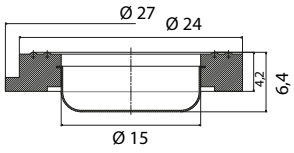


MOD.	MATERIALE MATERIAL	TRAMAM FILTRANTE TEXTURE FILTERING	M.O.Q. (pcs)
HC1801000	HOSTAFORM	50 mesh	100

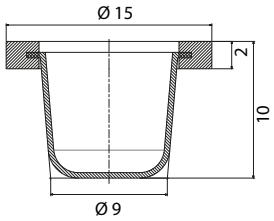


MOD.	MATERIALE MATERIAL	TRAMAM FILTRANTE TEXTURE FILTERING	M.O.Q. (pcs)
HC1810000	ACCIAIO INOX e TF9WCS / STAINLESS STEEL and TF9WCS	55 mesh	100

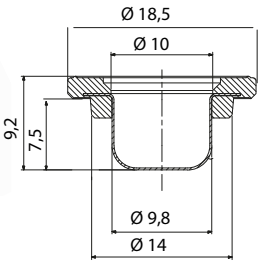




MOD.	MATERIALE MATERIAL	TRAMAM FILTRANTE TEXTURE FILTERING	M.O.Q. (pcs)
HC1813000	ACCIAIO INOX e TF8WCS / STAINLESS STEEL and TF8WCS	50 mesh	100



MOD.	MATERIALE MATERIAL	TRAMAM FILTRANTE TEXTURE FILTERING	M.O.Q. (pcs)
HC1814000	ACCIAIO INOX e LSR / STAINLESS STEEL and LSR	40 mesh	100



MOD.	MATERIALE MATERIAL	TRAMAM FILTRANTE TEXTURE FILTERING	M.O.Q. (pcs)
HC1818000	ACCIAIO INOX e TF9WCS / STAINLESS STEEL and TF9WCS	55 mesh	100

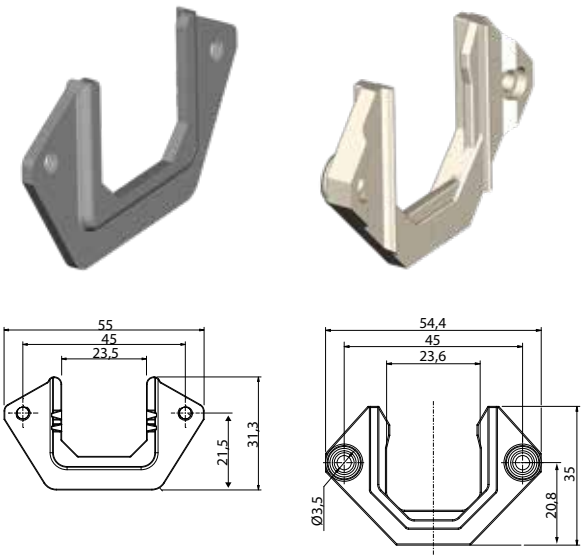
VALVOLA DI NON RITORNO / *CHECK VALVE*

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	POM / PPO - GF	Valve body	POM / PPO - GF
Pistone	POM / PPO - GF	Plunge	POM / PPO - GF
Puntalino	NBR / SILICONE / PPO - GF	Plunger stelling	NBR / SILICONE / PPO - GF
O-ring	NBR / SILICONE / EPDM	O-ring	NBR / SILICONE / EPDM

MOD.	SERIE SERIES	CONNESSIONE CONNECTION	M.O.Q. (pcs)
HC2526000	SERIE R R SERIES	¾"	100
HC2526H00	SERIE R R SERIES	¾"	100
HC2527000	SERIE R - SERIE MINI R SERIES - MINI SERIES	PF	100
HC2518000	SERIE RC RC SERIES	¾"	100
HE250D00G	SERIE RU RU SERIES	Check valve + adattatore per serie R Universale Check valve + fitting for R series Universal	100

STAFFE DI FISSAGGIO / *FIXING BRACKETS*

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Materiale	Plastica - Ferro	Material	Plastic - Iron
Disponibile per	Serie R	Available fo	R Series



MOD.	MATERIALE MATERIA	DISPONIBILE PER AVAILABLE FOR	M.O.Q. (pcs)
HC1302000	FERRO IRON	SERIE R R SERIES	100
HC1302100	PLATICA PLASTIC	SERIE R R SERIES	100

Serie R
R Series

Applicazioni / *Applications*

Vapore & caffè
Coffee & Steam

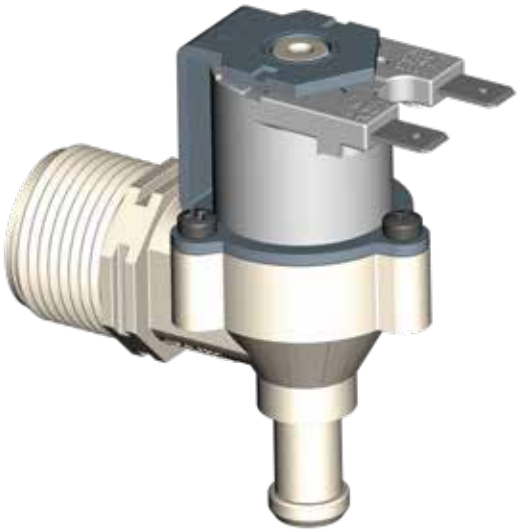
Elettrodomestici
Household appliances

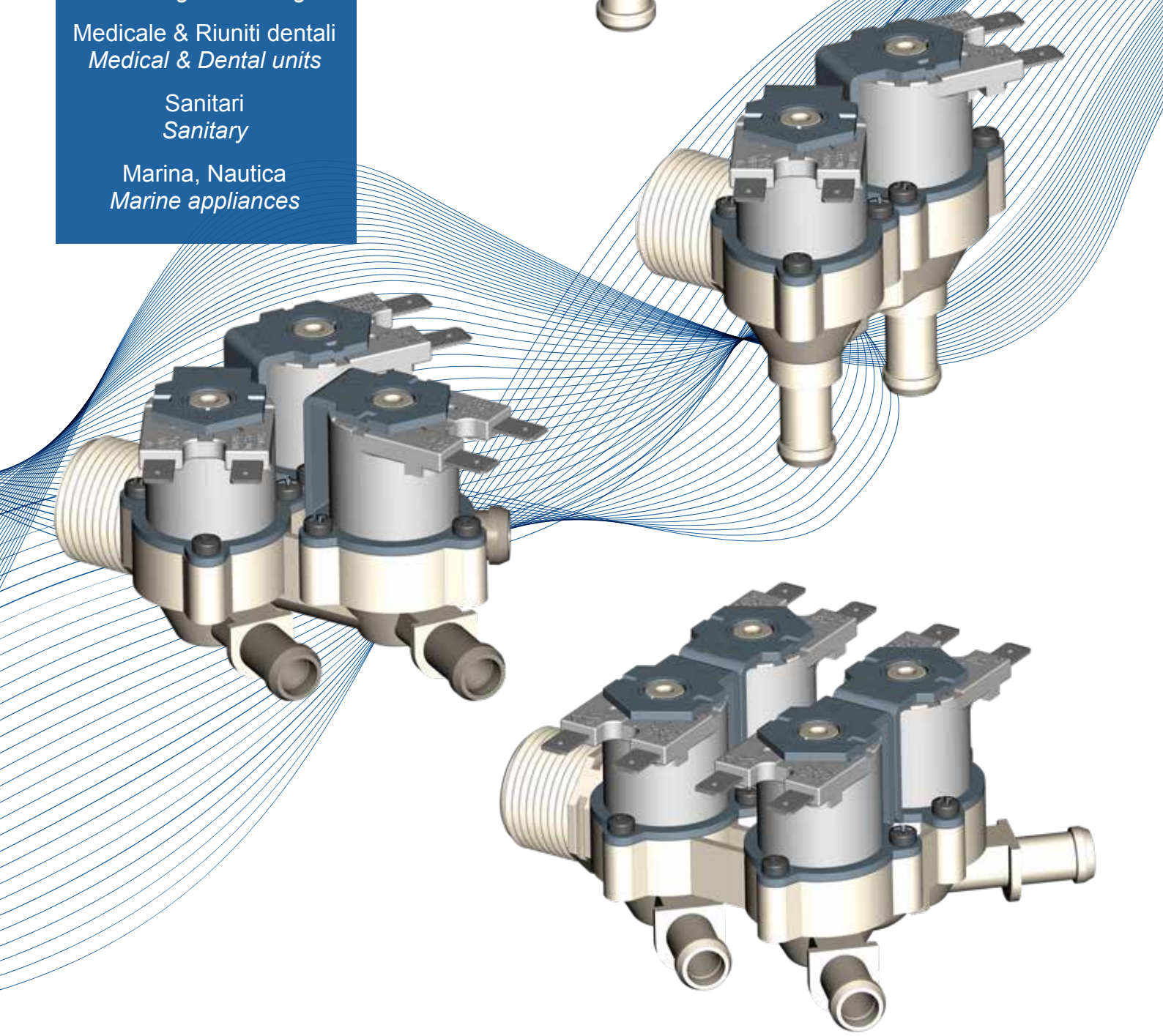
Bevande e filtrazione
Beverage & filtering

Medicale & Riuniti dentali
Medical & Dental units

Sanitari
Sanitary

Marina, Nautica
Marine appliances





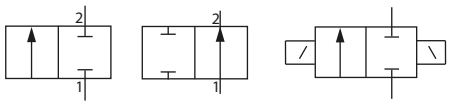
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: NBR/LSR EPDM
- Nucleo: Acciaio Inox
- Pressione di esercizio: 0,2-10 bar
- Temperatura ambiente: Tu 60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)
- Diametro nominale: DN 8mm - DN 10mm

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR/LSR EPDM*
- *Core: Stainless Steel*
- *Working pressure: 0,2-10 bar*
- *Room temperature: Tu 60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)*
- *Orifice: DN 8mm - DN 10mm*

ICONE / *CONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni (regolatori, riduttori, cavi…)
  Wide range of customisations (regulators, reducers, cables…)
- Disponibilità di corpi con geometria a 90° o 180° / *Available with 90° or 180° geometry*
- Valvole certificate per contatto con alimenti / *Cartified valves for food contac*
- Versione con filetto GHT / *GHT thread version*
- Disponibili versioni certificare UL per mercato Nord Americano
  UL certified versions for the North American market available

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

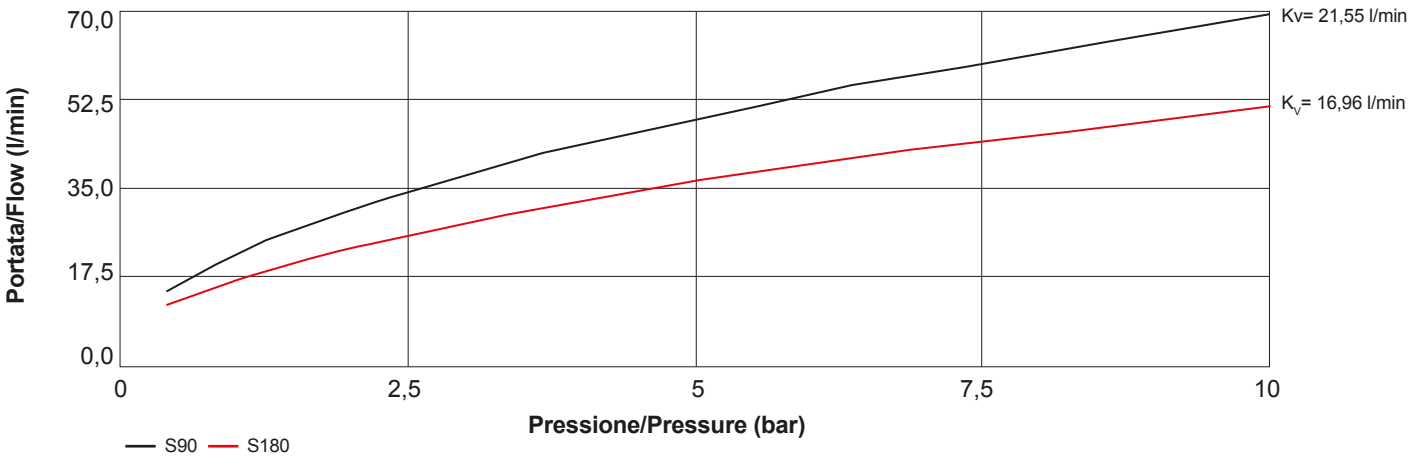
Serie R
R Series

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% FV
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Bobine	Classe F (155˚)	Coils	F class (155˚)
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - Tm 60° C - ED 100%	Fluid temperature	Tm 25° C - Tm 60° C - ED 100%
	Tm 90° C (3 ON - 5 OFF)		Tm 90° C (3 ON - 5 OFF)
Diametro nominale	DN 10 mm	Orifice	DN 10 mm
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Kv 90°	Singola 21,55 L/min	Kv 90°	Single 21,55 L/min
	Doppia 13,00 L/min		Double 13,00 L/min
	Tripla 16,31 L/min		Triple 16,31 L/min
	Quadrupla 13,34 L/min		Quadruple 13,34 L/min
Kv 180°	Singola 16,96 L/min	Kv 180°	Single 16,96 L/min
	Doppia 12,26 L/min		Double 12,26 L/min
	Tripla 15,19 L/min		Triple 15,19 L/min
	Quadrupla 12,41 L/min		Quadruple 12,41 L/min

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm (solo per la Serie R Singola)	Unipolar wires max 5000 mm (only for R Series Single)
Cavi bipolari max 5000 mm (solo per la Serie R Singola)	Bipolar wires max 5000 mm (only for R Series Single)

GRAFICO PORTATE SERIE R SEMPLICE (Ø10 MM) / *FLOW RATES CHART R SERIES SINGLE (Ø10 MM)*



90°

Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
181	G 3/4" M	PG 6,5 mm	10 mm		✓	✓	✓	✓		
151	G 3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
152	G 3/4" M	PG 13 mm	8 mm		✓	✓	✓	✓	✓	✓
155	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		
190	G 3/4" M	G 3/8" M	10 mm		✓	✓	✓	✓	✓	✓
161	G 3/4" M	Codolo 10 mm	10 mm		✓	✓	✓	✓	✓	✓
183	G 3/4" M	PF 6 mm	10 mm		✓	✓	✓	✓	✓	✓
189	G 3/4" M	PF 8 mm	10 mm		✓	✓	✓	✓	✓	✓
180	G 3/4" M	PF 10 mm	10 mm		✓	✓	✓	✓	✓	✓
185	G 3/4" M	PF 12 mm	10 mm		✓	✓	✓	✓	✓	✓
191	1/2" M	1/2" M	10 mm		✓			✓	✓	✓

180°

Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
153	G 3/4" M	PG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
154	G 3/4" M	PG 13 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
156	G 3/4" M	G 1/4" M	10 mm	✓	✓	✓	✓	✓	✓	✓
157	G 3/4" M	G 3/4" M	10 mm	✓	✓	✓	✓	✓		
158	G 3/4" M	Codolo 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
162	G 3/4" M	PF 1/4"	10 mm	✓	✓	✓	✓	✓	✓	✓
163	G 3/4" M	PF 6 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
159	G 3/4" M	PF 8 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
160	G 3/4" M	PF 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
164	G 3/4" M	PF 12 mm	10 mm	✓	✓	✓	✓	✓		
179	3/8" M	codolo 6 mm	10 mm				✓			
193	PF 6 mm	3/8" M	10 mm				✓		✓	✓
165	PF 8 mm	PF 10 mm	10 mm				✓		✓	✓
178	PF 10 mm	PF 6 mm	10 mm				✓		✓	✓
174	PF 10 mm	PF 8 mm	10 mm				✓		✓	✓
173	3/4" M	PF 1/4"	10 mm	✓	✓	✓		✓	✓	✓

Legenda / Key PG = Portagomma / Hose tail PF = Attacco rapido / Quick coupling Codolo = Spigot:

153

M.O.Q.:
120 pcs

IN:
3/4" M BSP

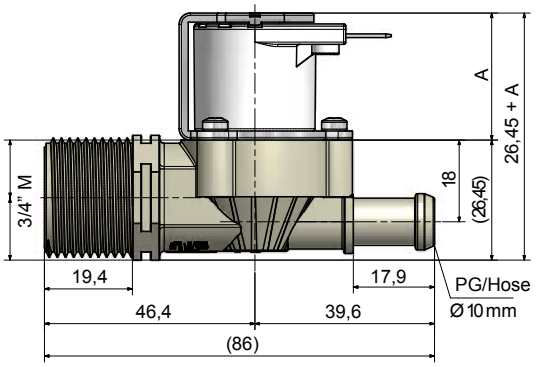
OUT:
PG 10 mm

A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

31,3
Bistabile/*Latching*



164

M.O.Q.:
160 pcs

IN:
3/4" M BSP

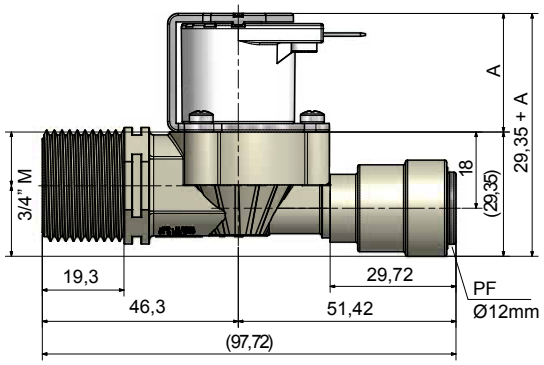
OUT:
PF 12 mm

A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



151 — 90°

M.O.Q.:
120 pcs

IN:
3/4" M

OUT:
PG 10 mm

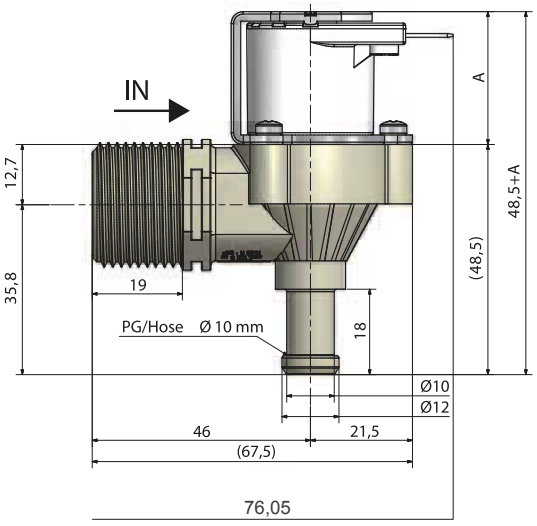
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



183 — 90°

M.O.Q.:
120 pcs

IN:
3/4" M

OUT:
PF 6 mm

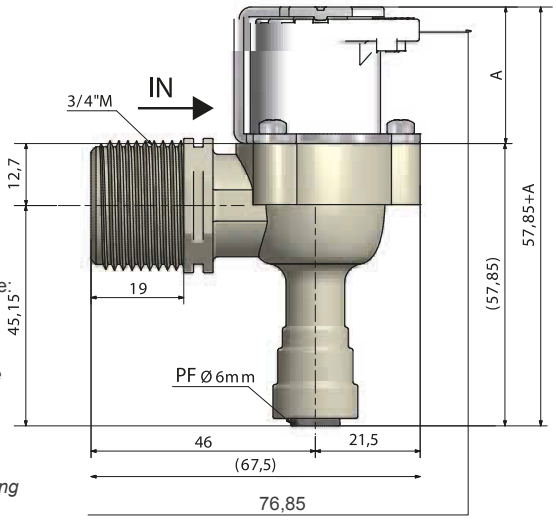
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



154 — 180°

M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PG 13 mm

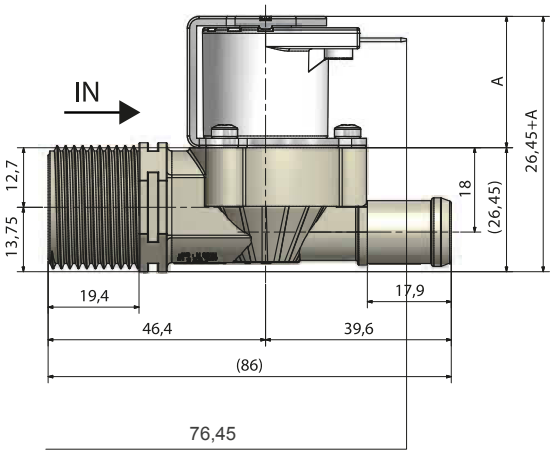
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



159 — 180°

M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
PF 8 mm

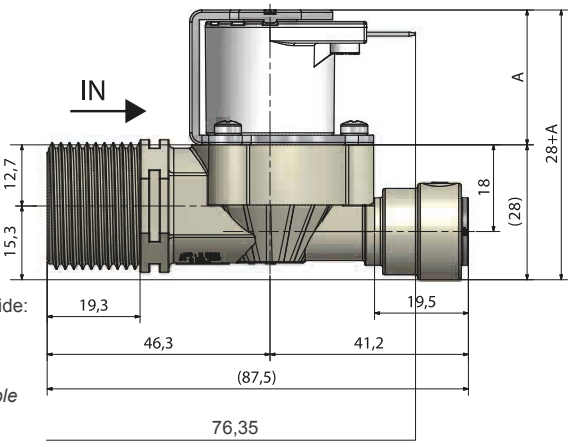
A:
28
NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile
Latching



Misure in millimetri - Dimensions in millimeters

191 — 90°

M.O.Q.:
120 pcs

IN:
1/2" BSAP

OUT:
1/2" BSAP

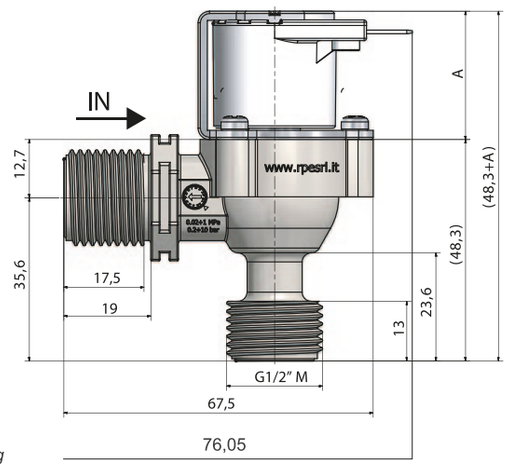
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



161 — 90°

M.O.Q.:
120 pcs

IN:
3/4" M

OUT:
Cordolo/*Spigot*
10 mm

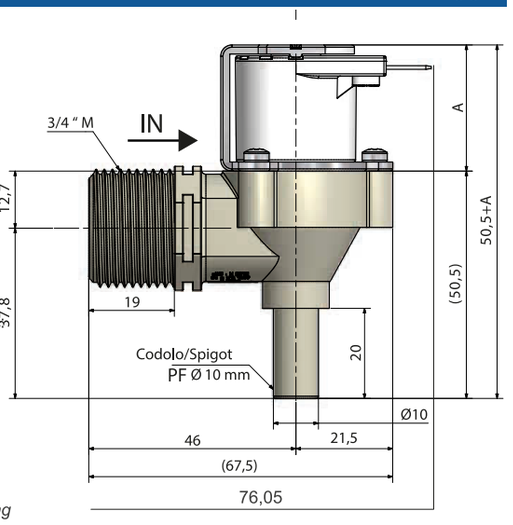
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



174 — 180°

M.O.Q.:
160 pcs

IN:
PF 10 mm

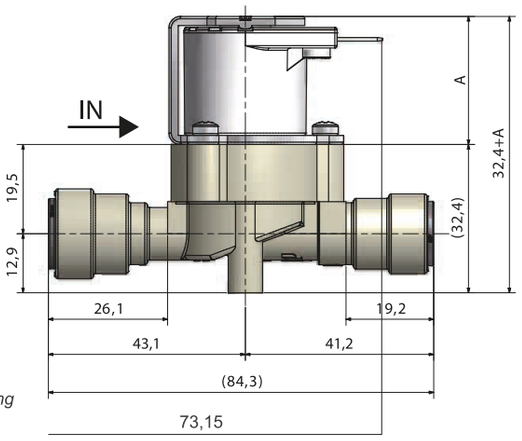
OUT:
PF 10 mm

A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



193 — 180°

M.O.Q.:
160 pcs

IN:
PF 6 mm

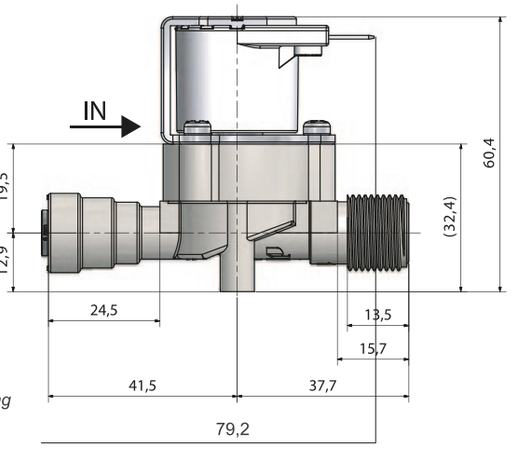
OUT:
3/8" M

A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



157

M.O.Q.:
160 pcs

IN:
3/4" M

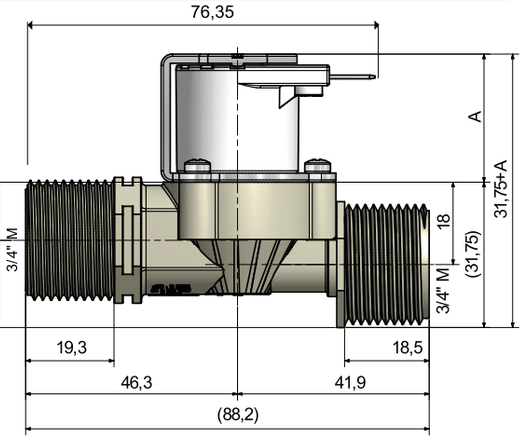
OUT:
3/4" M

A:
28
NC+Faston

29,2
NC+Cavi/*Cable*

47,2
NA/NO

38,3
Bistabile/*Latching*



178

M.O.Q.:
160 pcs

IN:
PF 10 mm

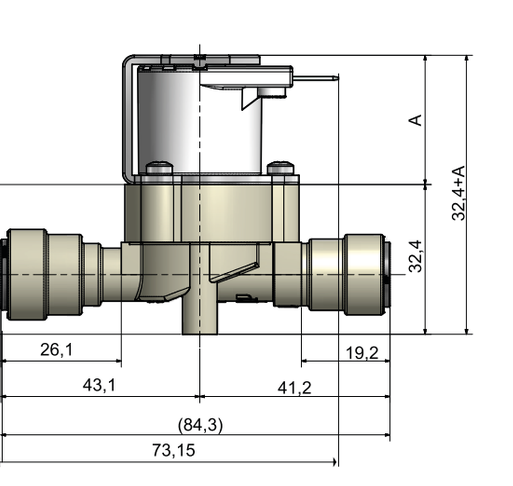
OUT:
PF 6 mm

A:
28
NC
+Faston

29,2
NC
+Cavi/*Cable*

47,2
NA/NO

38,3
Bistabile/*Latching*



Serie R - Doppia
R Series - Double

90°

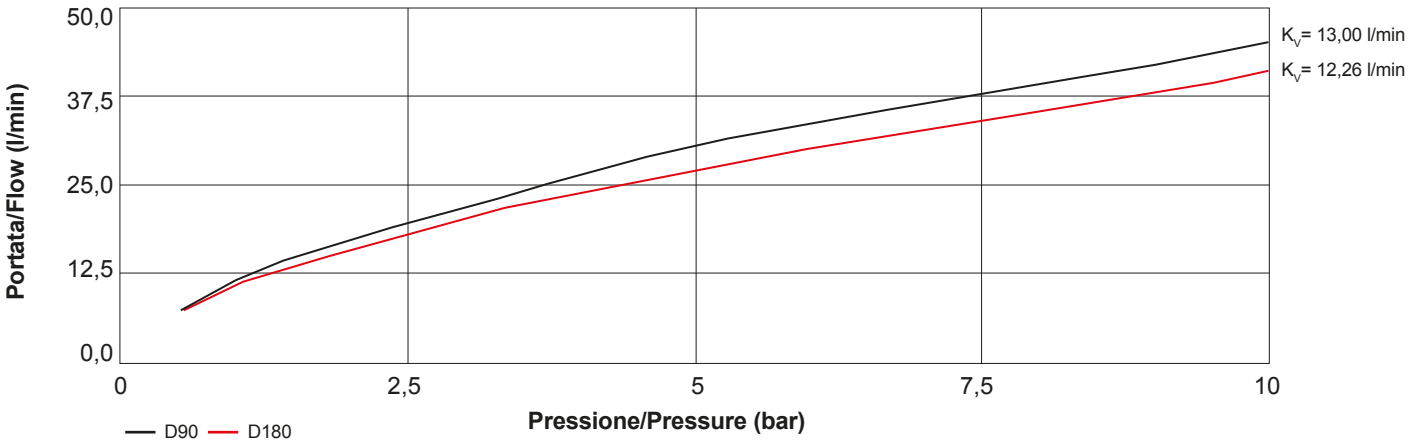
Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
251	G 3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
252	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
255	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		
289	G 3/4" M	PF 8 mm	11 mm		✓	✓	✓	✓	✓	✓

180°

Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
253	G 3/4" M	PG 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
254	G 3/4" M	PG 13 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
256	G 3/4" M	G 1/4" M	10 mm	✓	✓	✓	✓	✓	✓	✓
258	G 3/4" M	Codolo 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
264	G 3/4" M	PF 6 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
259	G 3/4" M	PF 8 mm	10 mm	✓	✓	✓	✓	✓	✓	✓
260	G 3/4" M	PF 10 mm	10 mm	✓	✓	✓	✓	✓	✓	✓

Legenda / Key PG = Portagomma / Hose tail PF = Attacco rapido / Quick coupling Codolo = Spigot

GRAFICO PORTATE SERIE R DOPPIA (Ø10 MM) / *FLOW RATES CHART R SERIES DOUBLE (Ø10 MM)*



Misure in millimetri - Dimensions in millimeters

251 — 90°

M.O.Q.:
120 pcs

IN:
3/4" M

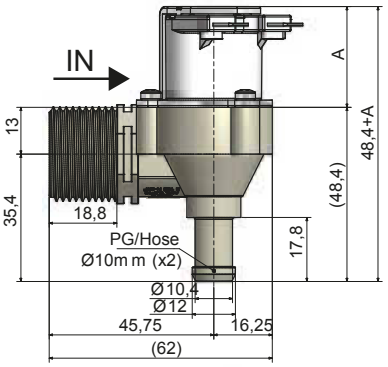
OUT:
PG 10 mm

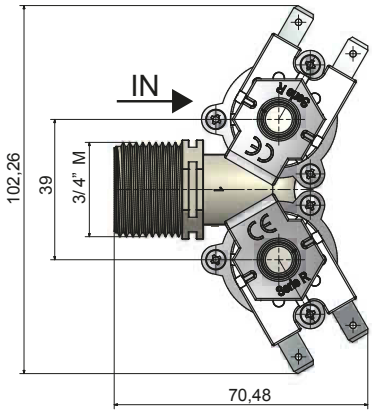
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





255 — 90°

M.O.Q.:
120 pcs

IN:
3/4" M

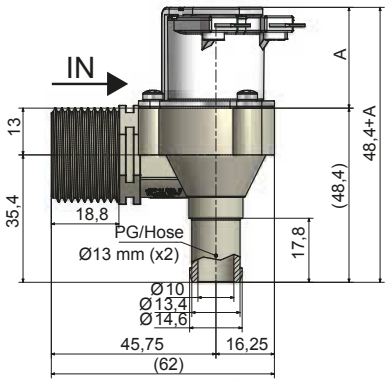
OUT:
PG 13 mm

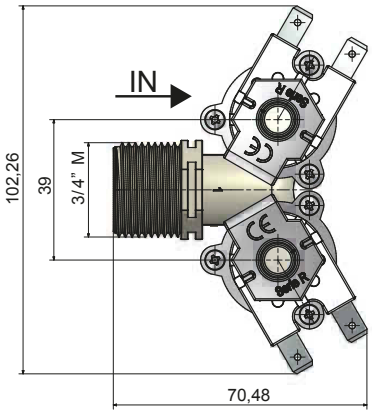
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





253 — 180°

M.O.Q.:
160 pcs

IN:
3/4" M
3/4" GHT/NHR M

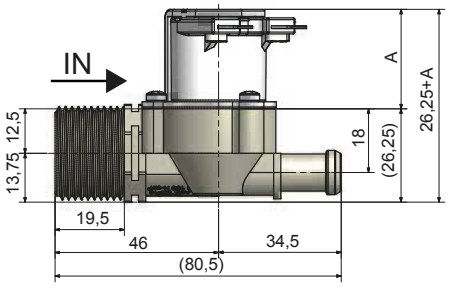
OUT:
PG 10 mm

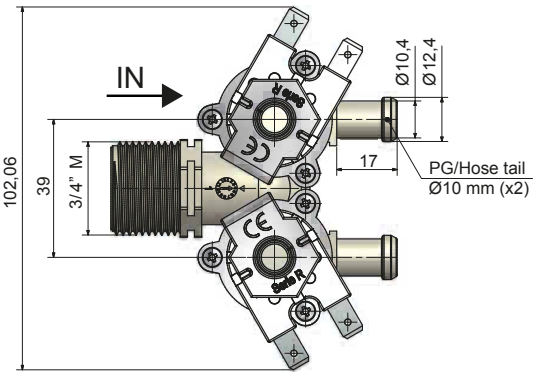
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





259 — 180°

M.O.Q.:
160 pcs

IN:
3/4" M

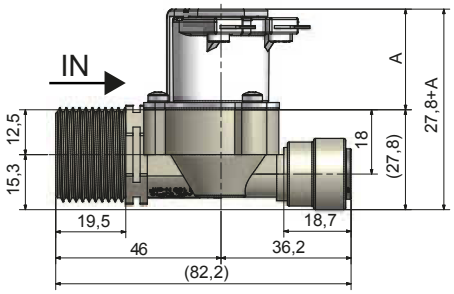
OUT:
PF 8 mm

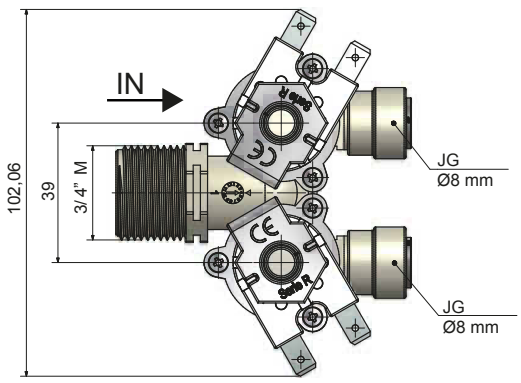
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





Serie R - Tripla
R Series - Triple

90°

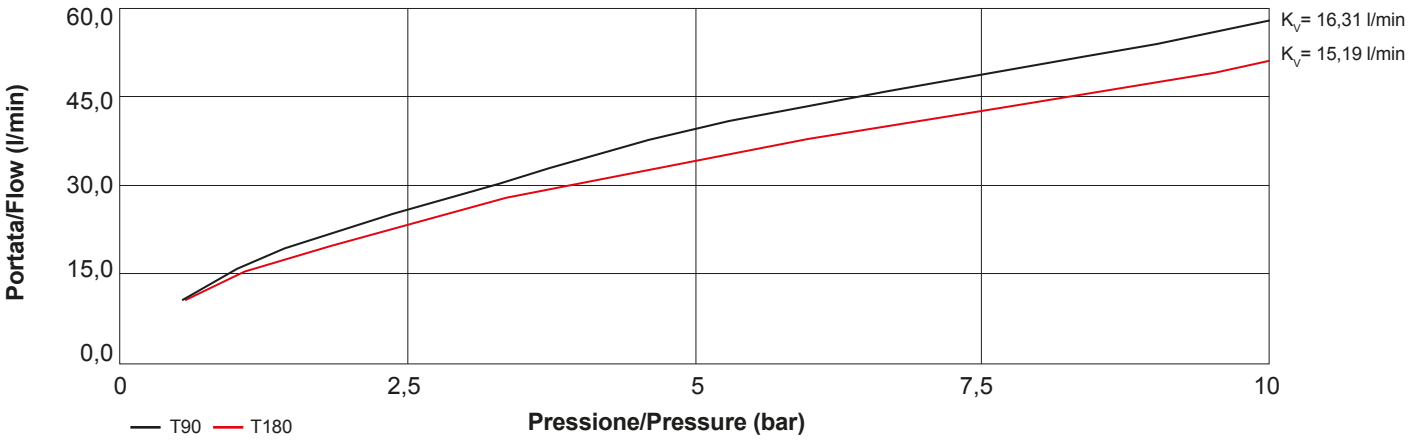
Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
351	G 3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
352	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
355	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		

180°

Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
353	G 3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
354	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
358	G 3/4" M	Codolo 10 mm	10 mm		✓	✓	✓	✓	✓	✓
359	G 3/4" M	PF 8 mm	10 mm		✓	✓	✓	✓	✓	✓
360	G 3/4" M	PF 10 mm	10 mm		✓	✓	✓	✓	✓	✓

Legenda / Key PG = Portagomma / Hose tail PF = Attacco rapido / Quick coupling Codolo = Spigot

GRAFICO PORTATE SERIE R TRIPLA (Ø10 MM) / *FLOW RATES CHART R SERIES TRIPLE (Ø10 MM)*



Misure in millimetri - Dimensions in millimeters

351 — 90°

M.O.Q.:
40 pcs

IN:
3/4" M

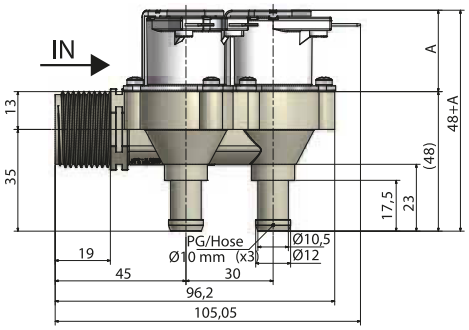
OUT:
PG 10 mm

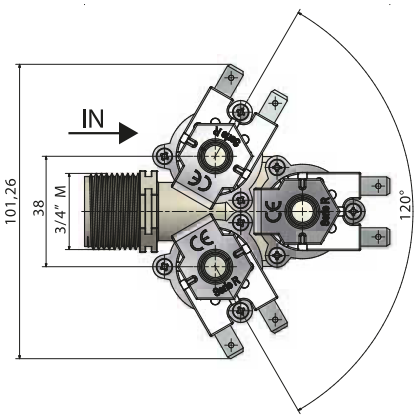
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





355 — 90°

M.O.Q.:
40 pcs

IN:
3/4" M

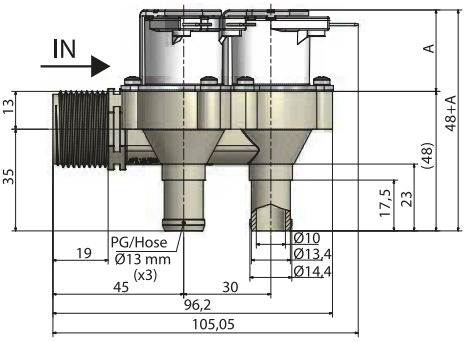
OUT:
PG 13 mm

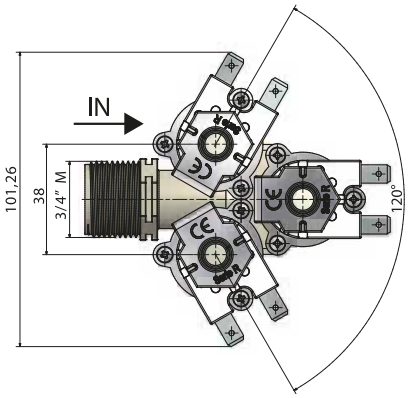
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





353 — 180°

M.O.Q.:
40 pcs

IN:
3/4" M

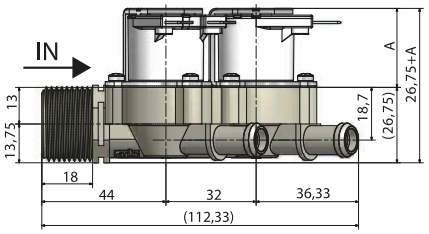
OUT:
PG 10 mm

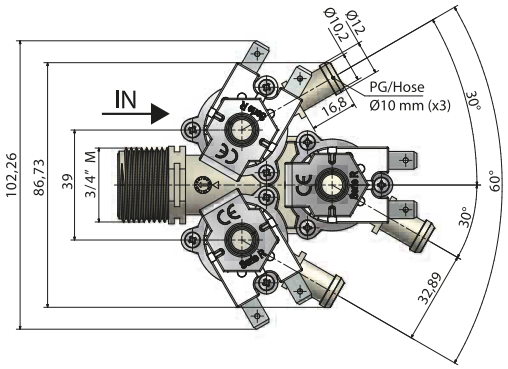
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





360 — 180°

M.O.Q.:
40 pcs

IN:
3/4" M

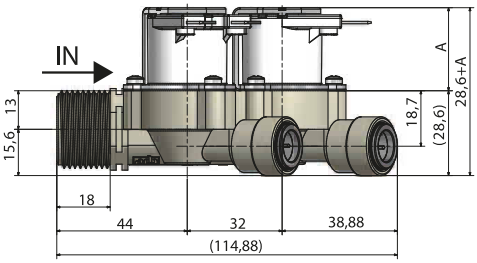
OUT:
PF 10 mm

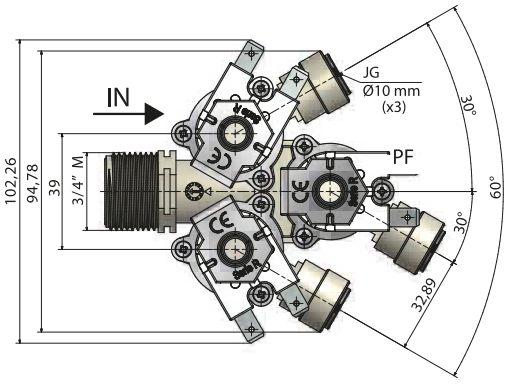
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





Serie R - Quadrupla
R Series - Quadruple

90°

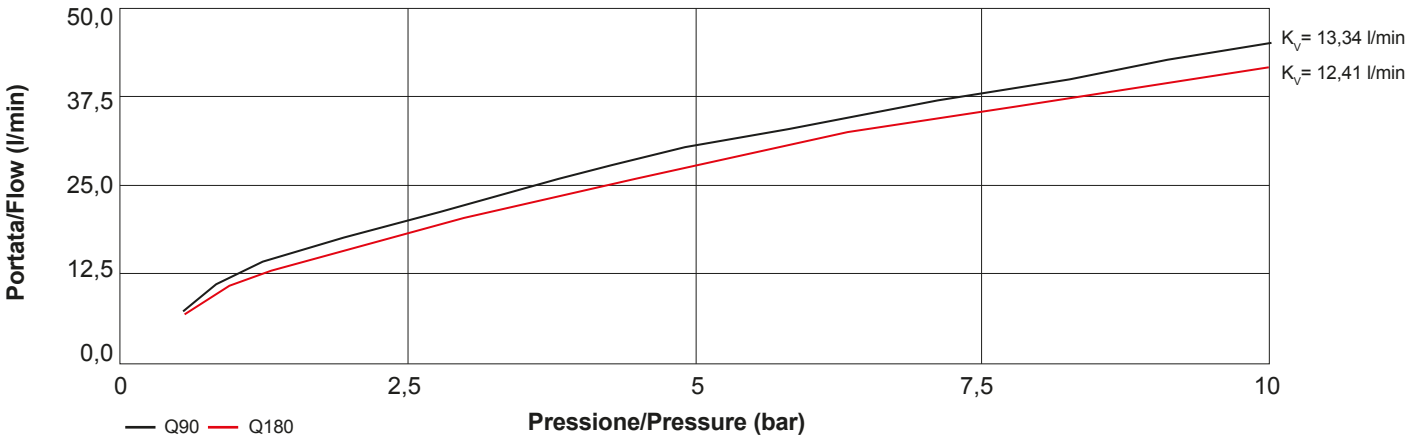
Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
451	G 3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
452	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓	✓	✓
455	G 3/4" M	PG 13 mm	10 mm		✓	✓	✓	✓		

180°

Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	3/4" M GHT	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
453	G 3/4" M	PG 10 mm	10 mm		✓	✓	✓	✓	✓	✓
458	G 3/4" M	Codolo 10 mm	10 mm		✓	✓	✓	✓	✓	✓

Legenda / Key PG = Portagomma / Hose tail PF = Attacco rapido / Quick coupling Codolo = Spigot

GRAFICO PORTATE SERIE R QUADRUPLA (Ø10 MM) / *FLOW RATES CHART R SERIES QUADRUPLE (Ø10 MM)*



Misure in millimetri - Dimensions in millimeters

451 — 90°

M.O.Q.:
40 pcs

IN:
3/4" M

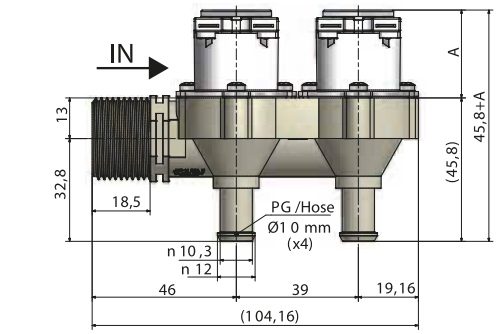
OUT:
PG 10 mm

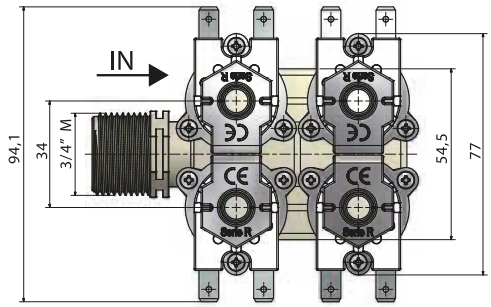
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





455 — 90°

M.O.Q.:
40 pcs

IN:
3/4" M

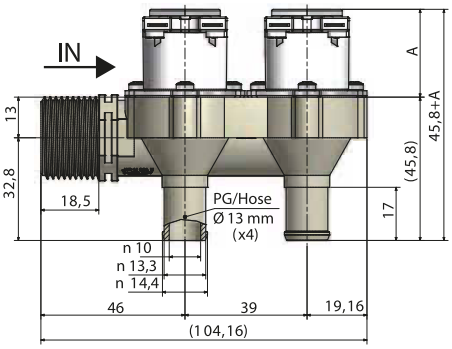
OUT:
PG 13 mm

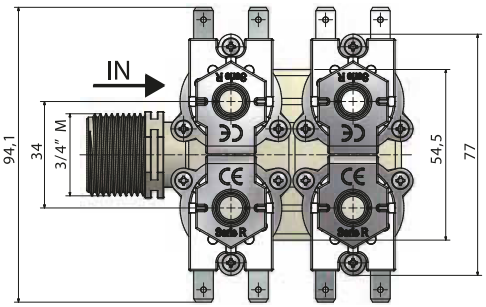
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





453 — 180°

M.O.Q.:
40 pcs

IN:
3/4" M

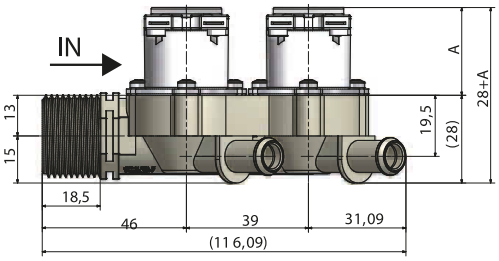
OUT:
PG 10 mm

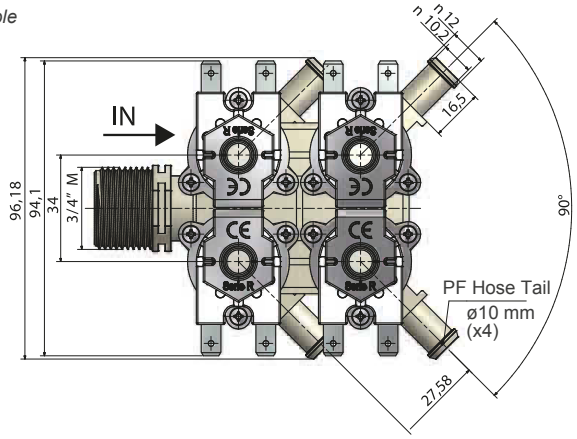
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile
Latching





458 — 180°

M.O.Q.:
40 pcs

IN:
3/4" M

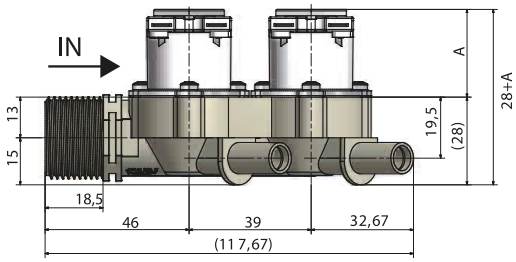
OUT:
PF 10 mm

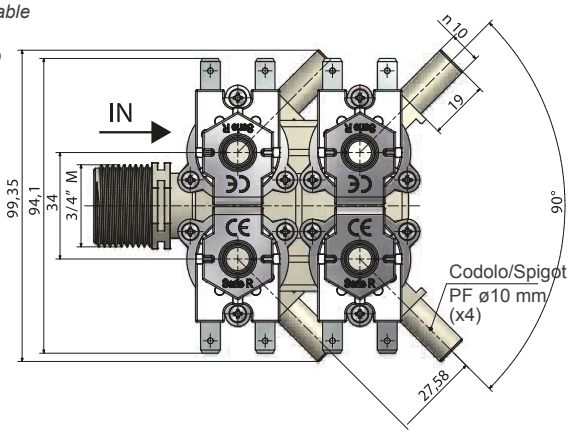
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile
Latching





Serie R Mini - Mini G

R Series Mini - Mini G

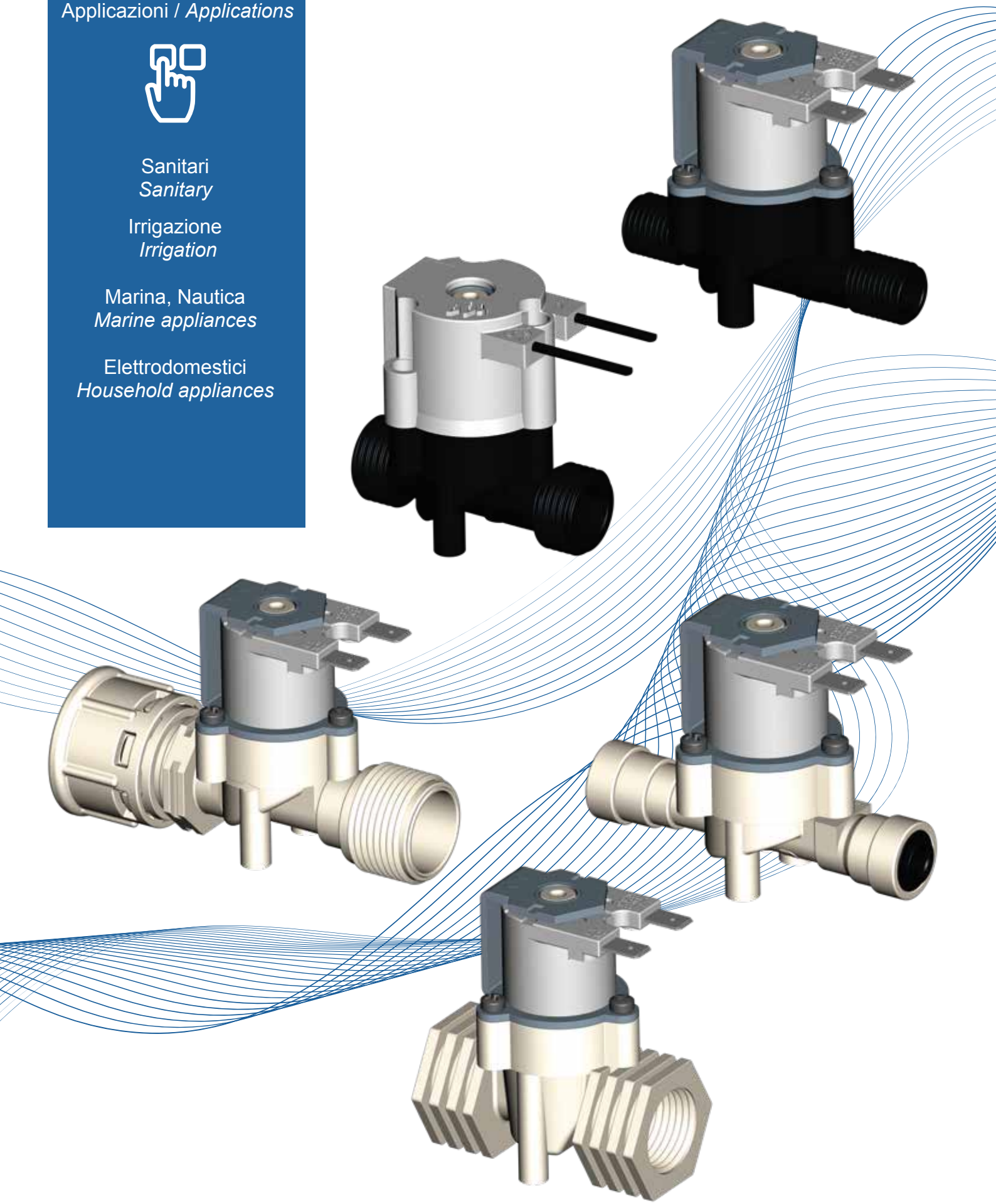
Applicazioni / *Applications*

Sanitari
Sanitary

Irrigazione
Irrigation

Marina, Nautica
Marine appliances

Elettrodomestici
Household appliances



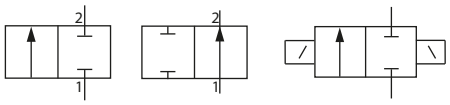
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: NBR, EPDM,LSR
- Nucleo: Acciaio inox
- Pressione di esercizio: 0,2 – 10 bar
- Temperatura ambiente: Tu 60°C
- Temperatura fluido: Tm 25°C – Tm 60°C – ED 100% Tm 90°C (3 min ON – 5 min OFF)
- Diametro nominale: DN 11mm / Orifice: ND 11mm

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR;EPDM; LSR*
- *Core: Stainless Steel*
- *Working pressure: 0,2 – 10 bar*
- *Room temperature: Tu 60°C*
- *Fluid temperature: Tm 25°C – Tm 60°C – ED 100% Tm 90°C (3 min ON – 5 min OFF)*
- *Diametro nominale: DN 11mm / Orifice: ND 11mm*

ICONE / *ICONS*



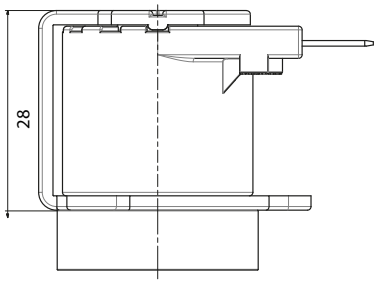
PUNTI DI FORZA / *HIGHLIGHTS*

- Valvole estremamente compatte / *Highly compact valves*
- Disponibili con filetto NPT/ *NPT thread available*
- Disponibili versioni con filettatura Femmina e ghiera rotante
  Female thread and ring nut versions available
- Valvole certificate per contatto con alimenti / *Cartified valves for food contac*
- Disponibili versioni certificate UL per mercato Nord Americano
  UL certified versions for the Noth American market available

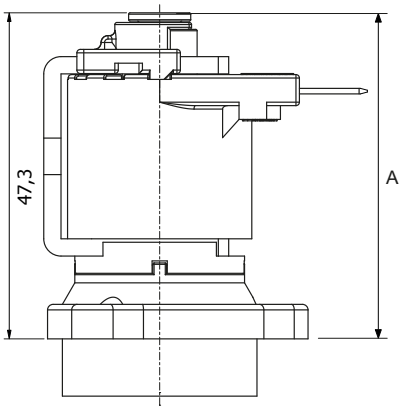
CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

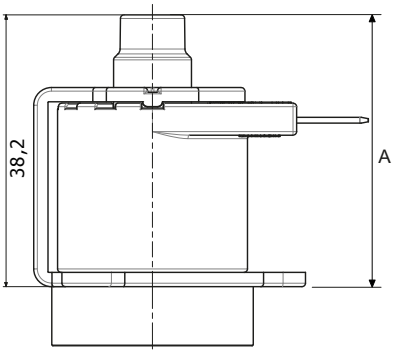
QUOTA A / *A DIMENSION*



NORMALMENTE CHIUSA / *NORMALLY CLOSED*



NORMALMENTE APERTA / *NORMALLY OPEN*



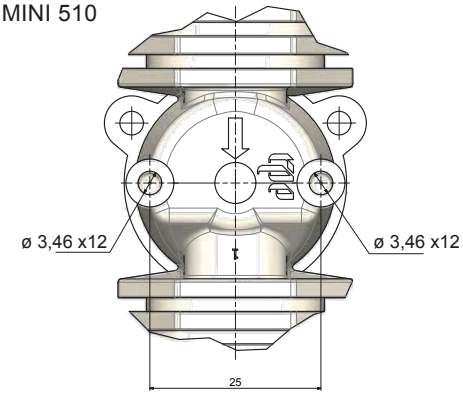
BISTABILE / *LATCHING*

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - Tm 60° C - ED 100%	Fluid temperature	Tm 25° C - Tm 60° C - ED 100%
	Tm 90° C (3 ON - 5 OFF)		Tm 90° C (3 ON - 5 OFF)
Diametro nominale	DN 11mm	Orifice	DN 11mm
Comando	NC; NA; Bistabile	Control	NC; NA; Bistabile
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Kv Serie R Mini	Vedi pagine succesive	Kv 9Kv R Series Mini	See next pages
Kv Serie R Mini G	27,07 L/min	Kv R Series Mini G	27,07 L/min

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm	Unipolar wires max 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires max 5000 mm

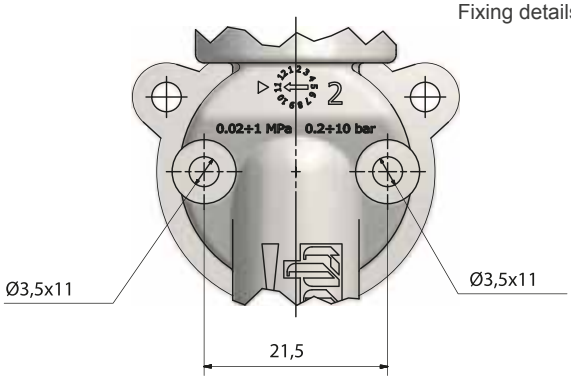
DETTAGLI DI FISSAGGIO*

R MINI 510



R MINI

Fixing details*



*NON disponibile sulle versioni con filettatura femmina sulla serie Mini / Not available on versions with female thread on Mini series

SERIE R MINI / *R SERIES MINI*

Modello Model	IN/OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
210	G 1/8" F	11 mm	160						
310	G 1/4" F	11 mm	160						
311	G 1/4" M	11 mm	160						
410	G 3/8" F	11 mm	160						
411	G 3/8" M	11 mm	160						
421	G 3/8" M / PG 10 mm	11 mm	160						
510	G 1/2" F	11 mm	160						
511	G 1/2" M	11 mm	160						
611	G 3/4" M	11 mm	160	✓					
611 NPT	NPT 3/4" M	11 mm	160	✓					
015	PG 10 mm	11 mm	160						
1145	G 1/2" M + PF 8 mm	11 mm	160						
1115	F8*	11 mm	160						

Modello Model	IN/OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
118	PF 1/4"	11 mm	160			✓		✓	✓
119	PF 3/8"	11 mm	160			✓		✓	✓
1147	PF 5/16"	11 mm	160			✓		✓	✓
113	PF 6 mm	11 mm	160			✓		✓	✓
1146	PF 8 mm	11 mm	160			✓		✓	✓
115	PF 10 mm	11 mm	160			✓		✓	✓
117	PF 15 mm	11 mm	160						

Legenda / Key PG = Portagomma / Hose tail PF = Attacco rapido / Quick coupling

*Connesione per alte temperature / Connection for high temperature

SERIE R MINI G / *R SERIES MINI G*

Modello Model	IN	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)
612	G 3/4" M	G 3/4" M	11 mm	160	✓	✓	✓	✓	
613	G 3/4" M	G 3/4" F *Con ghiera	11 mm	160	✓	✓	✓	✓	
614	G 3/4" F *Con ghiera	G 3/4" M	11 mm	160	✓	✓	✓	✓	
615	G 3/4" F *Con ghiera	G 3/4" F *Con ghiera	11 mm	160	✓	✓	✓	✓	

Legenda / Key *Con ghiera = With ring nut

GRAFICO PORTATE SERIE R MINI / FLOW RATES CHART R SERIES MINI

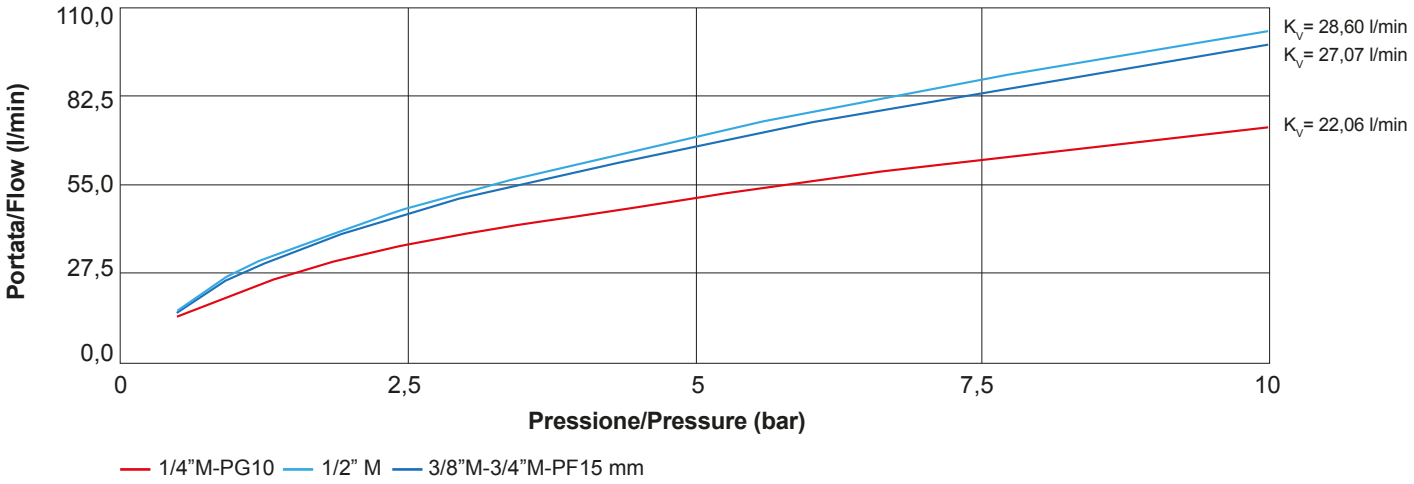


GRAFICO PORTATE SERIE R MINI / *FLOW RATES CHART R SERIES MINI*

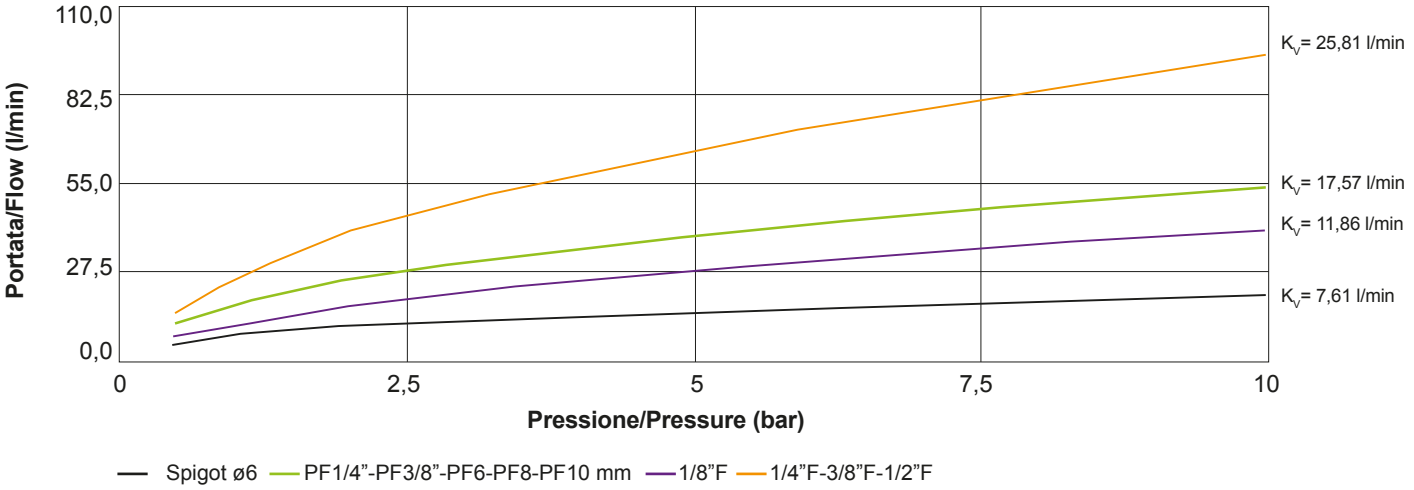
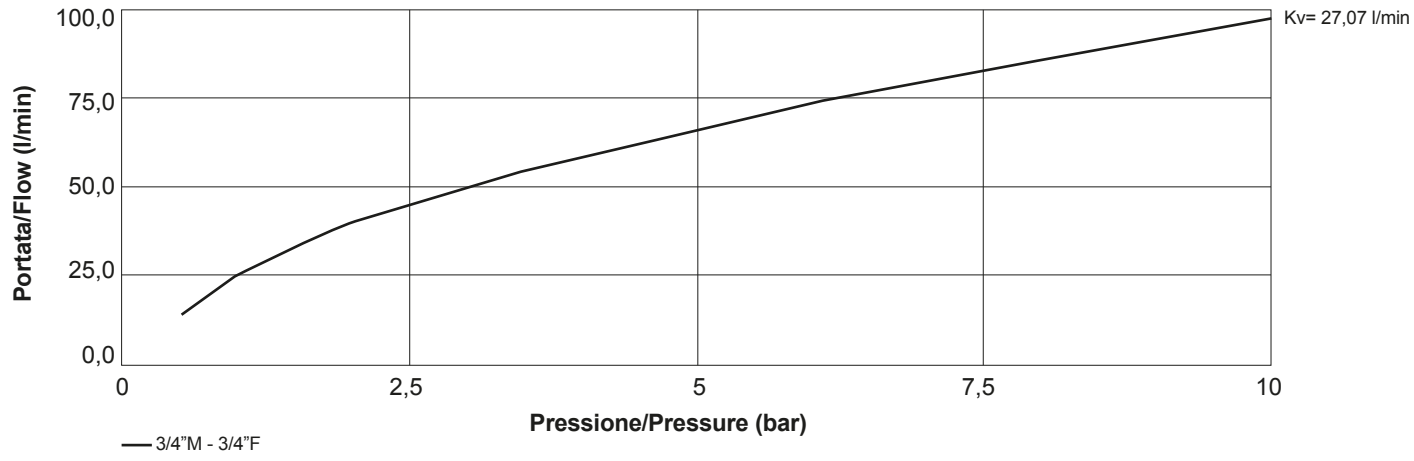


GRAFICO PORTATE SERIE R MINI G / *FLOW RATES CHART R SERIES MINI G*



R Mini 511

M.O.Q.:
160 pcs

IN:
1/2" M

OUT:
1/2" M

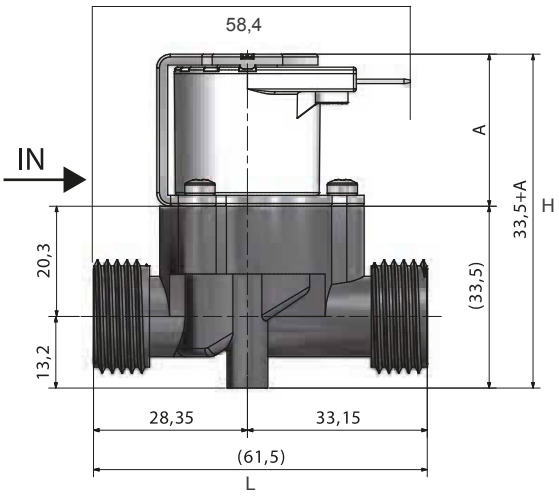
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



R Mini 1146

M.O.Q.:
40 pcs

IN:
PF 8 mm

OUT:
PF 8 mm

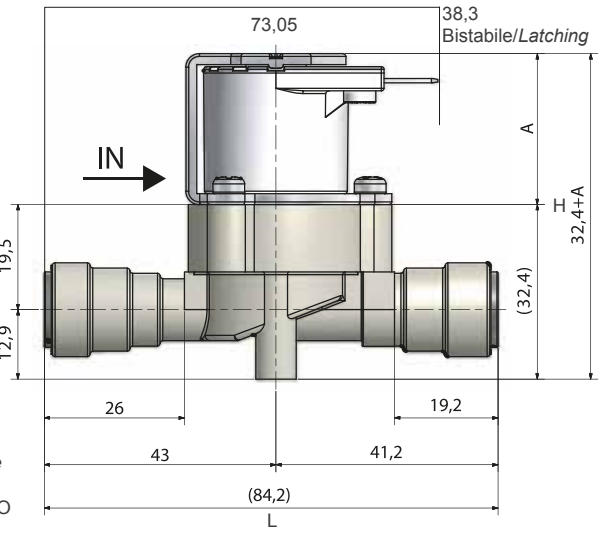
A:
28 NC+
Faston

Larghezza
Wide:
38,31

29,2
NC+
Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



612

M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
3/4" M

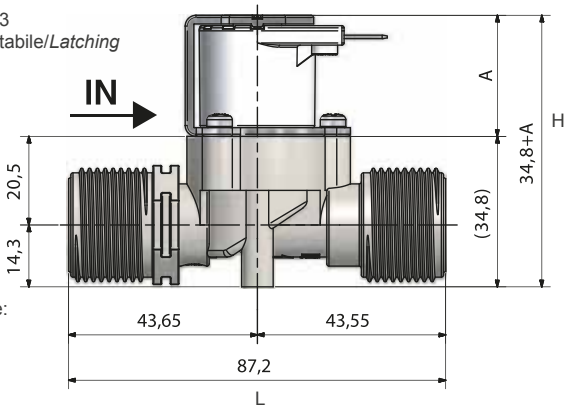
A:
28 NC+Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



613

M.O.Q.:
160 pcs

IN:
3/4" M

OUT:
3/4" F

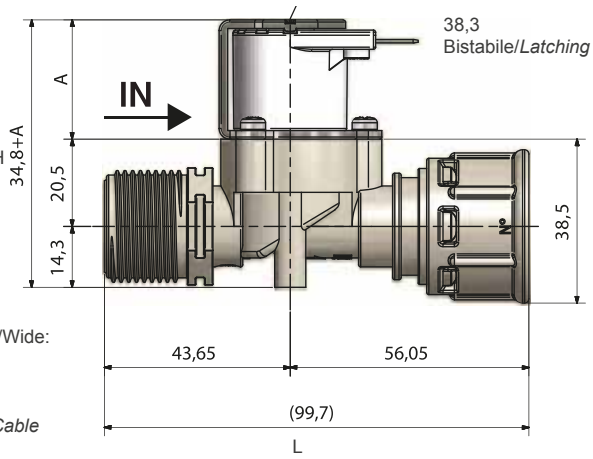
A:
28 NC+
Faston

Larghezza/Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



614

M.O.Q.:
160 pcs

IN:
3/4" F

OUT:
3/4" M

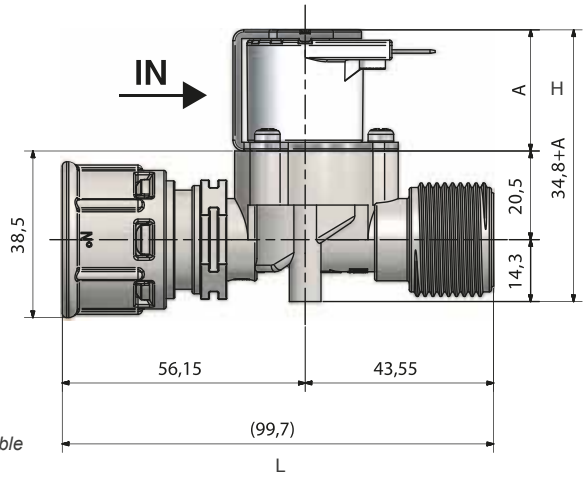
A:
28 NC+
Faston

Larghezza
Wide:
38,31

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



615

M.O.Q.:
160 pcs

IN:
3/4" F

OUT:
3/4" F

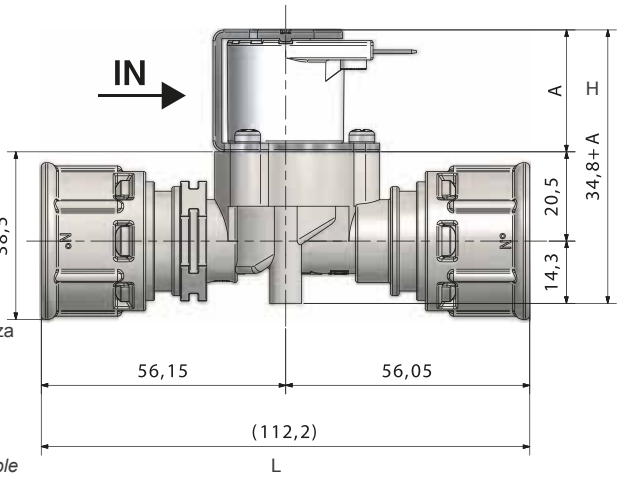
A:
28 NC+
Faston

Larghezza
Wide:
38,31

29,2
NC+
Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



Misure in millimetri / Dimensions in millimeters

Serie R - Dispenser

R Series - Dispenser

Applicazioni / *Applications*

Bevande e filtrazione
Beverage & filtering

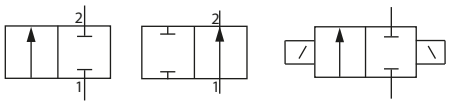
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: NBR, LSR, EPDM
- Nucleo: Acciaio Inox
- Pressione di esercizio: 0,2 – 10 bar
- Temperatura ambiente: Tu 60°C
- Temperatura fluido: Tm 25°C – Tm 60°C – ED 100% Tm 90°C (3 min ON – 5 min OFF)
- Diametro nominale: DN 10mm / Orifice: DN 10mm

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR, LSR, EPDM*
- *Core: stainless Steel*
- *Working pressure: 0,2 – 10 bar*
- *Room temperature: Tu 60°C*
- *Fluid temperature: Tm 25°C – Tm 60°C – ED 100% Tm 90°C (3 min ON – 5 min OFF)*
- *Diametro nominale: DN 10mm / Orifice: DN 10mm*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni (2 o 3 ingressi e differenti tipologie di connessioni disponibili sia in ingresso che in uscita) / *Wide range of customisations (2 or 3 inlet and different type of connections)*
- Soluzione ideale per dispenser d'acqua / *Ideal solution for water dispenser*
- Valvole certificate per contatto con alimenti / *Certified valves for food contact*
- Disponibili anche con membrana in silicone / *Also available with silicone diaphragm*
- Disponibili versioni certificate UL per il mercato Nord Americano
  UL certified versionis for the North American market available

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

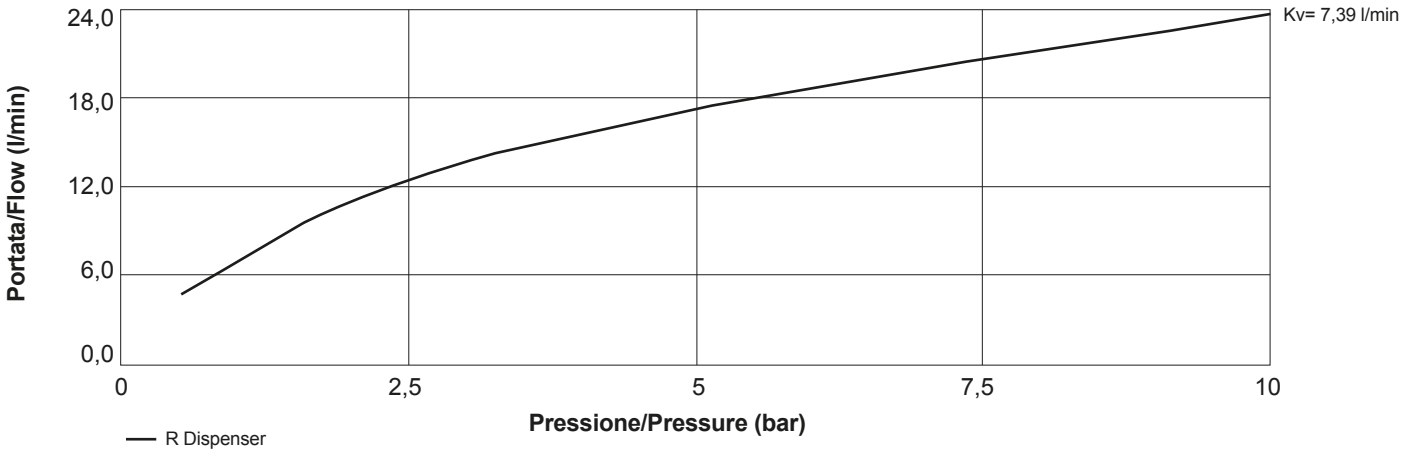
Serie R - Dispenser
R Series - Dispenser

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% FV
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Bobine	Classe F (155˚)	Coils	F class (155˚)
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - Tm 60° C - ED 100%	Fluid temperature	Tm 25° C - Tm 60° C - ED 100%
	Tm 90° C (3 ON - 5 OFF)		Tm 90° C (3 ON - 5 OFF)
Diametro nominale	DN 10 mm	Orifice	DN 10 mm
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Kv	7,39 L/min	Kv	7,39 L/min

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm

GRAFICO PORTATA SERIE R DISPENSER / *FLOW RATE CHART R SERIES DISPENSER*



2 IN 1 OUT

Modello Model	IN	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)
237	PF 1/4"	PF 1/4"	10 mm	36
237	PF 6 mm	PF 6 mm	10 mm	36
237	PF 8 mm	PF 8 mm	10 mm	36
236	M10 x 1	1/4" M	10 mm	36

3 IN 1 OUT

Modello Model	IN	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)
325	PF 1/4"	PF 1/4"	10 mm	40
325	PF 6 mm	PF 6 mm	10 mm	40
325	PF 8 mm	PF 8 mm	10 mm	40
325	M10 x 1	1/4" M	10 mm	40

Legenda / Key PF = Attacco rapido / Quick coupling

236

M.O.Q.:
40 pcs

IN:
2 IN M 10x1

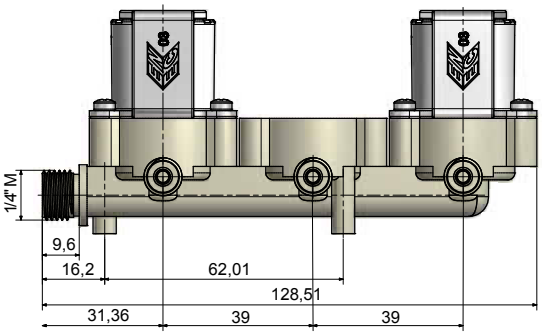
OUT:
1 OUT 1/4"
M BSP

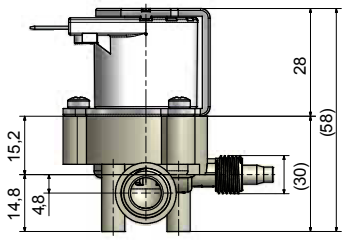
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





237 PF 8

M.O.Q.:
40 pcs

IN:
2 IN PF 8 mm

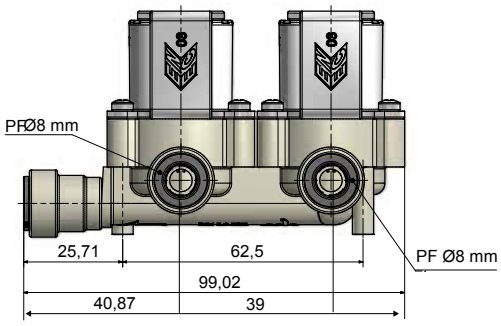
OUT:
1 OUT PF 8 mm

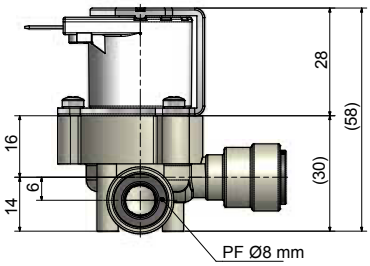
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





237

M.O.Q.:
40 pcs

IN:
2 IN PF 1/4"

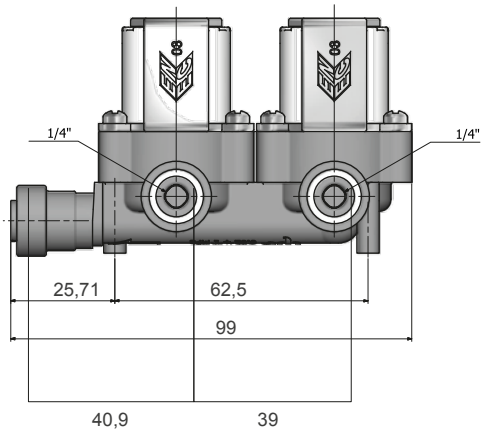
OUT:
1 OUT PF 1/4"

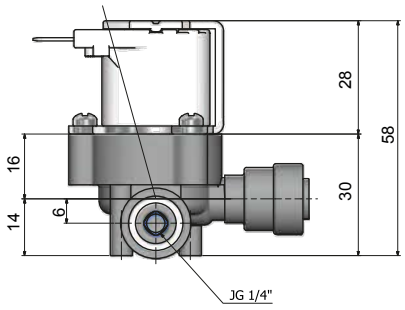
A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





325

M.O.Q.:
40 pcs

IN:
3 IN PF 1/4"

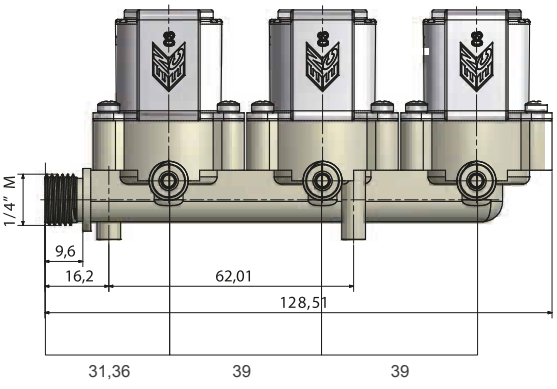
OUT:
1 OUT PF 1/4"

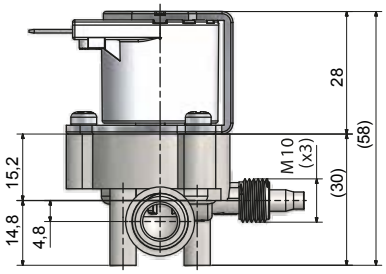
A:
28 NC+
Faston

29,2
NC+
Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile
Latching





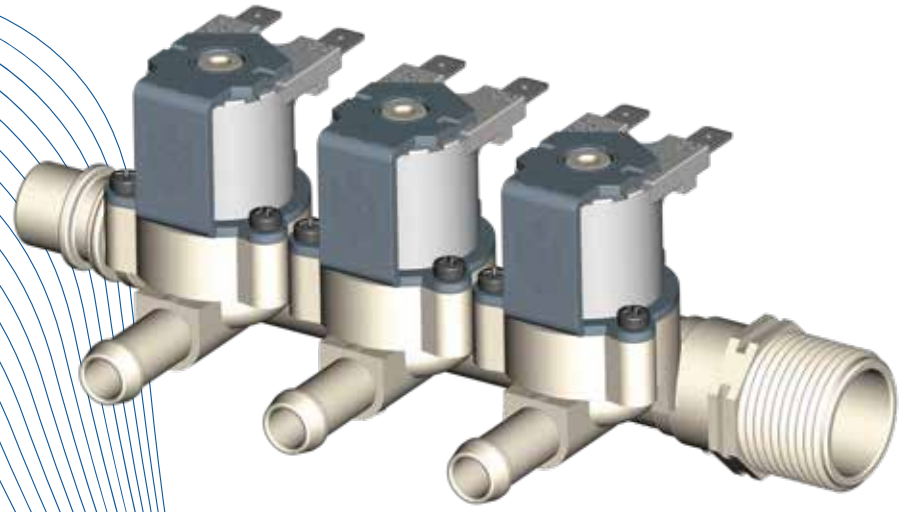
Serie R - Modulare
R Series - Modular

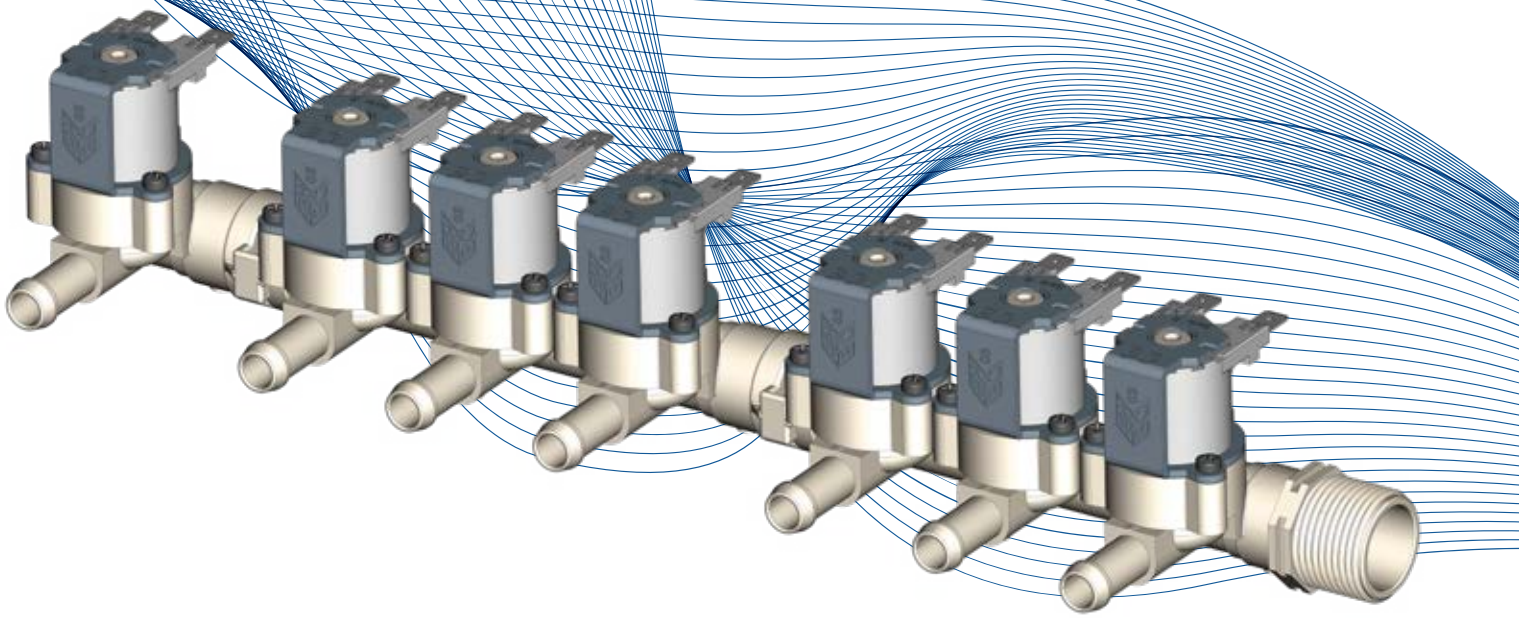
Applicazioni / *Applications*

Elettrodomestici
Household appliances

Sanitario
Sanitary

Irrigazione
Irrigation





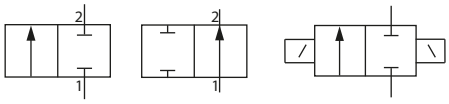
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: NBR, LSR, EPDM
- Nucleo: Acciaio Inox
- Pressione di esercizio: 0,2-10 bar
- Temperatura ambiente: Tu 60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR, LSR, EPDM*
- *Core: Stainless Steel*
- *Working pressure: 0,2-10 bar*
- *Room temperature: Tu 60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni (riduttori, regolatori, cavi…) / *Wide range of customisations (regulators, reducers, cables…)*
- Ideale per applicazioni multi-uscita (1 IN / da 2 a 7 OUT) / *Perfect for multi-output applications (1 IN / 2 to 7 OUT)*
- Valvole certificate per contatto con alimenti / *Certified valves for food contact*
- Soluzione estremamente compatta / *Highly compact solution*
- Disponibili versioni UL per mercato Nord Americano / *UL certified versions for the North America market available*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

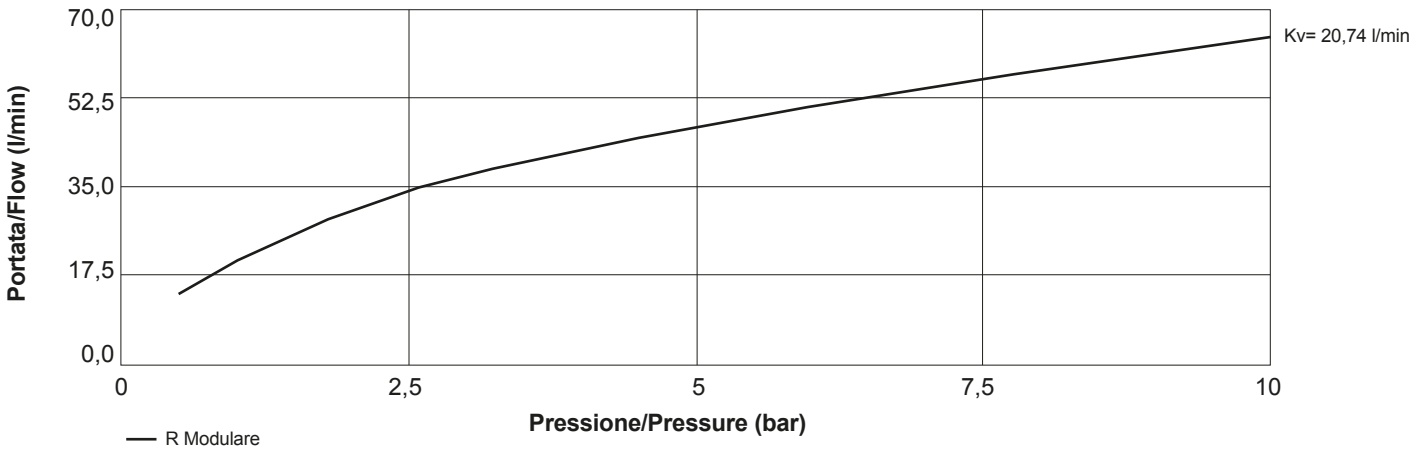
Serie R - Modulare
R Series - Modular

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Bobine	Classe F (155˚)	Coils	F class (155˚)
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - Tm 60° C - ED 100%	Fluid temperature	Tm 25° C - Tm 60° C - ED 100%
	Tm 90° C (3 ON - 5 OFF)		Tm 90° C (3 ON - 5 OFF)
Diametro nominale	DN 11mm	Orifice	DN 11mm
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Kv 1 uscita	20,74 L/min	Kv 1 outlet	20,74 L/min

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm	Unipolar wires max 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires max 5000 mm

GRAFICO PORTATA SERIE R MODULARE (1 USCITA) / *FLOW RATE CHART R SERIES MODULAR (1 OUTLET)*



Modello Model	IN 3/4" M	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
1100	G 3/4" M	1 PG 10 mm	11 mm	120	✓	✓	✓	✓	✓	✓
1200	G 3/4" M	2 PG 10 mm	11 mm	80	✓	✓	✓	✓	✓	✓
1300	G 3/4" M	3 PG 10 mm	11 mm	40	✓	✓	✓	✓	✓	✓
1400	G 3/4" M	4 PG 10 mm	11 mm	24	✓	✓	✓	✓	✓	✓
1700	G 3/4" M	7 PG 10 mm	11 mm	24	✓	✓	✓	✓	✓	✓

Legenda / Key: PG = Portagomma / Hose tail

RM 1100

M.O.Q.:
120 pcs

IN:
3/4" M

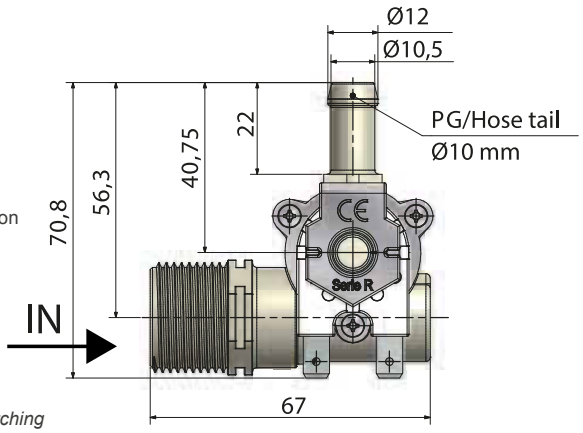
OUT:
PG 10 mm

A:
28 NC+Faston

29,2
NC+
Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



RM 1200

M.O.Q.:
80 pcs

IN:
3/4" M

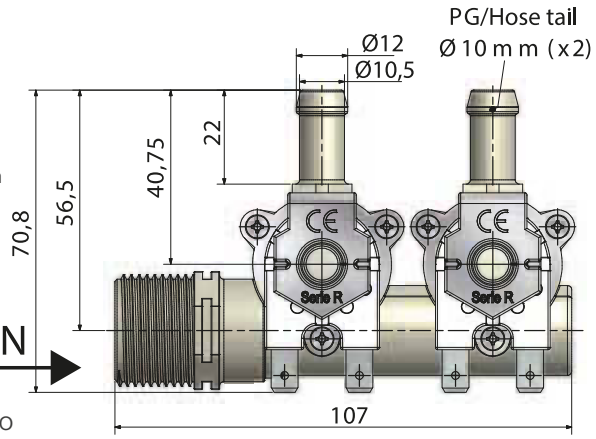
OUT:
PG 10 mm

A:
28 NC+
Faston

29,2
NC+
Cavi
Cable

47,2 NA/NO

38,3
Bistabile/*Latching*



RM 1500

M.O.Q.:
24 pcs

IN:
3/4" M

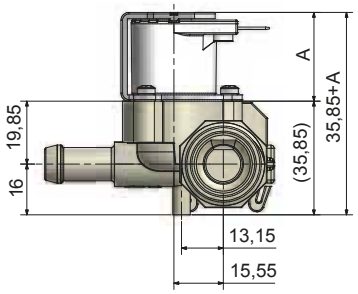
OUT:
PG 10 mm

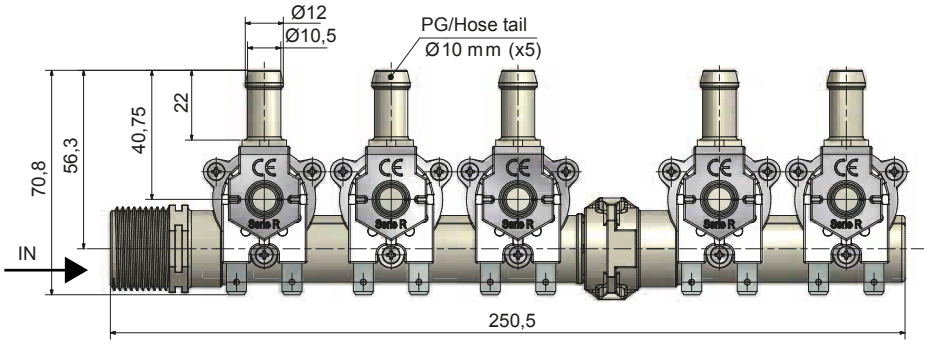
A:
28 NC+
Faston

29,2
NC+
Cavi/*Cable*

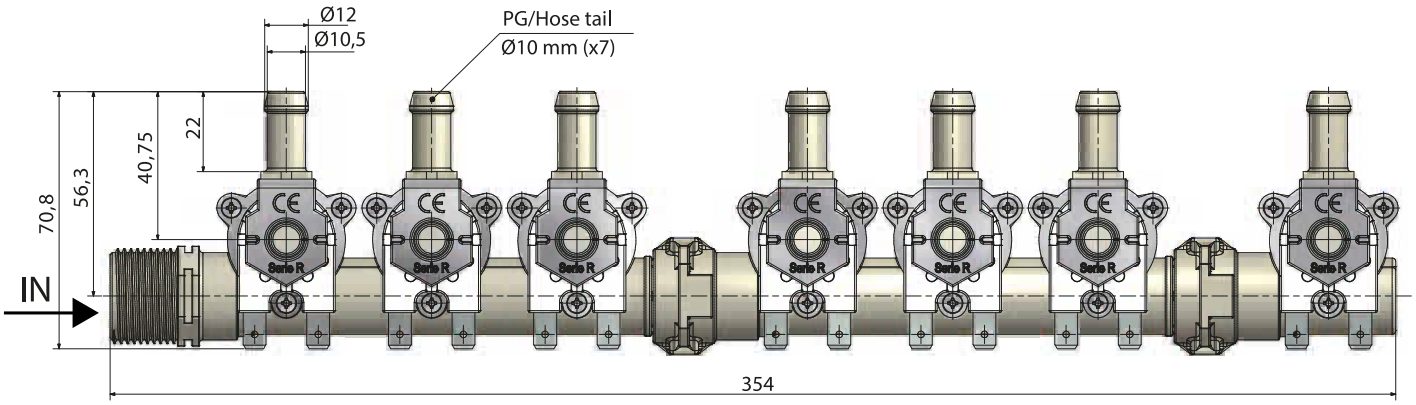
47,2 NA/NO

38,3
Bistabile/*Latching*





RM 1700



M.O.Q.: 24 pcs **IN:** 3/4" M **OUT:** PG 10 mm A: 28 NC+ Faston 29,2 NC+ Cavi *Cable* 47,2 NA/NO 38,3 Bistabile/*Latching*

Serie R - Componibile

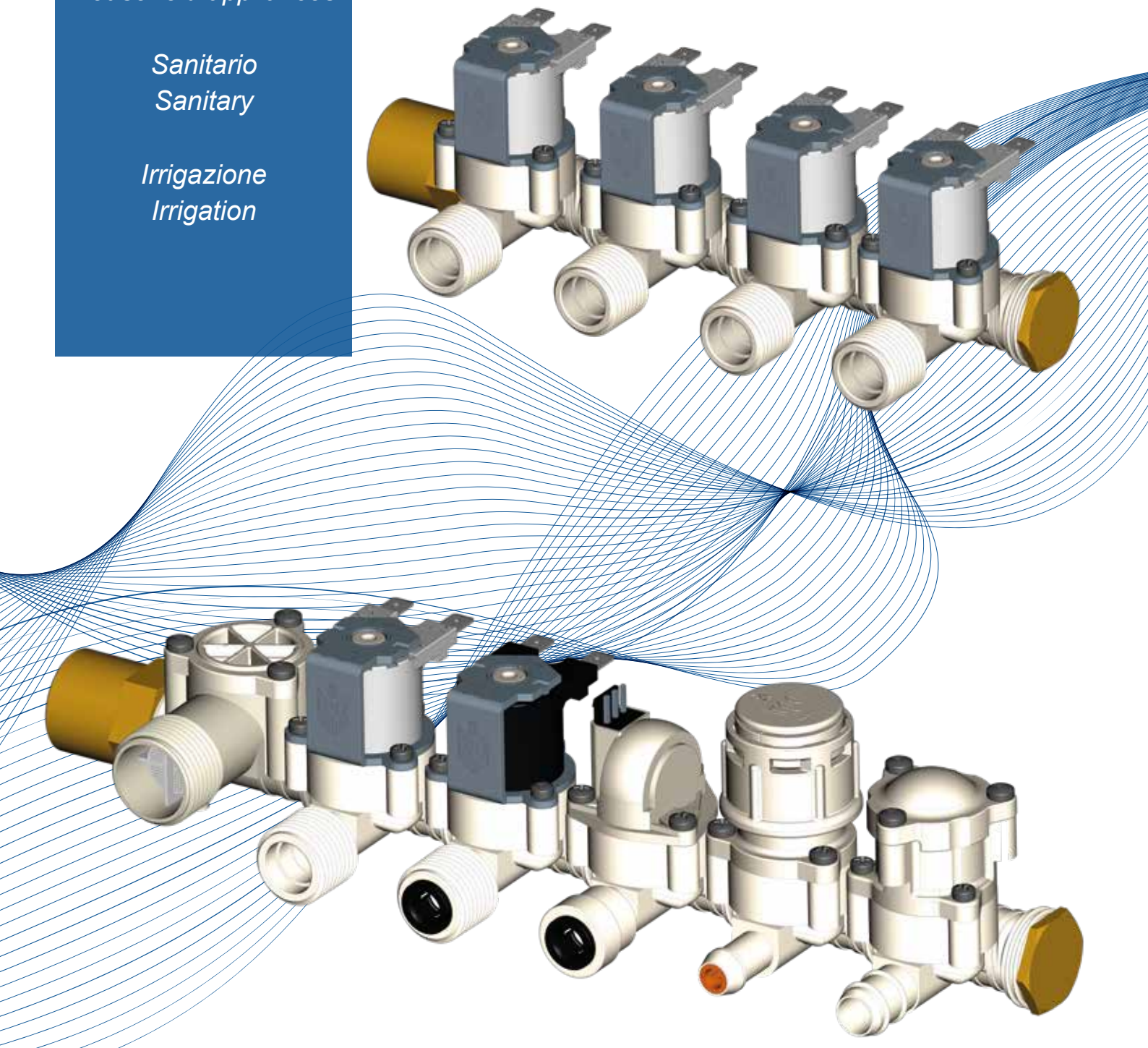
R Series - "Componibile"

Applicazioni / *Applications*

Elettrodomestici
Household appliances

Sanitario
Sanitary

Irrigazione
Irrigation



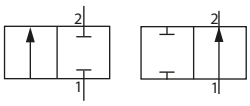
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: NBR, LSR, EPDM
- Nucleo: Acciaio Inox
- Pressione di esercizio: 0,2-10 bar
- Temperatura ambiente: Tu 60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)
- Diametro nominale: DN 11mm

TECHNICAL SPECIFICATIONS

- *Body: PA66 30%GF*
- *Diaphragm: NBR, LSR, EPDM*
- *Core: Stainless Steel*
- *Working pressure: 0,2-10 bar*
- *Room temperature: Tu 60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)*
- *Diametro nominale: DN 11mm / Orifice: DN 11mm*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni / *Wide range of customisations*
- Ideale per applicazioni multi-ingresso e multi-uscita / *Perfect for multi-input and multi-output applications*
- Ideale per applicazioni nel settore sanitario, docce e idromassaggi / *Ideal for sanitary applications, showers and whirlpools*
- Soluzione estremamente compatta e flessibile / *Highly compact and flexible solution*
- Disponibili versioni certificate UL / *UL certified versions available*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie R - Componibile

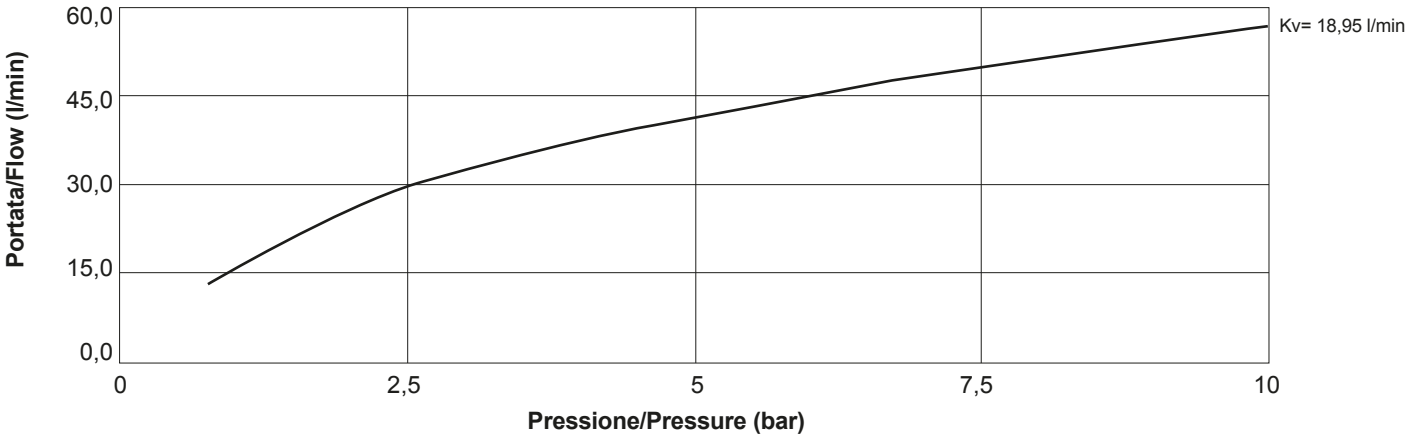
R Series - "Componibile"

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Bobine	Classe F (155˚)	Coils	F class (155˚)
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - Tm 60° C - ED 100%	Fluid temperature	Tm 25° C - Tm 60° C - ED 100%
	Tm 90° C (3 ON - 5 OFF)		Tm 90° C (3 ON - 5 OFF)
Diametro nominale	DN 11mm	Orifice	DN 11mm
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Kv 1 uscita °	18,95 L/min	Kv 1 outlet	18,95 L/min

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm	Unipolar wires max 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires max 5000 mm

GRAFICO PORTATA SERIE R COMPONIBILE (1 USCITA) / *FLOW RATE CHART R SERIES COMPONIBLE (1 OUTLET)*



Modello Model	IN G 3/4" M	OUT	Diametro nominale Nominal diameter	M.O.Q. (pcs)	Filtro Filter (IN)	Regolatore Regulator (IN)	Check valve (IN)	Staffa Bracket	Riduttore Restrictor (OUT)	Check valve (OUT)
103	G 3/4" M	3*	11 mm	18	✓	✓**	✓**		✓**	✓
104	G 3/4" M	4*	11 mm	18	✓	✓**	✓**		✓**	✓**
105	G 3/4" M	5*	11 mm	18	✓	✓**	✓**		✓**	✓**
106	G 3/4" M	6*	11 mm	12	✓	✓**	✓**		✓**	✓**
107	G 3/4" M	7*	11 mm	12	✓	✓**	✓**		✓**	✓**

* Disponibili tutte le connessioni RPE (1/2" M; HOSE 10 mm; HOSE 16 mm; PF 8-10 mm)
* Available with all RPE connections (1/2" M; HOSE 10 mm; HOSE 16 mm; PF 8-10 mm)
** In base alla connessione idraulica scelta / ** According to the hydraulic connection chosen
Legenda / Key: PG = Portagomma / Hose tail PF = Attacco rapido / Quick coupling

RC 104

M.O.Q.:
30 pcs

IN:
3/4 M"

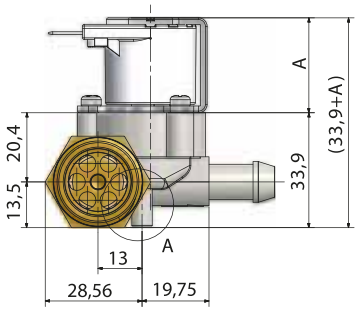
OUT:
4 CONN.
BSP M, PG,
PF

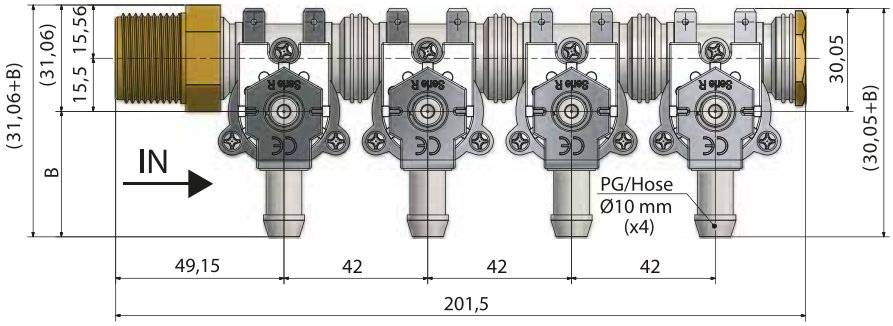
A:
28 NC+Faston

29,2
NC+
Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*





RC 105

M.O.Q.:
30 pcs

IN:
3/4 M"

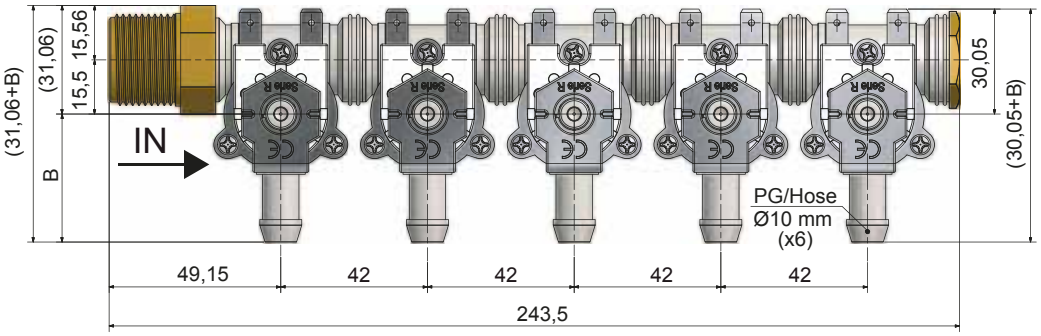
OUT:
5 CONN. BSP M, PG, PF

A:
28 NC+Faston

29,2
NC+
Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



RC 107

M.O.Q.:
12 pcs

IN:
3/4 M"

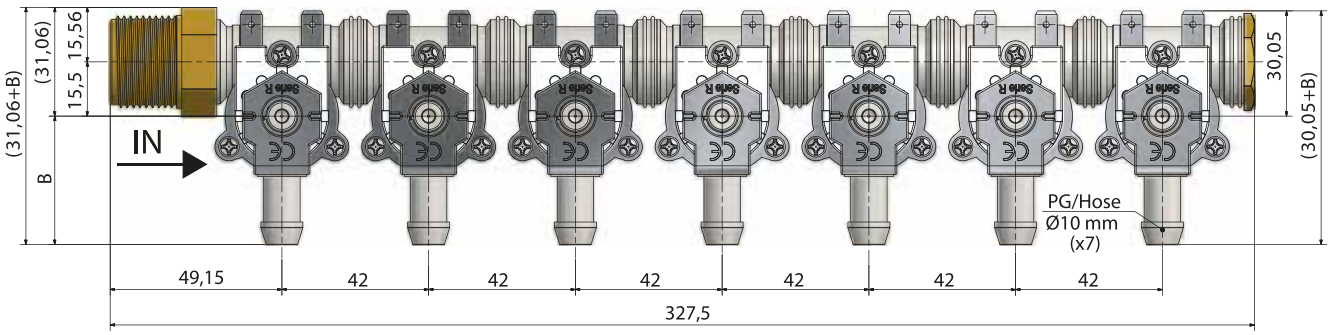
OUT:
7 CONN.
BSP M,
PG, PF

A:
28 NC+
Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



Serie R - Dual

R Series - Dual

Applicazioni / *Applications*

Vapore & Caffè
Coffee & Steam

Elettrodomestici
Household appliances

Bevande e filtrazione
Beverage & filtering

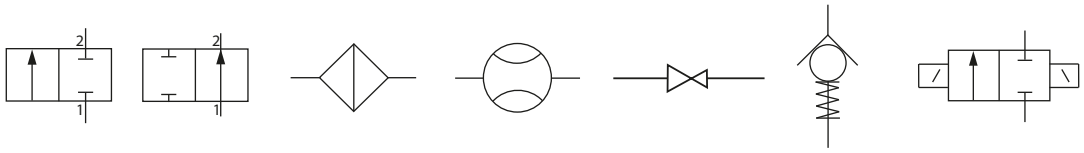
SPECIFICHE TECNICHE

- Pressione di esercizio: 0,2-10 bar / 0-10 bar
- Temperatura ambiente: 0-60°C
- Temperatura fluido: 0-60°C
- DN: 11mm
- Ispezionabile
- Unidirezionale

TECHNICAL SPECIFICATIONS

- *Working pressure 0,2-10 bar / 0-10 bar*
- *Room temperature 0-60°C*
- *Fluid temperature 0-60°C*
- *DN 11 mm*
- *Inspectable*
- *Unidirectional*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Modularità e personalizzazione / *Modularity and customisation*
- Compatibilità con filtri, contalitri e riduttori di pressione Serie R
  Compatibility with filter, flow meter and pressure reducers of R Series
- Disponibilità di corpi con geometria a 90° o 180° / *Available with 90° or 180° geometry*
- Valvole certificate per contatto con alimenti / *Certified valves for food contact*
- Versione con filetto GHT / *GHT thread version*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie R - Dual

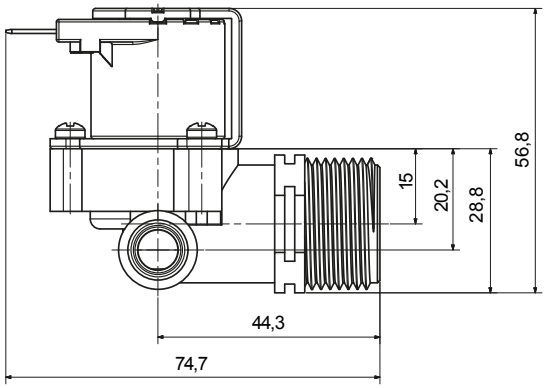
R Series - Dual

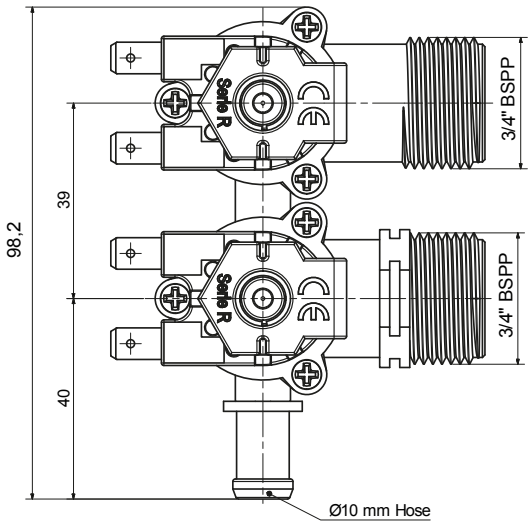
CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Bobine	Classe F (155˚)	Coils	F class (155˚)
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 60° C	Fluid temperature	Tm 60° C
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mmConnettore Reed	Faston 6,3 x 0,8 mm Reed
Cavi unipolari max 5000 mm	Unipolar wires max 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires max 5000 mm

R Dual 246



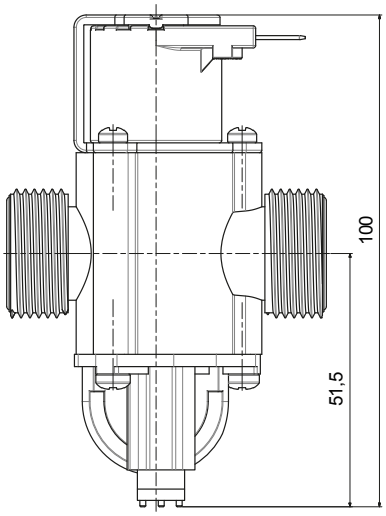


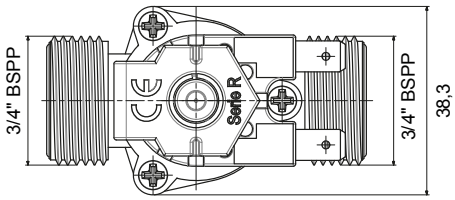
	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	NO
IN	G 3/4" M	SÌ	NO	SÌ	NO
OUT	PG 10 mm	NO	SI	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓	✓	✓
Rid. di pressione Pressure restr.	✓	✓	✓	✓
Contalitri Flow meter	✓	✓	✓	✓
Filtro Filter	✓	✓	✓	✓

Legenda / Key PG = Portagomma / Hose tail

R Dual 004

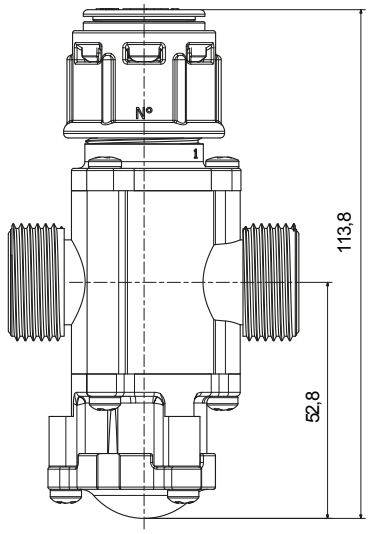


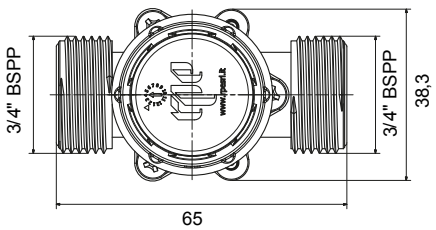


	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	NO	NO	NO	NO
OUT	G 3/4" M	NO	NO	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	x	x	0	✓
Rid. di pressione Pressure restr.	x	x	0	✓
Contalitri Flow meter	x	x	0	✓
Filtro Filter	x	x	0	0

R Dual 005

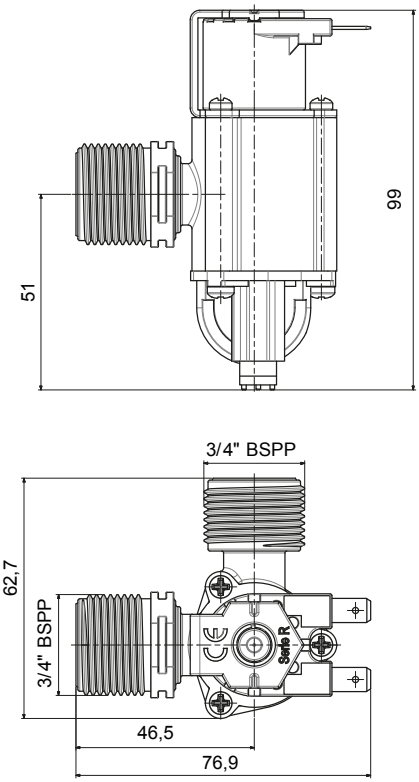




	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	NO	NO	NO	NO
OUT	G 3/4" M	NO	NO	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	x	x	x	x
Rid. di pressione Pressure restr.	x	x	x	x
Contalitri Flow meter	✓	✓	0	✓
Filtro Filter	✓	✓	0	0

R Dual 0A0

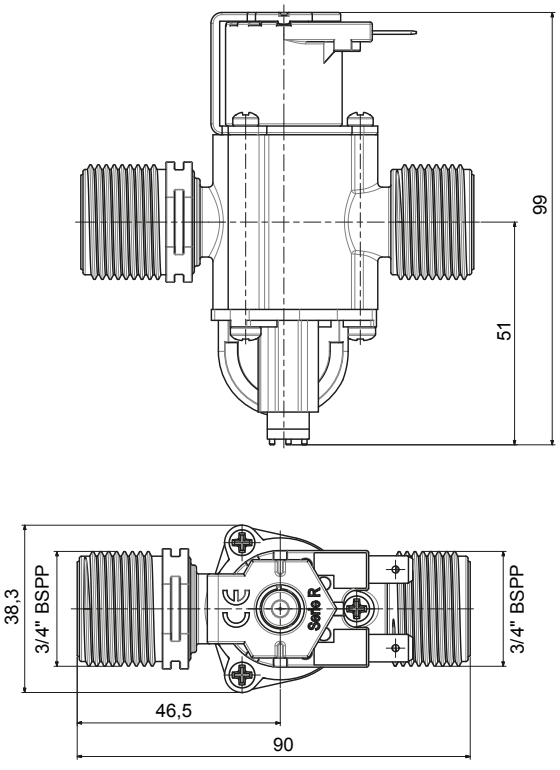


	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	SÌ
OUT	G 3/4" M	NO	NO	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	X	X	0	✓
Rid. di pressione Pressure restr.	X	X	0	✓
Contalitri Flow meter	X	X	0	✓
Filtro Filter	X	X	0	0

Legenda / Key PG = Portagomma / Hose tail

R Dual 0B0

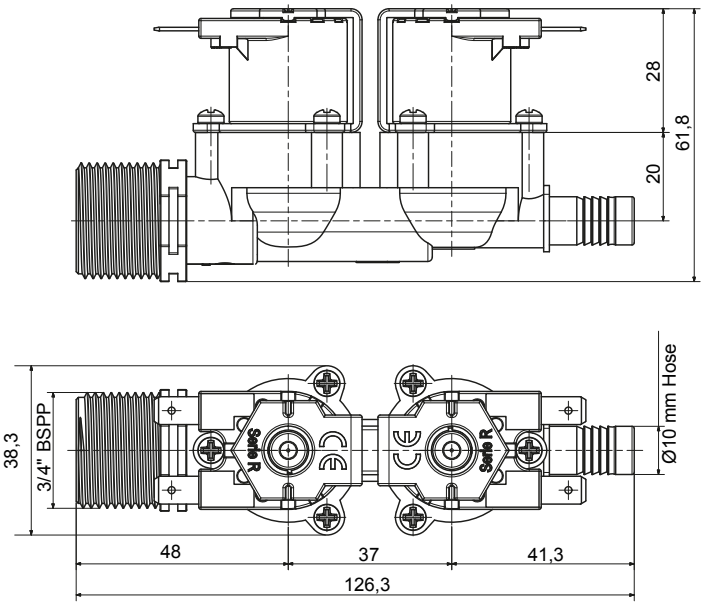


	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	SÌ
OUT	G 3/4" M	NO	NO	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	X	X	0	✓
Rid. di pressione Pressure restr.	X	X	0	✓
Contalitri Flow meter	X	X	0	✓
Filtro Filter	X	X	0	0

Legenda / Key PG = Portagomma / Hose tail

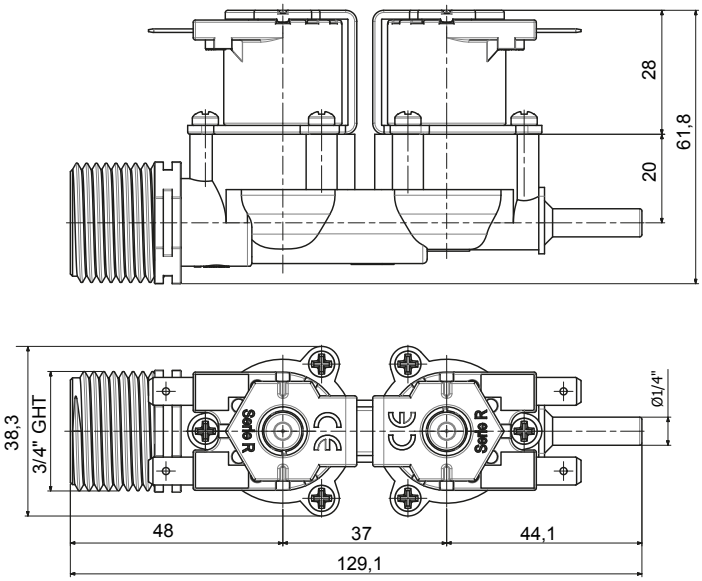
R Dual 257



	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	SÌ
OUT	Codolo 10 mm	NO	SÌ	NO	SÌ

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓	0	✓
Rid. di pressione Pressure restr.	✓	x	0	✓
Contalitri Flow meter	✓	✓	0	✓
Filtro Filter	✓	✓	0	0

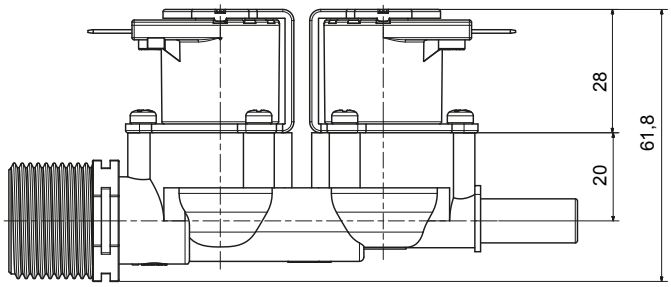
R Dual 277

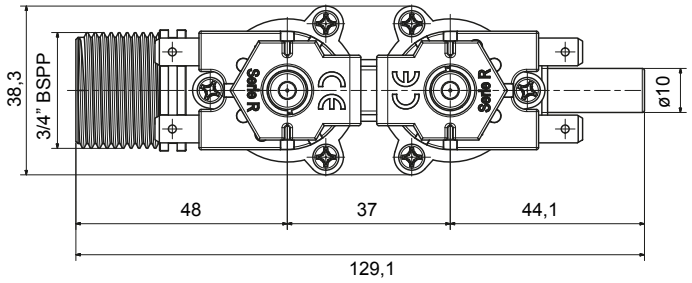


	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	GHT 3/4" M	SÌ	NO	SÌ	SÌ
OUT	Codolo 1/4"	NO	NO	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓	0	✓
Rid. di pressione Pressure restr.	✓	x	0	✓
Contalitri Flow meter	✓	✓	0	✓
Filtro Filter	✓	✓	0	0

R Dual 266



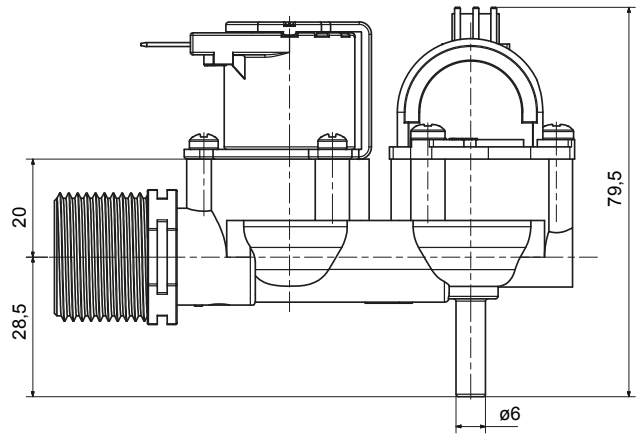


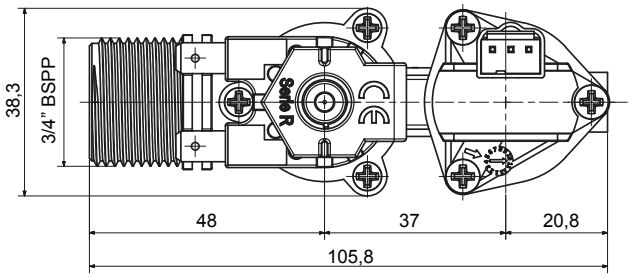
	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	SÌ
OUT	PG 10 mm	NO	SI	NO	SÌ

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓	0	✓
Rid. di pressione Pressure restr.	✓	X	0	✓
Contalitri Flow meter	✓	✓	0	✓
Filtro Filter	✓	✓	0	0

Legenda / Key PG = Portagomma / Hose tail

R Dual 278





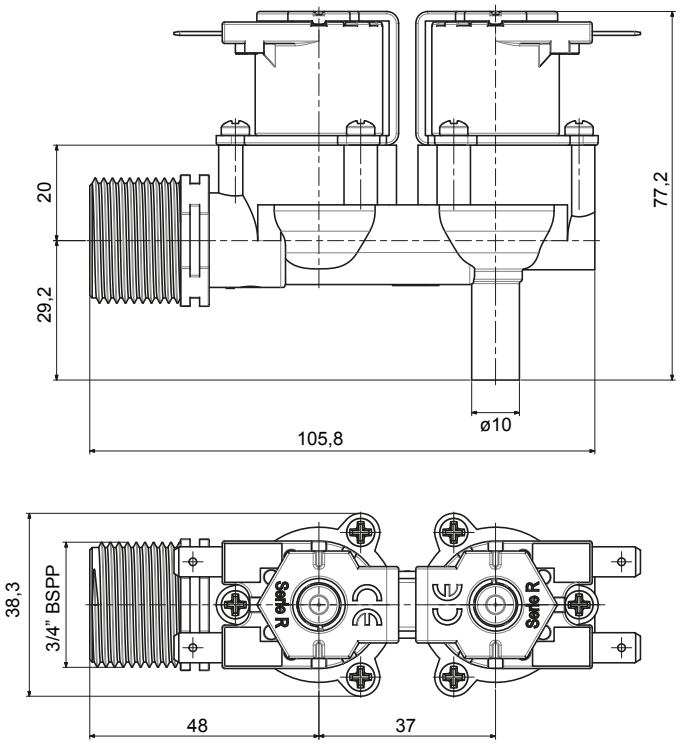
	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	SÌ
OUT	Codolo 6 mm	NO	NO	NO	SÌ

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	X	✓	X	✓
Rid. di pressione Pressure restr.	X	X	X	✓
Contalitri Flow meter	X	✓	0	✓
Filtro Filter	X	✓	0	0

Legenda / Key PG = Codolo / Spigot

Misure in millimetri - Dimensions in millimeters

R Dual 281

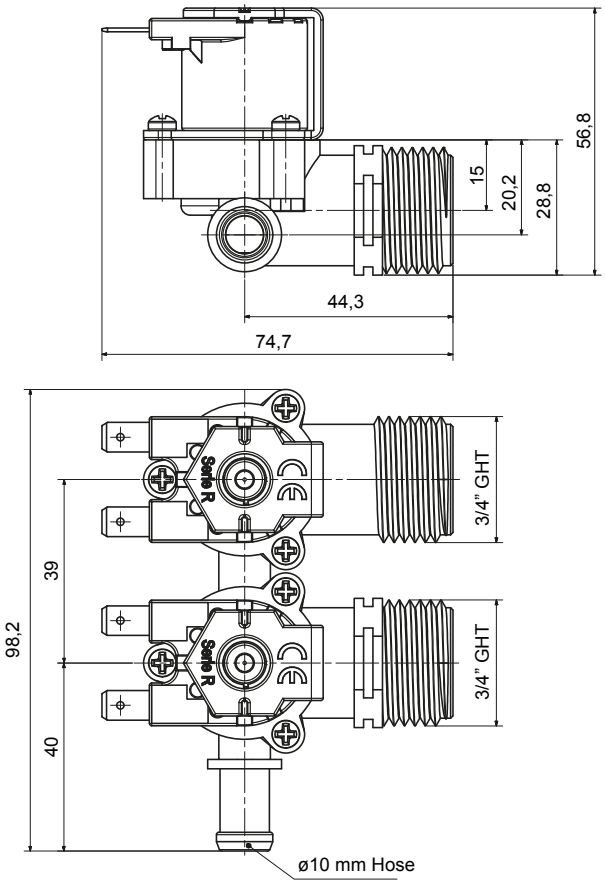


	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	G 3/4" M	SÌ	NO	SÌ	SÌ
OUT	Codolo 10 mm	NO	NO	NO	SÌ

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓	0	✓
Rid. di pressione Pressure restr.	✓	x	0	✓
Contalitri Flow meter	✓	✓	0	✓
Filtro Filter	✓	✓	0	0

Legenda / Key PG = Codolo / Spigot

R Dual 243



	Conness. Connect.	Reg. di flusso Flow regulator	Rid. di portata Flow restrictor	Filtro Filter	Check Valve
IN	GHT 3/4" M GHT	SÌ	NO	SÌ	NO
IN	GHT 3/4" M GHT	SÌ	NO	SÌ	NO
OUT	Codolo 1/4"	NO	SÌ	NO	NO

P1 \ P2	Pilota Pilot	Rid. di pressione Pressure restr.	Filtro Filter	Contalitri Flow meter
Pilota Pilot	✓	✓	✓	✓
Rid. di pressione Pressure restr.	✓	✓	✓	✓
Contalitri Flow meter	✓	✓	✓	✓
Filtro Filter	✓	✓	✓	✓

Legenda / Key PG = Portagomma / Hose tail

Serie R - Universale
R Series - Universal

Applicazioni / *Applications*

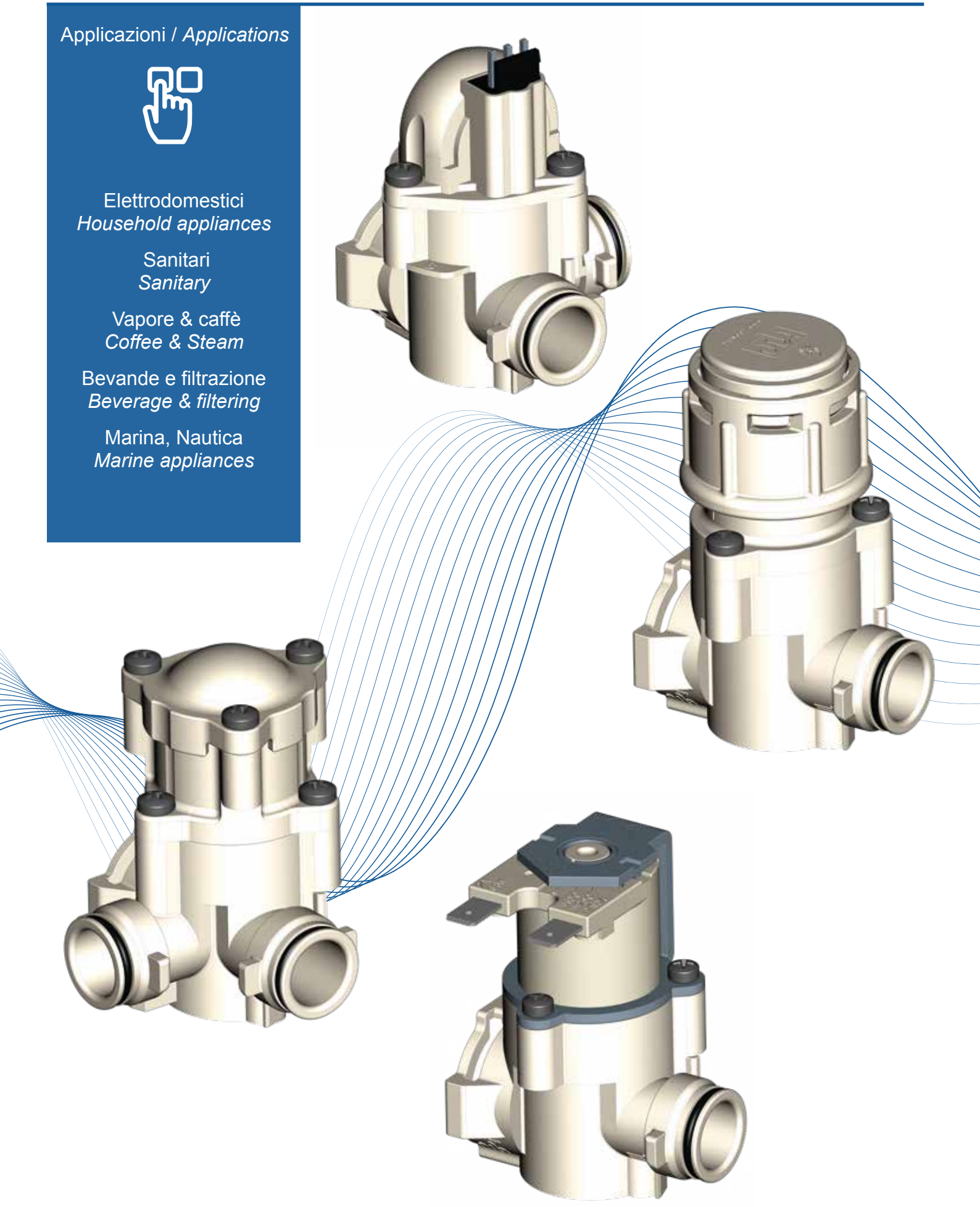
Elettrodomestici
Household appliances

Sanitari
Sanitary

Vapore & caffè
Coffee & Steam

Bevande e filtrazione
Beverage & filtering

Marina, Nautica
Marine appliances



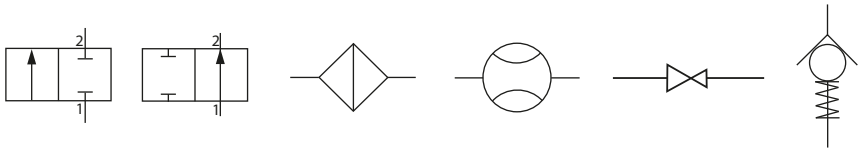
SPECIFICHE TECNICHE

- Corpo valvola: PA 66 30%FV
- Membrana: NBR, LSR, EPDM
- Pressione di esercizio: 0,2-10 bar / 0-10 bar
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON – 5 min OFF)
- Temperatura ambiente: Tu 60°C

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR, LSR, EPDM*
- *Working pressure: 0,2-10 bar / 0-10 bar*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100% Tm 90°C (3 min ON - 5 min OFF)*
- *Room temperature: Tu 60°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni (regolatori, riduttori, cavi…)
  Wide range of customisations (regulators, reducers, cables…)
- Ideale per applicazioni multi-uscita / *Ideal for multi-output applications*
- Valvole certificate per contatto con alimenti / *Certified valves for food contact*
- Soluzione estremamente compatta e flessibile / *Highly compact and flexible solution*
- Disponibili versioni certificate UL per mercato Nord Americano
  UL certified versions for the North American market available

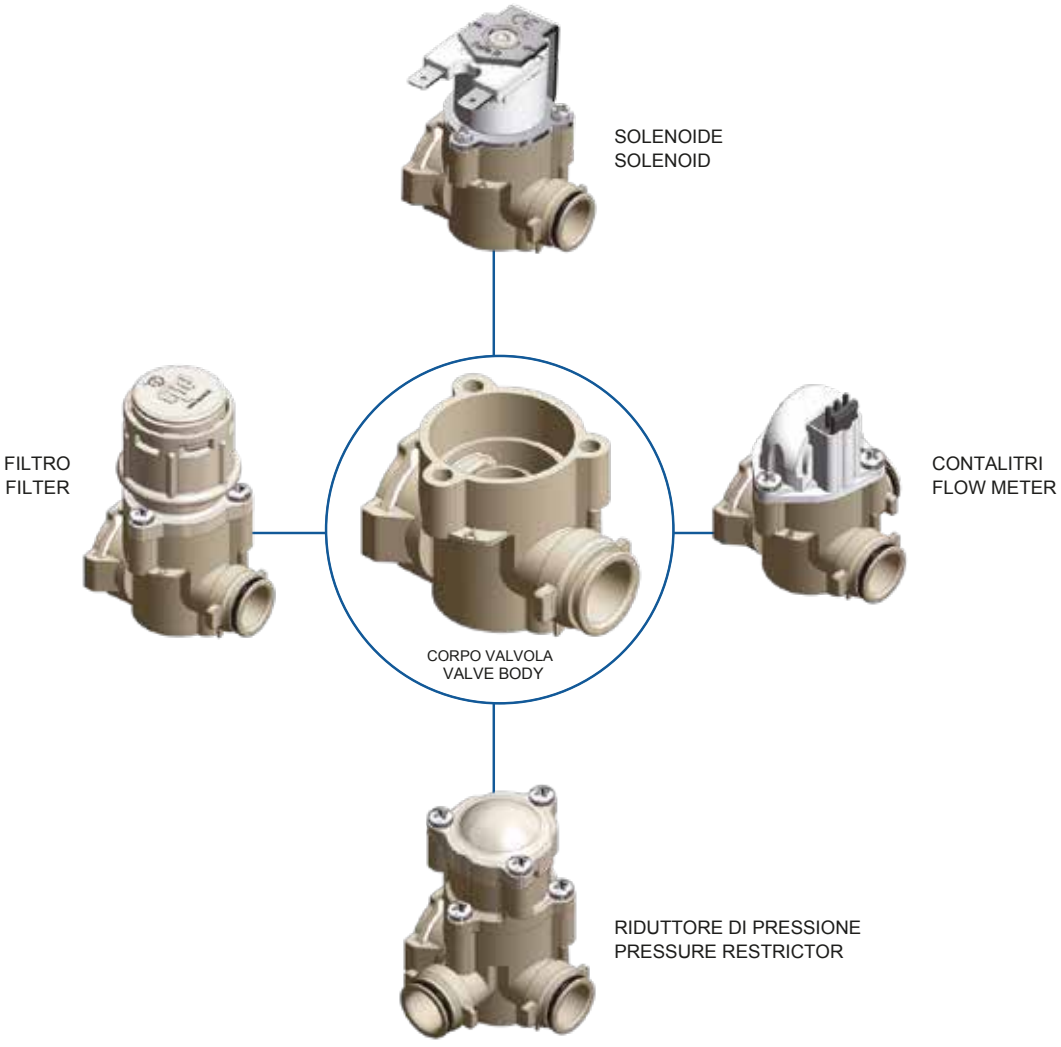
CERTIFICAZIONI / *CERTIFICATION*

Serie R - Universale
R Series - Universal

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PA 66 30% FV	Valve body	PA 66 30% GF
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Bobine	Classe F (155˚)	Coils	F class (155˚)
Assemblaggio	Con viti, ispezionabile	Assembly	With screws, serviceable

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - Tm 60° C - ED 100%	Fluid temperature	Tm 25° C - Tm 60° C - ED 100%
	Tm 90° C (3 ON - 5 OFF)		Tm 90° C (3 ON - 5 OFF)
Diametro nominale	DN 11mm	Orifice	DN 11mm
Comando	NC; NA; Bistabile	Control	NC; NA; Bistabile
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Kv	Vedi pagine succesive	Kv	See next pages

CONNESSIONI IDRAULICHE		*HYDRAULIC CONNECTIONS*	
Ingresso corpo	Baionetta	Valve body Inlet	Bayonet
Uscita corpo	Baionetta	Valve body Outlet	Bayonet
Connessioni	Varie	Connections	Various



FUNZIONE
FUNCTION


SOLENOIDE
SOLENOID


CONTALITRI
FLOW METER


FILTRO
FILTER


RIDUTTORE DI PRESSIONE
PRESSURE RESTRICTOR

CORPO
BODY


CORPO A
VALVE BODY A


CORPO B
VALVE BODY B


CORPO D
VALVE BODY D


CORPO C
VALVE BODY C

CONNESSIONI
CONNECTIONS


1/2" M (IN)


PF 10 MM (IN)


1/2" M (OUT)


PF 10 MM (OUT)

ACCESSORI
ACCESSORIES

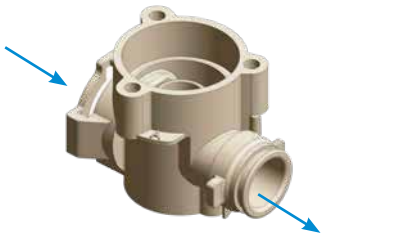

REG. DI FLUSSO IN ENTRATA
INLET FLOW REGULATOR


RID. DI PORTATA IN USCITA
OUTLET FLOW RESTRICTOR


CHECK
VALVE

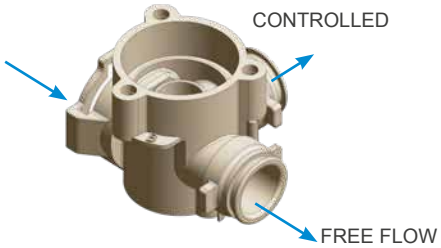

FILTRO
FILTER

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	Corpo valvola A	Model	Valve body A
Uscita	1 controllata	Outlet	1 controlled



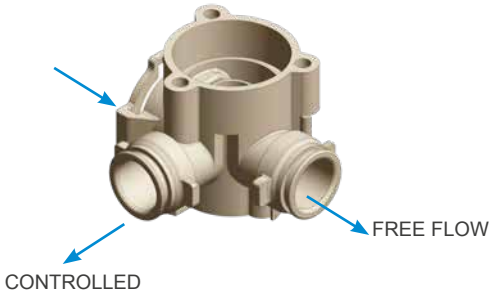
A

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	Corpo valvola B	Model	Valve body B
Uscita	1 passante	Outlet	1 free flow
	1 controllata		1 controlled



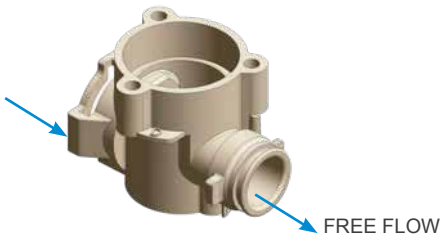
B

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	Corpo valvola C	Model	Valve body C
Uscita	1 passante	Outlet	1 free flow
	1 controllata		1 controlled



C

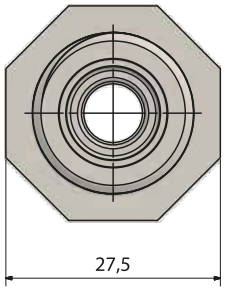
CARATTERISTICHE		*SPECIFICATIONS*	
Modello	Corpo valvola D	Model	Valve body D
Uscita	1 passante	Outlet	1 free flow

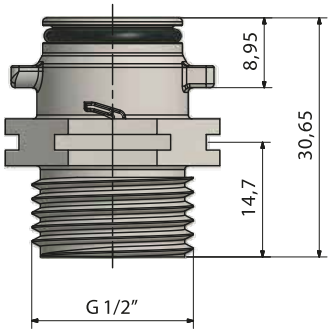


D

G 1/2" M IN

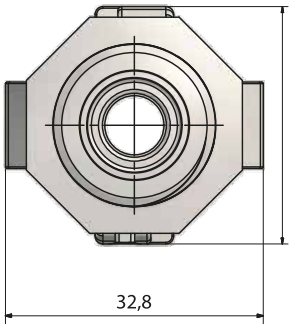
M.O.Q.:
20 pcs

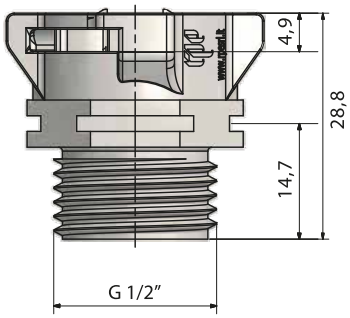




G 1/2" M OUT

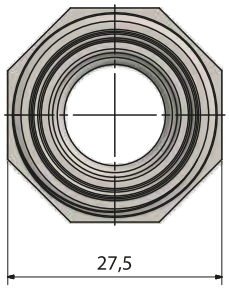
M.O.Q.:
20 pcs

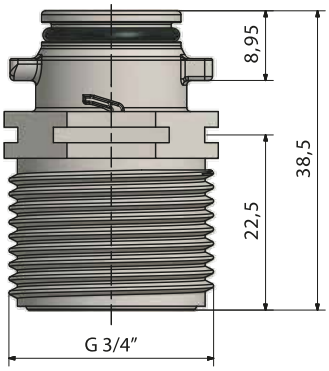




G 3/4" M IN

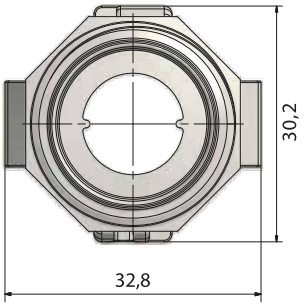
M.O.Q.:
20 pcs

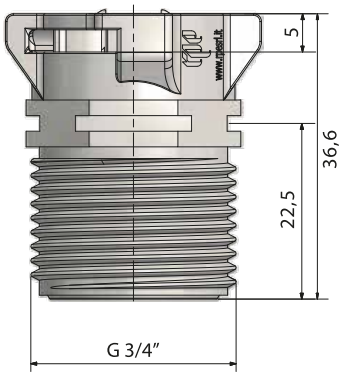




G 3/4" M OUT

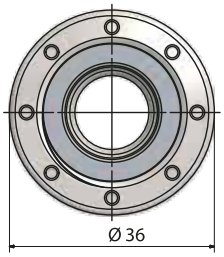
M.O.Q.:
20 pcs

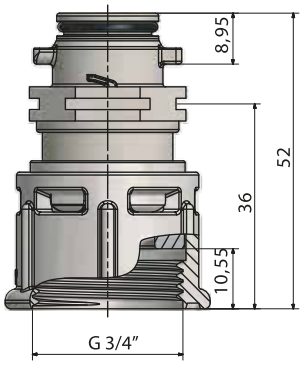




G 3/4" F IN

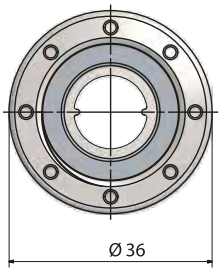
M.O.Q.:
20 pcs

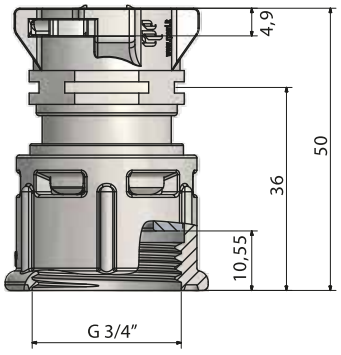




G 3/4" F OUT

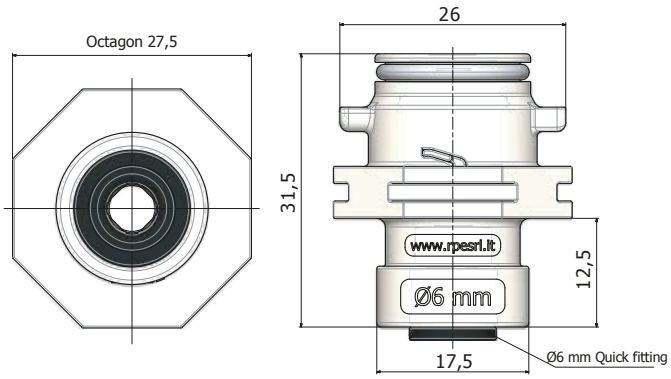
M.O.Q.:
20 pcs





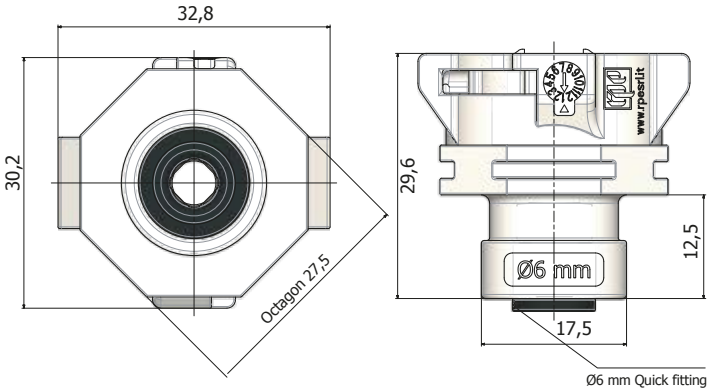
PF 6 mm IN

M.O.Q.:
20 pcs



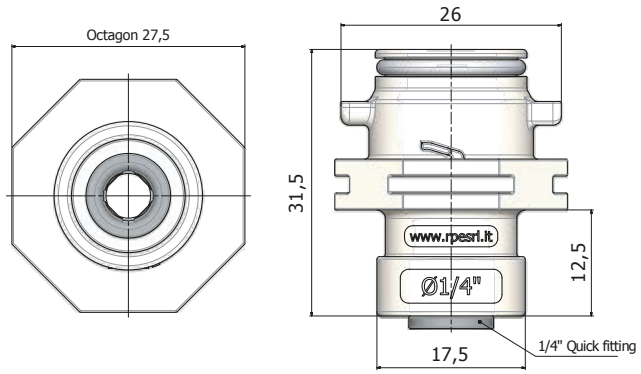
PF 6 mm OUT

M.O.Q.:
20 pcs



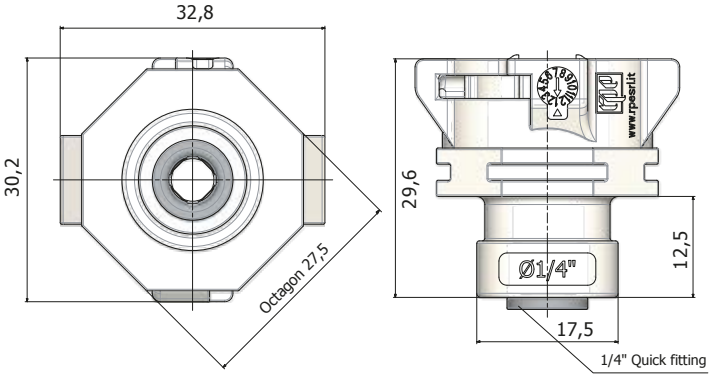
PF 1/4" mm IN

M.O.Q.:
20 pcs



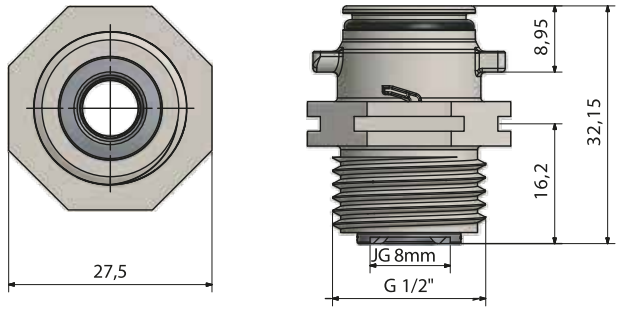
PF 1/4" mm OUT

M.O.Q.:
20 pcs



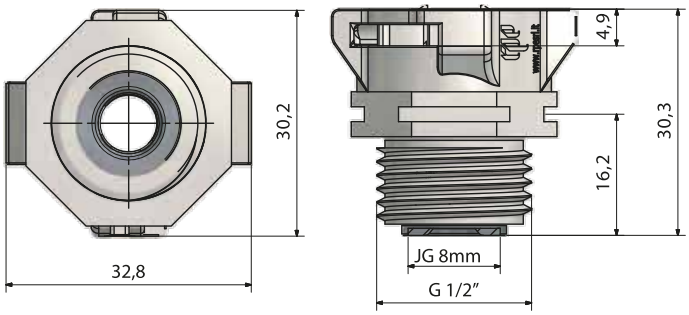
PF 8 mm IN

M.O.Q.:
20 pcs



PF 8 mm OUT

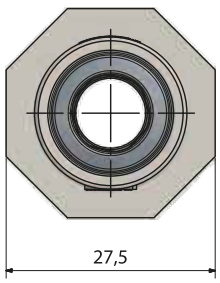
M.O.Q.:
20 pcs

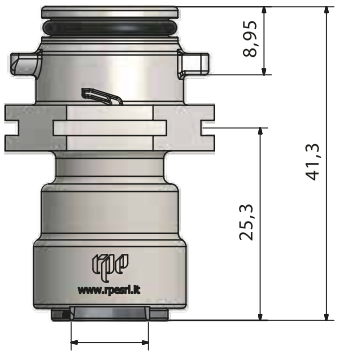


Misure in millimetri - Dimensions in millimeters

PF 10 mm IN

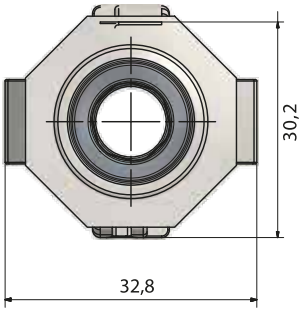
M.O.Q.:
20 pcs

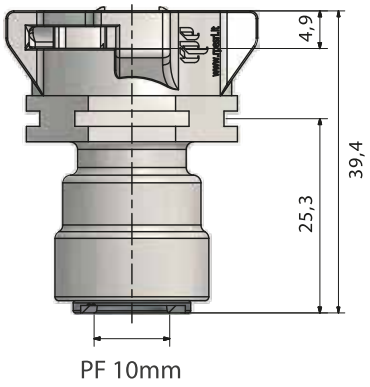




PF 10 mm OUT

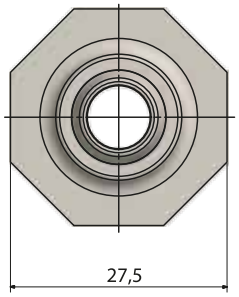
M.O.Q.:
20 pcs

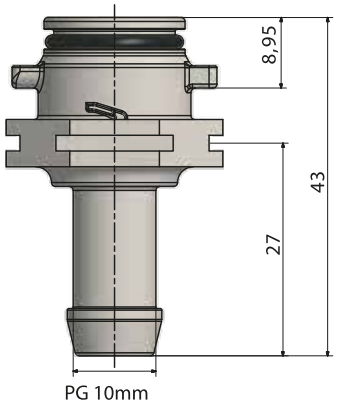




PG 10 mm IN — Hose Tail 10 mm IN

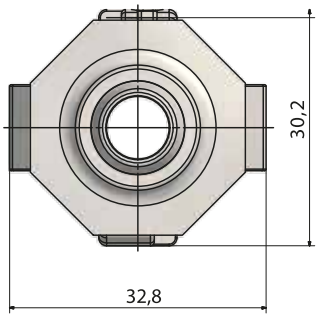
M.O.Q.:
20 pcs

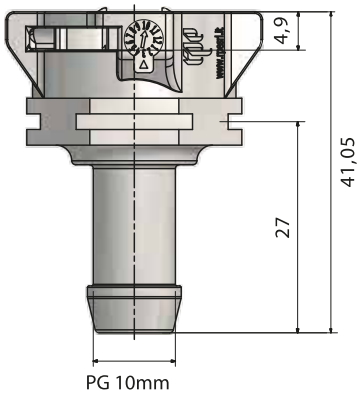




PG 10 mm OUT — Hose Tail 10 mm OUT

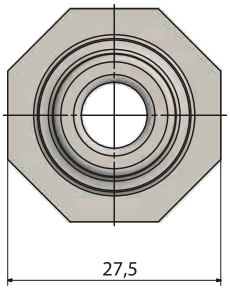
M.O.Q.:
20 pcs

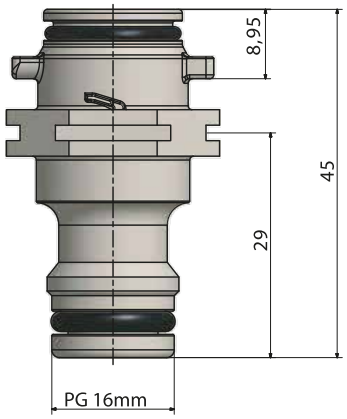




PG 16 mm IN — Hose Tail 16 mm IN

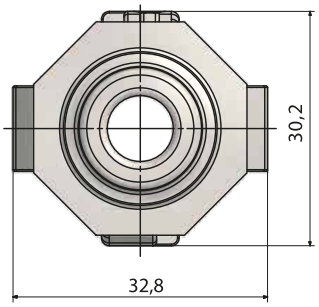
M.O.Q.:
20 pcs

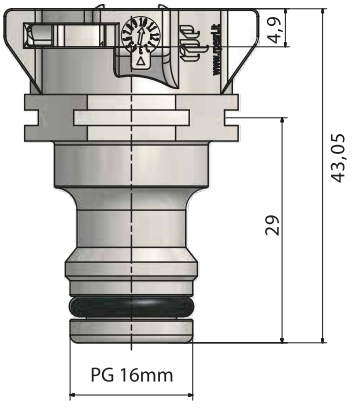




PG 16 mm OUT — Hose Tail 16 mm OUT

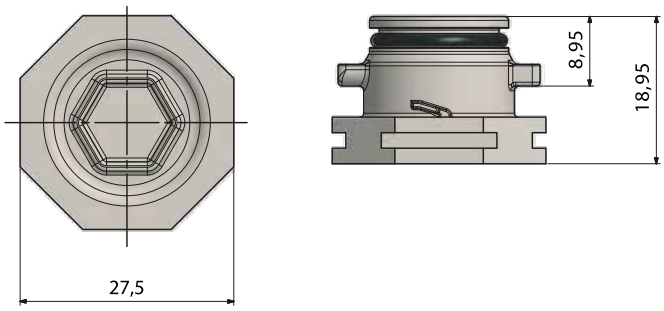
M.O.Q.:
20 pcs





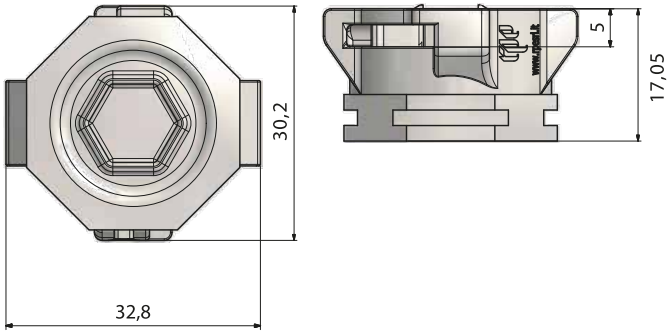
TAPPO IN / *CAP IN*

M.O.Q.:
20 pcs



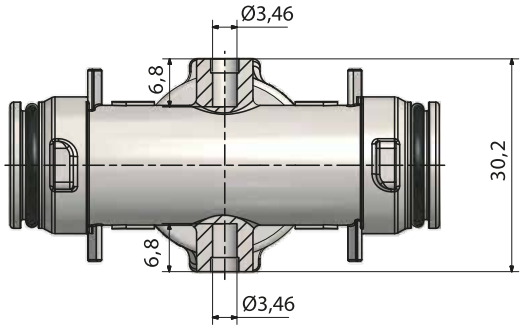
TAPPO OUT / *CAP OUT*

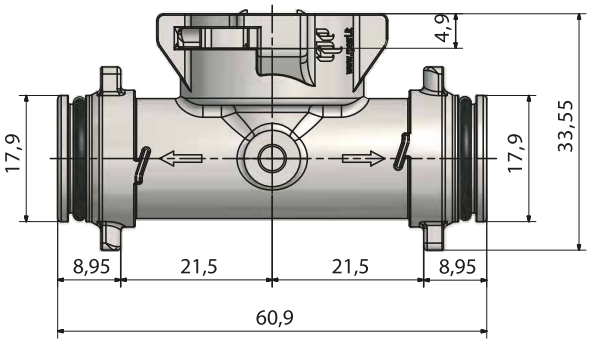
M.O.Q.:
20 pcs



RACCORDO A T MFM / *T-FITTING MFM*

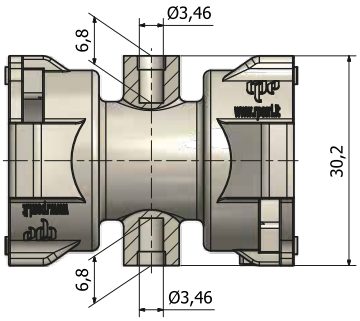
M.O.Q.:
20 pcs

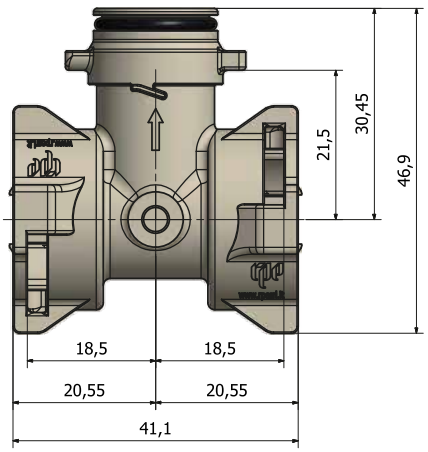




RACCORDO A T FMF / *T-FITTING FMF*

M.O.Q.:
20 pcs

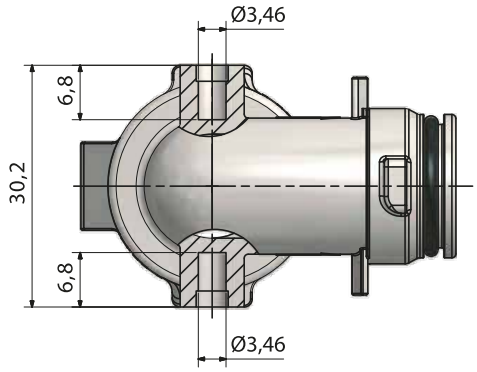


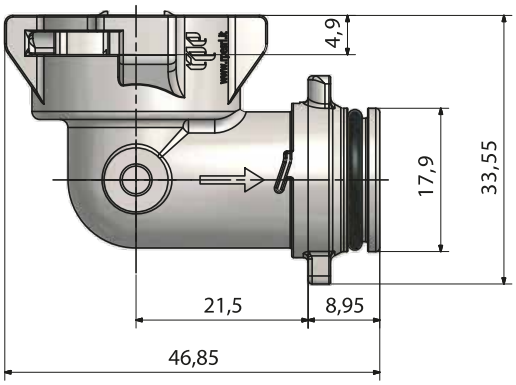


Misure in millimetri - Dimensions in millimeters

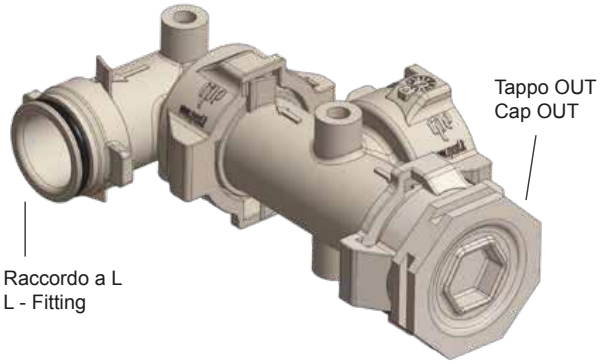
RACCORDO A L / *L-FITTING*

M.O.Q.:
20 pcs





ESEMPIO DI CONNESSIONI ASSEMBLATE / *EXAMPLE OF ASSEMBLED CONNECTIONS*

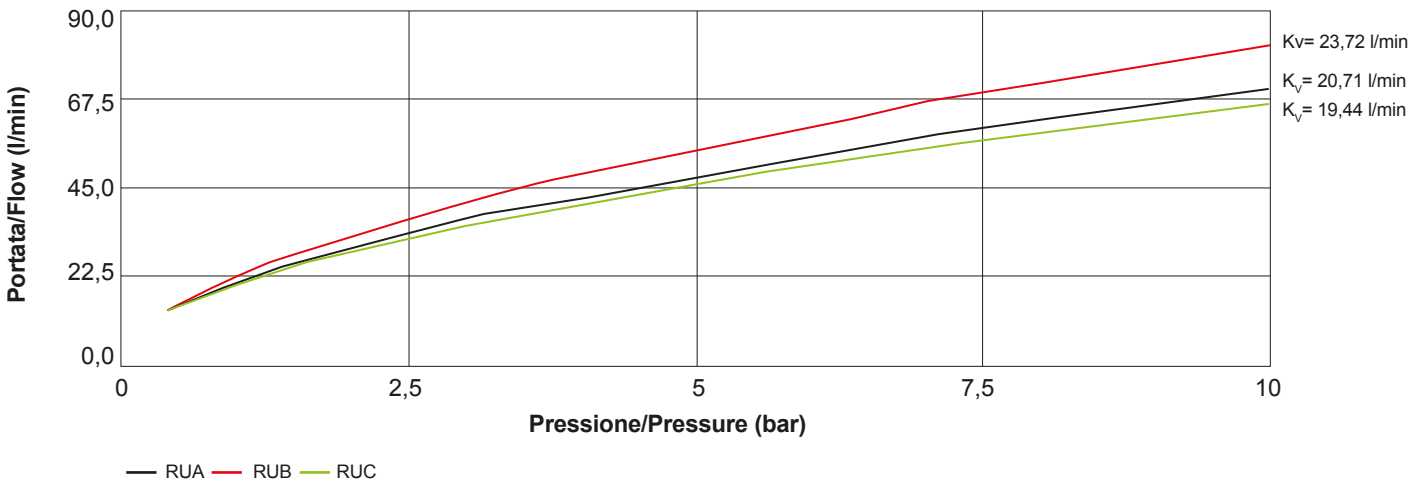


Serie R - Universale
R Series - Universal

CARATTERISTICHE — *SPECIFICATIONS*

Modello	Corpo + Bobina	Model	Body + Coil
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Bobine	Classe F (155°)	Coils	F Class (155°)
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Conn. elettriche	Faston 6,3 x 0,8 mm	Electrical conn.	Faston 6,3 x 0,8 mm
	Cavi unip.		Unipolar wires
	max 5000 mm		max 5000 mm
	Cavi bipolari		Bipolar wires
	max 5000 mm		max 5000 mm

GRAFICO PORTATE / *FLOW RATES CHART*



CORPO A + BOBINA A / *BODY + COIL*

M.O.Q.:
40 pcs

IN:
Attacco Baionetta
Femmina/*Female*
Bayonet connection

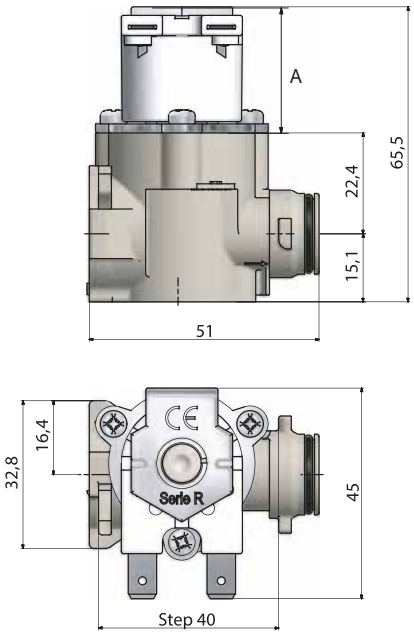
OUT:
Attacco Baionetta
Maschio/*Male*
Bayonet connection

A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



CORPO B + BOBINA B / *BODY + COIL*

M.O.Q.:
40 pcs

IN:
Attacco Baionetta
Femmina/*Female*
Bayonet connection

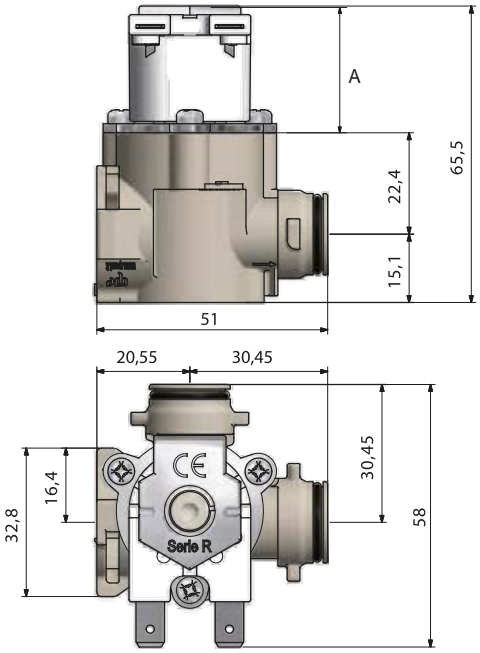
OUT:
Attacco Baionetta
Maschio/*Male*
Bayonet connection

A:
28 NC+Faston

29,2
NC+Cavi/*Cable*

47,2 NA/NO

38,3
Bistabile/*Latching*



Misure in millimetri - Dimensions in millimeters

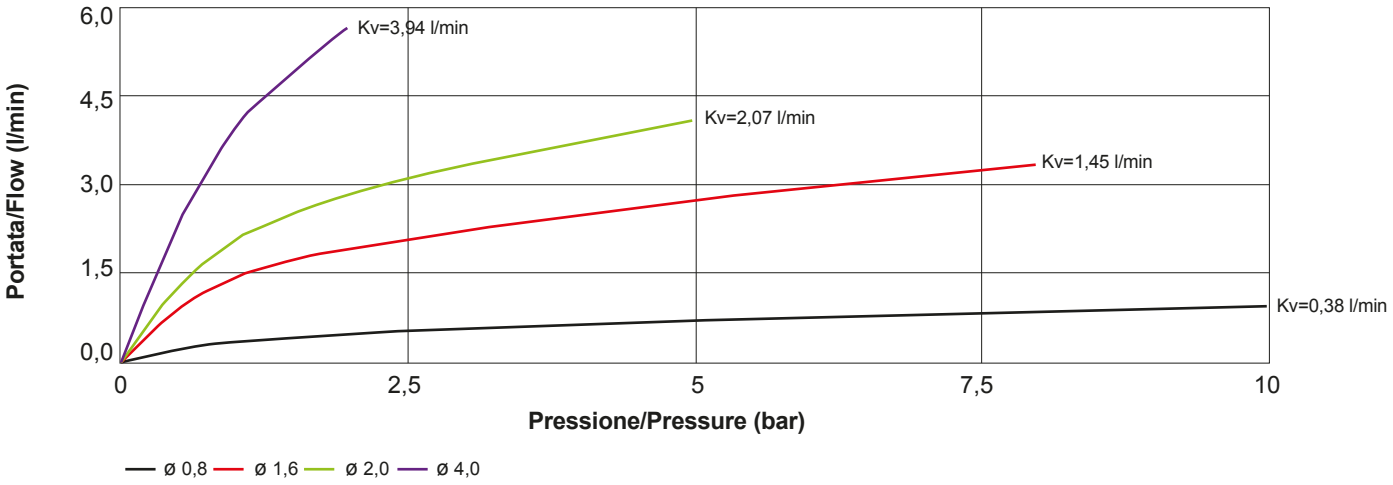
			POTENZA POWER		ASSORBIMENTO CONSUPTION				CONNESSIONI CONNECTIONS		CONTROLLO CONTROL		
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. Holding Power	Potenza di spunto In Rush Power	Assorbim. (mA) in mantenimento Holding Current	Assorbim. (mA) in spunto In Rush Current	cos φ	ED (funzionamento) (duty cycle)	Faston (F) Cavi (wires)*** Unipolari (C)	Cavi (wires)*** bipolari (in mm)	Approvazioni Approvals	NC	NA** (NO)
1	12 V AC	50 HZ 60 HZ	5 VA 4,5 VA	5,9 VA 5,4 VA	429 mA 382 mA	490 mA 440 mA	0,63 0,57	100%	F			✓	✓
2	12 V AC/ DC	50 HZ 60 HZ =	4,4 VA 4,1 VA 8,5 W	5,2 VA 4,6 VA /	365 mA 340 mA 710 mA	433 mA 383 mA /	0,65 0,59 /	100%	F, C	2500	Enec	✓	✓
3	12 V AC/ DC	50 HZ 60 HZ =	4,4 VA 4,1 VA 8,5 W	5,2 VA 4,6 VA /	365 mA 340 mA 710 mA	433 mA 383 mA /	0,65 0,59 /	100%	F, C	2500	Enec, GW	✓	✓
4	12 V DC	=	5,4 W	/	450 mA	/	/	100%	F, C		Enec	✓	✓
5	12 V DC	=	5,4 W	/	450 mA	/	/	100%	F, C		Enec, GW	✓	✓
6	12 V DC (B.A.)	=	3,2 W	/	300 mA	/	/	100%	F, C			✓	✓
7	24 V AC	50 HZ 60 HZ	7,2 VA 6,5 VA	8,1 VA 7,3 VA	302 mA 270 mA	337 mA 305 mA	0,65 0,60	100%	F, C	620, 2500	Enec	✓	✓
8	24 V AC	50 HZ 60 HZ	7,2 VA 6,5 VA	8,1 VA 7,3 VA	302 mA 270 mA	337 mA 305 mA	0,65 0,60	100%	F		Enec, UL	✓	✓
9	24 V DC (B.A.)	=	3,2 W	/	134 mA	/	/	100%	F, C	1000, 1450, 2000, 2500		✓	✓
10	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F, C		Enec	✓	✓
11	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F, C		Enec, GW, UL	✓	✓
12	L6V DC	=	2,25 W (15ms)	/	375 mA	/	/	Bistabile Latching	F, C			Bistabile Latching	
13	100/120 V AC	50 HZ 60 HZ	8 VA	8,8 VA 7,9 VA	70 mA 63 mA	80 mA 72 mA	0,66 0,60	100%	F		UL	✓	✓
14	220/240 V AC	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%	F, C	620	Enec	✓	✓
15	220/240 V AC	50 HZ 60 HZ	12,65 VA 10,71 VA	13 VA 11,61 VA	55 mA 46 mA	58 mA 51 mA	0,69 0,61	3 min ON 5 min OFF	F, C	620	Enec	✓	✓
16	220/240 V AC	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%	F		UL	✓	✓
17	230V AC	50 HZ 60 HZ	8,4 VA 7,6 VA	9,7 VA 8,3 VA	36,5 mA 33 mA	42 mA 36 mA	0,74 0,70	100%	F, C	620, 1000, 1450, 2000, 2500	Enec	✓	✓
18*	230V AC	50 HZ 60 HZ	8,4 VA 7,6 VA	9,7 VA 8,3 VA	36,5 mA 33 mA	42 mA 36 mA	0,74 0,70	100%	F, C		Enec	✓	✓
19	220/240 V	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%			Enec	✓	✓
20	100/120 V	50 HZ 60 HZ	5 VA	/	50 mA	/	/	100%			Enec	✓	✓
21	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F		UL	✓	✓
22	12 V	50 HZ 60 HZ	4,38 VA	5,15 VA	360 mA	430 mA	/	100%	F		UL	✓	✓
23****	220/240 V AC	50 HZ 60 HZ	6,6 VA 6,3 VA	7,6 VA 6,7 VA	29,7 mA 27 mA	33 mA 29 mA	0,71 0,67	100%	F		Enec	✓	✓
24	24V DC	=	11,8 W	/	491 mA	/	/	50%	F		GW	✓	✓
25	24V DC	=	8 W	/	335 mA	/	/	100%	F		Enec	✓	✓
26	24V DC	=	8 W	/	335mA	/	/	100%	F		UL	✓	✓
27	L9V DC L12V DC	=	2,75 W (15ms) 4,9 W (15ms)	/	310mA 410mA	/	/	Bistabile Latching	F, C			Bistabile Latching	
28	L24V DC	=	2,35 W (15ms)	/	100mA	/	/	Bistabile Latching	F, C			Bistabile Latching	
29	L3V DC	=	2,25 W (15ms)	/	790mA	/	/	Bistabile Latching	F, C			Bistabile Latching	

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: GlowWire
ED: Funzionamento (*Duty Cycles*) = 100%

Approvazioni Approvals: ENEC, UL, GW
Faston: IP X0
Cavi (*wires*): IP 55
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F
Tipo faston (*Faston type*): 6,30x0,8mm

(*) Materiali approvati UL / *UL approved materials*
(**) I solenoidi NA non sono disponibili con cavi bipolari / *NO solenoids are not available with bipolar wires*
(***) I solenoidi unipolari e bipolari sono disponibili per le valvole della SERIE R DOPPIA, TRIPLA e QUADRUPLA
Solenoids with unipolar or bipolar wires are not available for R DOUBLE, TRIPLE or QUADRUPLE SERIES

GRAFICO PORTATE PILOTI DIRETTI / *FLOW RATES CHART DIRECT PILOT*



Tensione Voltage	230 V AC	24 V AC	24 V DC	12 V AC-DC (AC)	12 VAC-DC (AC)	12V DC	220-240 V AC	110 V
Frequenza Frequency	50 HZ 60 HZ	50 HZ 60 HZ	=	50 HZ 60 HZ	=	=	50 HZ 60 HZ	50 HZ 60 HZ
Assorbimento Consuption	36,5 mA	302 mA	265 mA	365 mA	710 mA	450 mA	55 mA	70 mA 63 mA
Potenza Power	8,39 VA	7,24 VA	6,35 W	4,38 VA	8,52 W	5,4 W	12,65 VA	8 VA
ED (funzionamento) (duty cycle)	ED 100%	ED 100%	ED 100%	ED 100%	ED 100%	ED 100%	3 min ON 5 min OFF	ED 100%
	⬇	⬇	⬇	⬇	⬇	⬇	⬇	⬇
Pressione Pressure								
Ø 0,8 mm	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 ÷ 10 bar	0 - 10 bar
Ø 1,6 mm	0 ÷ 4 bar	0 ÷ 4 bar	0 ÷ 2,5 bar	0 ÷ 2 bar	0 ÷ 4 bar	0 ÷ 3 bar	0 ÷ 8 bar	0 - 2,5 bar
Ø 2 mm	0 ÷ 2,5 bar	0 ÷ 2,5 bar	0 ÷ 2 bar	0 ÷ 1 bar	0 ÷ 2,5 bar	0 ÷ 1,5 bar	0 ÷ 5 bar	0 ÷ 2,0 bar
Ø 4 mm	0 ÷ 0,8 bar	0 ÷ 0,8 bar	0 ÷ 0,5 bar	0 ÷ 0,5 bar	0 ÷ 0,8 bar	0 ÷ 0,5 bar	0 ÷ 1,6 bar	0 ÷ 0,05 bar

Il passaggio da ø 0,8 mm e ø 4 mm non è disponibile per valvole Normalmente Aperte (NA)
ø 0,8 mm and ø 4 mm orifice are not available for Normally Open (NO) valves

MEMBRANE PILOTI DIRETTI / *DIAPHRAGMS DIRECT PILOT*


Ø 0,8 mm


Ø 1,6 mm


Ø 2 mm


Ø 4 mm

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	Corpo + Contalitri	Model	Valve body +Flow meter

CONNESSIONI ELETTRICHE		*ELECTRICAL CONNECTIONS*	
Connettore Hall	JST 3 poli (nero)	Hall connector	JST 3 pin (black)
Connettore Reed	JST 2 poli (bianco)	Reed connector	JST 2 pin (white)
Cavo Hall	1050; 2800 mm	Hall cable	1050; 2800 mm
	+ 3 poli connettore (rosso)		+ 3 pin connector (red)
Cavo Reed	1050; 2800 mm	Reed cable	1050; 2800 mm
	+ 2 poli connettore (bianco)		+ 2 pin connector (white)

MODELLO S	*MODEL S*
Range funzionamento: 0,5-3,6 L/min	Performance: 0,5-3,6 L/min
Impulsi / litro nominali: 2337 - 3162	Nominal pulse / liter: 2337 - 3162
Precisione: ± 5 %	Tolerance: ± 5 %
N° magneti: 2	Magnet No.: 2
Senza ByPass	NO ByPass

MODELLO M	*MODEL M*
Range funzionamento: 1-7 L/min	Performance: 1-7 L/min
Impulsi / litro nominali: 672 - 1008	Nominal pulse / liter: 672 - 1008
Precisione: ± 5 %	Accuracy: ± 5 %
N° magneti: 1	Magnet No.: 1
Senza ByPass	No ByPass

MODELLO L	*MODEL L*
Range funzionamento: 3-15 L/min	Performance: 3-15 L/min
Impulsi / litro nominali: 412 - 618	Nominal pulse / liter: 412 - 618
Precisione: ± 5 %	Tolerance: ± 5 %
N° magneti: 2	Magnet No.: 2
Con ByPass	With ByPass

MODELLO XL	*MODEL XL*
Range funzionamento: 5-30 L/min	Performance: 5-30 L/min
Impulsi / litro nominali: 248 - 372	Nominal pulse / liter: 248 - 372
Precisione: ± 5 %	Tolerance: ± 5 %
N° magneti: 2	Magnet No.: 2
Con ByPass	With ByPass

*I valori specificati devono essere considerati come valori approssimativi. Il numero di impulsi per litro può variare a seconda del mezzo e dell'installazione. Si consiglia di calibrare il numero di impulsi per litro in linea con l'installazione completa.
The values specified must be considered as approximate values. The number of pulses per litre may differ depending on medium and installation. We recommend to calibrate the number of pulses per litre in line with the complete installation.

**Valori rilevati secondo protocollo di prova RPE con Pressione di 5 bar, uscita parzializzata ad 1 l/min per il modello S, 2l/min per il modello M, 5 l/min per il modello L, 10 l/min per il modello XL.
Measured values according to RPE test protocol with 5 bar pressure, output at 1 l/min for the S model, 2l/min for the M model, 5 l/min for the L model, 10 l/min for the XL model.

Misure in millimetri - Dimensions in millimeters

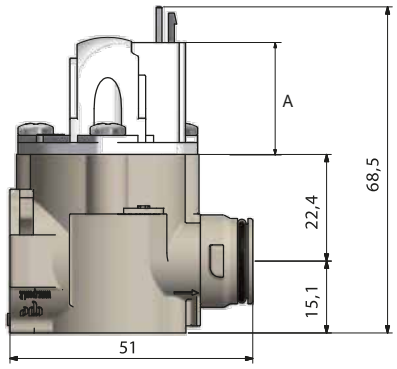
CORPO A + CONTALITRI / *BODY A + FLOW METER*

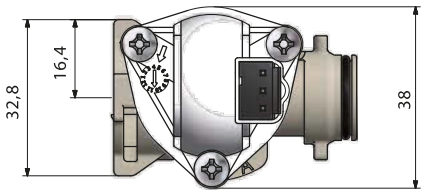
M.O.Q.:
40 pcs

IN:
Connessione Baionetta Femmina
Female Bayonet connection

OUT:
Connessione Baionetta
Maschio
Male Bayonet connection

A:
23,5





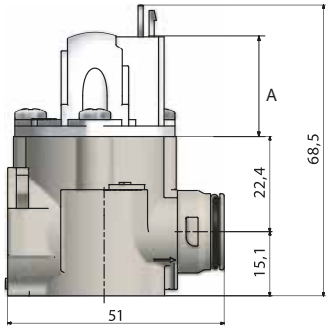
CORPO B + CONTALITRI / *BODY B + FLOW METER*

M.O.Q.:
40 pcs

IN:
Connessione Baionetta Femmina
Female Bayonet connection

OUT:
Connessione Baionetta
Maschio
Male Bayonet connection

A:
23,5



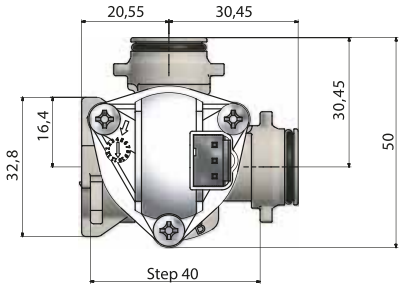
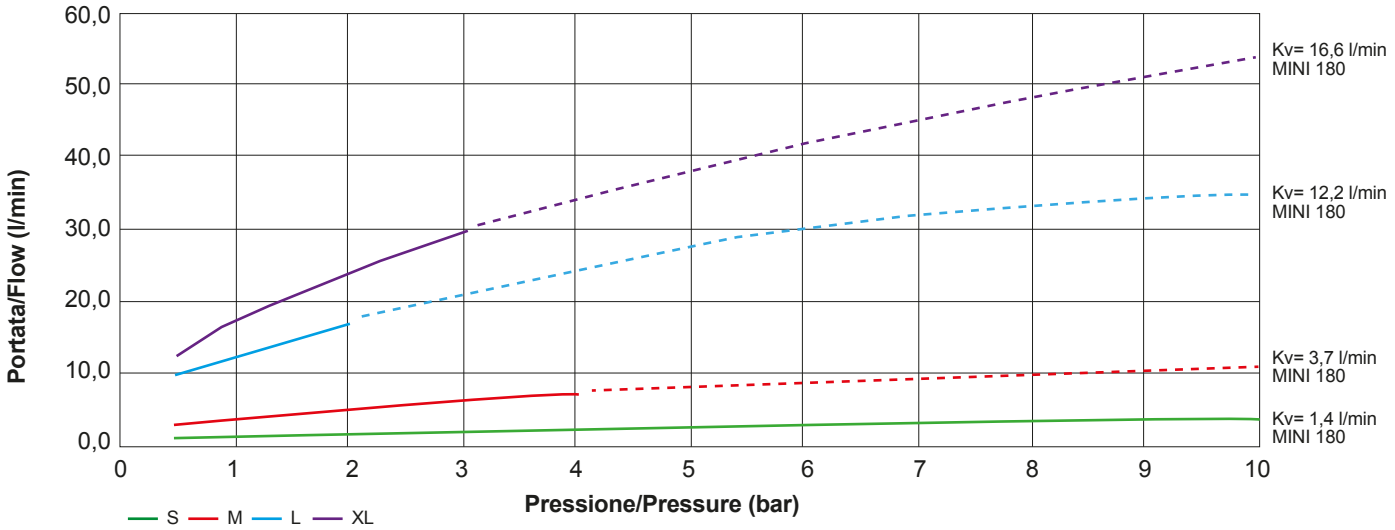
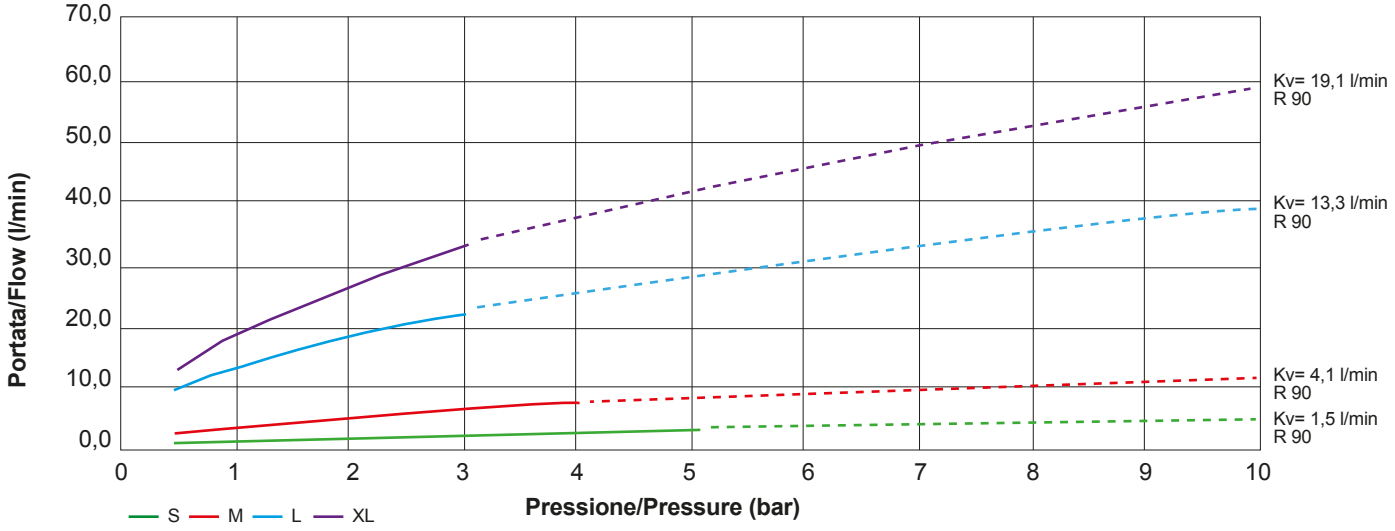


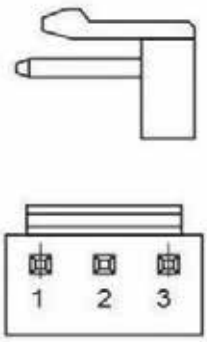
GRAFICO PORTATE / *FLOW RATES CHART*



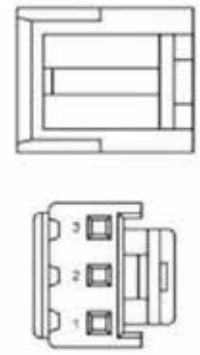


Misure in millimetri - Dimensions in millimeters

CONNESSIONI ELETTRICHE — *ELECTRICAL CONNECTIONS*

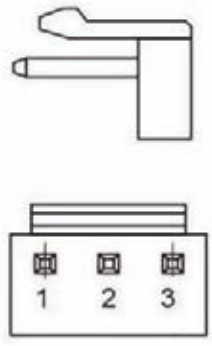


Sensore HALL		HALL sensor	
Tipo di uscita	Collettore aperto NPN	Output type	Open collector NPN
Tensione	5 - 28 Vcc	Voltage	5 - 28 Vdc
Corrente	Massima 10 mA	Current	Maximum 10 mA
Connessione	Connettore tripolare maschio (nero)	Connection	Tripolar male connector (black)
Tipo connettore	JST B3P-VH-BK (3 poli/p. 3,96)	Connector type	JST B3P-VH-BK (3 pin/p. 3,96)
	pin 1 = uscita		pin 1 = output
	pin 2 = negativo (-)		pin 2 = negative (-)
	pin 3 = positivo (+)		pin 3 = positive (+)

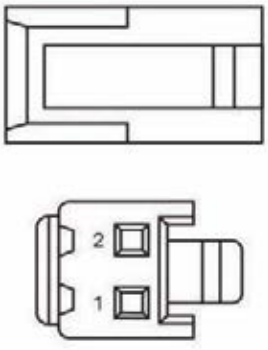


Sensore HALL		HALL sensor	
Connessione	Cavo con connettore tripolare femmina (rosso)	Connection	Cable with tripolar female connector (red)
Lunghezza cavo	0,31m / 1m / 2,8m	Cable length	0,31m / 1m / 2,8m
Tipo connettore	JST VHR-3N-R (3 poli/p. 3,96)	Connector type	JST VHR-3N-R (3 pin/p. 3,96)
	pin 1 = uscita (cavo bianco)		pin 1 = output (white wire)
	pin 2 = positivo (+) (cavo marrone)		pin 2 = positive (+) (brown wire)
	pin 3 = negativo (-) (cavo verde)		pin 3 = negative (-) (green wire)

CONNESSIONI ELETTRICHE — *ELECTRICAL CONNECTIONS*

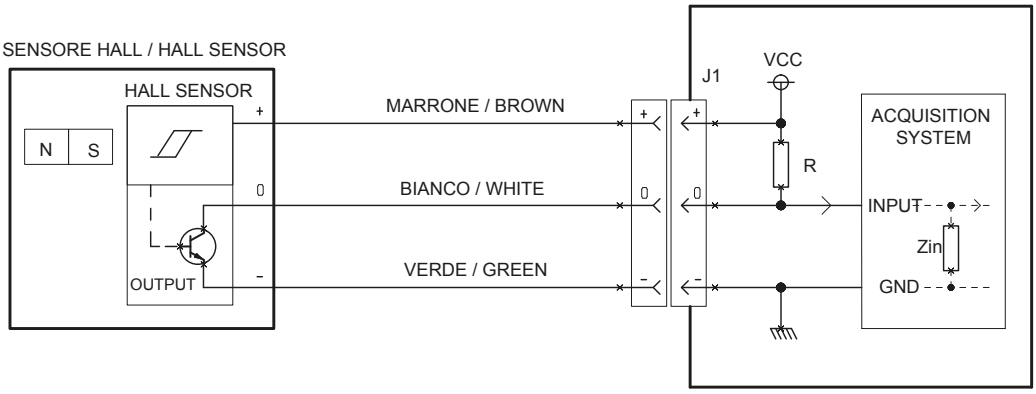


Sensore REED		REED sensor	
Tipo di uscita	Contatto NA	Output type	Contact NO
Tensione	5 - 28 Vcc	Voltage	5 - 28 Vdc
Corrente	Massima 500 mA	Current	Maximum 500 mA
Connessione	Connettore tripolare maschio (bianco)	Connection	Tripolar male connector (white)
Tipo connettore	JST B3P-VH (3poli/p.3,96)	Connector type	JST B3P-VH (3 pin/p. 3,96)
	pin 1 = contatto		pin 1 = contact
	pin 2 = libero (nc)		pin 2 = free (nc)
	pin 3 = contatto		pin 3 = contact



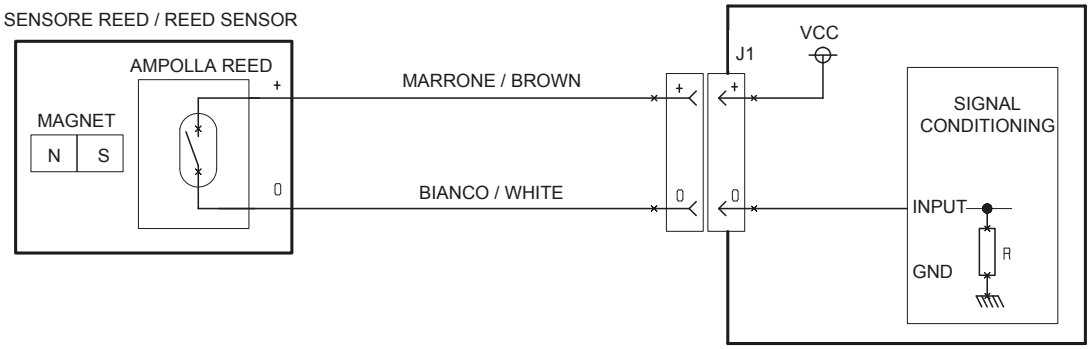
Sensore REED		REED sensor	
Connessione	Cavo con connettore bipolare femmina (bianco)	Connection	Cable with bipolar female connector (white)
Lunghezza cavo	0,195m / 1m / 2,8m	Cable length	0,195m / 1m / 2,8m
Tipo connettore	JST VHR-2N (2 poli/p. 3,96)	Connector type	JST VHR-2N (2 pin/p. 3,96)
	pin 1 = contatto (cavo marrone)		pin 1 = contact (brown wire)
	pin 2 = contatto (cavo bianco)		pin 2 = contact (white wire)

SENSORE HALL / *HALL SENSOR*

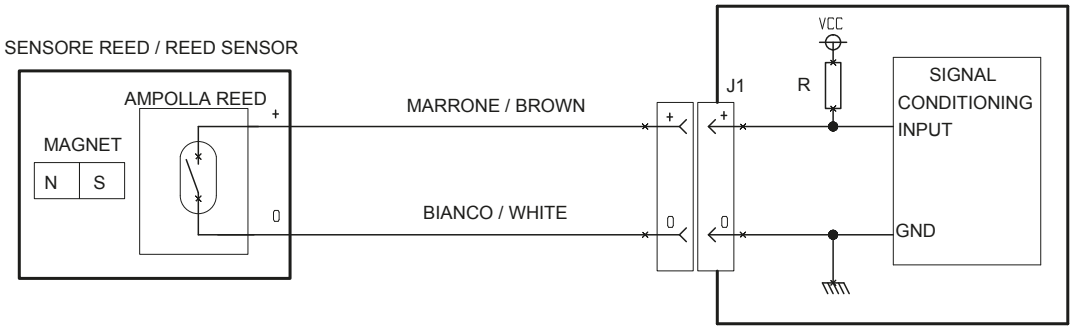


Tipo di uscita: Collettore aperto NPN	Alimentazione VCC 5 - 28 VCC
Output type NPN open collector	VDC power supply
Corrente di uscita: Max 10 mA	Corrente di carico 0,05 mA @ 3 mA (tipico)
Output current: Max 10 mA	Load Current 0.05mA @ 3mA (typical)
VCE di saturazione: 0,4 V	Resistenza di carico: R =
VCE saturation: 0.4V	Load Resistance: R = 4,7 Kohm / 0,25 W (tipico A 5 VCC)
Outlet type: Open collector NPN	Resistenza di carico: R = 4.7 Kohm / 0.25 W (typical At 5 VDC)
Outlet type: Open collector NPN	Load Resistance: R = 10 Kohm / 0,25 W (tipico A 28 VCC)
Outlet current: Max 10 mA	Resistenza di carico: R = 10 Kohm / 0.25 W (Typical At 28 VDC)
Outlet current: Max 10 mA	Load Resistance: R = 100 Kohm / 0,25 W (Max)

SENSORE REED / *REED SENSOR*



Tipo di uscita: Switch libero da tensione	Alimentazione VCC 5 - 28 VCC
Output type: Voltage free switch	VDC power supply
Corrente di uscita: Max 10 mA	Corrente di carico 0,05 mA @ 3 mA (tipico)
Output current: Max 10 mA	Load Current 0.05mA @ 3mA (typical)
Tipo di uscita: interruttore libero per tensione IN	Resistenza di carico: R =
Outlet type: Free switch by voltage	Load Resistance: R = 4,7 Kohm / 0,25 W (tipico A 5 VCC)
Outlet current: Max 10 mA	Resistenza di carico: R = 4.7 Kohm / 0.25 W (typical At 5 VDC)
Outlet current: Max 10 mA	Load Resistance: R = 10 Kohm / 0,25 W (tipico A 28 VCC)
	Resistenza di carico: R = 10 Kohm / 0.25 W (Typical At 28 VDC)
	Load Resistance: R = 100 Kohm / 0,25 W (Max)



CARATTERISTICHE — *SPECIFICATIONS*

Modello	Corpo + Rid. di pressione	Model	Valve body + Pressure restrictor
Riduzione in uscita (fissa)	0,4 bar	Outlet pressure restrictor (fixed)	0,4 bar
	0,5 bar		0,5 bar
	1,2 bar		1,2 bar
	1,5 bar		1,5 bar
	2 bar		2 bar
	3 bar		3 bar
	4 bar		4 bar

GRAFICO PRESSIONI DINAMICA / DYNAMIC *PRESSURE CHART (P IN / P OUT)*

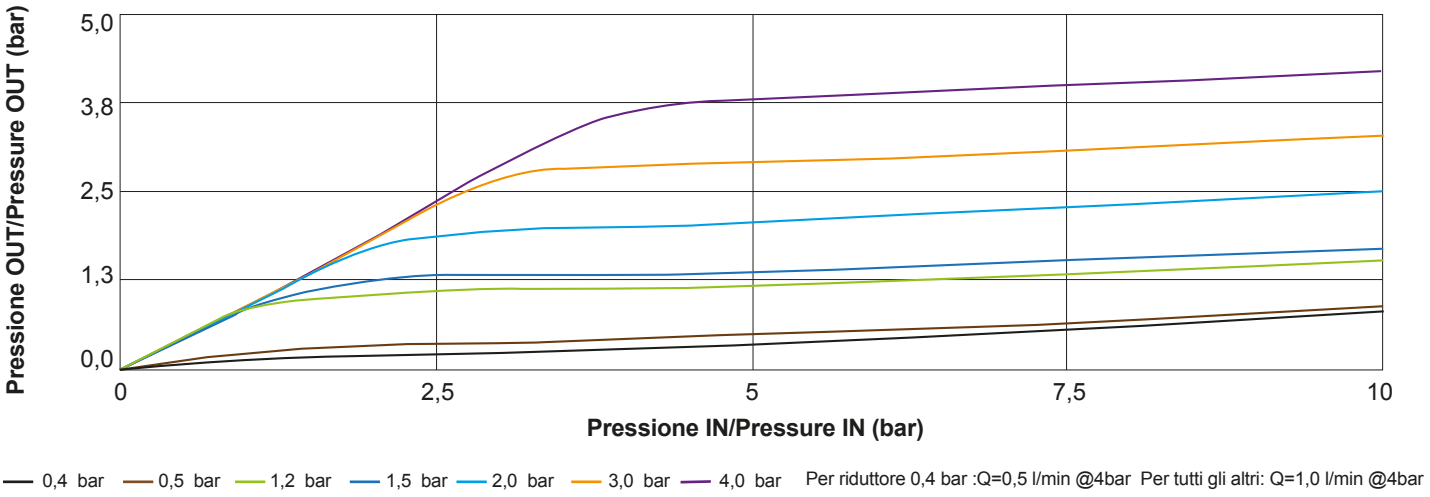
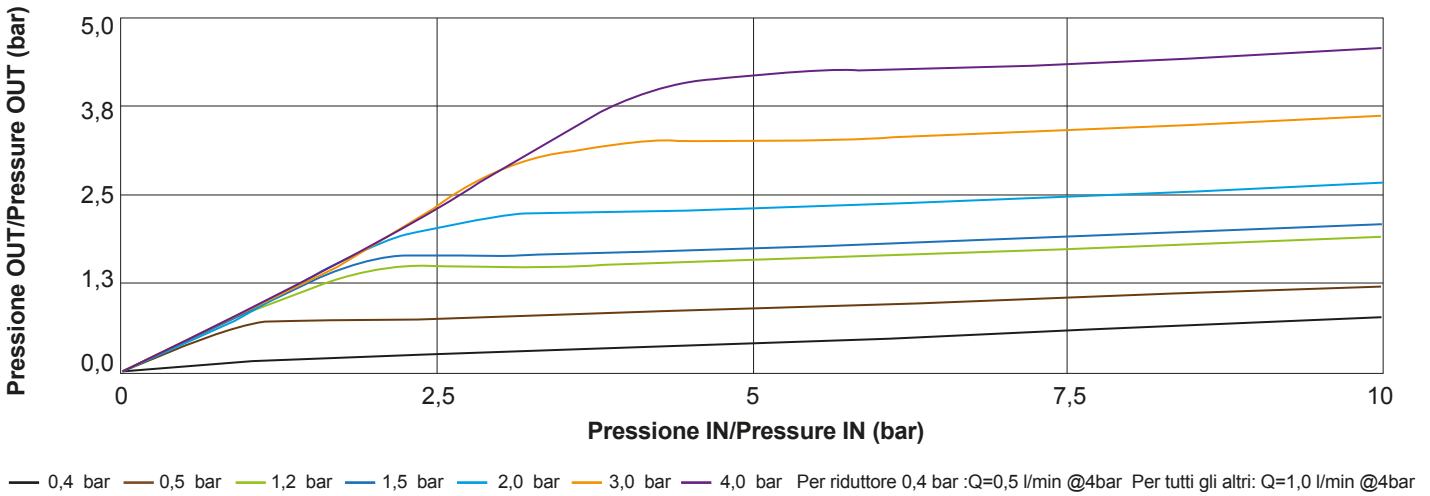


GRAFICO PRESSIONI STATICA / *STATIC PRESSURE CHART (P IN / P OUT)*



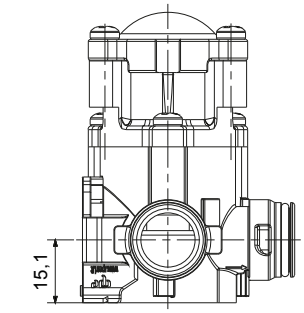
CORPO C + RID. DI PRESSIONE
BODY C + PRESSURE RESTRICTOR

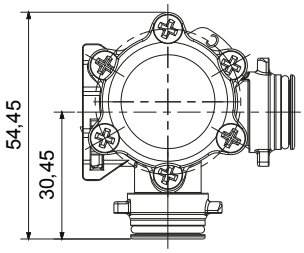
M.O.Q.:
40 pcs

IN
Connessione baionetta femmina
Female bayonet connection

OUT
Connessione baionetta maschio
Male bayonet connection

A: 32





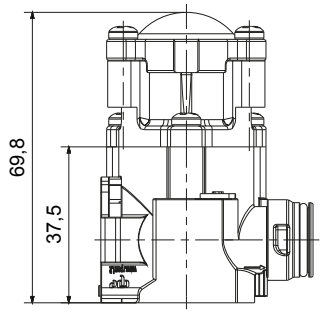
CORPO A + RID. DI PRESSIONE
BODY A + PRESSURE RESTRICTOR

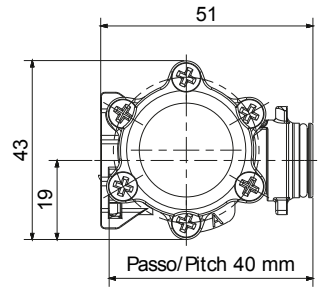
M.O.Q.:
40 pcs

IN
Connessione baionetta femmina
Female bayonet connection

OUT
Connessione baionetta maschio
Male bayonet connection

A: 32





Misure in millimetri - Dimensions in millimeters

CARATTERISTICHE / *SPECIFICATIONS*

Modello	Corpo + Filtro	Model	Valve body + Filter
Filtrazione	131 µ (114 mesh)	Filtration	131 µ (114 mesh)
	168 µ (86 mesh)		168 µ (86 mesh)
	237 µ (64 mesh)		237 µ (64 mesh)
	307 µ (49 mesh)		307 µ (49 mesh)

CARATTERISTICHE / *SPECIFICATIONS*

Colore / Color	Verde / Green
Filtrazione / Filtration	131 µ (114 mesh)
Approvazione alimentare / Food approval	Si / Yes

Colore / Color	Bianco / White
Filtrazione / Filtration	237 µ (64 mesh)
Approvazione alimentare / Food approval	Si / Yes

Colore / Color	Nero / Black
Filtrazione / Filtration	168 µ (86 mesh)
Approvazione alimentare / Food approval	Si / Yes

Colore / Color	Blu / Blue
Filtrazione / Filtration	307 µ (49 mesh)
Approvazione alimentare / Food approval	Si / Yes

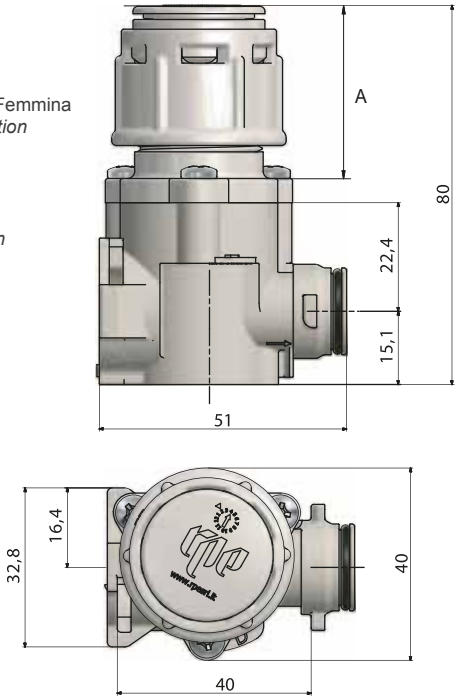
CORPO A + FILTRO / *BODY A + FILTER*

M.O.Q.:
40 pcs

IN:
Connessione Baionetta Femmina
Female Bayonet connection

OUT:
Connessione Baionetta
Maschio
Male Bayonet connection

A:
40



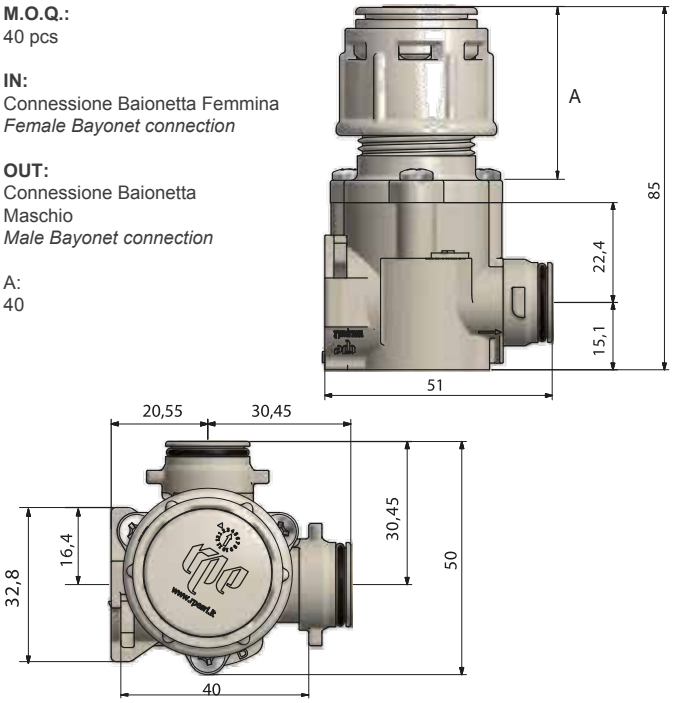
CORPO B + FILTRO / *BODY B + FILTER*

M.O.Q.:
40 pcs

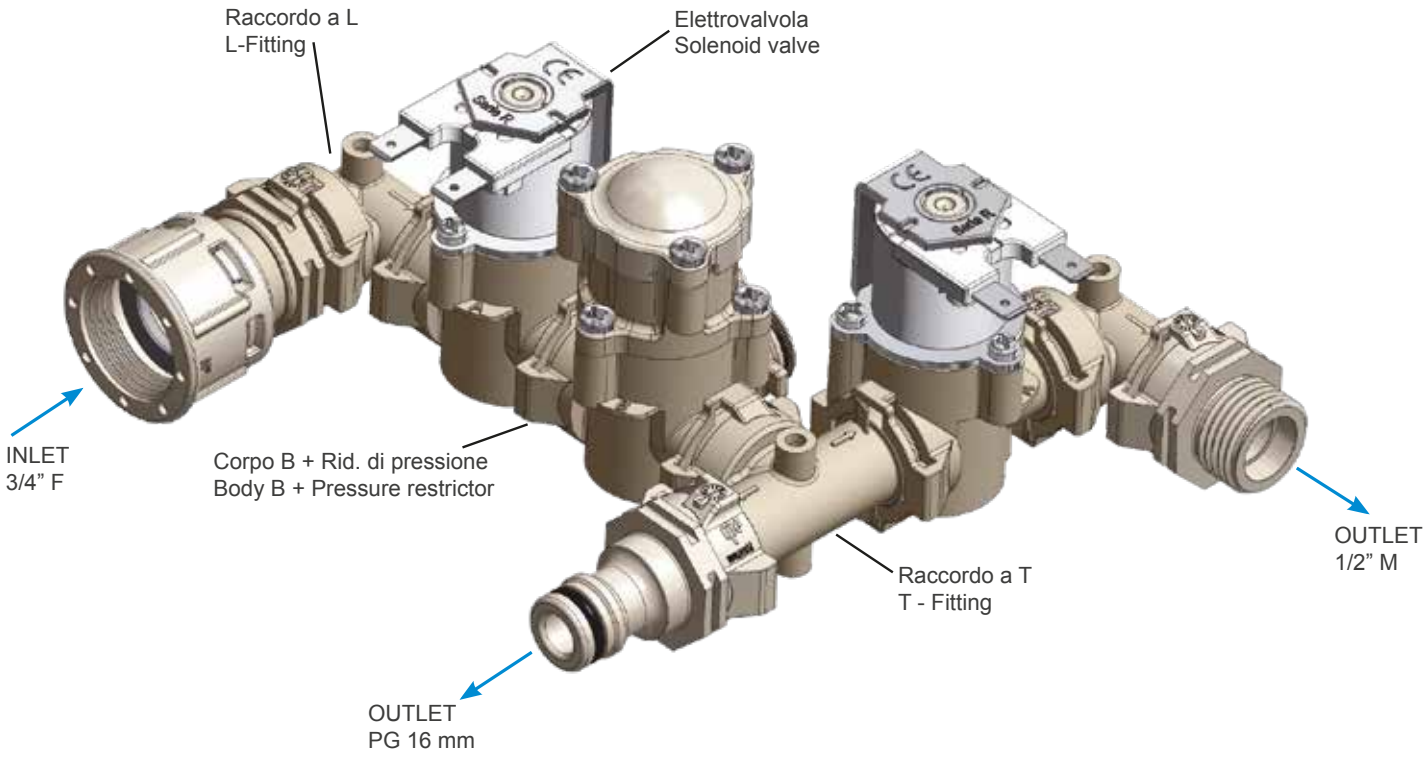
IN:
Connessione Baionetta Femmina
Female Bayonet connection

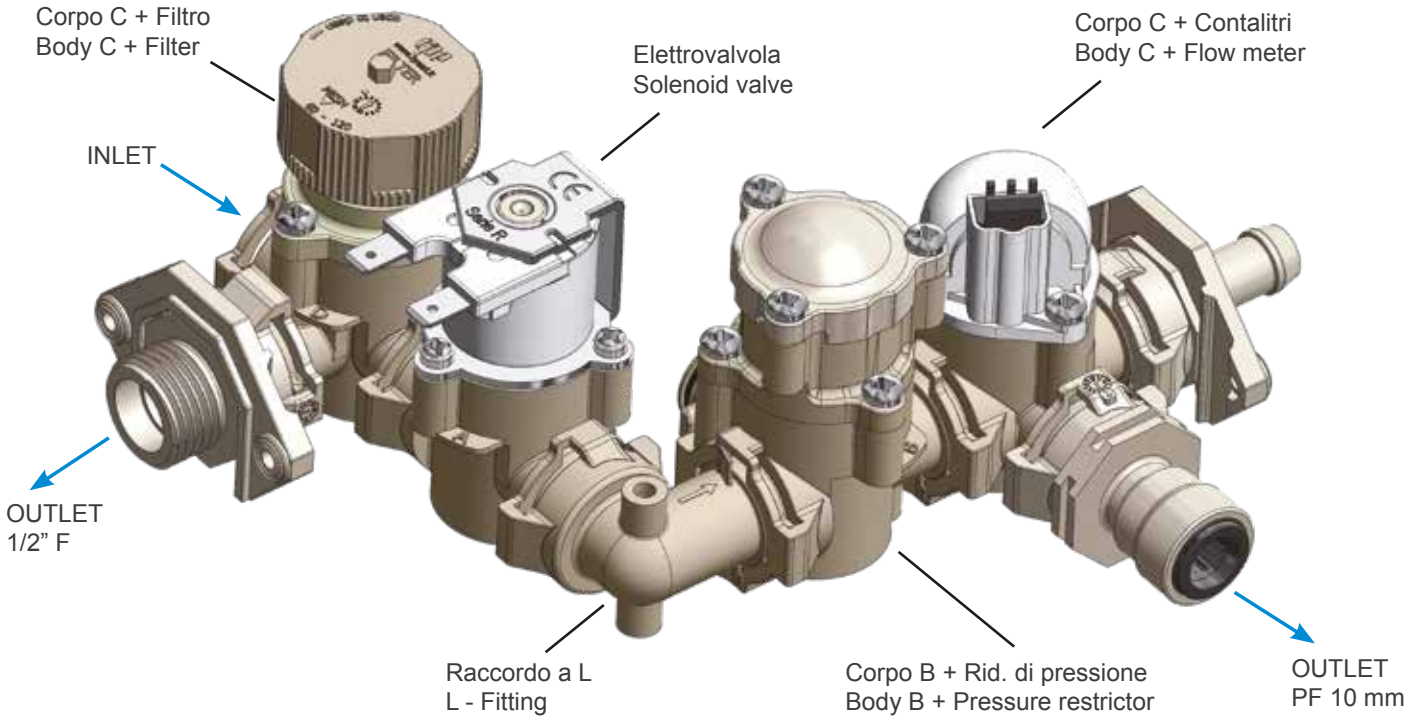
OUT:
Connessione Baionetta
Maschio
Male Bayonet connection

A:
40

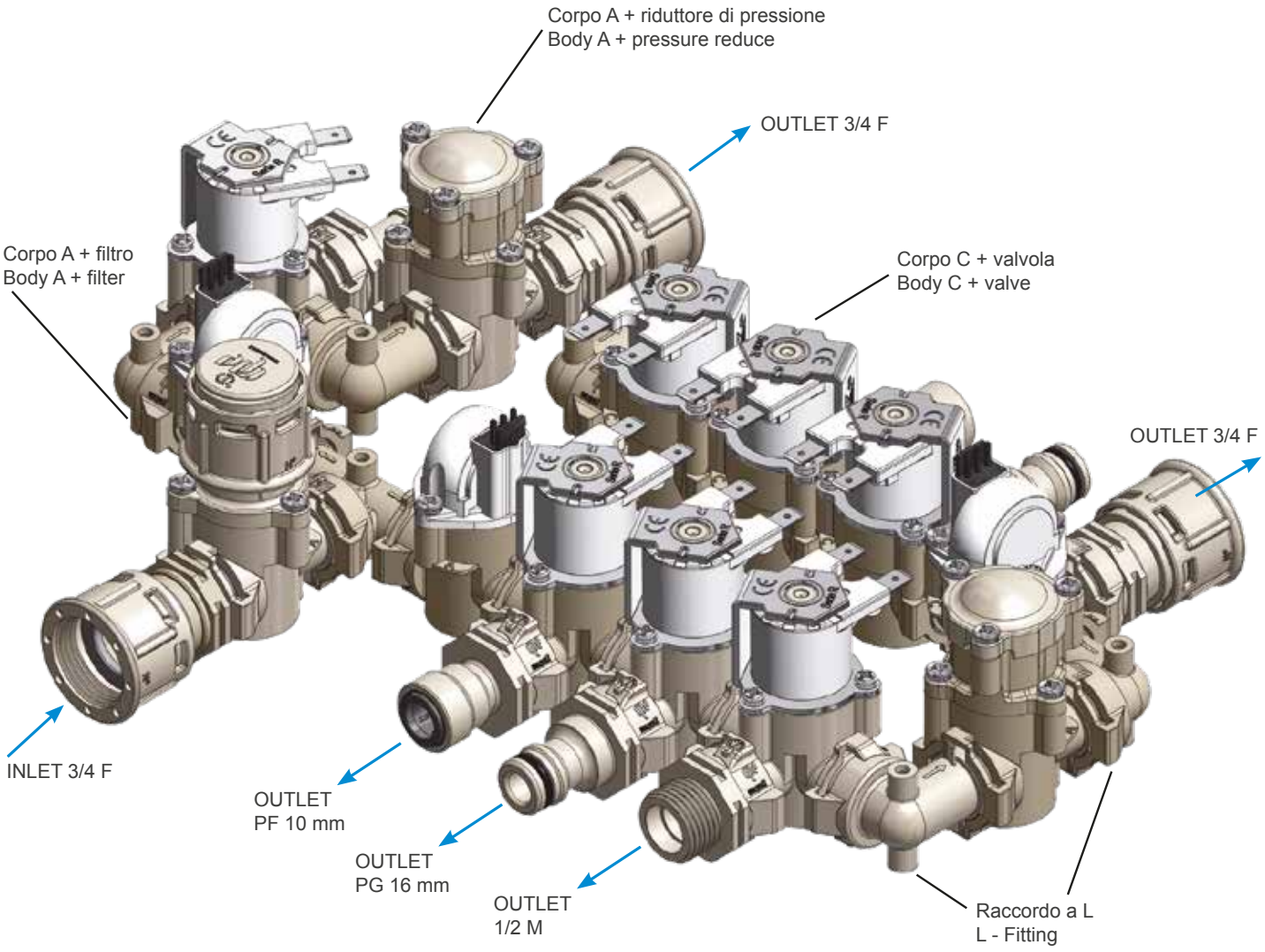


SERIE R UNIVERSALE ASSEMBLATA / *R SERIES UNIVERSAL ASSEMBLED*





SERIE R UNIVERSALE ASSEMBLATA / *R SERIES UNIVERSAL ASSEMBLED*



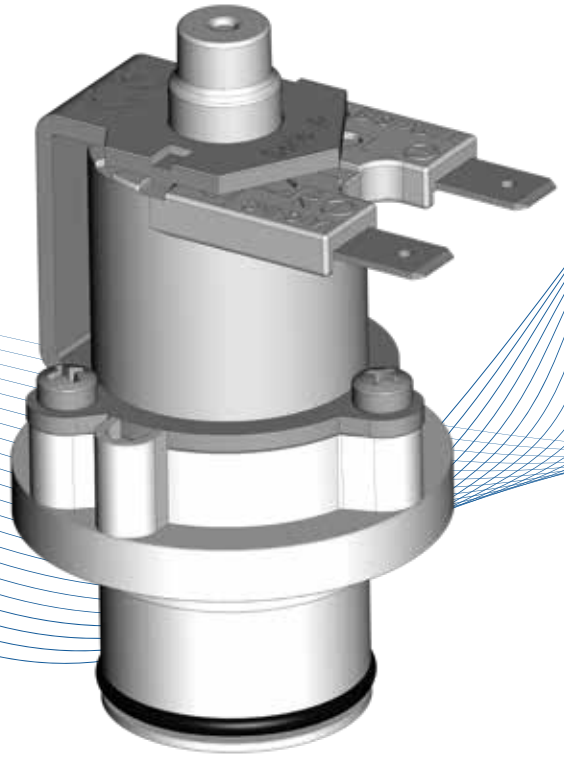
Serie R - Valvola Cartuccia

R Series - Cartridge Valve

Applicazioni / *Applications*

Elettrodomestici
Household appliances

Sanitari
Sanitary



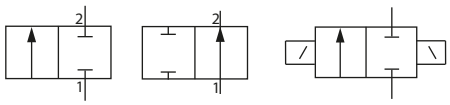
SPECIFICHE TECNICHE

- Corpo valvola: POM
- Membrana: NBR / EPDM / LSR
- Nucleo: Acciaio Inox
- Molla: Acciaio Inox
- O-ring: NBR
- Pressione di esercizio: 0,2 – 10 bar
- Temperatura ambiente: Tu 60°C
- Temperatura fluido: Tm 25°C - Tm 60°C - ED 100%
  Tm 90°C (3 min ON - 5 min OFF)
- Diametro nominale: DN 11mm

TECHNICAL SPECIFICATIONS

- *Body: POM*
- *Diaphragm: NBR / EPDM / LSR*
- *Core: Stainless Steel*
- *Spring: Stainless Steel*
- *O-ring: NBR*
- *Working pressure: 0,2 – 10 bar*
- *Room temperature: Tu 60°C*
- *Fluid temperature: Tm 25°C - Tm 60°C - ED 100%*
  Tm 90°C (3 min ON - 5 min OFF)
- *Orifice: DN 11mm*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

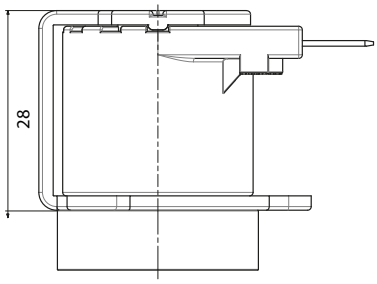
- Soluzione estremamente compatta e flessibile/ *Highly compact and flexible solution*
- Disponibile nelle versioni certificate UL per mercato Nord Americano / *UL certified versions for the North america market available*
- Valvole certificate per il contatto con alimenti / *Certified valves for food contact*
- Ampia gamma di personalizzazioni (voltaggi, faston/cavi, membrana…)
  Wide range of customisations (voltages, fastons/wires, membrane...)
- Ideale per customizzazioni della sede della valvola/ *Ideal for valve seat customisation*

CERTIFICAZIONI / *CERTIFICATION*

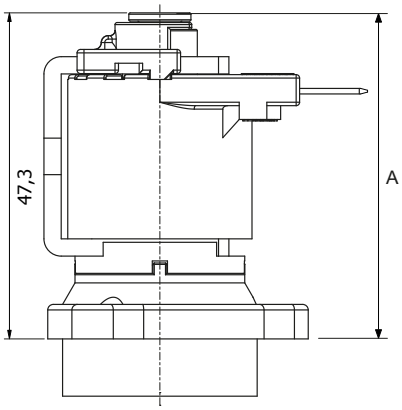
CE UK CA

Serie R - Valvola Cartuccia
R Series - Cartridge Valve

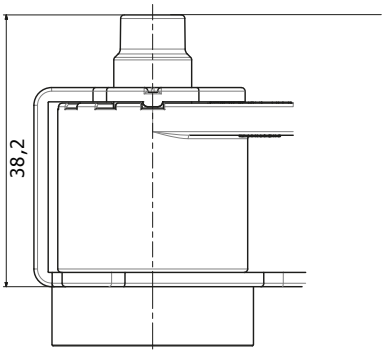
QUOTA A / *A DIMENSION*



NORMALMENTE CHIUSA / *NORMALLY CLOSED*



NORMALMENTE APERTA / *NORMALLY OPEN*



BISTABILE / *LATCHING*

CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	POM	Valve body	POM
Membrana	NBR; LSR; EPDM	Diaphragm	NBR; LSR; EPDM
Nucleo	Acciaio Inox	Core	Stainless steel
Molla	Acciaio Inox	Spring	Stainless steel
O-Ring	NBR	O-Ring	NBR
Bobine	Classe F (155˚)	Coils	F class (155˚)

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,2 - 10 bar	Working pressure	0,2 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25 °C - Tm 60 °C - ED 100%	Fluid temperature	Tm 25 °C - Tm 60 °C - ED 100%
	Tm 90 °C (3 min ON - 5 min OFF)		Tm 90 °C (3 min ON - 5 min OFF)
Diametro nominale	DN 11 mm	Orifice	ND 11 mm
Comando	Bistabile; NC	Control	Latching; NC
Direzione del fluido	Classe F (155˚)	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm	Unipolar wires 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires 5000 mm

CARTUCCIA / CARTRIDGE

M.O.Q.:
160 pcs

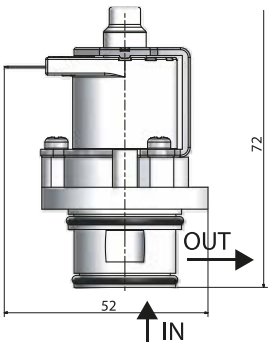
IN:
Assiale/*Axial*

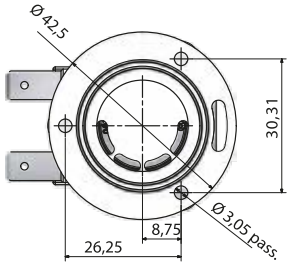
OUT:
Radiale/*Radial*

A:
29,2 NC+Cavi/*Cable*

47,2 NA/NO

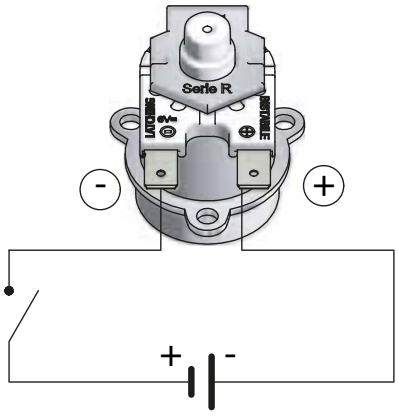
38,3 Bistabile/*Latching*





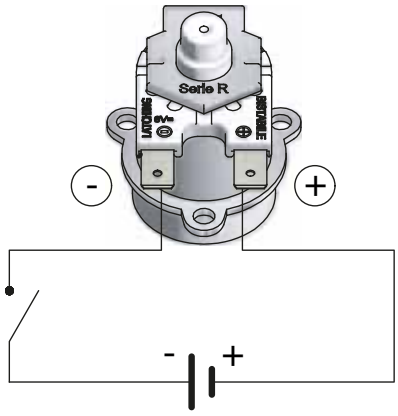
COMANDO DI APERTURA / *OPENING CONTROL* | **COMANDO DI CHIUSURA / *CLOSING CONTROL***

ON

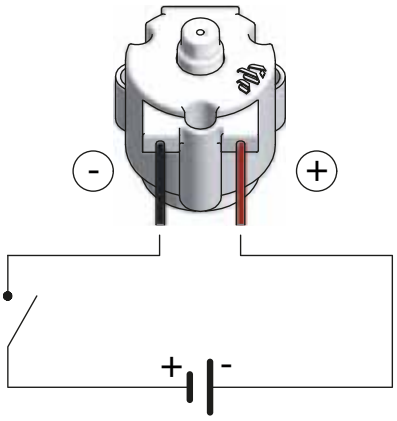


FASTON

OFF

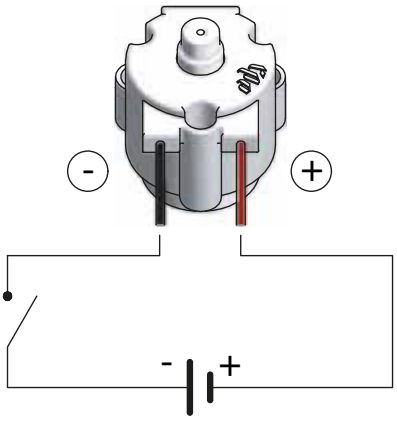


ON

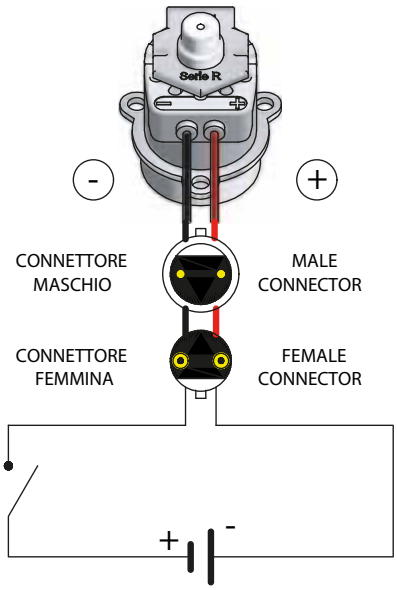


CAVI
Wires

OFF

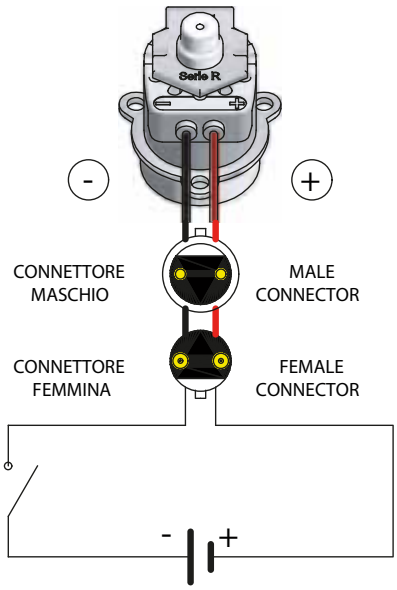


ON

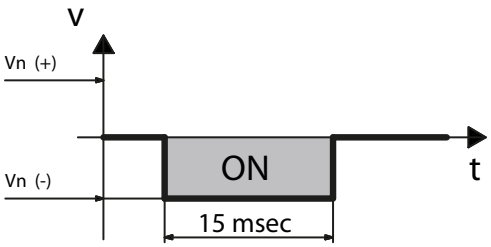


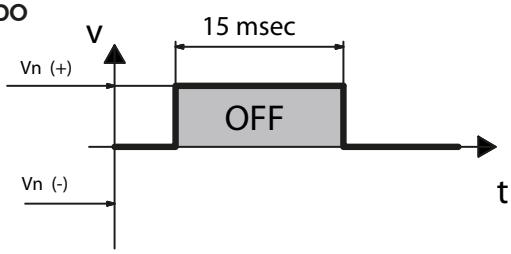
CONNETTORI IP 65
IP 65 connectors

OFF



IMPULSI DI COMANDO
Control impulse

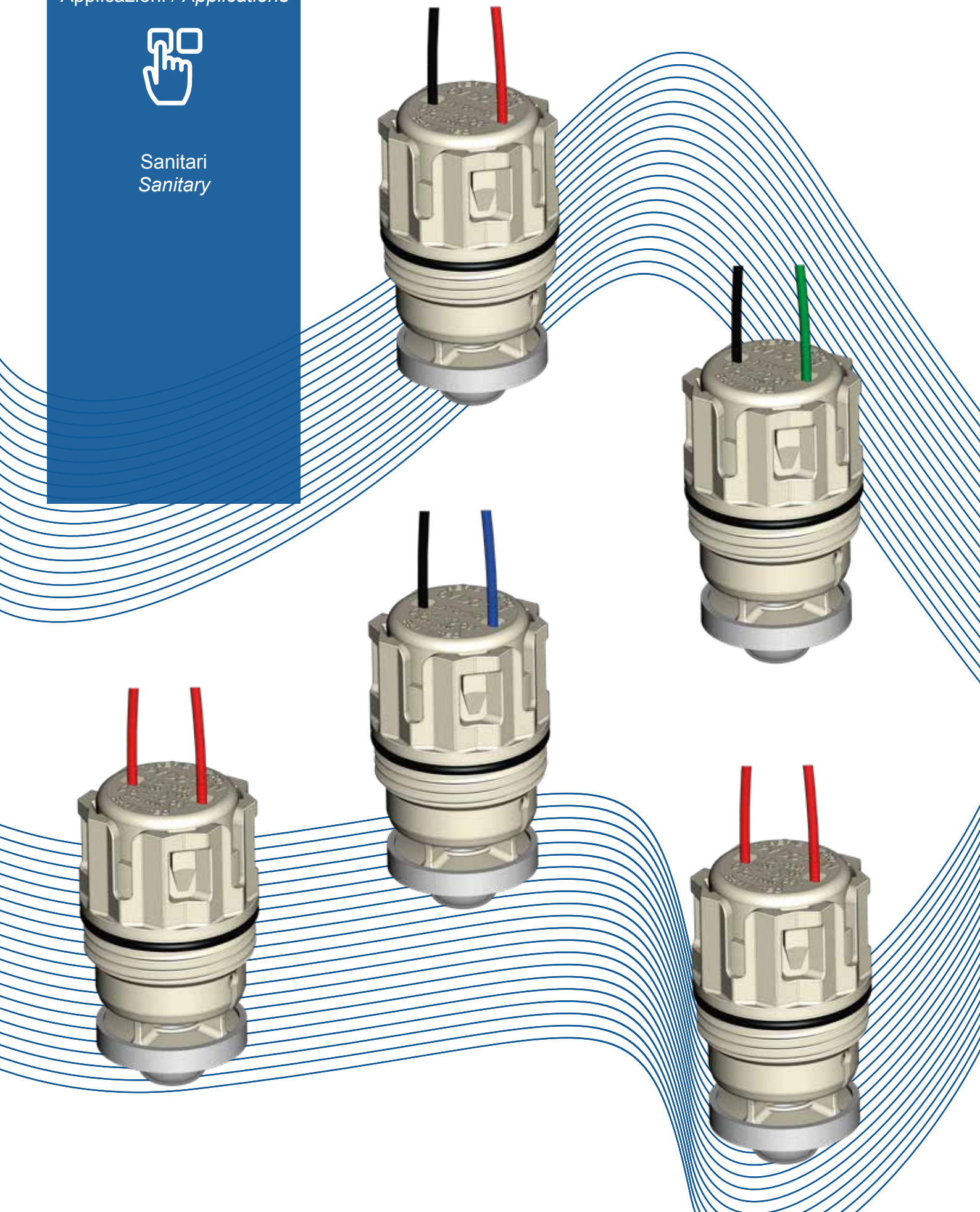




Serie Micro
Micro Series

Applicazioni / *Applications*

Sanitari
Sanitary



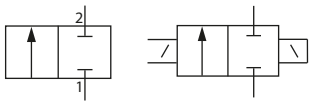
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Mebrana: NBR / LSR
- Nucleo: Acciaio Inox
- Molla: Acciaio Inox
- Bobine: Classe F (155°)
- Pressione di esercizio: 0,5-10 bar
- Temp. ambiente: Fino a 60°C
- Temp. fluido: Tm 90°C - ED 100%

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR / LSR*
- *Core: Stainless Steel*
- *Spring: Stainless Steel*
- *Coils: F Class (155°)*
- *Working pressure: 0,5-10 bar*
- *Room temperature: Up to 60°C*
- *Fluid temperature: Tm 90°C - ED 100%*

ICONE / *ICONS*



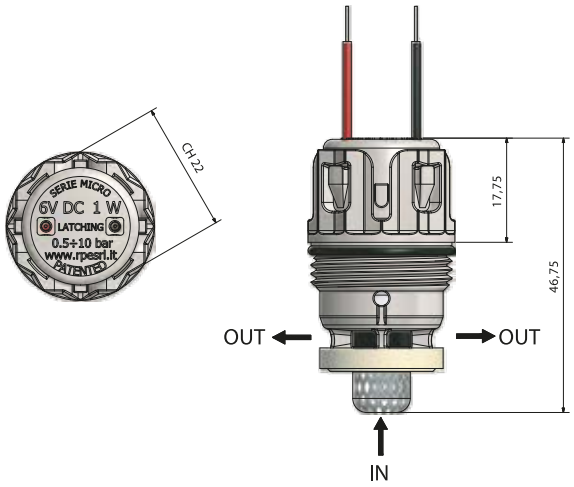
PUNTI DI FORZA / *HIGHLIGHTS*

- Soluzione estremamente compatta e flessibile / *Highly compact and flexible solution*
- Certificata per il contatto con acqua potabile / *Certfied for contact with drinking water*
- Consumi contenuti / *Low consumption*
- Ampia gamma di voltaggi / *Wide range of voltages*
- Facilità di installazione / *Easy installation*

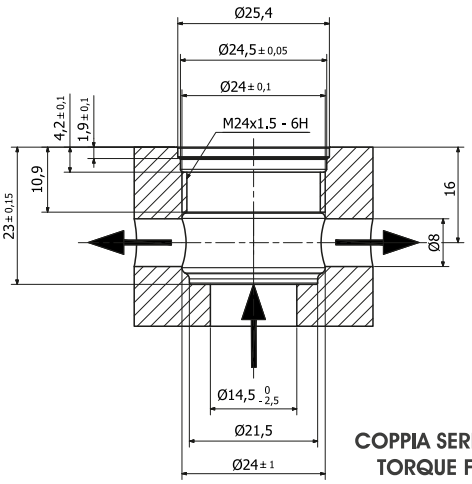
CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

SERIE MICRO / *MICRO SERIES*



DETTAGLIO SEDE / *SEAT DETAIL*



COPPIA SERRAGGIO 2,5 Nm
TORQUE FORCE 2,5 Nm

CARATTERISTICHE DI LAVORO / *WORKING SPECIFICATIONS*

Pressione di esercizio	0,5 - 10 bar	Working pressure	0,5 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 90° C - ED 100%	Fluid temperature	Tm 90° C - ED 100%
Diametro nominale	DN 8 mm	Orifice	DN 8 mm
Comando	NC; Bistabile	Control	NC; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectionalle

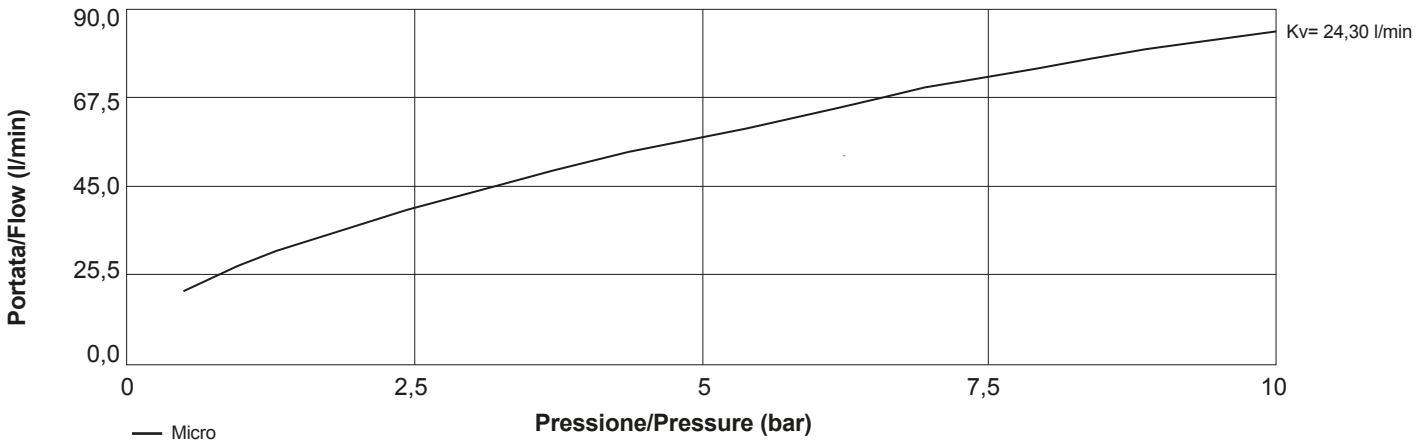
CONNESSIONI IDRAULICHE / *HYDRAULIC CONNECTIONS*

Ingresso	M24 x 1,5 mm	Inlet	M24 x 1,5 mm
Uscita	Sede OR	Outlet	OR seat

CONNESSIONI ELETTRICHE / *ELECTRICAL CONNECTIONS*

Cavi unipolari 200 mm	Unipolar wires 200 mm
Cavi con connettori IP 65 (100 mm)	Wires with IP 65 connectors (100 mm)

GRAFICO PORTATA SERIE MICRO / *FLOW RATE CHART MICRO SERIES*



CARATTERISTICHE		*SPECIFICATIONS*	
Modello	3 V Bistabile	Model	3 V Latching
Durata impulso	15 ms	Timing pulse	15 ms
Protezione	IP 55	Protection	IP 55
Forma impulso	Onda rettangolare	Pulse shape	Rectangular pulse
Potenza (20° C)	1 W	Power (20° C)	1 W
Assorbim. (20° C)	330 mA	Consuption (20° C)	330 mA

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	4,5 V Bistabile	Model	4,5 V Latching
Durata impulso	15 ms	Timing pulse	15 ms
Protezione	IP 55	Protection	IP 55
Forma impulso	Onda rettangolare	Pulse shape	Rectangular pulse
Potenza (20° C)	1 W	Power (20° C)	1 W
Assorbim. (20° C)	225 mA	Consuption (20° C)	225 mA

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	6 V Bistabile	Model	6 V Latching
Durata impulso	15 ms	Timing pulse	15 ms
Protezione	IP 55	Protection	IP 55
Forma impulso	Onda rettangolare	Pulse shape	Rectangular pulse
Potenza (20° C)	1 W	Power (20° C)	1 W
Assorbim. (20° C)	165 mA	Consuption (20° C)	165 mA

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	12 V Bistabile	Model	12 V Latching
Durata impulso	-	Timing pulse	-
Protezione	IP 55	Protection	IP 55
Forma impulso	-	Pulse shape	-
Potenza (20° C)	1,6 W	Power (20° C)	1,6 W
Assorbim. (20° C)	130 mA	Consuption (20° C)	130 mA

CARATTERISTICHE		*SPECIFICATIONS*	
Modello	24 V Bistabile	Model	24 V Latching
Durata impulso	-	Timing pulse	-
Protezione	IP 55	Protection	IP 55
Forma impulso	-	Pulse shape	-
Potenza (20° C)	1,6 W	Power (20° C)	1,6 W
Assorbim. (20° C)	65 mA	Consuption (20° C)	65 mA

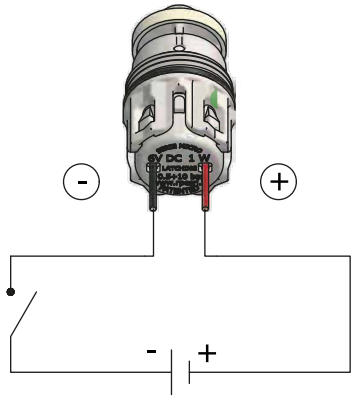
Codice progress./ Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim./ Holding Power	Assorbim. (mA) in mantenimento / Holding Current	ED (funzionamento) (duty cycle)	Connessioni Connections: Cavi Unip. Unip. wires (mm)	Connessioni Connections: Conn. IP 68 M-F IP 68 conn. M-F (mm)	Controllo Control: NC	Controllo Control: Bistabile Latching
1	3V DC	=	1 W (20°C)	330 mA (20°C)	/	200	150		✓
2	4,5V DC	=	1 W (20°C)	225 mA (20°C)	/	200	150		✓
3	6V DC	=	1 W (20°C)	165 mA (20°C)	/	200	150		✓
4	12 V DC	=	1,6 W (20°C)	130 mA (20°C)	100%	200	150	✓	
5	24 V DC	=	1,6 W (20°C)	65 mA (20°C)	100%	200	150	✓	

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F

COMANDO DI APERTURA / *OPENING CONTROL*

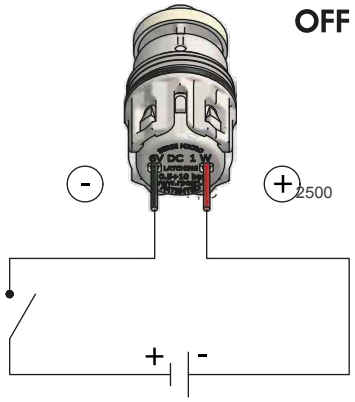
COMANDO DI CHIUSURA / *CLOSING CONTROL*

ON

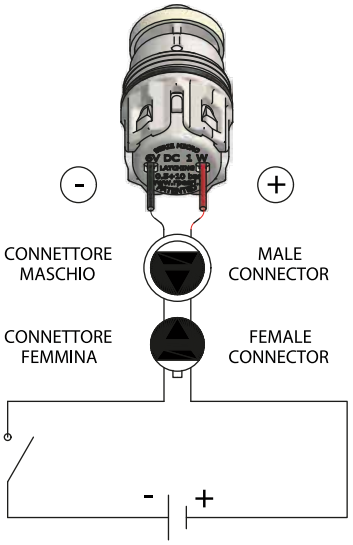


CAVI
Wires

OFF

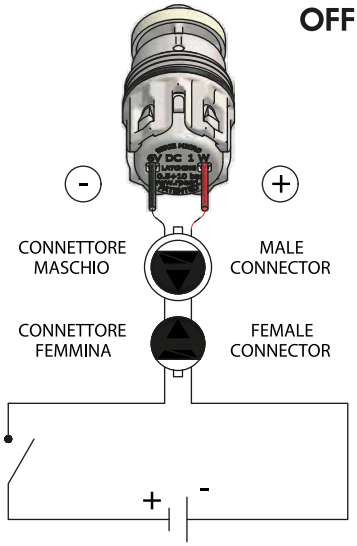


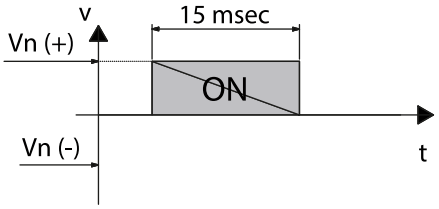
ON



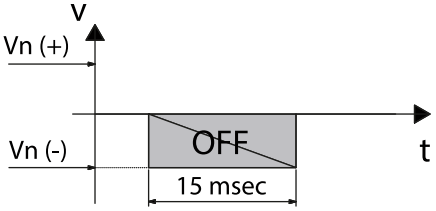
CONNETTORI IP 65
IP 65 connectors

OFF





IMPULSI DI COMANDO
Control impulse



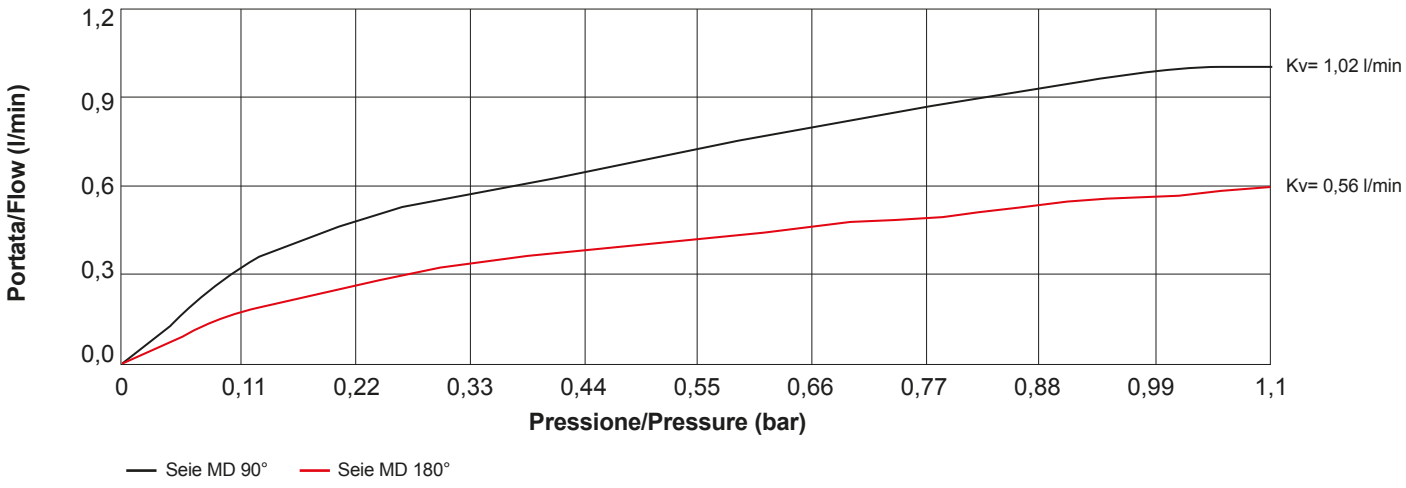
CARATTERISTICHE

Modello	12 V NC
Durata impulso	-
Protezione	IP 55
Forma impulso	-
Potenza (20° C)	1,6 W
Assorbim. (20° C)	130 mA
Comando	Apertura diretta
Press. di esercizio	0 - 1 bar
Diam. nominale	DN 1,5 mm

SPECIFICATIONS

Model	12 V NC
Filtration	-
Protection	IP 55
Pulse shape	-
Power (20° C)	1,6 W
Consuption (20° C)	130 mA
Control	Direct opening
Working pressure	0 - 1 bar
Orifice	DN 1,5 mm

GRAFICO PORTATA SERIE MICRO DIRETTA / *FLOW RATE CHART DIRECT MICRO SERIES*

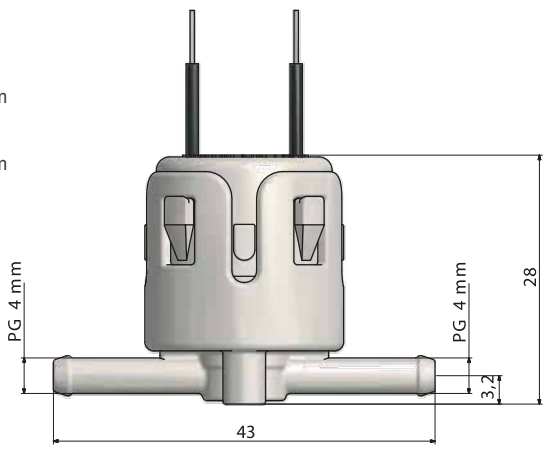


SERIE MICRO 180° / *MICRO SERIES 180°*

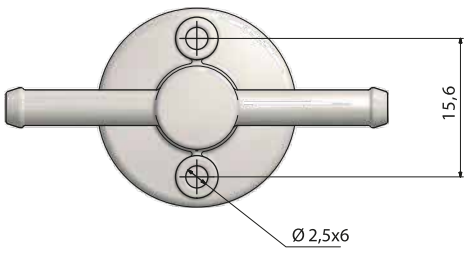
M.O.Q.:
216 pcs

IN:
PG 4 mm

OUT:
PG 4 mm



DETTAGLIO FISSAGGIO / *FIXING DETAIL*



Misure in millimetri - Dimensions in millimeters

Serie Axial
Axial Series

Applicazioni / *Applications*

Sanitari
Sanitary

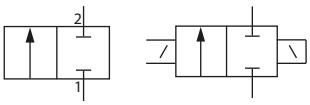
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Mebrana: NBR - LSR
- Nucleo: Acciaio Inossidabile
- Molla: Acciaio Inossidabile
- Assemblaggio: Viti
- Pressione di esercizio: 0,5-10 bar
- Temp. ambiente: Fino a 90°C
- Temp. fluido: Fino a 60°C

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30% GF*
- *Diaphragm: NBR - LSR*
- *Core: Stainless Steel*
- *Spring: Stainless Steel*
- *Assembly: Screw*
- *Working pressure: 0,5-10 bar*
- *Room temperature: Up to a 90°C*
- *Fluid temperature: Up to 60°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Soluzione compatta e flessibile / *Compact and flexible solution*
- Consumi contenuti / *Low consumption*
- Ampia gamma di voltaggi / *Wide range of voltages*
- Possibilità di fissaggio con viti / *Possibility of fixing with screws*
- Facilità di connessione / *Easy connection*

CERTIFICAZIONI / *CERTIFICATION*

CE UK CA

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,5 - 10 bar	Working pressure	0,5 - 10 bar
Temp. ambiente	Fino a 90°c	Room temperature	Up to 90°c
Temperatura fluido	Fino a 60°c	Fluid temperature	Up to 60°c
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Diametro di passaggio	ø8mm	Nominal diameter	ø8mm
Comando	Bistabile,NC	Pilot control	Latching,NC

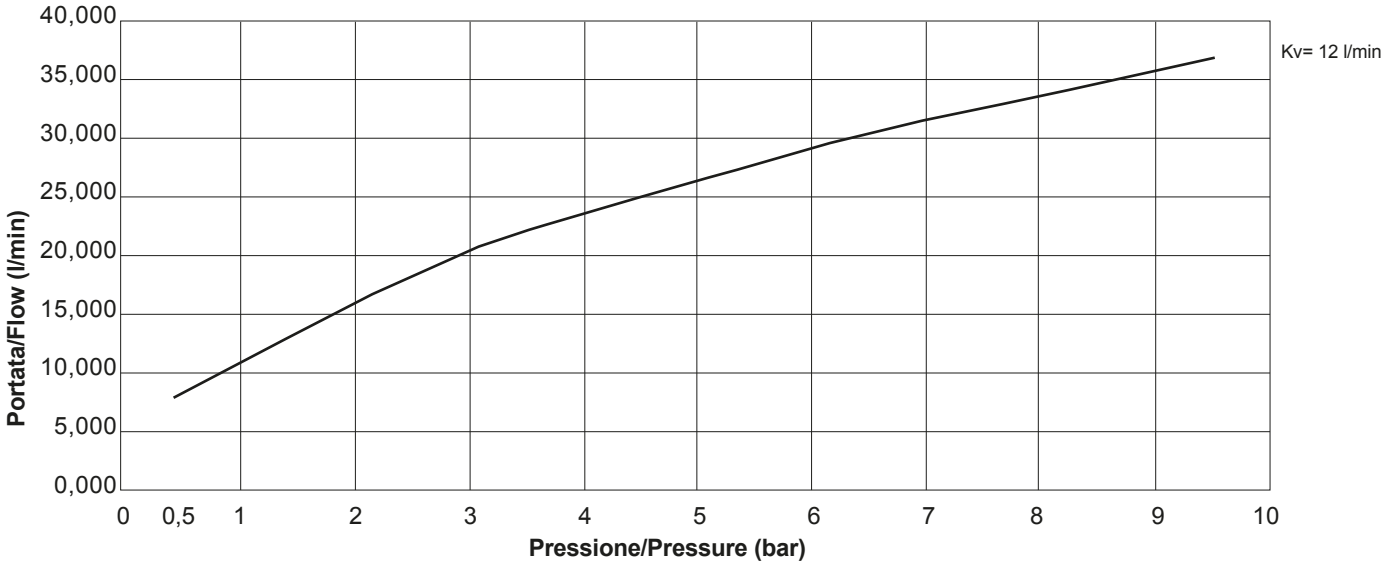
CONNESSIONI IDRAULICHE		*HYDRAULIC CONNECTIONS*	
Ingresso	Flangia	Inlet	Flange
Uscita	Connessione rapida pf 8	Outlet	Rapid connection pf 8

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Cavi ip 55	Wires ip 55
Connettore ip68 m/f a 2 pin	2 pins ip 68 m/f connector

						Connessioni Connections		Controllo Control	
Codice progress./ Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim./ Holding Power	Assorbim. (mA) in mantenimento / Holding Current	ED (funzionamento) (duty cycle)	Cavi Unip. Unip. wires (mm)	Conn. IP 68 M-F IP 68 conn. M-F (mm)	NC	Bistabile Latching
1	3V DC	=	1 W (20°C)	330 mA (20°C)	/	200	150		✓
2	4,5V DC	=	1 W (20°C)	225 mA (20°C)	/	200	150		✓
3	6V DC	=	1 W (20°C)	165 mA (20°C)	/	200	150		✓
4	12 V DC	=	1,6 W (20°C)	130 mA (20°C)	100%	200	150	✓	
5	24 V DC	=	1,6 W (20°C)	65 mA (20°C)	100%	200	150	✓	

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F

GRAFICO PORTATE / *FLOW RATES CHART*

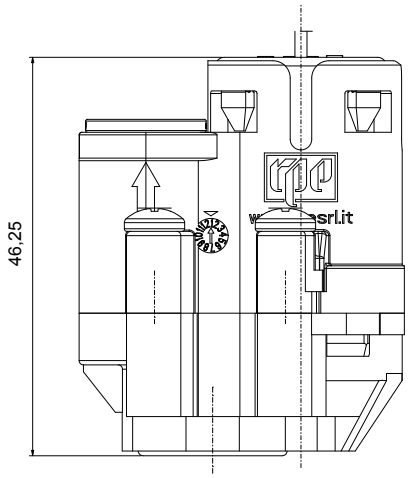


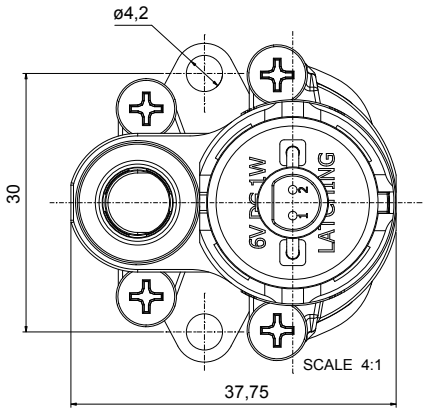
SERIE AXIAL / *AXIAL SERIE*

M.O.Q.:
144 pcs

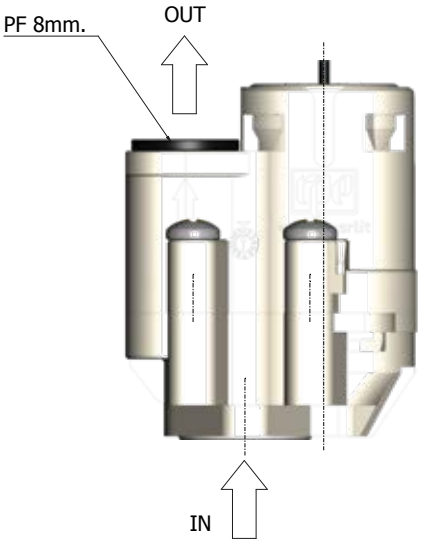
IN:
Flangia/Flange

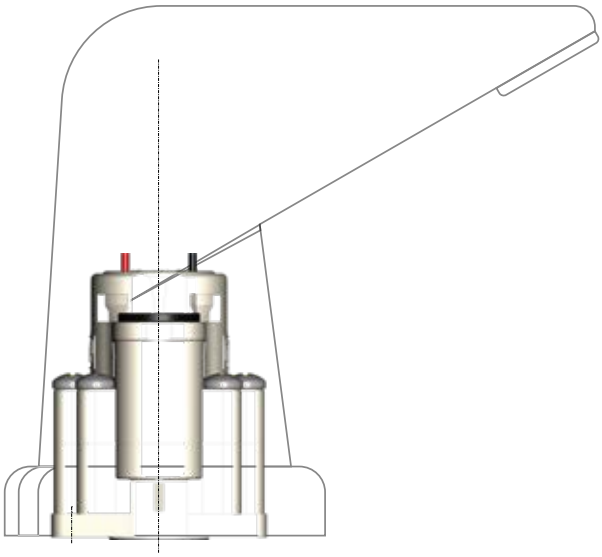
OUT:
PF 8mm





SCHEMA DI FUNZIONAMENTO / *WORKING SCHEME*





Serie 700
700 Series

Applicazioni / *Applications*

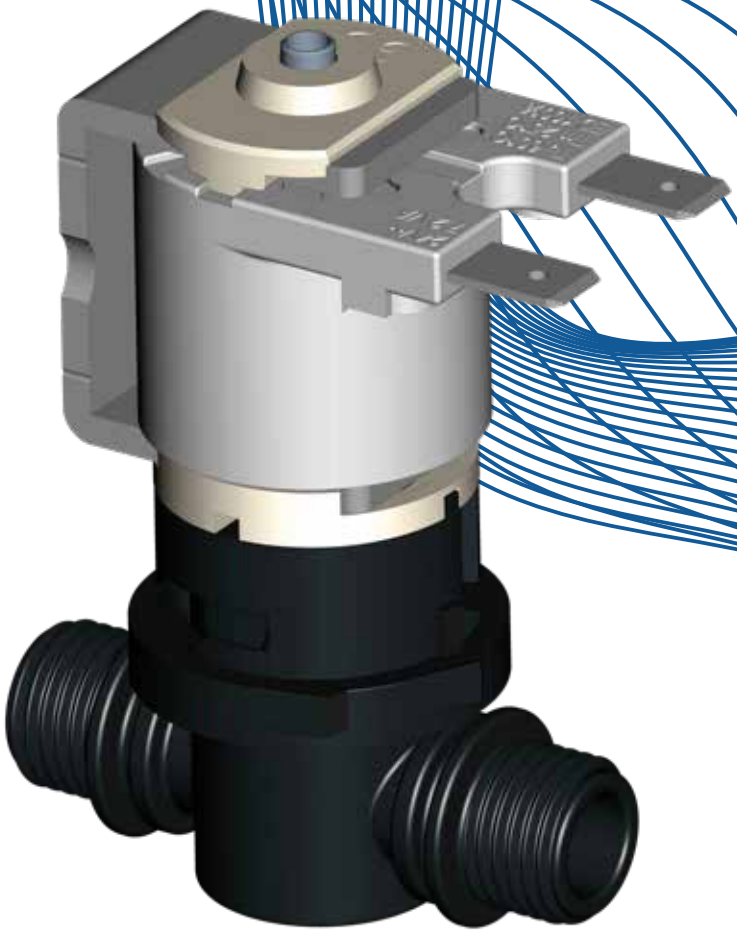
Elettrodomestici
Household appliances

Distributore d'acqua
Water Dispenser

Pulizia professionale
Professional cleaning

Vapore & caffè
Coffee & Steam

Medicale & Riuniti dentali
Medical & Dental units



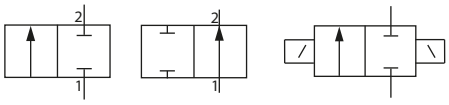
SPECIFICHE TECNICHE

- Corpo valvola: PA 66 30%FV
- Puntalino: NBR
- Nucleo: Acciaio Inox
- Bobine: Classe F (155°)
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-4 bar (DN 3 mm)
  0-6 bar (DN 2,2 mm) 0-10 bar (DN 1,6 mm)
- Temp. Ambiente: TU 60°C
- Temp. Fluido: Tm 65°C - ED 100%

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Core pin: NBR*
- *Core: Stainless Steel*
- *Coils: F class (155°)*
- *Assembly: Bayonet*
- *Working pressure: 0-4 bar (DN 3 mm)*
  0-6 bar (DN 2,2 mm) 0-10 bar (DN 1,6 mm)
- *Room Temperature: TU 60°C*
- *Fluid Temperature: Tm 65°C - ED 100%*

ICONE / *ICONS*



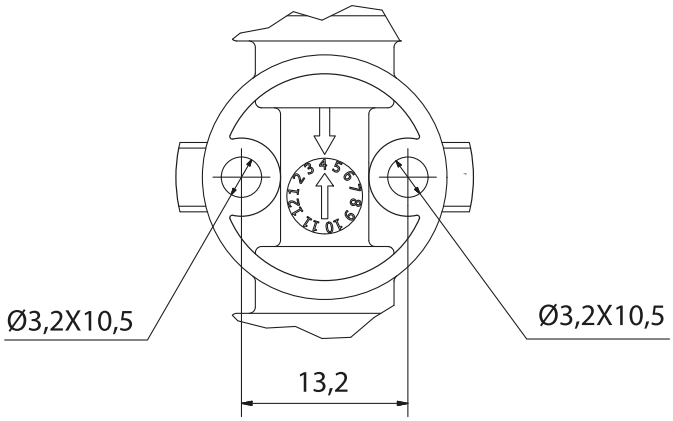
PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni (voltaggi, connessioni, corpi)
  Wide range of customisation (voltages, connections, bodies)
- Valvola compatta / *Compact valve*
- Valvola ad azionamento diretto / *Direct acting valve*
- Disponibile nelle versioni NC, NA e bistabile / *Available in versions NC, NO or latching*
- Opzione apertura e chiusura manuale valvola / *Manual valve opening and closing option*

CERTIFICAZIONI / *CERTIFICATION*

CE UK CA

DETTAGLI DI FISSAGGIO / *FIXING DETAILS*



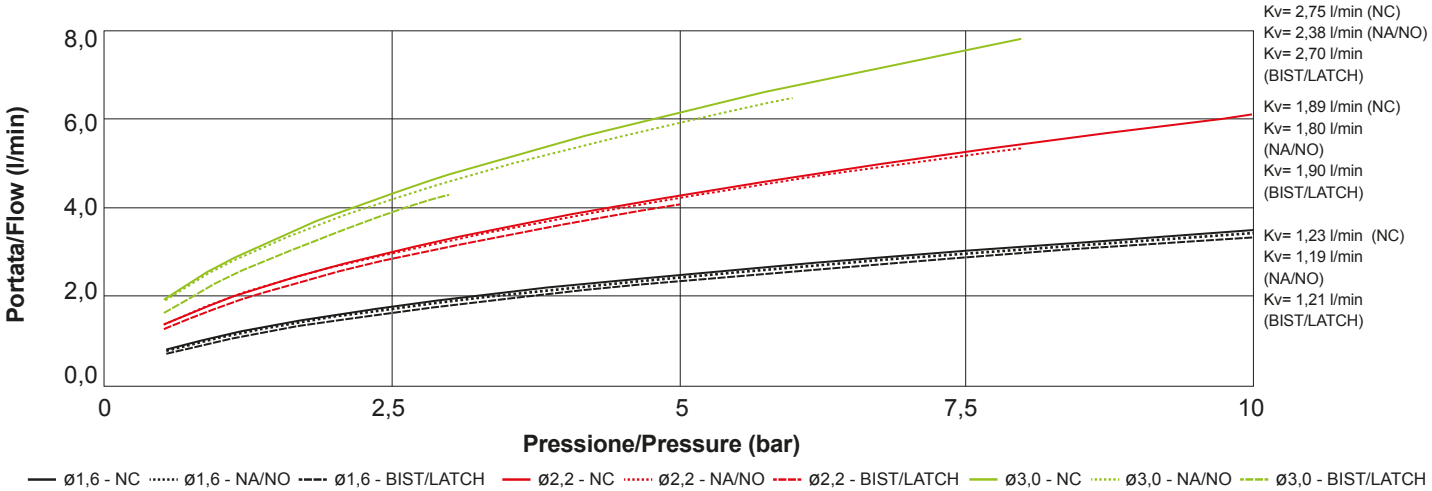
CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 - 4 bar (DN 3 mm)	Working pressure	0 - 4 bar (DN 3 mm)
	0 - 6 bar (DN 2,2 mm)		0 - 6 bar (DN 2,2 mm)
	0 - 10 bar (DN 1,6 mm)		0 - 10 bar (DN 1,6 mm)
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 65° C - ED 100%	Fluid temperatur	Tm 65° C - ED 100%
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm	Unipolar wires max 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires max 5000 mm

Modello Model	IN = OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter
700	1/4" M	200	1,6 - 2,2 - 3 mm
703	PF 4 mm	200	1,6 - 2,2 - 3 mm
702	PF 5 mm	200	1,6 - 2,2 - 3 mm
701	PF 6 mm	200	1,6 - 2,2 - 3 mm

Legenda / *Legend* JG: attacco rapido / *Quick Coupling*

GRAFICO PORTATE SERIE 700 / *FLOW RATES CHART 700 SERIES*



			POTENZA POWER		ASSORBIMENTO CONSUPTION				CONNESSIONI CONNECTIONS		CONTROLLO CONTROL	
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. Holding Power	Potenza di spunto In Rush Power	Assorbim. (mA) in mantenimento Holding Current	Assorbim. (mA) in spunto In Rush Current	cos φ	ED (funzionamento) (duty cycle)	Faston (F) Cavi (wires)*** Unipolari (C)	Cavi (wires)*** bipolari (in mm)	NC	NA** (NO)
1a	12 V AC	50 HZ 60 HZ	2,95 VA 2,50 VA	5,6 VA 5,0 VA	245mA 210 mA	460 mA 420 mA	0,61 0,6	100%	F, C	300, 1000, 1450, 2000, 2500	✓	✓
2b	12 V DC	=	8,40 W	/	705 mA	/	/	100%	F, C		✓	✓
2	12 V DC	=	5,65 W	/	475 mA	/	/	100%	F, C	300, 1000, 1450, 2000, 2500	✓	✓
3	24 V AC	50 HZ 60 HZ	5,15 VA 4,45 VA	8,9 VA 8,0 VA	215 mA 185 mA	370 mA 335 mA	0,61 0,6	100%	F, C	1000, 1450, 2000, 2500	✓	✓
4	24 V AC	=	6,40 W	/	265 mA	/	/	100%	F, C	1000, 1450, 2500	✓	✓
5	L9 DC	=	5 W	/	560 mA	/	/	Latching	F, C	2500	Vedi pagina 136 See page 136	
6	110 V AC	50 HZ 60 HZ	5,40 VA 4,55 VA	8,90 VA 8,15 VA	49 mA 41 mA	81 mA 74 mA	0,63 0,61	100%	F, C	300, 620, 1000, 1450, 2000, 2500	✓	✓
7	230 V AC	50 HZ 60 HZ	6,45 VA 5,48 VA	9,60 VA 9,00 VA	28 mA 24 mA	42 mA 39 mA	0,71 0,68	100%	F, C	300, 620, 1000, 1450, 2000, 2500	✓	✓
8	240 V AC	50 HZ 60 HZ	6,45 VA 5,48 VA	9,60 VA 9,00 VA	28 mA 24 mA	42 mA 39 mA	0,71 0,68	100%	F, C	300, 620, 1000, 1450, 2000, 2500	✓	✓

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: GlowWire
ED: Funzionamento (*Duty Cycles*) = 100%

Faston: IP X0
Cavi (*wires*): IP 55
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F
Tipo faston (*Faston type*): 6,30x0,8mm

(**) I solenoidi NA non sono disponibili con cavi bipolari / *NO solenoids are not available with bipolar wires*

700

M.O.Q.:
200 pcs

IN:
1/4" M

OUT:
1/4" M

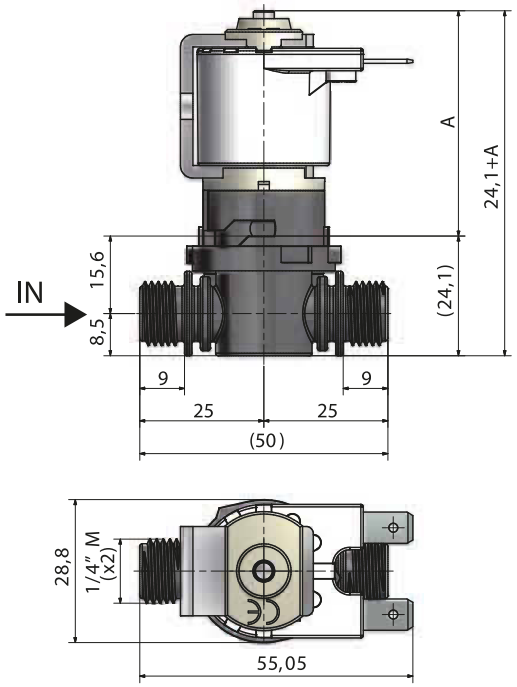
A:
45,3 NC+Faston

43,5 NC+
Cavi/*Cable*

43,6 NA/NO+
Faston

46,6
NA/NO
+Cavi/*Cable*

45,3
Bistabile/*Latching*



701

M.O.Q.:
200 pcs

IN:
1/4" M

OUT:
1/4" M

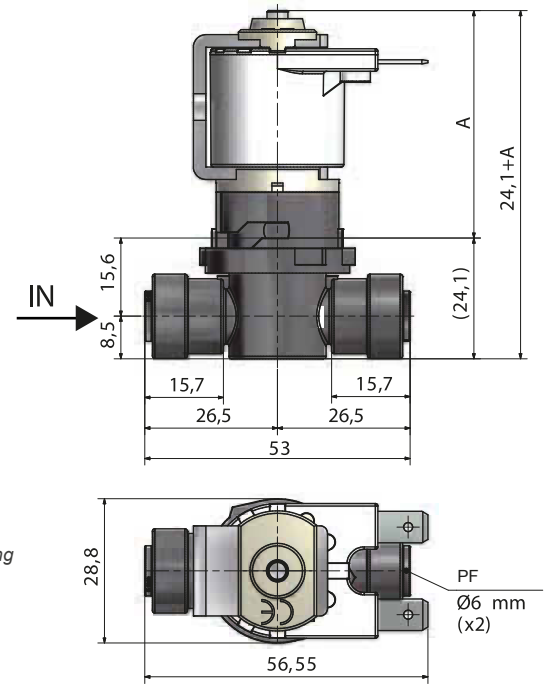
A:
45,3 NC+
Faston

43,5 NC+
Cavi/*Cable*

43,6 NA/NO+
Faston

46,6
NA/NO
+Cavi/*Cable*

45,3
Bistabile/*Latching*



Serie 800
800 Series

Applicazioni / *Applications*

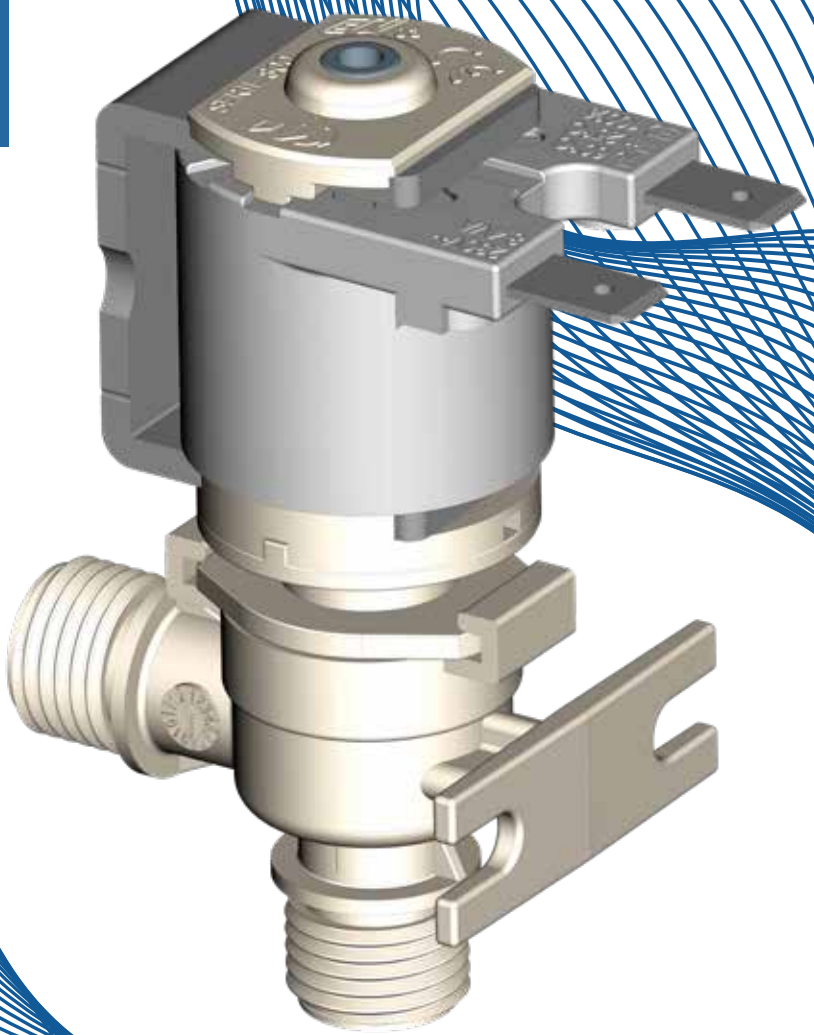
Elettrodomestici
Household appliances

Distributore d'acqua
Water Dispenser

Pulizia professionale
Professional cleaning

Medicale & Riuniti dentali
Medical & Dental units

Vapore & caffè
Coffee & Steam



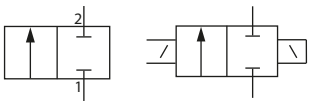
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: NBR; SILICONE; FKM-FPM
- Nucleo: Acciaio inox
- Bobine: Classe F (155°)
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-0,5 bar
- Temp. ambiente: TU 60°C
- Temp. fluido: Tm 90°C - ED 100%

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: NBR; SILICONE; FKM-FPM*
- *Core: Stainless steel*
- *Coils: F class (155°)*
- *Assembly: Bayonet*
- *Working pressure: 0-0,5 bar*
- *Room temperature: TU 60°C*
- *Fluid temperature: Tm 90°C - ED 100%*

ICONE / *ICONS*



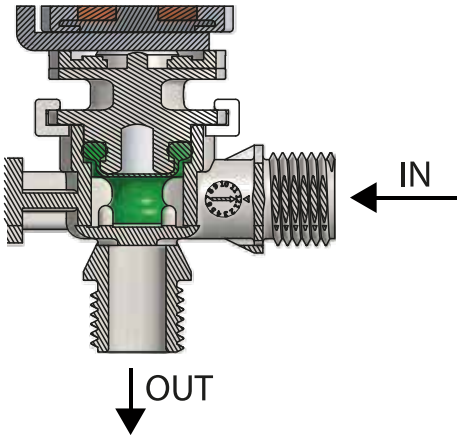
PUNTI DI FORZA / *HIGHLIGHTS*

- Ampia gamma di personalizzazioni (voltaggi, corpi, connessioni)
  Wide range of customisation (voltages, connections, bodies)
- Valvola ad azionamento diretto con diametro interno fino a 8 mm / *Direct acting valve with orifice up to 8 mm*
- Valvola a separazione di fluido / *Fluid separation system*
- Tre differenti membrane disponibili (silicone, NBR, FKM-FPM) / *Available three different diaphragm (silicone, NBR, FKM-FPM)*
- Ideale per applicazioni di scarico acqua a bassa pressione / *Ideal for low pressure water discharge applications*

CERTIFICAZIONI / *CERTIFICATION*

03 CE UK CA

SEPARAZIONE DEI FLUIDI / *MEDIUM SEPARATION*



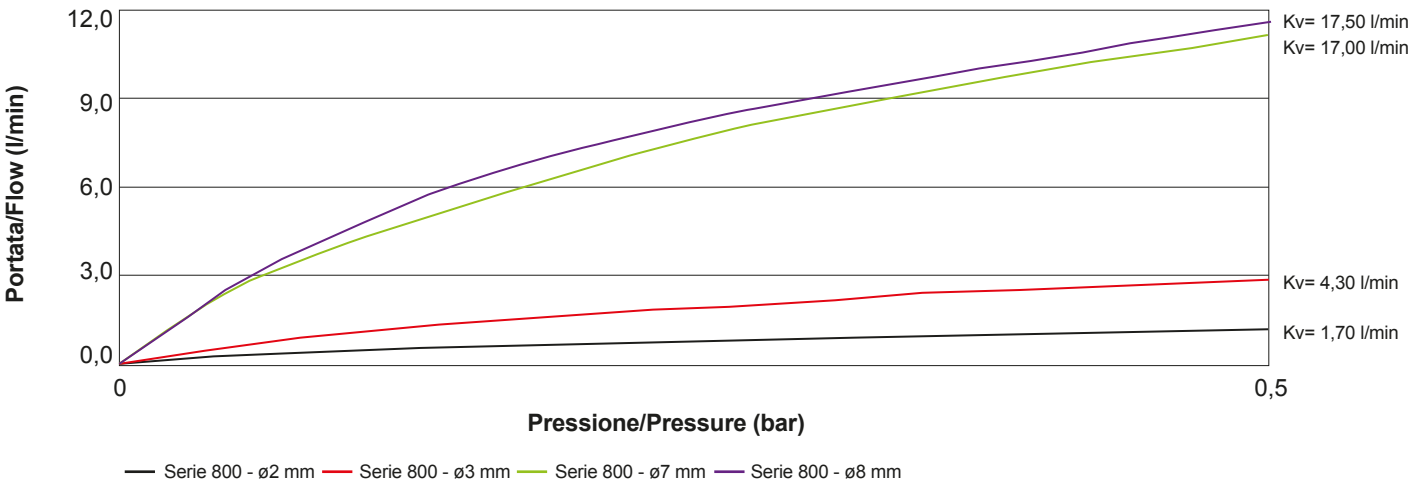
CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 - 0,5 bar	Working pressure	0 - 0,5 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 90° C - ED 100%	Fluid temperature	Tm 90° C - ED 100%
Diametro nominale	DN 2 - 3 - 7 - 8 mm	Orifice	DN 2 - 3 - 7 - 8 mm
Comando	NC; Bistabile	Control	NC; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi unipolari max 5000 mm	Unipolar wires max 5000 mm
Cavi bipolari max 5000 mm	Bipolar wires max 5000 mm

Modello Model	IN	OUT	M.O.Q. (pcs)
803	1/4” M	1/4” M	200
804	1/4” M	PG 10 mm	200
805	PG 10 mm	1/4” M	200
806	PG 10 mm	PG 10 mm	200
807	1/4” M	PG 16 mm	200
809	Attacco rapido 6 mm + 3/8” M	1/4” M	200

Legenda / *Legend* PG: portagomma / *Hose tail*

COMANDO DI CHIUSURA / *CLOSING CONTROL*



			POTENZA POWER		ASSORBIMENTO CONSUPTION				CONNESSIONI CONNECTIONS			CONTROLLO CONTROL	
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. Holding Power	Potenza di spunto In Rush Power	Assorbim. (mA) in mantenimento Holding Current	Assorbim. (mA) in spunto In Rush Current	cos φ	ED (funzionamento) (duty cycle)	Faston (F) Cavi (wires)*** Unipolari (C)	Cavi (wires)*** bipolari (in mm)	Approvazioni Approvals	NC	NA** (NO)
1a	12 V AC	50 HZ 60 HZ	4,4 VA 3,7 VA	6 VA 5 VA	300 mA 266 mA	505 mA 425 mA	0,59 0,57	100%	F, C	300, 1000, 1450, 2000, 2500	Enec	✓	
2b	12 V DC	=	8,5 W	/	710 mA	/	/	100%	F, C		Enec	✓	
2	12 V DC	=	5,4 W	/	440 mA	/	/	100%	F, C	300, 1000, 1450, 2000, 2500	Enec	✓	
3	24 V AC	50 HZ 60 HZ	7,2 VA	9,65 VA 8,20 VA	225 mA 205 mA	405 mA 335 mA	0,6 0,58	100%	F, C	1000, 1450, 2000, 2500	Enec	✓	
4	24 V AC	=	6,3 W	/	265 mA	/	/	100%	F, C	1000, 1450, 2500	Enec	✓	
5	110 V AC	=	7,7 VA	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	100%	F, C	300, 620, 1000, 1450, 2500	Enec	✓	
6	230 V AC	50 HZ 60 HZ	8,4 VA	10,0 VA 9,25 VA	28 mA 26 mA	46 mA 41 mA	0,7 0,67	100%	F, C	300, 620, 1000, 1450, 2000, 2500	Enec	✓	
7	L6 V DC	50 HZ 60 HZ	5 W	/	830 mA	/	/	Latching	F, C	300, 620, 1000, 1450, 2500	/	Latching	
8	240 V	50 HZ 60 HZ	5,8 VA 5,2 VA	10,3 VA 10,1 VA	24 mA 22 mA	43 mA 42 mA	0,73 0,74	100%	F, C	300, 620, 1000, 1450, 2000, 2500	Enec	✓	

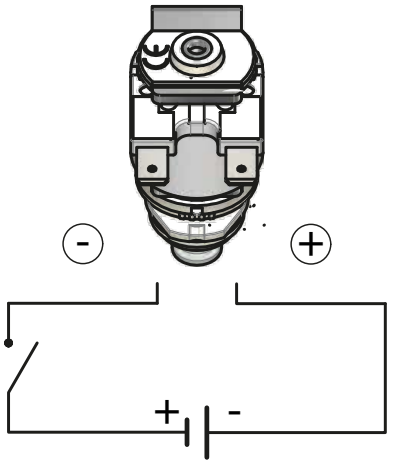
Legenda / *Legend*
NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: GlowWire
ED: Funzionamento (*Duty Cycles*) = 100%

Faston: IP X0
Cavi (*wires*): IP 55
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F
Tipo faston (*Faston type*): 6,30x0,8mm

(**) I solenoidi NA non sono disponibili con cavi bipolari / *NO solenoids are not available with bipolar wires*

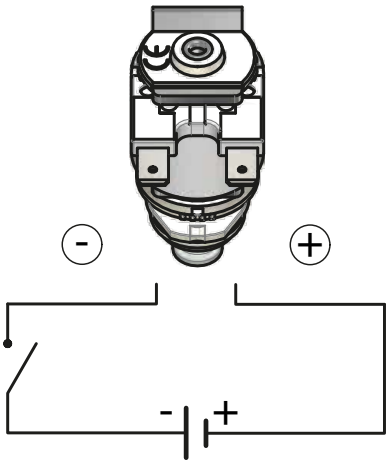
COMANDO DI APERTURA / *OPENING CONTROL* **COMANDO DI CHIUSURA / *CLOSING CONTROL***

ON

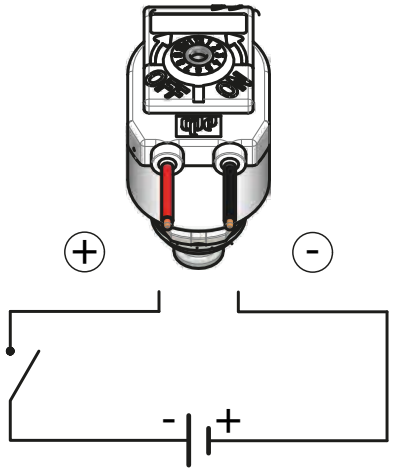


FASTON

OFF

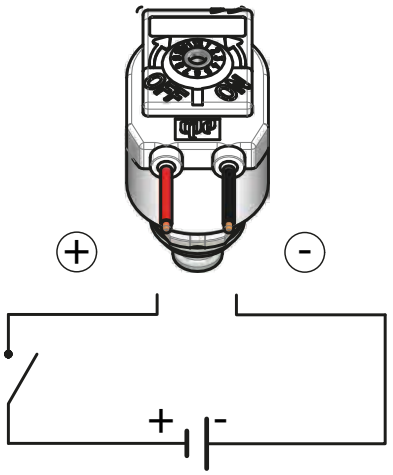


ON

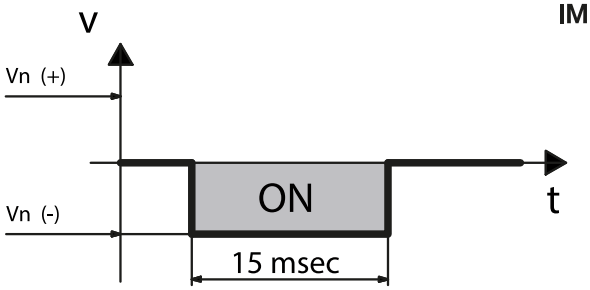


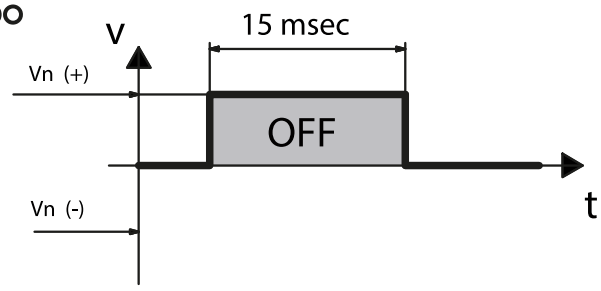
CAVI
Wires

OFF



IMPULSI DI COMANDO
Control impulse





Misure in millimetri - Dimensions in millimeters

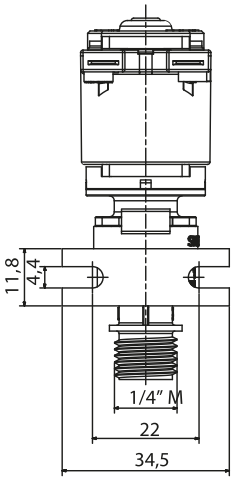
803

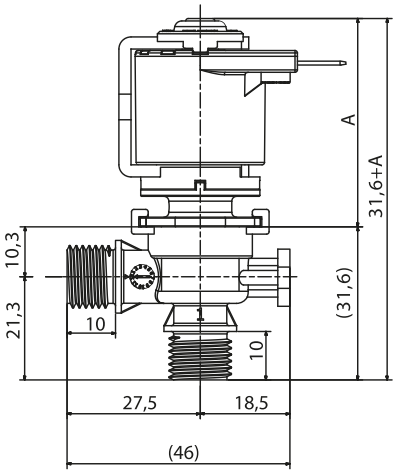
M.O.Q.:
200 pcs

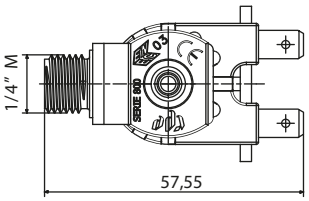
IN
1/4 " M

OUT
1/4 " M

A: 43,5 NC+Faston
43,5 NC+cavi/*cable*







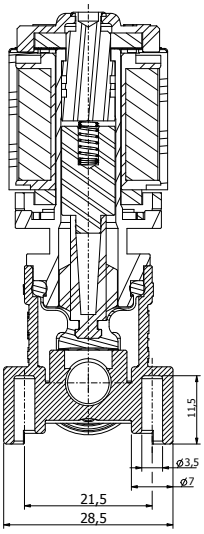
800 PF 8

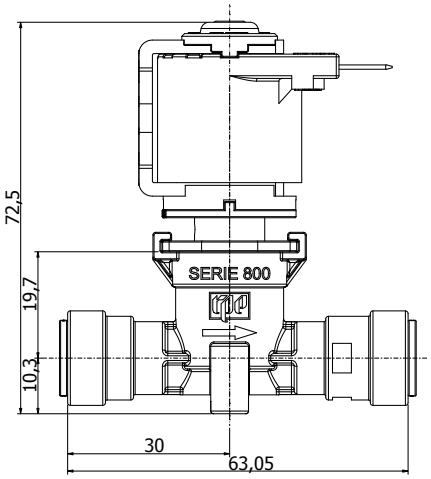
M.O.Q.:
200 pcs

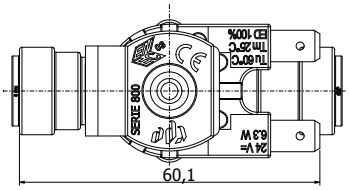
IN
PF 8

OUT
PF 8

A: 42,5





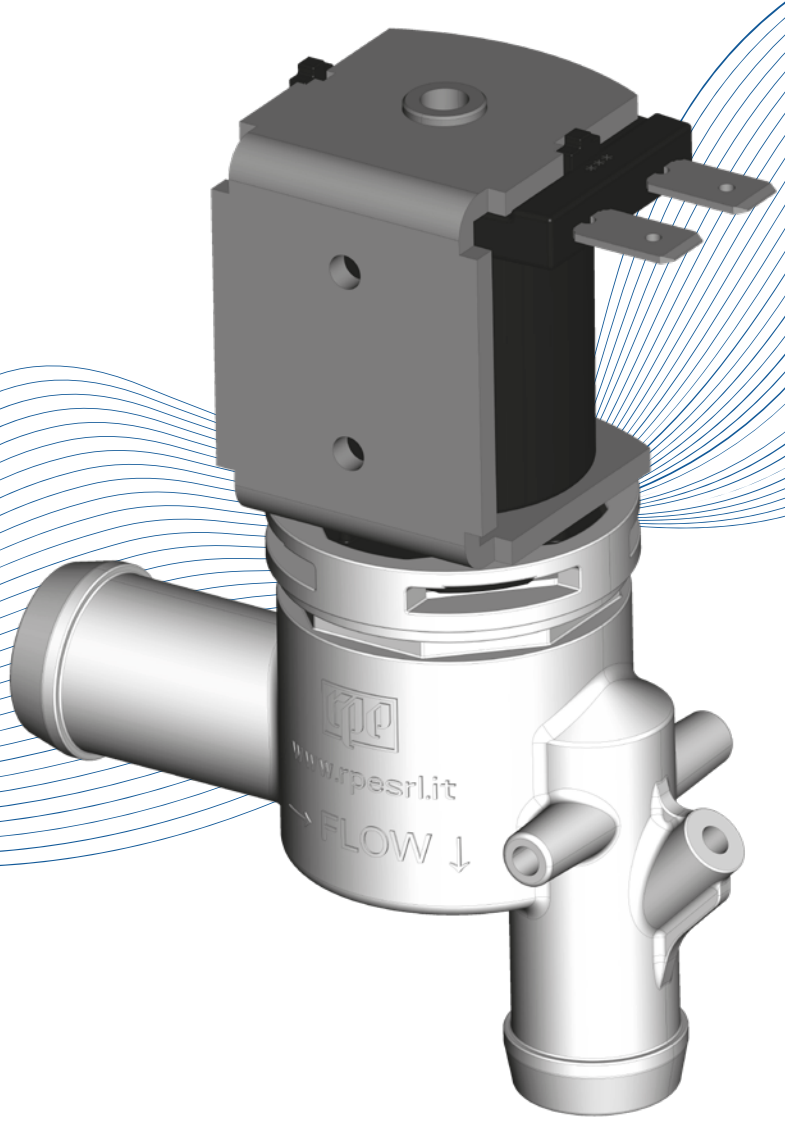


Serie 800D
800D Series

Applicazioni / *Applications*

Elettrodomestici
Household appliances

Pulizia professionale
Professional cleaning



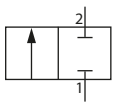
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: LSR
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-0,7 bar / 0-1 PSI
- Temp. ambiente: 0-60°C
- Temp. fluido: 0-80°C

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: LSR*
- *Core: Stainless steel*
- *Spring: Stainless steel*
- *Assembly: Bayonet*
- *Working pressure: 0-0,7 bar / 0-1 PSI*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-80°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Materiali approvati per alimenti / *Food approved materials*
- Valvola ad azionamento diretto con diametro interno di 12,75 mm
  Direct acting valve with 12,75 mm orifice
- Separazione di fluido / *Fluid separation system*
- Bobina con materiali certificati UL / *Coil with UL certified materials*
- Ideale per drenaggio fluidi a bassa pressione / *Ideal for low pressure fluid drainage*

CERTIFICAZIONI / *CERTIFICATION*

CE UKCA

Serie 800D
800D Series

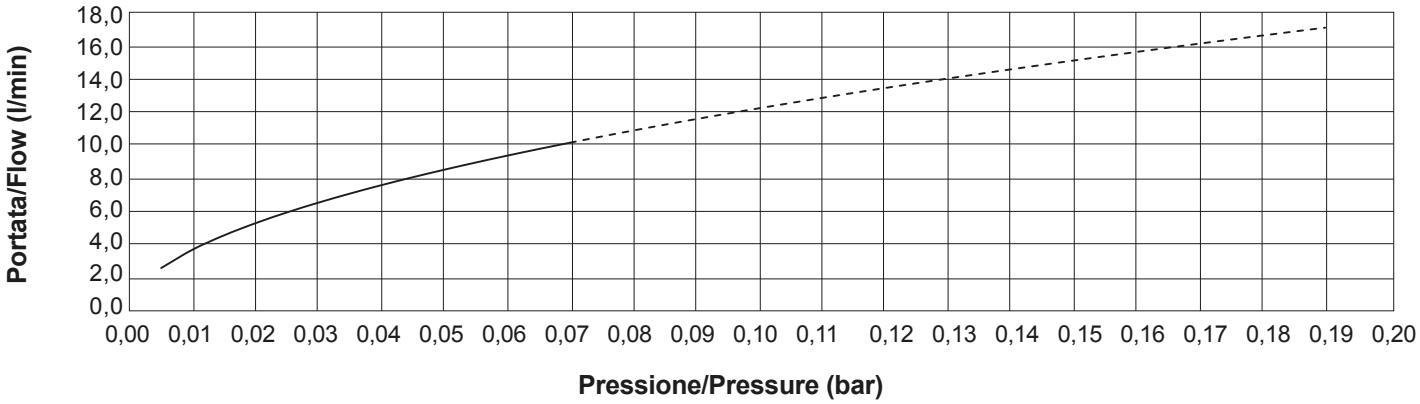
CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 ÷ 0,07 bar - 0 ÷ 1,0 PSI	Working pressure	0 ÷ 0,07 bar - 0 ÷ 1,0 PSI
Temp. ambiente	0 ÷ 60°C	Room temperature	0 ÷ 60°C
Temperatura fluido	0 ÷ 80°C	Fluid temperature	0 ÷ 80°C
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Diametro di passaggio	Ø 12,75 mm	Nominal diameter	Ø 12,75 mm

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston maschi 6,3 x 0,8 mm	6,3 x 0,8 mm male Faston

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Temp. ambiente Room temperature	Temp. fluido Fluid temperature
Serie 800 D	PG 18 mm	PG 16 mm	100	12,75 mm	0 - 0,7 bar	0 - 60 °C	0 - 80 °C
Serie 800 D	G 3/4 BSPP	PG 16 mm	100	12,75 mm	0 - 0,7 bar	0 - 60 °C	0 - 80 °C

Legenda / *Legend* PG: portagomma / *Hose tail*

GRAFICO PORTATE / *FLOW RATES CHART*



Codice progress./ Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim./ Holding Power	Assorbim. (mA) in mantenimento / Holding Current	ED (funzionamento) (duty cycle)
1	24 V AC (S221)	50/60 Hz	12 VA	489 mA	100%
2	24 V DC (S211)	=	9,0 VA	375 mA	100%
3	110 V AC 120 V AC (S226)	50 Hz 60 Hz	12,65 VA 12 VA	115 mA 100 mA	100%
4	230 V AC (S220)	50/60 Hz	12,2 VA	53 mA	100%

(*) I solenoidi NA non sono disponibili con cavi bipolari / NO solenoids are not available with bipolar wires

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
GW: Glow Wire
UL: Underwriters Laboratories

Cavi / Wires: IP 55
Classe isolamento / *Insulation class: II*
Classe isolamento bobina / *Coil insulation class: F*
Tipo Faston / *Faston type: 6,3 x 0,8 mm*

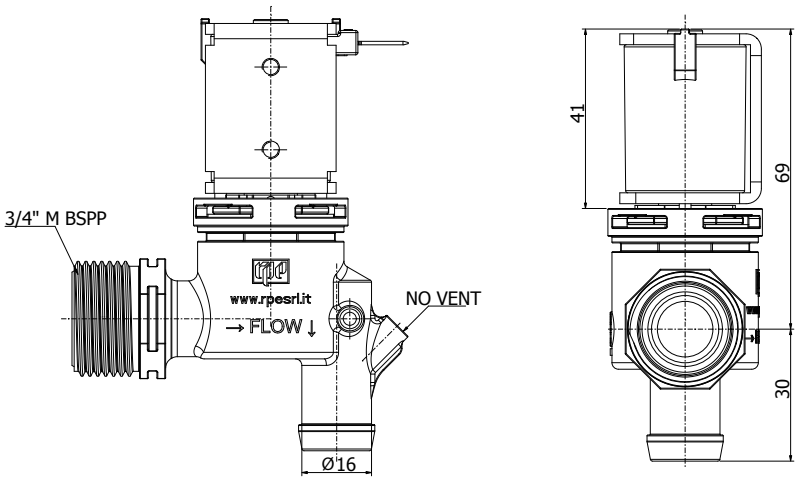
SERIE 800D 3/4” M BSPP - PG 16 NO VENT / *800D SERIE 3/4” M BSPP - PG 16 NO VENT*

M.O.Q.:
100 pcs

IN:
3/4" M BSPP

OUT:
PG ø 16

A:41



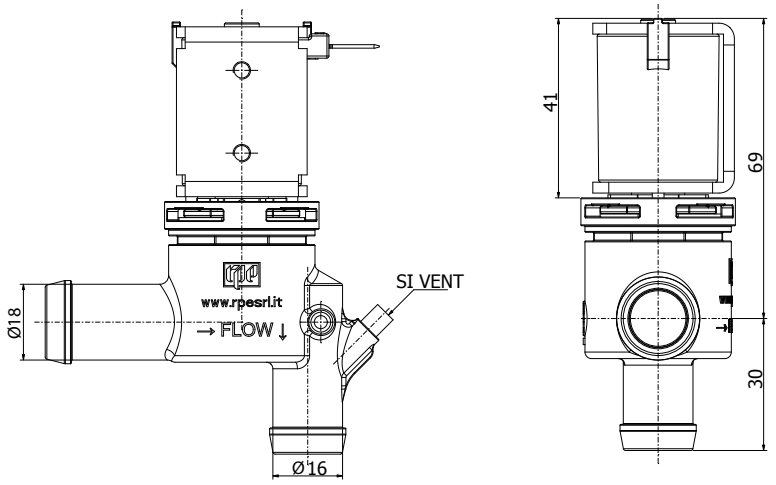
SERIE 800D PG 18 PG 16 SI VENT / *800D SERIE PG 18 PG 16 WITH VENT*

M.O.Q.:
100 pcs

IN:
PG ø 18

OUT:
PG ø 16

A:41



Serie 800D Alta Temperatura

800D Series - High Temperature

Applicazioni / *Applications*

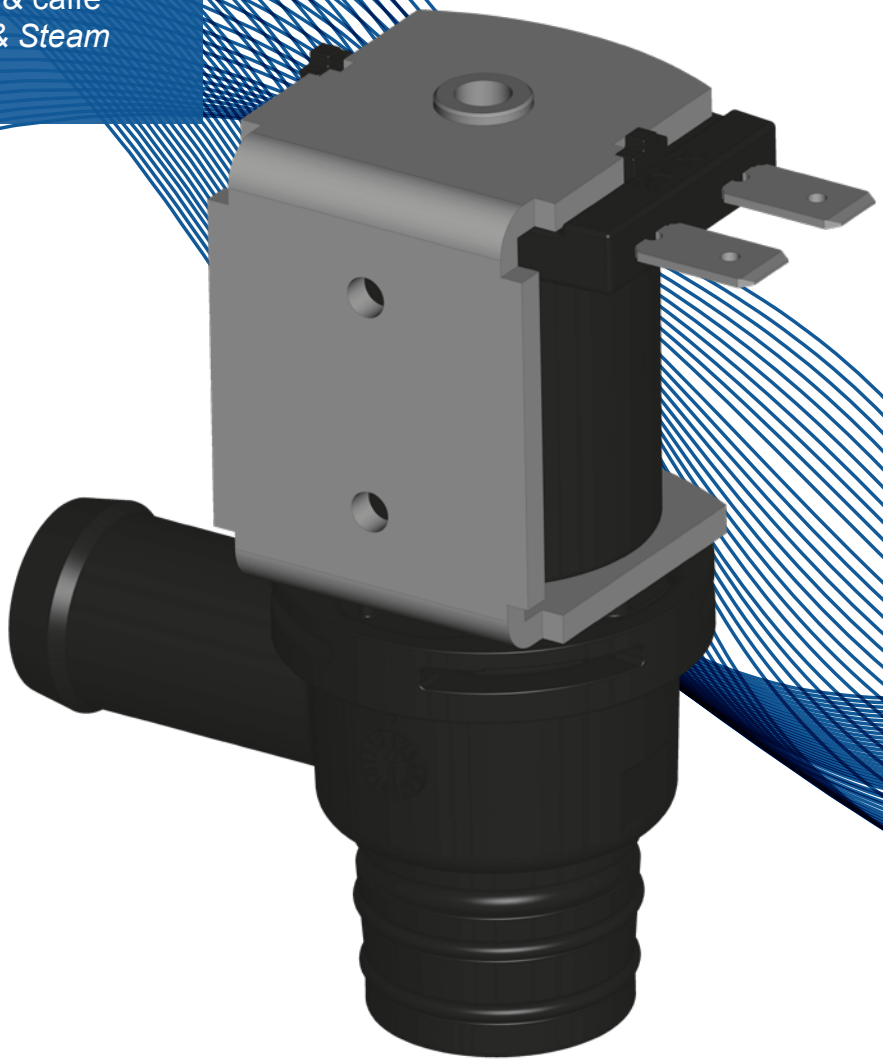
Elettrodomestici
Household appliances

Distributore d'acqua
Water Dispenser

Pulizia professionale
Professional cleaning

Medicale & Riuniti dentali
Medical & Dental units

Vapore & caffè
Coffee & Steam



Serie 800D Alta Temperatura
800D Series - High Temperature

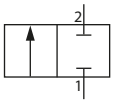
SPECIFICHE TECNICHE

- Corpo valvola: PPA GF 40
- Membrana: LSR
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-0,7 bar / 0-1,0 PSI
- Temp. ambiente: 0-60 bar
- Temp. fluido: 0-99 bar

TECHNICAL SPECIFICATIONS

- *Valve body: PPA GF 40*
- *Diaphragm: LSR*
- *Core: Stainless steel*
- *Coils: Stainless steel*
- *Assembly: Bayonet*
- *Working pressure: 0-0,7 bar / 0-1,0 PSI*
- *Room temperature: 0-60 bar*
- *Fluid temperature: 0-99 bar*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Materiali approvati per alimenti / *Food approved materials*
- Ideale per applicazioni ad alta temperatura fino a 99°C
  Ideal for high temperature applications up to 99°C
- Separazione di fluido / *Fluid separation system*
- Bobina con materiali certificati UL / *Coil with UL certified materials*
- Ideale per drenaggio fluidi a bassa pressione / *Ideal for low pressure fluid drainage*

CERTIFICAZIONI / *CERTIFICATION*

CE UKCA

Serie 800D Alta Temperatura

800D Series - High Temperature

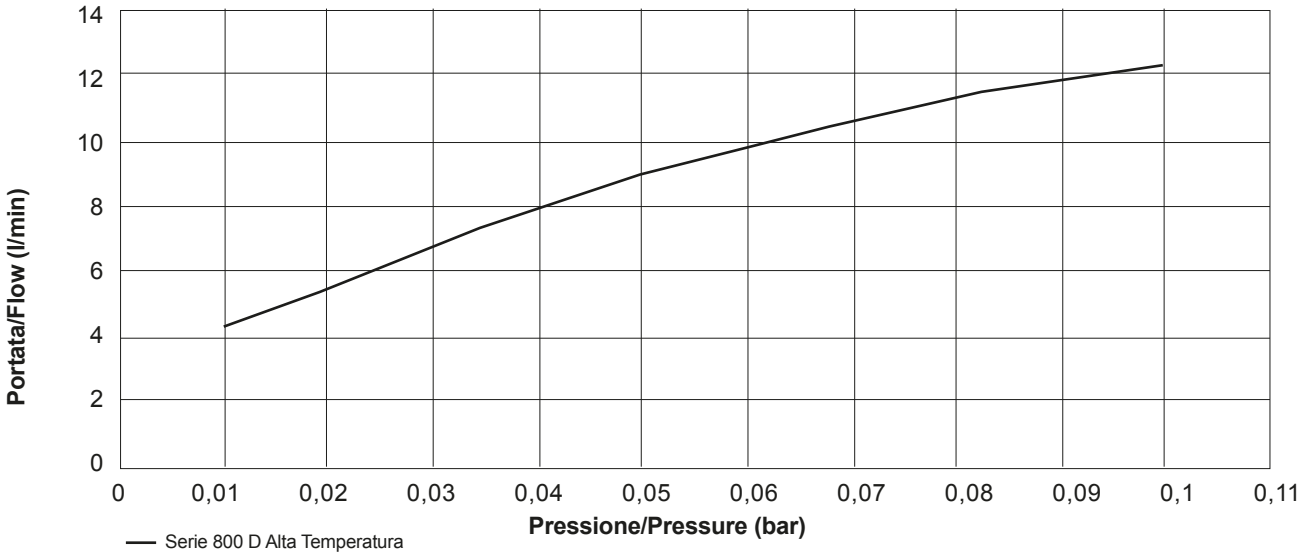
CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 ÷ 0,07 bar - 0 ÷ 1,0 PSI	Working pressure	0 ÷ 0,07 bar - 0 ÷ 1,0 PSI
Temp. ambiente	0 ÷ 60°C	Room temperature	0 ÷ 60°C
Temperatura fluido	0 ÷ 99°C	Fluid temperature	0 ÷ 99°C
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Diametro di passaggio	Ø 12,75 mm	Nominal diameter	Ø 12,75 mm
Elet.Pilota/Comando	Apertura diretta	Elect.Pilot/Control	Direct open

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston maschi 6,3 x 0,8 mm	6,3 x 0,8 mm male Faston

CONNESSIONI IDRAULICHE		*HYDRAULIC CONNECTIONS*	
Ingresso	Portagomma Ø 16 mm	Hose Connector Ø 16 mm	Inlet
Uscita	O-ring e Forchetta	O-ring sealing and Fork	Outlet

Modello Model	IN	OUT	M.O.Q. (pcs)	Vent
800D 2	PG 16	O-ring + forchetta/fork	80	X

GRAFICO PORTATE / *FLOW RATES CHART*



Serie 800D Alta Temperatura

800D Series - High Temperature

Codice progress./ Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim./ Holding Power	Assorbim. (mA) in mantenimento / Holding Current	ED (funzionamento) (duty cycle)
1	24 V AC (S221)	50/60 Hz	12 VA	489 mA	100%
2	24 V DC (S211)	=	9,0 VA	375 mA	100%
3	110 V AC 120 V AC (S226)	50 Hz 60 Hz	12,65 VA 12 VA	115 mA 100 mA	100%
4	230 V AC (S220)	50/60 Hz	12,2 VA	53 mA	100%

(*) I solenoidi NA non sono disponibili con cavi bipolari / NO solenoids are not available with bipolar wires

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
GW: Glow Wire
UL: Underwriters Laboratories

Cavi / Wires: IP 55
Classe isolamento / *Insulation class: II*
Classe isolamento bobina / *Coil insulation class: F*
Tipo Faston / *Faston type: 6,3 x 0,8 mm*

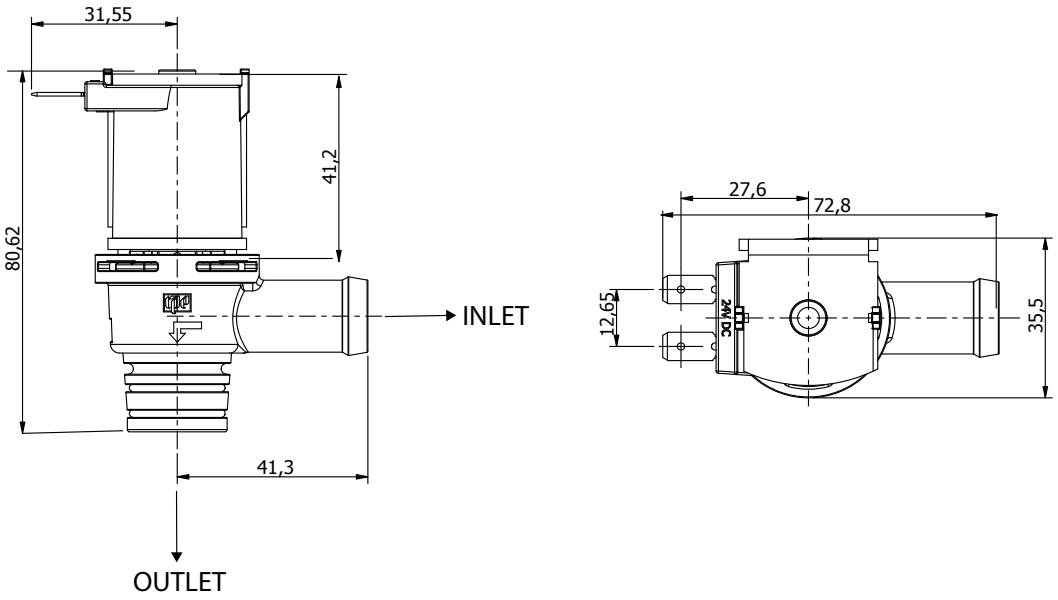
800D ALTA TEMPERATURA / 800D HIGH TEMPERATURE

M.O.Q.:
80 pcs

IN:
PG 16

OUT:
O-ring+
forchetta/fork

A:41,2



Serie 890
890 Series

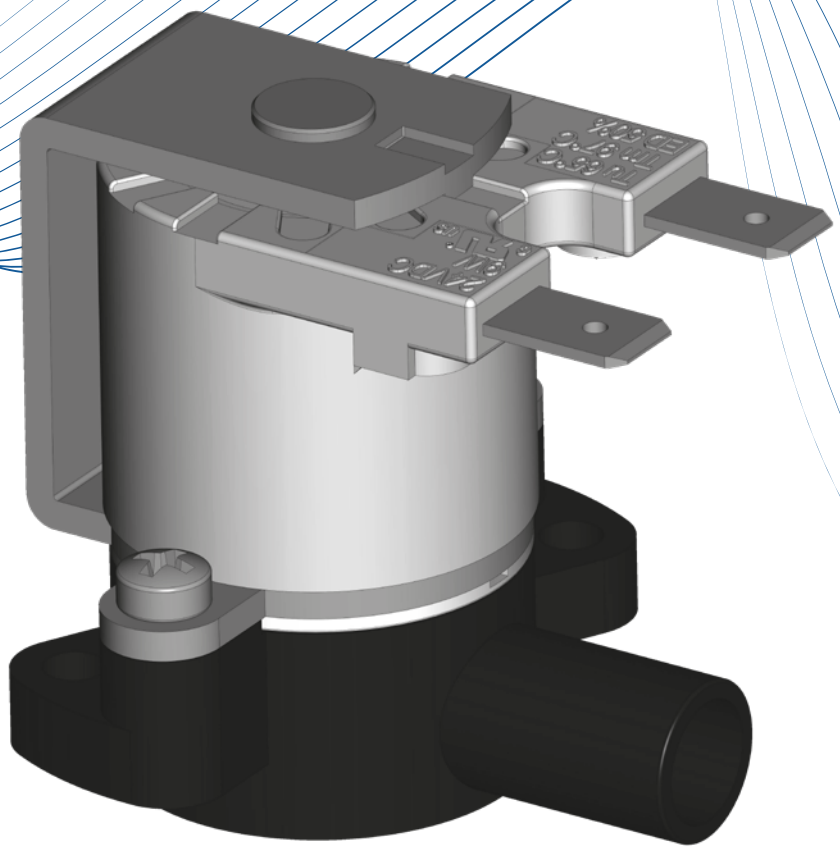
Applicazioni / *Applications*

Bevande e filtrazione
Beverage & filtering

Vapore & caffè
Coffee & Steam

Elettrodomestici
Household appliances

Medicale & Riuniti dentali
Medical & Dental units



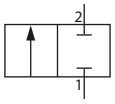
SPECIFICHE TECNICHE

- Corpo valvola: PA 66
- Membrana: Silicone
- Nucleo: Acciaio inossidabile
- Molla: Acciaio inossidabile
- Assemblaggio: Viti
- Pressione di esercizio: 0-0,1 bar
- Temp. ambiente: Max 60°C
- Temp. fluido: Max 98°C

TECHNICAL SPECIFICATIONS

- *Valve body: PA 66*
- *Diaphragm: Silicone*
- *Core: Stainless steel*
- *Coils: Stainless steel*
- *Assembly: Screw*
- *Working pressure: 0-0,1 bar*
- *Room temperature: Max 60°C*
- *Fluid temperature: Max 98°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Materiali approvati per alimenti / *Food approved materials*
- Ideale per applicazioni ad alta temperatura fino a 98°C
  Ideal for high temperature applications up to 98°C
- Separazione di fluido / *Fluid separation system*
- Bobina con materiali certificati UL / *Coil with UL certified materials*
- Ideale per drenaggio fluidi a bassa pressione / *Ideal for low pressure drainage*

CERTIFICAZIONI / *CERTIFICATION*

CE UKCA

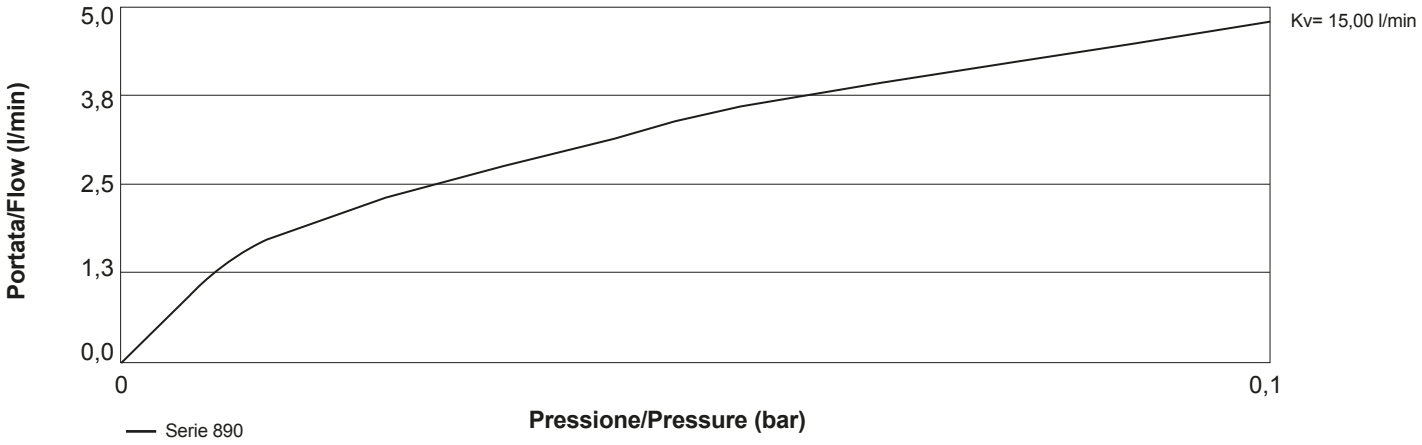
Serie 890
890 Series

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 ÷ 0,1bar	Working pressure	0 ÷ 0,1bar
Temp. ambiente	MAX 60°C	Room temperature	MAX 60°C
Temperatura fluido	MAX 98°C	Fluid temperature	MAX 98°C
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Diametro di passaggio	Ø 8mm	Nominal diameter	Ø 8mm
Elet.Pilota/Comando	NC	Elect.Pilot/Control	NC

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Temp. ambiente Room temperature	Temp. fluido Fluid temperature
890	PG 10,5	Flangia	108	8 mm	0 - 0,1 bar	60° C	98° C

Legenda / *Legend* PG: portagomma / *Hose tail*

GRAFICO PORTATE SERIE VAPORE / *FLOW RATES CHART STEAM SERIES*



Flow data is approssimate and will affected by applications variables
Water temperature at 23°C

			Potenza Power		Assorbimento Consuption			
Codice progress./ Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim./ Holding Power	Potenza di spunto / in rush power	Assorbim. (mA) in mantenimento / Holding Current	Assorbimento (mA) di spunto / in rush power	cosφ	ED (funzionamento) (duty cycle)
1	24 V DC	=	9 W	/	370 mA	/	/	50%
2	120 V	50 Hz 60 Hz	5,9 VA 4,2 VA	13 VA 12,8 VA	49 mA 55.3 mA	108 mA 106 mA	0.58 0.57	50%
3	240 V	50 Hz 60 Hz	5,3 VA 4,4 VA	14 VA 13,4 VA	22.2 mA 18.2 mA	58 mA 56 mA	0.58 0.57	50%

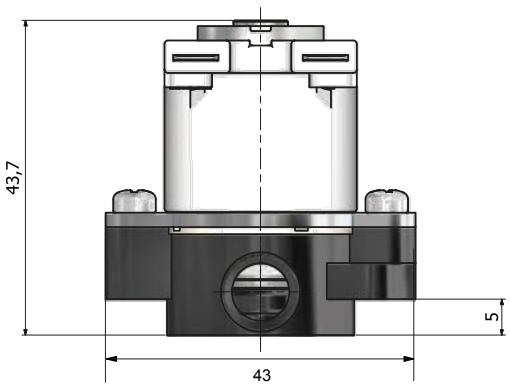
Legenda / *Legend* ED Funzionamento / *Duty Cycle = 50%* Classe isolamento / *Insulation class II*
Approvazioni / *Approvals*: ENEC, UL, GW Classe isolamento bobina / *Coil insulation class F*
Faston IP X0 Tipo faston *(Faston type) 6,3 × 0,8 mm*

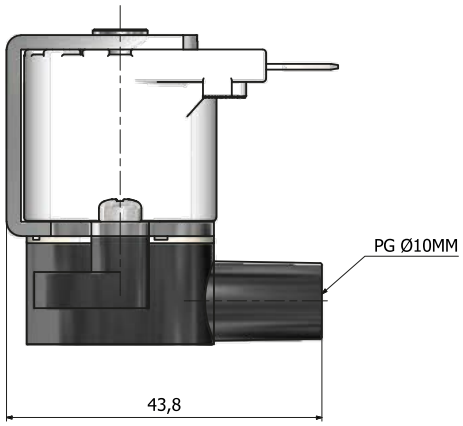
SERIE 890 / *890 SERIES*

M.O.Q.:
108 pcs

IN:
PG 10 mm

OUT:
Flangia/*Flange*



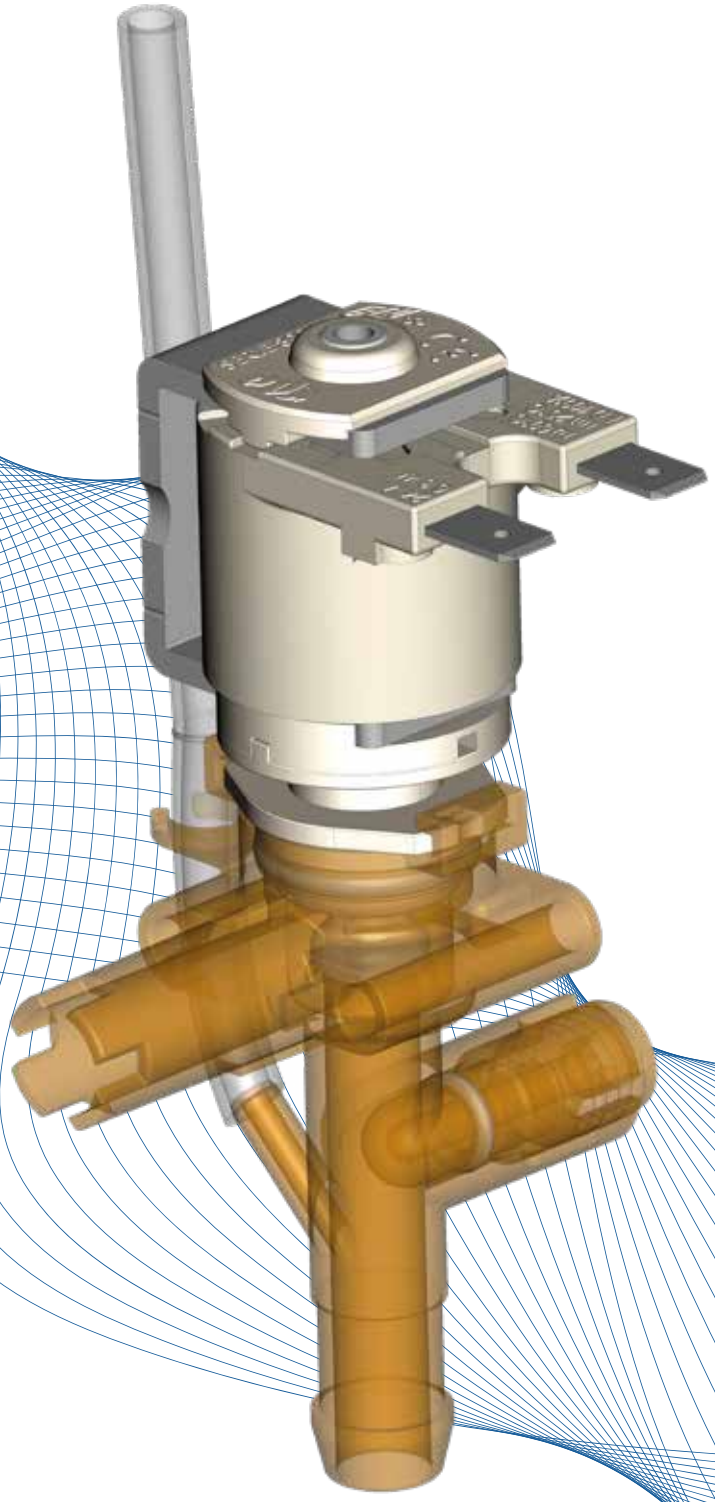


Serie RD Vent
RD Vent Series

Applicazioni / *Applications*

Bevande e filtrazione
Beverage & filtering

Vapore & caffè
Coffee & Steam



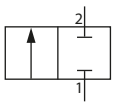
SPECIFICHE TECNICHE

- Corpo valvola: PPSU
- Membrana: LSR
- Nucleo: Acciaio inox / EN1.4106
- Molla: Acciaio inox / AISI 316
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-1,0 bar
- Temp. ambiente: Max 60°C
- Temp. fluido: Max 98°C

TECHNICAL SPECIFICATIONS

- *Valve body: PPSU*
- *Diaphragm: LSR*
- *Core: Stainless steel / EN1.4106*
- *Coils: Stainless steel / AISI 316*
- *Assembly: Bayonet*
- *Working pressure: 0-1,0 bar*
- *Room temperature: Max 60°C*
- *Fluid temperature: Max 98°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola a caduta per applicazioni da 0 – 0,1 bar / *Dump valve for applications from 0-0,1 bar*
- Ideale per riempimento e svuotamento di taniche / *Ideal for filling and emptying tanks*
- Gestisce fluidi a alta e bassa temperatura / *Handles high and low temperature fluids*
- Facilità di manutenzione grazie ad adjuster facile da usare
  Easy mantenance thanks to easy use of adjuster

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

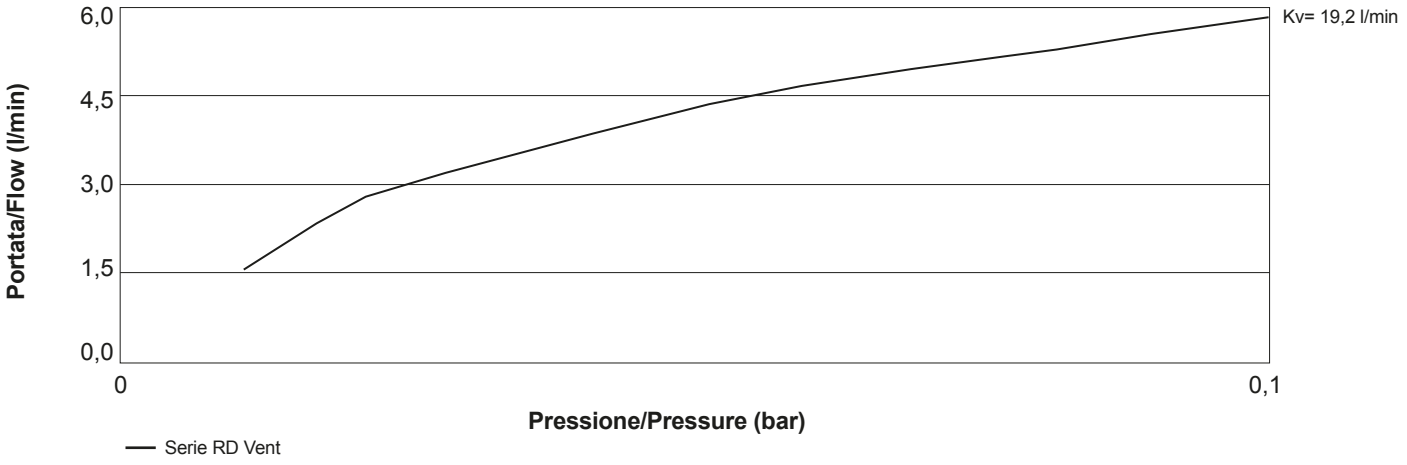
Serie RD Vent
RD Vent Series

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0-0.1 bar	Working pressure	0-0.1 bar
Temp. ambiente	Max 60°c	Room temperature	Max 60°c
Temperatura fluido	Max 98°c	Fluid temperature	Max 98°c
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Diametro di passaggio	ø8mm	Nominal diameter	ø8mm
Elet.Pilota/Comando	NC	Elect.Pilot/Control	NC

CONNESSIONI IDRAULICHE		*HYDRAULIC CONNECTIONS*	
Ingresso	Codolo ø12mm	Inlet	Spigot ø12mm
Uscita	Portagomma ø10mm	Outlet	Hose tail ø10mm
	Codolo ø10mm		Spigot ø10mm

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Regolatore di portata Flow regulator	Sfiato Vent
RD	Spigot 10 mm	Hose Tail 10,5 mm	160	8 mm	0 - 0,1 bar	✓	✓
RD	Spigot 10 mm	Hose Tail 10,5 mm	160	8 mm	0 - 0,1 bar		✓
RD	Spigot 10 mm	Hose Tail 10,5 mm	160	8 mm	0 - 0,1 bar	✓	
RD	Spigot 10 mm	Hose Tail 10,5 mm	160	8 mm	0 - 0,1 bar		

GRAFICO PORTATE SERIE RD VENT / *FLOW RATES RD VENT SERIES*



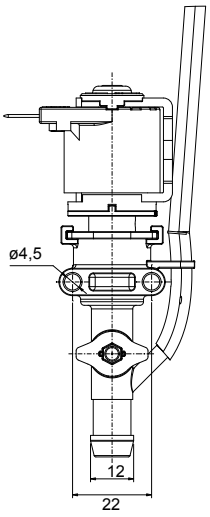
Codice progress./ Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim./ Holding Power	Assorbimento Consumption	ED (funzionamento) (duty cycle)	Connessioni Connections	Approvaz Approvals	NC	NA* (NO)	Bistabile Latching
1	24 DC	=	6,3 W	240 mA	100%	Faston	Enec solo faston	/	✓	/

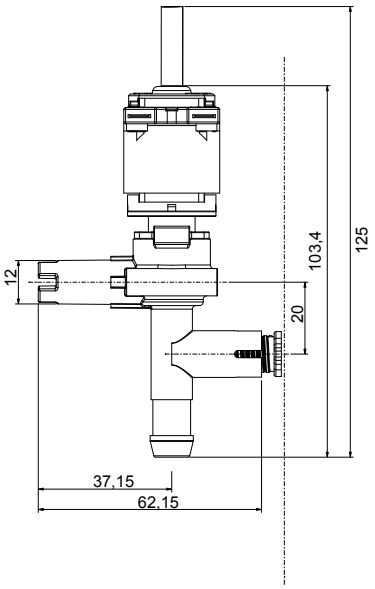
SERIE RD VENT / *RD VENT SERIES*

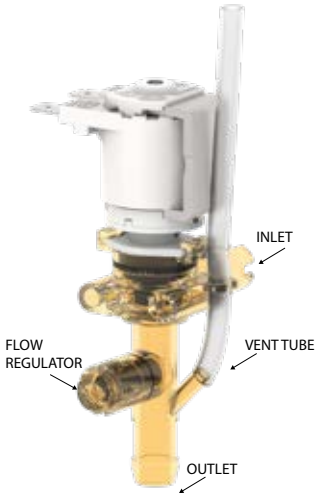
SCHEMA FUNZIONAMENTO / *WORKING SCHEME*

IN:
codolo/*spigot*
ø12 mm

OUT:
PG ø10 mm
codolo/*spigot*
ø12 mm







Serie 900
900 Series

Applicazioni / *Applications*

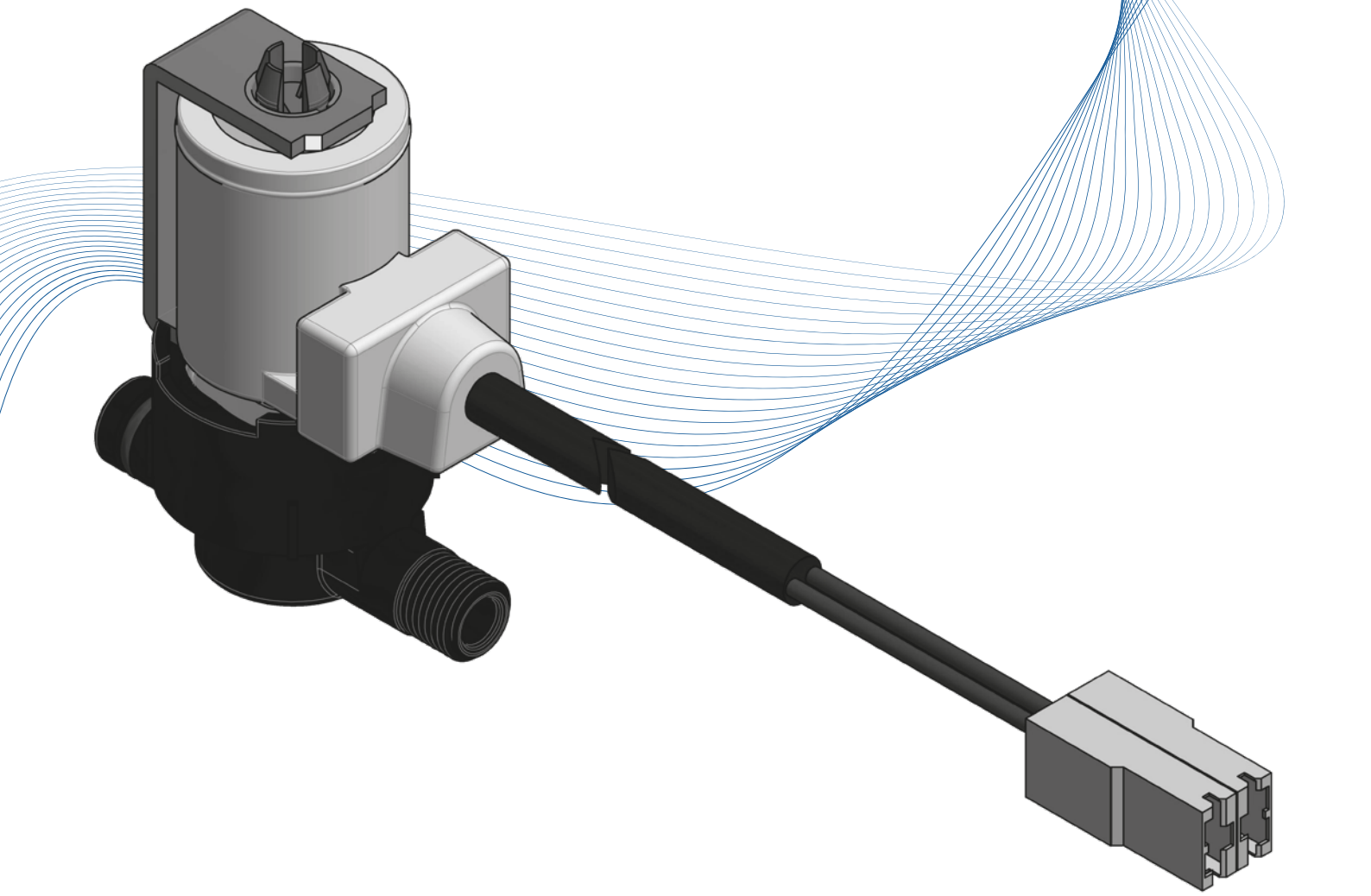
Pulizia professionale
Professional cleaning

Elettrodmestico
Household appliances

Bevande e filtrazione
Beverage & filtering

Vapore e caffè
Coffee & Steam

Medicale e riuniti dentali
Medical & dental units



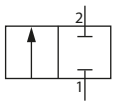
SPECIFICHE TECNICHE

- Corpo valvola: PPO-20%FV
- Membrana: NBR
- Nucleo: Acciaio inox
- Bobine: Classe F (155°)
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-0,2 bar
- Temp. ambiente: TU 60°C
- Temp. fluido: Tm 90°C - ED 100%

TECHNICAL SPECIFICATIONS

- *Valve body: PPO-20%GV*
- *Diaphragm: NBR*
- *Core: Stainless steel*
- *Coils: F CLASS (155°)*
- *Assembly: Bayonet*
- *Assembly: Bayonet*
- *Working pressure: 0-0,2 bar*
- *Room temperature: TU 60°C*
- *Fluid temperature: Tm 90°C - ED 100%*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Ideale per differenti applicazioni (idrosanitari, lavapavimenti…)
  Ideal for different applications (sanitary, floor cleaning…)
- Dimensioni contenute (solo 52,5 mm) / *Small size (only 52,5 mm)*
- Diverse connessioni elettriche (Faston, cavi) / *Different electrical connections (Faston, cable)*
- Funzionamento a caduta (da 0 a 0,2 bar) / *Drop-down operation (from 0 to 0,2 bar)*
- Materiale plastico resistente / *Resistant plastic material*

CERTIFICAZIONI / *CERTIFICATION*

CE UK CA

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 - 0,2 bar	Working pressure	0 - 0,2 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 90° C - ED 100%	Fluid temperature	Tm 90° C - ED 100%
Diametro nominale	DN 3 mm	Orifice	ND 3 mm
Comando	NC	Control	NC
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm
Cavi bipolari max 2100 mm	Bipolar wires max 2100 mm

GAMMA SOLENOIDI		*SOLENOIDS RANGE*	
24 V AC	50/60 HZ	24 V AC	50/60 HZ
230 V AC	50/60 HZ	230 V AC	50/60 HZ

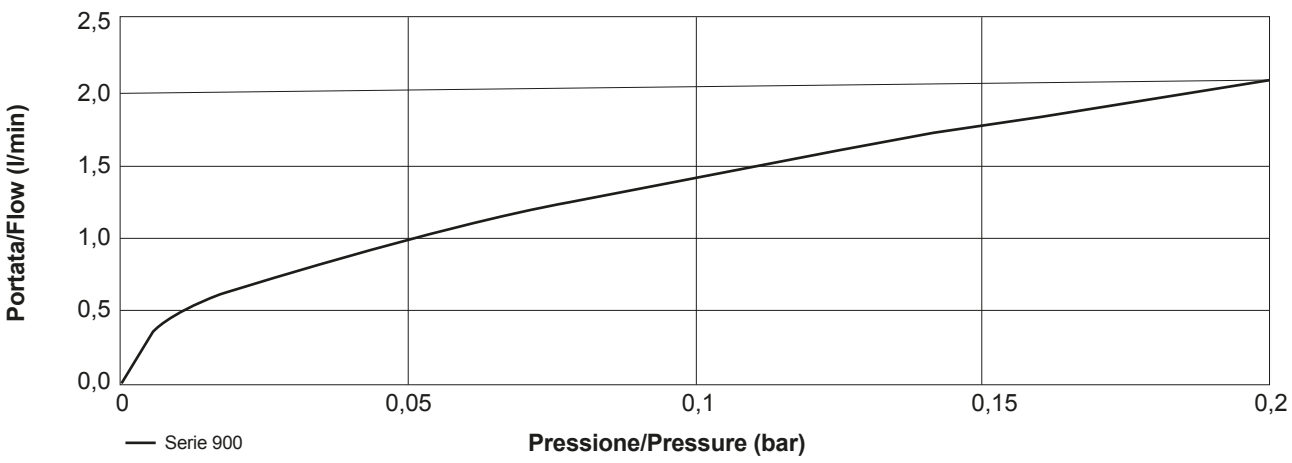
Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Connessione elettrica Electrical connection
900.000.A24AC	M custom	1/8" M	200	3 mm	Faston
900.020.A24AC	M custom	1/8" M	200	3 mm	Cavo 600 mm Wire 600 mm
900.040.A24AC	M custom	1/8" M	200	3 mm	Cavo 930 mm Wire 930 mm
900.010.A24AC	M custom	1/8" M	200	3 mm	Cavo 1450 mm Wire 1450 mm

Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza Power	Assorbimento Consuption	ED (funzionamento) (duty cycle)	NC	NA (NO)
1	24 V AC	50 HZ 60 HZ	6,2 VA		100%	✓	✓
2	230 V AC	50 HZ 60 HZ	5,6 VA		100%	✓	✓

Legenda / *Legend*
NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire
ED Funzionamento / Duty Cycle = 100%

Faston: IP XO
Cavi / Wires: IP 55
Classe isolamento / *Insulation class: II*
Classe isolamento bobina / *Coil insulation class: F*
Tipo Faston / *Faston type: 6,3 x 0,8 mm*

GRAFICO PORTATE / *FLOW RATES CHART*



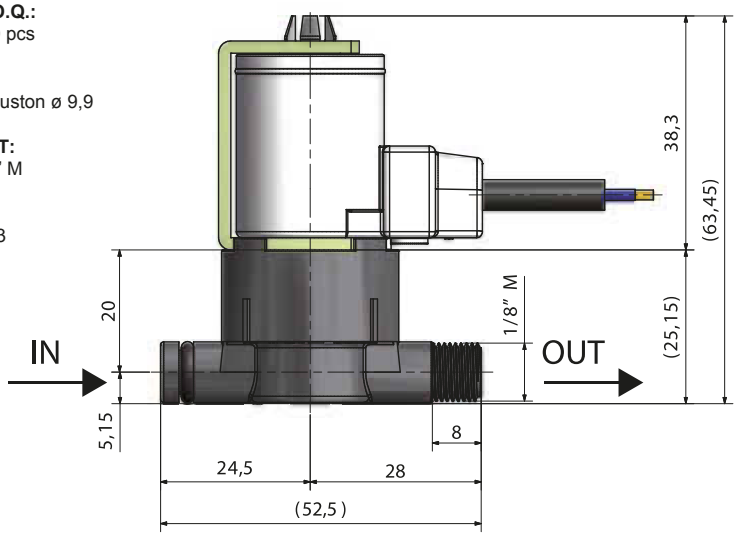
SERIE 900 / *900 SERIES*

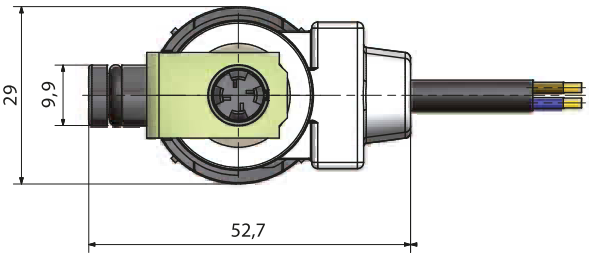
M.O.Q.:
200 pcs

IN:
M custon ø 9,9

OUT:
1/8" M

A:
38,3





Applicazioni / *Applications*

Bevande e filtrazione
Beverage & filtering

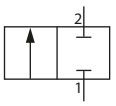
SPECIFICHE TECNICHE

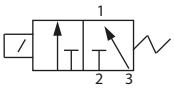
- Corpo valvola: POM
- Membrana: LSR
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: A scatto
- Pressione di esercizio: 0-0,5 bar
- Temp. ambiente: TU 60°C
- Temp. fluido: Tm 25°C - ED 100%

TECHNICAL SPECIFICATIONS

- *Valve body: POM*
- *Diaphragm: LSR*
- *Core: Stainless steel*
- *Coils: Stainless steel*
- *Assembly: Locking snap*
- *Working pressure: 0-0,5 bar*
- *Room temperature: TU 60°C*
- *Fluid temperature: Tm 25°C - ED 100%*

ICONE / *ICONS*





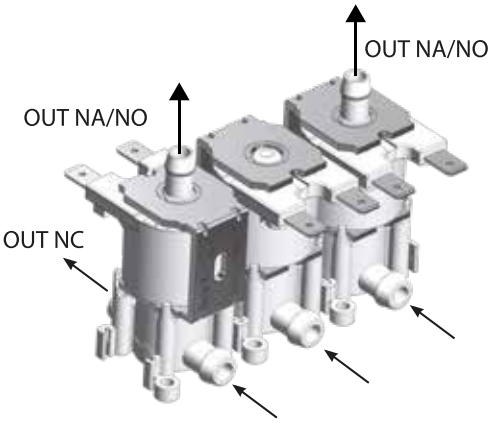
PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola estremamente compatta / *Extremely compact valve*
- Materiali certificati per contatto con alimenti / *Materials certified for contact with food*
- Valvola ad azionamento diretto / *Direct acting valve*
- Valvola modulare assemblabile in batteria/ *Modular valve assembled in battery*
- Disponibile nella versione 3/2 vie / *Available in 3/2 way version*

CERTIFICAZIONI / *CERTIFICATION*

* Materials certified by contact with food

SERIE T ASSEMBLATA / *T SERIES ASSEMBLED*



CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 - 0,5 bar	Working pressure	0 - 0,5 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 25° C - ED 100%	Fluid temperature	Tm 25° C - ED 100%
Diametro nominale	DN 4 mm (NC); DN 2 mm (NA)	Orifice	DN 4 mm (NC); DN 2 mm (NA)
Comando	2/2; 3/2; NC azionamento diretto	Control	2/2; 3/2; NC direct acting
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm

GAMMA SOLENOIDI		*SOLENOIDS RANGE*	
Tensione	24 V DC	Voltage	24 V DC
Potenza	6,3 W	Power	6,3 W
Assorbimento	265 mA	Consuption	265 mA
ED	100%	ED	100%

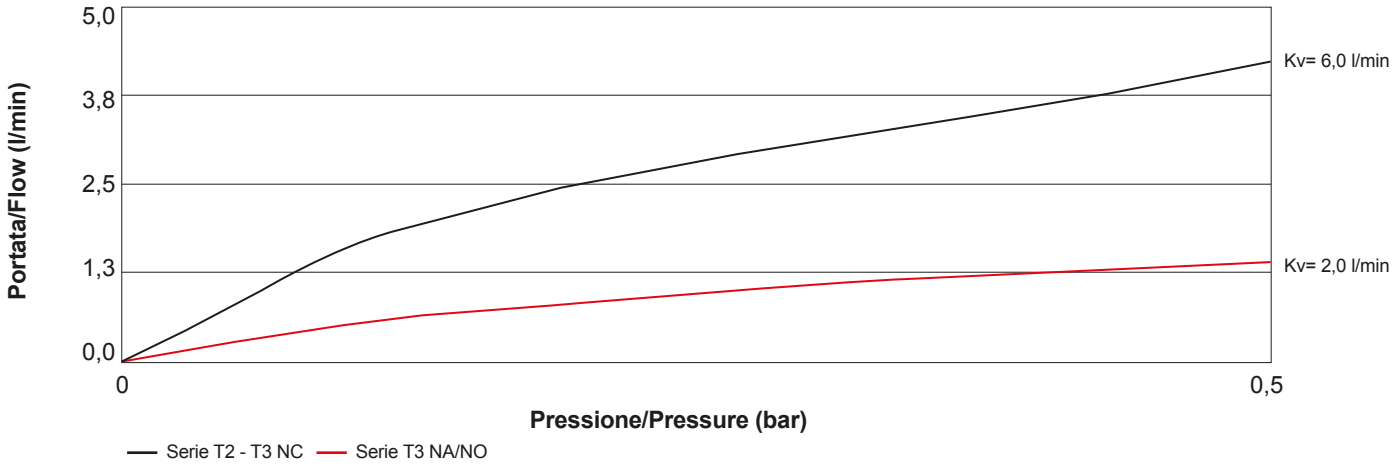
Modello Model	Geometria Geometry	IN	OUT NC	OUT NA/NO	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure
T2	2 vie; 2 ways	PG 8 mm	PG 8 mm		320	4 mm	0 - 0,5 bar
T3	3 vie; 3 ways	PG 8 mm	PG 8 mm	PG 7 mm	320	4 mm	0 - 0,5 bar

Legenda / Key: PG = Portagomma / Hose tail

Codice progressivo Progressive code	Tensione Voltage	Potenza Power	Assorbimento Consumption	ED
1	24V DC	6,3 W	265 mA	100%

Legenda / Key: PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE T / *FLOW RATES CHART T SERIES*



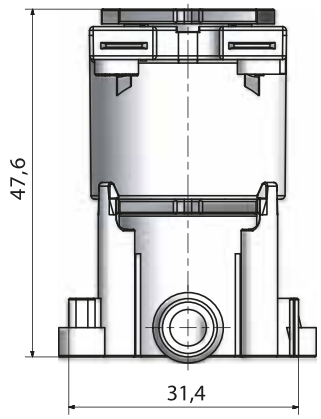
T2

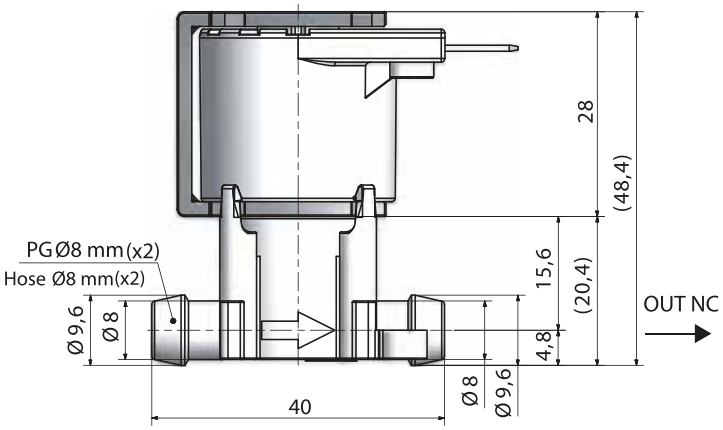
M.O.Q.:
320 pcs

IN:
PG 8 mm

OUT:
PG 8 mm

A:28





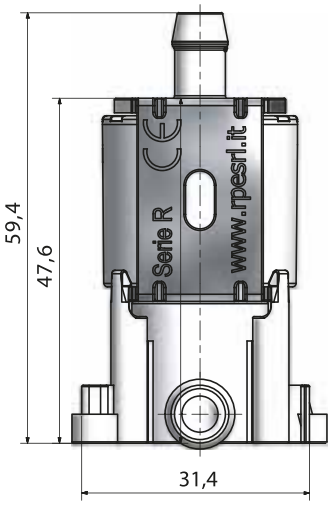
T3

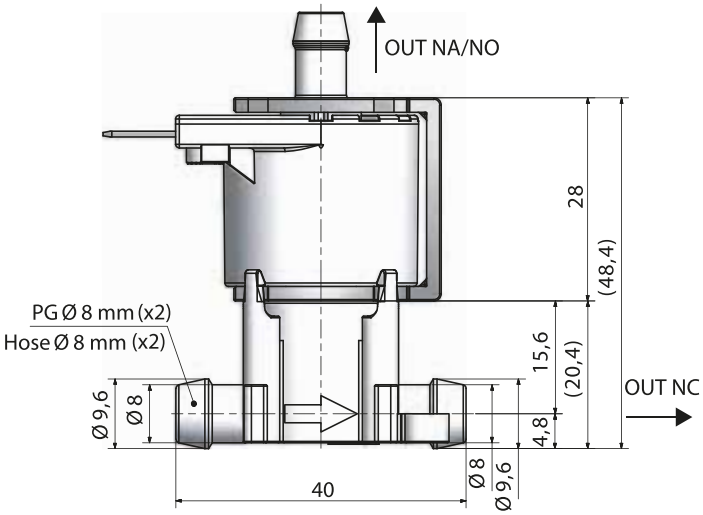
M.O.Q.:
320 pcs

IN:
PG 8 mm

OUT:
PG 8 mm

A:28



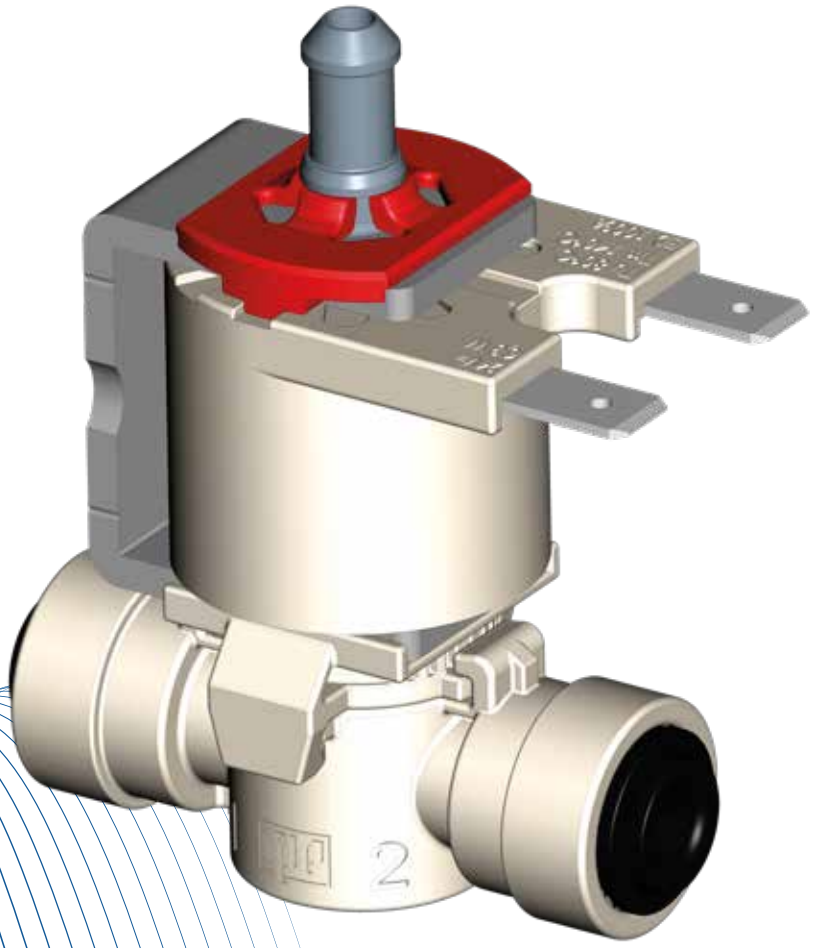


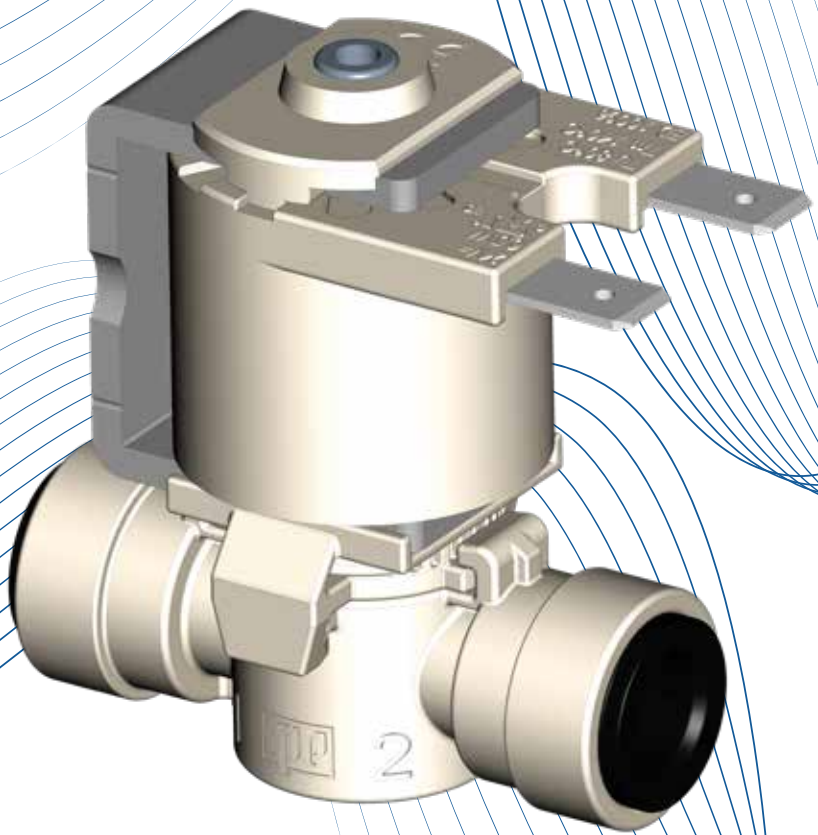
Serie TD
TD Series

Applicazioni / *Applications*

Bevande e filtrazione
Beverage & filtering

Medicale e riuniti dentali
Medical & dental units





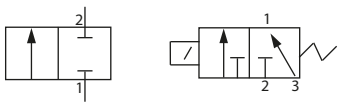
SPECIFICHE TECNICHE

- Corpo valvola: PA66 30%FV
- Membrana: EPDM - LSR
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-16 bar (0-6 bar per ø3.9)
- Temp. ambiente: 0-75°C (0-60° per ø3.9)
- Temp. fluido: 0-16 bar (0-60° per ø3.9)

TECHNICAL SPECIFICATIONS

- *Valve body: PA66 30%GF*
- *Diaphragm: EPDM - LSR*
- *Core: Stainless steel*
- *Coils: Stainless steel*
- *Assembly: Bayonet*
- *Working pressure: 0-16 bar (0-6 bar per ø3.9)*
- *Room temperature: 0-75°C (0-60° per ø3.9)*
- *Fluid temperature: 0-16 bar (0-60° per ø3.9)*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola compatta / *Compact valve*
- Ad azionamento diretto / *Direct acting valve*
- Disponibile nella versione 3/2 vie / *Available in 3/2 way version*
- Disponibile con 2 o 3 ingressi / *Available with 2 or 3 inlet*
- Ideale per applicazioni in water dispenser / *Ideal for water dispenser applications*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

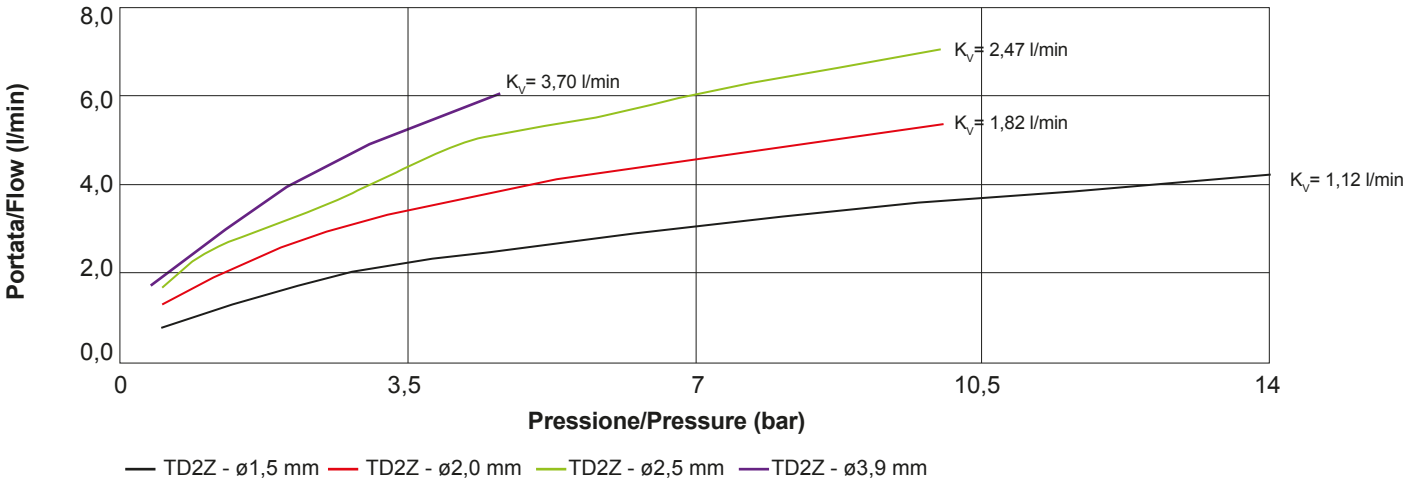
Serie TD 2/2 Singola
TD Series 2/2 Single

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 ÷ 16 bar (0 - 6 bar per Ø3.9)	Working pressure	0 ÷ 16 bar (0 - 6 bar per Ø3.9)
Temp. ambiente	0 ÷ 75°C (0 - 60° per Ø3.9)	Room temperature	0 ÷ 75°C (0 - 60° per Ø3.9)
Temperatura fluido	0 ÷ 75°C (0 - 60° per Ø3.9)	Fluid temperature	0 ÷ 75°C (0 - 60° per Ø3.9)
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Diametro di passaggio	Ø1.5 - Ø2.0 - Ø2.5 - Ø3.9 mm	Nominal diameter	Ø1.5 - Ø2.0 - Ø2.5 - Ø3.9 mm
Comando	NC azionamento diretto	Control	NC Direct acting

CONNESSIONI IDRAULICHE		*HYDRAULIC CONNECTIONS*	
Ingresso	Attacco rapido Ø6 mm	Inlet	PF Ø6 mm
	Attacco rapido Ø8 mm		PF Ø 8 mm
	Filetto 1/4” NPT		1/4” NPT thread
Uscita	Attacco rapido Ø6 mm	Outlet	PF Ø 6 mm
	Attacco rapido Ø8 mm		PF Ø 8 mm

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3x0,8 mm	Faston 6,3x0,8 mm

GRAFICO PORTATE SERIE TD 2/2 / *FLOW RATES CHART TD 2/2 SERIES*



Modello Model	IN	OUT	Diametro nominale
TD2S	PF Ø 6 mm	PF Ø 6 mm	Ø1,5 - Ø2,0 - Ø2,5 mm
TD2S	PF Ø 8 mm	PF Ø 8 mm	Ø1,5 - Ø2,0 - Ø2,5 mm
TD2Z	PF 1/4”	PF 1/4”	Ø1,5 - Ø2,0 - Ø2,5 - Ø3,9 mm
TD2Z	PF 1/4”	1/4” NPT	Ø1,5 - Ø2,0 - Ø2,5 - Ø3,9 mm
TD2Z	1/4” NPT	PF 1/4”	Ø1,5 - Ø2,0 - Ø2,5 - Ø3,9 mm
TD2Z	1/4” NPT	1/4” NPT	Ø1,5 - Ø2,0 - Ø2,5 - Ø3,9 mm

Codice Progressivo Progress code	Tensione Voltage V	Frequenza Frequency (Hz)	Potenza di mantenimento Holding power (W) - (VA)	Potenza di spunto InRush power (W) - (VA)	Corrente di mantenimento Holding current (mA) (@20°C)	Corrente di spunto InRush current (@20°C)	ED Duty cycle Ø	Classe di isolamento Insulation class	Classe isolamento bobina Coil Insulation class	Connessioni Connections	Approvazioni Approvals
1	12V DC *(S208)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
2	24V DC *(S216)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
3	24V AC *(S215)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
4	110V AC 120V AC *(S213)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
5	230V AC *(S214)*	50/60 Hz	7,9 W	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
6	12V DC *(S196)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
7	24V DC *(S204)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
8	24V AC *(S202)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
9	110V AC 120V AC *(S2198)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
10	230V AC *(S200)*	50/60 Hz	7,9 VA	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
11*	240V AC *(S179)*	50 Hz	14,3 VA	27,6 VA	65 mA	115 mA	100%	II	F	Faston 6,3x0,8 mm	GW,UL

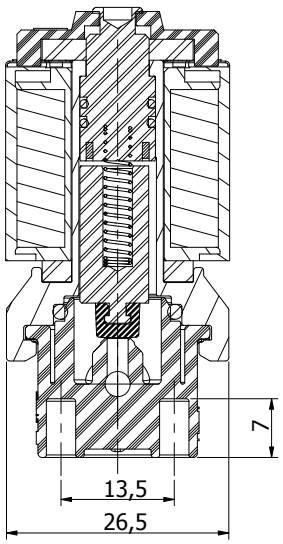
*Solo per TD2Z / Only for TD2Z

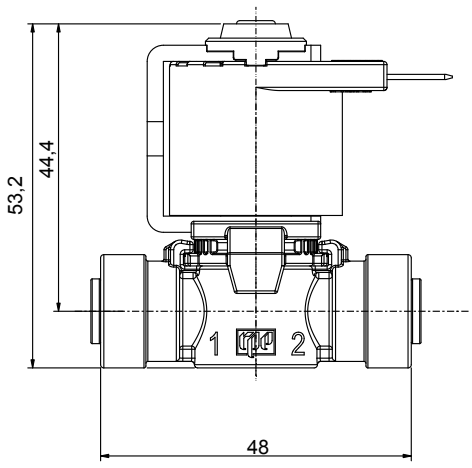
TD2S PF 6 / *TD2S PF 6*

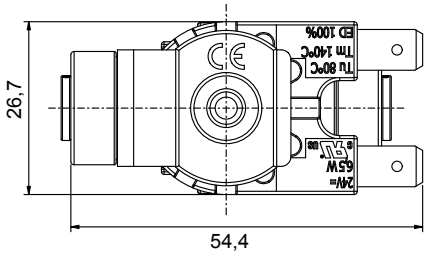
M.O.Q.:
144 pcs

IN:
PF 6

OUT
PF 6







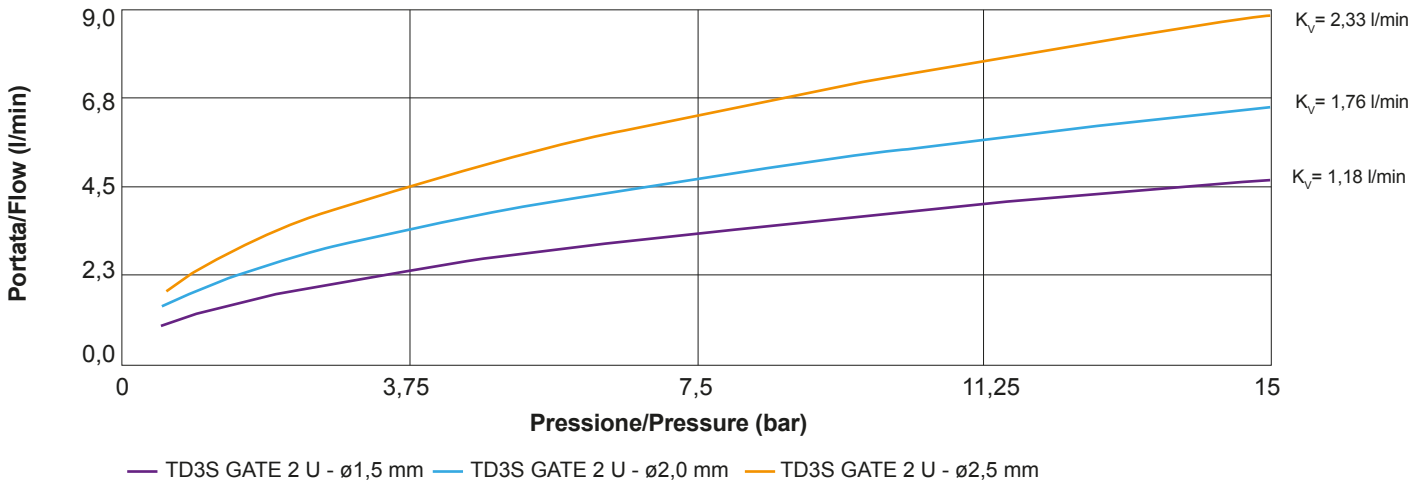
Serie TD 3/2 Singola
TD Series 3/2 Single

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Temp. ambiente	0 ÷ 75°C	Room temperature	0 ÷ 75°C
Temperatura fluido	0 ÷ 75°C	Fluid temperature	0 ÷ 75°C
Direzione fluido	Vedi schema di funzionamento	Flow direction	See working scheme
Dm. di passaggio GATE 2	Ø1.5 / Ø2.0 / Ø2.5	N. diameter GATE 2	Ø1.5 / Ø2.0 / Ø2.5
Dm. di passaggio GATE 3	Ø0.8 / Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0	N. diameter GATE 3	Ø0.8 / Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0
Comando	Apertura diretta	Control	Direct opening

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3x0,8 mm	Faston 6,3x0,8 mm

GAMMA SOLENOIDI		*SOLENOIDS RANGE*	
Ingresso	Connessione rapida Ø6 mm	Inlet	Quick Coupling Ø6 mm
	Connessione rapida Ø8 mm		Quick Coupling Ø8 mm
Uscita	Connessione rapida Ø6 mm	Outlet	Quick Coupling Ø6 mm
	Connessione rapida Ø8 mm		Quick Coupling Ø8 mm
Uscita Terza Via (GATE 3)	Portagomma	Upper Outlet (GATE 3)	Hose Tail
	Codolo		Spigot

GRAFICO PORTATE SERIE TD 3/2 / *FLOW RATES CHART TD 3/2 SERIES*



Modello Model	IN	OUT	Diametro Gate 2 Diameter Gate 2	Diametro Gate 3 Diameter Gate 3
TD3S	PF Ø6 mm	PF Ø6 mm	Ø1.5 / Ø2.0 / Ø2.5 mm	Ø0.8 / Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0 mm
TD3S	PF Ø8 mm	PF Ø8 mm	Ø1.5 / Ø2.0 / Ø2.5 mm	Ø0.8 / Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0 mm

Codice Progressivo Progress code	Tensione Voltage V	Frequenza Frequency (Hz)	Potenza di mantenimento Holding power (W) - (VA)	Potenza di spunto InRush power (W) - (VA)	Corrente di mantenimento Holding current (mA) (@20°C)	Corrente di spunto InRush current (@20°C)	ED Duty cycle Ø	Classe di isolamento Insulation class	Classe isolamento bobina Coil Insulation class	Connessioni Connections	Approvazioni Approvals
1	12V DC *(S208)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
2	24V DC *(S216)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
3	24V AC *(S215)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
4	110V AC 120V AC *(S213)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
5	230V AC *(S214)*	50/60 Hz	7,9 W	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
6	12V DC *(S196)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
7	24V DC *(S204)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
8	24V AC *(S202)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
9	110V AC 120V AC *(S2198)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
10	230V AC *(S200)*	50/60 Hz	7,9 VA	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
11*	240V AC *(S179)*	50 Hz	14,3 VA	27,6 VA	65 mA	115 mA	100%	II	F	Faston 6,3x0,8 mm	GW,UL

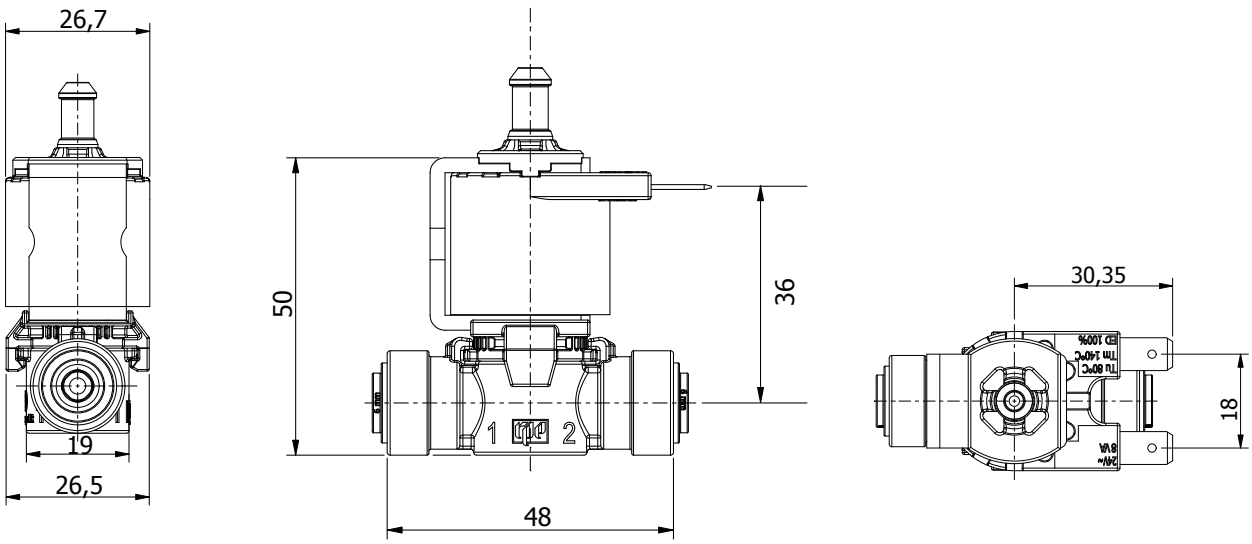
*Solo per TD2Z / Only for TD2Z

TD3S PF 6 / *TD3S PF 6*

M.O.Q.:
144 pcs

IN:
PF 6

OUT
PF 6



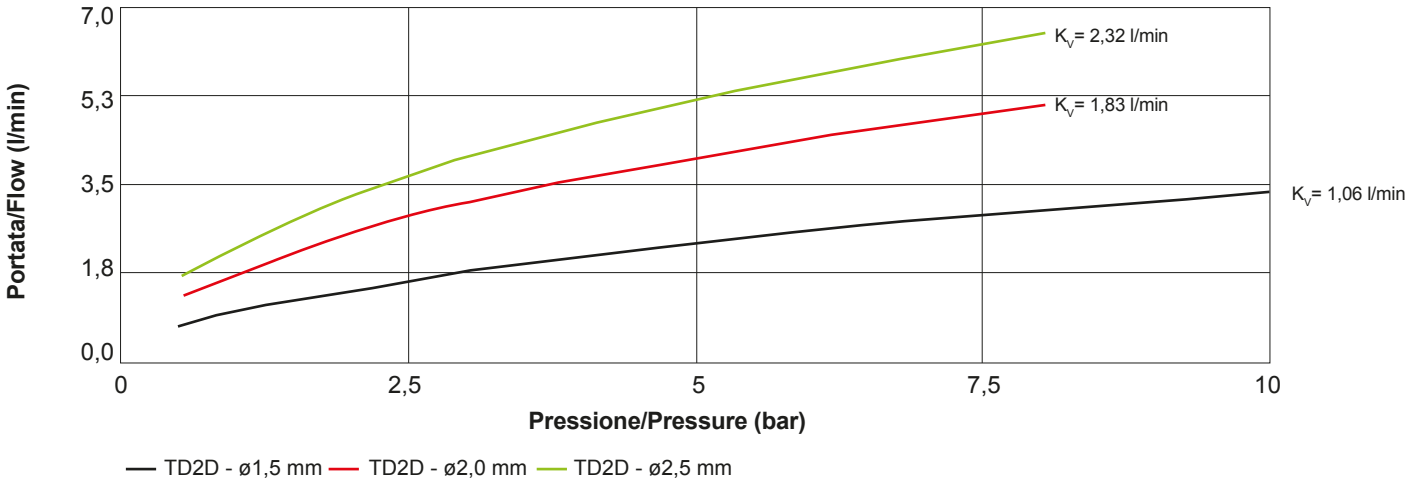
Serie TD 2/2 Doppia
TD Series 2/2 Double

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0-10 bar - 0-10 bar - 0-9 bar	Working pressure	0-10 bar - 0-10 bar - 0-9 bar
Temp. ambiente	0 ÷ 75°C	Room temperature	0 ÷ 75°C
Temperatura fluido	0 ÷ 75°C	Fluid temperature	0 ÷ 75°C
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Dm. di passaggio GATE 2	Ø1.5 / Ø2.0 / Ø2.5	N. diameter GATE 2	Ø1.5 / Ø2.0 / Ø2.5
Dm. di passaggio GATE 3	Ø0.8 / Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0	N. diameter GATE 3	Ø0.8 / Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0
Comando	NC Apertura diretta	Control	NC direct opening

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3x0,8 mm	Faston 6,3x0,8 mm

GAMMA SOLENOIDI		*SOLENOIDS RANGE*	
Ingresso	Ø6 mm - Ø8 mm - Ø1/4" mm	Inlet	Ø6 mm - Ø8 mm - Ø1/4" mm
Uscita	Ø6 mm - Ø8 mm - Ø1/4" mm	Outlet	Ø6 mm - Ø8 mm - Ø1/4" mm

GRAFICO PORTATE SERIE TD 2/2 / *FLOW RATES CHART TD 2/2 SERIES*



Modello Model	IN	OUT	Diametro Diameter
TD2D doppia TD2D double	PF Ø6 mm	PF Ø6 mm	Ø1.5 / Ø2.0 / Ø2.5 mm
TD2D doppia TD2D double	PF Ø8 mm	PF Ø8 mm	Ø1.5 / Ø2.0 / Ø2.5 mm
TD2D doppia TD2D double	PF Ø1/4“	PF Ø1/4”	Ø1.5 / Ø2.0 / Ø2.5 mm

Codice Progressivo Progress code	Tensione Voltage V	Frequenza Frequency (Hz)	Potenza di mantenimento Holding power (W) - (VA)	Potenza di spunto InRush power (W) - (VA)	Corrente di mantenimento Holding current (mA) (@20°C)	Corrente di spunto InRush current (@20°C)	ED Duty cycle Ø	Classe di isolamento Insulation class	Classe isolamento bobina Coil Insulation class	Connessioni Connections	Approvazioni Approvals
1	12V DC *(S208)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
2	24V DC *(S216)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
3	24V AC *(S215)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
4	110V AC 120V AC *(S213)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
5	230V AC *(S214)*	50/60 Hz	7,9 W	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
6	12V DC *(S196)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
7	24V DC *(S204)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
8	24V AC *(S202)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
9	110V AC 120V AC *(S2198)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
10	230V AC *(S200)*	50/60 Hz	7,9 VA	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
11*	240V AC *(S179)*	50 Hz	14,3 VA	27,6 VA	65 mA	115 mA	100%	II	F	Faston 6,3x0,8 mm	GW,UL

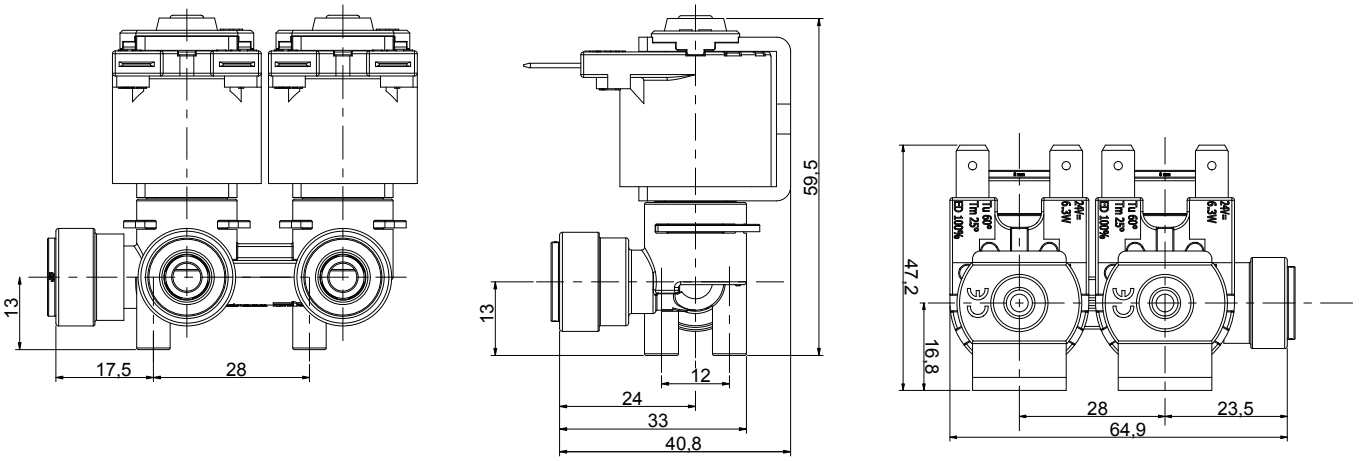
*Solo per TD2Z / Only for TD2Z

TD2D PF 8 / *TD2D PF 8*

M.O.Q.:
144 pcs

IN:
PF 8

OUT
PF 8



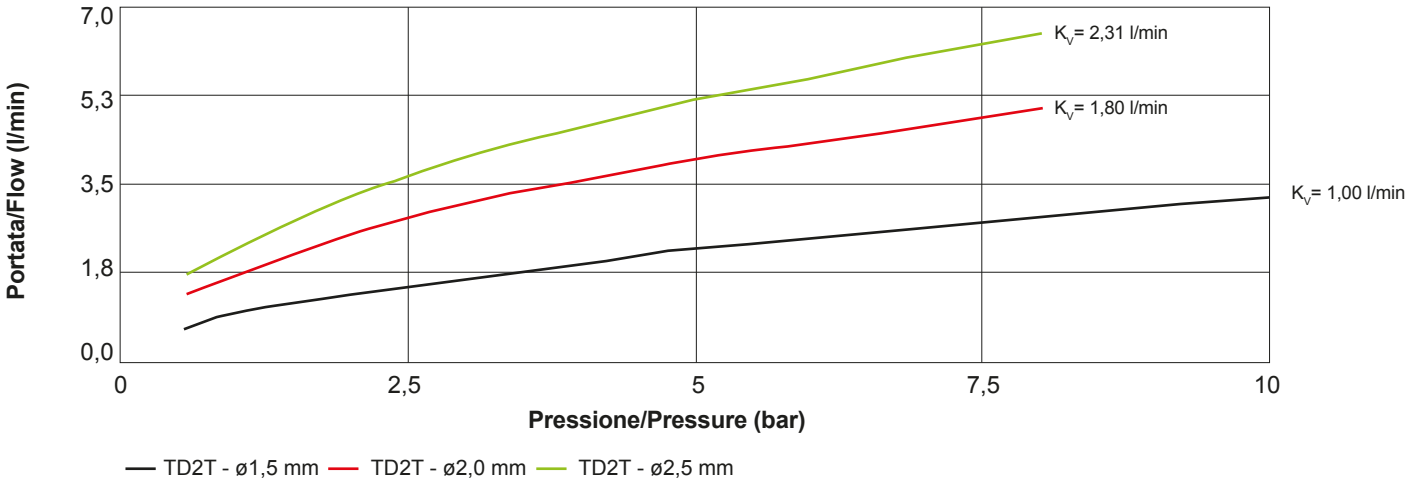
Serie TD 2/2 - Tripla
TD Series 2/2 - Triple

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0-10 bar - 0-10 bar - 0-9 bar	Working pressure	0-10 bar - 0-10 bar - 0-9 bar
Temp. ambiente	0 ÷ 75°C	Room temperature	0 ÷ 75°C
Temperatura fluido	0 ÷ 75°C	Fluid temperature	0 ÷ 75°C
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Dm. di passaggio	Ø1.5 / Ø2.0 / Ø2.5	N. diameter	Ø1.5 / Ø2.0 / Ø2.5
Comando	NC apertura diretta	Control	NC direct opening

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston	Faston

GAMMA SOLENOIDI		*SOLENOIDS RANGE*	
Ingresso	Ø6 mm - Ø8 mm - Ø1/4" mm	Inlet	Ø6 mm - Ø8 mm - Ø1/4" mm
Uscita	Ø6 mm - Ø8 mm - Ø1/4" mm	Outlet	Ø6 mm - Ø8 mm - Ø1/4" mm

GRAFICO PORTATE SERIE TD TRIPLA / *FLOW RATES CHART TD TRIPLE*



Modello Model	IN	OUT	Diametro Diameter
TD2T tripla TD2T triple	PF Ø6 mm	PF Ø6 mm	Ø1.5 / Ø2.0 / Ø2.5 mm
TD2T tripla TD2T triple	PF Ø8 mm	PF Ø8 mm	Ø1.5 / Ø2.0 / Ø2.5 mm
TD2T tripla TD2T triple	PF Ø1/4"	PF Ø1/4"	Ø1.5 / Ø2.0 / Ø2.5 mm

Codice Progressivo Progress code	Tensione Voltage V	Frequenza Frequency (Hz)	Potenza di mantenimento Holding power (W) - (VA)	Potenza di spunto InRush power (W) - (VA)	Corrente di mantenimento Holding current (mA) (@20°C)	Corrente di spunto InRush current (@20°C)	ED Duty cycle Ø	Classe di isolamento Insulation class	Classe isolamento bobina Coil Insulation class	Connessioni Connections	Approvazioni Approvals
1	12V DC *(S208)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
2	24V DC *(S216)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
3	24V AC *(S215)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
4	110V AC 120V AC *(S213)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
5	230V AC *(S214)*	50/60 Hz	7,9 W	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,ENEC
6	12V DC *(S196)*	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
7	24V DC *(S204)*	=	6,5 W	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
8	24V AC *(S202)*	50/60 Hz	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
9	110V AC 120V AC *(S2198)*	50 Hz 60 Hz	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
10	230V AC *(S200)*	50/60 Hz	7,9 VA	/	34 mA	/	100%	II	F	Faston 6,3x0,8 mm	GW,UL
11*	240V AC *(S179)*	50 Hz	14,3 VA	27,6 VA	65 mA	115 mA	100%	II	F	Faston 6,3x0,8 mm	GW,UL

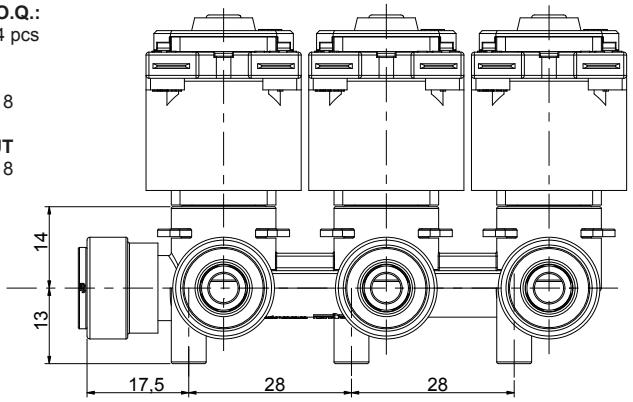
*Solo per TD2Z / Only for TD2Z

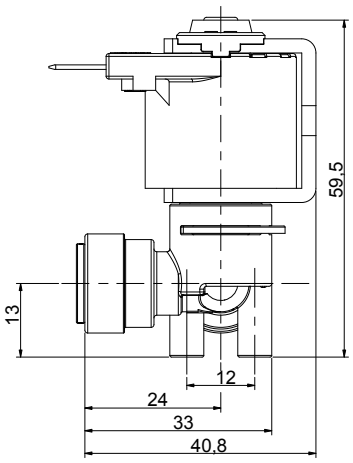
TD2T PF 8 / *TD2T PF 8*

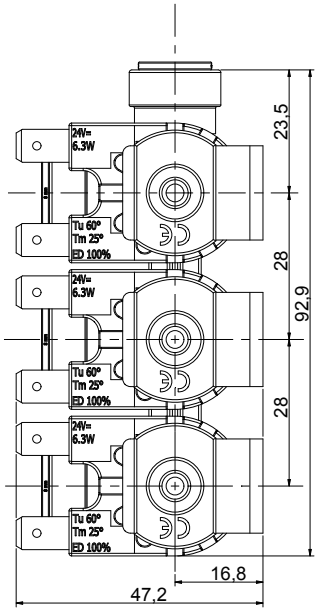
M.O.Q.:
144 pcs

IN:
PF 8

OUT
PF 8







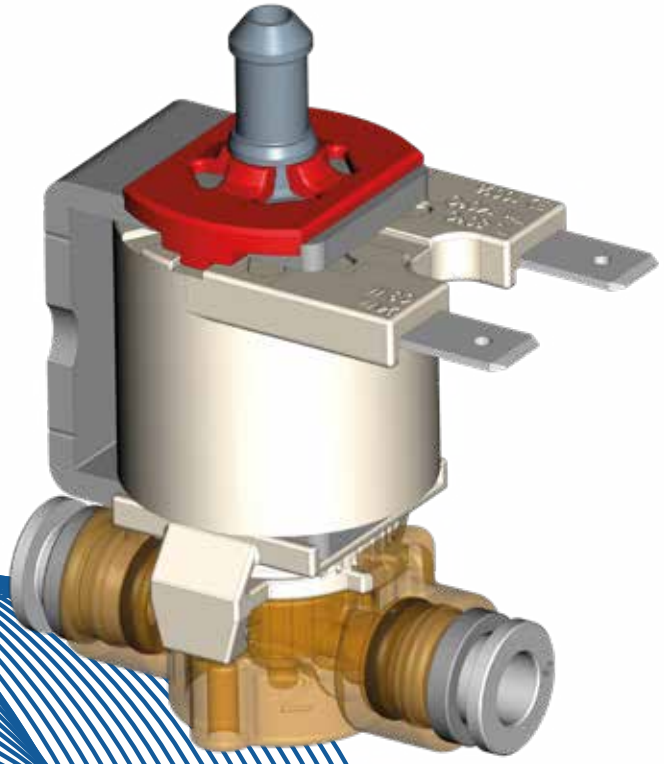
Serie TV2 - TV3
TV2 - TV3 Series

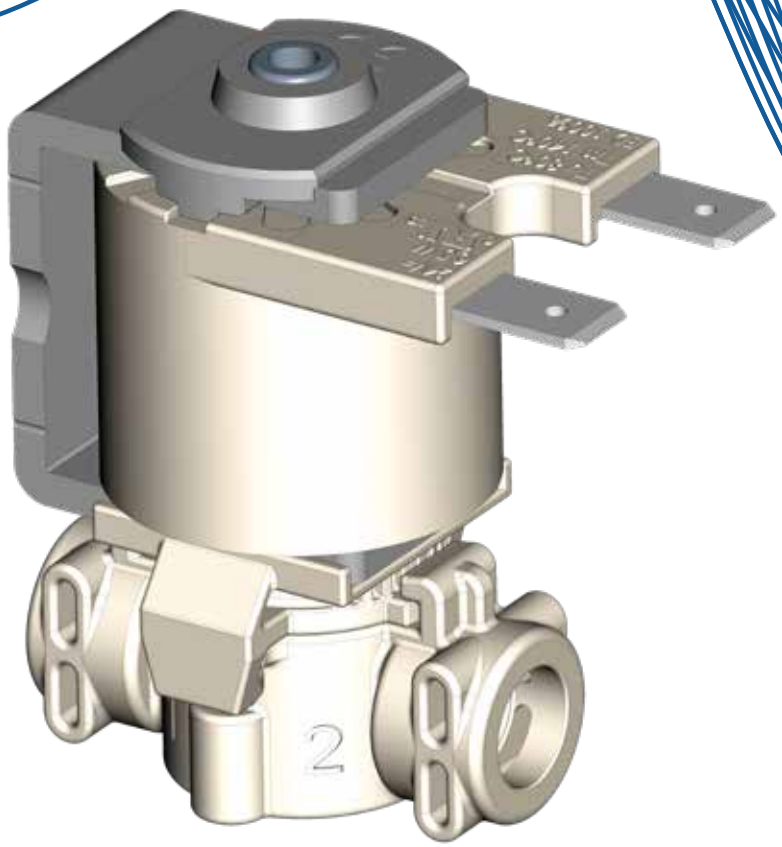
Applicazioni / *Applications*

Bevande e filtrazione
Beverage & filtering

Vapore e caffè
Coffee & Steam

Medicale e riuniti dentali
Medical & dental units





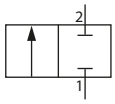
SPECIFICHE TECNICHE

- Corpo valvola: PPS / PPSU
- Membrana: FPM/FKM
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: Aggancio rapido
- Pressione di esercizio: 0-15 bar Max 18 bar
- Temp. ambiente: 0-60°C
- Temp. fluido: 0-140°C

TECHNICAL SPECIFICATIONS

- *Valve body: PPS* / PPSU
- *Diaphragm: FPM/FKM*
- *Core: Stainless steel*
- *Spring: Stainless steel*
- *Assembly: Fast connection*
- *Working pressure: 0-15 bar Max 18 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-140°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola compatta e ispezionabile / *Compact valve and inspectable*
- Ampia gamma di personalizzazioni (connessioni, voltaggi)
  Wide range of customisation (connections, voltages)
- Realizzata in tecnopolimero resistente alle alte temperature
  Made of high temperature resistant technopolymer
- Certificata per contatto con alimenti / *Food contact certified*
- Disponibile nella versione 3 vie / *Available in 3 way version*

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie TV2 - TV3
TV2 - TV3 Series

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0 ÷ 15 bar max 18 bar	Working pressure	0 ÷ 15 bar max 18 bar
Temp. ambiente	0 ÷ 60°C	Room temperature	0 ÷ 60°C
Temperatura fluido	0 ÷ 140°C	Fluid temperature	0 ÷ 140°C
Direzione fluido	Unidirezionale	Flow direction	Unidirectional
Dm. di passaggio	Ø1.5 / Ø2.0 / Ø2.5	N. diameter	Ø1.5 / Ø2.0 / Ø2.5
Comando	2/2; 3/2; NC apertura diretta	Control	2/2; 3/2; NC direct opening

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3x0,8 mm	Faston 6,3x0,8 mm

GAMMA SOLENOIDI	*SOLENOIDS RANGE*
24 V DC	24 V DC
230V AC	230V AC

Modello Model	Geometria Geometry	IN	OUT	OUT NA/NO	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure
TV2	2 vie/ 2 ways	PF 4 mm	PF 4 mm		320	1,5 - 2,0 - 2,5 mm	0 - 15 bar
TV2	2 vie/ 2 ways	PF 6 mm	PF 6 mm		320	1,5 - 2,0 - 2,5 mm	0 - 15 bar
TV2	2 vie/ 2 ways	Fork	Fork		320	1,5 - 2,0 - 2,5 mm	0 - 15 bar
TV3	3 vie/ 3 ways	PF 4 mm	PF 4 mm	PG7	320	1,5 mm	0 - 15 bar
TV3	3 vie/ 3 ways	PF 6 mm	PF 6 mm	PG7	320	1,5 mm	0 - 15 bar
TV3	3 vie/ 3 ways	Fork	Fork	PG7	320	1,5 mm	0 - 15 bar

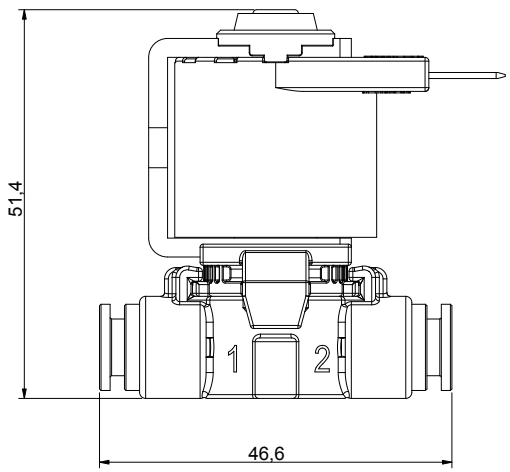
Legenda / Key: PG = Portagomma / Hose tail

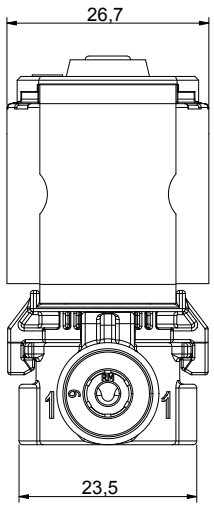
TV2 Ø 6 mm

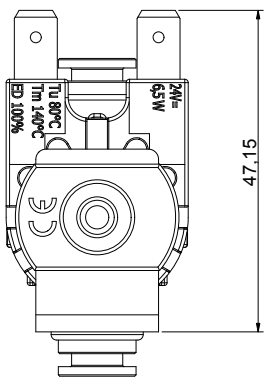
M.O.Q.:
320 pcs

IN:
PF 6 mm

OUT:
PF 6 mm







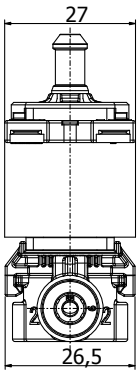
Misure in millimetri - Dimensions in millimeters

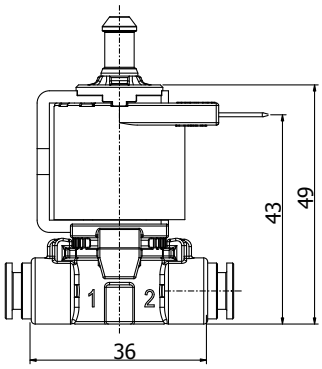
TV3 Ø 6 mm

M.O.Q.:
320 pcs

IN:
PF 6 mm

OUT:
PF 6 mm



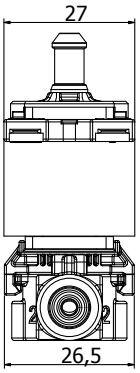


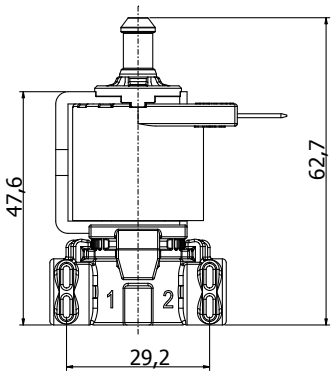
TV3 FORK

M.O.Q.:
320 pcs

IN:
Forchetta/Fork ø 4mm

OUT:
Forchetta/*Fork* ø 4mm





Codice Progressivo Progress code	Tensione Voltage V	Frequenza Frequency (Hz)	Potenza di mantenimento Holding power (W) - (VA)	Potenza di spunto InRush power (W) - (VA)	Corrente di mantenimento Holding current (mA) (@20°C)	Potenza di mantenimento InRush current (@20°C)	ED Duty cycle Ø	Classe di isolamento Insulation class	Classe isolamento bobina Coil Insulation class	Connessioni Connections	Approvazioni Approvals
1	12V DC (s197)	=	6,2 W	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
2	24V DC (s205)	=	6,5 VA	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
3	24V DC (s203)	50/60 HZ	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
4	110V DC 120V DC (s199)	50 HZ 60 HZ	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
5	230V AC (s201)	50/60 HZ	7,9 VA	/	34mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
6	12V DC (s196)	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
7	24V DC (s204)	=	6,5 VA	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
8	24V AC (s202)	50/60 HZ	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
9	110V AC 120V AC (s198)	50 HZ 60 HZ	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
10	230V AC (s200)	50/60 HZ	7,9 VA	/	34mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL

① Materiali conformi al test GW secondo le normative EN 60335-1 e IEC 60695-2-11
Material conforming to the GW test according to the EN 60335-1 and IEC 60695-2-11 standars

② Materiali conformi agli standard UL
Material conforming to UL standards

③ Certificata ENEC secondo la normativa EN 60730-2-8 e la 60335-1
Certified according to the EN 60730-2-8 and 60335-1 standards

Misure in millimetri - Dimensions in millimeters

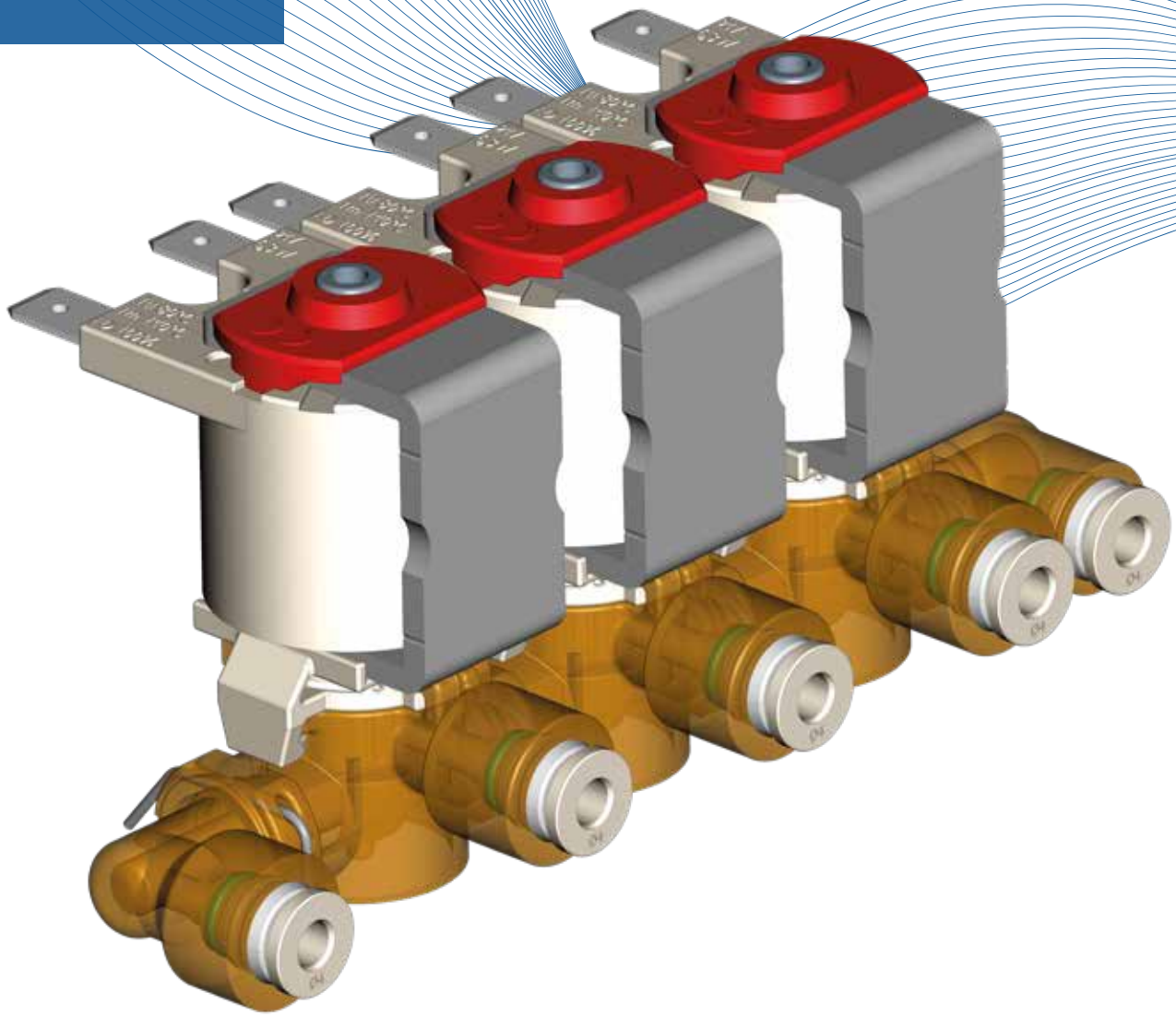
Serie TU
TU Series

Applicazioni / *Applications*

Elettrodomestico
Household appliances

Vapore e caffè
Coffee & Steam

Medicale e riuniti dentali
Medical & dental units



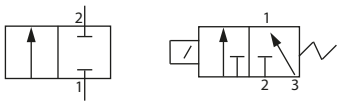
SPECIFICHE TECNICHE

- Corpo valvola: PPS
- Guarnizioni: EPDM - FKM
- O-ring tenuta: EPDM
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-19 bar
- Temp. ambiente: 0-80°C
- Temp. fluido: 0-140°C

TECHNICAL SPECIFICATIONS

- *Valve body: PPS*
- *Gasket: EPDM - FKM*
- *O-ring sealing: EPDM*
- *Core: Stainless steel*
- *Spring: Stainless steel*
- *Assembly: Bayonet*
- *Working pressure: 0-19 bar*
- *Room temperature: 0-80°C*
- *Fluid temperature: 0-140°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola estremamente compatta / *Extremely compact valve*
- Realizzata in tecnopolimero resistente alle alte temperature / *Made of high temperature resistant technopolymer*
- Personalizzabile a piacimento / *Customizable at will*
- Gestione di ingressi e uscite in diverse configurazioni / *Management of inlet and outlet in different configurations*
- Ampia gamma di voltaggi / *Wide range of voltages*

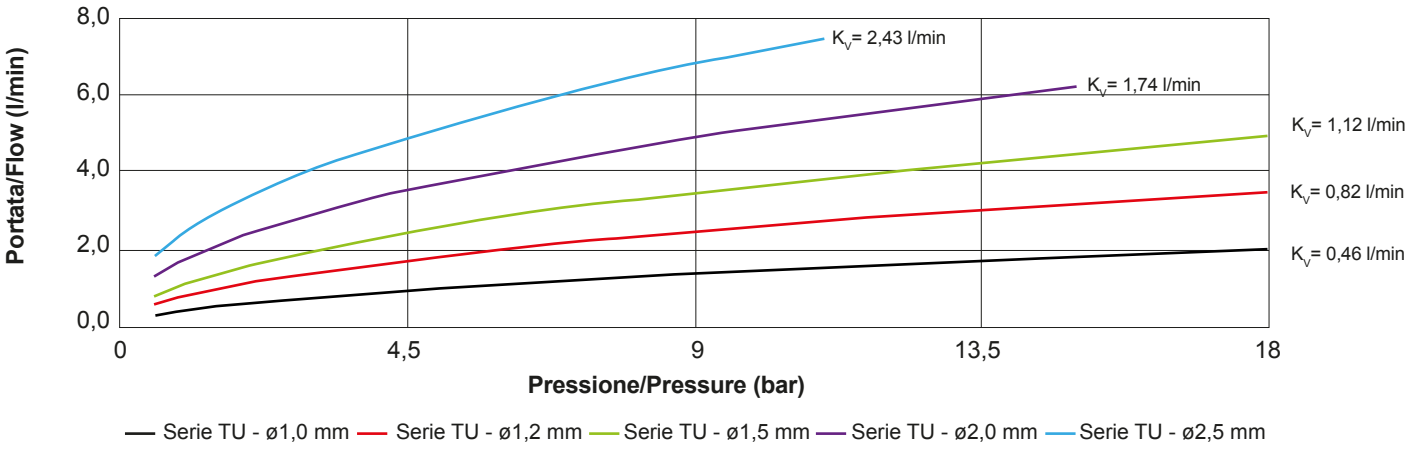
CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0-19 bar	Working pressure	0-19 bar
Temp. ambiente	0 ÷ 80°C	Room temperature	0 ÷ 80°C
Temperatura fluido	0 ÷ 140°C	Fluid temperature	0 ÷ 140°C
Dm. di passaggio	Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0 / Ø2.5	N. diameter	Ø1.0 / Ø1.2 / Ø1.5 / Ø2.0 / Ø2.5
Comando	2/2; 3/2; NC apertura diretta	Control	2/2; 3/2; NC direct opening

GAMMA SOLENOIDI		*SOLENOIDS RANGE*	
Ingresso	Connessione rapida Ø 4-6 mm	Inlet	Fast connection Ø 4-6 mm
Uscita	Connessione rapida Ø 4-6 mm	Outlet	Fast connection Ø 4-6 mm

GRAFICO PORTATE SERIE TU / *FLOW RATES CHART TU SERIES*

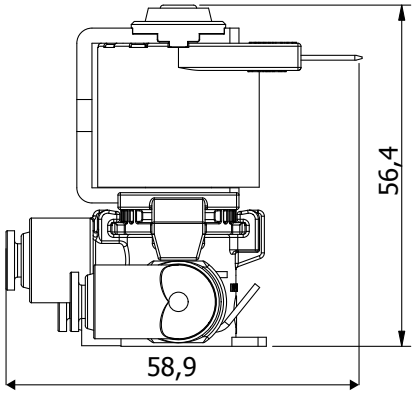


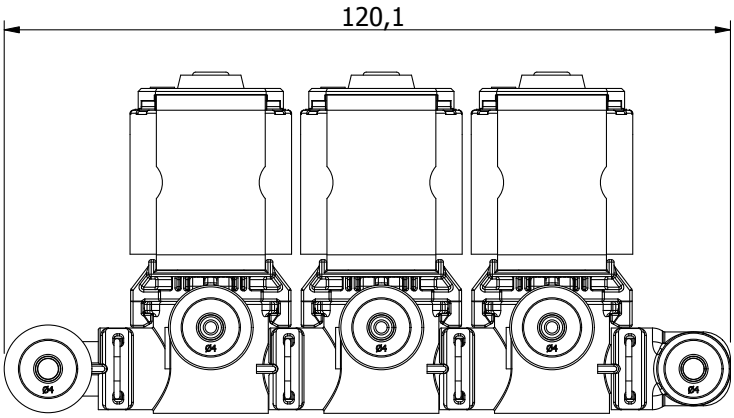
TU

M.O.Q.:
108 pcs

IN:
PF 4/6 mm

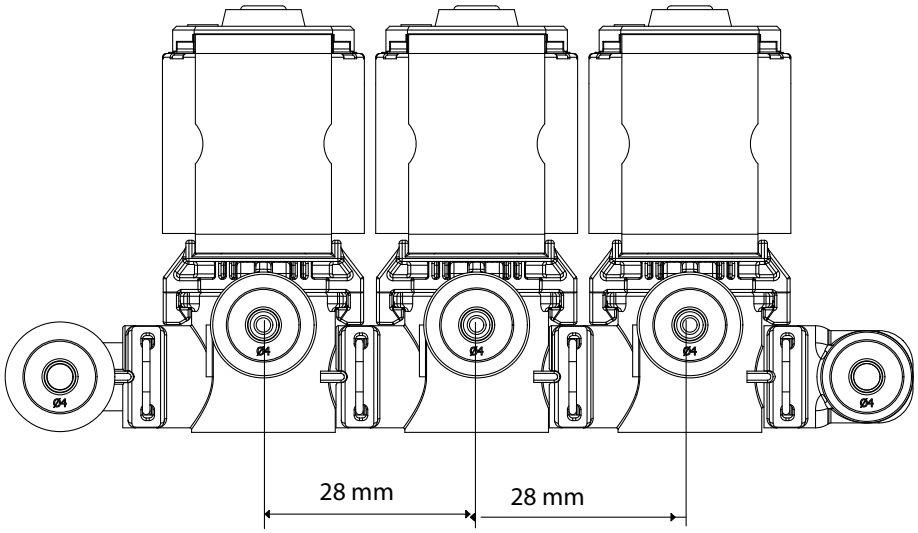
OUT:
PF 4/6 mm





Misure in millimetri - Dimensions in millimeters

SERIE TU ASSEMBLATA / *TU SERIES ASSEMBLED*



Codice Progressivo Progress code	Tensione Voltage V	Frequenza Frequency (Hz)	Potenza di mantenimento Holding power (W) - (VA)	Potenza di spunto InRush power (W) - (VA)	Corrente di mantenimento Holding current (mA) (@20°C)	Potenza di mantenimento InRush current (@20°C)	ED Duty cycle Ø	Classe di isolamento Insulation class	Classe isolamento bobina Coil Insulation class	Connessioni Connections	Approvazioni Approvals
1	12V DC (s197)	=	6,2 W	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
2	24V DC (s205)	=	6,5 VA	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
3	24V DC (s203)	50/60 HZ	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
4	110V DC 120V DC (s199)	50 HZ 60 HZ	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
5	230V AC (s201)	50/60 HZ	7,9 VA	/	34mA	/	100%	II	F	Faston 6,3x0,8 mm	①③
6	12V DC (s196)	=	6,2 VA	/	517 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
7	24V DC (s204)	=	6,5 VA	/	253 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
8	24V AC (s202)	50/60 HZ	8 VA	/	334 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
9	110V AC 120V AC (s198)	50 HZ 60 HZ	7,3 VA 7 VA	/	64 mA 59 mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL
10	230V AC (s200)	50/60 HZ	7,9 VA	/	34mA	/	100%	II	F	Faston 6,3x0,8 mm	①②UL

① Materiali conformi al test GW secondo le normative EN 60335-1 e IEC 60695-2-11
Material conforming to the GW test according to the EN 60335-1 and IEC 60695-2-11 standars

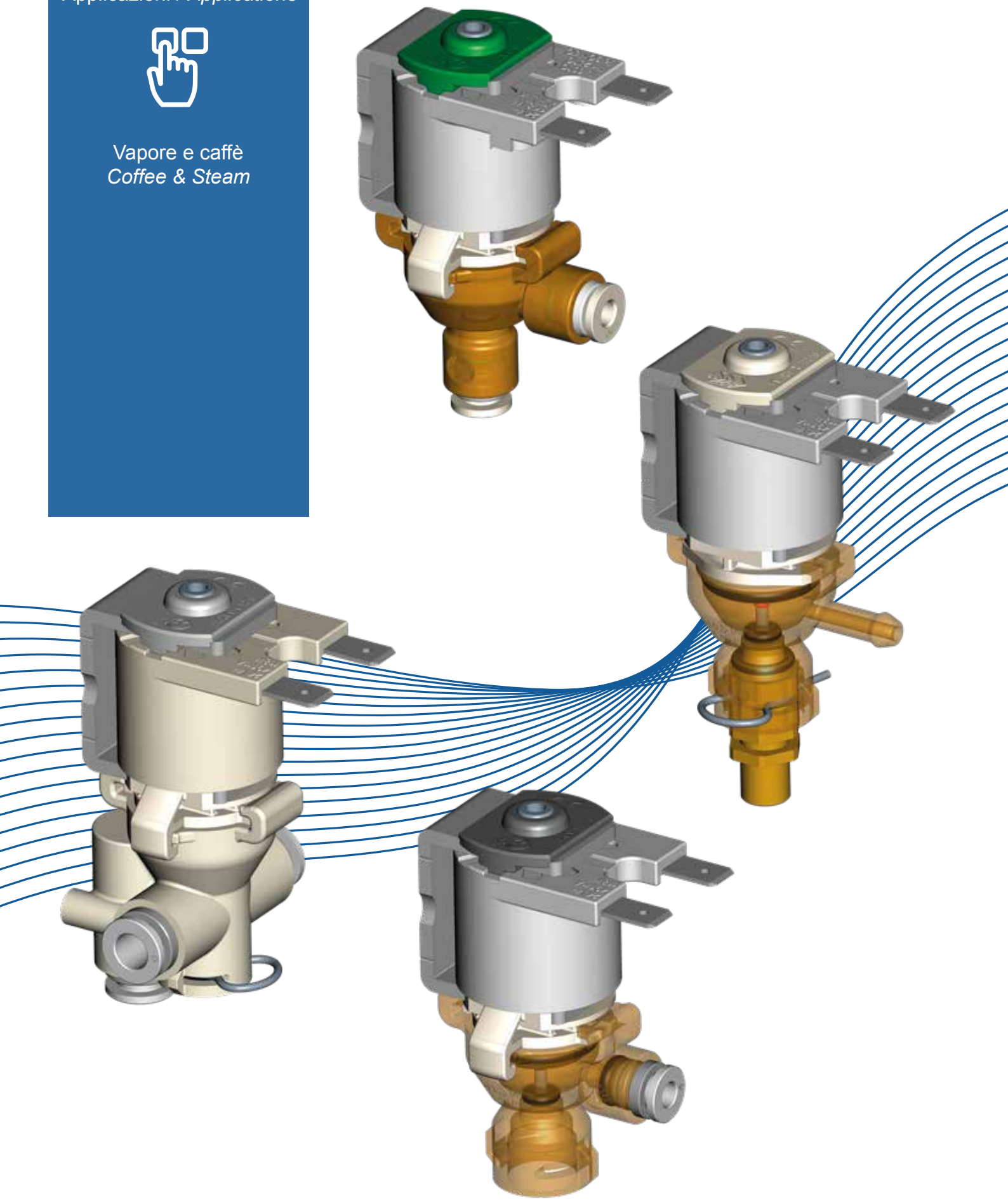
② Materiali conformi agli standard UL
Material conforming to UL standards

③ Certificata ENEC secondo la normativa EN 60730-2-8 e la 60335-1
Certified according to the EN 60730-2-8 and 60335-1 standards

Serie Vapore
Steam Series

Applicazioni / *Applications*

Vapore e caffè
Coffee & Steam



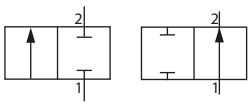
SPECIFICHE TECNICHE

- Corpo valvola: PPSU; PPS
- Membrana: EPDM; LSR
- Guarnizioni: EPDM
- Nucleo: Acciaio inox
- Bobine: Acciaio inox
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-18 bar
- Temp. ambiente: TU 60°C
- Temp. fluido: Tm 140°C

TECHNICAL SPECIFICATIONS

- *Valve body: PPSU; PPS*
- *Diaphragm: EPDM; LSR*
- *Gasket: EPDM*
- *Core: Stainless steel*
- *Coils: Stainless steel*
- *Assembly: Bayonet*
- *Working pressure: 0-18 bar*
- *Room temperature: TU 60°C*
- *Fluid temperature: Tm 140°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Sistema di separazione del fluido / *Fluid separation system*
- Sistema autopulente / *Self-cleaning system*
- Ampia gamma di voltaggi / *Wide range of voltages*
- Valvola compatta / *Compact valve*
- Realizzata in tecnopolimero resistente alle alte temperature
  Made of high temperature resistant technopolymer

CERTIFICAZIONI / *CERTIFICATION*

* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie Vapore
Steam Series

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0-18 bar	Working pressure	0-18 bar
Contropressione	Max 8 bar	Back- pressure	Max 8 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 140° C	Fluid temperature	Tm 140° C
Diametro nominale	DN 1,5 - 2,0 - 2,5 mm	Orifice	DN 1,5 - 2,0 - 2,5 mm
Comando	NC	Control	NC
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE / *ELECTRICAL CONNECTIONS*

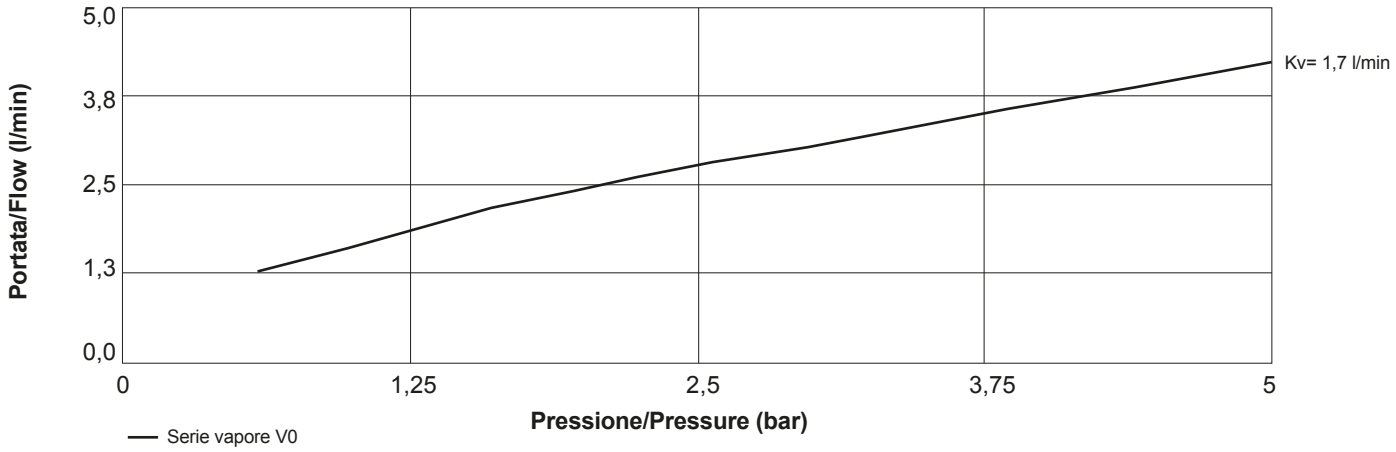
Faston 6,3x0,8 mm

Faston 6,3x0,8 mm

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure	Temp. Ambiente Room temp.	Temp. Fluido Fluid temp.
V0	1/8" M	PG 5 mm	108	2 mm	0 - 5 bar	2 bar	60° C	140° C

Legenda / Key: PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE VAPORE / *FLOW RATES CHART STEAM SERIES*



Codice progress. (Process code)	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cos	ED (Funzionamento) Duty cyvle	Faston (F), Cavi Wires*** bipolari (in mm)	Cavi Wires*** Bipolari (in mm)	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	11,8 W	/	490 mA	/	/	60%	F	/	ENEC,GV	✓	/
2	230 V AC	50/60 HZ	11,1 VA	16,60 VA	48 mA	72 mA	0,64	60%	F	/	/	✓	/

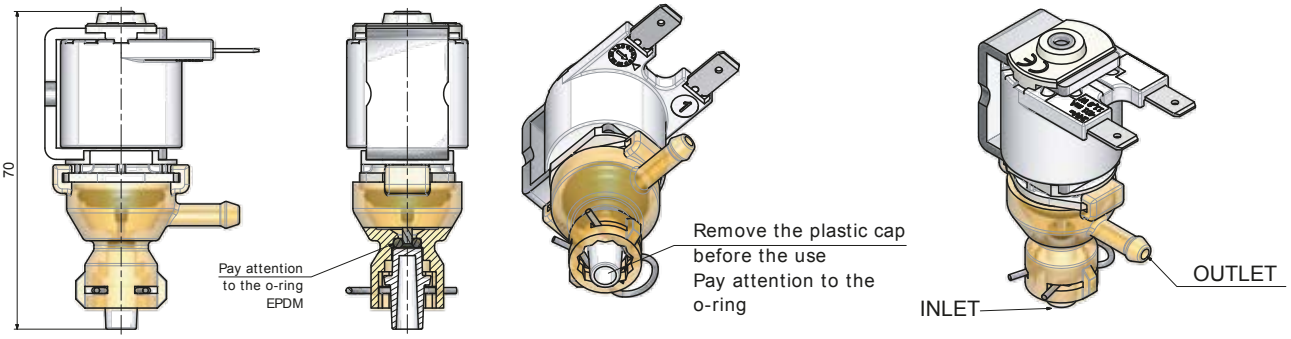
SERIE VAPORE V0 / *STEAM VALVES V0*

M.O.Q.:
108 pcs

IN:
Forchetta/*Fork*

OUT:
PG/Hose
Tail ø5 mm

A:38

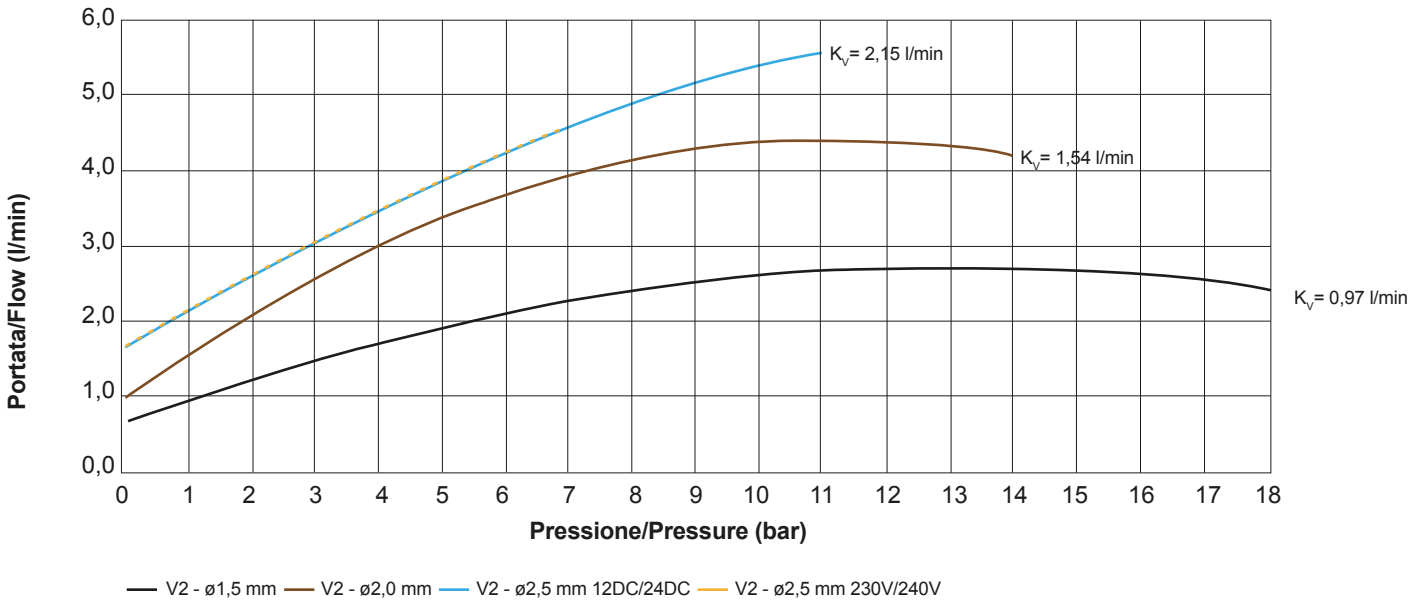


Misure in millimetri - Dimensions in millimeters

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio / Working pressure	Contropressione Back pressure	Temp. Ambiente Room temp.	Temp. Fluido Fluid temp.
V2- 1.5 mm	connessione rapida 4 mm	connessione rapida 4 mm	108	1.5 mm	0 - 18 bar	8 bar	60° C	140° C
V2- 1.5 mm	Forchetta	connessione rapida 4 mm	108	1.5 mm	0 - 18 bar	8 bar	60° C	140° C
V2- 2.0 mm	Forchetta	PF 4 mm	108	2,0 mm	0 - 12 bar	8 bar	60° C	140° C
V2- 2.0 mm	Forchetta	PF 4 mm	108	2,0 mm	0 - 12 bar	8 bar	60° C	140° C
V2- 2.5 mm	PF 6 mm	PF 6 mm	108	2,0 mm	0 - 12 bar	8 bar	60° C	140° C
V2- 2.5 mm	Forchetta	Forchetta	108	2.5 mm	0 - 10 bar	8 bar	60° C	140° C

Legenda / Key: Forchetta = Fork PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE VAPORE / *FLOW RATES CHART STEAM SERIES*



Codice progress. (Process code)	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED (Funzionamento) Duty cyvle	Faston (F), Cavi Wires*** bipolari (in mm)	Cavi Wires*** Bipolari (in mm)	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	11,8 W	/	490 mA	/	/	50%	F	/	/	✓	/
2	230 V AC	50 HZ	11,1 VA	16,60 VA	48 mA	72 mA	0,64	50%	F	/	/	✓	/

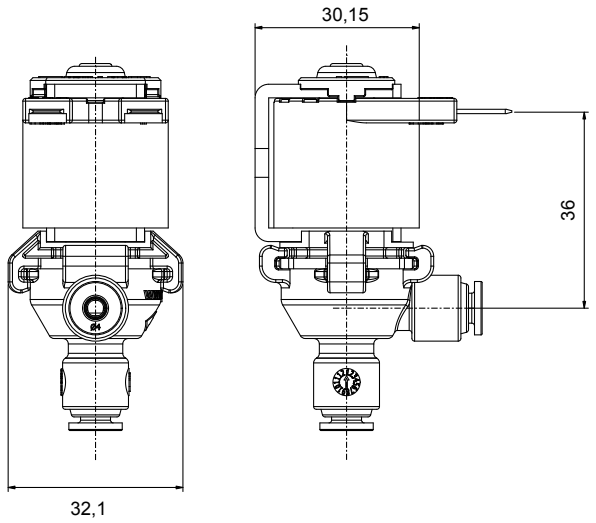
SERIE VAPORE V2 - 1.5 MM / *STEAM VALVES V2 - 1.5 MM*

M.O.Q.:
108 pcs

IN:
PF 4

OUT:
PF 4

A:
38



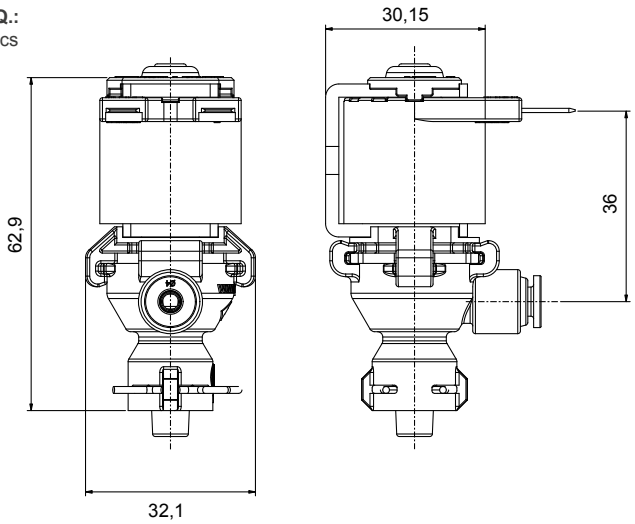
SERIE VAPORE V2 - 1.5 MM / *STEAM VALVES V2 - 1.5 MM*

M.O.Q.:
108 pcs

IN:
PF 4

OUT:
Fork

A:
38



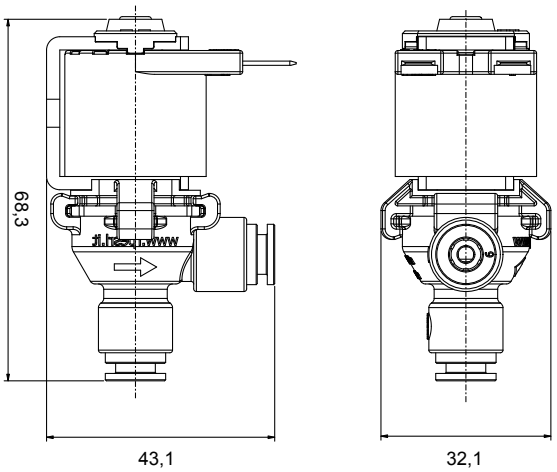
SERIE VAPORE V2 - 2.5 MM / *STEAM VALVES V2 - 2.5 MM*

M.O.Q.:
108 pcs

IN:
PF 6

OUT:
PF 6

A:
38



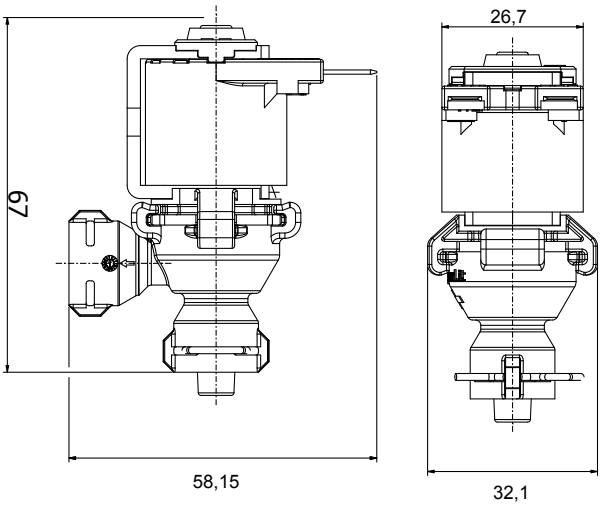
SERIE VAPORE V2 - 2.5 MM / *STEAM VALVES V2 - 2.5 MM*

M.O.Q.:
108 pcs

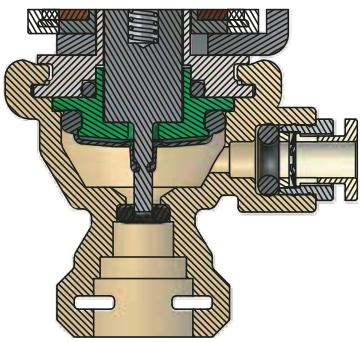
IN:
Fork

OUT:
Fork

A:
38



DETTAGLIO SISTEMA AUTOPULENTE / *SELF CLEANING SYSTEM*



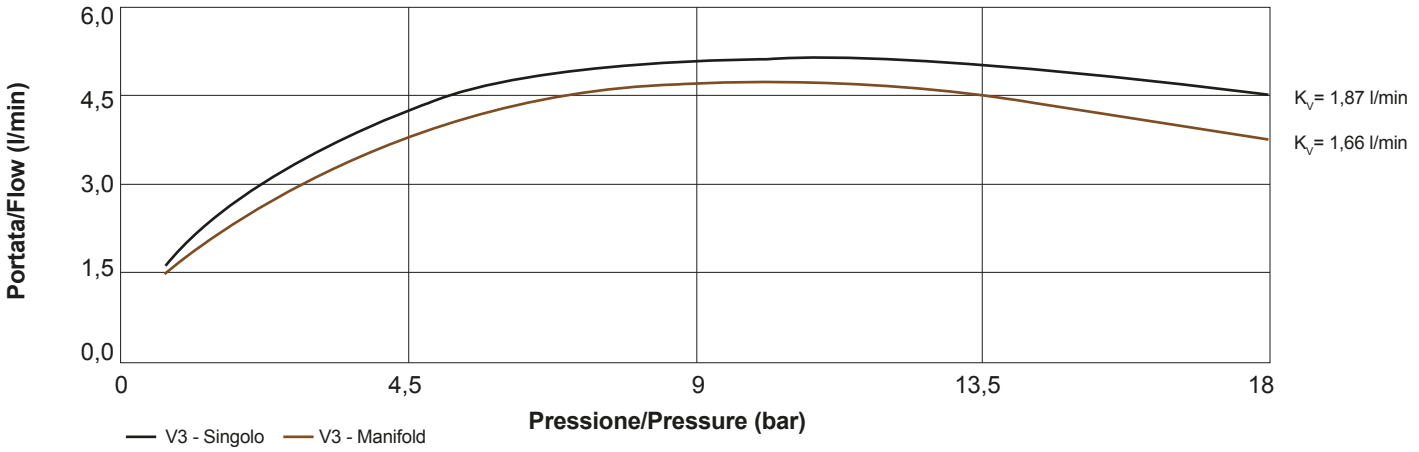
*Presente in tutti i modelli / Available in all model

Misure in millimetri - Dimensions in millimeters

Modello Model	IN	OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure	Contropressione Back pressure	Temp. Ambiente Room temp.	Temp. Fluido Fluid temp.
V3	1/8" M	PG 5 mm	108	2 mm	0 - 5 bar	2 bar	60° C	140° C

Legenda / Key: PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE VAPORE / *FLOW RATES CHART STEAM SERIES*

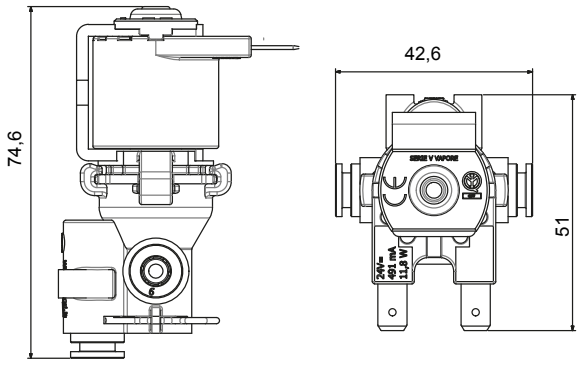


SERIE VAPORE V3 / *STEAM VALVES V3*

M.O.Q.:
108 pcs

IN:
PF 6

OUT:
PF 6

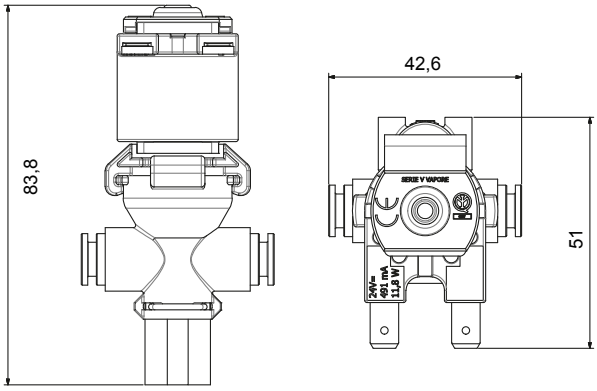


SERIE VAPORE V3 / *STEAM VALVES V3*

M.O.Q.:
108 pcs

IN:
PF 6

OUT:
1/8 BSPP



Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO	Bistabile Latching
1	24 V DC	=	11,8 W	/	490 mA	/	/	50%	II	/	ENEC,GW	3 way	3 way	X

Serie R - 3/2 vie di scambio

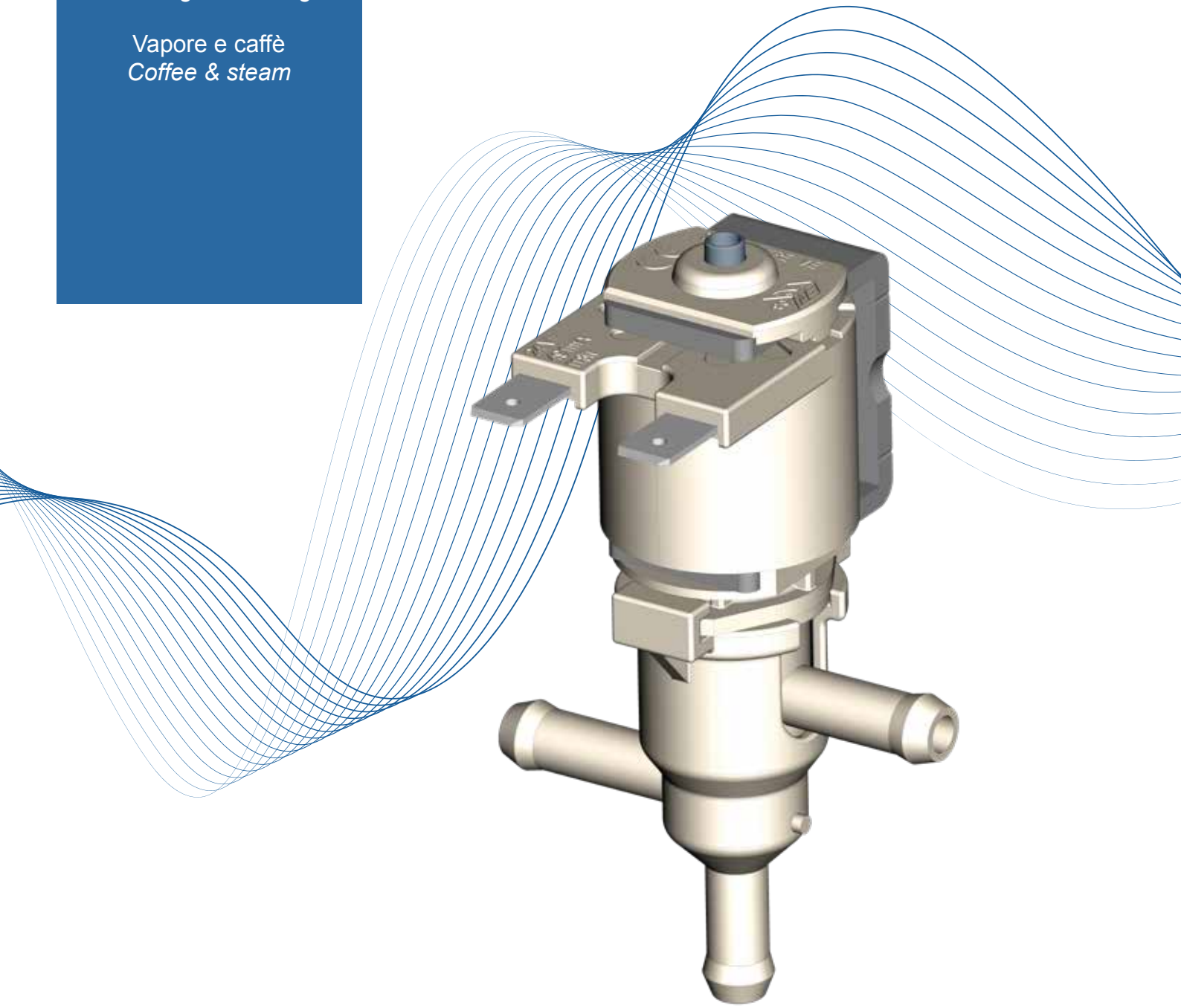
R Series - 3/2 way valve

Applicazioni / *Applications*

Eletrdomestico
Household appliances

Bevande e filtrazione
Beverage & filtering

Vapore e caffè
Coffee & steam



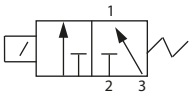
SPECIFICHE TECNICHE

- Corpo valvola: POM; PPH; PPSU
- Membrana: LSR
- Nucleo: Acciaio inox
- Bobine: Classe F (155°)
- Assemblaggio: Baionetta
- Pressione di esercizio: 0,05 bar (R1 - R2 - R4)
  0,8 bar (R2 DN 3,5 PG 65)
  0,1 bar (R2 DN 4 PG 65)
  0,4 bar (R2 alta temp.)
- Temp. ambiente: 60°C
- Temp. fluido: 60°C
  140°C (R2 alta temp.)

TECHNICAL SPECIFICATIONS

- *Valve body: POM; PPH; PPSU*
- *Diaphragm: LSR*
- *Core: Stainless steel*
- *Coils: F class (155°)*
- *Assembly: Bayonet*
- *Working pressure: 0,05 bar (R1 - R2 - R4)*
  0,8 bar (R2 DN 3,5 PG 65)
  0,1 bar (R2 DN 4 PG 65)
  0,4 bar (R2 alta temp.)
- *Room temperature: 60°C*
- *Fluid temperature: 60°C*
  140°C (R2 high temp.)

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola compatta / *Compact valve*
- Ampia gamma di voltaggi / *Wide range of voltages*
- Sistema di separazione del fluido / *Fluid separation system*
- Sistema autopulente / *Self-cleaning system*
- Adatta per applicazioni in circuiti di pulizia macchina / *Suitable for applications in machine cleaning circuits*

CERTIFICAZIONI / *CERTIFICATION*

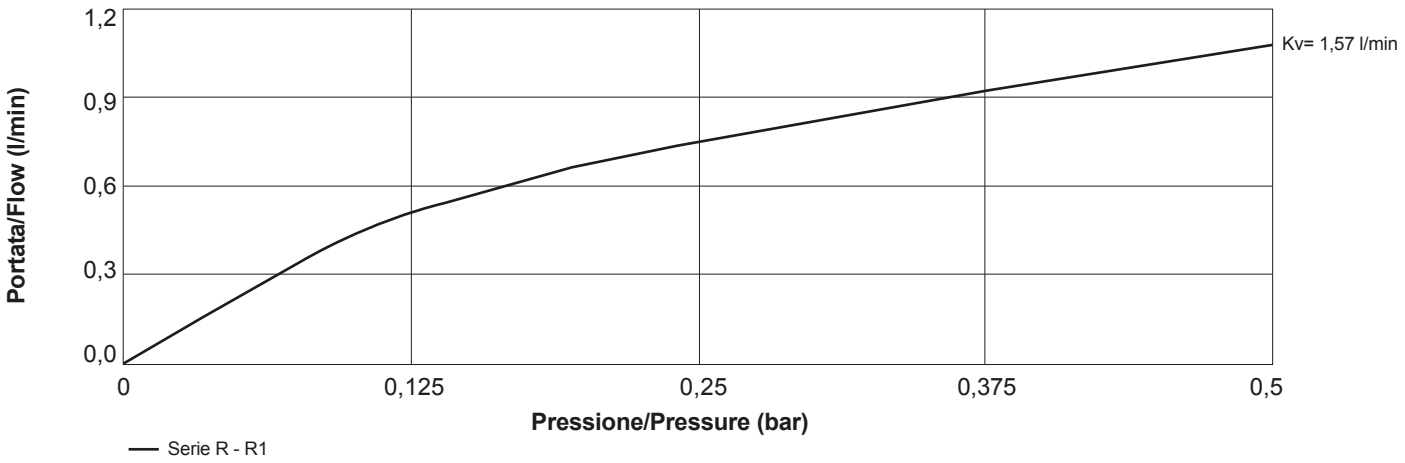
* See official listing (www.nsf.org) to identify which models are NSF Certified

Serie R - 3/2 vie di scambio
R Series - 3/2 way valve

Modello Model	IN	OUT	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R1	PG 5 mm	PG 5 mm	PG 5 mm	POM	2 mm	0 - 0,5 bar	0 - 0,1 bar

Legenda / Key: PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE R 3/2 VIE DI SCAMBIO - R1
FLOW RATES CHART R SEIRES 3/2 WAY VALVE - R1



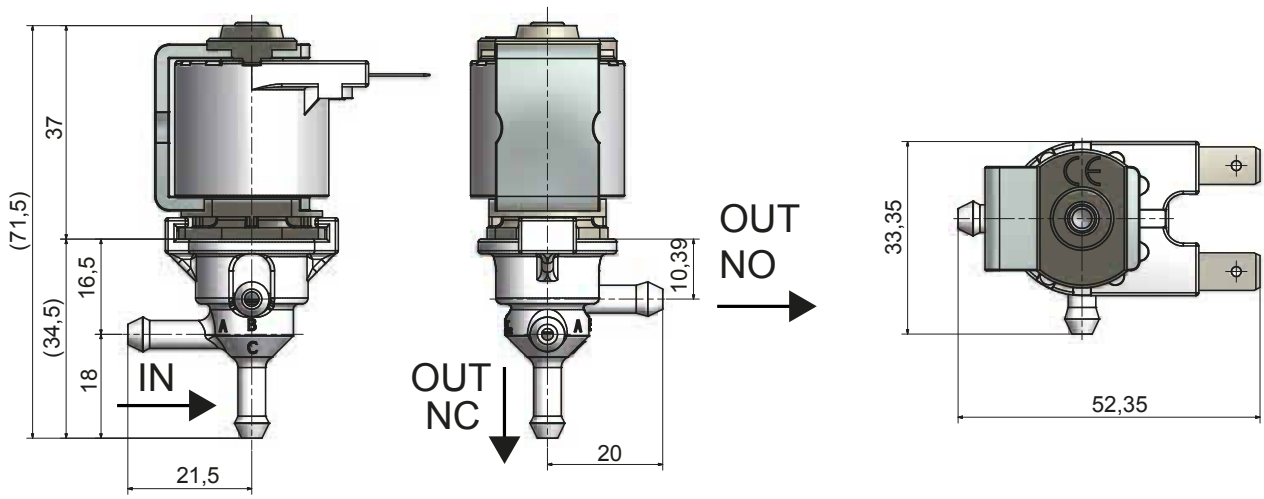
R1

M.O.Q.:
108 pcs

IN:
PG 5

OUT:
PG 5

A: 35

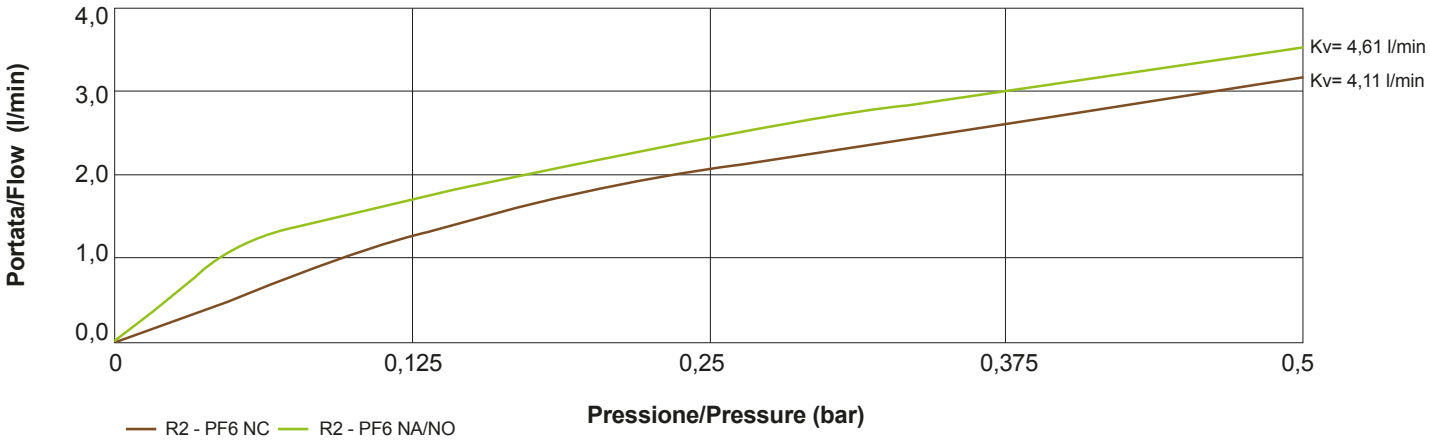


Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	11,8 W	/	490 mA	/	/	3min ON 5min OFF	F	/	ENEC, GW	3 way	3 way
2	230 V AC	50/60 HZ	11,1 VA	/	50 mA	/	0,656	3min ON 5min OFF	F	/	GW	3 way	3 way
4	12 V DC	=	8,5 W	/	710 mA	/	/	3min ON 5min OFF	F	/	ENEC, GW	3 way	3 way

Misure in millimetri - Dimensions in millimeters

Modello Model	IN	OUT	OUT NA/NO	Corpo valvola Body valve	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R2 - PF6	PF	PF	PF	POM	6 mm	0 - 0,5 bar	0 - 0,1 bar

GRAFICO PORTATE SERIE R2 PF6 / *FLOW RATES CHART R2 SEIRES PF6*

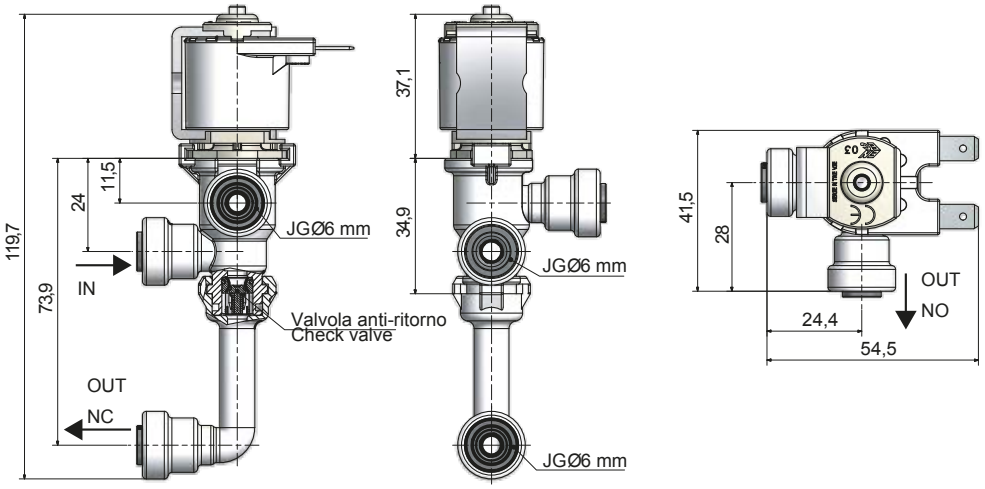


R2 PF6

M.O.Q.:
108 pcs

IN:
PF 6

OUT:
PF 6



Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	11,8 W	/	490 mA	/	/	3min ON 5min OFF	F	/	ENEC, GW	3 way	3 way
2	230 V AC	50 HZ 60 HZ	11,1 VA	/	50 mA	/	0,656	3min ON 5min OFF	F	/	/	3 way	3 way
3	12 V AC 12 V DC	50/60 HZ =	4,4 VA 8,5 W	5,2 VA /	365 mA 710 mA	433 mA /	0,65 /	100%	F	/	ENEC, GW	3 way	3 way

Serie R - 3/2 vie di scambio
R Series - 3/2 way valve

Modello Model	IN	OUT	OUT NA/NO	Corpo valvola Body valve	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R2 - PG65	PG 6.5 mm	PG 6.5 mm	PG 6.5 mm	PPH	3,5 mm	0 - 0,8 bar	0 - 0,8 bar
R2 - PG65	PG 6.5 mm	PG 6.5 mm	PG 6.5 mm	PPH	4 mm	0 - 0,5 bar	0 - 0,1 bar

GRAFICO PORTATE SERIE R2 HT6.5 / *FLOW RATES CHART R2 SEIRES HT6.5*

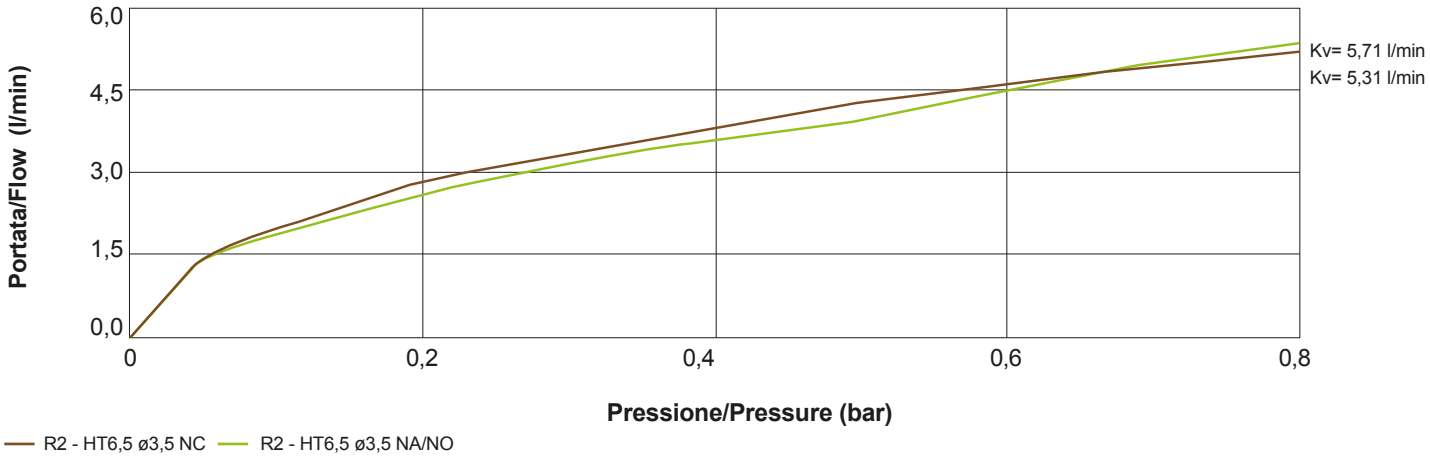
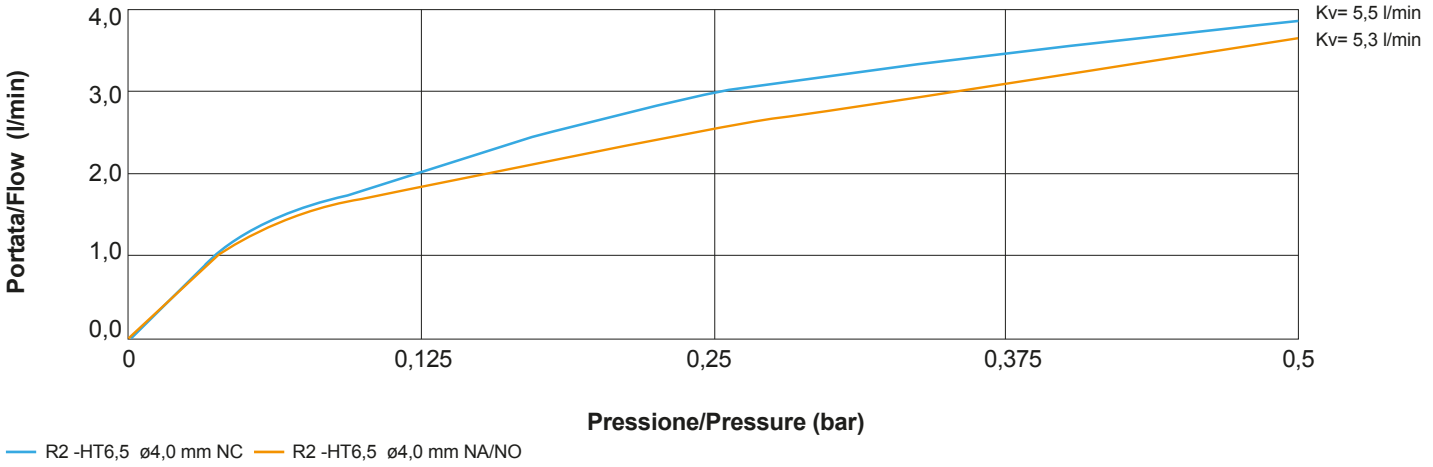


GRAFICO PORTATE SERIE R2 HT6.5 / *FLOW RATES CHART R2 SEIRES HT6.5*



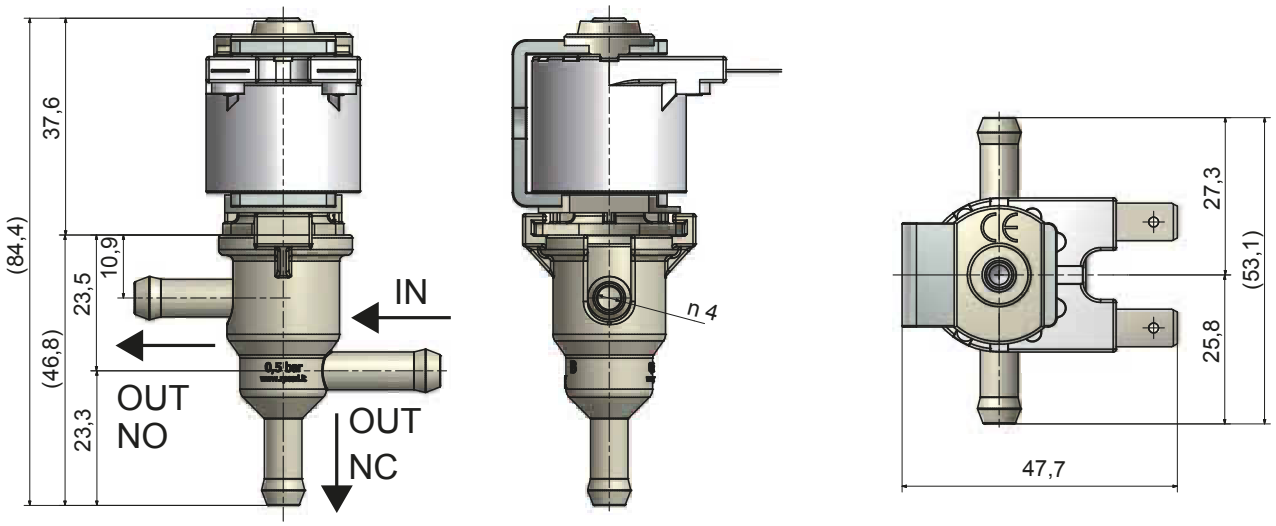
Misure in millimetri - Dimensions in millimeters

R2-PG65

M.O.Q.:
108 pcs

IN:
PG 6,5

OUT:
PG 6,5

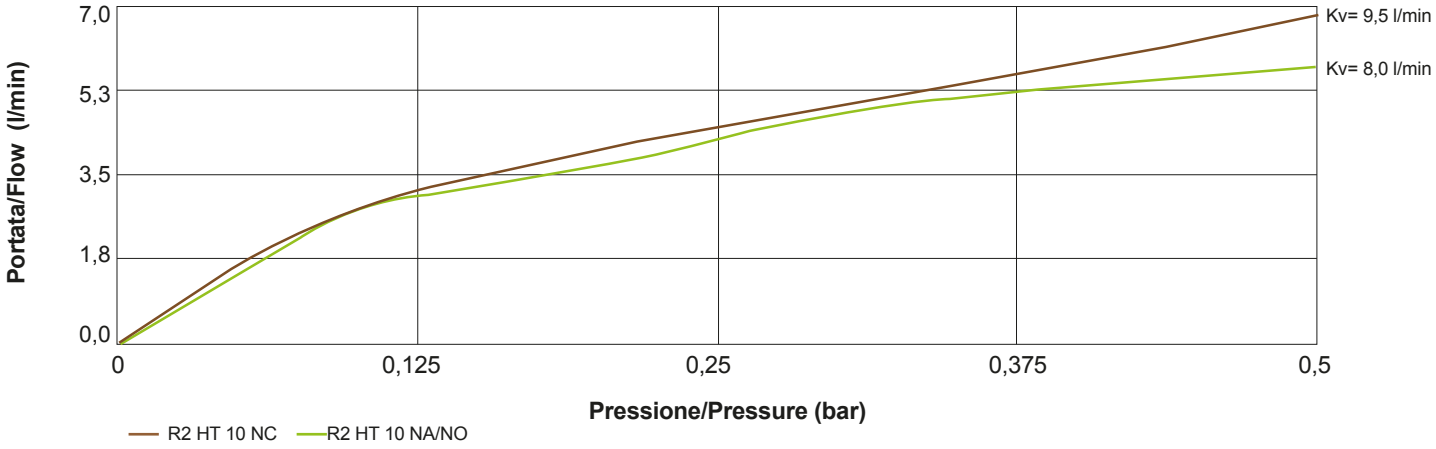


Diametro Diameter	Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
DN 3,5	1	24 V DC	=	11,8 W	/	490 mA	/	/	3min ON 5min OFF	F	/	ENEC,GW	3 way	3 way
DN 4,0	2	230 V AC	50 HZ 60 HZ	11,1 W	/	50 mA	/	0,656	3min ON 5min OFF	F	/	GW	3 way	3 way
DN 4,0	3	12 V	50 HZ 60 HZ =	4,4 VA 4,1 VA 8,5 W	5,2 VA 4,6 VA /	365 mA 340 mA 710 mA	433 mA 383 mA /	0,65 0,59 /	3min ON 5min OFF	F	/	ENEC,GW	3 way	3 way
DN 4,0	4	12 DC	=	5,4 W	/	450 mA	/	/	3min ON 5min OFF	F	/	ENEC	3 way	3 way

Serie R - 3/2 vie di scambio
R Series - 3/2 way valve

Modello Model	IN	OUT	OUT NA/NO	Corpo valvola Body valve	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R2 - PG10	PG 10 mm	PG 10 mm	PG 10 mm	POM	6 mm	0 - 0,5 bar	0 - 0,1 bar

GRAFICO PORTATE SERIE R2 PG10 / *FLOW RATES CHART R2 SEIRES* PG10

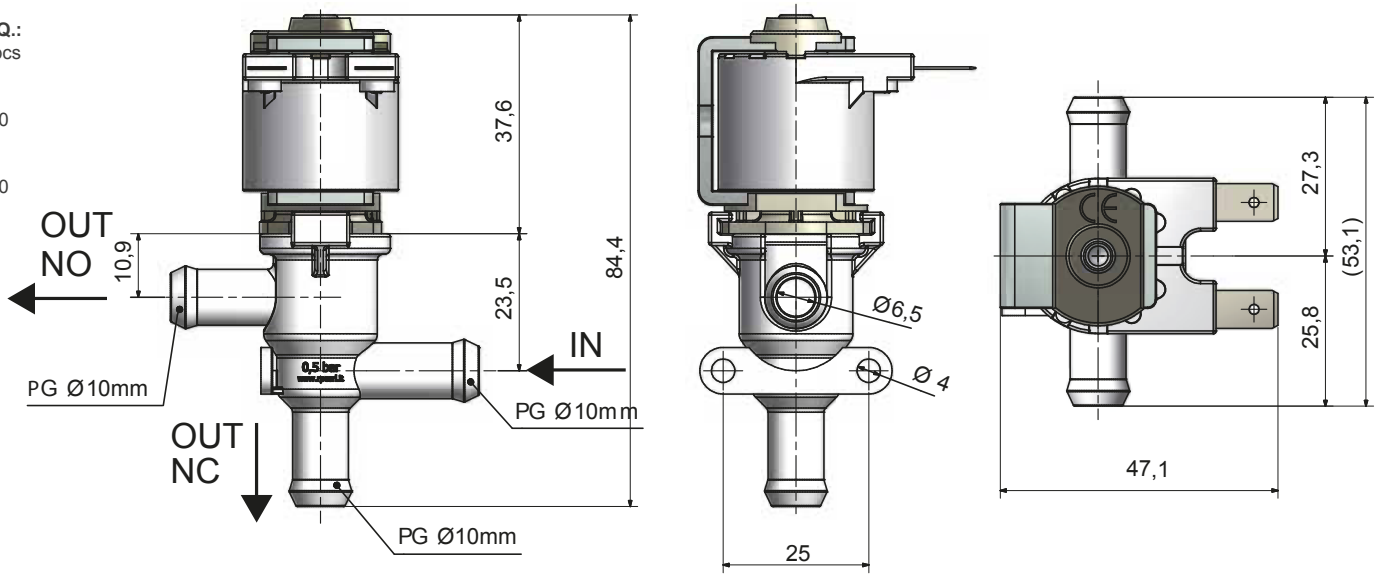


R2-PG10

M.O.Q.:
108 pcs

IN:
PG 10

OUT:
PG 10



Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	⎓	11,8 W	/	490 mA	/	/	3min ON 5min OFF	F	/	ENEC, GW	3 way	3 way
2	230 V AC	50 HZ 60 HZ	11,1 VA	/	50 mA	/	0,656	3min ON 5min OFF	F	/	/	3 way	3 way
3	12 V AC 12 V DC	50/60 HZ ⎓	4,4 VA 8,5 W	5,2 VA /	365 mA 710 mA	433 mA /	0,65 /	100%	F	/	ENEC, GW	3 way	3 way
4	110 V AC	50 HZ 60 HZ	5,00 VA 4,45 W	8,85 VA 8,10 VA	48 mA 39 mA	78 mA 72 mA	0,64 0,62	3min ON 5min OFF	F	/	GW	3 way	3 way

Misure in millimetri - Dimensions in millimeters

Modello Model	IN	OUT	OUT NA/NO	Corpo valvola Body valve	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R2 - PGRM4	PG 5 mm	Forchetta	PF	PPSU	2,5 mm	0 - 4 bar	
R2 - PGRM6	PG 5 mm	Forchetta	PF	PPSU	2,5 mm	0 - 4 bar	
R2 - RM4	PG 4 mm	Forchetta	PF	PPSU	2,5 mm	0 - 4 bar	0 - 4 bar
R2 - RM46	PG 6 mm	Forchetta	PF	PPSU	2,5 mm	0 - 4 bar	0 - 4 bar
R2 - PF444	PF 4	PF 4	PF 4	PPSU	2,5 mm	0 - 4 bar	\

GRAFICO PORTATE SERIE R2 PF4-4 / *FLOW RATES CHART R2 SEIRES PF4-4*

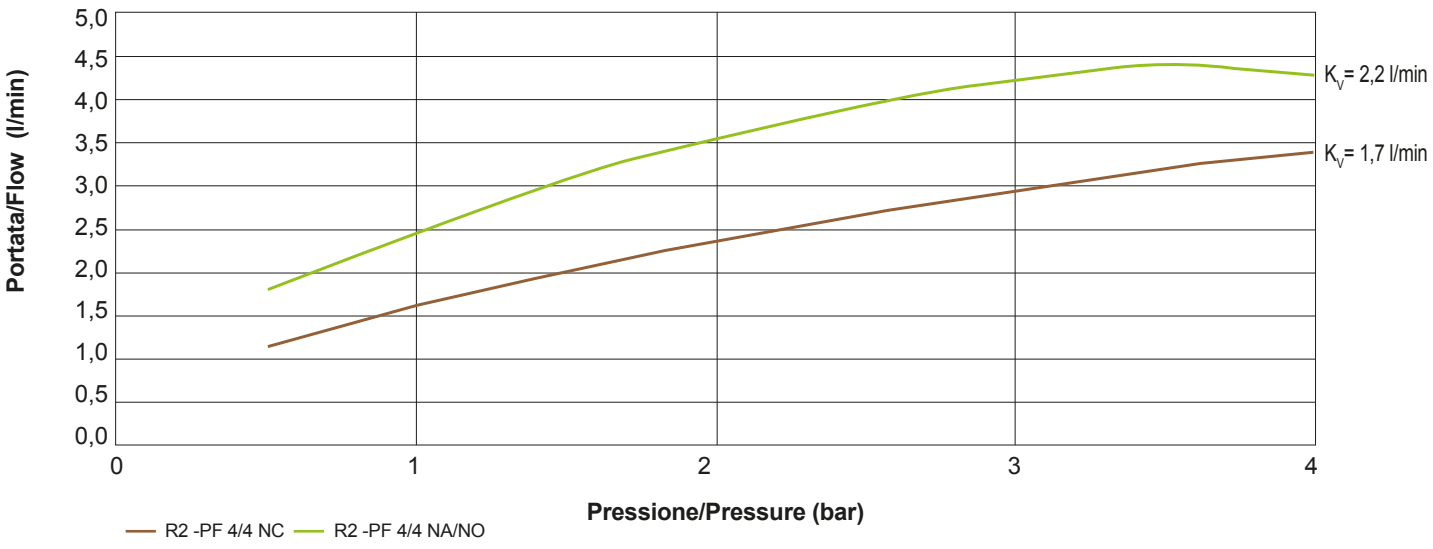
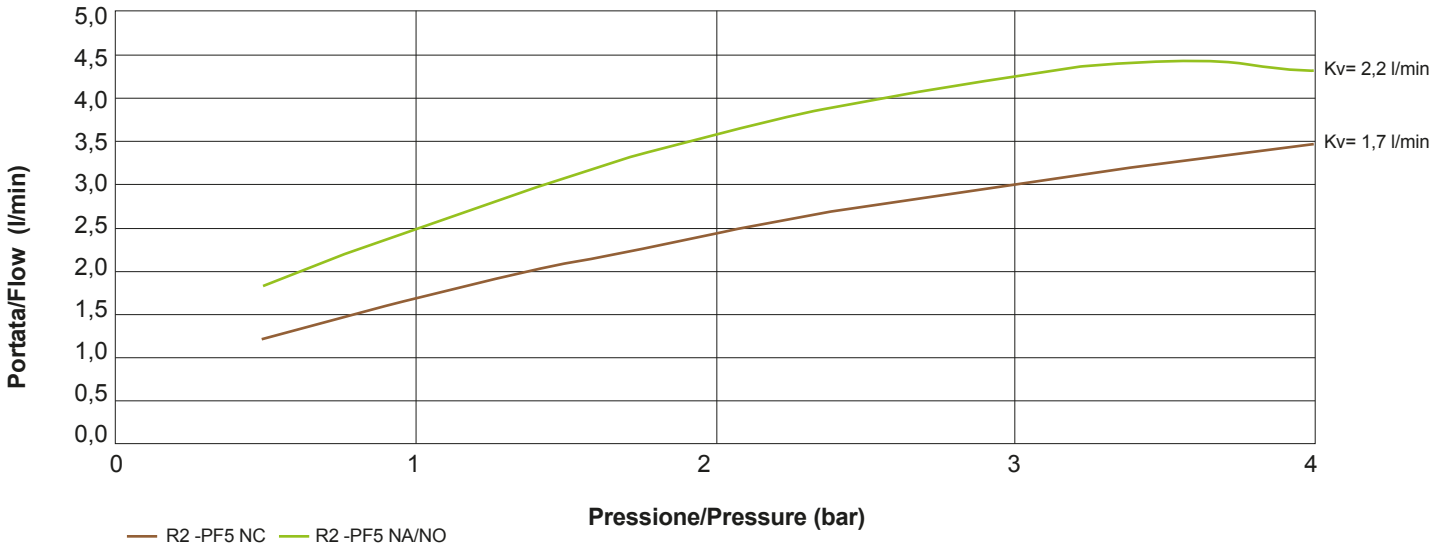
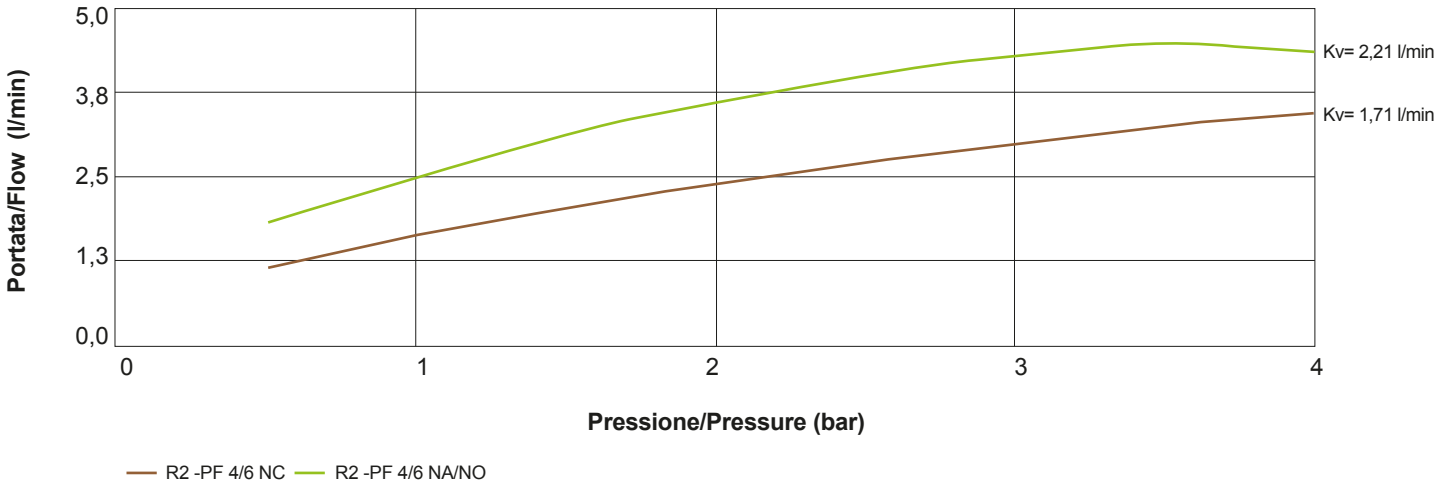


GRAFICO PORTATE SERIE R2 PG5-PF6 / *FLOW RATES CHART R2 SEIRES PG-PF6*



Serie R - 3/2 vie di scambio
R Series - 3/2 way valve

GRAFICO PORTATE SERIE R2 PF4-6 / *FLOW RATES CHART R2 SEIRES* PF4-6

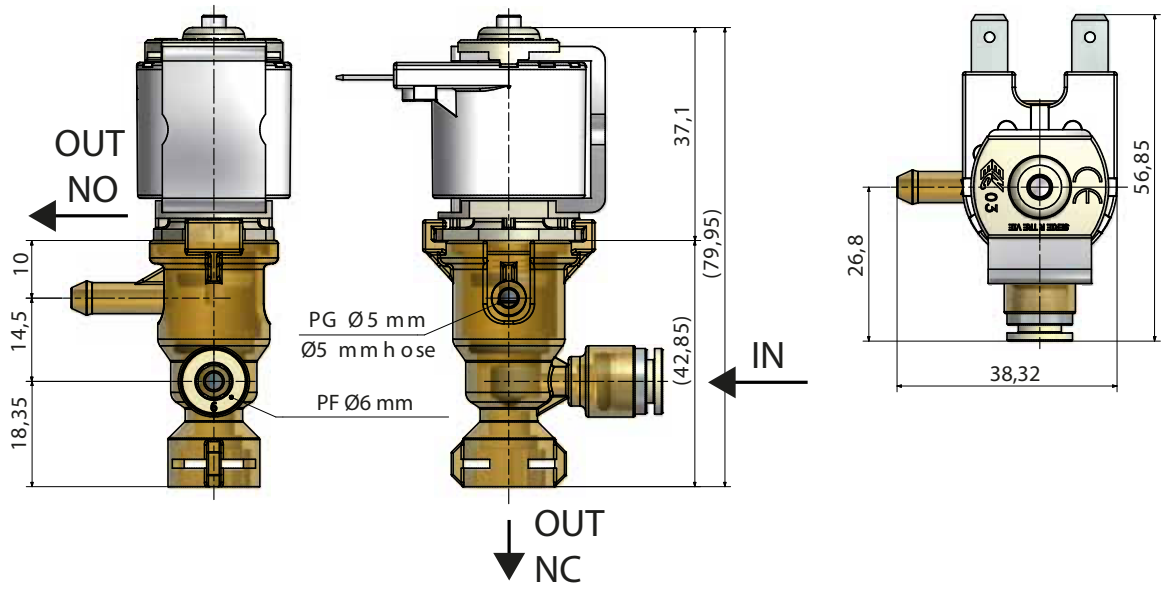


R2 PF FORK

M.O.Q.:
108 pcs

IN:
PF 6

OUT:
PG 5



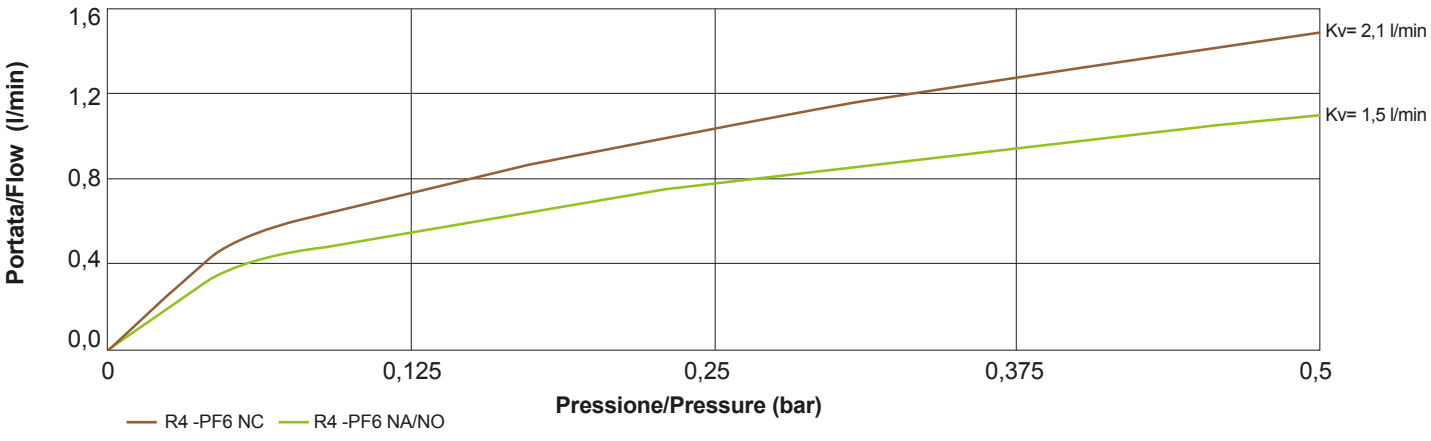
Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	11,8 W	/	490 mA	/	/	3min ON 5min OFF	F	/	ENEC GW	3 way	3 way

Misure in millimetri - Dimensions in millimeters

Modello Model	IN	OUT	OUT NA/NO	Corpo valvola Valve body	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R4	PG 6 mm	PG 6 mm	PG 6 mm	POM	2 mm	0 - 0,5 bar	0 - 0,1 bar

Legenda / Key: PG = Portagomma / Hose tail

GRAFICO PORTATE SERIE R 3/2 VIE DI SCAMBIO - R4 HT6
FLOW RATES CHART R SEIRES 3/2 WAY EXCHANGE VALVE - R4 HT6

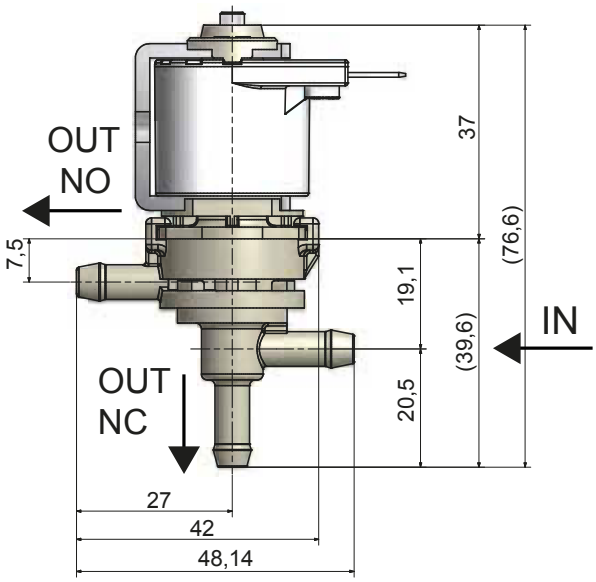


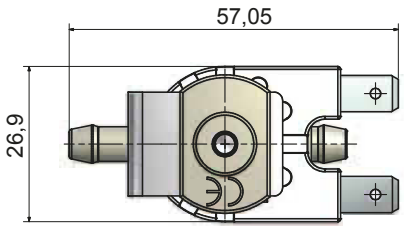
R4

M.O.Q.:
108 pcs

IN:
PF 6

OUT:
PG 6





Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	11,8 W	/	490 mA	/	/	3min ON 5min OFF	F	/	ENEC,GW,UL	3 way	3 way
2	220-240 V	50/60 HZ	12,8 VA	/	/	/	/	3min ON 5min OFF	F	/	ENEC	3 way	3 way

Misure in millimetri - Dimensions in millimeters

Serie R4

R4 Series

Applicazioni / *Applications*

Vapore e caffè
Coffe & Steam

Bevande e filtrazione
Beverage & Filtering

Elettrdomestico
Household appliances

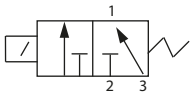
SPECIFICHE TECNICHE

- Corpo valvola: PPSU
- O-ring: EPDM
- Membrana: Silicone liquido LSR
- Nucleo: Acciaio inox
- Molla: Acciaio inox
- Assemblaggio: Baionetta
- Pressione di esercizio: 0-18 bar
- Temp. ambiente: 60°C
- Temp. fluido: 140°C

TECHNICAL SPECIFICATIONS

- *Valve body: PPSU*
- *O-ring: EPDM*
- *Diaphragm: liquid silicone LSR*
- *Core: Stainless steel*
- *Coils: Stainless steel*
- *Assembly: Bayonet*
- *Working pressure: 0-18 bar*
- *Room temperature: 60°C*
- *Fluid temperature: 140°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Sistema di separazione del fluido / *Fluid separation system*
- Sistema autopulente / *Self-cleaning system*
- Ampia gamma di voltaggi / *Wide range of voltages*
- Realizzata in tecnopolimero resistente alle alte temperature
  Made of high temperature resistant technopolymer
- Adatta per applicazioni fino alle alte pressioni / *Suitable for high pressure applications*

CERTIFICAZIONI / *CERTIFICATION*

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0- 18 bar	Working pressure	0- 18 bar
Contropressione	10 bar	Room temperature	10 bar
Temp. ambiente	60° C	Room temperature	60° C
Temperatura fluido	140° C	Fluid temperature	140° C
Diametro di passaggio	DN 2	Orifice	DN 2
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional
Comando	NC azionamento diretto	Control	NC Direct acting
Ed ciclo di lavoro	100% con PWM	ED duty cycle	100% with PWM

CONNESSIONI ELETTRICHE / *ELECTRICAL CONNECTIONS*

Faston 6,3 x 0,8 mm

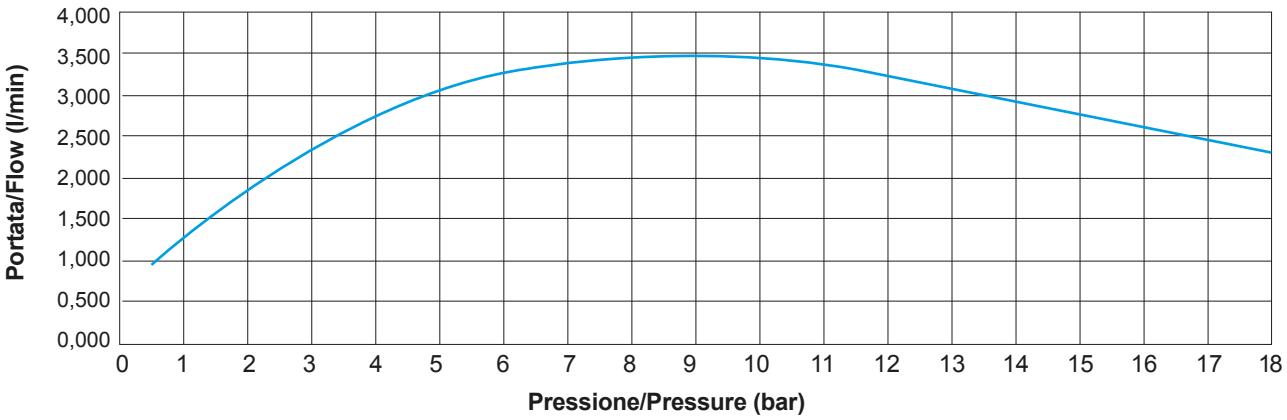
Faston 6,3 x 0,8 mm

Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	1.7 W	22 W	0,07	0,91 (1s)	/	100% con PWM	F	/	/	✓	/

Legenda / *Legend*
NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire
Approvazioni / Approvals ENEC, UL, GW

Faston: IP XO
Cavi / Wires: IP 55
Classe isolamento / *Insulation class: II*
Classe isolamento bobina / *Coil insulation class: F*
Tipo Faston / *Faston type: 6,3 x 0,8 mm*

GRAFICO PORTATE SERIE R4 / *FLOW RATES CHART R4 SEIRES*



Modello Model	IN	OUT	3rd OUT	Corpo valvola Valve body	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure	PWM
R41A0120FFA 24DC B	PF	PF	PG	PPSU	2 mm	0 - 18 bar	10 bar	✓
R41A0120FFA 24DC	PF	PF	PG	PPSU	2 mm	0 - 18 bar	10 bar	

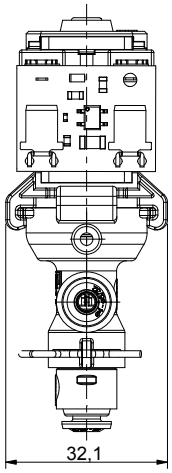
R4

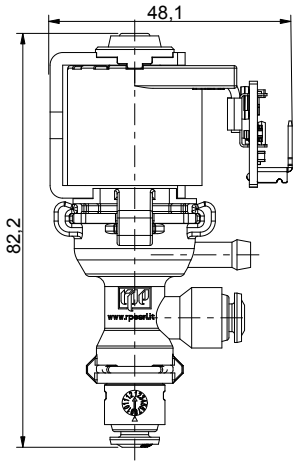
M.O.Q.:
108 pcs

IN:
PF 4 mm

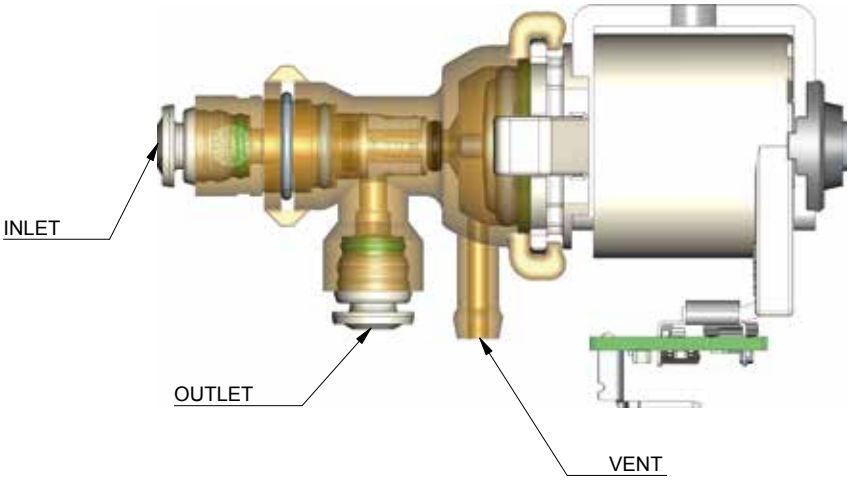
VENT:
PG 5 mm

OUT:
PF 4





SCHEMA DI FUNZIONAMENTO / *WORKING SCHEME*



SUGGERIMENTO DI INSTALLAZIONE PER OTTIMIZZARE PULIZIA CIRCUITO / *INSTALLATION ADVICE FOR OPTIMIZE CLEANING*

Serie R42
R42 Series

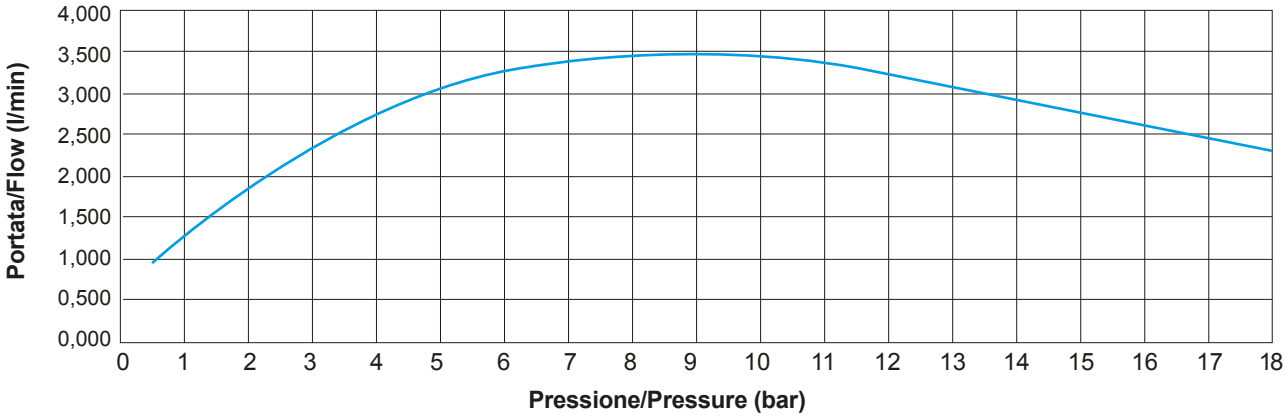
CARATTERISTICHE FISICHE		*PHYSICAL SPECIFICATIONS*	
Corpo valvola	PPSU	Valve body	PPSU
O-ring	EPDM	O-ring	EPDM
Membrana	LSR	Diaphragm	LSR
Nucleo	Acciao Inox	Core	Stainless steel
Molla	Acciao Inox	Spring	Stainless steel
Assemblaggio	Baionetta	Assembly	Bayonet

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0- 18 bar	Working pressure	0- 18 bar
Contropressione massima	10 bar	Max back pressure	10 bar
Temperatura ambiente	80°C	Room temperature	80°C
Temperatura fluido	140° C	Fluid temperature	140° C
Direzione fluido	Bidirezionale	Flow direction	DN 2
Diametro di passaggio	2 mm	Nominal diameter	Bidirectional
Elet. Pilot / Comando	NC	Elect.Pilot/Control	NC
		ED duty cycle 100% with PWM	

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8 mm

CARATTERISTICHE IDRAULICHE		*WORKING SPECIFICATIONS*	
Ingresso	Push-fit 6 mm	Inlet	Push-fit 6 mm
Uscita	Push-fit 6 mm	Outlet	Push-fit 6 mm

GRAFICO PORTATE SERIE R4 / *FLOW RATES CHART R4 SEIRES*



			POTENZA / POWER		ASSORBIMENTO / ABSORPTION					CONNESSIONI / CONNECTIONS		CONTROLLO / CONTROL	
Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	1.7 W	22 W	0,07	0,91 (1s)	/	100% con PWM	F	/	/	✓	/

Legenda / *Legend*
NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: Glow Wire
Approvazioni / Approvals ENEC, UL, GW

Faston: IP XO
Cavi / Wires: IP 55
Classe isolamento / *Insulation class: II*
Classe isolamento bobina / *Coil insulation class: F*
Tipo Faston / *Faston type: 6,3 x 0,8 mm*

Modello Model	IN	OUT	3rd OUT	Corpo valvola Valve body	Diametro nominale Orifice	Pressione di esercizio Working pressure	Contropressione Back pressure
R42A0320EEE 24DC D	PF 6	PF 6	PF 6	PPSU	2 mm	0 - 18 bar	10 bar

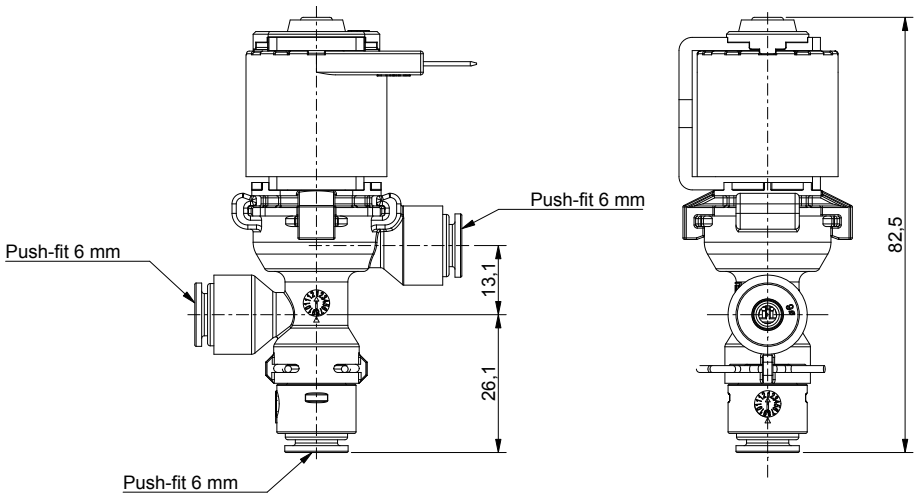
R42

M.O.Q.:
108 pcs

IN:
PF 6 mm

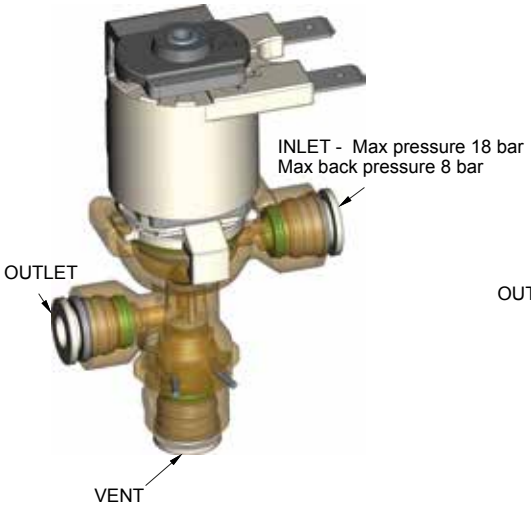
OUT:
PF 6 mm

3°OUT:
PF 6 mm

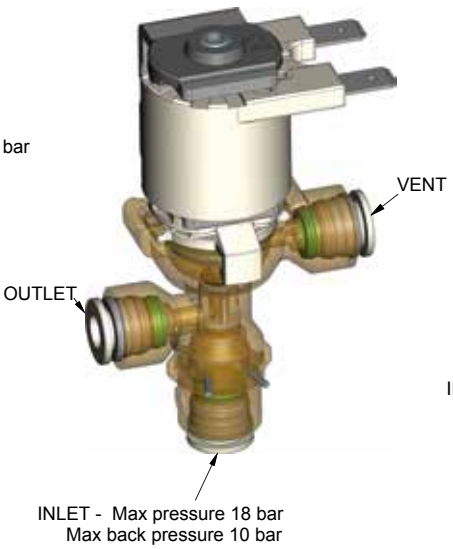


SCHEMA DI FUNZIONAMENTO / *WORKING SCHEME*

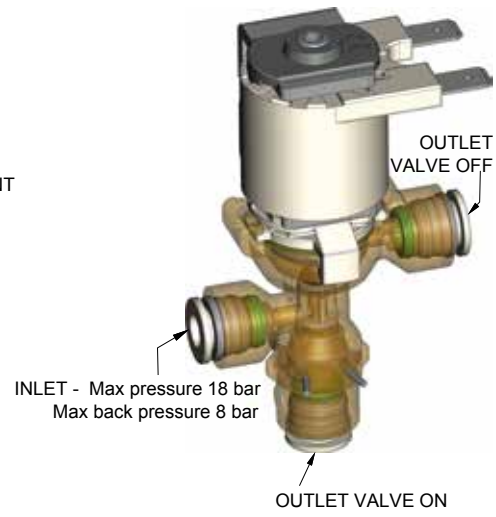
NORMALLY OPEN - NO



NORMALLY CLOSED - NC

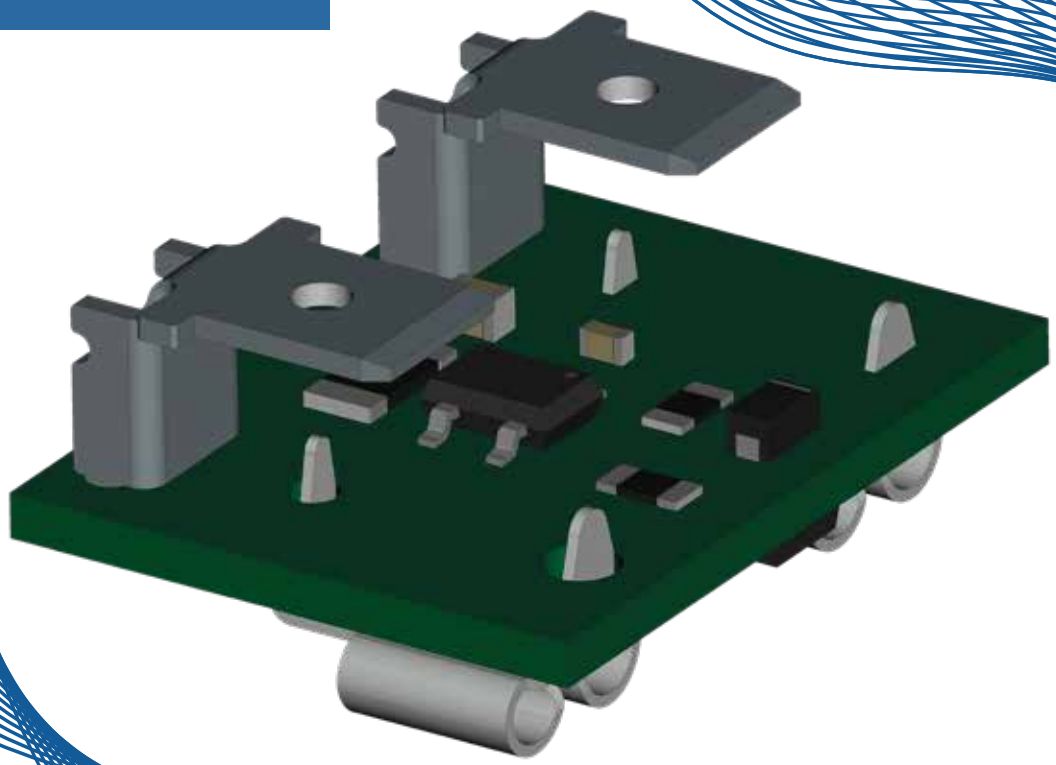


3/2 WAY EXCHANGE VALVE



Applicazioni / *Applications*

Vapore e caffè
Coffee & Steam



SPECIFICHE TECNICHE

- Tempo corrente di spunto: 500 ms ±5%
- Corrente di spunto: 480 mA ±5%
- Corrente di mantenimento: 100 mA ±5%
- Corrente di picco (10 ms): 800 mA ±5%
- Tempo di avvio: 2 mS ±5%
- Tempo di arresto: 100 µs ±5%
- Carico induttivo: 110 mH ±5%

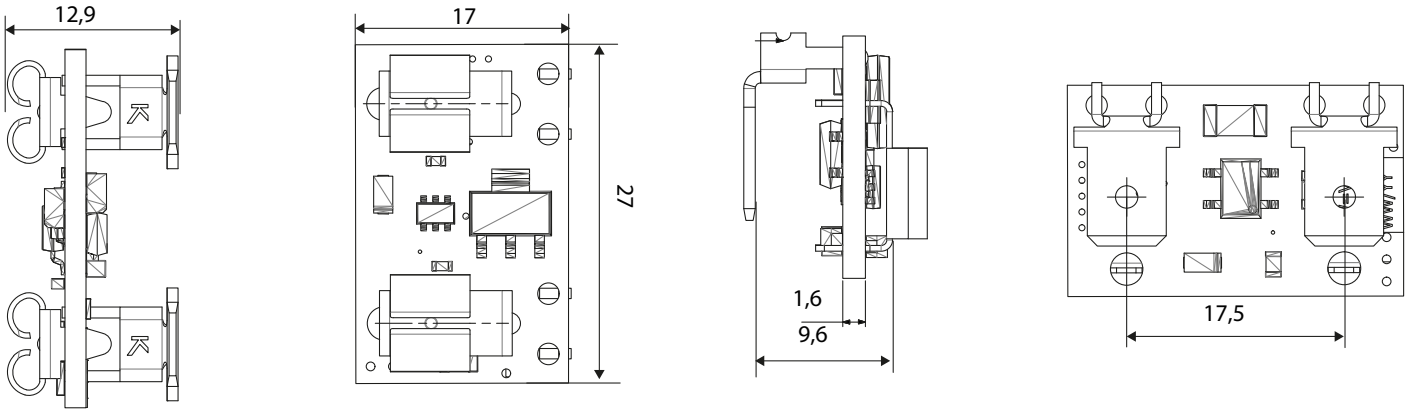
TECHNICAL SPECIFICATIONS

- *In rush time: 500 ms ±5%*
- *In rush current: 480 mA ±5%*
- *Holding current: 100 mA ±5%*
- *Peak current (10 ms): 800 mA ±5%*
- *Start up time: 2 mS ±5%*
- *Stop time (output fall time): 100 µs ±5%*
- *Load inductance: 110 mH ±5%*

PUNTI DI FORZA / *HIGHLIGHTS*

- Consente un ciclo di lavoro continuo della valvola sulla quale è inserita
  The PWM board allows a continuous working cycle of the valve on which it is installed

DIMENSIONI PWM / *PWM DIMENSIONS*

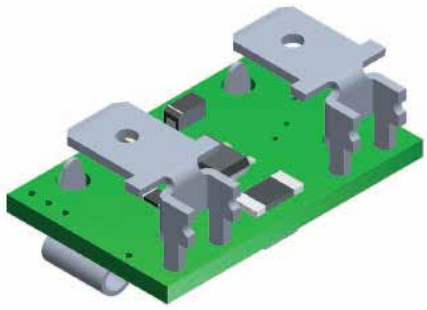


CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Temperatura ambiente	0 ÷ 80°C	Room temperature	0 ÷ 80°C
Tensione di alimentazione	24 V DC ±20%	Supply voltage	24 V DC ±20%
Assorbimento della scheda	16mA	Current consumption of electronic board	16mA
Potenza massima	30 W	Maximum power supply	30 W
Corrente massima	1 A	Maximum power supply	1 A
Corrente di picco (10 ms)	3 A	Peak current (10 ms)	3 A
Tipo di uscita	Mosfet drain aperto	Output type	Mosfet drain aperto
Frequenza PWM	15 kHz ±5%	PWM frequency	15 kHz ±5%
Versione hardware	R4	Versione hardware	R4

CONNESSIONI ELETTRICHE		*ELECTRICAL CONNECTIONS*	
Ingresso	Faston femmina ottone nichelato	Input	Female faston nickel plated brass
Uscita	Faston maschio ottone nichelato	Output	Male faston niickel plated

PWM ASSEMBLATA / PWM ASSEMBLED

PWM / *PWM*



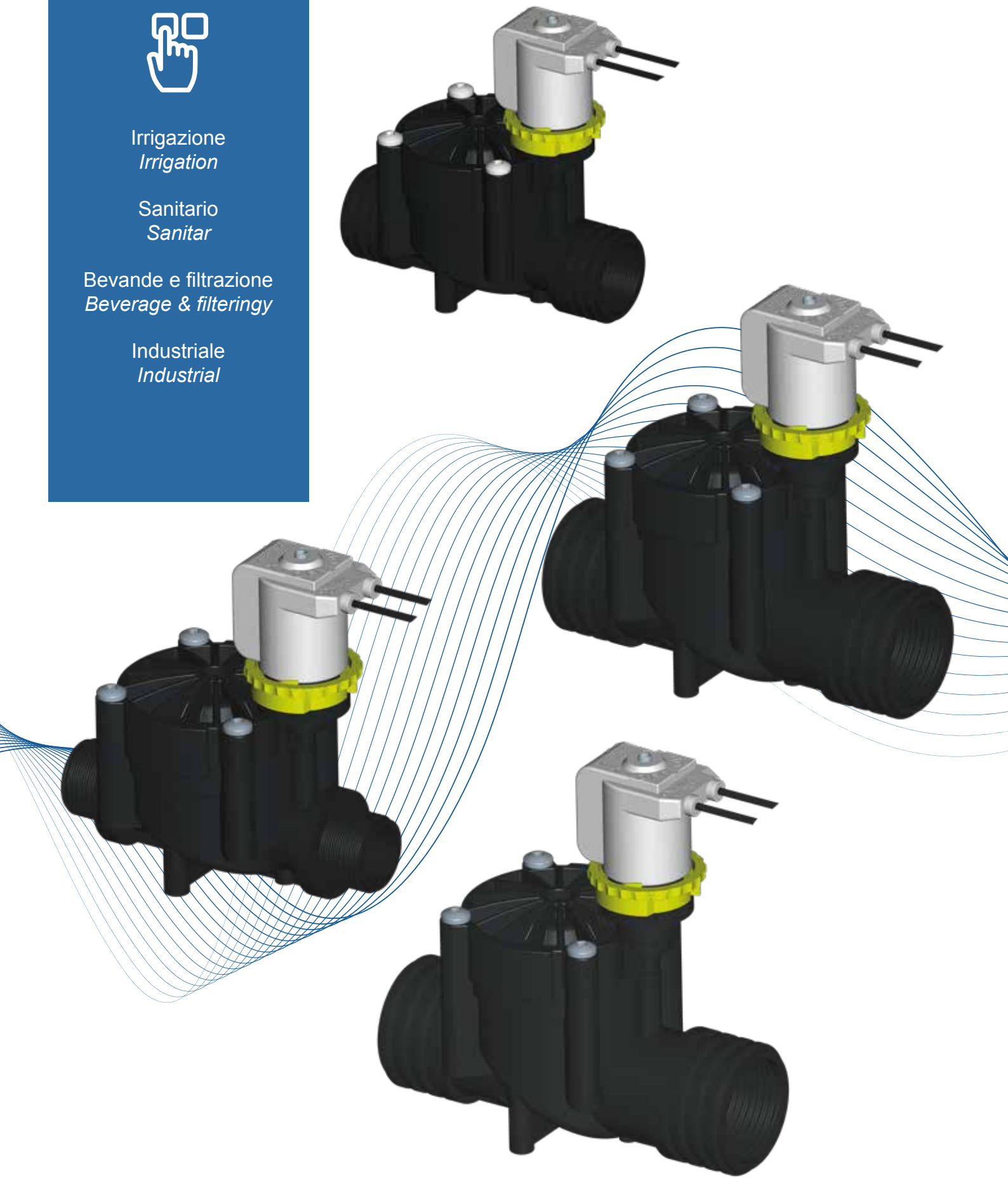
Applicazioni / *Applications*

Irrigazione
Irrigation

Sanitario
Sanitar

Bevande e filtrazione
Beverage & filteringy

Industriale
Industrial



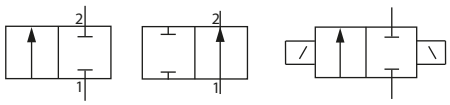
SPECIFICHE TECNICHE

- Corpo valvola: PA 66 - 30 % FV
- Membrana: NBR
- Nucleo: Acciaio Inox
- Bobine: Classe F (155°)
- Assemblaggio: Con viti, ispezionabile
- Pressione di esercizio: 0,5-10 bar
- Temp. ambiente: TU 60°C
- Temp. fluido: Tm 60°C-ED 100%

TECHNICAL SPECIFICATIONS

- *Body valve: PA 66 - 30% GF*
- *Diaphragm: NBR*
- *Core: Stainless steel*
- *Coil: F Class (155°)*
- *Assembly: Self-tapping screw*
- *Working pressure: 0,5-10 bar*
- *Room temperature: TU 60°C*
- *Fluid temperature: Tm 60°C-ED 100%*

ICONE / *ICONS*



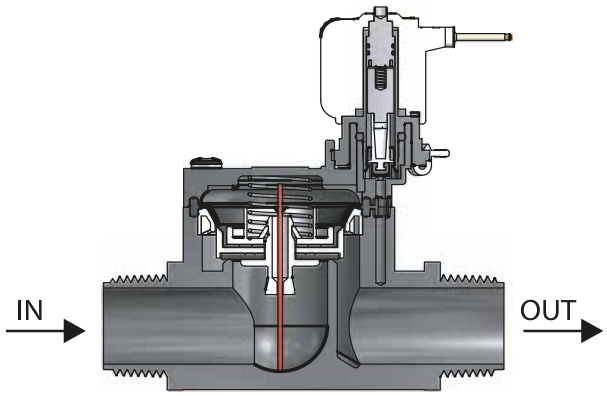
PUNTI DI FORZA / *HIGHLIGHTS*

- Sistema di apertura manuale a baionetta / *Manual bayonet opening system*
- Disponibilità di attacchi diversi / *Availability of different connections*
- Ampia gamma di voltaggi / *Wide range of voltages*
- Disponibile nella versione NC, NA o bistabile / *Available in NC, NO or latching version*
- Sistema autopulente / *Self-cleaning system*

CERTIFICAZIONI / *CERTIFICATION*

CE UKCA

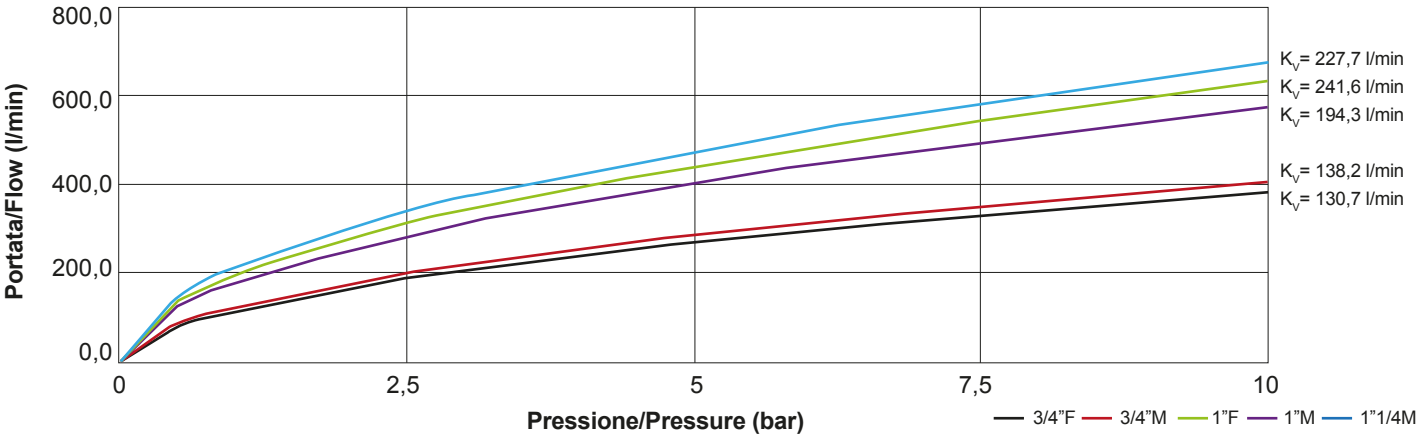
SISTEMA AUTO-PULENTE / *SELF-CLEANING SYSTEM*



CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,5 - 10 bar	Working pressure	0,5 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 60° C - ED 100%	Fluid temperature	Tm 60° C - ED 100%
Diametro nominale	DN 20 mm - DN 25 mm - DN 32 mm	Orifice	DN 20 mm - DN 25 mm - DN 32 mm
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8
Cavi unipolari max 600 mm	Unipolar wires max 600 mm
Cavi bipolari 5000 mm	Bipolar wires 5000 mm

CURVA DI PORTATA / *FLOW RATE*



Modello Model	IN=OUT	M.O.Q. (pcs)	Diametro nominale Nominal diameter	Altezza Height	Lunghezza Length	Larghezza Width
620	3/4" F	24	20 mm	115 mm	111 mm	65 mm
621	3/4" M	24	20 mm	114 mm	85 mm	65 mm
720	1" F	24	20 mm	125 mm	127 mm	65 mm
721	1" M	24	20 mm	125 mm	126 mm	65 mm
821	1" 1/4 M	24	20 mm	126 mm	127 mm	65 mm

620

M.O.Q.:
24 pcs

IN:
3/4" F

OUT:
3/4" F

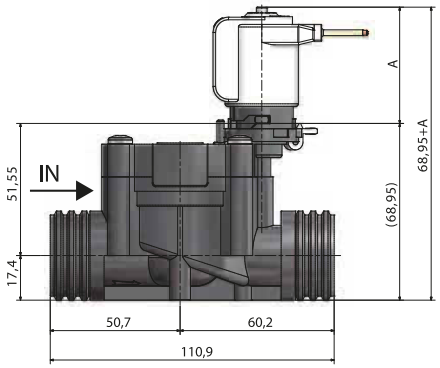
A:
45,3 NC+Faston

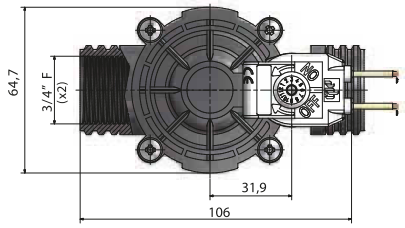
43,5
NC+Cavi/*Cable*

43,6 NA/NO+Faston

46,6 NA/NO+Cavi/*Cable*

45,3
Bistabile/*Latching*





721

M.O.Q.:
24 pcs

IN:
1" M

OUT:
1" M

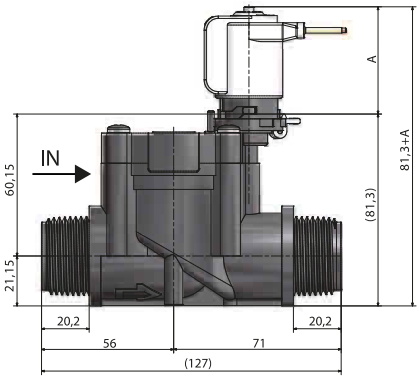
A:
45,3 NC+Faston

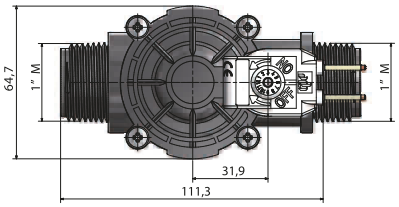
43,5
NC+Cavi/*Cable*

43,6 NA/NO+Faston

46,6 NA/NO+Cavi/*Cable*

45,3
Bistabile/*Latching*





			POTENZA POWER		ASSORBIMENTO CONSUPTION				CONNESSIONI CONNECTIONS		CONTROLLO CONTROL	
Codice progress. Progress code	Tensione Voltage	Frequenza Frequency	Potenza mantenim. Holding Power	Potenza di spunto In Rush Power	Assorbim. (mA) in mantenimento Holding Current	Assorbim. (mA) in spunto In Rush Current	cos φ	ED (funzionamento) (duty cycle)	Faston (F) Cavi (wires)*** Unipolari (C)	Cavi (wires)*** bipolari (in mm)	NC	NA** (NO)
1a	12 V AC	60 HZ	2,95 VA 2,50 VA	5,5 VA 5,0 VA	245 mA 210 mA	460 mA 420 mA	0,61 0,60	100%	F, C	300, 1000, 1450, 2000, 2500	✓	✓
1b	12 V DC	=	8,40 W	/	705 mA	/	/	100%	F, C	300, 1000, 1450, 2000, 2500	✓	✓
2	12 V DC	=	5,62 W	/	475 mA	/	/	100%	F, C	300, 1000, 1450, 2000, 2500	✓	✓
3	24 V AC	50 HZ 60 HZ	5,15 V 4,45 VA	8,9 VA 8,0 VA	215 mA 185 mA	370 mA 335 mA	0,61 0,60	100%	F, C	1000, 1450, 2000, 2500	✓	✓
4	24 V DC	=	6,40 W	/	265 mA	/	/	100%	F, C	1000, 1450, 2500	✓	✓
5	110 V AC	50 HZ 60 HZ	5,40 VA 4,55 VA	8,90 VA 8,15 VA	49 mA 41 mA	81 mA 74 mA	0,63 0,61	100%	F, C	300, 620, 100 1450, 25000,	✓	✓
6	230 V AC	50 HZ 60 HZ	6,45 VA 5,48 VA	9,60 VA 9,00 VA	28 mA 24 mA	42 mA 39 mA	0,71 0,68	100%	F, C	300, 620, 1000, 1450, 2000, 2500	✓	✓
7	240 V AC	50 HZ 60 HZ	6,45 VA 5,48 VA	9,60 VA 9,00 VA	28 mA 24 mA	42 mA 39 mA	0,71 0,68	100%	F, C	300, 620, 1000, 1450, 2000, 2500	✓	✓
NEW 8	L9 V DC	=	3,7 W	/	400 mA	/	/	Latching	F, C	/	/	/
9	L9 V DC	=	3,7 W	/	400 mA	/	/	Latching	F, C	/	/	/

Legenda / *Legend*
NC: Normalmente chiusa / *Normally closed*
NA: Normalamente aperta / Normally Open
NB: Bistabile / Latching
GW: GlowWire
ED: Funzionamento (*Duty Cycles*) = 100%

Faston: IP X0
Cavi (*wires*): IP 55
Classe isolamento (*Insulationclass*): II
Classe isolamento bobina (*Coil Insulation class*): F
Tipo faston (*Faston type*): 6,30x0,8mm

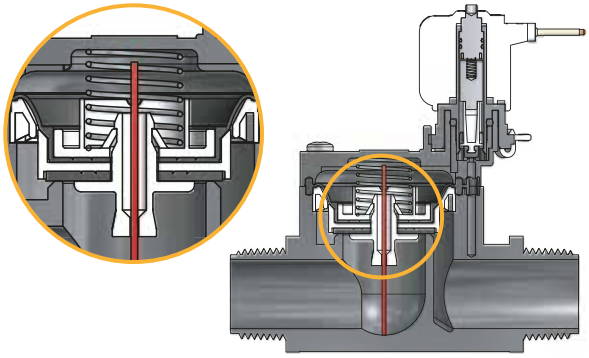
(**) I solenoidi NA non sono disponibili con cavi bipolari / *NO solenoids are not available with bipolar wires*
NEW cavo verde e nero invertito / inverted green and black cable

3/4”F	bar			0,10	0,29	0,42	0,60	0,83	1,04							
	psi			1,45	4,21	6,09	8,70	12,04	15,08							
	l/min			50,0	66,7	83,3	100,0	116,7	133,3							
3/4”M	bar		0,10	0,15	0,29	0,41	0,60	0,78	0,93							
	psi		1,45	2,18	4,21	5,95	8,70	11,31	13,49							
	l/min		33,3	50,0	66,7	83,3	100,0	116,7	133,3							
1”F	bar				0,10	0,13	0,21	0,30	0,34	0,50	0,61	0,72	0,90	1,02		
	psi				1,45	1,89	3,05	4,35	4,93	7,25	8,85	10,44	13,05	14,79		
	l/min				66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7		
1”M	bar			0,08	0,10	0,19	0,23	0,34	0,50	0,60	0,72	0,92	1,06			
	psi			1,16	1,45	2,76	3,34	4,93	7,25	8,70	10,44	13,34	15,37			
	l/min			50,0	66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0			
1”1/4 M	bar				0,10	0,12	0,20	0,23	0,32	0,42	0,53	0,70	0,80	0,92	1,05	
	psi				1,45	1,74	2,90	3,34	4,64	6,09	7,69	10,15	11,60	13,34	15,23	
	l/min				66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	
Portata Flow rate	m3/h	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	l/min	16,7	33,3	50,0	66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	250,0
	GPM	4,4	8,8	13,2	17,6	22,0	26,4	30,8	35,2	39,6	44,0	48,4	52,8	57,2	61,6	66,1

SISTEMA AUTOPULENTE / *SELF-CLEANING SYSTEM*

L'innovativo sistema autopulente ad ago permette alla valvola di pulirsi durante l'apertura e la chiusura del solenoide così da rimanere sempre efficiente.

The innovative self-cleaning system cleans the valve at every opening and closing operated by the solenoid. So the valve maintains high efficiency.



ANELLO GIALLO AUTOBLOCCANTE / *SELF-LOCKING YELLOW RING*

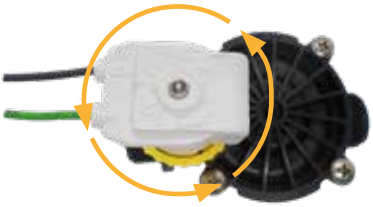
Evita che la bobina possa essere ruotata inavvertitamente oppure asportata, causando danni o allagando.
La chiusura a baionetta è sicura e solida, non ha filettature che possono rovinarsi.

Avoids that the solenoid can be inadvertently rotated or removed, causing damage and flooding.
The bayonet is safe and solid, it has no threads that can de damaged.

RIMOZIONE BOBINA / *SOLENOID REMOVAL*

1 - Posizione di partenza
1 - Starting position

2 - Ruotare solenoide
2 - Rotate solenoid



3 - Sollevare anello
di bloccaggio giallo
3 - Pull-up safety yellow ring

5 - Estrarre il solenoide
5 - Pull out solenoid

4 - Ruotare solenoide
4 - Rotate solenoid

3ª Serie
3rd Series

Applicazioni / *Applications*

Irrigazione
Irrigation

Sanitario
Sanitary

Bevande e filtrazione
Beverage & filteringy

Industriale
Industrial

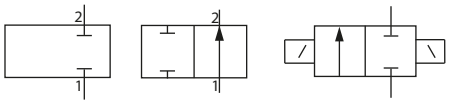
SPECIFICHE TECNICHE

- Corpo valvola: PA 66 30 % FV
- Membrana: NBR
- Nucleo: Acciaio Inox
- Bobine: Classe F (155°)
- Assemblaggio: Con viti, ispezionabile
- Pressione di esercizio: 0,5-10 bar
- Temp. ambiente: TU 60°C
- Temp. fluido: Tm 60°C-ED 100%

TECHNICAL SPECIFICATIONS

- *Body valve: PA 66 30% GF*
- *Diaphragm: NBR*
- *Core: Stainless steel*
- *Coil: F Class (155°)*
- *Assembly: With screws, serviceable*
- *Working pressure: 0,5-10 bar*
- *Room temperature: TU 60°C*
- *Fluid temperature: Tm 60°C-ED 100%*

ICONE / *ICONS*



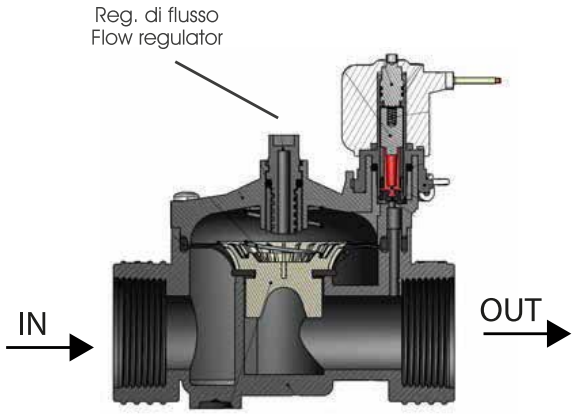
PUNTI DI FORZA / *HIGHLIGHTS*

- Sistema di apertura manuale a baionetta / *Manual bayonet opening system*
- Regolatore di flusso manuale / *Manual flow regulator*
- Connessioni da ½" fino a 3" / *Connections available from ½" to 3"*
- Disponibile versione con filetto d'ottone / *Available version with brass thread*
- Disponibile nella versione NC, NA o bistabile / *Available in NC, NO or latching version*

CERTIFICAZIONI / *CERTIFICATION*

CE UK CA WRAS APPROVED PRODUCT

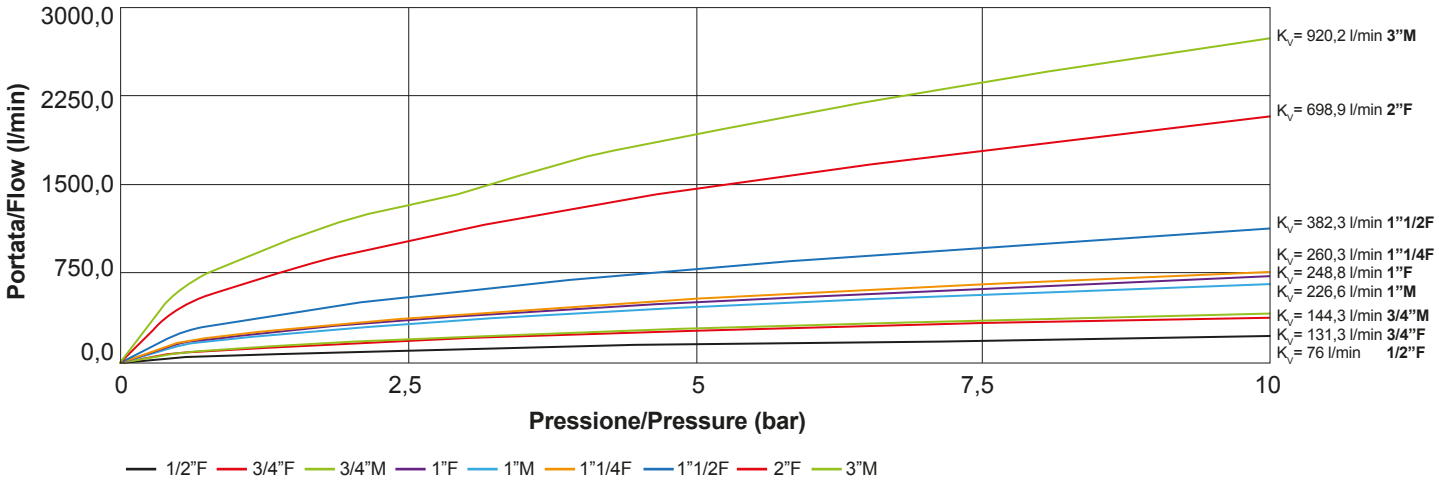
DETTAGLIO 3ª / 3th SERIES DETAIL



CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,5 - 10 bar	Working pressure	0,5 - 10 bar
Temp. ambiente	Tu 60° C	Room temperature	Tu 60° C
Temperatura fluido	Tm 60° C - ED 100%	Fluid temperature	Tm 60° C - ED 100%
Diametro nominale	DN da 15 mm a 50 mm	Orifice	DN da 15 mm a 50 mm
Comando	NC; NA; Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE	*ELECTRICAL CONNECTIONS*
Faston 6,3 x 0,8 mm	Faston 6,3 x 0,8
Cavi unipolari max 600 mm	Unipolar wires max 600 mm
Cavi bipolari 5000 mm	Bipolar wires 5000 mm

CURVA DI PORTATA / *FLOW RATE*

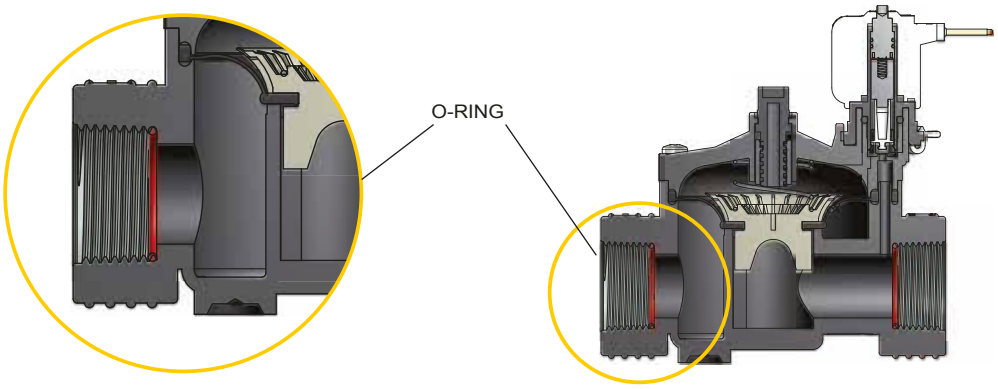


Modello Model	In-Out In-Out	Diametro nominale Orifice	Altezza mm Height mm	Lunghezza mm Length mm	Larghezza mm Width mm	Filetto Threads	M.O.Q. M.O.Q.
530	1/2"F	15 mm	110 mm	114 mm	68 mm	BSPP	24
630	3/4"F	20 mm	110 mm	114 mm	68 mm	BSPP NPT	24
631	3/4"M	20 mm	110 mm	114 mm	68 mm	BSPP	24
730	1"F	25 mm	128 mm	128 mm	90 mm	BSPP NPT	24
731	1"M	25 mm	110 mm	100 mm	68 mm	BSPP	24
830	1" 1/4 F	32 mm	128 mm	128 mm	90 mm	BSPP	24
930	1" 1/2 F	40 mm	145 mm	137 mm	90 mm	BSPP	12
1030	2" F	50 mm	180 mm	165 mm	120 mm	BSPP	6
1131	3" M	50 mm	180 mm	170 mm	120 mm	BSPP	6

PERDITA DI CARICO IN BAR E PORTATE IN LT/MIN
PRESSURE DROP IN BAR AND FLOW RATE IN L/MIN

1/2"F	bar	0,10	0,29	0,53	0,90	1,20																									
	psi	1,45	4,21	7,69	13,05	17,40																									
	l/min	16,7	33,3	50,0	66,7	83,3																									
3/4"F	bar		0,15	0,21	0,30	0,41	0,60	0,81	1,03																						
	psi		2,18	3,05	4,35	5,95	8,70	11,75	14,94																						
	l/min		33,3	50,0	66,7	83,3	100,0	116,7	133,3																						
3/4"M	bar		0,17	0,21	0,31	0,43	0,60	0,74	0,93	1,08																					
	psi		2,47	3,05	4,50	6,24	8,70	10,73	13,49	15,66																					
	l/min		33,3	50,0	66,7	83,3	100,0	116,7	133,3	150,0																					
1"F	bar				0,11	0,13	0,16	0,22	0,25	0,32	0,41	0,50	0,59	0,71	0,82	1,01															
	psi				1,60	1,89	2,32	3,19	3,63	4,64	5,95	7,25	8,56	10,30	11,89	14,65															
	l/min				66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	250,0															
1"M	bar			0,10	0,13	0,17	0,21	0,25	0,33	0,43	0,53	0,64	0,80	0,93	1,06																
	psi			1,45	1,89	2,47	3,05	3,63	4,79	6,24	7,69	9,28	11,60	13,49	15,37																
	l/min			50,0	66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3																
1 1/4"F	bar			0,10	0,13	0,16	0,20	0,23	0,31	0,35	0,43	0,52	0,62	0,73	0,83	0,94	1,05														
	psi			1,45	1,89	2,32	2,90	3,34	4,50	5,08	6,24	7,54	8,99	10,59	12,04	13,63	15,23														
	l/min			50,0	66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	250,0	266,7														
1 1/2"F	bar							0,11	0,13	0,15	0,16	0,21	0,24	0,28	0,33	0,39	0,44	0,52	0,61	0,70	0,74	0,92									
	psi							1,60	1,89	2,18	2,32	3,05	3,48	4,06	4,79	5,66	6,38	7,54	8,85	10,15	10,73	13,34									
	l/min							116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	250,0	266,7	283,3	300,0	316,7	333,3	366,7									
2"F	bar							0,1	0,11	0,12	0,13	0,14	0,15	0,16	0,18	0,2	0,21	0,23	0,25	0,27	0,29	0,31	0,34	0,42	0,57	0,61	0,72	0,91			
	psi							1,45	1,60	1,74	1,89	2,03	2,18	2,32	2,61	2,90	3,05	3,34	3,63	3,92	4,21	4,50	4,93	6,09	8,27	8,85	10,44	13,20			
	l/min							116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	250,0	266,7	283,3	300,0	316,7	333,3	366,7	400,0	466,7	533,3	550,0	600,0	666,7			
3"M	bar									0,1	0,11	0,12	0,13	0,14	0,15	0,16	0,17	0,19	0,2	0,21	0,21	0,23	0,24	0,3	0,35	0,36	0,42	0,52	0,63	0,78	0,82
	psi									1,45	1,60	1,74	1,89	2,03	2,18	2,32	2,47	2,76	2,90	3,05	3,05	3,34	3,48	4,35	5,08	5,22	6,09	7,54	9,14	11,31	11,89
	l/min									150,0	166,7	183,3	200,0	216,7	233,3	250,0	266,7	283,3	300,0	316,7	333,3	366,7	400,0	466,7	533,3	550,0	600,0	666,7	733,3	800,0	833,3
Portata Flow rate	m³/h	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	22	24	28	32	33	36	40	44	48	50
	l/min	16,7	33,3	50,0	66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3	250,0	266,7	283,3	300,0	316,7	333,3	366,7	400,0	466,7	533,3	550,0	600,0	666,7	733,3	800,0	833,3
	GPM	4,4	8,8	13,2	17,6	22,0	26,4	30,8	35,2	39,6	44,0	48,4	52,8	57,2	61,6	66,1	70,5	74,9	79,3	83,7	88,1	96,9	105,7	123,3	140,9	145,3	158,5	176,1	193,7	211,4	220,2

3ª SERIE CON FILETTO IN OTTONE / *3th SERIES WITH BRASS THREADS*

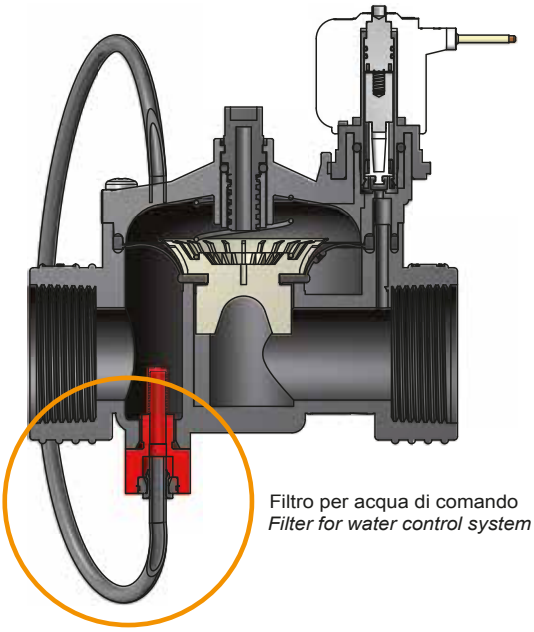


MODELLI / *MODELS*

Modello Model	Attacco Connection	Caratteristiche Characteristics	Diametro nominale Nominal diameter	Altezza mm Height mm	Lungh. mm Length mm	Largh. mm Width mm	Q.tà scatola Box q.ty
533	1/2 " F	NC, N B, NA (NO)	15 mm	110 mm	114 mm	68 mm	24
633	3/4 " F	NC, N B, NA (NO)	20 mm	110 mm	114 mm	68 mm	24
733	1"F	NC, N B, NA (NO)	25 mm	128 mm	128 mm	90 mm	24
833	1" 1/4 F	NC, N B, NA (NO)	32 mm	128 mm	128 mm	90 mm	24
933	1" 1/2 F	NC, N B, NA (NO)	40 mm	145 mm	137 mm	90 mm	12
1033	2" F	NC, N B, NA (NO)	50 mm	180 mm	165 mm	120 mm	6

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed* NA: Normalamente aperta / Normally Open NB: Bistabile / Latching

3° SERIE CIN FILTRO / *3th SERIES WITH FILTER*



Filtro per acqua di comando
Filter for water control system

MODELLI / *MODELS*

Modello Model	Attacco Connection	Caratteristiche Characteristics	Diametro nominale Nominal diameter	Altezza mm Height mm	Lungh. mm Length mm	Largh. mm Width mm	Q.tà scatola Box q.ty
7301xxNF	1" F	NC, NB, NA (NO)	25 mm	128 mm	128 mm	90 mm	24
7331xxNF	1"F - Ottone/Brass	NC, NB, NA (NO)	25 mm	128 mm	128 mm	90 mm	24
8301xxNF	1" 1/4 F	NC, NB, NA (NO)	32 mm	128 mm	128 mm	90 mm	24
8331xxNF	1" 1/4 F Ottone/Brass	NC, NB, NA (NO)	32 mm	128 mm	128 mm	90 mm	24
9301xxNF	1" 1/2 F	NC, NB, NA (NO)	40 mm	145 mm	137 mm	90 mm	12
9331xxNF	1" 1/2 F Ottone/Brass	NC, NB, NA (NO)	40 mm	145 mm	137 mm	90 mm	12
10301xxNF	2" F	NC, NB, NA (NO)	50 mm	180 mm	165 mm	120 mm	6
10331xxNF	2" F - Ottone/Brass	NC, NB, NA (NO)	50 mm	180 mm	165 mm	120 mm	6
11311xxNF	3" M	NC, NB, NA (NO)	50 mm	180 mm	170 mm	120 mm	6

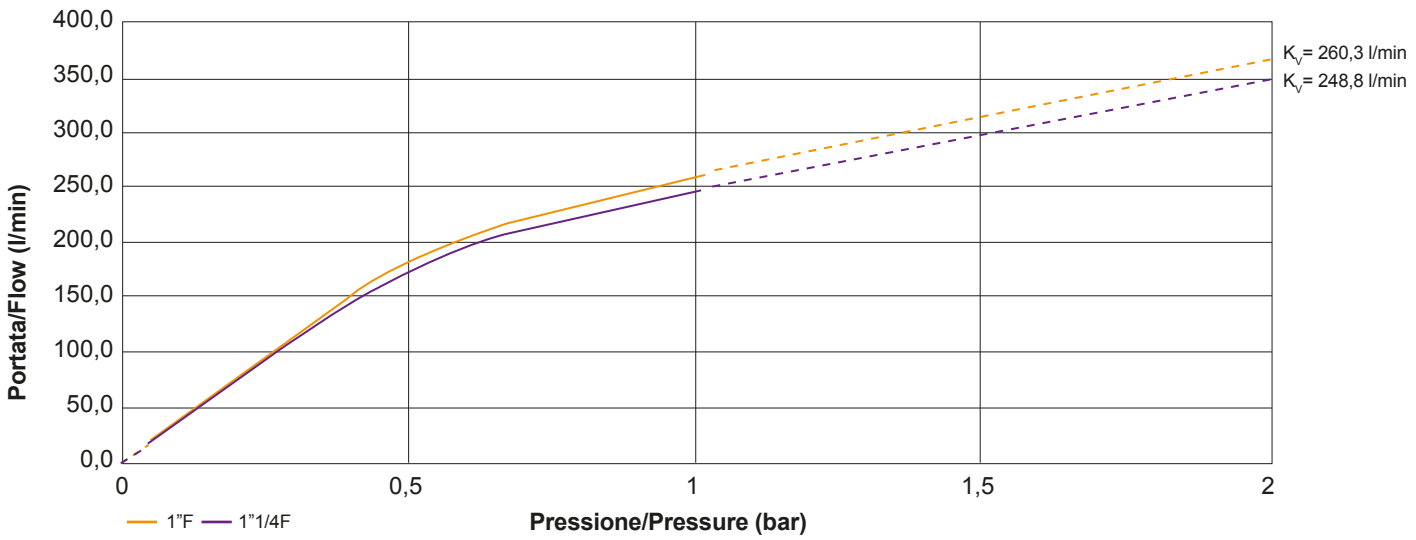
Legenda / *Legend* NC: Normalmente chiusa / *Normally closed* NA: Normalamente aperta / Normally Open NB: Bistabile / Latching

3° SERIE BASSA PRESSIONE / *3th SERIES LOW PRESSURE*

MODELLI / *MODELS*

Modello Model	Attacco Connection	Diametro nominale Nominal diameter	Altezza mm Height mm	Lungh. mm Length mm	Largh. mm Width mm	Q.tà scatola Box q.ty
7301A	1" F	25 mm	128 mm	128 mm	90 mm	24
7331A	1" F - Ottone/Brass	25 mm	128 mm	128 mm	90 mm	24
8301A	1 1/4" F	32 mm	128 mm	128 mm	90 mm	24
8331A	1 1/4" F - Ottone/Brass	32 mm	128 mm	128 mm	90 mm	24

CURVA DI PORTATA / *FLOW RATE*



5ª Serie
5th Series

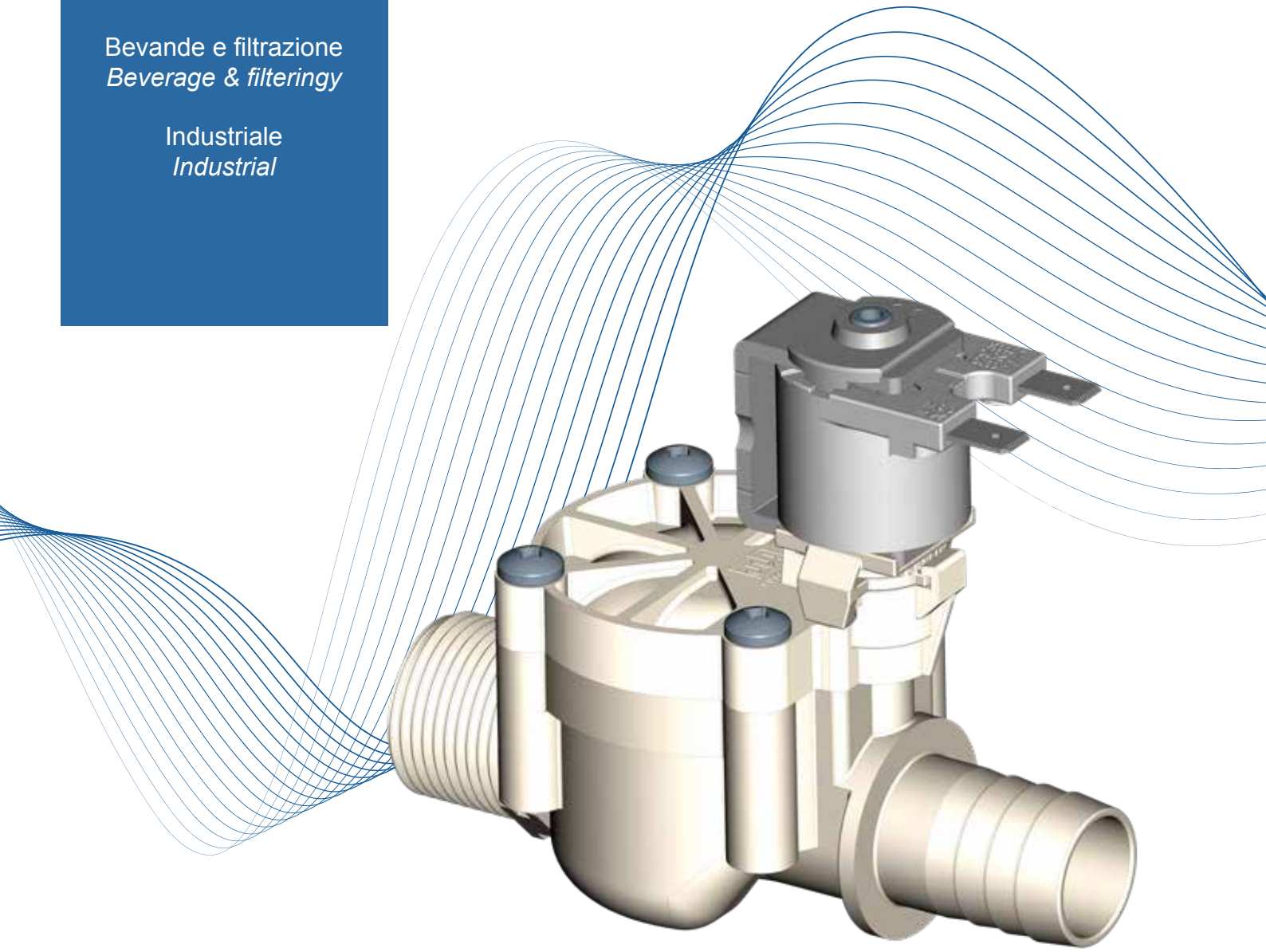
Applicazioni / *Applications*

Elettrodomestico
Household appliances

Medicale e riuniti dentali
Medical & dental units

Bevande e filtrazione
Beverage & filteringy

Industriale
Industrial



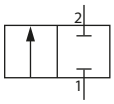
SPECIFICHE TECNICHE

- Corpo valvola: PA 66 30% FV
- Membrana: EPDM
- Nucleo: Acciaio Inox
- Bobine: Classe F (155°)
- Assemblaggio: Con viti, ispezionabile
- Pressione di esercizio: 0,2-10 bar
- Temp. ambiente: 60°C
- Temp. fluido: 90°C

TECHNICAL SPECIFICATIONS

- *Body valve: PA 66 30% GF*
- *Diaphragm: EPDM*
- *Core: Stainless steel*
- *Coil: F Class (155°)*
- *Assembly: Self-tapping screw*
- *Working pressure: 0,2-10 bar*
- *Room temperature: 60°C*
- *Fluid temperature: 90°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Dimensioni compatte / *Compact size*
- Gestione di grandi portate / *Management of large flows*
- Possibilità di installare filtro e check valve in ingresso
  Possibility to install filter and check valve in the inlet
- Disponibile uscita da ¾'' o PG 21,5 / *Available outlet from ¾" or Hose tail 21.5*
- Ideale per applicazioni in ambito medicale / *Ideal for medical applications*

CERTIFICAZIONI / *CERTIFICATION*

CE UK CA

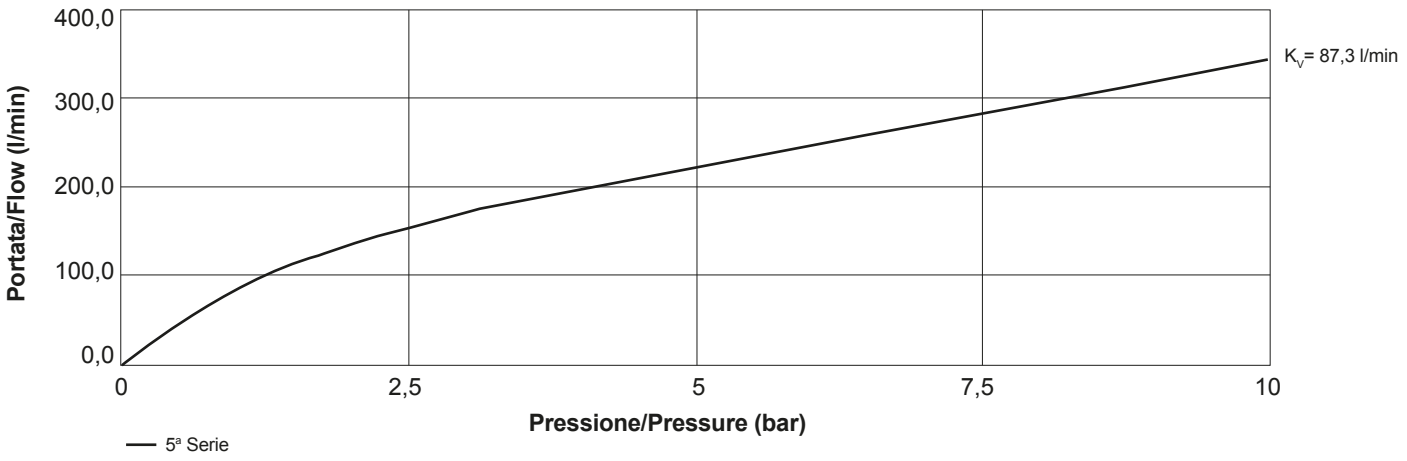
CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	da 0,2 a 10 bar	Working pressure	min 0,2 - max 10 bar
Temperatura fluido	Max 90° C	Fluid temperature	Max 90° C
Diametro di passaggio	17 mm	Orifice	17 mm
Comando	Normalmente chiuso (NC)	Control	Normally closed (NC)
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE		*ELECTRICAL CONNECTIONS*	
Ingresso	G 3/4" BSPP	Inlet	G 3/4" BSPP
Uscita	PG 21,5	NC Outlet	PG 21,5

Modello Model	IN	OUT	Diametro nominale Nominal diameter	Pressione di esercizio Working pressure
6516NC	G 3/4'' BSPP	G 3/4'' BSPP	17 mm	0,2 / 10 bar
6526NC	G 3/4'' BSPP	PG 21.5 /HC 21,5	17 mm	0,2 / 10 bar

Legenda / Key: PG = Portagomma / Hose tail

CURVA DI PORTATA / *FLOW RATE*



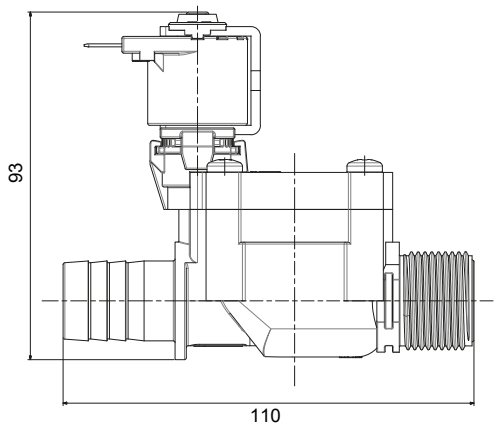
Codice progress. Process code	Tensione voltage	Frequenza Frequency	Potenza mant. Holding Power	Potenza di spunto In rush Power	Assorb. (mA) in mant. Holding Current	Assorb. (mA) in spunto In Rush Current	cosø	ED Duty cycle	Connessioni Faston cavi unipolari	Connessioni cavi bipolari	Approvazioni Approvals	NC	NA NO
1	24 V DC	=	6,3 W	/	265 mA	/	/	100%	F	/	/	✓	/
2	12 V DC	=	5,7 W	/	460 mA	/	/	100%	F	/	/	✓	/
3	24V AC	50 HZ 60 HZ	4,8 VA 3,6 VA	8,1 VA 7,4 VA	180 mA 156 mA	260 mA 230 mA	0,62 0,61	100%	F	/	/	✓	/
4	12 V AC	50 HZ 60 HZ	4,8 VA 3,8 VA	7,4 VA 7,0 VA	370 mA 320 mA	530 mA 460 mA	0,62 0,62	100%	F	/	/	✓	/
5	110V AC	50 HZ 60 HZ	4,5 VA 3,9 VA	8,6 VA 8 VA	40,5 mA 36 mA	57 mA 52 mA	0,65 0,63	100%	F	/	/	✓	/
6	230V AC	50 HZ 60 HZ	5,4 VA 4,7 VA	11 VA 9,8 VA	23 mA 20,5 mA	35 mA 30,5 mA	0,68 0,67	100%	F	/	/	✓	

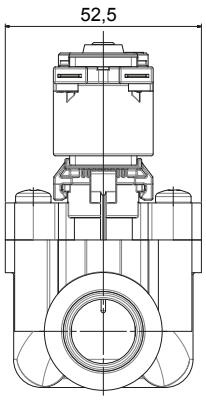
5ª SERIE CON PG / 5th SERIES WITH HOSE TAIL

M.O.Q.:
48 pcs

IN:
G 3/4" BSPP

OUT:
PG 21,5



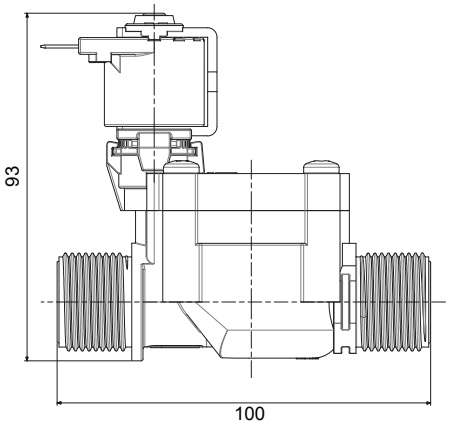


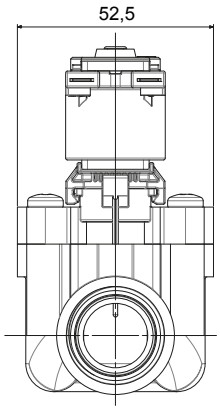
5ª SERIE CON FILETTO / 5th SERIES WITH THREAD

M.O.Q.:
48 pcs

IN:
G 3/4" BSPP

OUT:
G 3/4" BSPP





6ª Serie “Connect’eedy”

6th Series “Connect’eedy”

Applicazioni / *Applications*

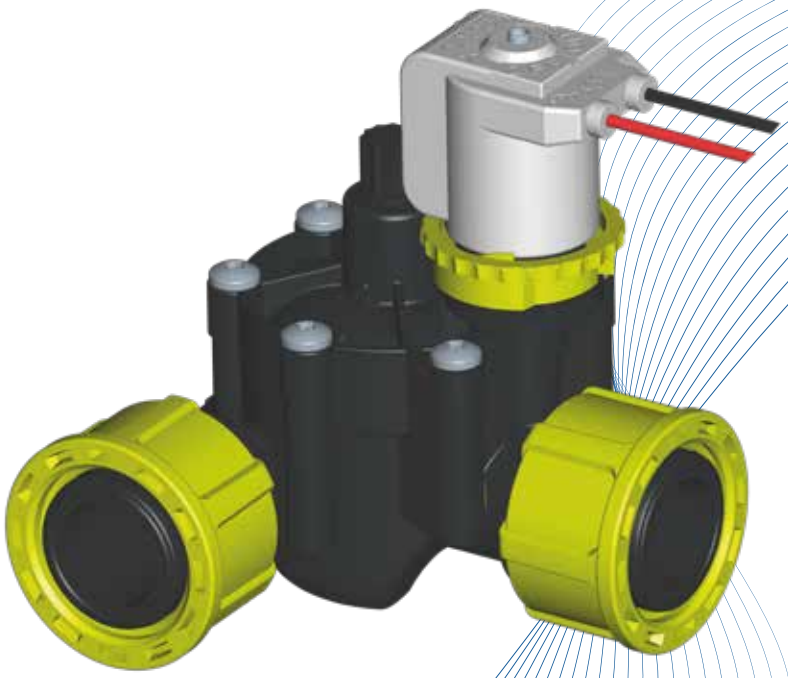
Irrigazione
Irrigation

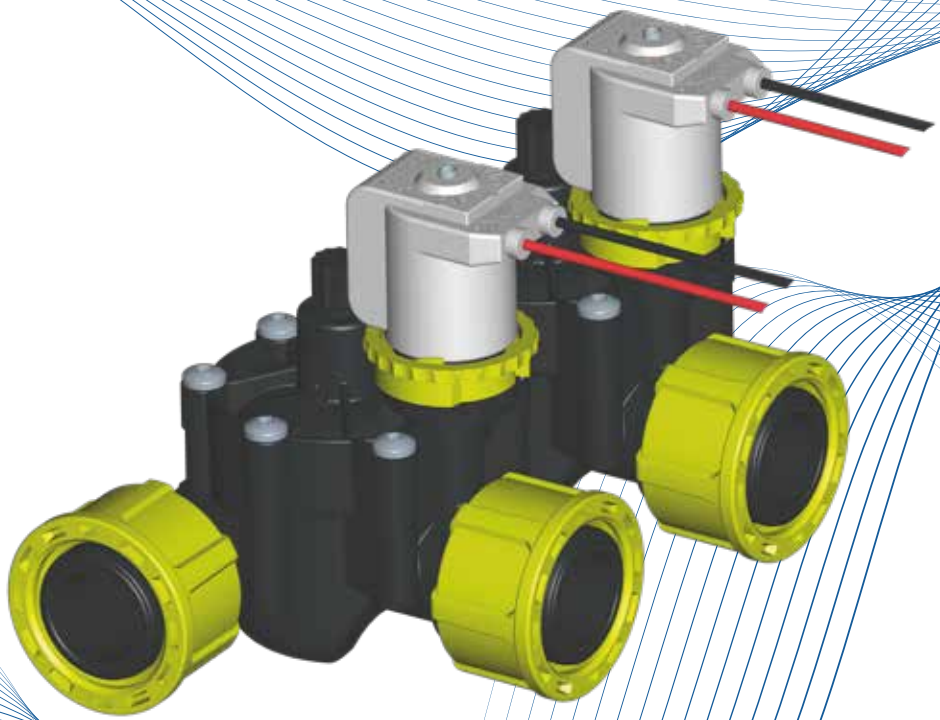
Sanitario
Sanitary

Bevande e filtrazione
Beverage & filteringy

Industriale
Industrial

Medicale e riuniti dentali
Medical & dental units





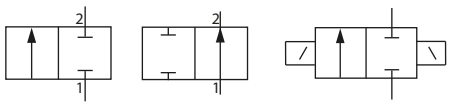
SPECIFICHE TECNICHE

- Corpo valvola: PA 66 30% FV
- Membrana: NBR (buna)
- Nucleo: Acciaio Inox
- Bobine: Acciaio Inox
- Assemblaggio: Con viti, ispezionabile
- Pressione di esercizio: 0,5-10 bar
- Temp. ambiente: 0-60%
- Temp. fluido: 0-60%

TECHNICAL SPECIFICATIONS

- *Body valve: PA 66 30% GF*
- *Diaphragm: NBR (buna)*
- *Core: Stainless steel*
- *Spring: Stainless steel*
- *Assembly: With screws, serviceable*
- *Working pressure: 0,5-10 bar*
- *Room temperature: 0-60°C*
- *Fluid temperature: 0-60°C*

ICONE / *ICONS*



PUNTI DI FORZA / *HIGHLIGHTS*

- Valvola modulare / *Modular valve*
- Dimensioni compatte / *Compact size*
- Facilità di assemblaggio / *Easy installation with yellow ring system*
- Sistema di apertura manuale a baionetta / *Manual bayonet opening system*
- Disponibile nella versione NC, NA o bistabile / *Available in NC, NO or latching version*

CERTIFICAZIONI / *CERTIFICATION*

CE UK CA

6ª Serie “Connect’eedy”

6th Series “Connect’eedy”

CARATTERISTICHE DI LAVORO		*WORKING SPECIFICATIONS*	
Pressione di esercizio	0,5 - 10 bar	Working pressure	0,5 - 10 bar
Temp. ambiente	0-60° C	Room temperature	0-60° C
Temperatura fluido	0-60° C	Fluid temperature	0-60° C
Diametro di passaggio	20 mm	Orifice	20 mm
Comando	NC, NO, Bistabile	Control	NC; NO; Latching
Direzione del fluido	Unidirezionale	Fluid direction	Unidirectional

CONNESSIONI ELETTRICHE		*ELECTRICAL CONNECTIONS*	
Conn. Elettriche 1	Cavi unipolari 600 mm	Electric connect 1	Unipolar cables 600 mm
Conn. Elettriche 2	Cavi bipolari max 5000 mm	Electric connect 2	Bipolar cables max 5000 mm
Conn. Elettriche 3	Faston maschio 6,3x0,8 mm	Electric connect 3	Male Faston 6,3x0,8 mm

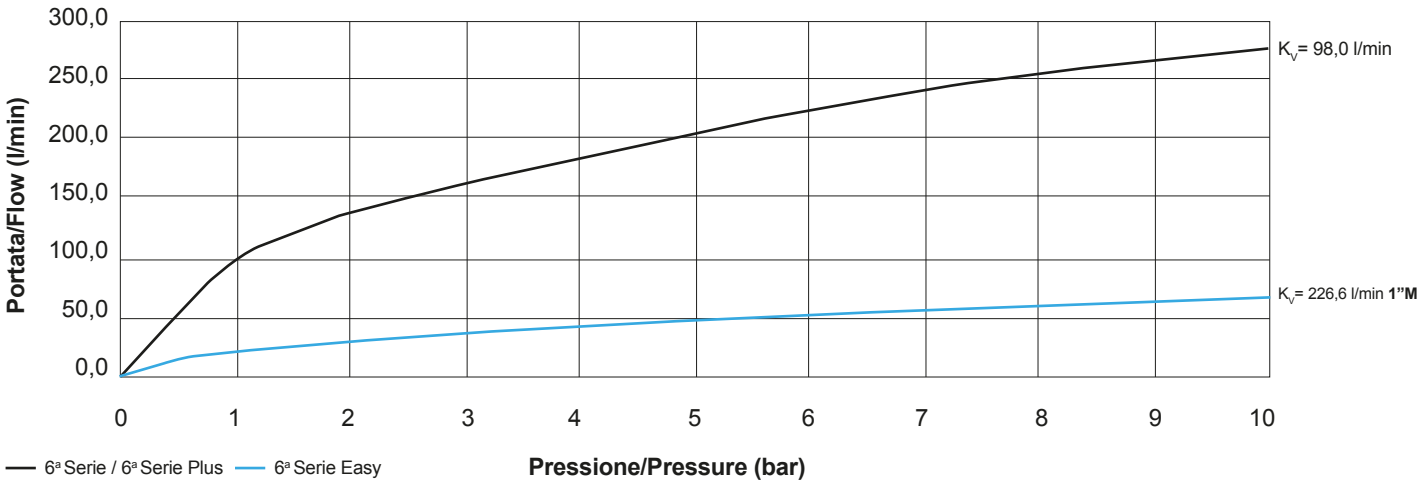
CONNESSIONI ELETTRICHE		*ELECTRICAL CONNECTIONS*	
Ingresso	1” BSPP Ghiera F / 1”M	Inlet	1” BSPP Swivel F / 1”M
Uscita	1” BSPP Ghiera F	Outlet	1” BSPP Swivel F

MODELLI / *MODELS*

Modello Model	Connessione elettrica Electric connection	Attacco Connection	Caratteristiche Characteristics	Q.tà scatola Box q.ty
-7601	cavi/cables	1”F BSPP / 1”M	NC, NB, NA (NO)	24
C25F0000	calotta/shell	1”F nero/black	NC, NB, NA (NO)	24
C25F1000	tappo/cap	1”M nero/black	NC, NB, NA (NO)	24
769	1” F BSPP	1” F BSPP	NC, NB, NA (NO)	24
7610	1” M	1” F BSPP	NC, NB, NA (NO)	24
7611	1” F BSPP	1” M	NC, NB, NA (NO)	24
-7681	cavi/cables	1”F BSPP / 1”M	NC, NB, NA (NO)	12
HC25F1000	calotta/shell	1” F nero/black	/	24
HC25F2000	tappo/cap	1” M nero/black	/	24

Legenda / *Legend* NC: Normalmente chiusa / *Normally closed* NA: Normalamente aperta / Normally Open NB: Bistabile / Latching

CURVA DI PORTATA / *FLOW RATE*



PERDITA DI CARICO IN BAR E PORTATE IN LT/MIN / *PRESSURE DROP IN BAR AND FLOW RATE IN L/MIN*

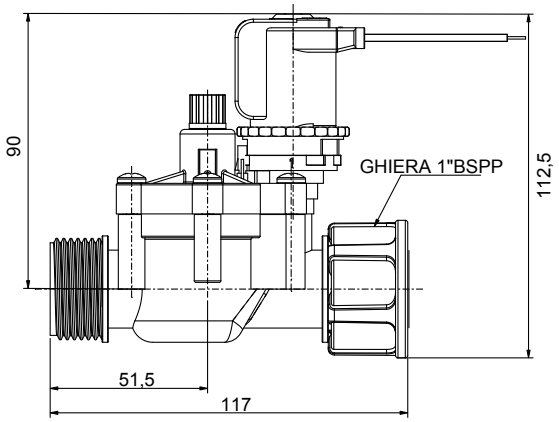
1"	bar	0,10	0,20	0,30	0,40	0,50	0,60	0,70	0,80	0,90	1,00	1,10	1,20
	psi	1,45	2,90	4,35	5,80	7,25	8,70	10,15	11,60	13,05	14,50	15,95	17,40
	l/min	16,1	40,8	55,2	65,4	73,4	79,8	85,3	90,1	94,3	95,0	105,4	109,7
1”M	bar	0,10	0,13	0,17	0,21	0,25	0,33	0,43	0,53	0,64	0,80	0,93	1,06
	psi	1,45	1,89	2,47	3,05	3,63	4,79	6,24	7,69	9,28	11,60	13,49	15,37
	l/min	50,0	66,7	83,3	100,0	116,7	133,3	150,0	166,7	183,3	200,0	216,7	233,3

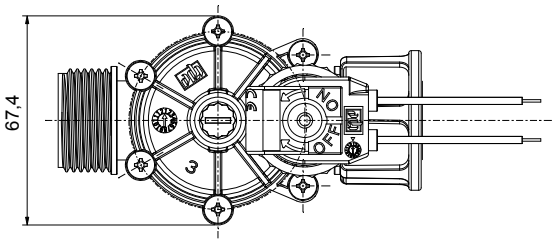
7610

M.O.Q.:
24 pcs

IN:
1” M

OUT:
1” F BSPP



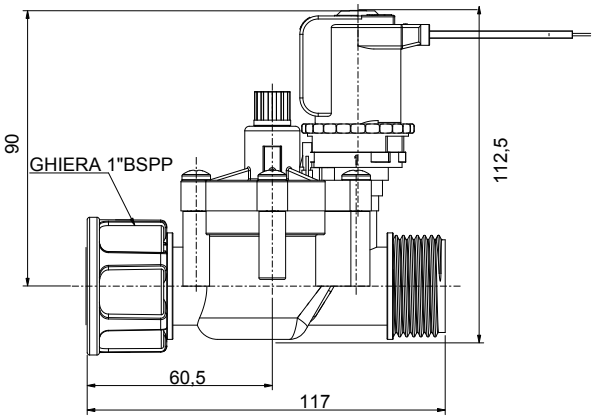


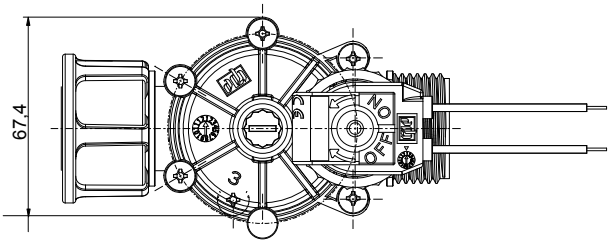
7611

M.O.Q.:
24 pcs

IN:
1” F BSPP

OUT:
1” M



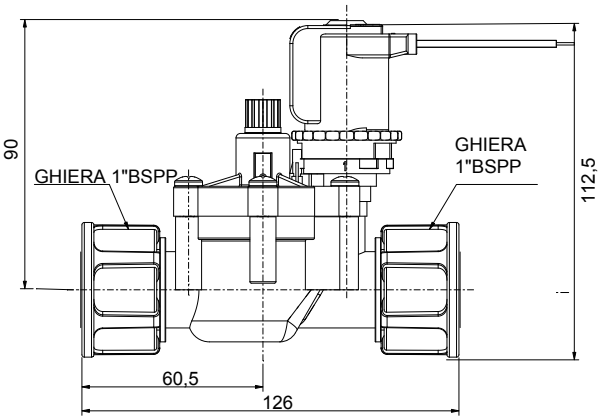


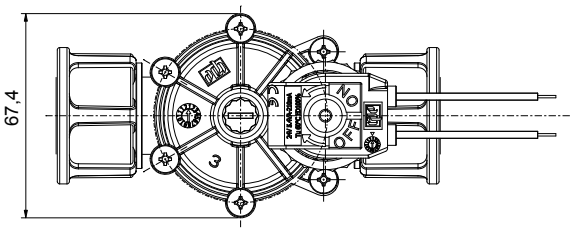
769

M.O.Q.:
24 pcs

IN:
1” F

OUT:
1” F BSPP



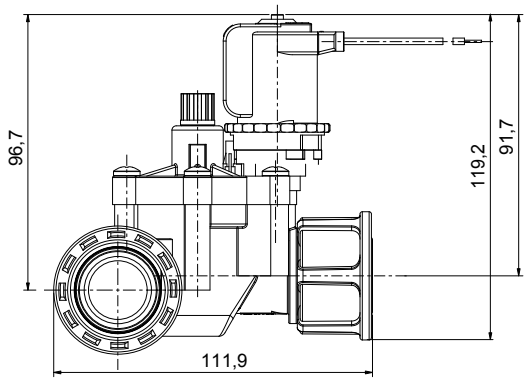


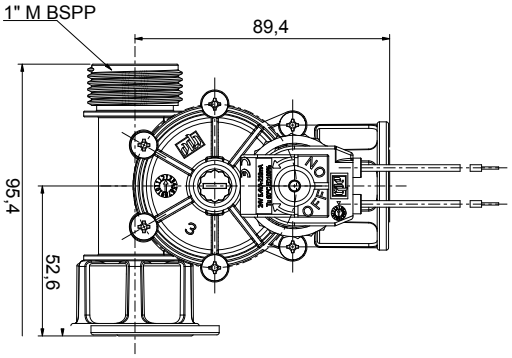
CORPO VALVOLA -7601 / *VALVE BODY 7601*

M.O.Q.:
24 pcs

IN:
1”F / 1”M

OUT:
1”M



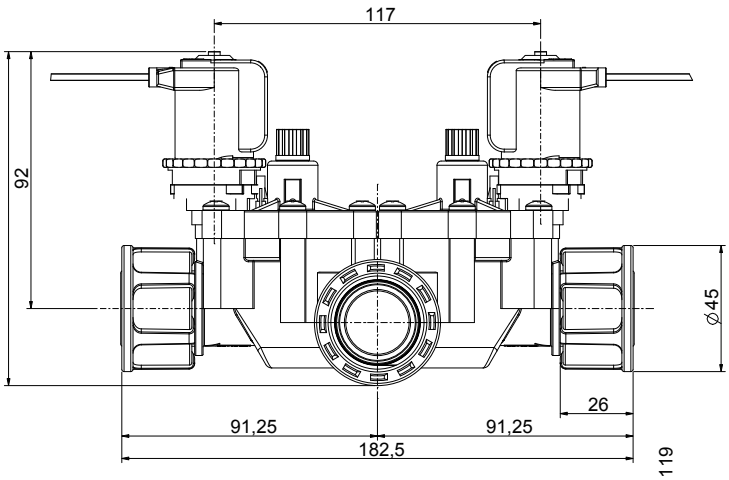


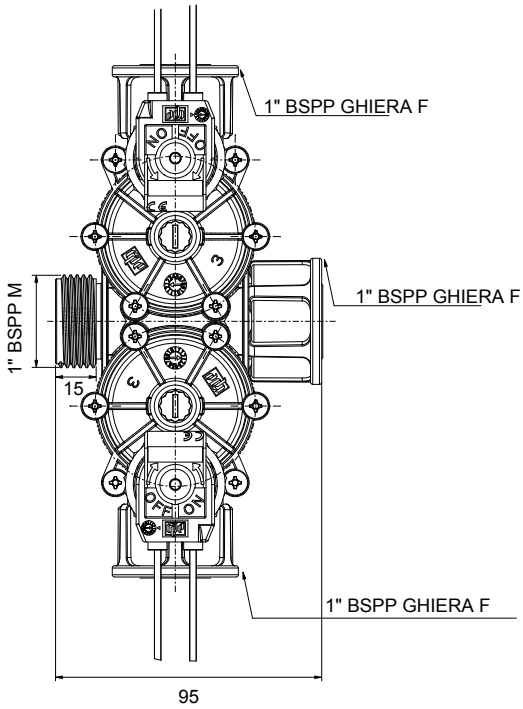
CORPO VALVOLA -7681 / *VALVE BODY -7681*

M.O.Q.:
12 pcs

IN:
1” M / 1“ F

OUT:
1” F





Glossario
Glossary

Terminologia tecnica
Technical terminology

CORPO VALVOLA
Parte principale dell'elettrovalvola con gli attacchi, le sedi, gli orifizi o fori di passaggio. Nella quasi totalità della produzione RPE i corpi sono ricavati in materiale termoplastico.

VALVE BODY
This is the main part of the solenoid valve where connections, seats, orifices or working orifices are located. Most of RPE solenoid valve bodies are made of thermoplastic material.

NUCLEO FISSO
Opera da fermo per il nucleo mobile ed ha la funzione di chiudere il flusso magnetico. Normalmente è in acciaio inox magnetico.

FIXED CORE
It is fixed and completes the magnetic circuit. It is generally made of magnetic stainless steel.

ANELLO DI SFASAMENTO (O DI CORTO CIRCUITO)
Normalmente in rame, viene inserito sulla superficie del nucleo fisso per evitare le vibrazioni in caso di bobine alimentate in corrente alternata.

PHASE DISPLACEMENT RING (OR SHADING RING)
This is generally made of copper and is mounted onto the fixed core surface to prevent oscillations in case of a.c.-fed coils.

TUBO DI GUIDA (IMBUTINO)
Normalmente in nylon, serve da guida per il nucleo mobile.Generalmente viene assemblato con il nucleo fisso e con la ghiera.

ARMATURE TUBE
Generally made of nylon, it is a guide for the armature. It is generally assembled with the fixed core and the thread.

NUCLEO MOBILE
In acciaio inox, magnetico, viene azionato dalla bobina e scorre all'interno del tubo di guida.

ARMATURE
Made of stainless steel, it is magnetic and coil-operated. It slides inside the armature tube.

MOLLA PER NUCLEO MOBILE (O MOLLA DI RINVIO)
Serve per tenere posizionato il nucleo mobile e per riportarlo in posizione dopo l'azione dell'elettromagnete.

ARMATURE SPRING
It is used to keep the armature in position and bring it back after the electromagnet action.

PUNTALINO
Montato normalmente sul nucleo mobile serve per chiudere l'orifizio della valvola o del pilota.

CORE PIN
It is generally mounted onto the armature to close the valve or the pilot orifice.

MEMBRANA
Nel caso di elettrovalvole servocomandate funge da servocomando che, azionato per mezzo di un pilota a elettromagnete e dalla pressione, apre o chiude l'orifizio principale del corpo valvola.

DIAPHRAGM
In the servo-controlled solenoid valves, it is used as a servocontrol which opens or closes the main orifice of the valve body when operated by an electromagnet pilot and by pressure.

INSERTO
Di supporto alla membrana bilancia la pressione di apertura e chiusura attraverso i fori di carico e scarico.

INSERT
Used as a supporting element for the diaphragm, it balances the opening and closing pressure through the filling and discharge pilot orifices.

COPERCHIO
Serve per chiudere l'elettrovalvola e mantenere in posizione la membrana.

VALVE BODY TOP COVER
It is used to close the solenoid valve and keep the diaphragm in position.

PILOTA O BOBINA
Parte elettrica costituita da un avvolgimento con filo di rame (solenoide) che, completo di giogo magnetico (armatura), quando viene attraversato dalla corrente elettrica, genera un flusso magnetico che attrae il nucleo mobile.

PILOT OR COIL
This is the electrical part and is composed of a coil, fixed core and C-bracket. When the coil is energised it produces a magnetic field that moves the armature.

CV FATTORE DI PORTATA
È la quantità di acqua da +5 °C a +30 °C che passa attraverso l'elettrovalvola con una caduta di pressione di 1 bar (100 KPa - 0,1 MPa) espressa in L/min.

CV FLOW RATE FACTOR
This is the amount of water (within the temperature range of +5 to +30 °C) passing through the solenoid valve with 1 bar pressure drop (100 KPa - 0,1 MPa) in L/min.

RACCORDO
Secondo i settori di applicazione delle elettrovalvole le tipologie di raccordo possono essere:
- filettato in pollici; Maschio/Femmina (BSP, NPT)
- Innesto a baionetta
- Attacco rapido (PF)
- Innesto con codolo
- Innesto con portagomma (PG)
- Flangiato
- Forchetta

PIPE FITTING
Depending on the solenoid valve type there are several variations of connections available:
- *threaded pipe fitting with threads in inches; Male/Female (BSP, NPT)*
- *Bayonet connection*
- *Quick connection (PF)*
- *Spigot connection*
- *Hose tail connection (PG)*
- *Flanged pipe fitting*
- *Fork*

DIAMETRO NOMINALE (DN)
Diametro principale di passaggio; orifizio - diam. nominale.

ORIFICE (ND)
Main diameter; orifice – nominal diameter.

PRESSIONE MINIMA DI FUNZIONAMENTO
È la più bassa pressione differenziale richiesta per il funzionamento, espressa in bar. Nelle elettrovalvole ad azione diretta non è richiesta una minima pressione. Nelle elettrovalvole servocomandate è richiesta la minima pressione differenziale indicata nelle tabelle dati delle elettrovalvole.

MINIMUM OPERATING PRESSURE
This is the lowest differential pressure required for operation and it is expressed in bars.
The direct acting valves do not need a minimum pressure, while in the servo-controlled solenoid valves the minimum differential pressure required is shown in the solenoid valves datasheets.

MASSIMA PRESSIONE DIFFERENZIALE
È la più alta pressione differenziale di funzionamento con 90% della tensione nominale (-10% Vn) applicata alla bobina (per c.a.) e con 95% della tensione nominale (-5% Vn) (per c.c.)

MAXIMUM DIFFERENTIAL PRESSURE
This is the highest differential operating pressure with 90% rated voltage (-10% Vn) applied to the coil (for a.c.) and 95% rated voltage (-5% Vn) (for d.c.)

PN - PRESSIONE NOMINALE O PRESSIONE STATICA
È la massima pressione statica che si può applicare all'elettrovalvola per controllare l'ermeticità delle tenute meccaniche (filettature, saldature) e le resistenze meccaniche dei materiali. È una pressione che si consiglia di immettere contemporaneamente da tutti gli attacchi per evitare di danneggiare gli organi interni, in particolare le tenute.

NP – NOMINAL PRESSURE OR STATIC PRESSURE
This is the maximum static pressure that can be applied to the solenoid valve to check tightness of mechanical seals (threads, welds) and mechanical resistance of materials. We suggest that this pressure is applied simultaneously from all connections to avoid damage to internal components, seals in particular.

MASSIMA PRESSIONE DI LAVORO
È la pressione di linea o dell'impianto alla quale la valvola può essere assoggettata con sicurezza.

MAXIMUM WORKING PRESSURE
This is the line or system pressure which can be safely applied to the valve.

POTENZA
È la potenza nominale a regime dell'elettromagnete espressa in W o VA.

POWER
This is the electromagnet rated capacity, which is expressed in Watt or VA.

NBR (NITRIL BUTADIENE RUBBER)
Elastomero sintetico di qualità standard per fluidi neutri come aria, acqua ed oli con temperature di servizio da -10 °C a +90 °C.

NBR (NITRILE BUTADIENE RUBBER)
Standard quality synthetic elastomer for neutral fluids such as air, water and oils at working temperatures between -10 °C to +90 °C.

EPDM (ETILENE PROPILENE)
Elastomero sintetico adatto per acqua calda e vapore con temperature di servizio da -10 °C a +140 °C.

EPDM (ETHYLENE PROPYLENE)
A synthetic elastomer suitable for hot water and steam at working temperatures between -10 °C to +140 °C.

FPM (VITON)
Elastomero fluorurato adatto per olii, gas combustibili, benzine, solventi. Temperature di servizio da -10 °C a +140 °C.

FPM (VITON)
Fluoridated elastomer suitable for oils, combustible gases, fuels, solvents. Working temperatures from -10 °C to + 140 °C.

Classificazione delle elettrovalvole
Solenoid valves classification

ELETTROVALVOLE A 2 VIE (2 POSIZIONI)

Hanno due connessioni (entrata e uscita) e un orifizio di passaggio.
Si suddividono in:
- Normalmente chiuse (NC): si aprono quando viene eccitato l'elettromagnete (fig. 1).
- Normalmente aperte (NA): si chiudono quando viene eccitato l'elettromagnete (fig. 2).
- Bistabili: fornendo un impulso positivo la valvola si apre, fornendo un impulso negativo la valvola si chiude.

ELETTROVALVOLE A 3 VIE (2 POSIZIONI)

Hanno tre connessioni e due orifizi (fori) di passaggio, uno sempre aperto, l'altro sempre chiuso.
Si suddividono in:
- Normalmente chiuse (NC):
  2 = entrata; 1 = utilizzo; 0 = scarico (fig. 3)
- Normalmente aperte (NA):
  0 = entrata; 1 = utilizzo; 2 = scarico (fig. 4)
- Deviatrici:
  1 = entrata; 0 = utilizzo; 2 = utilizzo (fig. 5)
- Commutatrici:
  0 = entrata; 2 = entrata; 1 = utilizzo (fig. 6)
- Universali: possono avere le quattro funzioni sopra descritte (fig. 7)

TEMPI DI RISPOSTA

Dipendono dai seguenti fattori:
tipo di corrente (c.a. – c.c.), fluido trattato, viscosità, tipo di funzionamento, dimensioni dell'elettrovalvola.
Per la versione ad azione diretta (2 o 3 vie) e piccoli diametri (sino a circa 3 mm), si possono considerare nell'ordine di qualche decina di millisecondi.

2-WAY SOLENOID VALVES (2 POSITIONS)

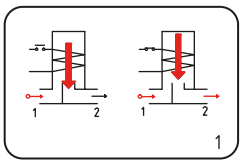
They have two connections (inlet and outlet) and an orifice.
Are of three types:
- *Normally closed (NC): the valve opens when the electromagnet is energized (fig. 1).*
- *Normally open (NO): the valve closes when the electromagnet is energized (fig. 2).*
- *Latching: the valve opens when a positive pulse is sent, the valve closes when a negative pulse is sent.*

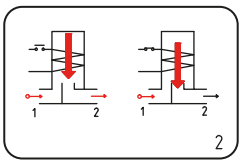
3-WAY SOLENOID VALVES (2 POSITIONS)

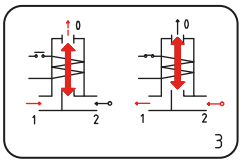
They have three connections and two orifices, one always open and one always closed, and are divided in:
- *Normally closed (NC):*
  2 = inlet; 1 = user; 0 = discharge (fig. 3)
- *Normally open (NO):*
  0 = inlet; 1 = user; 2 = discharge (fig. 4)
- *Diverter valves:*
  1 = inlet; 0 = user; 2 = user (fig. 5)
- *Shuttle valves:*
  0 = inlet; 2 = inlet; 1 = user (fig. 6)
- *Universal valves: they can have the four functions described above (fig. 7)*

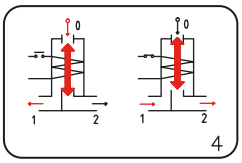
RESPONSE TIME

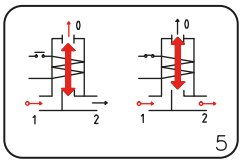
Depends on the following factors:
type of current (a.c. – d.c.), fluid used, viscosity, type of operation, size of the solenoid valve.
For direct-acting solenoid valves (2 or 3-way) and small diameters up to 3 mm, the response time is about ten milliseconds.

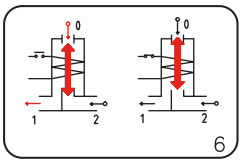


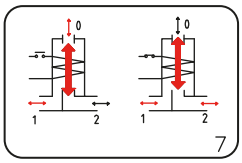












Litri/Liter →	GAL →	m3
0	0.000	0,000
1	0.264	0,001
2	0.528	0,002
3	0.793	0,003
4	1.060	0,004
5	1.320	0,005
6	1.590	0,006
7	1.850	0,007
8	2.110	0,008
9	2.380	0,009
10	2.640	0,010
15	3.960	0,015
20	5.280	0,020
25	6.600	0,025
30	7.930	0,030
35	9.250	0,035
40	10.600	0,040
45	11.900	0,045
50	13.200	0,050
55	14.500	0,055
60	15.900	0,060
65	17.200	0,065
70	18.500	0,070
75	19.800	0,075
80	21.100	0,080
85	22.500	0,085
90	23.800	0,090
95 ←	25.100 ←	0,095
100	26.400	0,100
Litri/Liter →	**GAL →**	**m3**

Bar	Mpa	PSI
0,5	0,05	7.25
1,0	0,10	14.50
1,5	0,15	21.76
2,0	0,20	29.01
2,5	0,25	36.26
3,0	0,30	43.51
3,5	0,35	50.76
4,0	0,40	58.02
4,5	0,45	65.27
5,0	0,50	72.52
6,0	0,60	87.02
7,0	0,70	101.53
8,0	0,80	116.03
9,0	0,90	130.53
10,0	1,00	145.04
11,0	1,10	159.54
12,0	1,20	174.05
13,0	1,30	188.55
14,0	1.40	203.06
15,0	1,50	217.56
Bar	**Mpa**	**PSI**

Celsius (°C) ↔	Fahrenheit (°F)
0	32
5	41
10	50
15	59
20	68
25	77
30	86
35	95
40	104
45	113
50	122
55	131
60	140
65	149
70	158
75	167
80	176
85	185
90	194
95	203
100	212
105	221
110	230
115	239
120	248
125	257
130	266
135	275
140	284
145	293
150	302
155	311
160	320
165	329
170	338
175	347
180	356
185 ↔	365
190	374
195	383
200	392
Celsius (°C)	**Fahrenheit (°F)**

Tabella materiali
Materials table

Tipo Type	Sigla Abbreviation	Nome tecnico Technical name	Nome comune Generally called
Plastica Plastic	PA 66	Poliammide 6,6 - 30% FV / Polyamide 6,6 - 30% GF	Nylon
	PC	Policarbonato / Polycarbonate	
	PET	Polietilene tereftalato / Polyethylene terephthalate	
	POM	Poliossimetilene / Polyoxymethylene	Acetalica / Acetal
	PPA	Poliammide semi-aromatica Semi-aromatic polyamide	
	PPH	Polipropilene / Polypropylene	
	PPS	Solfuro di polifenilene / Polyphenylene sulfide	
	PPSU	Polifenilensulfone / Polyphenylensulphone	
	PSU	Polisulfone / Polysulfone	
	PTFE	Politetrafluoroetilene / Polytetrafluoroethylene	Teflon
Gomma Rubber	LSR	Silicone liquido / Liquid silicone rubber	
	NBR	Gomma nera naturale / Natural black rubber	
	EPDM	Gomma etilene propilene Ethylene propylene rubber	
	FPM	Gomma fluorocarbonica / Fluorocarbon rubber	Viton

Tabella di compatibilità
Compatibility chart

	NBR	EPDM	FPM (viton)	LSR
Acetato di etile / *Ethyl acetate*				✓
Acetilene / Acetylene		✓	✓	✓
Aceto / Vinegar		✓		✓
Acetone / Acetone				
Acqua calcarea / Hard water	✓	✓	✓	✓
Acqua calda < 75° C / Hot water < 75° C	✓	✓	✓	✓
Acqua calda e vapore < 140° C / Hot water and steam < 140° C		✓		
Acqua con glicole / Water with glycol			✓	
Acqua deionizzata / De-ionised water	✓	✓	✓	✓
Acqua demineralizzata / De-mineralised water	✓	✓	✓	✓
Acqua ossigenata / Hydrogen dioxide			✓	
Acqua saponata / Soapy water	✓		✓	✓
Anidride carbonica (liquido) / Carbon dioxide (liquid)				✓
Anidride carbonica secca (gas) / Dry carbon dioxide (gas)	✓	✓	✓	✓
Argo / Argon		✓	✓	
Azoto / Nitrogen	✓	✓	✓	
Benzina / Petrol			✓	
Benzolo / Benzol				
Butano / Butane			✓	
Cloroformio / Chlioroform				
Cloruro di etile / Ethyl cloride			✓	
Cloururo di metile / Methyl cloride				
Elio / Helium	✓		✓	
Eptano / Heptane	✓		✓	
Esano / Hexane	✓		✓	
Etano / Ethane	✓		✓	
Etanolo / Ethanol				
Formaldeide / Formaldehyde	✓	✓	✓	✓
Freon / Freon				
Gas naturale / Natural gas	✓		✓	
Gasolio / Fuel oil	✓		✓	
Glicerina / Glycerine	✓		✓	✓
Glicole etilenico / Ethylene glycol	✓	✓	✓	✓
Idrogeno / Hydrogen			✓	
Isobutano / Isobuutane	✓		✓	
Isopentano / Iaopentane	✓		✓	
Metano / Methanol	✓		✓	
Metanolo/ Methanol		✓		
Monossido di calcio / Calcium monoxide	✓	✓	✓	
Neon / Neon	✓		✓	
Nitrobenzolo / Nitrobenzene				
Olio minerale / Mineral oil	✓		✓	
Ossigeno / Oxygen	✓		✓	✓
Solfuro di carbonio / Carbon disulphide				
Toluolo / Toluene			✓	
Tricloroetilene secco / Trichlorethylene dry			✓	
Xilolo / Xilol			✓	

Leggenda / Key ✓= compatibile / compatible

La presente tabella fornisce soltanto indiczioni di carattere generale in merito alla compatibilità tra determinati fluidi e materiali (NBR - EPDM - FPM - LSR)
This table provides general guidance (information) on the compatibility of certain fluids and materials (NBR - EPDM - FPM - LSR)

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